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APPENDIX 2.1 Overview of the Jebel Haicha sections including the location of each individual log. 27 log sheets have been produces, and are added to the following pages.

(i) indicates stratigraphic unit from which palaeo-current directions have been determined as used in section 6.2 of this paper.

Jebel Haricha North

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**APPENDIX 2.2** Overview of the Mahdouma sections including the location of each individual log. 3 log sheets have been produces, and are added to the following pages.



| Section  | Height  | Picture   | Species                      | Environment                                                                              |
|----------|---------|-----------|------------------------------|------------------------------------------------------------------------------------------|
| Mahdouma |         | DSC_0081  | Pactinidae indet.            | Marine - (in-situ)                                                                       |
|          |         |           |                              |                                                                                          |
| HA       | 6 m     | 2109_02   | Pectinidae indet.            | Marine -                                                                                 |
| HA       | 72 m    | DSC_127   | ?Lutraria indet.             | Marine – Lutraria – burrows in mixed soft substrata, from the lower shore to about 100 m |
| HA       | 78 m    | 2509_02   | Lutraria or Tellinidae idet. | Marine – "                                                                               |
|          |         |           |                              | Marine – Tellinidae indet. Common on the low shore                                       |
| HA       | ~ 90 m  | DSC_0132  | ?Corals or bryozoans         | Bryozoans – genergally in tropical waters at depths less than 100 m                      |
| HA       | ~ 90 m  | 2509_03   | ?Amussium cristatum          | Marine – Proximal and distal platform settings                                           |
| HA       | ~ 100 m | 2509_05   | ?Lagomare                    |                                                                                          |
| HA       | ~ 100 m | 2509_06   | Echinoderm                   | Marine -                                                                                 |
| HA       | ~ 100 m | 2509_09   | ?Abra spec.                  | Marine - (in-situ) Depths down to 200 m (prefers very fine sediment).                    |
| HA       | 120 m   | DSC_0136  | Uncertain                    |                                                                                          |
| HA       | 130 m   | 2509_10   | Amussium cristatum           | Marine – Proximal and distal platform settings                                           |
| HC       | 2 m     | 2809_01   | ?Pectinidae indet.           | Marine -                                                                                 |
| HC       | 2.5 m   | 2809_02   | Pecten ?Jacobaeus            | Marine – Below the littoral zone                                                         |
| HR       | 1 m     | 3009_01   | Echinoderm fragment          |                                                                                          |
| HR       | 1 m     | 3009_01.1 | Echinoderm fragment          |                                                                                          |
| HR       | 1 m     | 3009_01.3 | Ficus sp.                    | Marine – All marine habitats, most are benthic                                           |
| HR       | 1 m     | 3009_01.4 | Ostrea spec.                 | Marine - Generally in the intertidal zone                                                |
| HR       | 1 m     | 3009_01.5 | Amussium cristatum           | Marine – Proximal and distal platform settings                                           |
| HS       | ~ 100 m | 0510_01   | ?Corraline algae             | Marine – Photic zone, up to 270 m water depth                                            |

**APPENDIX 3** Overview of the fossils found in both fieldwork areas. *NB; The fossils were not only found in the chronologic height indicated in this table, this height is the location where they were examined. Furthermore, as indicated earlier the section code starting with an H stands for the Jebel Haricha section.* 



**APPENDIX 4.1** Results of the calculated grain-size  $\phi$  values for section **JH-S**, plotted respectively; Graphic mean, Standard deviation, Skewness and Kurtosis against the chronologic height in stratigraphy. The graph in the lower right corner shows the tails (minimum and maximum) values of the distribution curve.



**APPENDIX 4.2** Results of the calculated grain-size  $\phi$  values for section **JH-N**, plotted respectively; Graphic mean, Standard deviation, Skewness and Kurtosis against the chronologic height in stratigraphy. The graph in the lower right corner shows the tails (minimum and maximum) values of the distribution curve.





**APPENDIX 4.3** Results of the calculated grain-size  $\phi$  values for section **M-NW**, plotted respectively; Graphic mean, Standard deviation, Skewness and Kurtosis against the chronologic height in stratigraphy. The graph in the lower right corner shows the tails (minimum and maximum) values of the distribution curve.



**APPENDIX 4.4** Results of the calculated grain-size  $\phi$  values for section **M-SW**, plotted respectively; Graphic mean, Standard deviation, Skewness and Kurtosis against the chronologic height in stratigraphy. The graph in the lower right corner shows the tails (minimum and maximum) values of the distribution curve.





**APPENDIX 4.5** Results of the calculated grain-size  $\phi$  values for section **M-SE**, plotted respectively; Graphic mean, Standard deviation, Skewness and Kurtosis against the chronologic height in stratigraphy. The graph in the lower right corner shows the tails (minimum and maximum) values of the distribution curve.

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| Sample      | Thinsection 7 – HAT 1.3                                       |
|-------------|---------------------------------------------------------------|
| Sphericity  | Low to high                                                   |
| Angularity  | Angular to sub-rounded                                        |
| Sedimentary | Bioclastic structures and remains – matrix to grain supported |
| features    |                                                               |
| Picture     | Thinsection 7 – 7.3                                           |
| Porosity    | Very low                                                      |
| Matrix      | ± 20% - Wacke (Tucker, 2001)                                  |
| Content     | 30% quartz                                                    |
|             | 5 – 10% calcite                                               |
|             | 1% glauconite                                                 |
|             | 2% muscovite                                                  |
|             | 30% lithic fragments                                          |
| Rock type   | (lithic wacke)                                                |

| Sample      | Thinsection 3 – HAT 61                                                                                                 |
|-------------|------------------------------------------------------------------------------------------------------------------------|
| Sphericity  | Medium                                                                                                                 |
| Angularity  | Sub-rounded to rounded                                                                                                 |
| Sedimentary | Laminated (not oriented) apparent soft sediment deformation influenced lamination – matrix supported fabric – contains |
| features    | tiny shell remains and bioclasts – some grains contain fluid inclusions                                                |
| Picture     | Thinsection 3 – 3.1                                                                                                    |
| Porosity    | < 1%                                                                                                                   |
| Matrix      | 10 – 20% - shades of brown, very fine grains and calcite in matrix - Arenite / Wacke (Tucker, 2001)                    |
| Content     | 25% quartz                                                                                                             |
|             | 2% plagioclase                                                                                                         |
|             | 1% beryl – 1 or 2% opaque minerals                                                                                     |
|             | 5% hornblende                                                                                                          |
|             | 30 – 40 % very fine grained clasts                                                                                     |
| Rock type   | (lithic arenite/wacke)                                                                                                 |

| Sample      | Thinsection 18 – HBT 65                                                                         |
|-------------|-------------------------------------------------------------------------------------------------|
| Sphericity  | Medium to high                                                                                  |
| Angularity  | Sub-rounded                                                                                     |
| Sedimentary | Laminated, grain supported – concentration of iron concretions in the bottom of the thinsection |
| features    |                                                                                                 |
| Picture     |                                                                                                 |
| Porosity    | 5%                                                                                              |
| Matrix      | ± 30% - Wacke (Tucker, 2001)                                                                    |
| Content     | 35% quartz                                                                                      |
|             | 10% plagioclase, perfect triclinic crystal                                                      |
|             | < 5% calcite                                                                                    |
|             | 2% opaque minerals                                                                              |
|             | 3% halite                                                                                       |
|             | 15% lithic fragments                                                                            |
| Rock type   | (feldspathic lithic wacke)                                                                      |

| Sample      | Thinsection 1 A – HST 131                                                                                               |
|-------------|-------------------------------------------------------------------------------------------------------------------------|
| Sphericity  | Medium                                                                                                                  |
| Angularity  | Sub-angular to sub-rounded                                                                                              |
| Sedimentary | Small iron nodules at the bottom – matrix/porosity increase to the top – thin laminations – dominantly matrix supported |
| features    | fabric                                                                                                                  |
| Picture     |                                                                                                                         |
| Porosity    | 10 – 35 %                                                                                                               |
| Matrix      | ± 25% - Wacke (Tucker, 2001)                                                                                            |
| Content     | 30% quartz                                                                                                              |
|             | 2% albite                                                                                                               |
|             | 3% plagioclase                                                                                                          |
|             | < 1% biotite/muscovite                                                                                                  |
|             | 5% brownish minerals – moderate to high relief                                                                          |
|             | 2% opaque                                                                                                               |
|             | 20% lithic fragments                                                                                                    |
| Rock type   | (lithic wacke)                                                                                                          |

| Sample      | Thinsection 6 – HST 127                                       |
|-------------|---------------------------------------------------------------|
| Sphericity  | Low to high                                                   |
| Angularity  | Sub-angular                                                   |
| Sedimentary | Matrix grains – grain supported fabric – variety of bioclasts |
| features    |                                                               |
| Picture     | Thinsection 6 – 6.5                                           |
| Porosity    | Very low                                                      |
| Matrix      | ± 15% - Arenite / Wacke (Tucker, 2001)                        |
| Content     | 30% quartz                                                    |
|             | 5 – 10% calcite                                               |
|             | 1% glauconite                                                 |
|             | 2% muscovite                                                  |
|             | 35% lithic fragments                                          |
| Rock type   | (lithic arenite/wacke)                                        |

| Sample      | Thinsection 4 – HST 145                    |  |  |  |  |  |  |  |
|-------------|--------------------------------------------|--|--|--|--|--|--|--|
| Sphericity  | Medium to high                             |  |  |  |  |  |  |  |
| Angularity  | Sub-angular to rounded                     |  |  |  |  |  |  |  |
| Sedimentary | Grain supported fabric with point contacts |  |  |  |  |  |  |  |
| features    |                                            |  |  |  |  |  |  |  |
| Picture     | Thinsection 4 – 4.1                        |  |  |  |  |  |  |  |
| Porosity    | < 5%                                       |  |  |  |  |  |  |  |
| Matrix      | ± 15% - Arenite / Wacke (Tucker, 2001)     |  |  |  |  |  |  |  |
| Content     | 30% quartz                                 |  |  |  |  |  |  |  |
|             | 2% orthoclase                              |  |  |  |  |  |  |  |
|             | 3% muscovite                               |  |  |  |  |  |  |  |
|             | 1% biotite                                 |  |  |  |  |  |  |  |
|             | 4% plagioclase                             |  |  |  |  |  |  |  |
|             | 1% opaque minerals – in clusters           |  |  |  |  |  |  |  |
|             | 25% lithic fragments                       |  |  |  |  |  |  |  |
| Rock type   | (feldspathic lithic arenite/wacke)         |  |  |  |  |  |  |  |

| Sample      | Thinsection 14 – HST 145.3                                                          |
|-------------|-------------------------------------------------------------------------------------|
| Sphericity  | Low to high                                                                         |
| Angularity  | Sub-rounded                                                                         |
| Sedimentary | More rounded towards the top – bioclasts – lots of darker clasts under normal light |
| features    | Very elongated angular clasts do occur                                              |
| Picture     | Thinsection 14 – 14.1                                                               |
| Porosity    | Very low                                                                            |
| Matrix      | ± 5% matrix and grains consisting of matrix - Arenite (Tucker, 2001)                |
| Content     | 40% quartz                                                                          |
|             | 5% halite                                                                           |
|             | 5% opaque                                                                           |
|             | 1% muscovite/biotite                                                                |
|             | 1% albite                                                                           |
|             | 1% calcite                                                                          |
|             | 40% lithic fragments                                                                |
| Rock type   | (litharenite)                                                                       |

**APPENDIX 5** Results of the interpreted thin-sections under the microscope.



## Legend



**APPENDIX 6.1** Magnetostratigrahic results concerning the declination and inclination of both Jebel Haricha sections. (Left) results of section JH-S, (right) results of section JH-N.





## Legend



**APPENDIX 6.2** Magnetostratigrahic results concerning the declination and inclination of both sampled Mahouma sections. (Left) results of section M-NW, (right) results of section M-SW.



**APPENDIX 7.1** Indication of palaeo-current velocities related to bottom currents in the Jebel Haricha North section (JH-N) obtained from bedforms and grain sizes. Source of diagram: *Rebesco et al. (2014)*. Bottom current velocities range from 0.1 to approximately 1.5 ms<sup>-1</sup>, note however that higher velocities might have occurred. Higher velocities combined with the grain-sizes present however most likely led to the formation of erosional surfaces.





**APPENDIX 7.2** Indication of palaeo-current velocities related to bottom currents in the Mahdouma southeast section (**M-SE**) obtained from bedforms and grain sizes. Source of diagram: *Rebesco et al. (2014)*. Bottom current velocities range from 0.1 to approximately 1.0 ms<sup>-1</sup>, note however that higher velocities might have occurred. Higher velocities combined with the grain-sizes present however most likely led to the formation of erosional surfaces. Erosional surfaces were only noticed as channel-like incisions, major erosional surfaces were not encountered in this section. **APPENDIX 8** Sedimentary log sheets - for the stratigraphic location of the individual log sheets I refer to Appendix 6.1 (Jebel Haricha composite section) and to Appendix 6.2 (Mahdouma sections).

Note: logs sheets have been produced starting at the lowermost point of the stratigraphic unit, working our way towards the upper part of the stratigraphy, appendices are shown in the same order.

|                     |              |                              |        |                    | JEE           | BEL HARIC                                                                                                       | CHA S                     | OUTH – L                                 | .OG           | HA 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              |
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| Stratigrap<br>Units | Photograp    | Outcrop<br>Data &<br>Samples | Relief | Compos.<br>Texture | ф (1          |                                                                                                                 | Trans-<br>port<br>Direct. | Sedimentary/<br>Diagenetic<br>Structures | Bio-<br>turb. | Additional Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Fossil Cont. |
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|                     |              | A0 12.8 -                    |        |                    |               |                                                                                                                 | CHEST                     | anso 🗸                                   | 177           | SUTSTONE - SEEVAND SHELLED.<br>ON LIVERS A CAUSE SHE NORE<br>SUCK CHT STAINST - WIDT 3<br>(MANRED-+ DET H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |              |
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|                     | ine          | 11                           | 20-    |                    | Collection of |                                                                                                                 |                           | -                                        | 14            | 29.4.540 114                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1.00         |
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| 2) -<br>            |              |                              |        |                    |               |                                                                                                                 |                           |                                          |               | DARKER SICT LAYER, UESS O WHAT HEAD<br>CONTINUE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |              |
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| HILLER<br>HELET     | w/2(à)<br>+∑ |                              |        |                    | -             | 3                                                                                                               |                           | CMES (1948)                              | 555           | DEMAR HODILLS<br>EXAMPLE TOD FORELY SOUTED<br>DURING TOM & SUVALUE SADL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Ť            |
|                     | M10,94       |                              |        |                    | 9. e.         |                                                                                                                 |                           | 89                                       |               | <ul> <li>BRENDED BUARTS EDHILLIAATS BUILT<br/>- BRENDAWY BEACL,<br/>DAME CONVERTING T</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              |
| _                   | M1002        |                              | 0.0    | 111-33-54          |               | 2                                                                                                               |                           | CERED                                    | Шř.           | QUITE BOOKLY EXPOSED & HID IS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | miD T        |
|                     |              | 1-2514 ·                     |        |                    |               |                                                                                                                 |                           | 100                                      |               | ALL MM ACCRETION IN VE JAND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |              |
|                     |              |                              |        | 101311             |               | in the second |                           |                                          |               | WELL SHETFD, EXCLANATE BOOKT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |              |
|                     |              |                              |        | 1000000000         |               | -2                                                                                                              |                           | (787)                                    |               | Anne an Delena                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |              |
|                     | -01<br>-01   |                              |        |                    |               |                                                                                                                 |                           |                                          |               | Safe Site NW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |              |
|                     |              | TALS                         |        | 10.000             |               | -                                                                                                               |                           |                                          |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |              |
|                     |              | HAB1 .                       |        |                    |               | T.                                                                                                              |                           |                                          |               | THE REAL PROPERTY OF THE PROPERTY OF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              |
|                     |              | AG1                          |        |                    |               | 2                                                                                                               |                           |                                          |               | TOP & 4-10 % BUCKAR MATRIX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |
| -                   |              | 17                           |        |                    |               | A 11-14-04                                                                                                      | hum.                      | Provide and and                          | 10-04         | r tev li                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |              |

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|---------------------|--------------------------------|------------------------------|--------|--------------------|-----------------------------------------|---------------------------|------------------------------------------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| phis<br>phis        |                                |                              | Coli   | umnar Section      |                                         | Structures                |                                          |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                 |
| Stratigral<br>Units | Stratigra<br>Units<br>Photogra | Outcrop<br>Data &<br>Samples | Relief | Compos.<br>Texture | Φ ========                              | Trans-<br>port<br>Direct. | Sedimentary/<br>Diagenetic<br>Structures | Bio-<br>turb. | Additional Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Fossil Cont.    |
|                     |                                |                              |        |                    |                                         |                           |                                          |               | ALTERNITION OF UGHT SDEY JULTS.<br>AND CARLER, JOPTER, CLAY<br>KICH SLITZIONE UP TO 33.0000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                 |
|                     |                                | H-4860.41 .<br>A6.59.4       | 50-    |                    |                                         |                           |                                          |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                 |
|                     | N 16.24                        | H-AG4(5.7                    |        |                    |                                         |                           |                                          | 5*            | 1655 prosent + type, pro entrop                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                 |
|                     |                                | H-AB47.7 +                   |        |                    |                                         |                           |                                          | 3             | PROTOR BATION & JOILM DEEPENDENC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | an              |
|                     |                                |                              |        |                    |                                         |                           |                                          |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                 |
|                     |                                | н-лечч.5                     | 50     |                    | 1                                       |                           |                                          |               | Hans showy varsing instabilitiens?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                 |
|                     |                                | H · AB43.8+                  |        |                    |                                         |                           |                                          | 5             | DARKGLEY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | +0.5rm -        |
|                     | 615.41<br>1509                 |                              | 2      |                    |                                         |                           | đĐ                                       | 5 -           | HOLE AND A CONTRACT OF A CONTR | Netherland Barr |
|                     |                                | H-A641 •                     | 20-    |                    |                                         |                           | Đ                                        |               | SUTA UP WELLSELTED<br>PRATE HAD - LESS BLACK HEAVY<br>DAKLGBEY, HOBE CLAY<br>DYRITE RADDEREY + BIOTITE<br>INN'T SERV (MAREN HIGHT (E GETTIASE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                 |
|                     |                                | 4-1829.5 ·<br>NG 37.5        | 1      |                    |                                         |                           | -                                        | 5             | PRENTLY COARSER - NOT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                 |
|                     |                                | H-AD37.1                     |        |                    |                                         |                           |                                          | ,             | HARDERLENYERS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 8               |
|                     |                                |                              | 3      |                    |                                         | ~                         |                                          | 105           | AND UP AR UP A P TANK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                 |
|                     |                                |                              | 38-    |                    |                                         | 300 M.                    | 24 °→290A/<br>94 °→268 A⇒                | 5             | BODMAN BOYLIK AS NORTH<br>SUBCILIANAG LUTURID + TOURIDE FR.<br>STOCKED WITH FRIESDAND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u></u>         |
|                     |                                | H-ND-34 +                    | 4      |                    |                                         | 390.3                     |                                          | 23            | -36"-510 AW BACK BRAKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                 |
|                     |                                |                              |        | 7                  | -                                       |                           |                                          |               | SLITSTICATED FOR THE STIRE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                 |
|                     |                                | 5.1000.0                     | 30-    |                    |                                         |                           |                                          |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                 |
|                     | N15.21                         | water of a                   |        |                    |                                         |                           | 480                                      | 2             | BIOTHER & ACH BRANETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                 |
|                     | w16.73                         | н- 4639 +<br>Ас-29           |        |                    |                                         |                           |                                          |               | States and the second states and the second  |                 |
|                     |                                | H-A022 .                     |        |                    |                                         |                           | 090                                      | ş:            | PAUME LANAGE CARAGE SAME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 77              |

| phic<br>phs        | phs                           |                              |                  | Colu                        | umnar Section |                           | Structures                               |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 25-09                                 |
|--------------------|-------------------------------|------------------------------|------------------|-----------------------------|---------------|---------------------------|------------------------------------------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| Stratigra<br>Units | Photogra                      | Outcrop<br>Deta &<br>Semples | Relief           | Compos.<br>Texture          | Ψ ×4 ×(1 +    | Trans-<br>port<br>Direct. | Sedimentary/<br>Diagenetic<br>Structures | Bio-<br>turb. | Additional Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Fossil Cont.                          |
|                    | W2501                         |                              |                  |                             |               |                           |                                          |               | CREARCH STITETONS, CREATE<br>COLDIN, MALL REPAILS + REPAILS ST.<br>SHE PHETLER.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |
|                    | 117.05<br>1609                | H- A576-7                    |                  |                             |               |                           |                                          |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | $\mathcal{T} \ll ^{\rm HH}_{\rm daw}$ |
|                    |                               |                              | 76               |                             |               |                           |                                          |               | HIGH CLAY COUT, 517-BLACK HASPART<br>CANS CARD COUNTE O COMAST<br>DRAM, SUISTING A REAL<br>DRAM SUISTING REAL<br>DRAM AND TELECTURY AND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                       |
|                    |                               | 1FA872.0 ·                   |                  |                             |               |                           |                                          |               | SHELL FRAGE > 5%, > 5 HM<br>Dutin ver oden, svar evan Hendus<br>Date: Chells dear EDie on Maile<br>Energy H.,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | . <del>3</del>                        |
|                    |                               |                              |                  |                             |               |                           |                                          |               | SOUSIALY TING AND AND SEE FEASE AT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 791.5000                              |
|                    | H 12. 00                      |                              |                  |                             |               |                           |                                          |               | NATERIAL (ES) WELL EX DODED, DONE<br>REDS MIGHT REQUIRE ODILED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | + EEPHAINS,                           |
|                    |                               |                              | <del>2</del> 0 - |                             |               |                           |                                          |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |
|                    |                               | H-A669-4                     |                  | 1. Sec. 9.2.<br>Sec. Const. |               |                           |                                          |               | 140°                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                       |
|                    |                               | AGEq                         |                  |                             |               |                           |                                          |               | DEFORME AND DEPENDENT ON A CONT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |
|                    |                               |                              |                  |                             |               |                           | 0                                        | e             | LUNCL SERVICE, MICAS-SPACE FUR, BLACK ,<br>BIRTHING VETO 2 CH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                       |
|                    |                               | H- A8 657 -                  |                  |                             |               |                           | 0                                        | 3             | CONSTRUCTOR STORES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                       |
|                    |                               | -                            | 65 .             |                             |               |                           |                                          | 3             | nehu geen einstagene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                       |
|                    |                               | 4 - AB (5.4                  |                  |                             |               |                           |                                          |               | HORE BACK HARBARS BOUNDA CHINAN HAR<br>HARTH HARBARS SOLAR DARK SEEY<br>SIGN HARBARS HARBARS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | W                                     |
|                    | 2113:07                       |                              | -                |                             |               | 1                         | യ്യ<br>പഞ്ഞ: അ                           |               | ALLAS + OF PART SUAL AND ALLAS A COMPANY SUAL ALLAS + OF PART SUAL ALLAS AND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 8.0                                   |
|                    | M1317<br>2.1 <sub>11</sub> /g | H-AT61<br>H-AG61<br>H-AB605- |                  | 250/21/7                    |               |                           | 0                                        | s             | LEADERS WITH LARE MURIL SAMO, BOT ONE<br>CONTINUE, LART WARTER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |
|                    |                               | A6.60.5                      | 60.              |                             |               |                           |                                          |               | CONVERSION OF SALE SALES OF SALES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -1.1 0. 5 MIN                         |
|                    | pe15_15                       |                              |                  | Ter Art M                   |               |                           | æ                                        | 5             | LOW SERVE THE CONTRACT OF THE A PROVIDED TO A DECEMBER OF THE ADDRESS OF THE ADDR | e Atta                                |
|                    | Mrt. 0%<br>2×09               | н-ла 547 -                   |                  |                             |               |                           |                                          |               | SHELL ERHALMS WOTH LS MINN AND<br>IMM SLAUL SLATY CLAST WHICH<br>SERVISM CRANULES DOBLING STREET<br>SCIENTLY HOSE HEAVY MUDELAUS<br>WHICH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | D.                                    |
|                    |                               |                              |                  |                             | T T           |                           |                                          |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |
|                    |                               | H-46.54.5                    | 55 -             |                             |               |                           |                                          |               | DARK GREY<br>Decorder LIMBONE WENNY MINDERIC<br>COMP AND WHITE COMPTS<br>WELL SORTED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                       |
|                    |                               |                              |                  |                             | K             |                           |                                          |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |

| JEBEL HARICHA SOUTH – LOG HA 4 |          |                              |        |                    |       |         |                           |                                          |               |                         |              |
|--------------------------------|----------|------------------------------|--------|--------------------|-------|---------|---------------------------|------------------------------------------|---------------|-------------------------|--------------|
| phic                           | phs      |                              |        | Col                | umnar | Section |                           |                                          |               |                         |              |
| Stratigrap<br>Units            | Photogra | Outcrop<br>Data &<br>Samples | Relief | Compos.<br>Texture | ٥     |         | Trans-<br>port<br>Direct. | Sedimentary/<br>Diagenetic<br>Structures | Bio-<br>turb. | Additional Description  | Fossil Cont. |
|                                |          | H-AB103.5" +                 |        |                    |       |         |                           |                                          |               |                         |              |
|                                |          |                              |        |                    |       |         |                           |                                          |               |                         |              |
|                                |          |                              |        |                    |       |         |                           |                                          |               |                         |              |
|                                |          |                              |        |                    |       |         |                           |                                          |               |                         |              |
|                                |          | H-AB100.5 .<br>AG100.5       | 100    |                    |       |         |                           |                                          |               |                         |              |
|                                |          |                              |        |                    |       |         |                           |                                          |               |                         |              |
|                                |          |                              |        |                    |       |         |                           |                                          |               |                         |              |
|                                |          | H-1009.7 .                   |        |                    |       |         |                           |                                          |               |                         |              |
|                                |          |                              |        |                    |       |         |                           |                                          |               |                         |              |
|                                |          |                              |        |                    |       |         |                           |                                          |               |                         |              |
|                                |          |                              |        |                    |       |         |                           |                                          |               |                         |              |
|                                |          | H-AEgu.7 .                   | 4.3    |                    |       |         |                           |                                          |               |                         |              |
|                                |          |                              |        |                    |       |         |                           |                                          |               |                         |              |
|                                |          |                              |        |                    |       |         |                           |                                          |               |                         |              |
|                                |          |                              |        |                    |       |         |                           |                                          |               |                         |              |
|                                |          | H-YEdis .                    |        |                    |       |         |                           |                                          |               |                         |              |
|                                |          |                              |        |                    |       |         |                           |                                          |               |                         |              |
|                                |          |                              | 90     |                    |       |         |                           |                                          |               |                         |              |
|                                |          | H-AB-88.5 -                  |        |                    |       |         |                           |                                          |               | RWALLE SHELL SEN MORALT | 0            |
|                                | -        | AG 05.5                      |        |                    |       |         |                           |                                          |               | 2 cm                    | -            |
|                                |          |                              |        |                    |       |         |                           |                                          |               |                         |              |
|                                |          |                              |        |                    |       |         |                           |                                          |               |                         |              |
|                                |          | MAE 855 ·                    |        |                    |       |         |                           |                                          |               |                         |              |
|                                |          |                              | 92     |                    |       |         |                           |                                          |               |                         |              |
|                                |          | a-12                         |        |                    |       |         |                           |                                          |               |                         |              |
|                                |          | 14-A5-872.7 ·                |        |                    |       |         |                           |                                          |               |                         |              |
|                                |          | ALCONT STALLS                |        |                    |       |         |                           |                                          |               |                         |              |
|                                |          |                              |        |                    |       |         |                           |                                          |               |                         |              |
|                                |          |                              |        |                    |       |         |                           |                                          |               |                         |              |
|                                |          | H-AD793                      |        |                    |       |         |                           |                                          |               |                         |              |
|                                |          | 0.00                         |        |                    |       |         |                           |                                          |               |                         |              |
|                                |          |                              |        |                    |       |         |                           |                                          |               |                         |              |

## DECREMENTED RESOLUTION -+ EVERY SH .

|                     |           |                                     |        |                    |      | JEBEL HARIO | CHA S                     | OUTH – L                                 | .0G           | HA 5                            |              |
|---------------------|-----------|-------------------------------------|--------|--------------------|------|-------------|---------------------------|------------------------------------------|---------------|---------------------------------|--------------|
| hic                 | sło       |                                     |        | Col                | umna | r Section   |                           | Structures                               |               |                                 |              |
| Stratigrap<br>Units | Photograp | Outcrop<br>Data &<br>Samples        | Relief | Compos.<br>Texture | Φ    |             | Trans-<br>port<br>Direct. | Sedimentary/<br>Diagenetic<br>Structures | Bio-<br>turb. | Additional Description          | Fossil Cont. |
|                     |           | H-A6130.5<br>A61305                 | 98     |                    |      |             |                           |                                          |               | H-AB140 1145m<br>AG140 BIOTURBO | FIOCM        |
|                     |           |                                     |        |                    |      |             |                           |                                          |               | H-113 137.4                     |              |
|                     |           | H-MB-N7.5 -                         |        |                    |      |             |                           |                                          |               | H-AB 134.5                      |              |
|                     |           |                                     |        |                    |      |             |                           |                                          |               |                                 |              |
|                     |           | H-AS 124.2                          | 125    |                    |      |             |                           |                                          |               |                                 |              |
|                     |           |                                     |        |                    |      |             |                           |                                          |               |                                 |              |
|                     |           | H-AD121.5 .                         |        |                    |      |             |                           |                                          |               |                                 |              |
|                     |           | AG121.5                             |        |                    |      |             |                           |                                          |               |                                 |              |
|                     |           |                                     | 120    |                    |      |             |                           |                                          |               |                                 |              |
|                     |           | H-ABU&S                             |        |                    |      |             |                           |                                          |               |                                 |              |
|                     |           |                                     |        |                    |      |             |                           |                                          |               |                                 |              |
|                     |           | H-4815.7                            |        |                    |      |             |                           |                                          |               |                                 |              |
|                     |           |                                     | HS.    | -                  |      |             |                           |                                          |               |                                 |              |
|                     |           |                                     |        |                    |      |             |                           |                                          |               |                                 |              |
|                     |           | HA8 112.5 ,                         |        |                    |      |             |                           |                                          |               | ,                               |              |
|                     |           | H-AB110.5                           |        |                    |      |             |                           |                                          |               |                                 |              |
|                     |           | 1.56 (1)<br>(2.66 (1)<br>(2.66 (1)) | 10     |                    |      |             |                           |                                          |               |                                 |              |
|                     |           |                                     |        |                    |      |             |                           |                                          |               |                                 |              |
|                     |           |                                     |        |                    |      |             |                           |                                          |               |                                 |              |
|                     |           | н-иртор.5 •                         |        |                    |      |             |                           |                                          |               |                                 |              |
|                     |           |                                     | 1K     |                    |      |             |                           | 14                                       |               |                                 |              |

| jë                   | je<br>je   |                              |        | Col                | umna | r Section | 8                         | Structures                               | 1             |                        |             |
|----------------------|------------|------------------------------|--------|--------------------|------|-----------|---------------------------|------------------------------------------|---------------|------------------------|-------------|
| Stratigraph<br>Units | Photograph | Outcrop<br>Data &<br>Samples | Relief | Compos.<br>Texture | •    |           | Trans-<br>port<br>Direct. | Sedimentary/<br>Diagenetic<br>Structures | Bio-<br>turb. | Additional Description | Fossil Cont |
|                      |            |                              |        |                    |      |           |                           |                                          |               |                        |             |
|                      |            | H-BB24.5.                    | 25 -   |                    |      |           |                           |                                          |               |                        |             |
|                      |            |                              |        |                    |      |           |                           |                                          |               |                        |             |
|                      |            |                              |        |                    |      |           |                           |                                          |               |                        |             |
|                      |            | ∦•1987/5 •                   |        |                    |      |           |                           |                                          |               | Also fossils found     |             |
|                      |            |                              | 20 -   |                    |      |           |                           |                                          |               |                        |             |
|                      |            | H POIDS                      |        |                    |      |           |                           |                                          |               |                        |             |
|                      |            | Beidia                       |        |                    |      |           |                           |                                          |               |                        |             |
|                      |            | H-0516.                      |        |                    |      |           |                           |                                          |               |                        |             |
|                      |            |                              | 告 -    |                    |      |           |                           |                                          |               |                        |             |
|                      |            |                              |        |                    |      |           |                           |                                          |               |                        |             |
|                      |            | N- 2817 5 .                  |        |                    |      |           |                           |                                          |               | 5                      |             |
|                      |            | 11 00 14 10 1                |        |                    |      |           |                           |                                          |               |                        |             |
|                      |            |                              |        |                    |      |           |                           |                                          |               |                        |             |
|                      |            | H-889.5 .<br>869.5           | 10 -   |                    |      |           |                           |                                          |               |                        |             |
|                      |            |                              |        |                    |      |           |                           |                                          |               |                        |             |
|                      |            |                              |        |                    |      |           |                           |                                          |               |                        |             |
|                      | đ          | H-886.5 .                    |        |                    |      |           |                           |                                          |               |                        |             |
|                      |            |                              | 5.     |                    |      |           |                           |                                          |               |                        |             |
|                      |            | M-658.5 .                    |        |                    |      |           |                           |                                          |               |                        |             |
|                      |            |                              |        |                    |      |           |                           |                                          |               |                        |             |
|                      |            |                              |        |                    |      |           |                           |                                          |               |                        |             |
|                      |            | W-650                        |        |                    |      |           |                           |                                          |               |                        |             |

|                    |              |                              |        |                    |      | JEBEL HARIO | CHA S                     | OUTH – L                                 | OG I          | HB 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |              |
|--------------------|--------------|------------------------------|--------|--------------------|------|-------------|---------------------------|------------------------------------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| aphic              | aphs         |                              |        | Col                | umna | r Section   | 1                         | Structures                               |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              |
| Stratigra<br>Units | Photogre     | Outcrop<br>Data &<br>Sample: | Relief | Compos.<br>Texture | ٥    |             | Trans-<br>port<br>Direct. | Sedimentary/<br>Diagenetic<br>Structures | Bio-<br>turb. | Additional Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Fossil Cont. |
|                    |              |                              |        |                    |      |             |                           |                                          |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              |
|                    |              |                              |        |                    |      |             |                           |                                          |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              |
|                    |              |                              | 50-    |                    |      |             |                           |                                          |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              |
|                    |              | H-BB495                      |        |                    |      |             |                           |                                          |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              |
|                    |              |                              |        |                    |      |             |                           |                                          |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              |
|                    |              |                              |        |                    |      |             |                           |                                          |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              |
|                    |              | B-RRDAS -                    |        |                    |      |             |                           |                                          |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              |
|                    |              | 9.87 (817                    |        |                    |      |             |                           |                                          |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              |
|                    |              |                              | 15     |                    |      |             |                           |                                          |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              |
|                    |              |                              |        |                    |      |             |                           |                                          |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              |
|                    |              | H-8843.5 -                   |        |                    |      |             |                           |                                          |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              |
|                    |              |                              |        |                    |      |             |                           | 1                                        |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              |
|                    |              |                              |        |                    |      |             |                           |                                          |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              |
|                    |              |                              |        |                    |      |             |                           |                                          |               | The main sector of the sector |              |
|                    |              |                              |        |                    |      |             |                           |                                          |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              |
|                    |              | H-88 59.5                    | 10.4   |                    |      |             |                           |                                          |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              |
|                    |              | - Pole order o               |        |                    |      |             |                           |                                          |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -            |
|                    |              |                              |        |                    |      |             |                           |                                          |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | _            |
|                    |              |                              |        |                    |      |             |                           |                                          |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              |
|                    | W2200<br>-01 | H-155.56.5 .                 |        |                    |      |             |                           |                                          |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              |
|                    |              |                              |        |                    |      |             |                           |                                          |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              |
|                    |              |                              | 35-    |                    |      |             |                           |                                          |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              |
|                    |              |                              |        |                    |      |             |                           |                                          |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              |
|                    |              | H-68385.                     |        |                    |      |             |                           |                                          |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              |
|                    | 19           |                              |        |                    |      |             |                           |                                          |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              |
|                    |              |                              |        |                    |      |             |                           |                                          |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 14.          |
|                    |              | W-R.8.30.5 .                 |        |                    | 1    |             |                           |                                          |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1            |
|                    |              | 56395                        | 50 -   |                    |      |             |                           |                                          |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              |
|                    |              |                              |        |                    |      |             |                           |                                          |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              |
|                    |              | + 6827.5.                    |        |                    |      |             |                           |                                          |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              |
|                    |              |                              |        |                    |      |             | 1                         |                                          |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              |
|                    |              |                              |        |                    |      |             |                           |                                          |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              |
|                    |              |                              |        |                    |      |             |                           |                                          |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              |

|                  |          |                                       |           |                      |       | JEBEL HARIC | CHA S   | OUTH-L                     | OG    | НВЗ                                                                       |             |
|------------------|----------|---------------------------------------|-----------|----------------------|-------|-------------|---------|----------------------------|-------|---------------------------------------------------------------------------|-------------|
| ntigraphic<br>ts | tographs | crop<br>a &<br>nples                  | let       | Colu<br>Compos.      | imnar | Section     | Trans-  | Structures<br>Sedimentary/ | Bio-  | Additional Description                                                    | Fossil Cont |
| Stra             | Pho      | Dat                                   | Rel       | Texture              | Φ     | 10011       | Direct. | Structures                 | turb. |                                                                           |             |
|                  |          |                                       |           |                      |       |             |         |                            |       |                                                                           |             |
|                  |          |                                       |           |                      |       |             |         |                            |       |                                                                           |             |
|                  |          |                                       | 70-       |                      |       |             |         |                            |       |                                                                           |             |
|                  |          | u order to                            |           | ******               | ALTER |             |         |                            |       | - MC 0)                                                                   |             |
|                  |          | Bears<br>H BT 65<br>9643<br>H BB-62.5 | 65-<br>64 |                      | 24    |             | s yes   | l mullimet                 | -     | share contact blue mouls -<br>silly mass (cyregish) with<br>pedisona beds |             |
|                  |          | HBR 575 .<br>BG 595 .                 | 60-       | ىك ئە<br>ىك<br>ىك كە |       |             |         |                            |       |                                                                           |             |
|                  |          | H58555 ·                              |           |                      |       |             |         |                            |       |                                                                           |             |
|                  |          | uggess -                              | 5         |                      |       |             |         |                            |       |                                                                           |             |

|                     |                                                              |                              |        |                    | JE       | EBEL HARI | сна s                     | OUTH – L                                 | .OG           | HC 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |               |
|---------------------|--------------------------------------------------------------|------------------------------|--------|--------------------|----------|-----------|---------------------------|------------------------------------------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| hic                 | she                                                          |                              |        | Colu               | mnar Sec | tion      | 3                         | Structures                               |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |               |
| Stratigrap<br>Units | Photograp                                                    | Outcrop<br>Data &<br>Samples | Relief | Compos.<br>Texture | Φ ,      |           | Trans-<br>port<br>Direct. | Sedimentary/<br>Diagenetic<br>Structures | Bio-<br>turb. | Additional Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Fossil Cont.  |
|                     |                                                              | 116615,3                     | 25 -   |                    |          | {         |                           |                                          |               | + 20CH UF-FOANOBED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |               |
|                     |                                                              | HC8945 -                     |        |                    |          | 5         | 015 5                     | 140.                                     |               | WELLOWIED, DEDISOES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |               |
|                     |                                                              | H-CT                         |        | Stong for 15       |          |           | - MARK                    |                                          | 5             | Pottiguy compature waves 3 a 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |               |
| •                   | WZ#09.                                                       |                              |        | Not man            |          | E         |                           | -                                        | 3             | Here Store Stores To A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |               |
|                     |                                                              | ex HC8215.                   |        |                    |          | }         |                           |                                          |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |               |
|                     |                                                              |                              | 30.7   | No. Contra         | ~~~      |           |                           |                                          | 5             | DELY THUS ALOBED BUT EDITIONATED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |               |
|                     |                                                              |                              |        |                    |          |           |                           |                                          |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3             |
|                     |                                                              | HC/3 1812 -                  |        |                    |          |           |                           |                                          |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |               |
|                     | N 1609<br>00                                                 |                              |        |                    | 5.12     | <u>}</u>  | 88 f.w.                   | 00-84                                    | ş             | Reacceller carrops thrachiels in some<br>high lacks calls, us is being<br>wear calls to the call of the<br>traction the track of the the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Min.          |
|                     |                                                              | HCG 15.5                     |        |                    |          |           |                           |                                          |               | Georgeness - AGAINAISANE<br>StatesTopula                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | general       |
|                     | 19.5<br>19.5<br>19.5<br>19.5<br>19.5<br>19.5<br>19.5<br>19.5 | HCG 15                       | 19     |                    | -11-011  | 2         |                           | 214                                      | 5             | <ul> <li>Kow Device of the condition of the second sec</li></ul> | 80            |
|                     |                                                              |                              |        |                    |          |           |                           |                                          |               | Астальном ор тоблыг Аста<br>армаас / Варимасын Астар Тоблаг<br>самайса: «Э МКСС                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |               |
|                     |                                                              | HCG N.S +                    |        |                    |          |           |                           |                                          |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |               |
| _                   |                                                              |                              |        |                    |          |           |                           |                                          |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |               |
| ~                   |                                                              | HUB 9, I .                   | 0-     |                    |          | 7         |                           |                                          |               | A UNITE ALL A COUNTERS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |               |
|                     |                                                              |                              |        |                    |          |           |                           |                                          |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |               |
|                     |                                                              | HCB 7.5 .                    |        | in in in it.       |          |           |                           |                                          |               | Ar Quertona of unbring HireSouth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |               |
|                     | *                                                            |                              |        | 199.995            |          |           |                           |                                          |               | State Stream of Streams                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |               |
|                     |                                                              | HOUS .                       | 5 -    |                    |          |           |                           |                                          |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |               |
|                     |                                                              | 1000 110                     |        |                    |          |           |                           |                                          |               | SEE LURCHAN<br>ACHIMORET DS ;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |               |
|                     | without a                                                    | HCG3<br>HCG3.P .             |        |                    |          | 7         | -MARK                     | -11                                      | SI.           | The Red Sequences I are a former of a prove<br>Set Set up a former of a prove<br>(15) Burdenbar, Schemer of Detroit of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 19            |
|                     | 10,00<br>10,00<br>100                                        | H-CT<br>HCB 1.52             |        |                    |          | 7         |                           | N.5.3                                    | 555           | ( BOUCHUNGT, TOP TO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 5.2 307<br>20 |
|                     |                                                              | HBG7-3                       |        |                    |          | Ľ         | 931 p <sup>111</sup>      | 11                                       |               | - DARRAUL - CLOSER ANN ADARTES<br>USED MARE LARADAR ED DARAGE SAND<br>-Societarier - Product Expany<br>DREF - Information - Hardware                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 7             |

|                    |                |                              |        |                    | JEBEL HARI    | CHA S                     | SOUTH – L                                | OG            | HC 2                                                                                                                                                                                                                                                   |                  |
|--------------------|----------------|------------------------------|--------|--------------------|---------------|---------------------------|------------------------------------------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| phic               | phs            | 10 1025                      |        | Colu               | umnar Section |                           | Structures                               |               | 1000                                                                                                                                                                                                                                                   |                  |
| Stratigra<br>Units | Photogra       | Outcrop<br>Data &<br>Samples | Relief | Compos.<br>Texture |               | Trans-<br>port<br>Direct. | Sedimentary/<br>Diagenetic<br>Structures | Bio-<br>turb. | Additional Description                                                                                                                                                                                                                                 | Fossil Cont.     |
|                    |                |                              |        |                    | - set         |                           |                                          |               |                                                                                                                                                                                                                                                        |                  |
|                    |                | HCB(?)                       |        |                    | -             |                           |                                          |               |                                                                                                                                                                                                                                                        |                  |
|                    | w9999<br>05/66 | HCG-147.7                    |        |                    |               |                           |                                          | 5             | DARTERE CLOSSER CONNEL                                                                                                                                                                                                                                 |                  |
|                    |                |                              |        |                    | an            | 0195                      | 4                                        | 2             | 1204 CONCRETION TOP + 50 TTE P<br>1+P 1.MPL OLDSREDCED - BO AT TOP                                                                                                                                                                                     |                  |
|                    |                | HC8445 .                     | 16 ·   |                    |               |                           |                                          |               | GRey dustance                                                                                                                                                                                                                                          |                  |
|                    |                | HCG 44 -                     |        |                    |               |                           |                                          | 5.            | Osware 20002 purit book A cruck<br>condering the Bigging Count Ick                                                                                                                                                                                     | JYED             |
|                    |                |                              |        |                    | and a first   |                           |                                          | 3             | ILOU COMPRETION AT BOTTON HOAN<br>MED REL LATINATION CORRECT<br>OR CROREBUS! NUMBER                                                                                                                                                                    |                  |
|                    | wageo          | HCB 41.5                     |        |                    |               | 081344                    | an 13 M.                                 |               | SAME AS BRUGHAS<br>UNIXINA IASMIES/SLCP<br>PRIMES LOWMINGS+ SONDODITE                                                                                                                                                                                  | 7.0-             |
|                    | (usqa)         |                              | 110-   |                    | Canton and    | 015 574                   |                                          | 5.8           | THAY BREAMANNESS L. UPUT CHARMEN<br>BUT ARE CONTINUES IN DOLT POWER SCH<br>AUREN AN BUTCH HALE FOR<br>IN DEPUTIES<br>NOT DEPUTIES<br>NOT DEPUTIES<br>DECLARE TO DEFINISE OFF. DIP<br>DECLARE TO DEFINISE<br>DECLARE TO DEFINISE<br>DECLARE TO DEFINISE | 25               |
|                    |                |                              |        |                    | 7             |                           |                                          |               |                                                                                                                                                                                                                                                        |                  |
|                    |                | MC8 38 +                     |        |                    | 5             |                           |                                          |               |                                                                                                                                                                                                                                                        |                  |
|                    |                |                              |        |                    |               |                           |                                          |               | Adequation of Developments (                                                                                                                                                                                                                           |                  |
|                    |                | HCB 35 ·                     | 55 -   |                    |               |                           |                                          |               |                                                                                                                                                                                                                                                        |                  |
|                    |                |                              |        |                    |               |                           |                                          |               |                                                                                                                                                                                                                                                        |                  |
|                    |                | HCB 32 -                     |        |                    |               |                           | ar ar                                    | 5             | TROUDELLET, FROMUS OFFICIAL ADDRESS<br>WAR DESIGNE OFFICIEDAR, CAR CONTED<br>STRAUD                                                                                                                                                                    |                  |
|                    | wźąse<br>- 01  |                              | 10-    |                    |               |                           | ** ~                                     | 5             | COMMENT OF LAVES, MISSE LAVES<br>SUBARTING CAN SEE<br>CONSTRUCT FOR ALL AND THE<br>CONSTRUCT OF AN ALL SOLVER<br>CONSTRUCT OF A CONSTRUCT SOLVER                                                                                                       | Nation<br>Rooman |
|                    |                | HCB 2015 .                   |        |                    |               |                           |                                          |               |                                                                                                                                                                                                                                                        |                  |
|                    |                | arasa.                       |        |                    |               |                           |                                          |               |                                                                                                                                                                                                                                                        | t                |
|                    |                |                              |        |                    |               | 010 2                     | 5° %                                     | 59 -          | ALAN CONSIGNATION STREAMS                                                                                                                                                                                                                              |                  |
|                    |                |                              | 3.5-   |                    |               |                           |                                          |               | HTO MUCH PEOBABLY !                                                                                                                                                                                                                                    |                  |

|                    |          |                              |        |                    |       | JEBEL HARIO | CHA S                     | OUTH – L                                 | .0G           | HC 3                                                           |              |
|--------------------|----------|------------------------------|--------|--------------------|-------|-------------|---------------------------|------------------------------------------|---------------|----------------------------------------------------------------|--------------|
| phic               | phs      | 1.000                        |        | Colu               | umnar | Section     |                           | Structures                               |               |                                                                | -            |
| Stratigra<br>Units | Fhotogra | Cutcrop<br>Cata &<br>Samples | Relief | Compos.<br>Texture | Φ     |             | Trans-<br>port<br>Direct. | Sedimentary/<br>Diagenetic<br>Structures | Bio-<br>turb. | Additional Description                                         | Fossil Cont. |
|                    |          |                              |        |                    |       |             |                           |                                          |               |                                                                |              |
|                    |          |                              |        |                    |       |             |                           |                                          |               |                                                                |              |
|                    |          |                              |        |                    |       |             |                           |                                          |               |                                                                |              |
|                    |          |                              |        |                    |       |             |                           |                                          |               |                                                                |              |
| 34                 |          |                              |        |                    |       |             |                           |                                          |               |                                                                |              |
|                    |          |                              |        |                    |       |             |                           |                                          |               |                                                                |              |
|                    |          |                              | 00-    | ,                  |       |             |                           |                                          |               |                                                                |              |
|                    |          |                              |        |                    |       |             |                           |                                          |               |                                                                |              |
|                    |          |                              | 60-    |                    |       |             |                           |                                          |               |                                                                |              |
|                    |          |                              |        |                    |       |             |                           |                                          |               |                                                                |              |
|                    |          |                              |        |                    |       |             |                           |                                          |               |                                                                |              |
|                    |          |                              | 55-    |                    | ~     | T           |                           | 17/11-7                                  |               |                                                                |              |
|                    |          | HC8 53.5 •                   |        |                    |       |             |                           |                                          |               |                                                                |              |
|                    |          | Nan Circ                     |        |                    | ~     |             |                           |                                          |               | TOP LEON COTTA RECUMENSUES /<br>ERODED SESSED TO<br>STRUCTURES |              |
|                    |          | 1903 503 1                   |        | 1222               |       | 5           |                           | =/15-3                                   | 5             | TOP IFON CONCERTIONS BOTWIES                                   |              |

| _     |              |                             |        |                    | JEBEL HARI                    | CHA                       | NORTH -                                  | LOG           | 5 R 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             |
|-------|--------------|-----------------------------|--------|--------------------|-------------------------------|---------------------------|------------------------------------------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| aphie | aphs         |                             |        | Colu               | umnar Section                 |                           | Structures                               |               | 1.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |             |
| Units | Photogr      | Outcrop<br>Data &<br>Sample | Relief | Compos.<br>Texture | Φ × · · · · · · · · · · · · · | Trans-<br>port<br>Direct. | Sedimentary/<br>Diagenetic<br>Structures | Bio-<br>turb. | Additional Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Fossil Cont |
|       |              | HEB235                      | 25 -   |                    |                               |                           |                                          |               | Norde and a second | 0 SANEAL    |
|       |              |                             |        |                    |                               |                           |                                          |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | TCH D       |
|       |              | HEGIOS                      | 20-    |                    |                               |                           |                                          |               | VERY DARK BREY HANCL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |             |
|       | 1            | HE8AS                       |        |                    |                               |                           |                                          |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |
|       |              | HRO PHS                     | 15:-   |                    |                               |                           |                                          |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |
|       |              |                             |        |                    |                               |                           |                                          |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |
|       |              | HADIO<br>HRGIO              | - 10 - |                    |                               |                           |                                          |               | BLEULARS & CISTA<br>BILLARS & CISTA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 8           |
| 1     | 43009<br>*82 | HR9 6 6                     |        |                    |                               |                           |                                          |               | LUNTER REAL HOLES LITTIONS<br>CLAY HATED FEW FISTL FEADER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3           |
|       |              | HRB 3.7                     | 5 -    |                    |                               |                           |                                          |               | DARY GREY BLEWSA MARLY SLLT<br>SOME SABIL REHANSE & BURLE<br>SAME & BELOW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | *Q          |
|       | W3009        | HR&0)<br>HR&01              |        |                    |                               |                           |                                          |               | BEOMANGALGARY AND DARLE BINE<br>MAKUY GUTSTONG LONTH LARGE<br>FOODUS, BIGH CONSELUTE A TION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | @ 778       |

|                     |           |                              |        |                              |                           | JEBEL HAR | ICHA                      | NORTH –                                  | LOG           | R 2                            |              |
|---------------------|-----------|------------------------------|--------|------------------------------|---------------------------|-----------|---------------------------|------------------------------------------|---------------|--------------------------------|--------------|
| thic                | shs       |                              |        | Coli                         | umnai                     | Section   |                           | Structures                               | 1000          |                                |              |
| Stratigrap<br>Units | Photograp | Outcrop<br>Data &<br>Samples | Relief | Compos.<br>Texture           | ۵                         |           | Trans-<br>port<br>Direct. | Sedimentary/<br>Diagenetic<br>Structures | Bio-<br>turb. | Additional Description         | Fossil Cont. |
|                     |           |                              |        |                              |                           |           |                           |                                          | The second    | R 150m 5-8 in S-section        |              |
|                     |           |                              | 191    |                              |                           |           |                           | and the second                           |               |                                |              |
|                     |           |                              | 11.10  |                              | Contraction of the second |           | 1                         |                                          |               |                                |              |
|                     | Ser - Ser |                              |        |                              |                           |           |                           |                                          |               | and the second second          |              |
|                     |           |                              |        |                              |                           |           |                           |                                          |               | 自時人的代表等                        |              |
|                     |           |                              | 100    |                              |                           |           |                           |                                          |               | HEB 99<br>102<br>107.5 + 104.5 |              |
|                     |           |                              |        |                              |                           |           |                           |                                          | 1 institution | 186<br>141<br>145,5            |              |
|                     |           |                              |        | 10 - 10 - 10<br>10 - 10 - 10 |                           |           |                           |                                          |               | 149,5                          |              |
|                     | THE REAL  |                              | 40     |                              |                           |           |                           |                                          |               |                                |              |
|                     |           |                              |        |                              |                           |           |                           |                                          |               |                                |              |
|                     |           |                              |        |                              |                           |           |                           |                                          |               |                                |              |
|                     |           |                              |        |                              |                           |           |                           |                                          |               | The state of the second        |              |
|                     |           | HR3 35.5                     | × 45   |                              |                           |           |                           |                                          |               | 1.                             |              |
|                     |           | (Carlos)                     |        |                              |                           |           |                           | - Kalan Pres                             |               |                                |              |
|                     |           |                              |        |                              |                           |           |                           |                                          |               |                                |              |
|                     |           | 828 32.5                     |        |                              |                           |           | 1                         |                                          |               |                                |              |
| 1                   |           |                              |        |                              |                           |           |                           |                                          |               |                                |              |
|                     |           | HAB 195                      | 4      |                              |                           |           |                           |                                          |               |                                |              |
| 1                   |           |                              |        |                              |                           |           |                           |                                          |               |                                |              |
|                     |           |                              |        |                              |                           |           |                           | -                                        |               |                                |              |
|                     | ALC: N    | URB 26.5                     |        |                              |                           |           |                           |                                          |               | JAA USCHAS                     |              |

|       | łłs               |                                          |        | Colu                         | Imnar Section                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                           | Structures                               |               |                                                                                                                                                                                                                                                                        |             |
|-------|-------------------|------------------------------------------|--------|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|------------------------------------------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| Units | Fhotograp         | Cutcrop<br>Deta &<br>Samples             | Relief | Compos.<br>Texture           | $\Phi \xrightarrow{ q_{i} q_{i}} \left[ \begin{array}{c} q_{i} q_{i} \\ q_$ | Trans-<br>port<br>Direct. | Sedimentary/<br>Diagenetic<br>Structures | Bio-<br>turb. | Additional Description                                                                                                                                                                                                                                                 | Fossil Con  |
|       | W035.0<br>- 04705 | HSB-25                                   | 25-    |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                           | 4 4                                      | 55            | IROW COLLEGT + p of<br>UNEW FINE ENDERS, ADDRESS<br>BOTTOM FILLELY PREALES. LANIMATED<br>TOP HARLY SUITTOWERS. BUACL AGAIN<br>SUG TO SOM DESCRESS. BUACL AGAIN<br>MELLIGATE COLLEGE SUITTOW<br>INSURANT COLLEGE SUITTOW<br>INSURANT COLLEGE SUITS OF SHALL MULLICOUTTE | 0.5%~       |
|       |                   | н5р 22 .                                 |        |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                           |                                          | 5             | IDAN TOP + BOTTEN, SHITTALS<br>2. HORE ILDUCATED, HARE CARA<br>CEMENTED ADEX JUSTICANE, DILAIDED<br>AND SHELL GEMALING STEM MAX                                                                                                                                        | 7 B.        |
|       |                   | HSG 19                                   | 20-    |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                           |                                          |               | GREY SILTST, AS USUAL NOT INDURATED                                                                                                                                                                                                                                    |             |
|       |                   | HSB-18,5<br>HS6 18,5                     | -      |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                           |                                          |               | SANDS HAVE NOT CHANNED HUCH<br>LACK BF CENENTS HAVES CLASHFIDHT.<br>HARD                                                                                                                                                                                               |             |
|       |                   | HSB-16-                                  |        |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                           |                                          |               | 474 BADH CLASTS AND SHELL REMAINS<br>PROGRAM GLUAUSE<br>WANT GROU SULTOTONIE                                                                                                                                                                                           |             |
|       |                   |                                          | 15-    |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                           | - 1 A                                    |               | TOP ISON CONCRETIONS                                                                                                                                                                                                                                                   | *           |
|       |                   | HSB 13 -                                 | -      |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                           |                                          |               | - THIN 3 5 - BOH SAUD                                                                                                                                                                                                                                                  |             |
|       |                   | HSG 11-<br>HSG 71-<br>HSG 71-<br>HSB-10- | 10-    | N.8575                       | at an                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                           | 1.                                       | y -           | CANTER SOL BOTTON + 10045<br>CRYSTALLINE SOL BOTTON + 10045<br>SHITTOURSET THIN LAYER ON TOP<br>CANTER SOLAN SOL                                                                                                                                                       |             |
|       | -03               |                                          | 1100   | ad an 1935<br>States an 1935 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                           | *=                                       | 50            | RADU CANT THE RECTOR AND<br>HARD CANT THE PICT<br>ROU CONCEPTIONS OUTOD-SHITEMUS<br>HOTOBERATION, SHERE BOTTONS CHILD<br>CONDUCTOR AND CANTON OF AND<br>CONDUCTOR AND CANTON AND<br>MANY CANTON                                                                        |             |
|       | W0135<br>-01      | ⇔.<br>HSB-7 ·                            |        | ini andra<br>Nata Nata       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                           |                                          |               | S & BLACK CLARTS & FIGH. FRIGHTAM<br>PROSING LAN/LATED, HARDAY<br>UND ISLE DUE TO LOND BETREMENTION                                                                                                                                                                    |             |
|       | 1                 | MRM1 .<br>HSH5                           | 5      |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                           |                                          |               | FINE + SUT MOR CERTIFIC TO THE COMPOSITE SUIT LAYER WALL + UF SAND<br>BOTTOM ERGY LOOKER, LARGER MANTE                                                                                                                                                                 | elacil<br>S |
|       |                   | HSB-4-                                   | -      |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1010                      | HARKER                                   | 5             | CONDODUNE BOTTOM IBOUCCLECE + ENGINE<br>DIVLOTTEM ATTOM<br>SERVICE<br>SULT SCHOOL CONSELE WIGHT UDIATED<br>SULT SCHOOL DE WIGHT UDIATED                                                                                                                                | TO FINE     |
|       |                   | HSB-1 -                                  |        |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                           |                                          | 5             | OSNIDET HUD ANDONNETS A CH<br>COMPANITE, TLAYERSA TOD GLUT<br>BIOTURD, URTICAL D.S.S.H<br>2 % DIANGLURTICAL D.S.S.H<br>2 % DIANGLURTICAL D.S.S.H<br>2 % DIANGLURTICAL DIMENSES<br>POSSURY HUSTRY<br>COSCIDENT SHARL BUMANESS                                           | F           |
|       | w92:0             | HSG 0,2                                  | -      |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                           |                                          | 5?            | SUGARY CONTREP TOP<br>SECONTRACTOR CHARGE UP 35                                                                                                                                                                                                                        |             |

| phic<br>phs        | 12        | a se | -     | Columnar Section Struct               |          |       |       |                | Structures                 |      |                                          | 1            |
|--------------------|-----------|------------------------------------------|-------|---------------------------------------|----------|-------|-------|----------------|----------------------------|------|------------------------------------------|--------------|
| bratigraph<br>nits | hotograph | utcrop<br>ata &<br>amples                | elief | Compos.<br>Texture                    | annar Se |       | Steam | Trans-<br>port | Sedimentary/<br>Diagenetic | Bio- | Additional Description                   | Fossil Cont  |
| Ø 5                | ā.        | 040                                      | Ű.    |                                       | đ        | Ĭш    | il.   | Direct.        | Structures                 | caro |                                          |              |
|                    |           | HSG+HS8 505                              | -     |                                       | nir e    | 1     |       | -9             |                            |      |                                          |              |
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|                    |           | 1.2                                      |       | 1.516.4340                            |          | - 3   |       |                |                            |      | CONCORSETS                               |              |
|                    |           | H5648-                                   |       | · · · · · · · · · · · · · · · · · · · |          |       |       |                |                            |      |                                          |              |
|                    |           |                                          |       |                                       |          |       |       | 1              | 4                          |      |                                          |              |
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| 0.373              |           |                                          | 1     | Sector Conte                          |          | 17    |       |                | ~                          |      | Boundary company warment                 | 1 1 1        |
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| -                  | Ξ         | 1.1170 -                                 | 18-   |                                       |          | 1     |       | ÷.             |                            | +    | un part la Eli di la ficia i             |              |
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|                    |           | H5638,7_                                 | 1 and |                                       | Phone 1  | 4     |       |                | 1. 201                     |      | K & ISBANS GRANCESTY BAN.                |              |
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|                    |           |                                          |       |                                       | _        | L     |       |                | 12                         |      | DAY STREET                               | V preserver. |
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| HST+H              | 5631,f    | 7                                        | 10-   | 14747                                 |          |       |       |                |                            |      |                                          |              |
|                    | e.        |                                          |       |                                       |          | 1     |       |                | - = 1                      | 1    |                                          | 10.1915      |
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| -                  |           | HS8-28,5-                                | -     |                                       |          |       | 1     |                |                            |      | NET INSTRUT BLACK CEANSS                 | 0.8          |
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|                    |           |                                          |       |                                       |          | T     |       | 0.00           |                            |      | CHAMPELUS                                | 133          |
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|                    | 1.1.1     |                                          |       | · · · · · · · · · · · · · · · · · · · |          |       | 1.1.4 |                |                            |      | TELACIE SEATLAS INS                      |              |

|                    |                    |                                          |        |                            |          | JEBEL HAR | ICHA                      | NORTH -                                  | LOO           | G S 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |             |
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| phic               | phs                |                                          |        | Col                        | umnar S  | ection    |                           | Structures                               |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             |
| Stratigra<br>Units | Photogra           | Cutcrop<br>Cata &<br>Samples             | Relief | Compos.<br>Texture         | Φ        |           | Trans-<br>port<br>Direct. | Sedimentary/<br>Diagenetic<br>Structures | Bio-<br>turb. | Additional Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Fossil Cont |
|                    | HSI                | HIS6739<br>HSG73,6<br>SHHSB73,5          | 2 27   | o const fuip<br>Scons best |          |           |                           |                                          |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             |
|                    |                    | H5B 69,8                                 | 70-    |                            |          |           |                           |                                          |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             |
|                    |                    | HKB 67 -                                 |        |                            |          |           |                           |                                          |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             |
|                    |                    |                                          | 65 -   |                            |          |           |                           |                                          |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             |
|                    | HSG                | +HSB 635-<br>HSC 62 fr<br>HSC 62 -       |        | Some top<br>Cowy base      |          |           |                           |                                          |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             |
|                    |                    | 11-5 65                                  |        | nana:                      | a. o . 1 |           |                           |                                          | \$            | HIDDLE SLOTUKONTED.<br>TSITTIMT Duodiktisi-Aus Huddless                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |             |
|                    |                    | HSB 57 -                                 | -      |                            | ~        |           |                           | ve 4 4                                   | 1             | They survey be in someour,<br>Usey conver                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |
|                    | Build and a second | 458 SJ.S-                                | -      |                            |          | HARK.     |                           |                                          | →<br>5 .<br>5 | MASSIVE THE STATELES BEEN THE STATE PARTY AND A STATE | сн.         |
|                    | -10                | HS6,53,1-<br>HS6 S0,8 -<br>HS894/66 595- |        |                            | 4        |           |                           | ę                                        |               | DENINE, SMOTONE, STUDDEN<br>Multicut                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             |







|                    | JEBEL HARICHA NORTH – LOG S 4        |                                     |              |                    |               |                                                                                                |                                          |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                     |  |  |
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| phic               | phs                                  |                                     |              | Coli               | umnar Section |                                                                                                | Structures                               |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                     |  |  |
| Stratigra<br>Units | Photogra                             | Cutcrop<br>Data &<br>Samples        | Relief       | Compos.<br>Texture |               | Trans-<br>port<br>Direct.                                                                      | Sedimentary/<br>Diagenetic<br>Structures | Bio-<br>turb. | Additional Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Fossil Cont.                        |  |  |
|                    | 100648<br>- 00<br>W3610<br>- 07      | H38143,5-                           |              |                    | MA            | 412 + 1000<br>2.5" + 121<br>2.5" + 121<br>2.5" + 134<br>3.5" + 145<br>8.5" + 145<br>8.5" + 145 | 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  |               | Topsets cultorised<br>The coordinas + Hunticle Disections<br>channel of social<br>MVD: Legennel Jepsit?<br>Topsets fight of a 10 - 00 - muccus<br>muccustor fight of a 10 - 00 - muccus<br>muccustor fight of the coordinates<br>muccustor fight of the coordinates | 1<br>52°→ 500 Aw                    |  |  |
|                    | 2000<br>2000<br>2000<br>2000<br>2000 | тулбат са<br>456-1338-<br>456-13285 | <u>169</u> - |                    |               |                                                                                                | 3/1 44                                   |               | HIGHLY MOURTED BODSHIAYEL<br>SUPPLY ANALOLOHOPO PURCH<br>DEDUCTOR MARE DATIONALS<br>LANDAR TROUCH AND PURCH<br>LANDAR TROUCH AND TOP STANDARD<br>DISANDET TOWN TOP STANDARD<br>ALL DREAMER LAN<br>9 DEM<br>9 DEM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | n.1 %:                              |  |  |
|                    | Nolo<br>-oy                          |                                     | 135          |                    |               | 5                                                                                              | £ 4                                      |               | 36'- SOD HIN<br>ORANGING ULDUARDO, COMPOSITION<br>OF THINGEDS SHIPCH ONSESTING<br>OF THINGEDS SHIPCH ONSESTING<br>OF THINGEDS SHIPCH ONSESTING<br>OF THINGED OF THING OF THINGS<br>THOSE SECTION OF THINGS OF THINGS<br>ONAVIA DESCRIPTION OF THINGS OF THINGS<br>ONAVIA DESCRIPTION TO AND THE THINGS OF THINGS OF THIS<br>ONAVIA DESCRIPTION TO AND THE THINGS OF THE THIS<br>ONAVIA DESCRIPTION TO AND THE THIS OF THE THIS OF THE                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ECAD<br>NA<br>SUADALE<br>LARG (CHEM |  |  |
|                    |                                      | 2/058-419g                          |              |                    |               |                                                                                                |                                          |               | Development Actuary Experies<br>billion person and the provide<br>WF + 123 - NW<br>Development Contractions (100-100)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                     |  |  |
|                    |                                      | H&B 131,8.                          | 4            |                    |               |                                                                                                | 1.<br>                                   |               | Honte Hamp/Life<br>STRUCTUM ELLINED.<br>SUBJECTION FOR CONSISTENT<br>NASSIDE TODO TODO<br>DOTORTODO TODO<br>DOTORTODO TODO<br>LEHNARDO UTS ZELT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                     |  |  |
|                    | u se                                 | HSG129 -<br>HSG129 -<br>HSG1281-    | 190          |                    | +             | 10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>1                | 1 4 2 4 3                                |               | THE INCOME STOLE AND ALL AND ALL A GREAT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | u<br>pr. Hup<br>pr. des             |  |  |
| Hst                | 127-                                 | VOLH<br>VOLH<br>60+02 W             |              |                    |               |                                                                                                | -1 I                                     |               | LAN NAME OF ANY RETTON<br>REALL DEFINITION<br>REALL DEFINITION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                     |  |  |
|                    | 94064 <del>0</del><br>29.            | HSB 195 -                           | 您-           |                    |               |                                                                                                | S. S.                                    |               | Townews Top, Record of Ayach<br>Hotel Hacking<br>Contrawally Borton Relations Large 8,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                     |  |  |
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|                    | Wolie<br>-Di                         |                                     | 720          |                    | 10            |                                                                                                | 4                                        | -             | SUI GERV IN SALADAD, POSSIELE SAM<br>200 INSTRUME<br>PROVING PARTIES DUE TO LOTS<br>OLL & HING DERIGIATION<br>BLOWING TEP COMELE SALT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                     |  |  |



| Units | phs        |                              |        | Colu               | mnar Section                                                                                                    |                           |                                          |               |                                                   |               |
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|       | Photograph | Outcrop<br>Data &<br>Samples | Relief | Compos.<br>Texture | Φ 34 ~1                                                                                                         | Trans-<br>port<br>Direct. | Sedimentary/<br>Diagenetic<br>Structures | Bio-<br>turb. | Additional Description                            | Fossil Con    |
|       |            |                              |        |                    |                                                                                                                 |                           |                                          |               |                                                   |               |
|       |            |                              |        |                    |                                                                                                                 |                           | Martin                                   |               |                                                   |               |
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| 1<br>1<br>2 | 4                |                              | -      | Col                               | umnar Section                         |            |                          | Structures                                        |               | 17.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                 |
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| Stratigrap  | Photograp        | Dutcrop<br>Data &<br>Samples | Relief | Compos.<br>Texture                | Φ →                                   | ))))<br>~1 | Trans-<br>port<br>Direct | Sedimentary/<br>Diagenetic<br>Structures          | Bio-<br>turb. | Additional Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Fossil Cont     |
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|             | +                |                              | 9      |                                   |                                       |            |                          |                                                   |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                 |
|             |                  | NBC 7.)                      | 8      | Press.                            |                                       |            |                          |                                                   |               | more carbonate in comparison                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                 |
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|             | 13-1/3           |                              | Gr.    | Ling                              | · · · · · · · · · · · · · · · · · · · |            |                          |                                                   |               | Croishedding thig upminds                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                 |
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|             | Hanfet<br>Broker | VBC1.5                       | 1      | Rung<br>Contraction of the second | See -                                 |            |                          | to the S<br>Sena barrow                           | S             | bolton want of by adobted up to structure<br>bolton want of the adobted in bolton<br>promotion intervent on the bolton<br>upper 20 cm² want being to many to and<br>an approximation of the cont<br>possible of the c | A Specification |
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| phic                | shs      |                              | Columnar Section |                    |         |                                          |          |                           | Structures                               |               |                                                                                                                                         |                         |
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| Stratigrap<br>Units | Photogra | Oetcrop<br>Data &<br>Samples | Relief           | Compos.<br>Texture | Ø       | 11111<br>거 <sub>2</sub> 3                |          | Trans-<br>port<br>Direct. | Sedimentary/<br>Diagenetic<br>Structures | Bio-<br>turb. | Additional Description                                                                                                                  | Fossil Cont             |
|                     |          |                              |                  | 12.                |         |                                          |          |                           |                                          |               |                                                                                                                                         |                         |
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|                     |          | -                            | 10 -             |                    | Cook Sh | -088ca                                   |          |                           |                                          |               | 4000 PEDILE BAND DATE                                                                                                                   | EW. LACO                |
|                     | Å.       |                              |                  |                    | State   | 201                                      |          |                           |                                          |               | CHANNELS MINH WARE CURTS                                                                                                                | ARE<br>GRANTIS          |
|                     | × 1      | -                            |                  | X                  | 00000   | and a                                    |          |                           |                                          |               | PALEDSOLL, MONTTING CHARAELS                                                                                                            |                         |
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| -                   |          |                              |                  |                    |         |                                          |          |                           |                                          |               | LINETRON                                                                                                                                |                         |
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|                     |          |                              |                  |                    |         |                                          |          |                           |                                          |               | A CONTRACTOR                                                                                                                            |                         |
| 13                  |          | 24                           |                  |                    |         |                                          |          |                           | 113                                      |               |                                                                                                                                         |                         |
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|                     |          |                              |                  |                    |         |                                          |          |                           |                                          |               | CHANNERPHIE PACK STONE                                                                                                                  |                         |
|                     |          | 510                          | 5.0              |                    | 0000    | bezzier                                  |          |                           | 2015                                     |               | PEABLES DATO FELOCH NEX 3<br>LAPTALORED JEDED<br>PEABLES PRODUCED IN FRANKTED<br>FEMAL DATABASED AND AND AND AND AND AND AND AND AND AN |                         |
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|                     |          |                              |                  | 1111               |         |                                          | 1        |                           |                                          |               | PAROARE, PAROSCE / RECEAR<br>PROGREDU STILLOFLARES TIDCH<br>GRANTERE DESCRIPTION                                                        | AND LOODGES             |
|                     |          | 4                            |                  |                    | ARPene  |                                          |          |                           |                                          |               | DEREG LYELL RELEASED ~ TCH WE TO<br>TON DETRITIAL , MUSICIPHIE BACK SPOTS                                                               | Robert Torson           |
|                     |          | VTT 5.2 -                    |                  |                    | ospile. | 1 10 10 10 10 10 10 10 10 10 10 10 10 10 | 3        |                           | CHARLOUELD                               |               | GRANNET, THUNDERSON PERMIT PATRIC                                                                                                       |                         |
|                     | 24       | 175 3.0                      |                  | T T T              |         | 483                                      |          |                           |                                          |               | CONTINUE DELENSION CONTINUE<br>AVERAGE TOWARDS FUTIDLE                                                                                  |                         |
|                     |          | VIC 2. 6                     |                  |                    | 0.3.5.8 |                                          | 20<br>20 | % (人)<br>2 250人           | SST QUAR                                 | 2             | BUCKLEY ATTER AND HORE ARDALLAR,<br>BUCKUTHE MATRIX<br>FILE LANDATION, PLACE FIELD CARD                                                 |                         |
|                     |          |                              |                  |                    | 1       | - 0.26                                   | 60       | The LAN                   | EST : W                                  |               | DEALES 2 - S CHA HOURT AND TURES                                                                                                        |                         |
| 13                  |          | V7C17 .                      |                  |                    | 00.01   |                                          |          |                           | ~                                        |               | DA CHARM, DUBLANT<br>CAMPOALATE, MIDICLE TO CARDE<br>LAMILATED TROUGH CRIDESEED                                                         | CHAOTIC                 |
|                     |          |                              |                  |                    | and and | 1000                                     | 201      | LIME<br>GIND              | ST+66/CHRT<br>SST*04IAE<br>KISH          | N             | COUNTER ELTER, CAREANTE NEEDE<br>UpTTLERY CARE + PACET UPTOR<br>SCREATED BLOTTE VE SALD                                                 | DETRITAL<br>LINESTOLIES |
| 100                 | YL of    | H                            |                  |                    |         |                                          | 10       | 5 ANA<br>GE               | D FROM                                   |               | UELY EROSINE CONSTANT !<br>CHANNEL SHADED, INCIDION<br>ADDROXIMATELY OF \$ 15M                                                          |                         |
| Sel.e               | ~        |                              |                  |                    |         |                                          |          |                           |                                          | 555           | CONDTH MAX 5 H BENGLAST                                                                                                                 |                         |
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# MAHDOUMA SOUTH WEST – LOG VT

|       | a l            |                              |        | Col                | umna | Section                  |                           | Structures                               | -             | A. Carriel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |            |
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| Unids | Photograp      | Outcrop<br>Data &<br>Samples | Relief | Compos.<br>Texture | •    | 1111111111               | Trans-<br>port<br>Dircet. | Sedimentary/<br>Diagenetic<br>Structurca | Bio-<br>turb. | Additional Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Fossil Con |
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|       | 0-9-3<br>D-9-4 |                              |        |                    | -    |                          | 1 mars                    |                                          |               | to the ance of the period                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |            |
|       |                |                              | 4      | 2                  | -    |                          | 19+The                    | -                                        |               | and the second s |            |
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|       | n-n/m          |                              | P      |                    | -    | Gill-point-partici       |                           | Tencial                                  | N             | at boling Ebil's up have been the bride could -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | R          |
|       |                |                              |        |                    |      |                          | Parsti .                  | - Stite All                              |               | PLAT MAR and a start for the test of the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |
|       | 19.<br>E-1901  | ww.pag.sjul                  |        |                    | 100  | S 1                      | 2.0.7-4                   | 1 harris                                 | 12            | (14 + 207 5) firing grand fractionaly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Meria      |
|       |                |                              | 2      | 1                  | 12   | Silver                   |                           | - Jane                                   | 1             | more view latter for                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |            |
|       |                |                              |        | 24                 |      |                          |                           |                                          |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            |
|       |                | WHE I.S.                     |        |                    |      | (Ellistance)             |                           | I Porti la                               |               | reading and owned become constru                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |            |
|       |                |                              | 1      |                    | 1    |                          | 8+3033                    |                                          |               | children of concentration challen in markets                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |            |
|       |                |                              | 1      |                    |      |                          | S4004                     |                                          |               | Courty and other than of the second at the second                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |            |
|       |                |                              |        | -                  |      | Strathing                |                           |                                          |               | astronomi for the sector in provide the astronomy of the sector of the s | 10000      |
|       |                | VMC 0,2                      |        |                    | 0    | 1. 0. 1. 1. 0<br>1. 0. 1 |                           |                                          |               | extunctions fine - pipels, roundad.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | den        |
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