4245 Park Approach
Thorpe Park
Leeds
LS15 8GB

Adam Clarke
Miller Homes Limited
Lapwing House
Peel Avenue
Calder Park
Wakefield
WF2 7UA

**Our Ref:** SDL4480A/NJI/001

**Date:** 6th June 2025

**SDL4480A Supplementary Probe Drilling Investigation at land off Hermitage Park, Lepton**

Sirius Drilling Limited were commissioned by Miller Homes Limited (Millers) to undertake a programme of targeted rotary core drilling to investigate potential shallow mineworkings at their proposed development site at Hermitage Park, Lepton. It is understood that Millers intend to develop the site with residential properties, private gardens and associated infrastructure.

Sirius have previously undertaken a programme of rotary probe drilling at the site, the findings of which are presented in a Geoenvironmental Appraisal Report (ref. C10281) prepared by Sirius Geotechnical Limited in December 2024. The Sirius investigation identified a sequence of shallow coal seams but the Crow Coal seam, which lies within influencing distance of the surface was found to be intact, thin and of poor quality. However, an earlier intrusive investigation undertaken by FWS Consultants in 2022 interpreted the findings of their own rotary probe drilling as shallow mine workings.

The intention of these supplementary works was to locate the FWS boreholes in question and drill additional holes immediately adjacent, with rotary coring undertaken across the depth range where suspected mineworkings were previously identified.

## 1.0 Site Details and Description

The site is located approximately 7km southeast of the Huddersfield town centre in the village of Lepton at National Grid Reference 419220, 414620. The site covers an area of approximately 5.3Ha and comprises undeveloped agricultural fields with tree lined field boundaries, forming several parcels of land. Access to the site is from Hermitage Park to the west. Lepton Great Wood forms the eastern and southern site boundaries.

The site generally slopes from the west up towards the east and northeast, from a low point of 136mAOD to a high point of 149m AOD.

## 2.0 Geological Setting

A summary of available published geological information and geological conditions present at the site is provided in **Table 0.1**.

**Table 0.1: Geological Summary**

| | |
|---|---|
| **Sources of Information** | • BGS 1:10,000 scale geological map (Sheet SE 11 SE, Kirkburton)<br>• BGS 1:50,000 scale geological map (Sheet 77, Huddersfield)<br>• Coal Authority (CA) Consultants Coal Mining Report Ref. 51003457018001 |
| **Made Ground** | No made ground is recorded on the published BGS map. |
| **Drift Geology** | No superficial deposits is recorded on the published BGS map. |
| **Solid Geology** | The site is shown to be underlain by Carboniferous Pennine Lower Coal Measures Formation (PLCMF) strata, comprising undifferentiated LCM strata in the east and Kirkburton Sandstone in the west. A thin un-named sandstone band is shown within the northeastern extent of the site.<br>No faulting is recorded on or within the immediate vicinity of the site. |
| **Mining and Quarrying** | **Coal Seams:**<br>The **Crow Coal** is conjectured to outcrop through the centre of the site in an approximate northwest-southeast orientation, dipping towards the |

| | |
|---|---|
| | northeast. The seam is recorded as '3 inches' [7cm] thick to the north of the site.<br><br>The **Black Bed Coal** is conjectured to outcrop c.20m to the west of the site in an approximate northwest-southeast orientation, dipping towards the east / northeast. The seam is recorded as '1 ft 6 inches' [0.45m] thick.<br><br>The **Better Bed Coal** is conjectured to outcrop c.350m to the west of the site, again orientated approximately northwest-southeast and dipping to the east / northeast. The coal is shown to outcrop beyond a fault line, in a separate fault block to the site. The seam is recorded as '1 ft 6 inches' [0.45m] thick.<br><br>**Coal Mining:**<br><br>The CA mining report records workings within the Black Bed coal seam, at depths of between 37m and 41m and an extraction thickness of 50cm.<br><br>It was also noted that unrecorded shallow workings may be present beneath the site.<br><br>**Mine Entries:**<br><br>The Victoria Colliery Air Shaft (CA ref. 419414-004) is located 5m to the west of the site. The CA report states that '*a partial search by trial trenching to the east of Hermitage House did not locate the shaft*'.<br><br>**Opencast Coal & Quarries:**<br><br>There are a number of historic sandstone quarries within the broader area but no evidence of any within or immediately adjacent to the site. |

## 3.0 Previous Investigations

A number of previous ground investigations relating to the site have been undertaken. Of specific relevance to this supplementary investigation is the FWS report referenced below

***Phase 2 Ground Investigation by FWS Consultants, dated January 2024 (report ref. 3959OR01 Rev03).***

The report included the findings of a series of rotary open hole boreholes drilled to investigate potential shallow mining below the site. FWS reported that:

*"Bedrock was found to comprise highly weathered mudstone interbedded with sandstone and was proven at depths of between 0.9 m to 3.1 m bgl. Thin coal seams (0.1 m to 0.4 m thick)*

*were encountered near surface, and evidence of mine workings in the form of voids and loss of flush returns, generally of between 0.3 m to 0.9 m thick, were encountered at depths of between 4.9 m to 18.6 m bgl."*

FWS inferred evidence of mine workings within the Crow Coal and Black Bed, and recommended probe drilling to confirm the presence of competent cover above the Black Bed and drill and grout stabilisation within the Thin Coal and Crow Coal which were considered to be within influencing depth of the proposed development.

Sirius Geotechnical Limited undertook a Supplementary Geoenvironmental Appraisal in December 2024 on behalf of Miller Homes, which comprised a review of the earlier investigations and a programme of further intrusive investigations. This included a further 35 rotary open hole boreholes drilled to further investigate the shallow coal setting below the site. Although the sequence of coal seams broadly correlated with the FWS findings, no voids or evidence of workings was recorded in the Crow Coal and the Black Bed Coal was found to be worked but with sufficient competent rock cover, such that treatment is not required.

## 4.0 Fieldwork

It was proposed to locate the six FWS boreholes which inferred evidence of mineworkings in the Crow Coal and undertake additional boreholes immediately adjacent to them with spot cores across the depth range where voids were recorded.

### *Location of FWS Boreholes*

Precise grid reference locations for the FWS boreholes were not provided within their report so the hole locations were approximately inferred from the exploratory hole layout plan and a localised topsoil strip was undertaken across the area utilising a JCB 3CX. Four of the FWS boreholes were positively located by this process, allowing the cored holes to be drilled immediately adjacent. Two were not located and cored holes were drilled in what was considered a best-fit location, based on the relative position to the adjacent field boundaries.

A summary of the FWS boreholes and Sirius cored hole locations is provided in Table 4.1.

**Table 4.1 Borehole Location Summary**

| Sirius BH Ref | FWS BH Investigated | FWS Confirmed Grid Reference | | Ground level (mAOD) |
|---|---|---|---|---|
| CBH01 | RBH1 | 419341.16 | 414770.30 | 142.97 |
| CBH02 | RBH2 | 419288.60* | 414737.40* | 138.53 |
| CBH03 | RBH4 | 419303.68 | 414682.68 | 137.91 |
| CBH04 | RBH6 | 419327.36* | 414629.96* | 138.57 |
| CBH05 | RBH7 | 419355.13 | 414566.37 | 138.17 |
| CBH06 | RBH8 | 419261.28 | 414535.27 | 134.24 |

*Sirius BH drilled position where FWS BH not located

### *Drilling Works*

Six boreholes were drilled by Sirius to mirror the locations of the FWS holes. Each hole was open hole drilled to a point a minimum of 1.0m above the potential workings identified by FWS.

Full copies of the drill logs are included in Appendix B and summarised below in Table 4.2.

**Table 4.2 Target Horizon Strata Summary**

| FWS BH Investigated | Horizon to be investigated | Sirius BH Ref | Core Run (mBGL) | Strata Recorded in Core Run (Depth mBGL) |
|---|---|---|---|---|
| RBH1 | Void at 16.0-16.5mBGL | CBH01 | 15.0-18.0 | Sandstone 15.0-16.0<br>Fractured Sandstone 16.0-18.0<br>100% loss of flush 16.20-18.0 |
| RBH2 | Void at 8.3-9.2mBGL | CBH02 | 7.0-10.0 | Mudstone 7.0-9.0<br>Weathered Sandstone 9.0-11.0<br>No loss of flush |
| RBH4 | Void at 8.9-9.2mBGL | CBH03 | 7.0-10.0 | Sandstone 15.0-16.0<br>Fractured Sandstone 7.2-10.0<br>100% loss of flush 7.2-8.0<br>40% loss of flush 8.0-10.0 |
| RBH6 | Void at 9.1-9.4mBGL | CBH04 | 8.0-11.0 | Fractured Sandstone 8.0-11.0<br>100% loss of flush 8.0-11.0 |
| RBH7 | Void at 10.1-10.7mBGL | CBH05 | 8.5-11.5 | Sandstone 8.5-11.5<br>No loss of flush |
| RBH8 | Void at 4.9-5.3mBGL | CBH06 | 3.5-6.5 | Sandstone 3.5-6.3<br>Mudstone 6.3-6.5<br>100% loss of flush 3.5-6.5 |

The supplementary holes were extended by open hole techniques to confirm the sequence of strata identified within the earlier investigations, including the Crow Coal, shallower thin unnamed coal and deeper Black Bed Coal.

## 5.0 Conclusions

Based on the findings of these supplementary works it is considered that the voids identified by FWS are representative of fractures within the sandstone unit rather than evidence of a worked coal seam. Fracturing within sandstone units commonly presents along bedding planes and as joints, which are perpendicular to the bedding plane. As such, a borehole which intersects a joint fracture could feasibly be interpreted as voiding, especially when combined with the loss of drilling flush which can commonly occur in such strata.

On this basis it is considered that there is no longer a requirement for treatment of shallow mineworkings below the site and as such, the recommendations previously made by Sirius Geotechnical in their Supplementary Geoenvironmental Appraisal with regards to the requirement for treatment will be updated to reflect this new information and reissued in due course.

We trust the information contained within this letter report is satisfactory, however, if you have any queries or require further information, please do not hesitate to contact the undersigned.

Yours faithfully



**Nick Ireland** | Technical Manager | Drilling

M 07885 803452
T 0113 264 9960
E nick.ireland@thesiriusgroup.com
W www.thesiriusgroup.com

Enclosures.
Drawing No. SDL4480A - Exploratory Hole Layout Plan
Drillers Logs




NOTES

- Site Boundary
- FWS 2022 Rotary Borehole Location
- Sirius 2024 Rotary Borehole Location
- Sirius 2025 Cored Borehole Location

| REVISION | | BY | DATE |
|---|---|---|---|
| 0 | For Information | >> | >> |
| A | >> | >> | >> |
| B | >> | >> | >> |
| C | >> | >> | >> |
| D | >> | >> | >> |

SIRIUS
DRILLING LTD
4245 Park Approach,
Thorpe Park,
Leeds
LS15 8GB
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TEL: 0113 264 9960
FAX: 0113 264 9962

CLIENT

**MILLER HOMES LIMITED**

SITE

**HERMITAGE PARK**
**LEPTON**

DRAWING TITLE

**EXPLORATORY HOLE LOCATION PLAN**

| DRAWING NO. | REVISION NO. |
|---|---|
| SDL4480A/LR/01 | 0 |

| DRAWN BY | APPROVED BY |
|---|---|
| NJI | AGT |

| DATE | SCALE | PAPER SIZE |
|---|---|---|
| JUNE 2025 | 1:1,000 | A2 |

# SITE INVESTIGATION DRILL LOG

Sirius Drilling
4245 Park Approach, Thorpe Park
Leeds LS15 8GB
Tel: 0113 264 9960
Fax: 0113 264 9962

Job No.: 4480A
Date: 21/5/25
Sheet: 1/1
Client: Miller Homes
Contract Name: Lepton
Working Day No.: Wednesday
Borehole No.: CBH01
Crew Details: C. Clapham, M. Haish

| Stratum Depth (M) From | Stratum Depth (M) To | Strata Description | Core Run From | Core Run To | Run Length (M) | Core Recovery (M) | Flush Return % | Casing Depth (M) | Casing Size | Water Strikes (M) | Installation Detail |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | 0.40 | Topsoil / Clay | 15.00 | 16.50 | 1.5 | 1.5 | 100 | 15 | 5' | N/A | |
| 0.40 | 6.00 | Sandstone | 16.50 | 18.00 | 1.5 | 1.5 | 0 | | | | |
| 6.00 | 7.50 | mudstone | | | | | | | | | |
| 7.50 | 7.70 | Coal | | | | | | | | | |
| 7.70 | 12.00 | mudstone | | | | | | | | | |
| 12.00 | 12.10 | Coal | | | | | | | | | |
| 12.10 | 14.00 | mudstone | | | | | | | | | |
| 14.00 | 16.00 | Sandstone | | | | | | | | | |
| 16.00 | 18.00 | Fractured Sandstone | | | | | | | | | |
| | | Lost flush at 16.20m (water flush) | | | | | | | | | |

**Remarks (standing, dayworks, testing etc)**

Borehole backfilled with gravel, 1m Bentonite Seal at top.
1x Bentonite

**Penetration Testing and Sampling**

| test | sample | Depth From | Depth To | Standard Penetration Tests 1 | 2 | 3 | 4 | 5 | 6 | N | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | |

| Casing | Size | Depth |
|---|---|---|
| | | |

Flush Type: Air / Water

Rig Type: C6xp4

Signed by SDL: [signature] Date: 21/5/25

Signed by Client: Date:

# SITE INVESTIGATION DRILL LOG

Sirius Drilling
4245 Park Approach, Thorpe Park
Leeds LS15 8GB
Tel: 0113 264 9960
Fax: 0113 264 9962

Job No.: 44804 | Client: Miller Homes | Borehole No.: CBH02

Date: 21/5/25 | Contract Name: Leeton | Crew Details: C. Clarkson

Sheet: 1 / 1 | Working Day No.: Wednesday | M. Haigh

| Stratum Depth (M) From | Stratum Depth (M) To | Strata Description | Core Run From | Core Run To | Run Length (M) | Core Recovery (M) | Flush Return % | Casing Depth (M) | Casing Size | Water Strikes (M) | Installation Detail |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | 0.50 | Top Soil / Clay | 7.00 | 8.50 | 1.5 | 1.5 | 100 | 1.5 | 5" | N/A | |
| 0.50 | 3.50 | Mudstone | 8.50 | 10.00 | 1.5 | 1.3 | 100 | | | | |
| 3.50 | 3.60 | Coal | | | | | | | | | |
| 3.60 | 9.00 | Mudstone | | | | | | | | | |
| 9.00 | 10.00 | Weathered Sandstone | | | | | | | | | |

**Remarks (standing, dayworks, testing etc)**

Borehole backfilled with Gravel, 1m Bentonite Seal at Top
1x Bentonite

**Penetration Testing and Sampling**

| test | sample | Depth From | Depth To | 1 | 2 | 3 | 4 | 5 | 6 | N |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | |
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| Casing | Size | Depth |
|---|---|---|
| | | |
| | | |

Flush Type: Air / Water

Rig Type: Cortex

Signed by SDL | Date: 21/5/25

Signed by Client | Date

# SITE INVESTIGATION
# DRILL LOG

sirius Drilling
4245 Park Approach, Thorpe Park
Leeds LS15 8GB
Tel: 0113 264 9960
Fax: 0113 264 9962

Job No.: 4480A | Client: Miller Homes | Borehole No.: CBH03
Date: 22/5/25 | Contract Name: Leeds | Crew Details: C. Clayton
Sheet: 1/1 | Working Day No.: Thursday | M. Haigh

| Stratum Depth (M) From | Stratum Depth (M) To | Strata Description | Core Run From | Core Run To | Run Length (M) | Core Recovery (M) | Flush Return % | Casing Depth (M) | Casing Size | Water Strikes (M) | Installation Detail |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | 0.50 | Topsoil / Clay | 7.00 | 8.50 | | 0.90 | 0 | | | | |
| 0.50 | 3.00 | Sandstone | 8.50 | 10.00 | | 1.50 | 60 | | | | |
| 3.00 | 3.10 | Coal | | | | | | | | | |
| 3.10 | 4.70 | mudstone | | | | | | | | | |
| 4.70 | 4.80 | Coal | | | | | | | | | |
| 4.80 | 5.50 | mudstone | | | | | | | | | |
| 5.50 | 7.20 | Sandstone | | | | | | | | | |
| 7.20 | 11.00 | Fractured Sandstone | | | | | | | | | |
| 11.00 | 12.00 | Sandstone | | | | | | | | | |
| 12.00 | 13.00 | mudstone / Dark mudstone bands | | | | | | | | | |
| 13.00 | 21.00 | mudstone + Sandstone bands | | | | | | | | | |

**Remarks (standing, dayworks, testing etc)**

0.00 - 7.20 100% Flush
7.20 - 8.00 0% Flush Lost
8.00 - 21.00 60% Flush returned
Borehole backfilled with gravel + 1m Seal 1 x Bentonite

Signed by SDL | Date 22/5/25
Signed by Client | Date

**Penetration Testing and Sampling**

| test | sample | Depth From | Depth To | Standard Penetration Tests 1 | 2 | 3 | 4 | 5 | 6 | N |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | |
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| | | | | | | | | | | |

| Casing | Size | Depth |
|---|---|---|
| | | |
| | | |
| | | |

**Flush Type** Air / Water

**Rig Type** Cboxy 4

# SITE INVESTIGATION DRILL LOG

sirius Drilling
4245 Park Approach, Thorpe Park
Leeds LS15 8GB
Tel: 0113 264 9960
Fax: 0113 264 9962

Job No.: L4880A | Client: Miller Homes | Borehole No.: CBH04
Date: 22/5/25 | Contract Name: Lepton | Crew Details: C. Clarke
Sheet: 1/1 | Working Day No: Thursday | M. Haigh

| Stratum Depth (M) From | Stratum Depth (M) To | Strata Description | Core Run From | Core Run To | Run Length (M) | Core Recovery (M) | Flush Return % | Casing Depth (M) | Casing Size | Water Strikes (M) | Installation Detail |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | 100 | 1.5 | 5" | N/A | |
| 0.00 | 0.40 | Topsoil / Clay | 8.00 | 9.50 | 1.5 | 1.40 | 0 | | | | |
| 0.40 | 4.50 | Sandstone | 9.50 | 11.00 | 1.5 | 1.40 | 0 | | | | |
| 4.50 | 4.60 | Coal | | | | | | | | | |
| 4.60 | 5.00 | Sandstone | | | | | | | | | |
| 5.00 | 5.20 | Coal | | | | | | | | | |
| 5.20 | 6.00 | Mudstone | | | | | | | | | |
| 6.00 | 6.10 | Coal | | | | | | | | | |
| 6.10 | 7.00 | Mudstone | | | | | | | | | |
| 7.00 | 8.00 | Sandstone | | | | | 100 | Air | | | |
| 8.00 | 11.00 | Fractured Sandstone | | | | | 0 | water | | | |
| | | 0% flush with water | | | | | | | | | |

**Remarks (standing, dayworks, testing etc)**

Borehole backfilled with gravel, 1m Bentonite Seal at top

**Penetration Testing and Sampling**

| test | sample | Depth From | Depth To | Standard Penetration Tests 1 | 2 | 3 | 4 | 5 | 6 | N |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

| Casing | Size | Depth |
|---|---|---|
| | | |
| | | |

Flush Type: Air / water

Rig Type: Cortex

Signed by SDL: [signature] Date: 22/5/25

Signed by Client: Date:

# SITE INVESTIGATION DRILL LOG

Sirius Drilling
4245 Park Approach, Thorpe Park
Leeds LS15 8GB
Tel: 0113 264 9960
Fax: 0113 264 9962

Job No.: 4480A | Client: Miller Homes | Borehole No.: CBH 5
Date: 23/5/15 | Contract Name: Leeton | Crew Details: C. Clayton
Sheet: 1/1 | Working Day No.: Friday | M. Haigh

| Stratum Depth (M) From | Stratum Depth (M) To | Strata Description | Core Run From | Core Run To | Run Length (M) | Core Recovery (M) | Flush Return % | Casing Depth (M) | Casing Size | Water Strikes (M) | Installation Detail |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | 1.50 | | 5.50 | 6.00 | 1.5 | 1.5 | 100 | 1.5 | 5" | WH | |
| 1.50 | 1.70 | Coal | 6.00 | 11.50 | 1.5 | 1.5 | 100 | | | | |
| 1.70 | 2.00 | mudstone | | | | | | | | | |
| 2.00 | 2.20 | Coal | | | | | | | | | |
| 2.20 | 4.50 | mudstone | | | | | | | | | |
| 4.50 | 4.60 | Coal | | | | | | | | | |
| 4.60 | 7.00 | mudstone | | | | | | | | | |
| 7.00 | 11.50 | Sandstone | | | | | | | | | |

**Remarks (standing, dayworks, testing etc)**

Borehole backfilled with Gravel, 1m Bentonite Seal at top

**Penetration Testing and Sampling**

| test | sample | Depth From | Depth To | Standard Penetration Tests 1 | 2 | 3 | 4 | 5 | 6 | N |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

| Casing | Size | Depth |
|---|---|---|
| | | |
| | | |

Flush Type: Air / Water

Rig Type: Comacchio

Signed by SDL | Date 23/5/15

Signed by Client | Date

# SITE INVESTIGATION DRILL LOG

Sirius Drilling
4245 Park Approach, Thorpe Park
Leeds LS15 8GB
Tel: 0113 264 9960
Fax: 0113 264 9962

Job No.: 4480A
Client: Miller Homes
Borehole No.: CBH6
Date: 23/5/25
Contract Name: Lepton
Crew Details: C. Clapham, M. Haigh
Sheet: 1/1
Working Day No.: Friday

| Stratum Depth (M) From | Stratum Depth (M) To | Strata Description | Core Run From | Core Run To | Run Length (M) | Core Recovery (M) | Flush Return % | Casing Depth (M) | Casing Size | Water Strikes (M) | Installation Detail |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | 0.50 | Topsoil / Clay | 3.50 | 5.00 | 1.5 | 1 | 0 | 1.5 | 5" | | |
| 0.50 | 2.00 | Mudstone | 5.00 | 6.50 | 1.5 | 1.2 | 0 | | | | |
| 2.00 | 6.30 | Sandstone | | | | | | | | | |
| 6.30 | 20.00 | Mudstone | | | | | | | | | |
| 20.00 | 21.00 | Coal | | | | | | | | | |
| | | Air 100% return | | | | | | | | | |
| | | Water 0% return | | | | | | | | | |

**Remarks (standing, dayworks, testing etc)**

Signed by SDL: [signature]
Date: 23/5/25
Signed by Client:
Date:

**Penetration Testing and Sampling**

| test | sample | Depth From | Depth To | Standard Penetration Tests 1 | 2 | 3 | 4 | 5 | 6 | N | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | |

| Casing | Size | Depth |
|---|---|---|
| | | |

Flush Type: Air / Water

Rig Type: C6 xy4

# OPENHOLE DRILL LOG

Job No. 4880A
Contract Name: Lepton
Working Day: ~~Mon~~ Tuesday

Date: 27/5/24
Client: Miller Homes
Sheet: 1 of 1

| Hole No. | From | To | Flush (W/A/M) | Casing T/S (m) | Strata Description |
|---|---|---|---|---|---|
| CBH04 | 11.00 | 12.00 | A | 1.5 | mudstone |
| Follow on | 12.00 | 13.00 | | | Dark mudstone |
| | 13.00 | 21.00 | | | mudstone / Sandstone |
| | | | | | |
| | | | | | |
| CBH02 | 10.00 | 13.00 | A | 1.5 | Sandstone |
| Follow on | 13.00 | 21.00 | | | mudstone / Sandstone |

Rig Type: C6xP4

Crew Details:
C. Clayton
M. Haigh

Remarks:
Boreholes backfilled with gravel + sealed with bentonite

Gas Monitoring

| % | $O_2$ | $CO_2$ | $CH_4$ | CO |
|---|---|---|---|---|
| Start | 20.8 | - | - | - |
| Mid | | | | |
| End | | | | |

Weather Conditions:
C.M

| Boreholes Total | |
|---|---|
| Today | 2 |
| Previous | |
| To Date | |

| Drilled Total | |
|---|---|
| Today | |
| Previous | |
| To Date | |

| Casing Total | |
|---|---|
| Today | |
| Previous | |
| To Date | |

Signed by Sirius Drilling Ltd:

Signed by Client:

T = Temporary, S - Sacrificial

White - Office Copy  Pink - Site Copy