

**Well Information**

**Operator:** ConocoPhillips Canada Resources Corp.  
**Well Name:** COPRC Loon Creek O-6  
**Location:** Unit O, Section 6, Grid 65-10 127-00  
**UWI:** 300O066510127000  
**Pool / Field:** Undefined / Loon Creek  
**Well License #:** 470  
**Province / State:** Northwest Territories  
**Country:** Canada

**Elevations**

**Reference:** Ground **Ground:** 252.4 m  
**Cut(-) / Fill(+):**                      **Kelly Bushing:** 257.6 m  
**K.B. to Ground:** 5.2 m **Casing Flange:** 252.73 m

**Total Depth**

| Measurement Type           | Measured Depth | True Vertical Depth |
|----------------------------|----------------|---------------------|
| Drillers TD (Tally)        | 1856 m         | 1855.94 m           |
| Drillers TD (Strap or SLM) | m              | m                   |
| Loggers TD                 | 1857.6 m       | 1857.54 m           |

**Well Co - Ordinates**

|                                  | Longitude                  | Latitude     | Well Type: Vertical                                                     |
|----------------------------------|----------------------------|--------------|-------------------------------------------------------------------------|
| <b>Surface Co-Ordinates:</b>     | 127 00 30.7 W              | 65 05 51.5 N | NS:<br>EW:                                                              |
| <b>Int. Casing Co-Ordinates:</b> |                            |              | NS:<br>EW:                                                              |
| <b>Bottom Hole Co-Ordinates:</b> |                            |              | NS: 9.69 Meters North<br>EW: 28.17 Meters East of the surface location. |
| <b>UTM Surface Co-Ordinates:</b> | <b>Northing:</b> 7220618.3 |              | <b>Easting:</b> 593560.14                                               |

**Drilling Fluid Summary**

| Fluid Type          | From  | To     |
|---------------------|-------|--------|
| Spud Mud & Gel Chem | 0 m   | 600 m  |
| Invert (Versaclean) | 600 m | 1856 m |

**Casing Summary**

| Type    | Hole Size | Casing Size | Landed At |
|---------|-----------|-------------|-----------|
| Surface | 311 mm    | 244.5 mm    | 596.78 m  |

**Well Summary**

**Spud Date:** Jan 26, 2013 @ 12:00hrs **Contractor:** Beaver Drilling Ltd.  
**TD Date:** Feb 14, 2013 @ 06:35hrs **Rig Release Date:**                     

**Work Schedule**

| Contractor              | Geologist     | Log Interval | Dates Logged                |
|-------------------------|---------------|--------------|-----------------------------|
| Black Gold Geotechnical | Dave Lawrence | 0 m - 1856 m | Jan 24, 2013 - Feb 14, 2013 |

**Remarks**

# Legend

## Rock Types and Thin Beds

| Whole Bed | Stringer | Nodule | Breccia | Clast | Pebble | Grain | Rock Type                          |
|-----------|----------|--------|---------|-------|--------|-------|------------------------------------|
|           |          |        |         |       |        |       | Anhydrite - primary                |
|           |          |        |         |       |        |       | Anhydrite - secondary              |
|           |          |        |         |       |        |       | Argillite                          |
|           |          |        |         |       |        |       | Barite                             |
|           |          |        |         |       |        |       | Bentonite                          |
|           |          |        |         |       |        |       | Breccia                            |
|           |          |        |         |       |        |       | Cement                             |
|           |          |        |         |       |        |       | Conglomerate - mixed               |
|           |          |        |         |       |        |       | Conglomerate - dark chert          |
|           |          |        |         |       |        |       | Conglomerate - light chert         |
|           |          |        |         |       |        |       | Conglomerate - varicolored chert   |
|           |          |        |         |       |        |       | Chert - dark                       |
|           |          |        |         |       |        |       | Chert - fossiliferous              |
|           |          |        |         |       |        |       | Chert - light                      |
|           |          |        |         |       |        |       | Chert - tripolitic                 |
|           |          |        |         |       |        |       | Chert - varicolored                |
|           |          |        |         |       |        |       | Claystone - colored                |
|           |          |        |         |       |        |       | Claystone - gray                   |
|           |          |        |         |       |        |       | Coal                               |
|           |          |        |         |       |        |       | Dolomite                           |
|           |          |        |         |       |        |       | Ferruginous                        |
|           |          |        |         |       |        |       | Feldspar                           |
|           |          |        |         |       |        |       | Gypsum                             |
|           |          |        |         |       |        |       | Igneous - acidic                   |
|           |          |        |         |       |        |       | Igneous - basic                    |
|           |          |        |         |       |        |       | Igneous - metamorphic              |
|           |          |        |         |       |        |       | Muddy Inclined Heterolithic Strata |
|           |          |        |         |       |        |       | Limestone - grain supported        |
|           |          |        |         |       |        |       | Limestone - mud supported          |
|           |          |        |         |       |        |       | Marlstone - calcareous             |
|           |          |        |         |       |        |       | Marlstone - dolomitic              |
|           |          |        |         |       |        |       | Mud breccia                        |
|           |          |        |         |       |        |       | Mudstone                           |
|           |          |        |         |       |        |       | Paleosol                           |
|           |          |        |         |       |        |       | Phosphate                          |
|           |          |        |         |       |        |       | Quartz                             |
|           |          |        |         |       |        |       | Salt                               |
|           |          |        |         |       |        |       | Shale - black                      |
|           |          |        |         |       |        |       | Shale - dark gray                  |
|           |          |        |         |       |        |       | Shale - medium gray                |
|           |          |        |         |       |        |       | Shale - light gray                 |
|           |          |        |         |       |        |       | Shale - brown                      |
|           |          |        |         |       |        |       | Shale - green                      |
|           |          |        |         |       |        |       | Shale - red                        |
|           |          |        |         |       |        |       | Siderite                           |
|           |          |        |         |       |        |       | Sandstone                          |
|           |          |        |         |       |        |       | Siltstone                          |
|           |          |        |         |       |        |       | Sandy Inclined Heterolithic Strata |
|           |          |        |         |       |        |       | Till - glacial                     |
|           |          |        |         |       |        |       | Volcanic (Tuff)                    |
|           |          |        |         |       |        |       | Welded Volcanic (Tuff)             |

## Textures

|    |                   |     |              |     |                  |
|----|-------------------|-----|--------------|-----|------------------|
| C  | Chalky            | e   | Earthy       | mx  | Microcrystalline |
| CX | Cryptocrystalline | L   | Lithographic | √   | Slickenside      |
| MS | Mudstone          | GS  | Grainstone   | BFS | Bafflestone      |
| WS | Wackestone        | FLS | Floatstone   | BS  | Bindstone        |
| PS | Packstone         | RS  | Rudstone     | FS  | Framestone       |

## Accessories

|  |                        |  |                    |
|--|------------------------|--|--------------------|
|  | Anhydritic             |  | Gibbsitic          |
|  | Argillaceous           |  | Illitic            |
|  | Baritic                |  | Kaolinitic         |
|  | Bentonitic             |  | Lithic Fragment    |
|  | Bituminous             |  | Marly - calcareous |
|  | Calcareous             |  | Marly - dolomitic  |
|  | Carbonaceous           |  | Micromicaceous     |
|  | Cherty - dark          |  | Mixed layer clayey |
|  | Cherty - fossiliferous |  | Montmorillonitic   |
|  | Cherty - light         |  | Phosphate pellets  |
|  | Cherty - tripolitic    |  | Pyritic            |
|  | Cherty - varicolored   |  | Salt casts         |
|  | Chloritic              |  | Sandy              |
|  | Clayey                 |  | Sideritic          |
|  | Dolomitic              |  | Siliceous          |
|  | Ferruginous staining   |  | Silty              |
|  | Fractures              |  | Stylolitic         |
|  | Glauconitic            |  | Tuffaceous         |
|  | Gypsiferous            |  | Zeolitic           |

## Fossils (Rock Builders)

|  |                      |  |                          |
|--|----------------------|--|--------------------------|
|  | Aggregate grains     |  | Foraminifera             |
|  | Algae - laminations  |  | Fossil                   |
|  | Algae - non descript |  | Fragmental               |
|  | Algae - ootoid       |  | Gastropod                |
|  | Algae - skeletal     |  | Graptolite               |
|  | Amphipora            |  | Hydrozoa                 |
|  | Belemnite            |  | Intracast                |
|  | Bioclastic           |  | Mollusc                  |
|  | Brachiopod           |  | Oncolite                 |
|  | Bryozoa              |  | Oolite                   |
|  | Calciphaera          |  | Ostracod                 |
|  | Cephalopod           |  | Pelecypod                |
|  | Chaetetes            |  | Pellet                   |
|  | Coated grain         |  | Pisolite                 |
|  | Conodont             |  | Plant Remains            |
|  | Coral                |  | Plant Spores             |
|  | Coral - branching    |  | Scaphopod                |
|  | Coral - head         |  | Spicule                  |
|  | Coral - colonial     |  | Sponge                   |
|  | Coral - solitary     |  | Stromatoporoid           |
|  | Crinoid              |  | Stromatoporoid - bulbous |
|  | Diatom               |  | Stromatoporoid - massive |
|  | Echnoid              |  | Stromatoporoid - tabular |
|  | Echnoid - spine      |  | Tentaculites             |
|  | Fish Remains         |  | Trilobite                |
|  | Euryamphipora        |  |                          |

## Matrix

|  |              |  |                   |
|--|--------------|--|-------------------|
|  | Argillaceous |  | Marl - calcareous |
|  | Bafflestone  |  | Marl - dolomitic  |
|  | Bentonite    |  | Micrite           |
|  | Bindstone    |  | Mixed Clay        |
|  | Bituminous   |  | Montmorillonite   |
|  | Clay         |  | Mudstone          |
|  | Chlorite     |  | Packstone         |
|  | Floatstone   |  | Rudstone          |
|  | Framestone   |  | Sand              |
|  | Gibbsite     |  | Silt              |
|  | Grainstone   |  | Sparry Calcite    |
|  | Illite       |  | Wackestone        |
|  | Kaolinite    |  | Zeolite           |



## Miscellaneous Grains

|  |             |  |                 |  |             |
|--|-------------|--|-----------------|--|-------------|
|  | Biotite     |  | Mineral crystal |  | Orthoclase  |
|  | Glauconite  |  | Mineral - dark  |  | Plagioclase |
|  | Mica flakes |  | Muscovite       |  | Sand grain  |

## Porosity Type Track

|   |                                                                          |   |                                      |
|---|--------------------------------------------------------------------------|---|--------------------------------------|
| e | Earthy - low permeability - crystals / grains less than 1 / 16 mm        |   |                                      |
| □ | Fenestral - voids from gas bubbles - shrinkage cracks - birdseye texture |   |                                      |
| X | Inter-crystalline - Interfragmental - Intergranular                      |   |                                      |
| F | Fracture                                                                 | O | Organic - Bridged - Intrafossil      |
| ○ | Interoolitic - Interpelletoidal                                          | P | Pinpoint - voids less than 1 / 16 mm |
| ~ | Moldic                                                                   | V | Vuggy - voids greater than 1 / 16 mm |

## Oil Show Track

|   |                                                                            |
|---|----------------------------------------------------------------------------|
| ● | Even staining (75 - 100% of the rock is stained) - fluoresces in solvent   |
| ◐ | Spotted staining (50 - 75% of the rock is stained) - fluoresces in solvent |
| ◑ | Spotted staining (25 - 50% of the rock is stained) - fluoresces in solvent |
| ◒ | Spotted staining (1 - 25% of the rock is stained) - fluoresces in solvent  |
| ○ | Questionable oil staining - No fluorescents in solvent                     |
| D | Dead oil staining - asphaltic - bitumen - pyrobitumen etc.                 |
| F | Fluoresces - no visible oil staining                                       |

## Trace Fossil Track

|    |                |     |                   |    |                   |    |                     |
|----|----------------|-----|-------------------|----|-------------------|----|---------------------|
| An | Anconichnus    | Ar  | Arenicolites      | At | Arthropycus       | As | Asterosoma          |
| Au | Aulichnites    | Be  | Bergaueria        | Cg | Camborygma        | Cf | Celliforma          |
| Cb | Chabutolithes  | Ch  | Chondrites        | Cl | Climactichnites   | Co | Conichnus           |
| Cp | Cosmoraphe     | C   | Cruziana          | Cy | Cylindrichnus     | Da | Dactylodites        |
| Dm | Dimorphichnus  | D   | Diplocraterion    | Ea | Eatonichnus       | En | Entobia             |
| Et | Entomichnus    | Esc | Escape Traces     | Ga | Gastrochaenolites | Gl | Glossifungites      |
| G  | Gyrolithes     | Gy  | Gyrophyllites     | H  | Helminthopsis     | K  | Kouphichnium        |
| L  | Lockeia        | Lo  | Lorenzina         | Mp | Macanopsis        | Ma | Macaronichnus       |
| Mo | Monocraterion  | Ne  | Neonereites       | N  | Nereites          | O  | Ophiomorpha         |
| Pa | Palaeophycus   | Pd  | Paleodictyon      | Pc | Paleohelcura      | Pl | Paleoscolytus       |
| Pt | Petalichnus    | Py  | Phycodes          | Ph | Phycosiphon       | P  | Planolites          |
| Pm | Psamnichnites  | Ps  | Psalonichnus      | Rh | Rhizocorallium    | Rg | Rogerella           |
| Ro | Rosselia       | Ru  | Rusophycus        | Sb | Scalarituba       | Sc | Schaubcylindrichnus |
| Sy | Scoyenia       | Si  | Siphonichnus      | S  | Skolithos         | Sp | Spirophycus         |
| Su | Subphyllochora | Syn | Synaeresis Cracks | Te | Teichichnus       | Tr | Terebellina         |
| Td | Tereddites     | Th  | Thalassinoides    | Tc | Trichichnus       | Tp | Trichophycus        |
| Ty | Trypanites     | Z   | Zoophycos         |    |                   |    |                     |

## Sedimentary Structures

|  |                              |  |                    |  |                   |  |                  |
|--|------------------------------|--|--------------------|--|-------------------|--|------------------|
|  | Ball and pillow              |  | Bioturb-churned    |  | Bioturb-slightly  |  | Bioturb-moderate |
|  | Bioturb-mod well             |  | Bioturb-well       |  | Boudinage         |  | Burrows          |
|  | Clastic Dike                 |  | Clastic sill       |  | Desiccation crack |  | Dish structure   |
|  | Fault-Large scale            |  | Fault-Small scale  |  | Flame structure   |  | Flute mark       |
|  | Geopetal                     |  | Groove casts       |  | Gutter casts      |  | Load casts       |
|  | Inclined heterolithic strata |  | Mud chips          |  | Mud drapes        |  | Mud drapes       |
|  | Neptunian dike               |  | Pit marks          |  | Pull-a-part       |  | Rill marks       |
|  | Rip up clasts                |  | Roots / root trace |  | Scour and Fill    |  | Slump structure  |
|  | Swash marks                  |  | Synersis crack     |  | Teepee structure  |  | Tool marks       |
|  | Water Escape                 |  |                    |  |                   |  |                  |

## Cement

|  |               |  |             |
|--|---------------|--|-------------|
|  | Anhydritic    |  | Gypsiferous |
|  | Baritic       |  | Hematitic   |
|  | Bituminous    |  | Limonitic   |
|  | Calcareous    |  | Pyritic     |
|  | Chert - dark  |  | Salt        |
|  | Chert - light |  | Sideritic   |
|  | Dolomitic     |  | Siliceous   |
|  | Ferruginous   |  |             |

## Sorting Track

|    |                                                     |
|----|-----------------------------------------------------|
| vP | Very poorly sorted - > 10 phi size grade classes    |
| P  | Poorly sorted - 6-10 phi size grade classes         |
| M  | Moderately sorted - 3-6 phi size grade classes      |
| mW | Moderately well sorted - 2-3 phi size grade classes |
| W  | Well sorted - < 2 phi size grade classes            |

## Rounding Track

|    |              |    |              |
|----|--------------|----|--------------|
| vA | Very Angular | r  | Subrounded   |
| A  | Angular      | R  | Rounded      |
| a  | Subangular   | wR | Well Rounded |

## Framework Track

Framework is a ratio between clastic material greater than 1/16 mm and primary void filler less than 1/16 mm.  
? indicates questionable interpretation

## Core Track

|  |                          |
|--|--------------------------|
|  | Indicates Cored Interval |
|  | Indicates Lost Core      |

## Test Track

|  |                           |
|--|---------------------------|
|  | Indicates Tested Interval |
|--|---------------------------|

## Sedimentary Structures Bedding / Cross Bedding

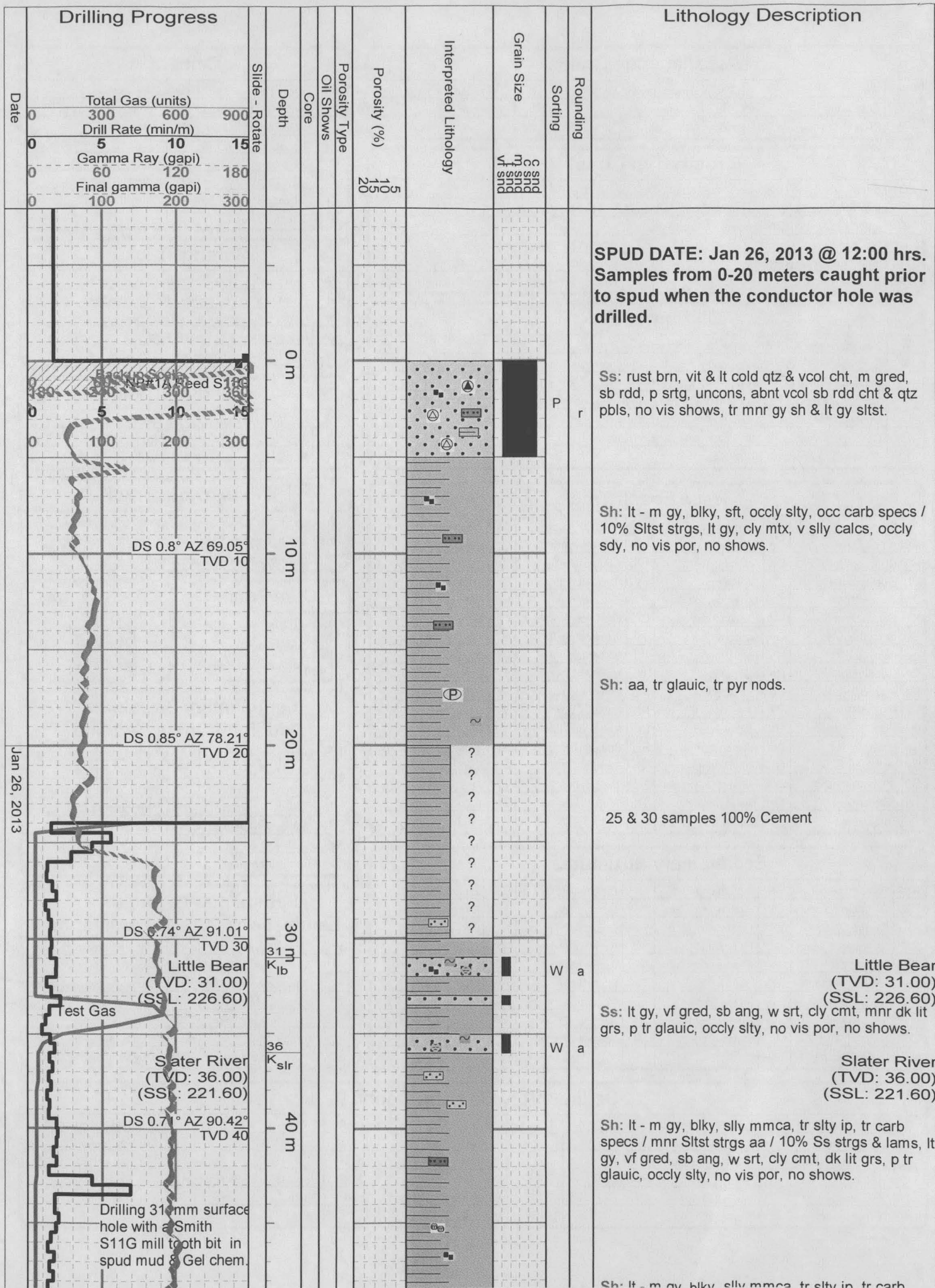
|  |                     |  |                          |
|--|---------------------|--|--------------------------|
|  | Centimeter bedding  |  | Inverted graded bedding  |
|  | Decimeter bedding   |  | Massive bedding          |
|  | Millimeter bedding  |  | Normal graded bedding    |
|  | Chevron x-bedding   |  | Herringbone x-bedding    |
|  | Sigmoidal x-bedding |  | Hummocky x-bedding       |
|  | Swaley x-bedding    |  | Planar/Tabular x-bedding |
|  | Trough x-bedding    |  |                          |

## Sedimentary Structures Laminations / Cross Laminations

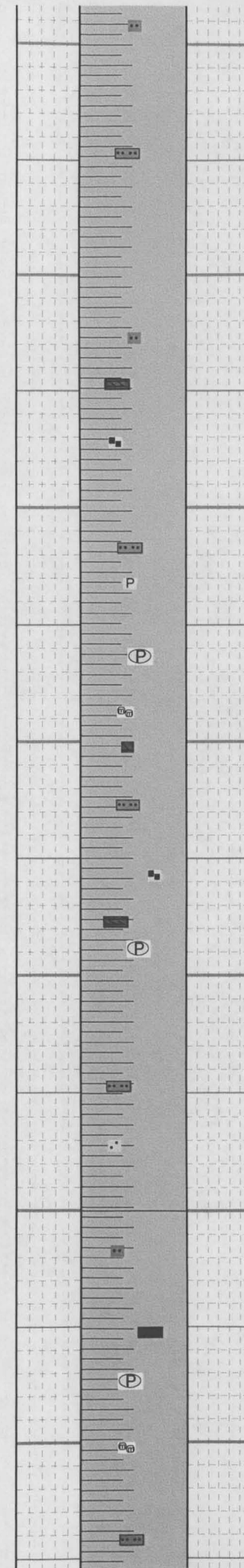
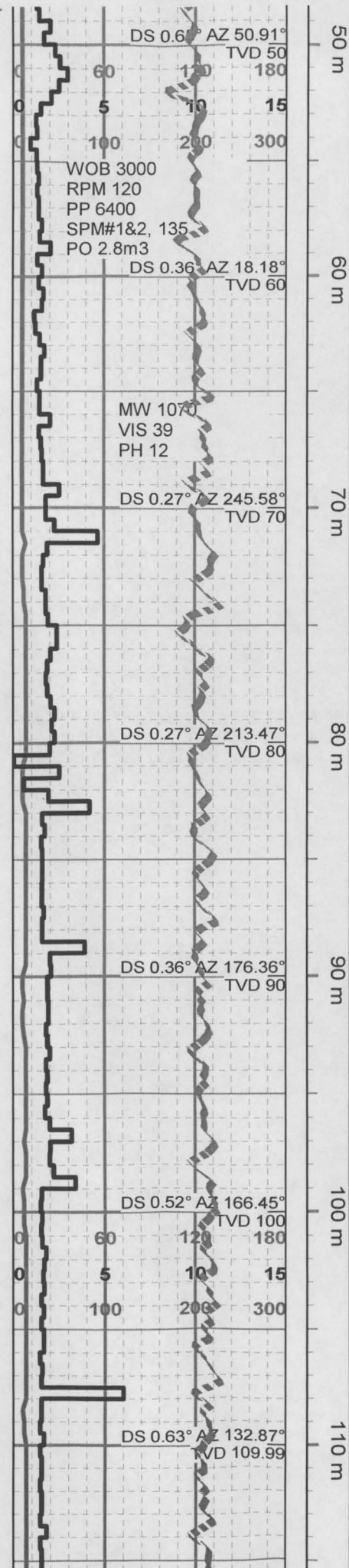
|  |                      |  |                          |
|--|----------------------|--|--------------------------|
|  | Climbing ripple xlam |  | Contorted/Slumped lams   |
|  | Current ripple xlam  |  | Flaser laminations       |
|  | High angle xlam      |  | High angle parallel lams |
|  | Lenticular lams      |  | Low angle xlam           |
|  | Low angle para lam   |  | Parallel laminations     |
|  | Trough xlam          |  | Varved laminations       |
|  | Wave ripple xlam     |  | Wavy laminations         |

## Sedimentary Bedding Contacts

|      |                                  |       |                       |       |                          |       |                               |      |                    |
|------|----------------------------------|-------|-----------------------|-------|--------------------------|-------|-------------------------------|------|--------------------|
| BIO  | Bioturbated                      | BORED | Bored                 | CAL   | Caliche / calcrete       | COR   | Corrosional                   | DC   | Dessication cracks |
| EX   | Exposure                         | FS    | Flooding surface      | GLOSS | Glossifungites           | GRAD  | Gradational                   | HG   | Hardground         |
| INCL | Inclined - sharp                 | IRR   | Irregular - sharp     | MFS   | Maximum flooding surface |       |                               | MC   | Mud cracks         |
| NOD  | Nodular                          | PB    | Parasequence boundary | RS    | Ravinement surface       | RSE   | Regressive surface of erosion |      |                    |
| ROOT | Rooted                           | SCOUR | Scour                 | SB    | Sequence boundary        | SHARP | Sharp                         | TRUN | Truncation         |
| TSE  | Transgressive surface of erosion |       |                       | UNCON | Unconformity             | WAVY  | Wavy                          |      |                    |







Sh: lt - m gy, blk, sly mmca, tr sly ip, tr carb specs.

Sh: lt - m gy, blk, sly mmca, tr sly ip, tr carb specs / 10% Sltst strgs aa ip / Sltst lt gy brn, sdy, sidic, shy, tt, no shows.

Sh: lt - m gy, tr gy brn ip, blk, sly mmca, tr sly ip, tr carb specs, sidic ip / tr brn sid frags / mntr Sltst strgs aa.

Sh: predly m gy, blk, plty ip, sly mmca, tr sly, sft - frm, mntr dism pyr & tr pyr nods, mntr Sltst strgs, lt gy, cly mtz, tr calcs, tr dk lit grs, tt, no vis show.

Sh: lt - m gy, tr gy brn ip, blk, tr plty, sly mmca, tr sly ip, tr carb specs, pyr nods, mntr sidic ip / tr brn sid frags / mntr Sltst strgs aa.

Sh: lt - m gy, tr gy brn ip, blk, plty ip, sly mmca, tr sly ip, occly sdy, tr carb specs, pyric / occ pyr nods, mntr sidic ip / tr brn sid frags / mntr Sltst strgs, lt - m gy, cly mtz, sly sdy, tr dk lit grs, tt, no shows.

Sh: lt - m gy, tr gy brn ip, blk, plty ip, sft - sly frm, sly mmca, tr sly ip, tr sdy, tr carb specs, pyric / tr pyr nods, mntr sidic ip / tr brn sid frags.

Jan 27, 2013

DS 0.79° AZ 99.41°  
TVD 119.99

DS 0.63° AZ 76.99°  
TVD 129.99

DS 0.38° AZ 31.01°  
TVD 139.99

DS 0.3° AZ 351.04°  
TVD 149.99

DS 0.26° AZ 226.91°  
TVD 159.99

DS 0.13° AZ 239.42°  
TVD 169.99

WOB 8000  
RPM 120  
SPM#1&2 135  
PP 8400  
PO 2.8m

120 m

130 m

140 m

150 m

160 m

170 m

180 m

Sh: lt - m gy, tr gy brn ip, blk, plty ip, modly frm, sly mmca, tr slty ip, tr sdy, tr carb specs, pyric / tr pyr nods, mnr sidic ip / mnr Sltst lams aa.

Sh: predly lt - m gy, blk, tr plty ip, modly frm, sly mmca, tr slty ip, tr carb specs, tr pyric / p tr pyr nods, mnr sidic ip / mnr Sltst lams aa.

Sh: predly m gy, blk, tr plty ip, modly frm, sly mmca, tr pyric / p tr pyr nods.

Sh: predly m gy, blk, tr plty ip, modly frm, sly mmca, occlly slty, pyric / tr pyr nods / mnr Sltst lams lt - m gy, cly cmt, grds to slty sh ip, tt, no shows.

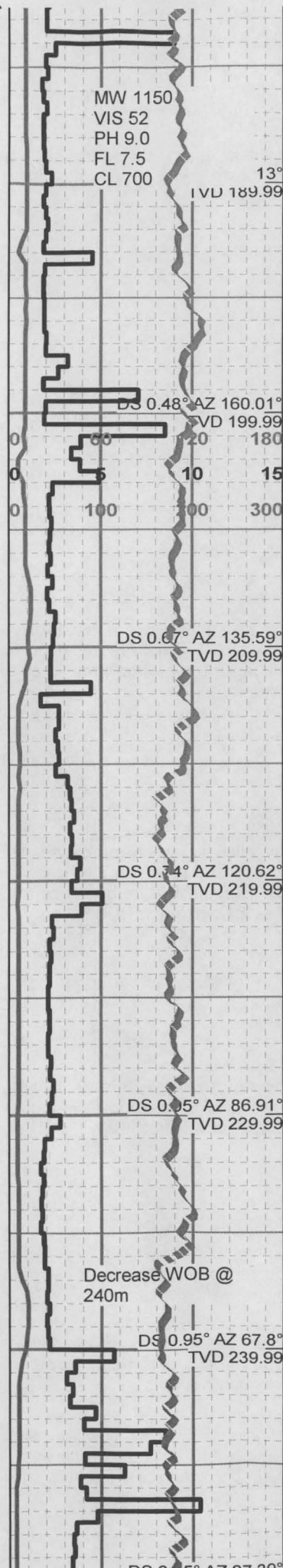
Sh: aa, incrg sidic / Ss strgs 10%, lt gy, vf gred, sb ang, w srt, cly cmt, sly calcs, pyric, grds to sdy sltst ip, tt, no shows.

Sh: aa, Ss strgs incrg to 15%.

Sh: lt - m gy, blk, tr plty ip, modly frm, sly mmca, occlly slty, sdy ip, sidic ip / tr brn sid frags, tr pyric / tr pyr nods / mnr Ss lams aa.

Sh: lt - m gy, blk, plty ip, modly frm, sly mmca, occlly slty, tr sdy ip, sly sidic ip, tr pyric / tr pyr nods / mnr Ss lams lt gy, s&p, l f gred, sb ang, modly w srt, calcs, sly carb, tr glaucic, shy ip, tt, no show.





190 m

200 m

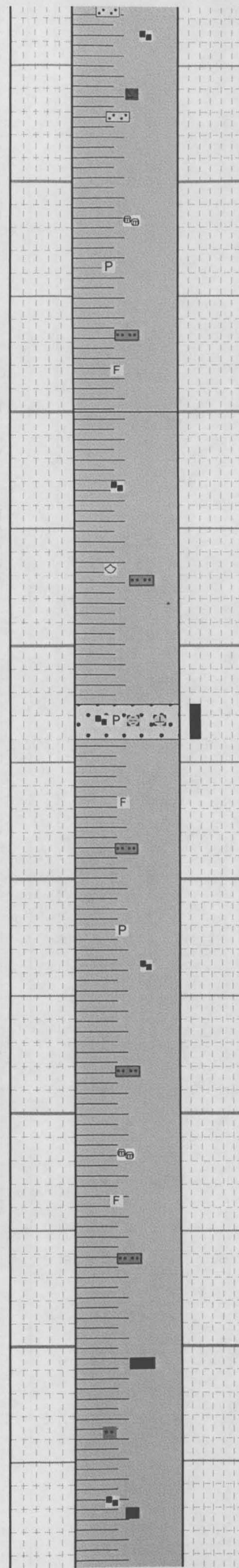
210 m

220 m

230 m

240 m

250 m



MW 1150

Sh: lt - m gy, blk, plty ip, modly frm, sly mmca, occly slty, tr sdy ip, sly sidic ip, tr pyric / tr pyr nods / 10% Ss lams lt gy, s&p, l f gred, sb ang, modly w srt, calcs, sly carb, tr glauc, shy ip, tt, no show.

Sh: predly Sh aa.

Sh: predly m gy, blk, tr plty, sly mmca, modly frm, tr mn carb specs, tr inoc, tr pyr, mn Sltst strgs aa.

Sh: aa, incrg slty, tr mn shell frags (bracs?), tr sidic / 5% Sltst strgs, m gy, cly mtx, pyric, shy, sdy ip, occly grds to vf gred ss ip, tt, no shows.

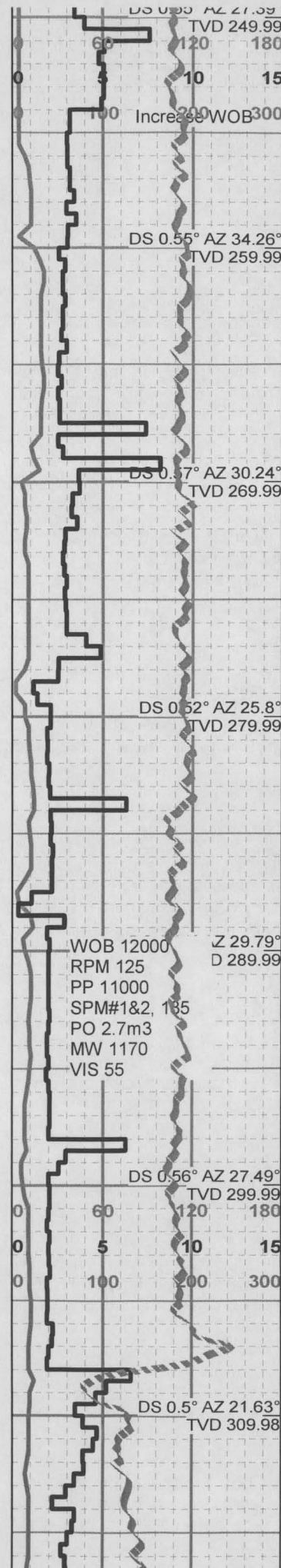
Ss: lt - m gy, vf gred, sb ang, modly w srt, calcs & cly cmt, carb grs, sly pyric, slty, shy, tt, no shows.

Sh: predly m gy, blk, tr plty, sly mmca, modly frm, tr mn carb specs, tr inoc, tr pyr, mn Sltst strgs, lt - m gy, cly & calcs cmt, carb grs, shy, tr pyric, tt, no shows.

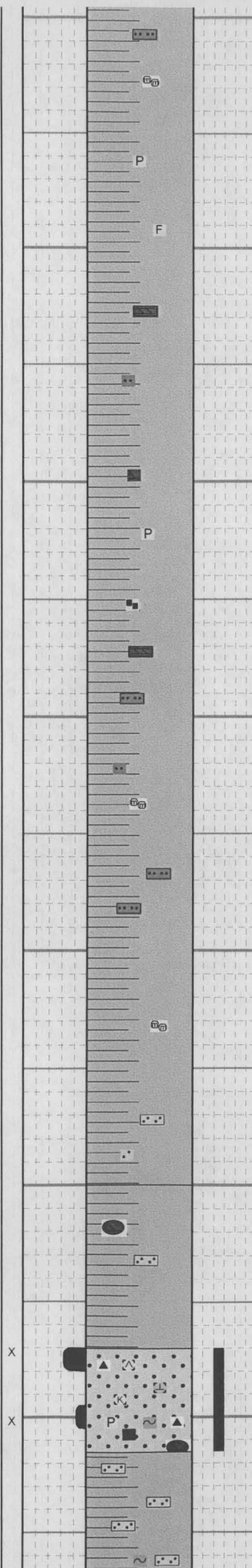
Sh: predly m gy, blk, tr plty, sly mmca, modly frm, tr mn carb specs, tr inoc, tr pyr, mn Sltst strgs, lt - m gy, cly & calcs cmt, carb grs, shy, tr pyric, tt, no shows.

Sh: predly m gy, blk, tr plty, sly mmca, modly frm, tr mn carb specs, tr inoc, tr pyr, mn Sltst strgs, lt - m gy, cly & calcs cmt, carb grs, shy, tr pyric, tt, no shows.

Sh: predly m gy, blk, tr plty, sly mmca, modly frm, tr mn carb specs, tr inoc, tr pyr, tr sidic / mn Sltst strgs, lt - m gy, cly & calcs cmt, carb grs, shy, tr pyric, tt, no shows.



30 m  
260 m  
270 m  
280 m  
290 m  
300 m  
310 m



Sh: predly m gy, blk, tr plty, sly mmca, sly slty, modly frm, tr mn carb specs, tr pyric, tr sidic / tr brn sid frags, tr inoc.

Sh: predly m gy, blk, tr plty, sly mmca, sly slty, modly frm, tr mn carb specs, tr pyric, tr sidic / tr brn sid frags.

Sh: predly m gy, blk, tr plty, sly mmca, modly frm, tr mn carb specs, tr pyric, sly slty ip, tr sidic / tr brn sid frags / tr mn Sltst strgs, m gy, cly cmt, tt, no shows.

Sh: predly m gy, blk, tr plty, sly mmca, modly frm, tr mn carb specs, tr pyric, sly slty ip, tr sidic / tr brn sid frags / 5% Sltst strgs, m gy, cly cmt, sdy, grds to vf gred ss ip, carb specs, tt, no shows.

Sh: predly m gy, mn sb fis, sly mmca, sly aren, tr dism pyr, tr sid frags / 5% Ss lams, lt gy, vf gred, sb ang, w srt, cly & calcs cmt, sly slty, no vis por, no shows

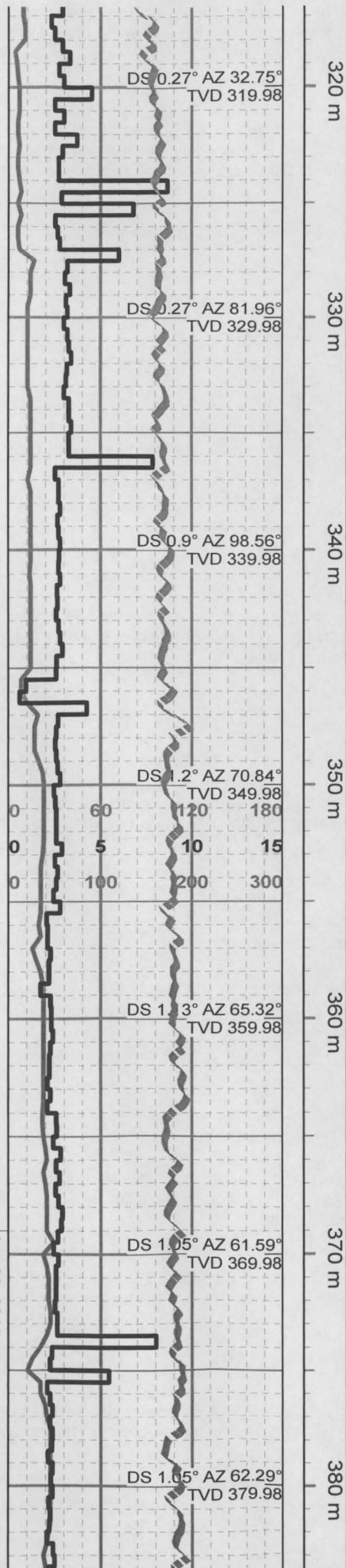
Sh: predly m gy, mn sb fis, sly mmca, sly aren, modly frm, tr dism pyr / 5% Ss lams aa.

Ss: s&p, f gred, sb ang, modly w srt, sils & sly calcs cmt, kao mt ip, occ dk lit grs, p tr pyric, p - fr intgran por 8%, no vis shows.

Ss: lt gy, s&p, f gred, sb ang, modly w srt, sils & sly calcs cmt, kao cmt ip, dk lit grs, tr glauc, tr pyric, sly sidic, tt - p intgran por 4%, no vis shows / occ brn sid frags (nods?)



Jan 28, 2013



Sh: predly m gy, mnr sb fis, slly mmca, slly aren, tr pyr, occlly sidic / brn sid frags in sample / 10% Ss lams & strgs lt - m gy, lt gy brn, l f gred, sb ang, modly w srt, sils & slly calcs, kao mtx ip, sidic, tr glaucic, pyr, dk lit grs, incrg shy, no vis por or show.

Sh: lt - m gy, modly frm,, tr carb specs, tr inoc, occlly cold brn (sidic) / tr brn sid frags, slty & slly aren ip / 5% Ss lams & strgs aa.

Sh: aa, incrg aren / 5% ss strgs & lams aa.

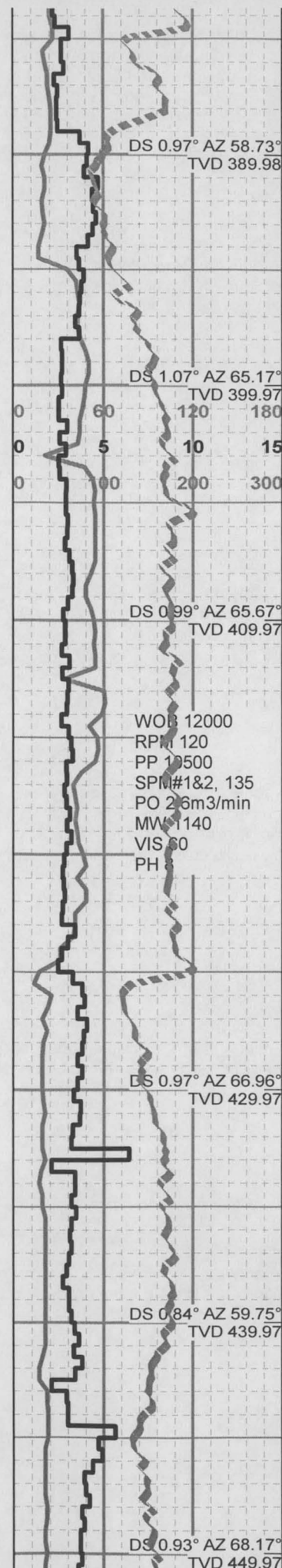
Sh: lt - m gy, modly frm,, tr carb specs, tr inoc, occlly cold brn (sidic) / tr brn sid frags, slty & slly aren ip / 5% Ss lams & strgs aa.

Sh: lt - m gy, modly frm,, tr carb specs, tr inoc, occlly lt gy brn (sidic), tr brn sid frags (nods), mnr slty & slly sdy ip, tr pyr nods / tr Slst lams & lenses, lt gy, cly & slly calcs cmt, no vis por, or show.

Sh: lt - m gy, modly frm,, tr carb specs, tr inoc, occlly lt gy brn (sidic), tr brn sid frags (nods), occlly slly slty & slly sdy ip, tr pyr nods / tr Slst lams aa.

Sh: lt - m gy, modly frm,, tr carb specs, tr inoc, occlly lt gy brn (sidic), tr brn sid frags (nods), occlly slly slty & slly sdy ip, tr pyr nods / tr Slst lams aa.

Sh: aa / tr mnr coal lenses.



390 m

400 m

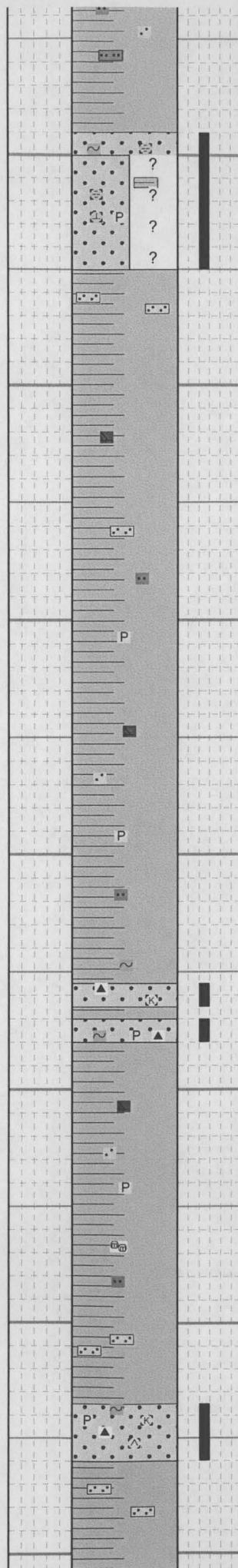
410 m

420 m

430 m

440 m

450



Sh: lt - m gy, mnr sb fis, modly frm, sily mmca, tr inoc, occlly lt gy brn (sidic), tr brn sid frags (nods), occlly sily slty & sily sdy ip, tr pyr nods / tr Sltst lams aa.

Sh: aa / 20% Ss lt - m gy, s&p, u f gred, sb ang, m srtg, qtz & cht, cly mtx, sily calcs, tr sils cmt, occ dk lit grs, tr glauc grs, pyirc, occlly shy / occ m gy sh lenses, no vis por, no shows.

Missed sample @ 395 meters

Sh: lt - m gy, mnr sb fis, modly frm, sily mmca, mnr lt gy brn sh (sidic), tr slty & sily sdy ip, tr pyric / mnr Ss lams aa.

Sh: lt - m gy, mnr sb fis, modly frm, sily mmca, mnr lt gy brn sh (sidic), tr slty & sily sdy ip, tr pyric / mnr Ss lams aa.

Sh: lt - m gy, mnr sb fis, modly frm, sily mmca, mnr lt gy brn sh (sidic), tr slty & sily sdy ip, tr pyric / mnr Ss lams aa.

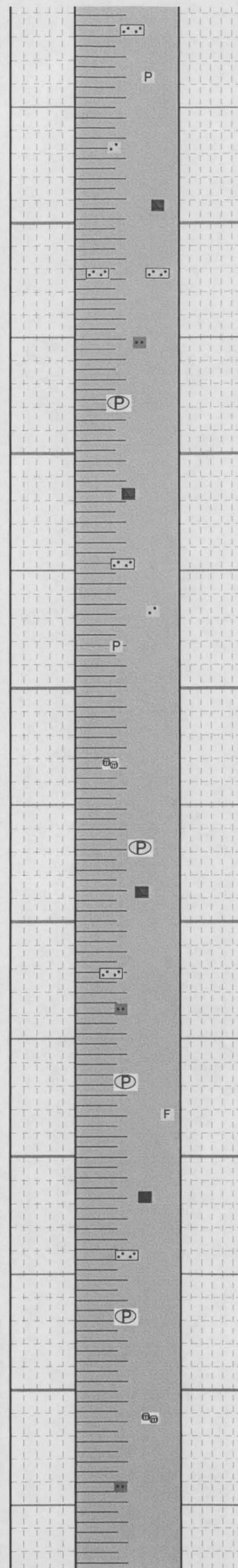
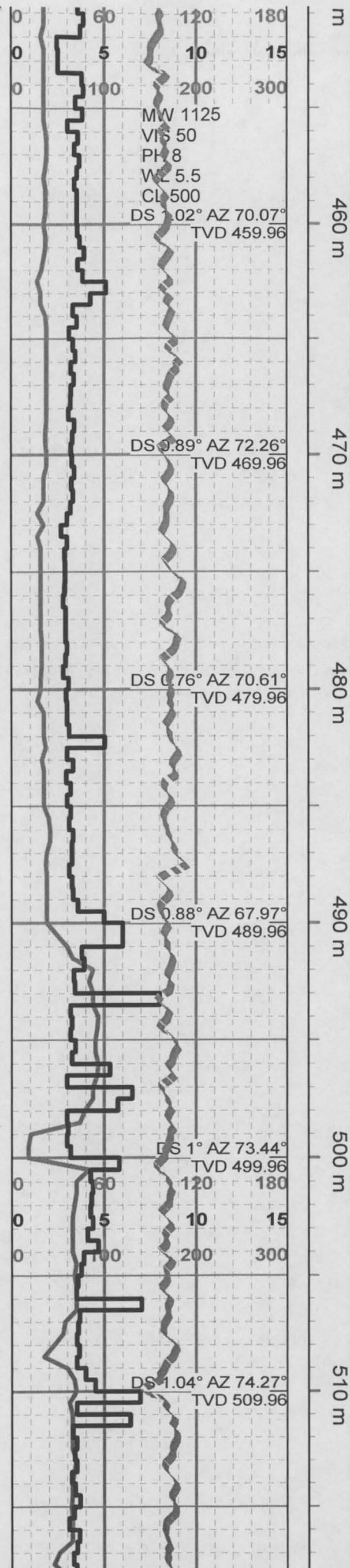
Sh: aa, incrg aren, bcmg glauc.

Ss: s&p, u f gred, sb ang, modly w srt, kao mtx, sily sils, dk lit grs, p tr glauc, tr pyric, no vis por or shows.

Sh: predly m gy, modly frm, sbfis ip, sily mmca, mnr lt gy brn sh (sidic), tr slty & sily sdy ip, tr pyric. / 5% Ss strgs aa.

Ss: lt gy, s&p, u f gred, sb ang, modly w srt, kao mtx, sily sils, dk lit grs, p tr glauc, tr pyric, no vis por or shows.





Sh: predly m gy, modly frm, sbfis ip, sily mmca, mnr lt gy brn sh (sidic), tr slty & sly sdy ip, tr pyric.

Sh: predly m gy, modly frm, sbfis ip, sily mmca, mnr lt gy brn sh (sidic), tr slty & tr sdy ip, tr pyric, tr pyr nods.

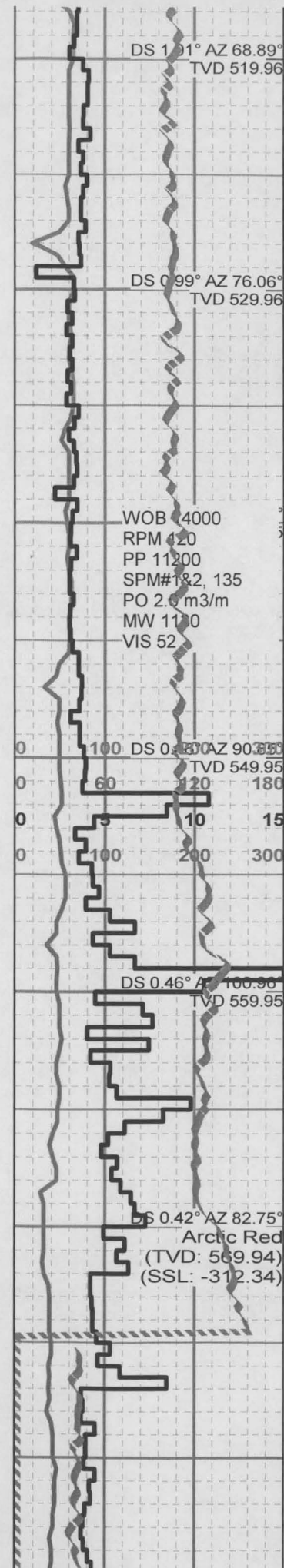
Sh: predly m gy, modly frm, sbfis ip, sily mmca, mnr lt gy brn sh (sidic), tr slty & tr sdy ip, tr pyric, tr pyr nods / 5% Ss aa.

Sh: predly m gy, modly frm, sbfis ip, sily mmca, mnr lt gy brn sh (sidic), tr slty & tr sdy ip, tr pyric, tr pyr nods.

Sh: predly m gy, mnr sbfis, sily mmca, sily slty, pyr nods, mnr gy brn sidic sh / tr Ss lams aa, tr amb.

Sh: predly m gy, mnr sbfis, sily mmca, sily slty, pyr nods, mnr lt gy brn sidic sh / tr Ss lams aa.

Sh: predly m gy, sbfis ip, sily mmca, tr slty, tr pyr nods, mnr lt gy brn sidic sh.



520 m

530 m

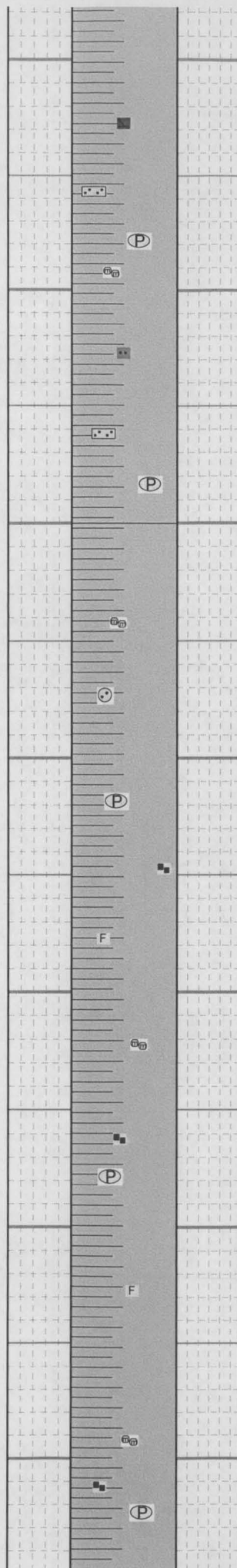
540 m

550 m

560 m

570 m

580 m



Sh: predly m gy, sbfis ip, slty ip, slly mmca, modly frm, tr pyr nods, tr mnr lt gy brn sidic sh, tr mnr Ss lenses aa.

Sh: predly m gy, sbfis ip, slty ip, slly mmca, modly frm, tr pyr nods, tr mnr Ss lenses aa.

Sh: predly m gy, sbfis ip, slty ip, slly mmca, modly frm, tr pyr nods, tr mnr Ss lenses aa.

Sh: m gy, mnr dk gy, incrg sbfis ip, slly carb, slly mmca, tr pyr, tr inoc.

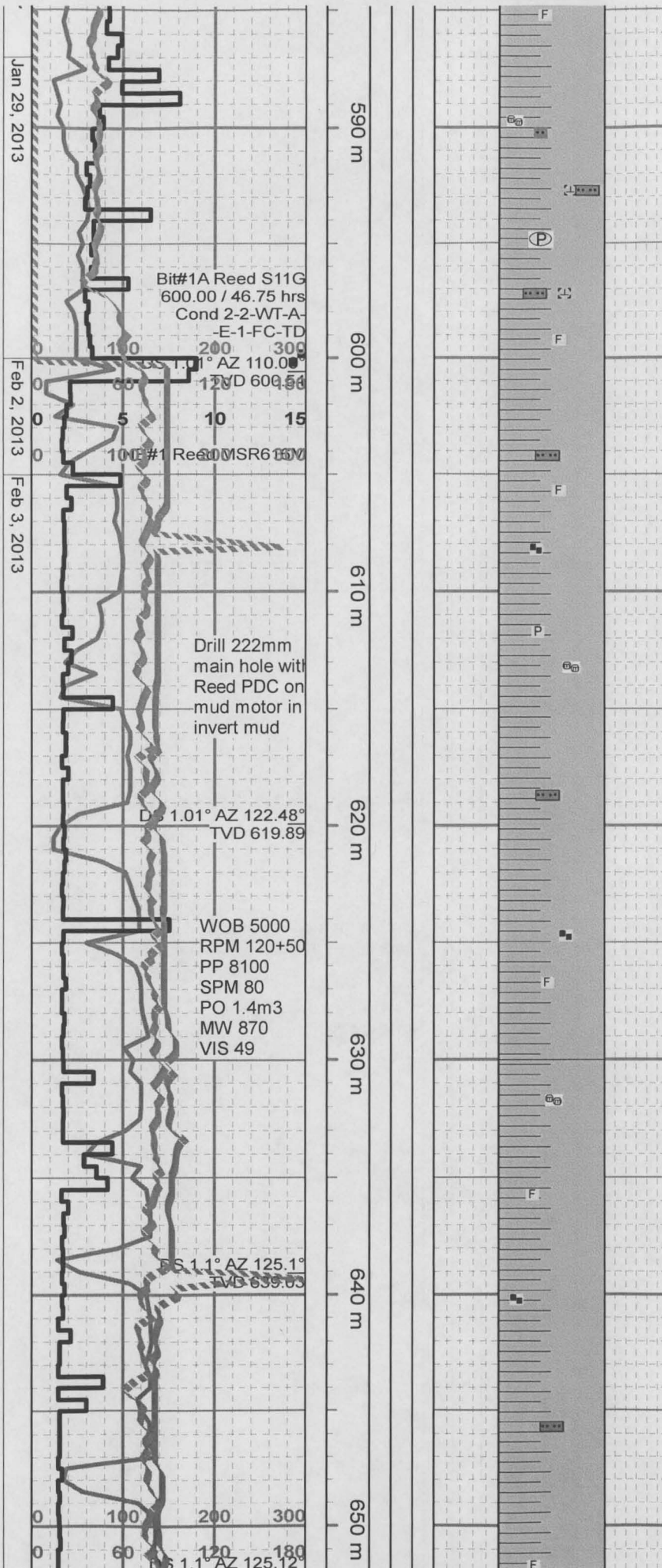
Sh: m gy, mnr dk gy, incrg sbfis, incrg carb, slly mmca, tr pyr nods, inoc.

Arctic Red  
(TVD: 569.94)  
(SSL: -312.34)

Sh: m gy, mnr dk gy, occlly sbfis, carb ip, slly mmca, tr pyr nods, inoc.

Sh: m gy, occlly dk gy, occlly sbfis, carb ip, mmca,





Sh: m - occly dk gy, sbfis ip, slly carb ip, occly mmca, slly slty ip, pyr nods, inoc / tr mnr Sltst lams, lt - m gy, calcs & cly cmt, tr carb specs, sdv ip, no vis por, no shows.

Surface hole TD 600m @ 19:45hrs,  
Jan 29/13  
Casing set @ 597 meters.

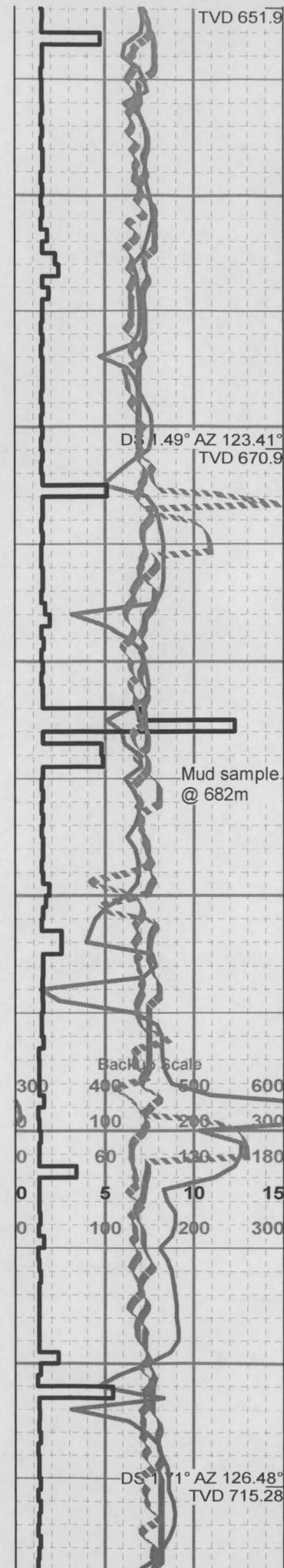
Sh: m - dk gy, sbfis ip, slly carb ip, occly mmca, slly slty ip / mnr Sltst lams, lt - m gy, calcs & cly cmt, tr carb specs, no vis por, no shows.

Sh: m - dk gy, sbfis ip, slly carb ip, occly mmca, slly slty ip / mnr Sltst strgs & lams aa.

Sh: m - dk gy, sbfis, slly carb, occly slly mmca, tr pyr, tr inoc., p tr sltst lams aa.

Sh: m - dk gy, sbfis, slly carb, occly slly mmca, tr pyr, tr inoc., p tr sltst lams aa.

Sh: m - dk gy, sbfis, slly carb, occly slly mmca, tr pyr, tr inoc., p tr sltst lams aa.



Sh: m - dk gy, sbfis, slly carb, occlly slly mmca, inoc., tr sltst strgs lt - m gy, calcs & cly cmt, tt, no show.

Sh: m - dk gy, sbfis, slly carb, occlly slly mmca, inoc, p tr sltst lams aa.

Sh: m - dk gy, sbfis, slly carb, occlly slly mmca, inoc, p tr sltst lams aa.

Sh: m - dk gy, sbfis, slly carb, occlly slly mmca, inoc.

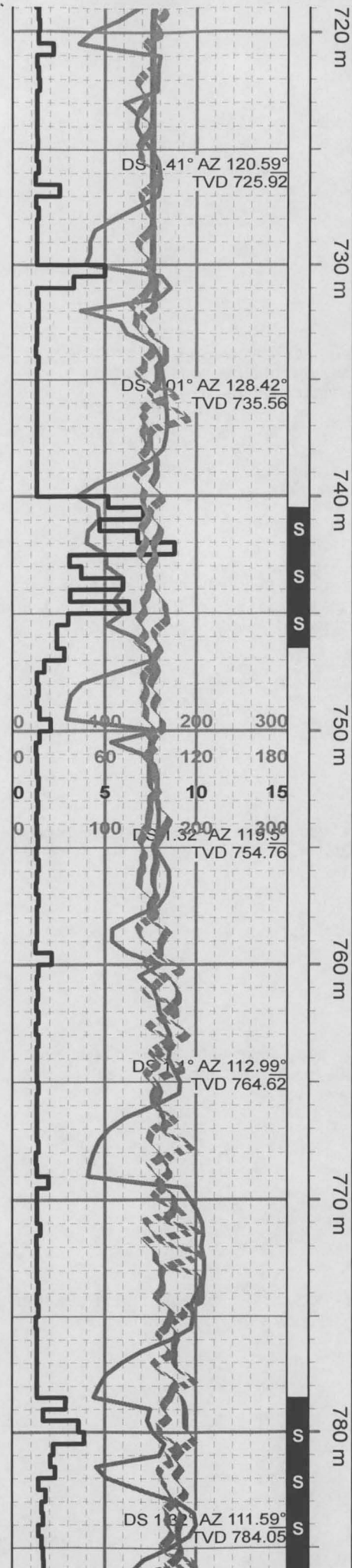
Sh: aa / tr mnrr Ls lams, mot crn wh, sft, chly, tr small fracs infilled / calc, dns.

Sh: m - dk gy, sbfis, slly carb, occlly slly mmca, g tr inoc.

Sh: m - dk gy, sbfis, slly carb, occlly slly mmca, g tr inoc, tr small fracs infilled / wh calc & crm chky ls ip.

Sh: aa, p tr pyr / tr mnrr lt gy clyst lams, sft, wxy.





Sh: m - dk gy, sbfis, slly carb, occlly slly mmca, g tr inoc, tr small fracs aa

Sh: m - dk gy, sbfis, slly mmca, slly carb, inoc, tr mntr micro fracs infilled / calc aa.

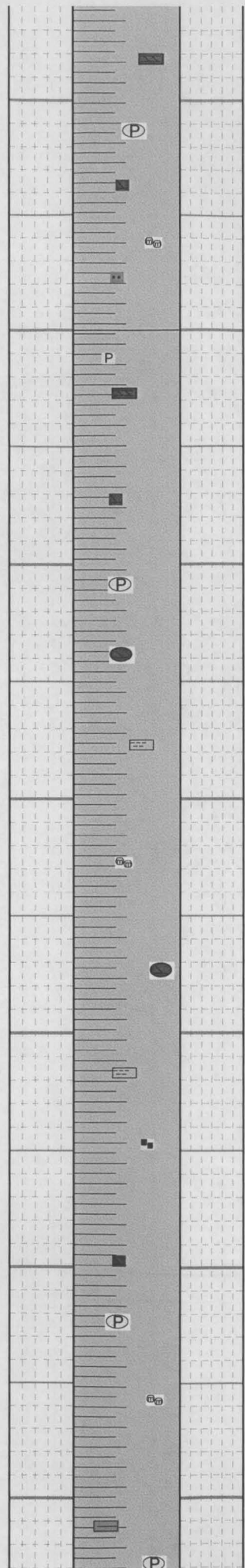
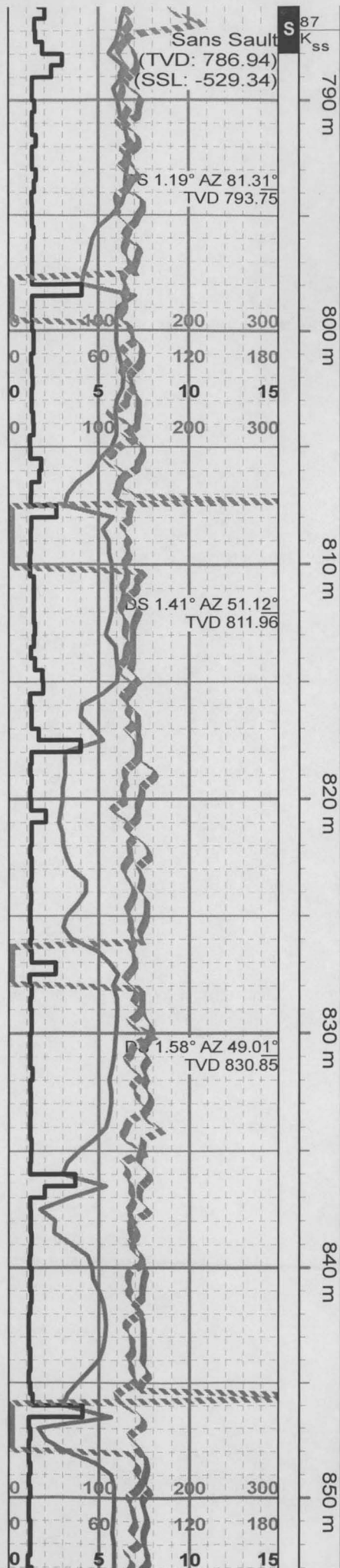
Sh: m - dk gy, sbfis, slly mmca, slly carb, inoc, tr mntr micro fracs infilled / calc aa.

Sh: m - dk gy, sbfis, slly carb, occlly slly mmca, tr inoc.

Sh: aa, mntr Clyst lams, lt gy, sdy, slly calcs, occ abnt mics flks, grds to clyy ss ip.

Sh: m - dk gy, sbfis, slly carb, occlly slly mmca, tr inoc / p tr Clyst lams, lt gy, sft, wxy, tr sdy aa.

Sh: m - occlly dk gy, sbfis, slly wxy tex ip, slly mmca ip, slly carb, occlly slly sidic / tr mntr clyst strgs aa, sdy aa. P tr lt gn sh, wxy tex.



Sans Sault  
(TVD: 786.94)  
(SSL: -529.34)

Sh: predly m gy, sbfis, sily wxy tex ip, sily mmca ip, sily carb, sily slty ip, tr pyr nods, occlly sily sidic / occ brn sid frags / tr lt gy brn sidic clyst lams.

Sh: m / mnr dk gy, sbfis ip, sily mmca ip, sily carb, sily slty ip, tr pyr nods & dism pyr, occlly sily sidic / occ brn sid frags.

Sh: m - dk gy, sbfis, sily mmca, sily carb, tr pyr nods, occlly sidic / tr brn sid frags (nods?), tr mnr lt gy clyst lams.

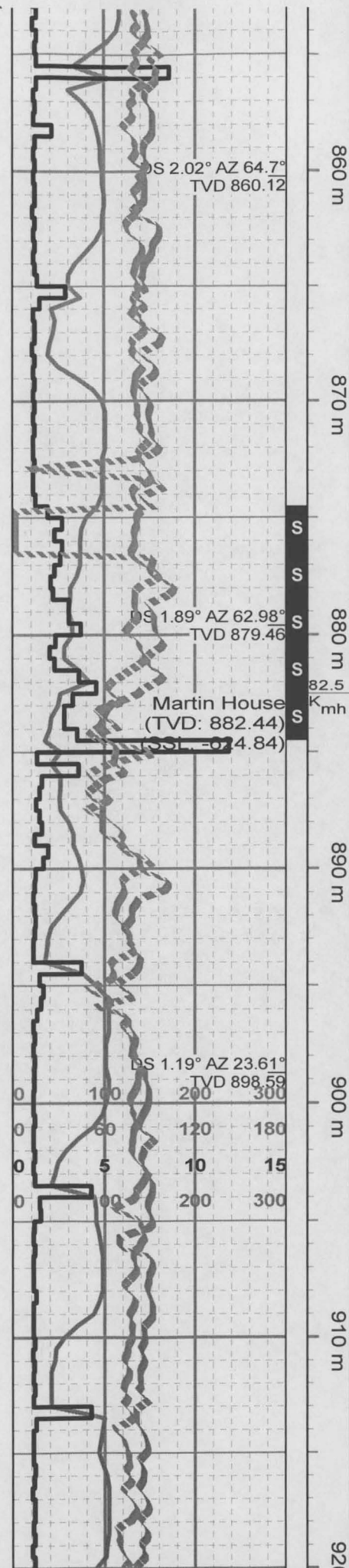
Sh: m - occlly dk gy, sbfis, sily mmca, sily carb, tr pyr nods, occlly sidic / tr brn sid frags (nods?)

Sh: m - occlly dk gy, sbfis, sily mmca, sily carb, tr pyr nods, occlly sidic / tr brn sid frags / tr mnr lt gy clyst lams aa.

Sh: m - occlly dk gy, sbfis, sily mmca, sily carb, tr pyr nods, occlly sidic / tr brn sid frags.

Sh: m - occlly dk gy, sbfis, sily mmca, sily carb, tr pyr nods, occlly sidic / tr brn sid frags / tr mnr lt gn sh lams, sft, wxy tex.





Sh: aa / tr Ls strgs bf, mdst - wkest, occlly chky,  
no vis por or show

Sh: m gy, mntr dk gy, sbfis, slly mmca, slly sidic  
ip, tr pyr nods, p tr mntr ls lenses aa.

Sh: m gy, mntr dk gy, sbfis, slly mmca, slly sidic  
ip, tr pyr nods, p tr mntr ls lenses aa.

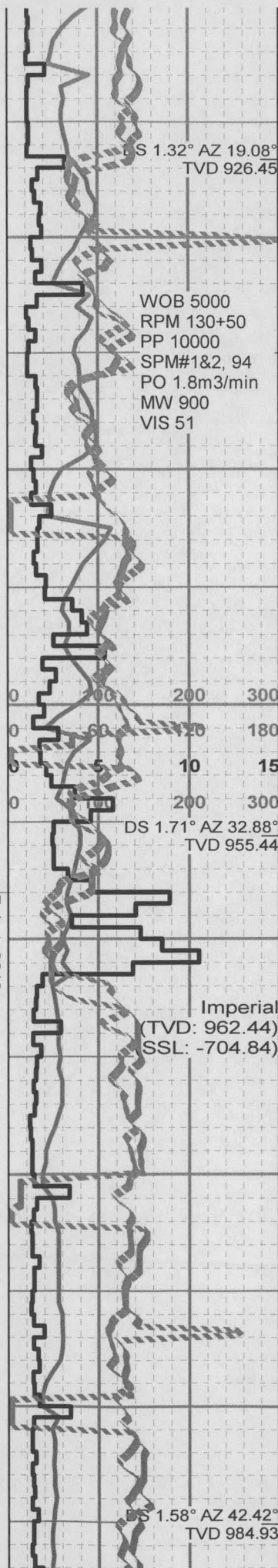
Ss: crm - v lt gy, vf gred, sb ang, Martin House  
w srt, qtz & lt cold cht, tr dk lit grs, (TVD: 882.44)  
calcs & kao cmt, slty, grds to sdy (SSL: -624.84)  
sltst ip, p tr pyric, occlly glaucic, no  
vis por, no shows.

Sh: m gy, mntr dk gy, sbfis, slly mmca, slly carb, tr  
pyr nods, tr sdy, sdy ip, tr sidic / mntr Ss strgs aa.

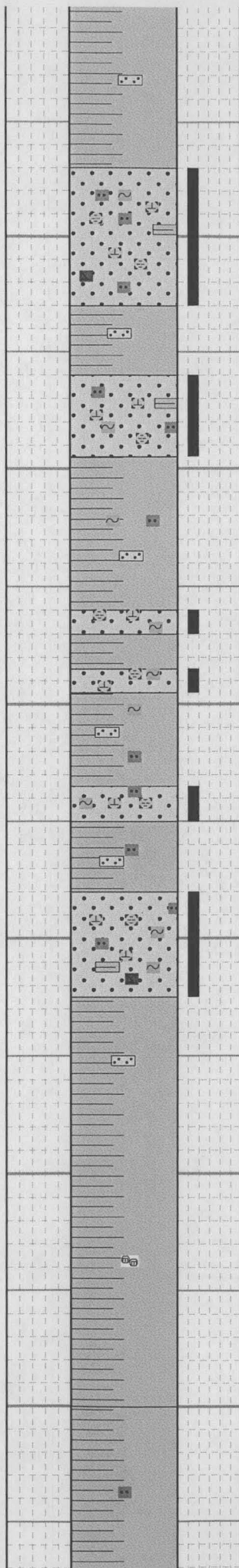
Sh: m - occlly dk gy, sbfis, slly mmca, slly carb, tr  
pyr nods, tr sdy, sdy ip, tr brn sid frags.

Sh: m - occlly dk gy, sbfis, slly mmca, slly carb, tr  
wh c xln calc (fracs)

Feb 4, 2013



930 m  
940 m  
950 m  
960 m  
970 m  
980 m



Sh: aa

Ss: lt gy, vf gred, sb ang, w srt, calcs & cly cmt, glauic, slty, shy ip, sly sidic ip, no vis por, no shows, mnf fros calc in sample from fracs

Ss: lt gy, vf gred, sb ang, w srt, calcs & cly cmt, glauic, slty, shy ip, sly sidic ip, no vis por, no shows. tr mnf calc aa.

Sh: m - occlly dk gy, carb ip, sly mmca, occlly slty, tr sdy, tr glauic.

Sh: m - occlly dk gy, sbfis ip, carb ip, sly mmca, tr slty ip / mnf Ss aa.

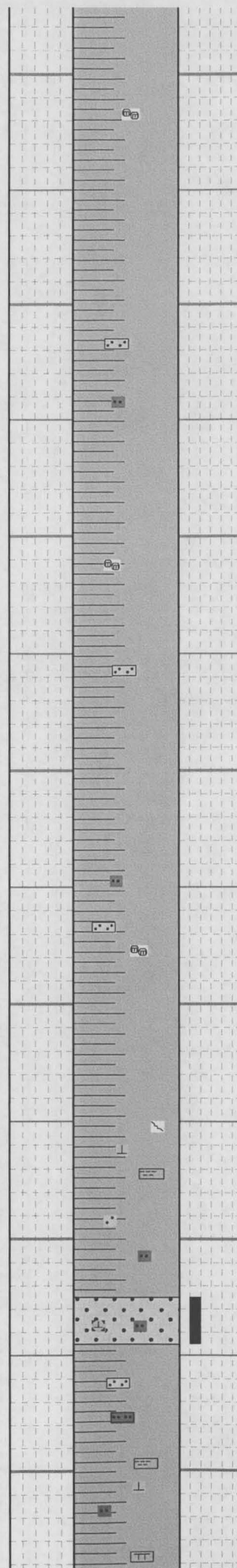
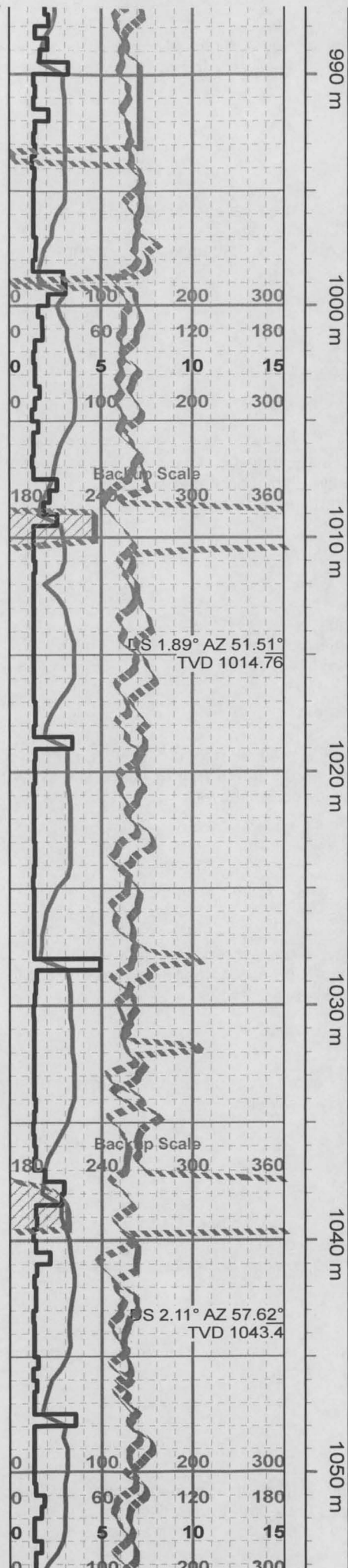
Ss: lt - m gy, vf gred, sb ang, modly w srt, calcs & cly cmt, slty, shy ip, grds to sdy sltst ip, glauic, tr sidic, no vis por, no shows.

Imperial  
(TVD: 962.44)  
(SSL: -704.84)

Sh: m gy, gy gn, sbfis, sly mmca, sly wxy tex.

Sh: m gy, gy gn ip, tr red brn, plty, sbfis, sly mmca, tr slty ip.





Sh: m gy, gy gn ip, tr red brn, plty, sbfis, sily  
mmca, tr slty ip.

Sh: m gy, gy gn ip, tr red brn, plty, sbfis, sily  
mmca, tr slty ip.

Sh: m gy, gy gn ip, tr red brn, plty, sbfis, sily  
mmca, tr slty ip / occ intbd Ss strgs, lt - m gy, gy  
gn, vf gred, sb ang, w srt, calcs & cly cmt, shy, tt,  
no shows.

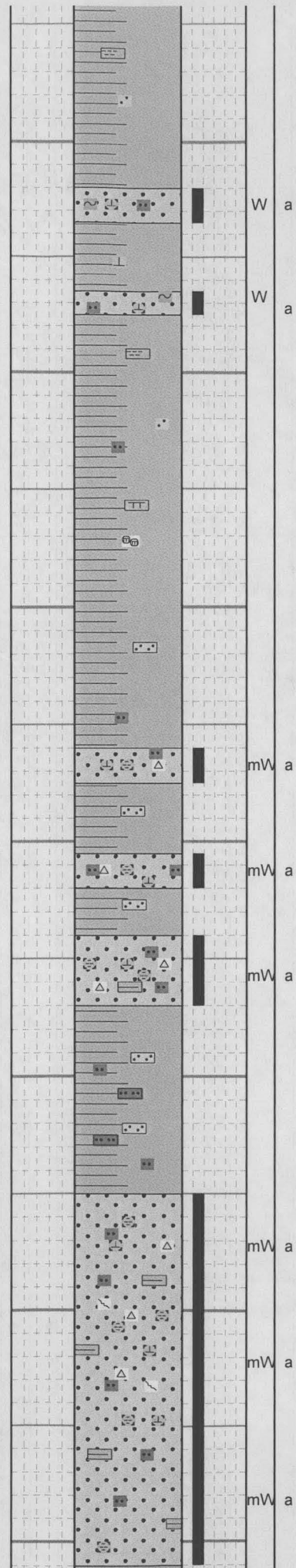
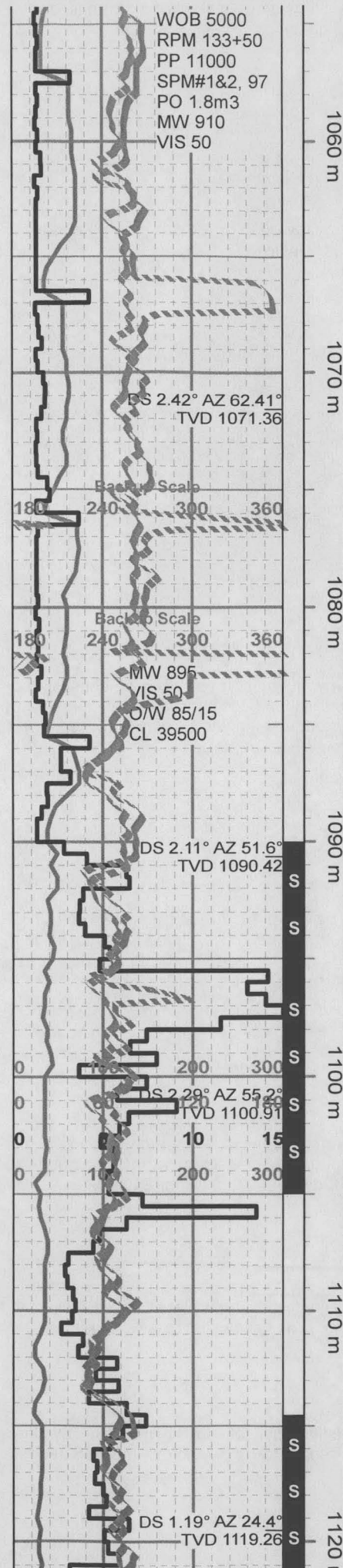
Sh: m gy, gy gn ip, tr red brn, plty, sbfis, sily  
mmca, tr slty ip / occ intbd Ss strgs, lt - m gy, gy  
gn, vf gred, sb ang, w srt, calcs & cly cmt, shy, tt,  
no shows.

Sh: m gy, gy gn ip, tr red brn, plty, sbfis, sily  
mmca, tr slty ip / occ 5% intbd Ss strgs, lt - m gy,  
gy gn, vf gred, sb ang, w srt, calcs & cly cmt, shy,  
tt, no shows.

Sh: lt - m gy, sbfis ip, sily mmca, occlly slty, sily  
calcs ip, grds to shy slty ip, tr fros calc (mnr fracs)  
tr mnr lt gy clyst strgs, tr mnr Ss strgs aa.

Sh: lt gy, vf gred, sb ang, w srt, calcs & cly cmt, tr  
dk lit grs, grds to sdy sltst ip, slty, shy, tt, no  
shows.

Sh: predly m gy, sbfis ip, sily mmca, occlly slty,  
sily calcs ip, grds to shy slty ip, tr mnr Ss strgs aa.



Sh: predly m gy, sbfis ip, slyl mmca, occ slyl wxy tex, occly slty, slyl sdy ip / occ intbd clyst lt gy, sft, slyl calcs.

W a Ss: lt gy, vf gred, sb ang, w srt, qtz & lt cold cht, calcs & cly cmt, slty, shy, p tr glaucic, tr dk lit grs, occly grds to sdy sltst, no vis por, no shows.

Sh: lt - m gy, sbfis ip, slyl mmca, occ slyl wxy tex, occly slty, tr sdy / occ intbd clyst lt gy, sft, slyl calcs, grds to mrlst ip.

Sh: aa

mW a Ss: lt gy, vf gred, sb ang, modly w srt, qtz & lt cold cht, calcs & cly cmt, tr mnr dk lit grs, slty, occly shy, no vis por or shows.

mW a Ss: lt gy, vf gred, sb ang, modly w srt, qtz & lt cold cht, calcs & cly cmt, tr mnr dk lit grs, slty, occly shy, no vis por or shows.

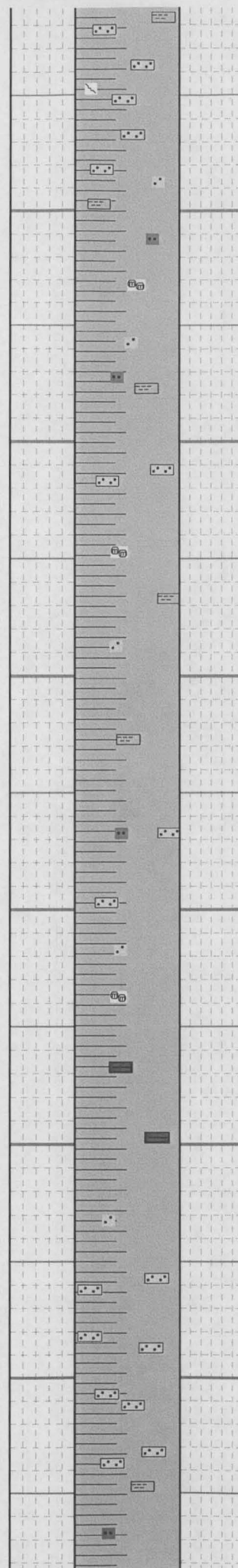
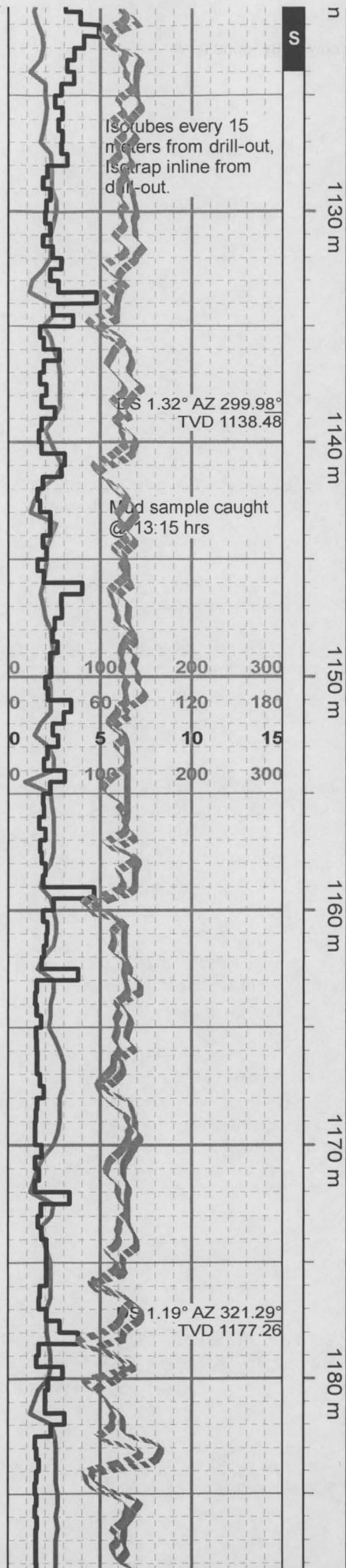
Sh: aa / abnt crm clyst, sft, calcs, grds to mrlst ip, occly sdy & slyl slty.

mW a Ss: lt gy, vf gred, sb ang, modly w srt, qtz & lt cold cht, calcs & cly cmt, tr mnr dk lit grs, slty, occly grds to sdy sltst ip, occly shy, no vis por or shows.

mW a Ss: aa, occ red brn ss, fer, tr fros calc in sample indicating fracs.

mW a Ss: lt gy, vf gred, sb ang, modly w srt, qtz & lt cold cht, calcs & cly cmt, tr mnr dk lit grs, slty, occly shy, slyl sidic ip, no vis por or shows.





Sh: m gy / mnrlt & dkr gy, sbfis ip, occlly slty & sdy, slly mmca, occ intbd lt gy & rust gy clyst, v sft, occlly grds to mrlst ip, fros calc in sample ab.

Sh: m gy / mnrlt & dkr gy, sbfis ip, occlly slty & sdy, slly mmca, occ intbd lt gy clyst, v sft, occlly grds to mrlst ip.

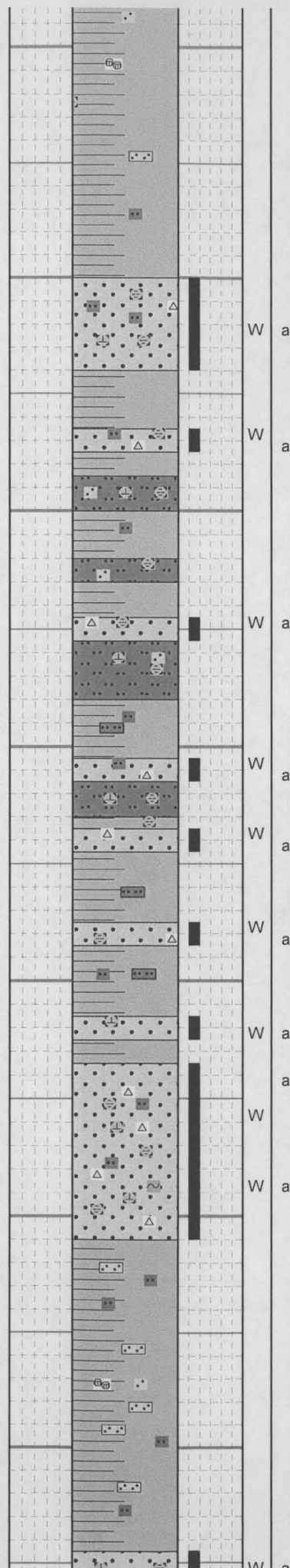
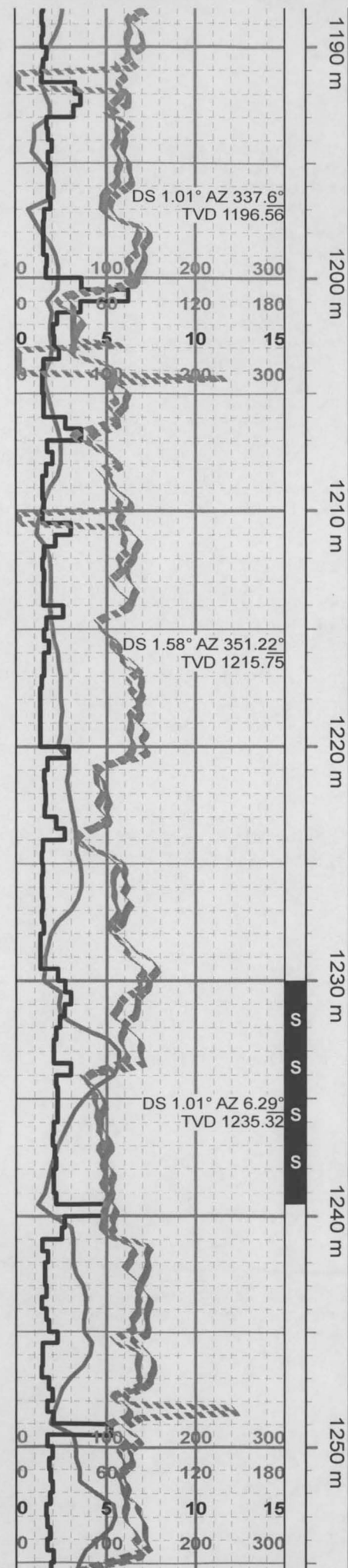
Sh: m gy / mnrlt & dkr gy, sbfis ip, occlly slty & sdy, slly mmca, occ intbd lt gy clyst, v sft, occlly grds to mrlst ip / mnrlt Ss strgs aa.

Sh: m gy / mnrlt & dkr gy, sbfis ip, occlly slty & sdy, slly mmca, tr clyst aa / 10% intbd Ss strgs aa.

Sh: aa, tr mnrlt red gy fer sh strgs.

Sh: aa / 10-15% Ss strgs crm - lt gy, vf gred, sb ang, w srt, qtz & lt cold cht, calcs & cly cmt, tr dk lit grs, slty, shy, tt, no shows.

Sh: lt - m gy, mnrlt dk gy aa.



**Sh:** m - dk gy, sbfis ip, slly carb, slly mmca, slty & tr sdy ip, occlly grds to shy sltst ip / 5% Ss strgs aa.

**Ss:** crm, vf gred, sb ang, w srt, qtz & lt cold cht, calcs & cly cmt, slty, p tr dk lit grs, p tr arkic, no vis por or shows.

**Sltst:** lt - m gy, cly cmt, calcs ip, shy, sdy, grds to vf gred ss ip, tr dk lit grs, tt, no shows.

**Sltst:** lt - m gy, cly cmt, calcs ip, shy, sdy, grds to vf gred ss ip, tr dk lit grs, tt, no shows.

**Sltst:** lt - m gy, cly cmt, calcs ip, shy, sdy, grds to vf gred ss ip, tr dk lit grs, tt, no shows.

**Sh:** m - occlly dk gy, sbfis ip, slly carb ip, occlly v slty, tr sdy, slly mmca, slly wxy tex ip.

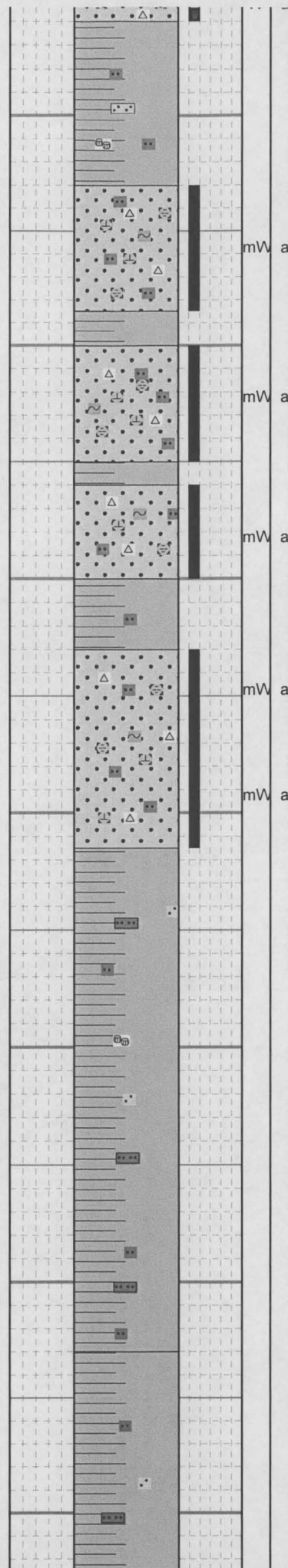
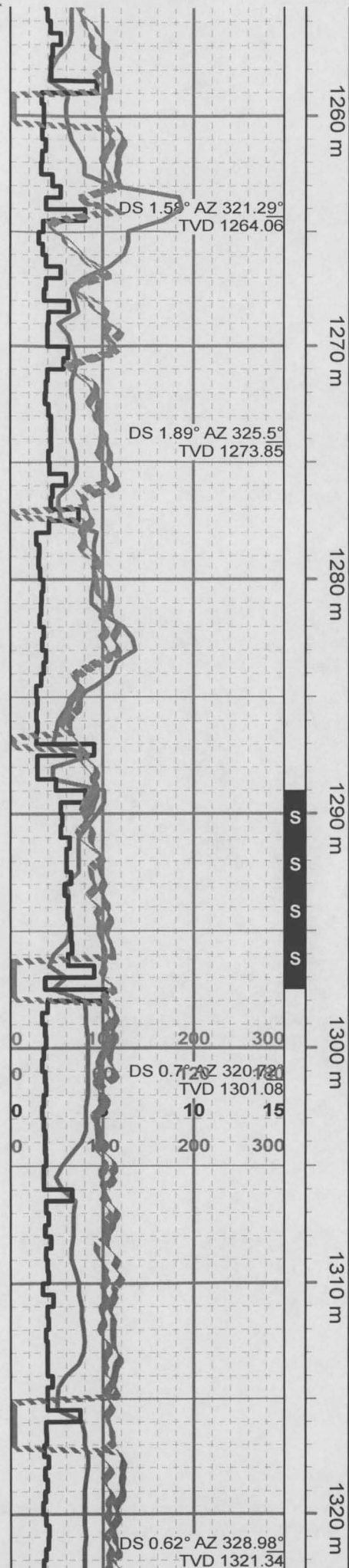
**Ss:** v lt gy, vf gred, sb ang, w srt, qtz & lt cold cht, calcs & cly cmt, slty, shy ip, tr dk lit grs, p tr glauic, grds to sltst, tt, no shows.

**Sh:** m - occlly dk gy, sbfis ip, slly carb ip, occlly v slty, tr sdy, slly mmca, slly wxy tex ip.

**Sh:** m - occlly dk gy, sbfis ip, slly carb ip, occlly v slty, tr sdy, slly mmca, slly wxy tex ip.

**Ss:** v lt gy, vf gred, sb ang, w srt, qtz & lt cold





Ss: v lt gy, vf gred, sb ang, w srt, qtz & lt cold, calcs & cly cmt, slty, shy ip, tr dk lit grs, p tr glauic, grds to sltst, tt, no shows.

Ss: v lt gy, vf gred, sb ang, modly w srt, qtz & lt cold, calcs & cly cmt, tr glauic, slty, shy, tr dk lit grs, tt, no shows.

Ss: lt gy, vf gred, sb ang, modly w srt, qtz & lt cold, calcs & cly cmt, tr glauic, slty, shy ip, tr dk lit grs, tt, no shows.

Ss: lt gy, vf gred, sb ang, modly w srt, qtz & lt cold, calcs & cly cmt, tr glauic, slty, shy ip, tr dk lit grs, tt, no shows.

Ss: lt gy, vf gred, sb ang, modly w srt, qtz & lt cold, calcs & cly cmt, tr glauic, slty, shy ip, tr dk lit grs, tt, no shows. Occly grds to sdy Sltst ip.

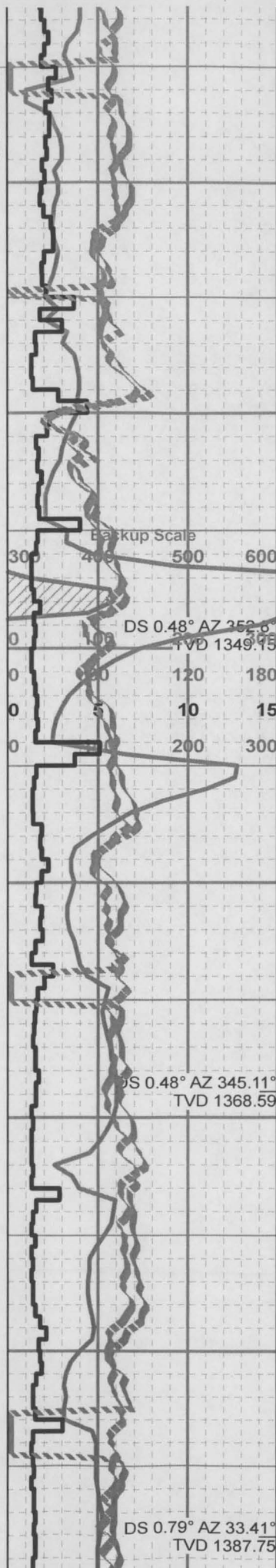
Sh: m gy, blkly, slty, sdy ip, slly mmca, grds to shy sltst ip.

Sh: m gy, blkly, slty, sdy ip, slly mmca, grds to shy sltst ip.

Sh: m gy, blkly, slty, sdy ip, slly mmca, grds to shy sltst ip.

Sh: m gy, blkly, slty, sdy ip, slly mmca, grds to shy sltst ip.

Feb 5, 2013



1330 m

1340 m

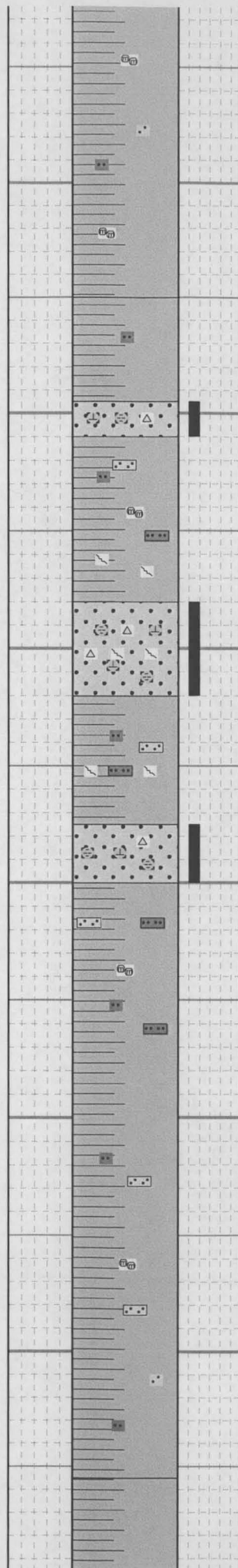
1350 m

1360 m

1370 m

1380 m

1390 m



mW a

mW a

mW a

Sh: m gy, blk, slty, sdy ip, slly mmca, grds to shy sltst ip.

Sh: m gy, blk, slty, sdy ip, slly mmca, grds to shy sltst ip.

Ss: lt gy, vf gred, sb ang, modly w srt, qtz & lt cold, calcs & cly cmt, tr glauc, slty, shy ip, tr dk lit grs, tr fros calc (fracs) no vis por, no shows.

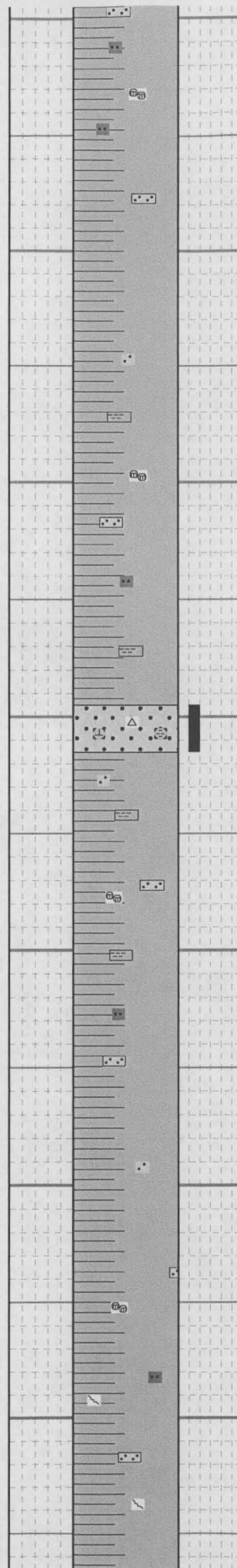
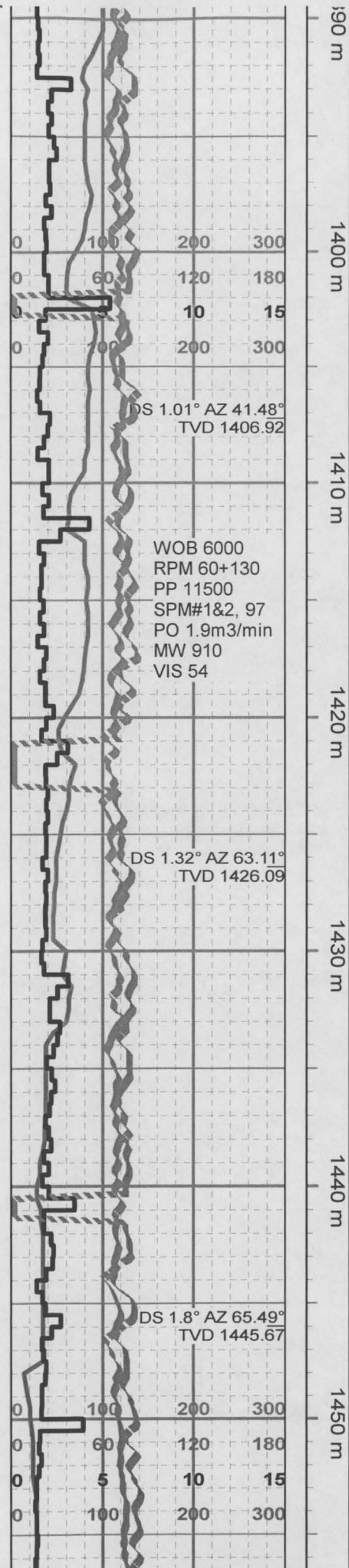
Ss: lt gy, vf gred, sb ang, modly w srt, qtz & lt cold, calcs & cly cmt, tr glauc, slty, shy ip, tr dk lit grs, tr fros calc (fracs) no vis por, no shows.

Sh: m gy, dk gy ip, sbfis ip, slly mmca, occlly slty, tr sdy, slly carb ip / 10% Ss aa.

Sh: m gy, dk gy ip, sbfis ip, slly mmca, occlly slty, tr sdy, slly carb ip / 5% Ss strgs aa.

Sh: m gy, dk gy ip, sbfis ip, slly mmca, occlly slty, tr sdy, slly carb ip / 5% Ss strgs aa.





Sh: m gy, dk gy ip, sbfis ip, slly mmca, occly slty, tr sdy, slly carb ip / 5% Ss strgs aa.

Sh: m gy, dk gy ip, sbfis ip, slly mmca, occly slty, tr sdy, slly carb ip / 5% Ss strgs aa.

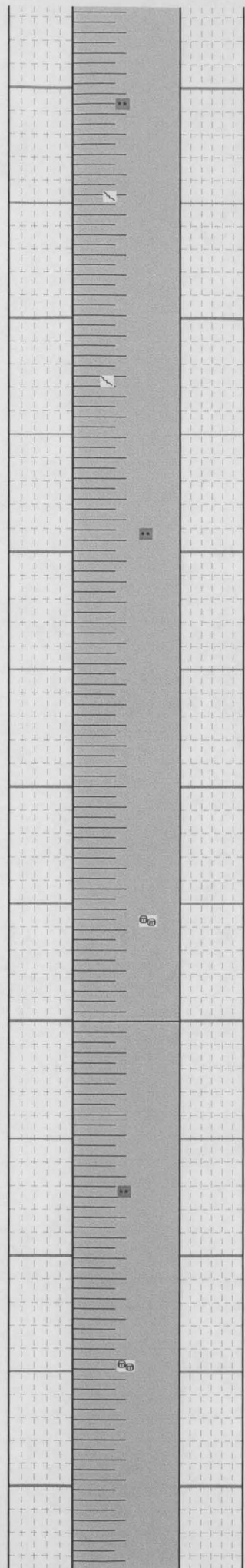
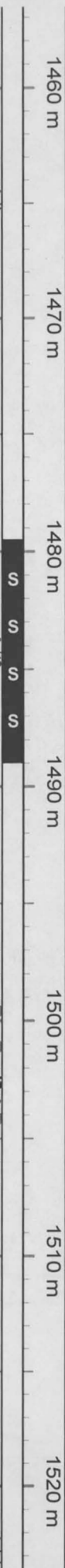
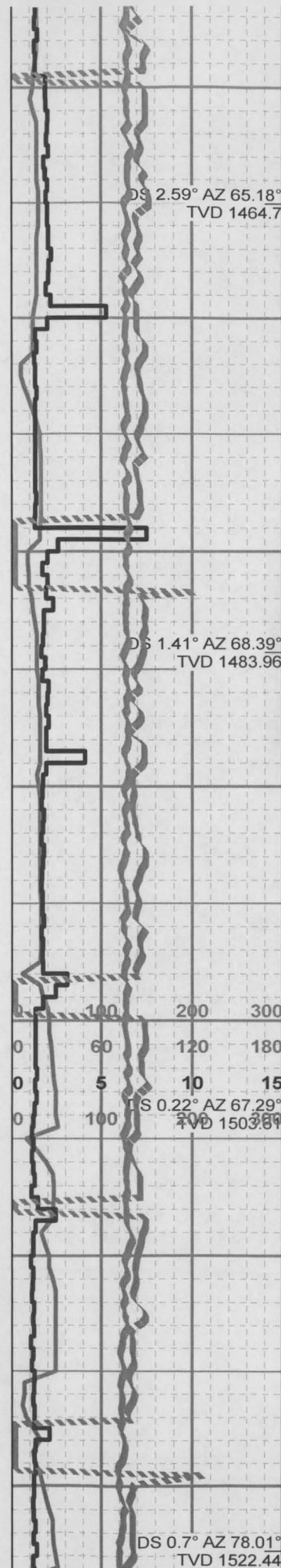
Sh: aa

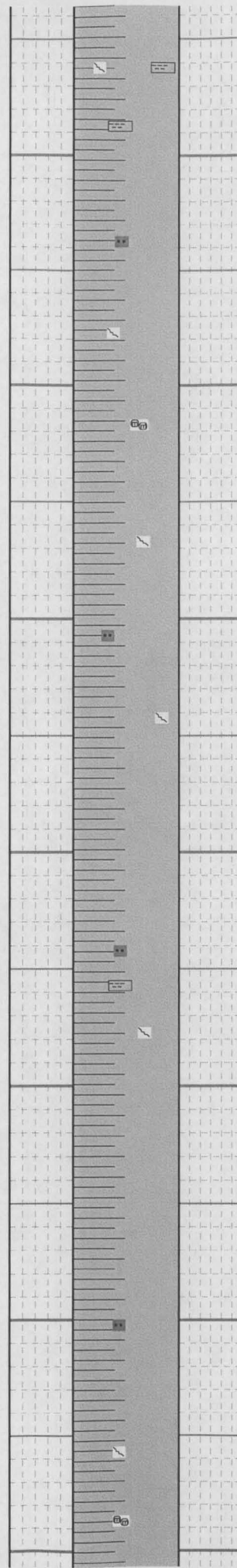
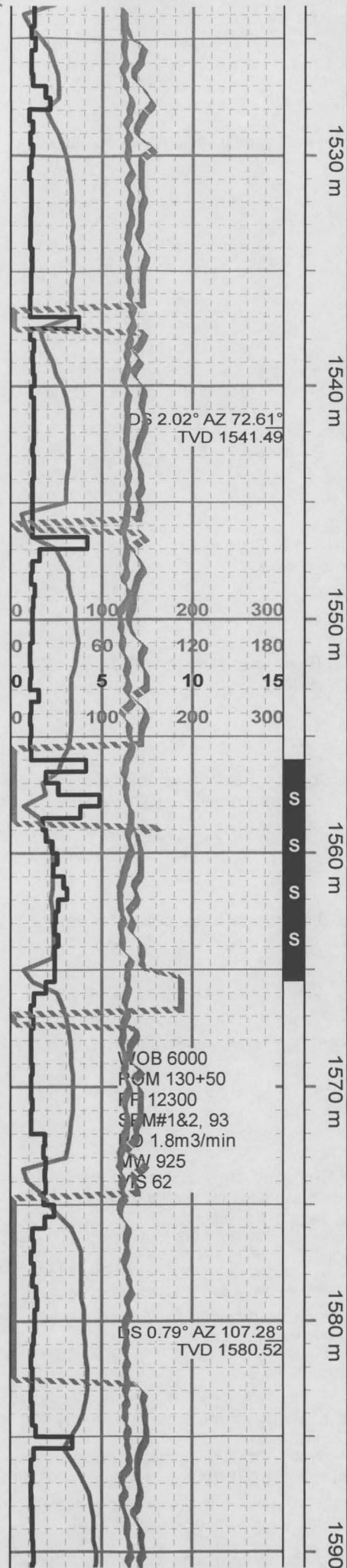
Ss: lt gy, l vf gred, sb ang, w srt, qtz & lt cold cht, calcs & cly cmt, slty, shy ip, tr dk lit grs, grds to sdy sltst ip, tt, no shows

Sh: m gy, dk gy ip, sbfis ip, slly mmca, occly slty, tr sdy, slly carb ip / occ lt gy Clyst, sft, occly slty, slly calcs ip, grds to mrlst ip / 5% Ss strgs aa.

Sh: m gy, mnr dk gy ip, sbfis ip, slly mmca, occly slty, tr sdy, slly carb ip, tr mnr SS lams aa.

Sh: m gy, mnr dk gy, sbfis ip, slly mmca, tr slty ip / tr fros calc in sample (mnr fracs?)





Sh: m - dk gy, sbfis, sily mmca, sily wxy tex, tr slty ip / mnr Clyst strgs aa / tr fros calc in sample from pos fracs.

Sh: predly m gy, plty, sbfis, sily mmca, p tr slty ip, tr clyst aa, tr fros calc aa.

Sh: aa.

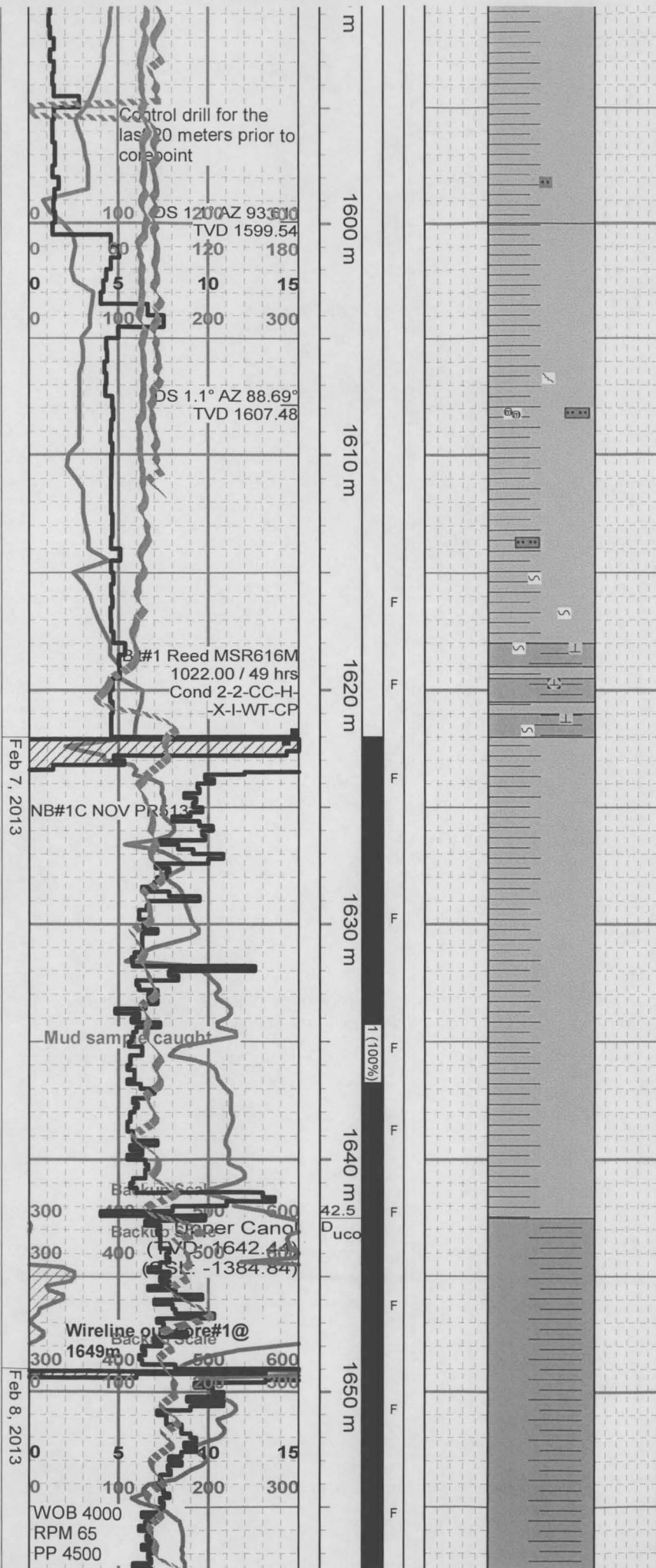
Sh: predly m gy, plty, sbfis, sily mmca, p tr slty ip, tr clyst aa, tr fros calc aa.

Sh: predly m gy, sbfis, sily mmca, p tr slty ip, tr clyst aa, tr fros calc aa.

Sh: predly m gy, mnr dk gy, predly sbfis, sily mmca, tr slty ip.

Sh: predly m gy, incrg dk gy, predly sbfis, sily mmca, tr slty ip, tr mnr fros cxln calc (fracs?)





Sh: m - dk gy, predly sbfis, sly mmca, tr slty ip.

Sh: aa / tr calc aa / tr mntr Sltst strgs, lt gy, sdy, cly cmt, tr calcs, grds to vf gred ss ip, tt, no shows.

Sh: aa / tr mntr Sh m gy brn, blk, bcmg sly bits, yel flor in solvent.

Sh: aa / Sh m - dk gy brn, blk, bits, sft, calcs, tr pyr, flor yel in solvent.

1623.5 Sh: dk gy, sbfis, sly mmca, frm - hd, sils? no dry flor, slow pale yel cut with solvent.

#### CORE#1 FROM 1622 - 1649m

Sh: 1629.5m, dk gy, sbfis, sly mmca, frm - hd, sils? flor aa.

1634.0 Sh: dk gy, sbfis, sly mmca, frm - hd, modly brit, sils? tr mntr carb mat (pl rmns?) flor aa.

1637.0 Sh: dk gy, sbfis, sly mmca, frm - hd, modly brit, sils? tr pyr, flor aa.

1641.5 Sh: dk gy, sbfis, sly mmca, frm - hd, modly brit, sly bits, sly sils? tr small pyr nods, abnt spc spics, flor aa.

1643 Sh: aa occly abnt dism pyr <sup>inf</sup> Upper Canol (TVD: 1642.44) / frac infilled / fros m xln calc.

1644.5 Sh: dk gy, dk gy brn, bri, bits, occ spics aa, show aa incrg flor, hycd odor.

1646 Sh: dk gy, dk gy brn, sly calcs, sly bits, occ spics aa, show aa hycd odor aa.

1647.5 Sh: dk gy - dk gy brn, sly bits, tr spics, sly calcs, shows aa.

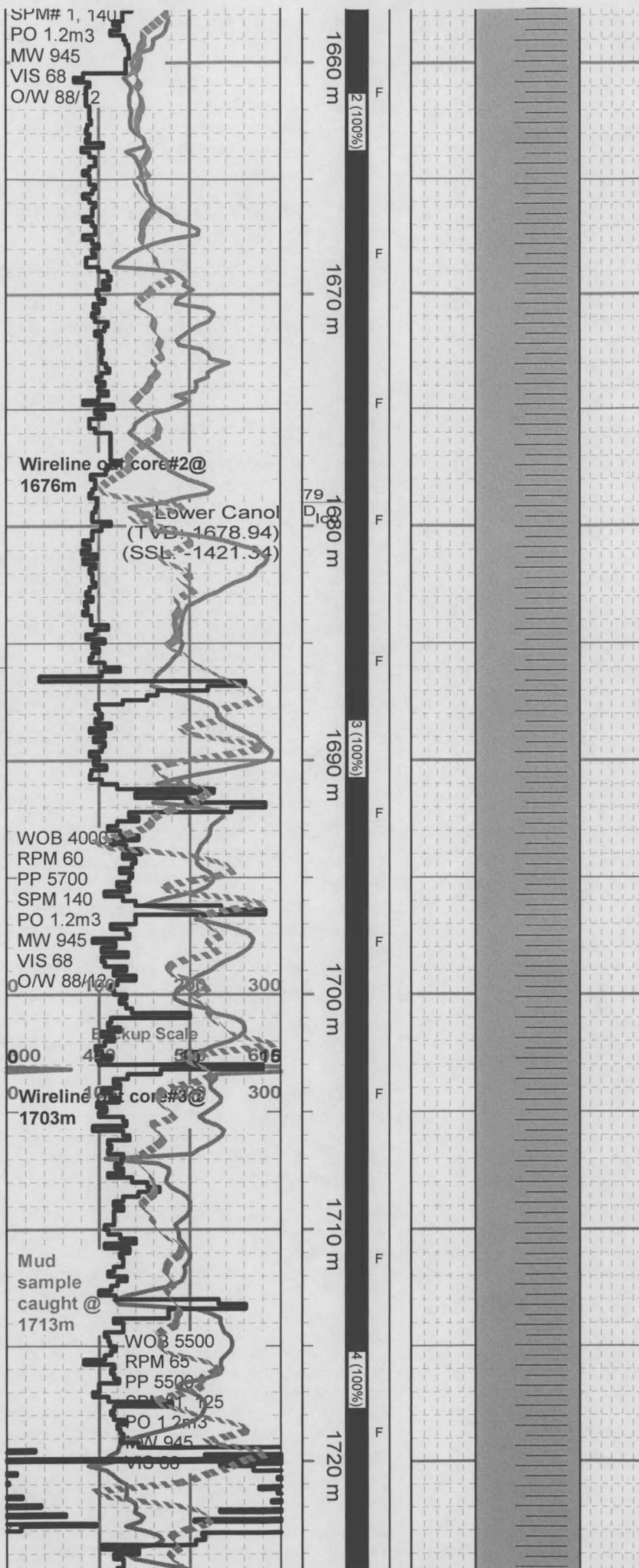
Sh: dk gy, grds to dk gy brn ip, sbfis, sly mmca, v sly calcs, p tr pyr, tr mntr carb mat, no dry flor, pale slow vel cut.

Sh: dk gy, grds to dk gy brn ip, sbfis, sly mmca, v sly calcs, p tr pyr, incrg org carb mat, no dry flor,

Sh: m gy brn, sbfis, sly mmca, sly bits, mntr carb mat, no dry flor, v faint pale slow yel cut.

Sh: m - dk gy, gy brn, sbfis, sly mmca, mntr org

Feb 9, 2013



carb mat, freq dism pyr, no dry flor, v faint pale slow vel cut.

Sh: gy brn, sbfis, sly mmca, sly bits, mnr org carb mat, no dry flor, v faint pale slow yel cut.

#### CORE#2 FROM 1649 - 1676m

Sh: gy brn, sbfis, sly mmca, sly bits, mnr org carb mat, tr sly slty, tr dism pyr, no dry flor, v faint pale slow yel cut.

Sh: gy brn, sbfis, sly mmca, sly bits, mnr org carb mat, tr sly slty, no dry flor, v faint pale slow yel cut.

Sh: gy brn, sbfis, sly mmca, sly bits, mnr org carb mat, tr sly slty, tr dism pyr, no dry flor, v faint pale slow vel cut.

Sh: gy brn, sbfis, sly mmca, sly bits, mnr org carb mat, tr sly slty, tr dism pyr, no dry flor, v faint

Sh: gy brn, sbfis, sly mmca, sly bits, mnr org carb mat, tr sly slty, no dry flor, v faint pale slow vel cut.

Sh: gy brn, fis, sly mmca, frm - hd, bcmg sils? sly bits, mnr org carb mat, tr sly slty, no dry flor,

CORE#3 FROM 1676.0 - 1703.0m  
CUT: 27.0m, REC: 27.0m  
Lower Canol (TVD: 1678.94) (SSL: -1421.34)  
Sh: dk gy brn, fis, sly mmca, frm - hd, bcmg brit, carb org mat, faint shows aa.

Sh: aa, incrg dism pyr, micro fracs infilled / pyr.

Sh: gy brn, fis, sly mmca, frm - hd, sly sils? occlly brit, sh lamd / pyr, tr lamd / sdy sh ip, faint shows aa.

Sh: aa, abnt dism pyr, abnt unident fos (pl rmn) casts lined / carb mat, tr spics?

Sh: gy brn, fis, sly mmca, frm - hd, sils? brit, carb org mat, tr pyr aa, faint shows aa.

Sh: dk gy brn - blk, sils, brit, hd, tr unident fos casts? mnr pyr aa, faint show aa.

Sh: dk gy brn, aa, sils? , tr occlly specd / lt & dk rdd cht, shows aa.

Sh: dk gy brn, sils, hd, brit, sly mmca, dism pyr, tr micro fracs, v faint slow pale yel cut.

Sh: dk gy - dk gy brn, fis, splty, mmca incrg sly, sils? dism pyr, abnt carb org mat, no dry flor, slow pale yel stmg cut. No vis o bldg from core thru.

Sh: aa, abnt dism pyr.

Sh: dk gy brn, hd, sbfis, sly mmca, mnr dism pyr, mnr carb org mat, faint flor aa.

CORE#4, 1703.0 - 1730.0m, Cut: 27.0m, Rec: 27.0m

Sh: dk gy brn, hd, sils?, sly mmca, dism pyr, mnr carb org mat, unident fos casts, (brac?) faint flor aa.

Sh: dk gy brn, hd, sils?, sly mmca, dism pyr, mnr carb org mat, faint flor aa.

Sh: dk gy brn, hd, sils?, v sly calcs, sly mmca, dism pyr, mnr carb org mat, mnr thin bioturb lavers. faint flor aa.

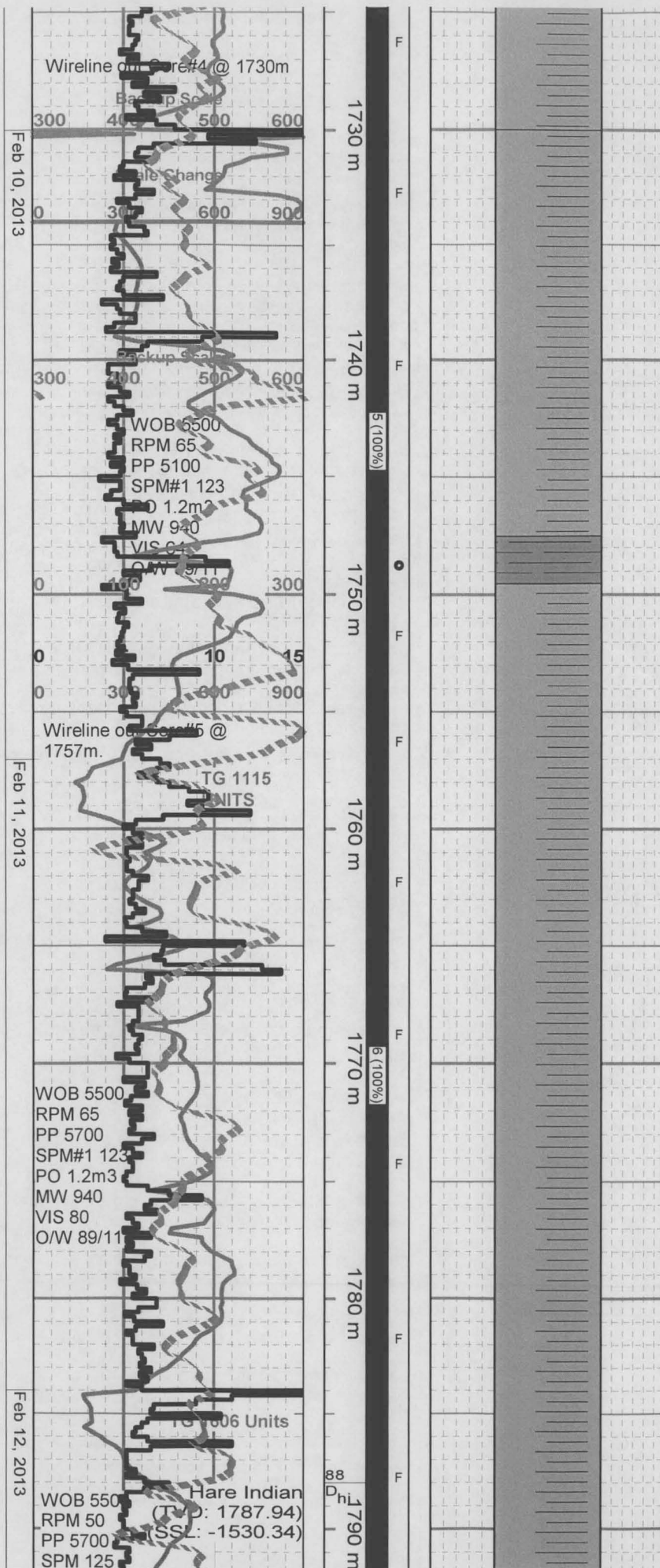
Sh: dk gy brn, hd, sils?, v sly calcs, sly mmca, dism pyr, mnr carb org mat, poss hydc odor, faint flor aa.

Sh: aa, hd, brit, lamd / brn cht strgs?

Sh: dk gy brn - occlly blk aa, lamd / brn cht strgs

Sh: gy brn, hd, brit, sils, incrg calcs, sly mmca,





dism pyr, carb org mat, flor aa.

Sh: dk gy brn, hd, brit, sbfis, sils, sly calcs, sly mmca, tr dism pyr, tr org mat aa, tr v slow flor aa.

Sh: dk gy brn, hd, brit, sbfis, sils, sly calcs, sly mmca, tr dism pyr, tr org mat aa, tr v slow flor aa. No vis o bldg from core thru.

Core#5 1730-1757, Cut:27m, Rec:

Sh: dk gy brn, sbfis, sly sils, sly calcs, mmca, no vis pyr, tr org mat aa, slow pale yel stmg cut flor.

Sh: dk gy brn, hd, brit, sly sils? incrg calcs, sly mmca, tr dism pyr, sly calcs, shows aa.

Sh: dk gy brn, aa, incrg calcs, sly mmca, incrg carb org mat, thin fracs infilled / fros vf xln calc, shows aa.

Sh: dk gy brn, calcs, frm, less brit, sbfis, sly mmca, tr dism pyr, mnrcarb org mat, flor aa.

Sh: dk gy brn, incrg calcs, frm, sbfis, sly mmca, tr dism pyr, mnrcarb org mat, flor aa. Core appeared fracd at end of sleeve.

Sh: aa / strgs bioturb sh, dk gy, brit, tr v small fracs?

Sh: v dk gy brn - blk, carb, occly v calcs, tr small fracs, occ brit, strong hydc odor, wxy lstr with scr, g fast yel stmg cut flor.

Sh: dk gy brn, calcs, frm, sbfis, sly mmca, brit ip, tr dism pyr, mnrcarb org mat, flor aa.

Sh: dk gy brn, calcs, frm, sbfis, sly mmca, dism pyr / pyr lamd within sh, abnt carb org mat, flor aa.

Sh: dk gy brn, calcs, frm, sbfis, splty, sly mmca, tr dism pyr, mnrcarb org mat, flor aa. No vis o bldg from core thru.

Sh: dk gy brn, calcs, frm, sbfis, sly mmca, thin lamd pyr with sh, mnrcarb org mat, flor aa.

Core#6, 1757-1784, Cut:27m, Rec:27m

Sh: dk gy brn - occly blk, sly calcs, hd, brit, fis, carb / carb org mat, sly mmca, mnrcarb org mat, flor aa.

Sh: dk gy brn, sly calcs, hd, brit, fis, sils? sly mmca, tr pyr, occ carb org mat, flor aa.

Sh: v dk gy brn, sly calcs, frm - hd, brit, fis, sly mmca, no vis pyr, occ carb org mat, flor aa.

Sh: dk gy brn, sly calcs, frm - hd, sbfis, sly mmca, no vis pyr, occ carb org mat, flor aa.

Sh: dk gy brn, sly calcs, frm - hd, plty, fis, sly mmca, no vis pyr, occ carb org mat, flor aa.

Sh: dk gy brn - blk, sly calcs, frm, sbfis, sly mmca, tr dism pyr, tr micro fracs? occ carb org mat, flor aa.

Sh: dk gy brn, sly calcs, frm - hd, plty, fis, sly mmca, no vis pyr, occ carb org mat, flor aa.

Sh: dk gy brn, sly calcs, frm - hd, plty, sbfis, sly mmca, tr pyr, occ carb org mat, flor aa.

Sh: dk gy brn, sly calcs, frm, plty, sbfis, sly mmca, no vis pyr, occ carb org mat, flor aa. No vis o bldg from core thru.

Sh: dk gy brn - v dk gy, plty, fis, sly mmca, sly calcs, abnt carb org mat, sly mmca, abnt dism

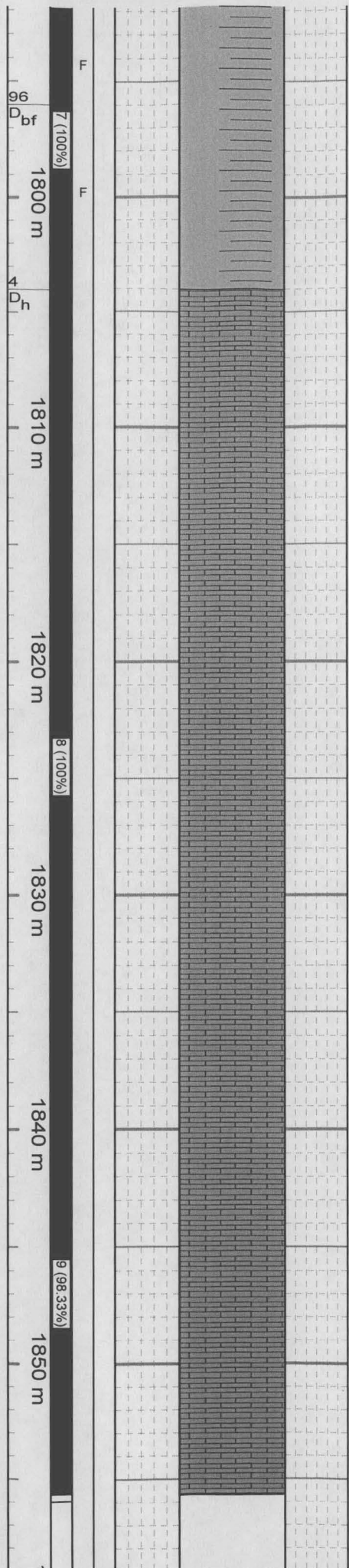
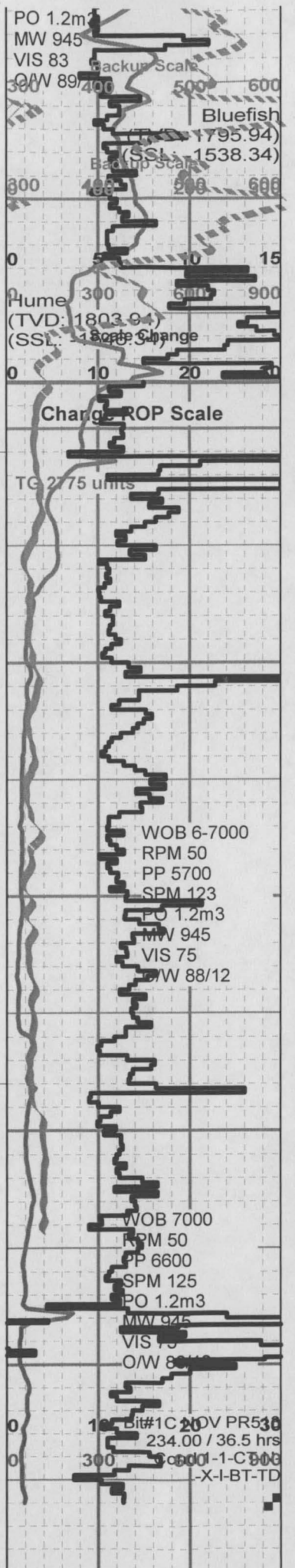
Core#7, 1784-1811m, Cut:27, Rec: 27m

Sh: dk gy brn - v dk gy, plty, fis, Hare Indian sly mmca, non calcs, carb org (TVD: 1787.94) mat, sly mmca, dism pyr lamd (SSL: -1530.34) Sh: v dk gy, plty, fis, sly mmca, abnt carb org



Feb 13, 2013

Feb 14, 2013



mat, sly mmca, abnt pyr, no aa.

Sh: v dk gy - blk, plty, fis, sly mmca, abnt carb org mat, sly mmca, tr pyr.

Sh: dk gy - dk gy brn, plty, fis, sly mmca, mot / abnt carb org mat, sly mmca, p tr calcs, Bluefish pyr, flor aa. (TVD: 1795.94) (SSL: -1538.34)

Sh: dk gy brn, calcs, mmca, abnt unident fos casts, carb mat aa, no dry flor, pale lt yel cloudy cut.

Sh: aa, tr plcy.

Hume  
(TVD: 1803.94)  
(SSL: -1546.34)

Ls: micr mtx, unident fos casts & frags, no vis por, no shows.

Ls: brn - dk brn, wkest / micr mtx, sly arg, unident fos shad, no vis por, no show

Ls: lt brn, fragl pkst? rexld f - m xln, abnt unident fos shad, no vis por, no show

Ls: lt brn, fragl wkest, micr mtx, unident fos casts infilled / calc, cor?, osts, bracs? no vis por, no show.

Ls: lt brn, fragl wkest, micr mtx, unident fos casts infilled / calc, no vis por, no show.

Ls: m brn, fragl wkest, micr mtx, sly arg, unident fos casts infilled / calc, no vis por, no show.

Ls: brn, fragl wkest, micr mtx, unident fos casts infilled / calc, osts, no vis por, no show.

Ls: brn, mdst - wkest, micr mtx, rexld vf xln, osts, unident fos infilled / fros calc (cor?) no vis por or shows.

Ls: brn, mdst, tr fos aa, dns, no show

Ls: brn, mdst - wkest, micr mtx, rexld vf xln ip, osts, unident fos casts infilled / fros calc, no vis por or shows.

Ls: brn, mdst - wkest, micr mtx, rexld mic - vf xln, osts, unident fos shad, no vis por or shows.

Ls: m brn, mdst, pels, ools, tr unident fos shad, dns, no shows.

Ls: brn, wkest, micr mtx, rexld f-m xln, osts, unident fos casts infilled / fros calc, no vis por or

Ls: brn, mdst - wkest, micr mtx, rexld vf xln, cor?, unident fos shad, no vis por or shows.

Core # 9, 1838 - 1856m.

Ls: brn, mdst - wkest, micr mtx, sly arg, rexld mic - vf xln, unident cor, amph? unident fos shad, no vis por or shows.

Ls: brn, mdst, sly arg, no vis fos, no vis por or shows.

Ls: aa, tr pyric, tr osts, dns, no shows / mnr dk gy - blk, sh lams, plty, fis, carb.

Ls: brn, mdst - wkest, micr mtx, sly arg, rexld mic - vf xln ip, unident fos shad, no vis por or shows.

Ls: brn, mdst - wkest, micr mtx, sly arg, unident fos shad, pels osts, no vis por or shows

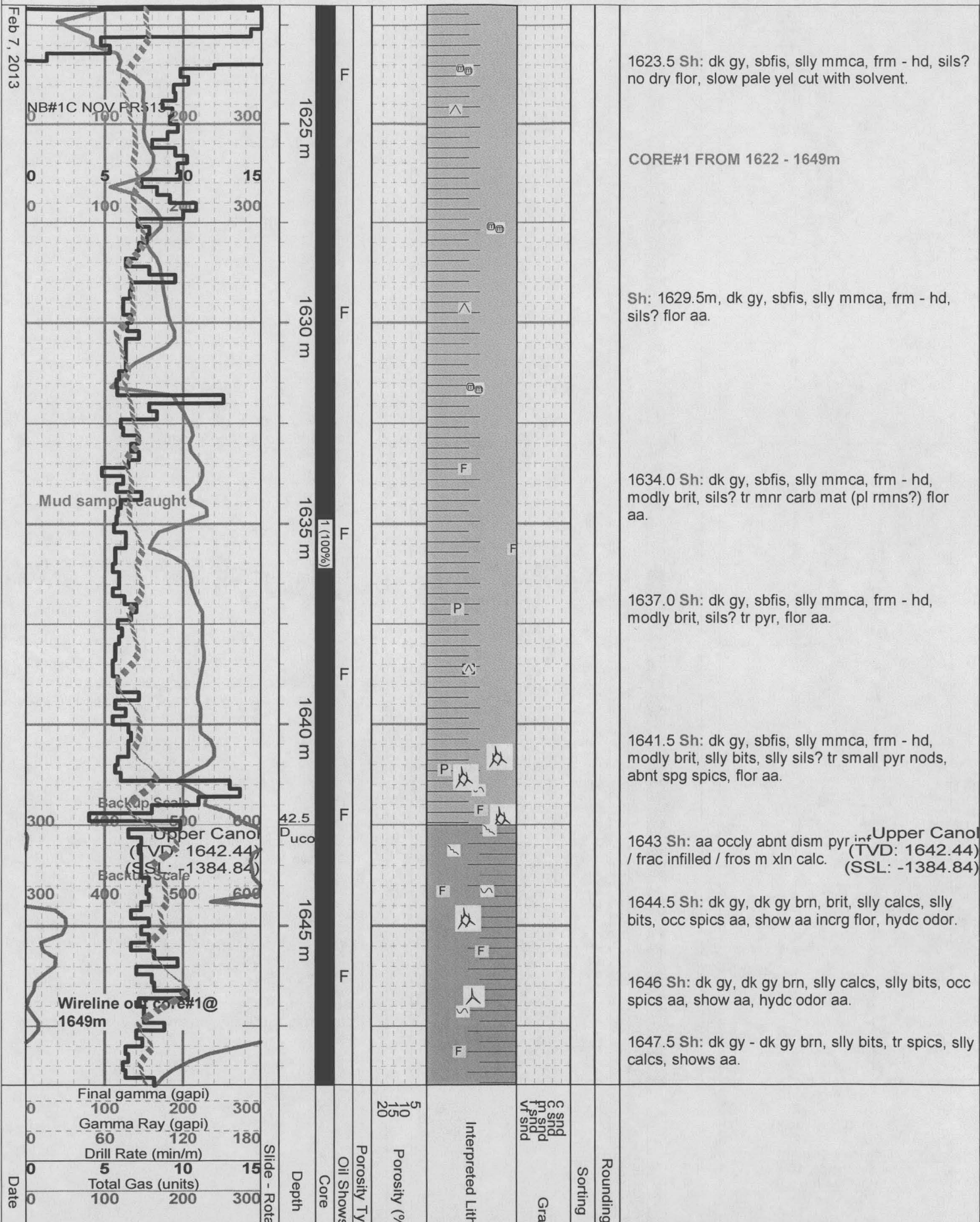
Ls: dk brn, floatstone / nod stroms, lime mud mtx, rexld mic - vf xln, arg, shy ip, unident fos casts, no

Ls: aa

Ls: brn, mdst - wkest, micr mtx, sly arg, unident fos shad, no vis por or shows.

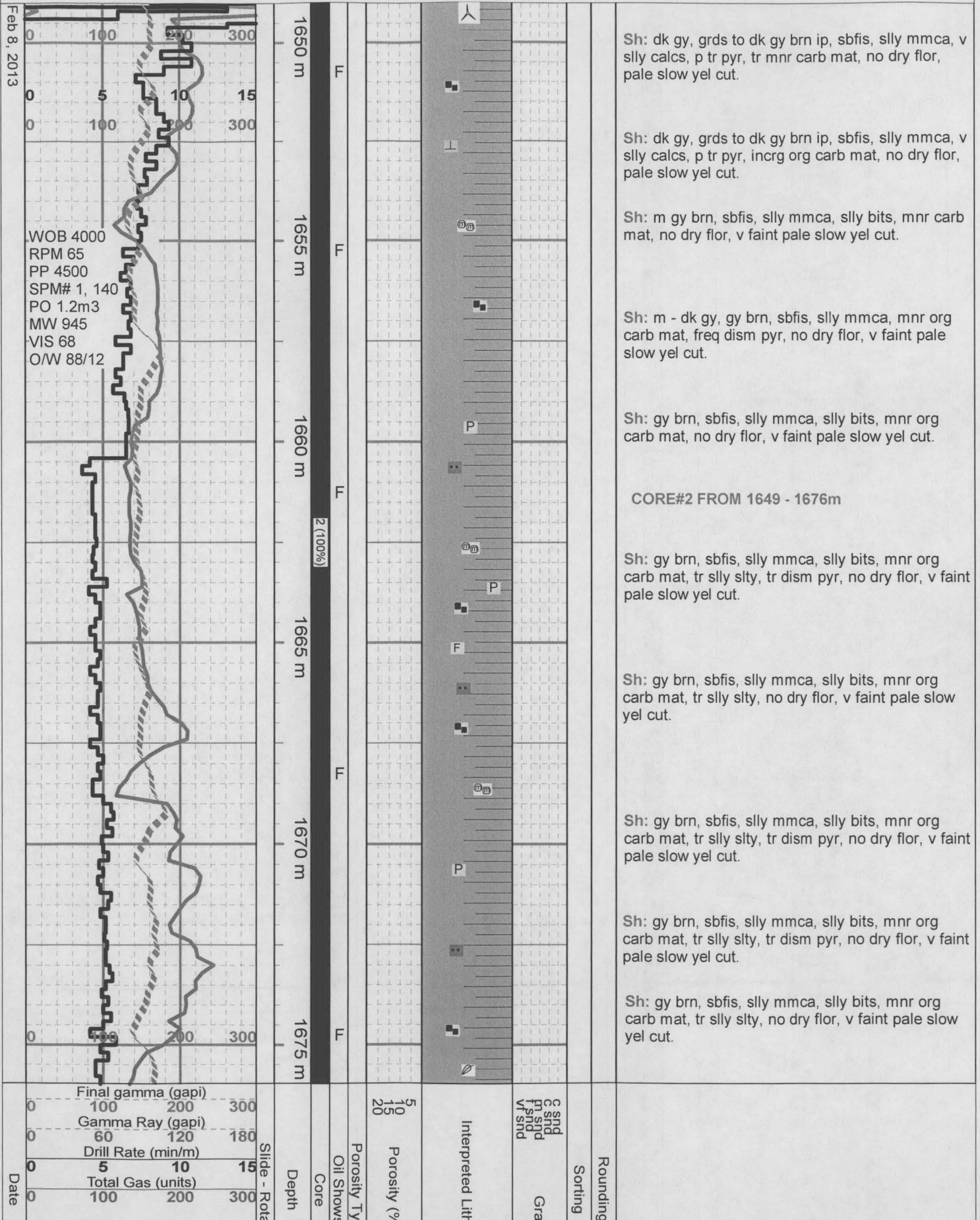
|                       |  |  |  |                       |  |  |  |
|-----------------------|--|--|--|-----------------------|--|--|--|
| Lithology Description |  |  |  | Rounding              |  |  |  |
|                       |  |  |  | Sorting               |  |  |  |
|                       |  |  |  | Grain Size            |  |  |  |
|                       |  |  |  | Interpreted Lithology |  |  |  |
| 5<br>10<br>15<br>20   |  |  |  | Porosity (%)          |  |  |  |
| Porosity Type         |  |  |  | Oil Shows             |  |  |  |
| Core                  |  |  |  | Depth                 |  |  |  |
| Slide - Rotate        |  |  |  | Drilling Progress     |  |  |  |
| Final gamma (gapi)    |  |  |  | Gamma Ray (gapi)      |  |  |  |
| 100                   |  |  |  | 200                   |  |  |  |
| 60                    |  |  |  | 120                   |  |  |  |
| 10                    |  |  |  | 20                    |  |  |  |
| 300                   |  |  |  | 600                   |  |  |  |
| 900                   |  |  |  | Date                  |  |  |  |

**Expanded Core Log (1:120) Feb 7, 2013**  
**Core #1 Interval: 1622.00m to 1649.00m Cut: 27m Recovered: 27m (100%)**



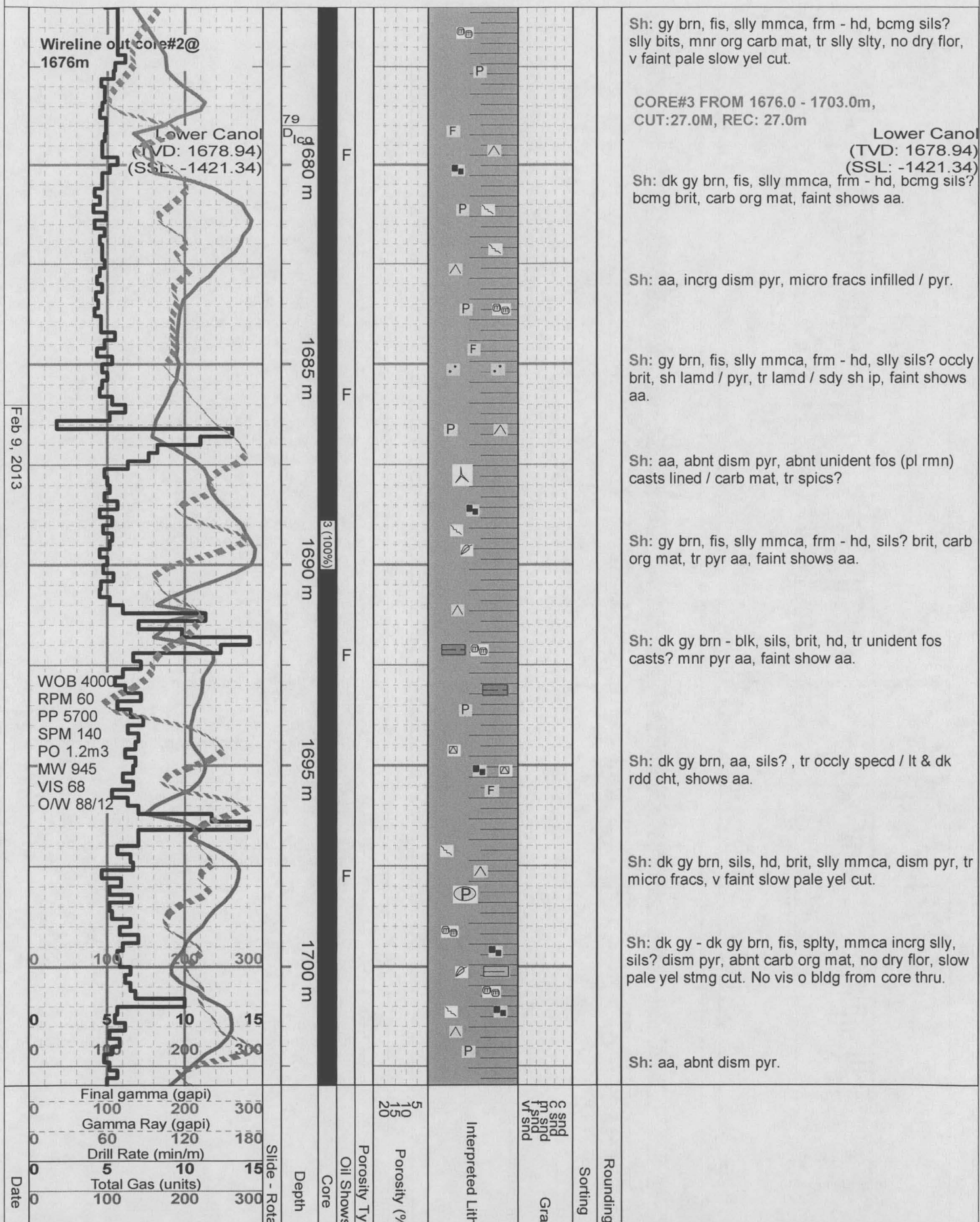


**Expanded Core Log (1:120) Feb 8, 2013**  
**Core #2 Interval: 1649.00m to 1676.00m Cut: 27m Recovered: 27m (100%)**

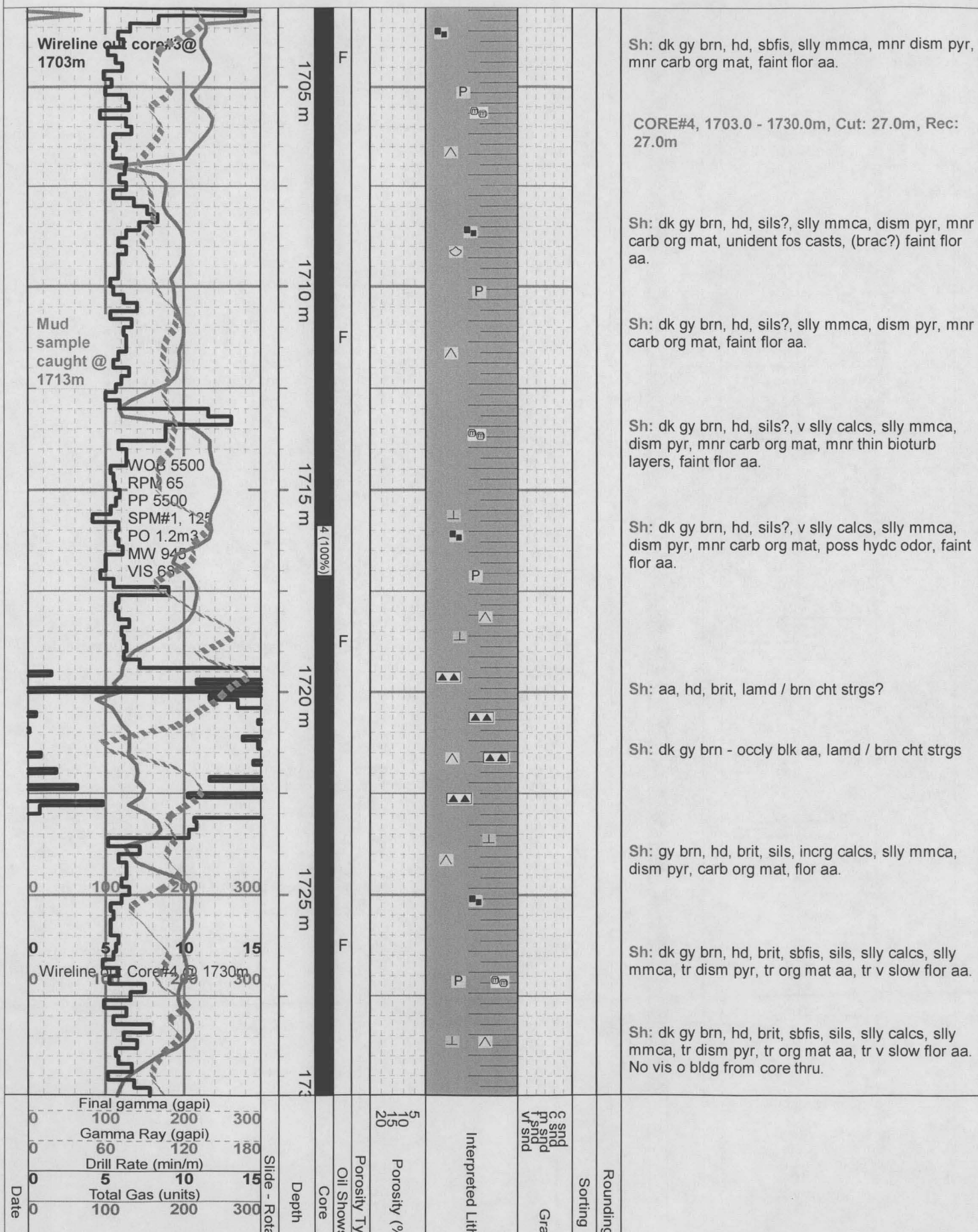


Core #3 Interval: 1676.00m to 1703.00m Cut: 27m Recovered: 27m (100%)

Core #3 Interval: 1676.00m to 1703.00m Cut: 27m Recovered: 27m (100%)

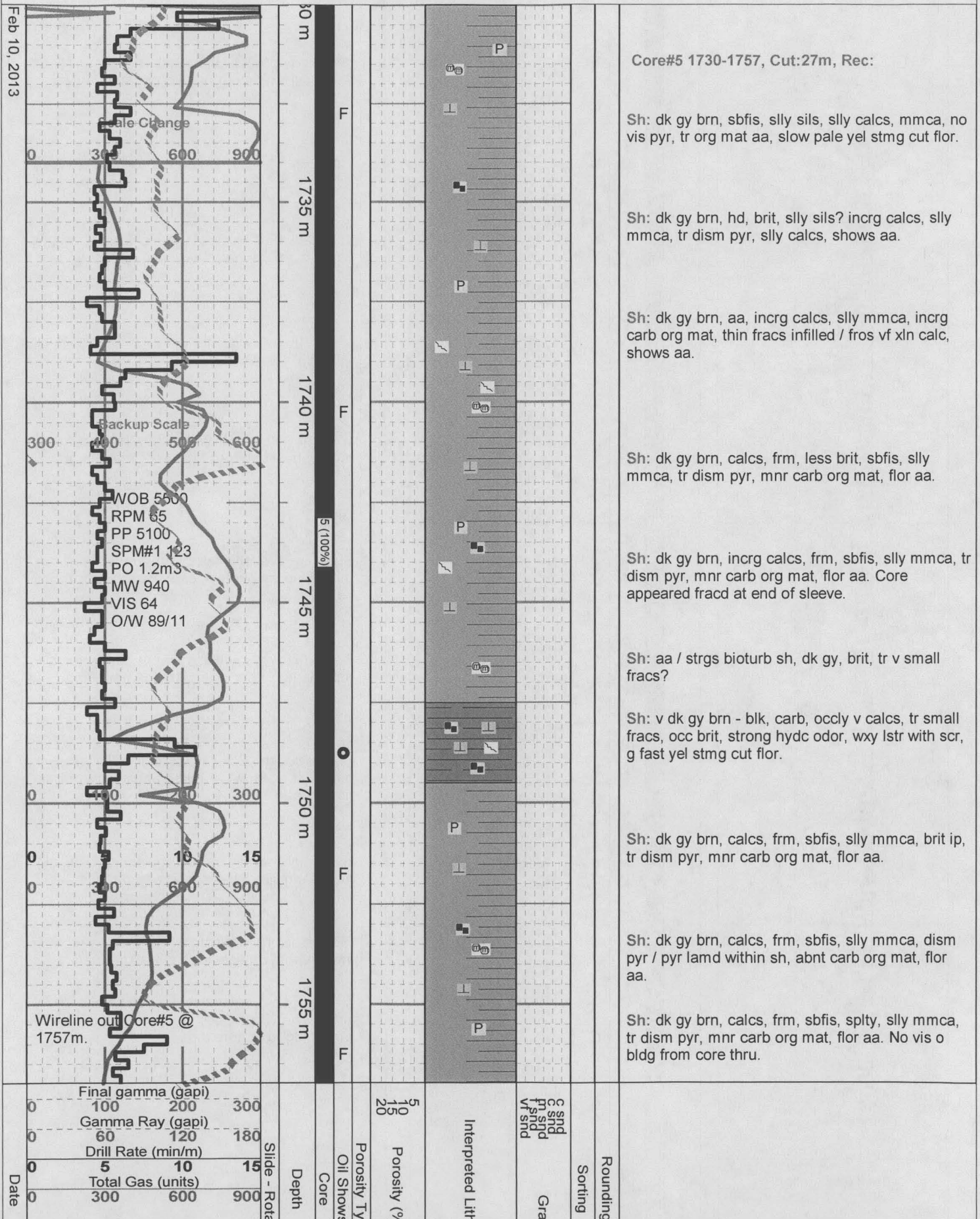


**Expanded Core Log (1:120) Feb 9, 2013**  
**Core #4 Interval: 1703.00m to 1730.00m Cut: 27m Recovered: 27m (100%)**



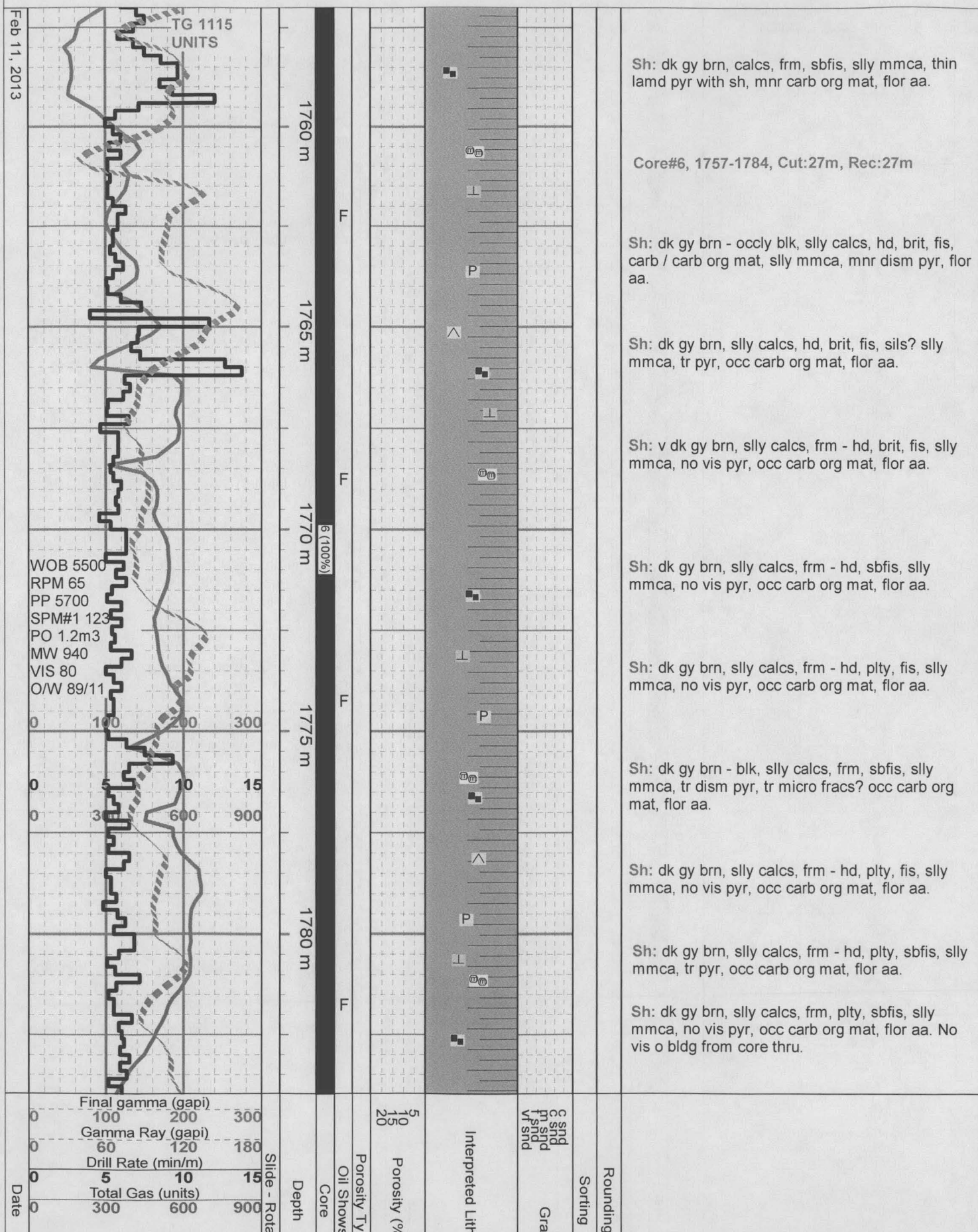


**Expanded Core Log (1:120) Feb 10, 2013**  
**Core #5 Interval: 1730.00m to 1757.00m Cut: 27m Recovered: 27m (100%)**



Core #6 Interval: 1757.00m to 1784.00m Cut: 27m Recovered: 27m (100%)

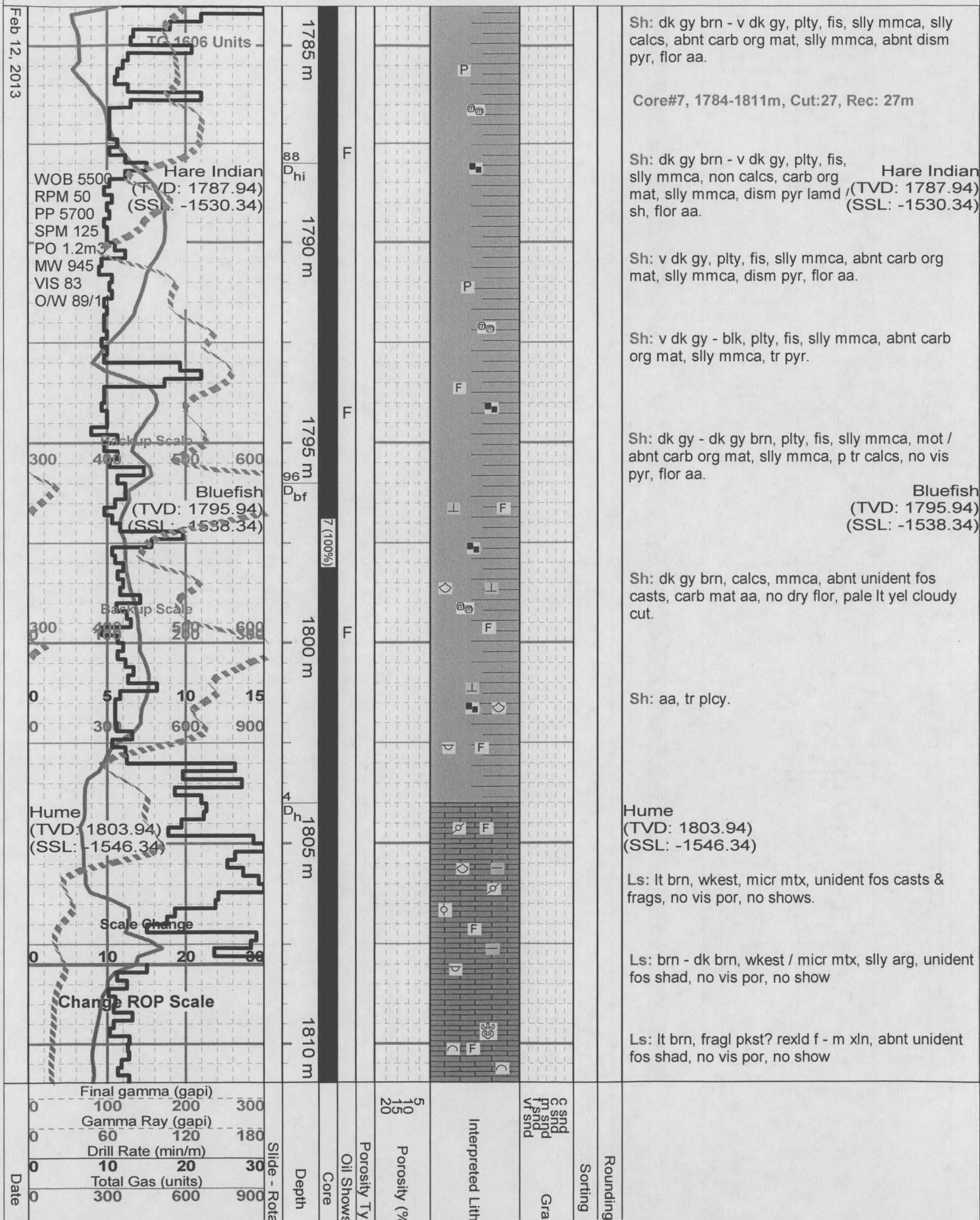
Core #6 Interval: 1757.00m to 1784.00m Cut: 27m Recovered: 27m (100%)





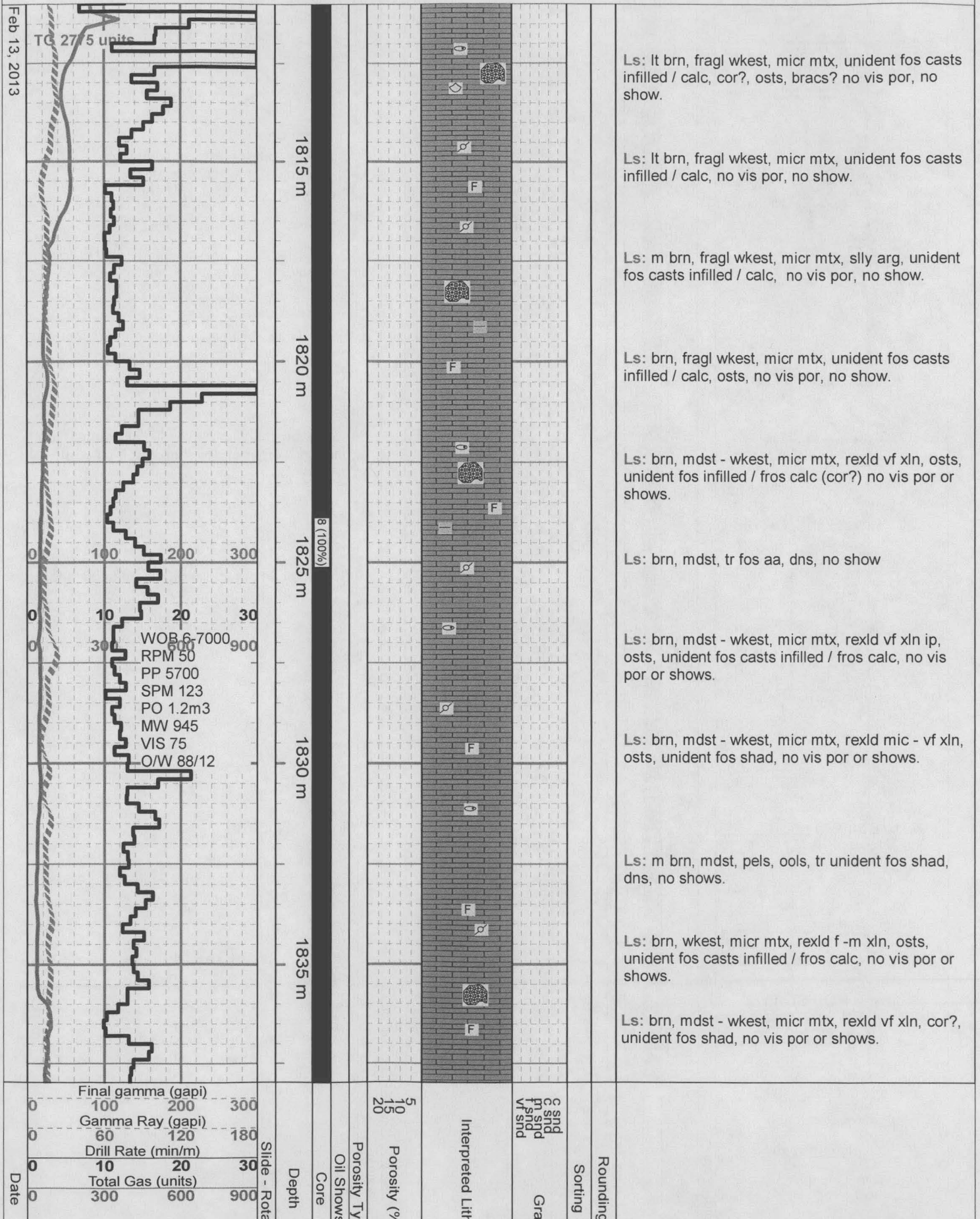
**Core #7 Interval: 1784.00m to 1811.00m Cut: 27m Recovered: 27m (100%)**

**Core #7 Interval: 1784.00m to 1811.00m Cut: 27m Recovered: 27m (100%)**



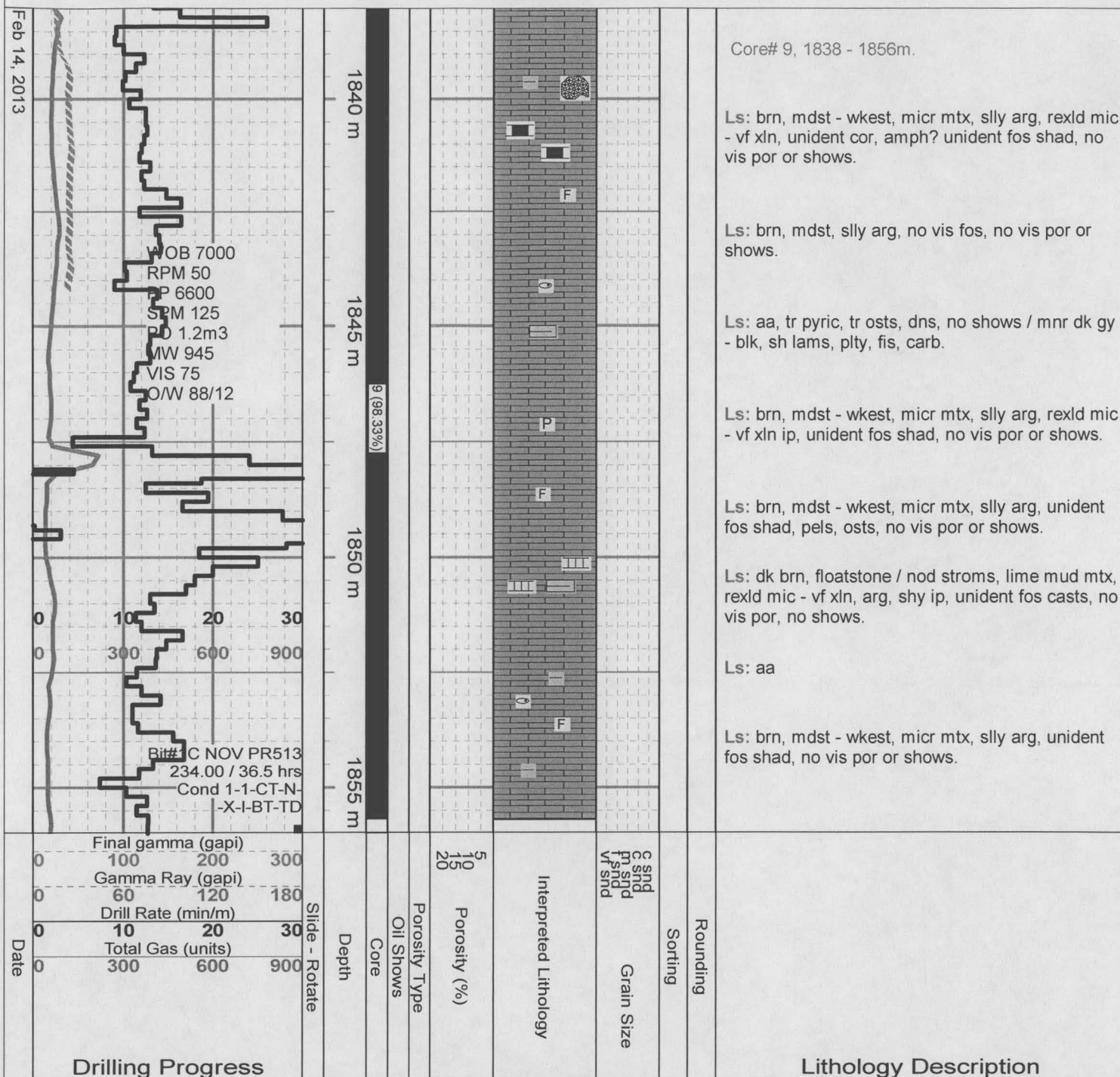


**Expanded Core Log (1:120) Feb 13, 2013**  
**Core #8 Interval: 1811.00m to 1838.00m Cut: 27m Recovered: 27m (100%)**



**Core #9 Interval: 1838.00m to 1856.00m Cut: 18m Recovered: 17.7m (98.33%)**

**Core #9 Interval: 1838.00m to 1856.00m Cut: 18m Recovered: 17.7m (98.33%)**





691606

V13

**Well Information**

**Operator:** ConocoPhillips Canada Resources Corp.  
**Well Name:** COPRC Loon Creek O-6  
**Location:** Unit O, Section 6, Grid 65-10 127-00  
**UWI:** 300O066510127000  
**Pool / Field:** Undefined / Loon Creek  
**Well License #:** 470  
**Province / State:** Northwest Territories  
**Country:** Canada

**Elevations**

|                          |               |                       |                 |
|--------------------------|---------------|-----------------------|-----------------|
| <b>Reference:</b>        | <u>Ground</u> | <b>Ground:</b>        | <u>252.4 m</u>  |
| <b>Cut(-) / Fill(+):</b> | <u></u>       | <b>Kelly Bushing:</b> | <u>257.6 m</u>  |
| <b>K.B. to Ground:</b>   | <u>5.2 m</u>  | <b>Casing Flange:</b> | <u>252.73 m</u> |

**Total Depth**

| Measurement Type           | Measured Depth | True Vertical Depth |
|----------------------------|----------------|---------------------|
| Drillers TD (Tally)        | 1856 m         | 1855.94 m           |
| Drillers TD (Strap or SLM) | m              | m                   |
| Loggers TD                 | m              | m                   |

**Well Co - Ordinates**

|                                  | Longitude           | Latitude     | Well Type: Vertical |
|----------------------------------|---------------------|--------------|---------------------|
| <b>Surface Co-Ordinates:</b>     | 127 00 30.7 W       | 65 05 51.5 N | NS:<br>EW:          |
| <b>Int. Casing Co-Ordinates:</b> |                     |              | NS:<br>EW:          |
| <b>Bottom Hole Co-Ordinates:</b> |                     |              | NS:<br>EW:          |
| <b>UTM Surface Co-Ordinates:</b> | Northing: 7220618.3 |              | Easting: 593560.14  |

**Drilling Fluid Summary**

| Fluid Type          | From  | To     |
|---------------------|-------|--------|
| Spud Mud & Gel Chem | 0 m   | 600 m  |
| Invert (Versaclean) | 600 m | 1856 m |

**Casing Summary**

| Type    | Hole Size | Casing Size | Landed At |
|---------|-----------|-------------|-----------|
| Surface | 311 mm    | 244.5 mm    | 596.78 m  |

**Well Summary**

**Spud Date:** Jan 26, 2013 @ 12:00hrs **Contractor:** Beaver Drilling Ltd.  
**TD Date:** Feb 14, 2013 @ 06:35hrs **Rig Release Date:**

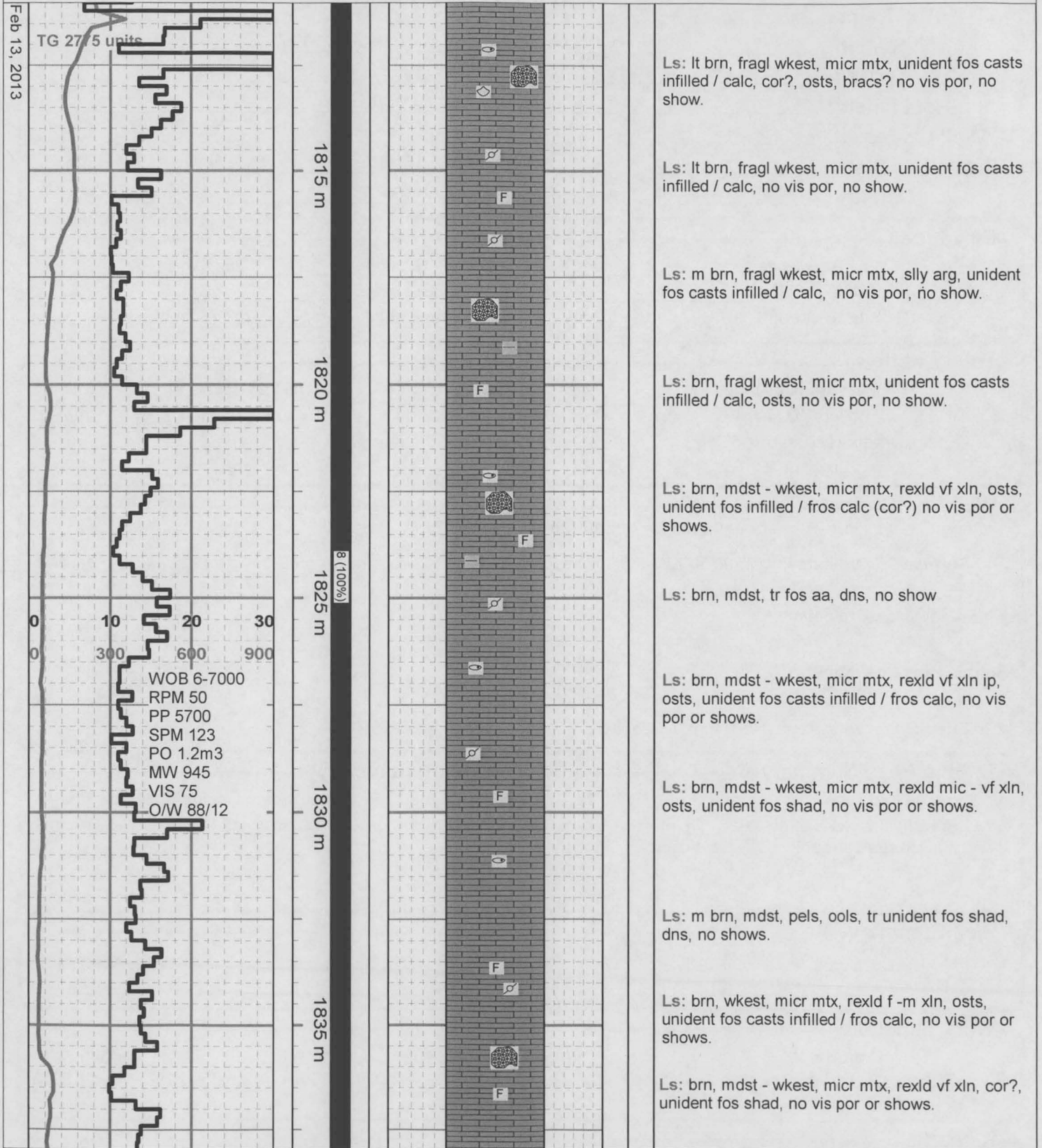
**Work Schedule**

| Contractor              | Geologist     | Log Interval | Dates Logged                |
|-------------------------|---------------|--------------|-----------------------------|
| Black Gold Geotechnical | Dave Lawrence | 0 m - 1856 m | Jan 24, 2013 - Feb 14, 2013 |

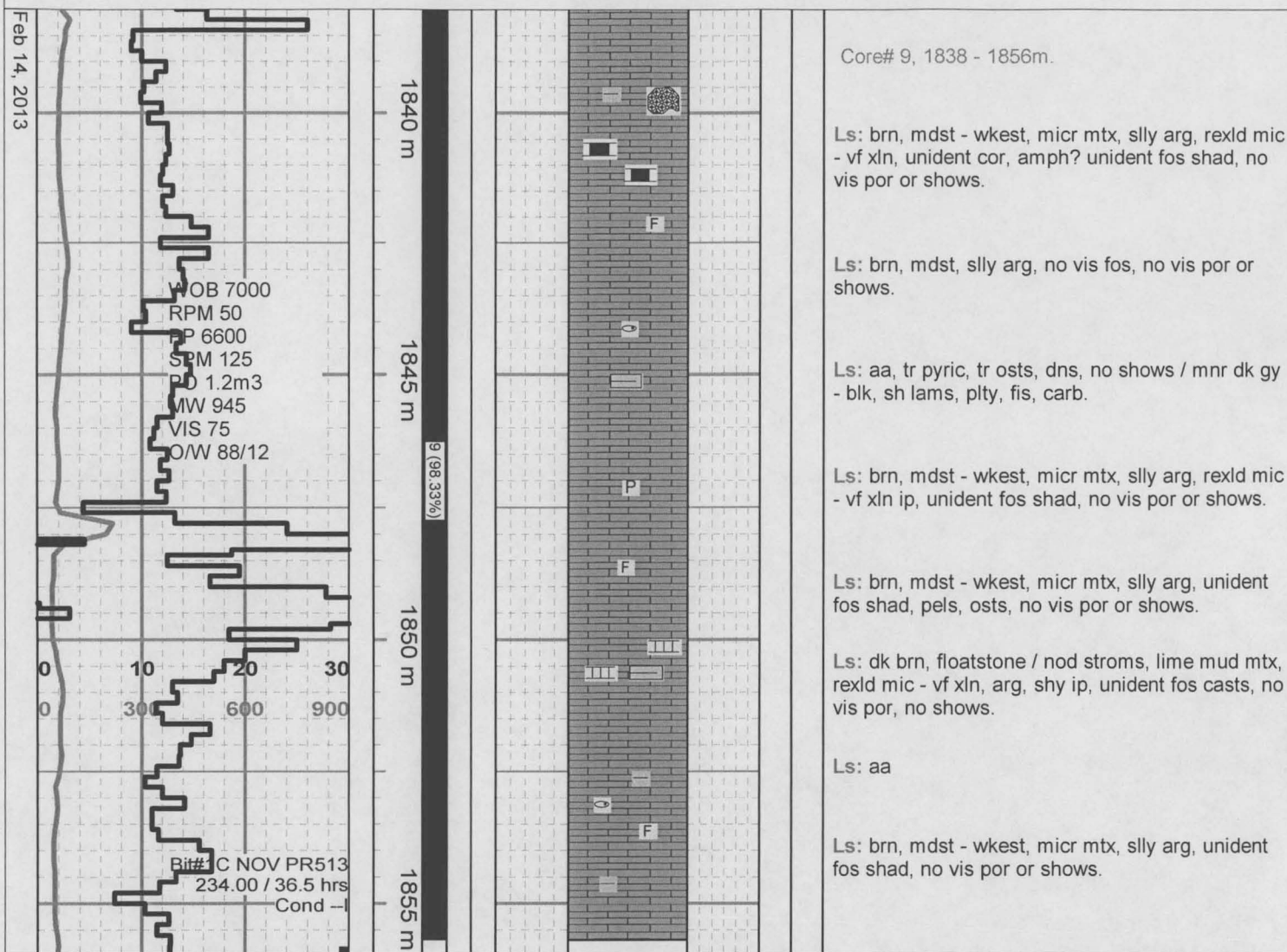
**Remarks**



**Expanded Core Log (1:120) Feb 13, 2013**  
**Core #8 Interval: 1811.00m to 1838.00m Cut: 27m Recovered: 27m (100%)**



**Expanded Core Log (1:120) Feb 14, 2013**  
**Core #9 Interval: 1838.00m to 1856.00m Cut: 18m Recovered: 17.7m (98.33%)**





DM 691606

V12

## Well Information

Operator: **ConocoPhillips Canada Resources Corp.**  
 Well Name: **COPRC Loon Creek O-6**  
 Location: **Unit O, Section 6, Grid 65-10 127-00**  
 UWI: **3000066510127000**  
 Pool / Field: **Undefined / Loon Creek**  
 Well License #: **470**  
 Province / State: **Northwest Territories**  
 Country: **Canada**

## Elevations

|                   |        |                |          |
|-------------------|--------|----------------|----------|
| Reference:        | Ground | Ground:        | 252.4 m  |
| Cut(-) / Fill(+): |        | Kelly Bushing: | 257.6 m  |
| K.B. to Ground:   | 5.2 m  | Casing Flange: | 252.73 m |

## Total Depth

| Measurement Type           | Measured Depth | True Vertical Depth |
|----------------------------|----------------|---------------------|
| Drillers TD (Tally)        | m              | m                   |
| Drillers TD (Strap or SLM) | m              | m                   |
| Loggers TD                 | m              | m                   |

## Well Co - Ordinates

|                           | Longitude           | Latitude     | Well Type: Vertical |
|---------------------------|---------------------|--------------|---------------------|
| Surface Co-Ordinates:     | 127 00 30.7 W       | 65 05 51.5 N | NS:<br>EW:          |
| Int. Casing Co-Ordinates: |                     |              | NS:<br>EW:          |
| Bottom Hole Co-Ordinates: |                     |              | NS:<br>EW:          |
| UTM Surface Co-Ordinates: | Northing: 7220618.3 |              | Easting: 593560.14  |

## Drilling Fluid Summary

| Fluid Type          | From  | To    |
|---------------------|-------|-------|
| Spud Mud & Gel Chem | 0 m   | 600 m |
| Invert (Versaclean) | 600 m | m     |

## Casing Summary

| Type    | Hole Size | Casing Size | Landed At |
|---------|-----------|-------------|-----------|
| Surface | 311 mm    | 244.5 mm    | 596.78 m  |

## Well Summary

Spud Date: **Jan 26, 2013 @ 12:00hrs** Contractor: **Beaver Drilling Ltd.**  
 TD Date: \_\_\_\_\_ Rig Release Date: \_\_\_\_\_

## Work Schedule

| Contractor              | Geologist     | Log Interval | Dates Logged   |
|-------------------------|---------------|--------------|----------------|
| Black Gold Geotechnical | Dave Lawrence | 0 m - m      | Jan 24, 2013 - |

## Remarks



**Expanded Core Log (1:120) Feb 13, 2013**  
**Core #8 Interval: 1811.00m to 1838.00m Cut: 27m Recovered: 27m (100%)**

Feb 13, 2013

TG 27.75 units

1815 m

1820 m

1825 m

1830 m

1835 m

8 (100%)

0 10 20 30  
0 300 600 900

WOB 6-7000  
RPM 50  
PP 5700  
SPM 123  
PO 1.2m3  
MW 945  
VIS 75  
O/W 88/12

Ls: lt brn, fragl wkest, micr mtx, unident fos casts infilled / calc, cor?, osts, bracs? no vis por, no show.

Ls: lt brn, fragl wkest, micr mtx, unident fos casts infilled / calc, no vis por, no show.

Ls: m brn, fragl wkest, micr mtx, slly arg, unident fos casts infilled / calc, no vis por, no show.

Ls: brn, fragl wkest, micr mtx, unident fos casts infilled / calc, osts, no vis por, no show.

Ls: brn, mdst - wkest, micr mtx, rexld vf xln, osts, unident fos infilled / fros calc (cor?) no vis por or shows.

Ls: brn, mdst, tr fos aa, dns, no show

Ls: brn, mdst - wkest, micr mtx, rexld vf xln ip, osts, unident fos casts infilled / fros calc, no vis por or shows.

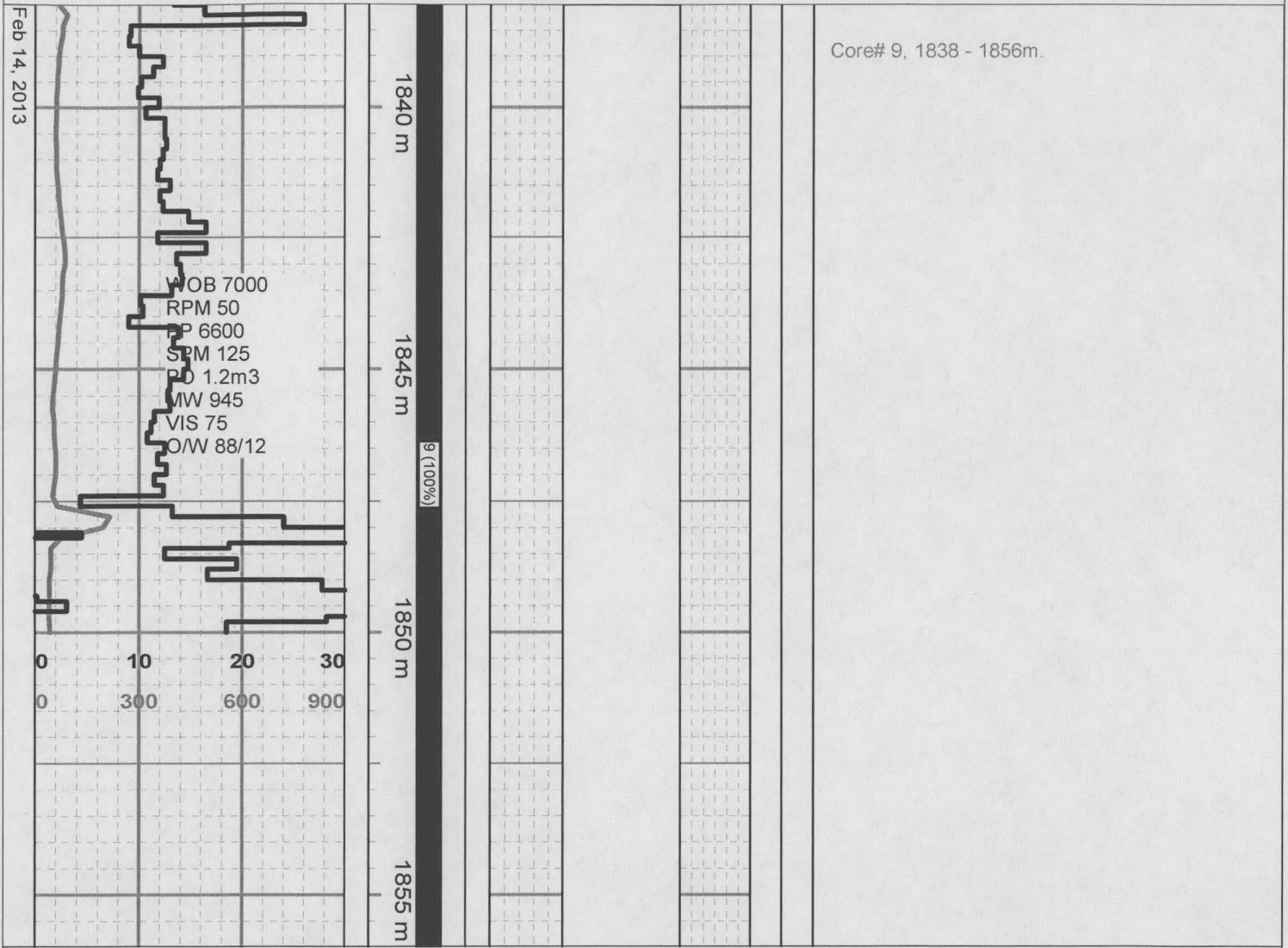
Ls: brn, mdst - wkest, micr mtx, rexld mic - vf xln, osts, unident fos shad, no vis por or shows.

Ls: m brn, mdst, pels, ools, tr unident fos shad, dns, no shows.

Ls: brn, wkest, micr mtx, rexld f -m xln, osts, unident fos casts infilled / fros calc, no vis por or shows.

Ls: brn, mdst - wkest, micr mtx, rexld vf xln, cor?, unident fos shad, no vis por or shows.

**Expanded Core Log (1:120) Feb 14, 2013**  
**Core #9 Interval: 1838.00m to 1856.00m Cut: 18m Recovered: 18m (100%)**





691606

V11

## Well Information

Operator: **ConocoPhillips Canada Resources Corp.**  
 Well Name: **COPRC Loon Creek O-6**  
 Location: **Unit O, Section 6, Grid 65-10 127-00**  
 UWI: **300O066510127000**  
 Pool / Field: **Undefined / Loon Creek**  
 Well License #: **470**  
 Province / State: **Northwest Territories**  
 Country: **Canada**

## Elevations

|                   |        |                |          |
|-------------------|--------|----------------|----------|
| Reference:        | Ground | Ground:        | 252.4 m  |
| Cut(-) / Fill(+): |        | Kelly Bushing: | 257.6 m  |
| K.B. to Ground:   | 5.2 m  | Casing Flange: | 252.73 m |

## Total Depth

| Measurement Type           | Measured Depth | True Vertical Depth |
|----------------------------|----------------|---------------------|
| Drillers TD (Tally)        | m              | m                   |
| Drillers TD (Strap or SLM) | m              | m                   |
| Loggers TD                 | m              | m                   |

## Well Co - Ordinates

|                           | Longitude           | Latitude     | Well Type: Vertical |
|---------------------------|---------------------|--------------|---------------------|
| Surface Co-Ordinates:     | 127 00 30.7 W       | 65 05 51.5 N | NS:<br>EW:          |
| Int. Casing Co-Ordinates: |                     |              | NS:<br>EW:          |
| Bottom Hole Co-Ordinates: |                     |              | NS:<br>EW:          |
| UTM Surface Co-Ordinates: | Northing: 7220618.3 |              | Easting: 593560.14  |

## Drilling Fluid Summary

| Fluid Type          | From  | To    |
|---------------------|-------|-------|
| Spud Mud & Gel Chem | 0 m   | 600 m |
| Invert (Versaclean) | 600 m | m     |

## Casing Summary

| Type    | Hole Size | Casing Size | Landed At |
|---------|-----------|-------------|-----------|
| Surface | 311 mm    | 244.5 mm    | 596.78 m  |

## Well Summary

Spud Date: **Jan 26, 2013 @ 12:00hrs** Contractor: **Beaver Drilling Ltd.**  
 TD Date: \_\_\_\_\_ Rig Release Date: \_\_\_\_\_

## Work Schedule

| Contractor              | Geologist     | Log Interval | Dates Logged   |
|-------------------------|---------------|--------------|----------------|
| Black Gold Geotechnical | Dave Lawrence | 0 m - m      | Jan 24, 2013 - |

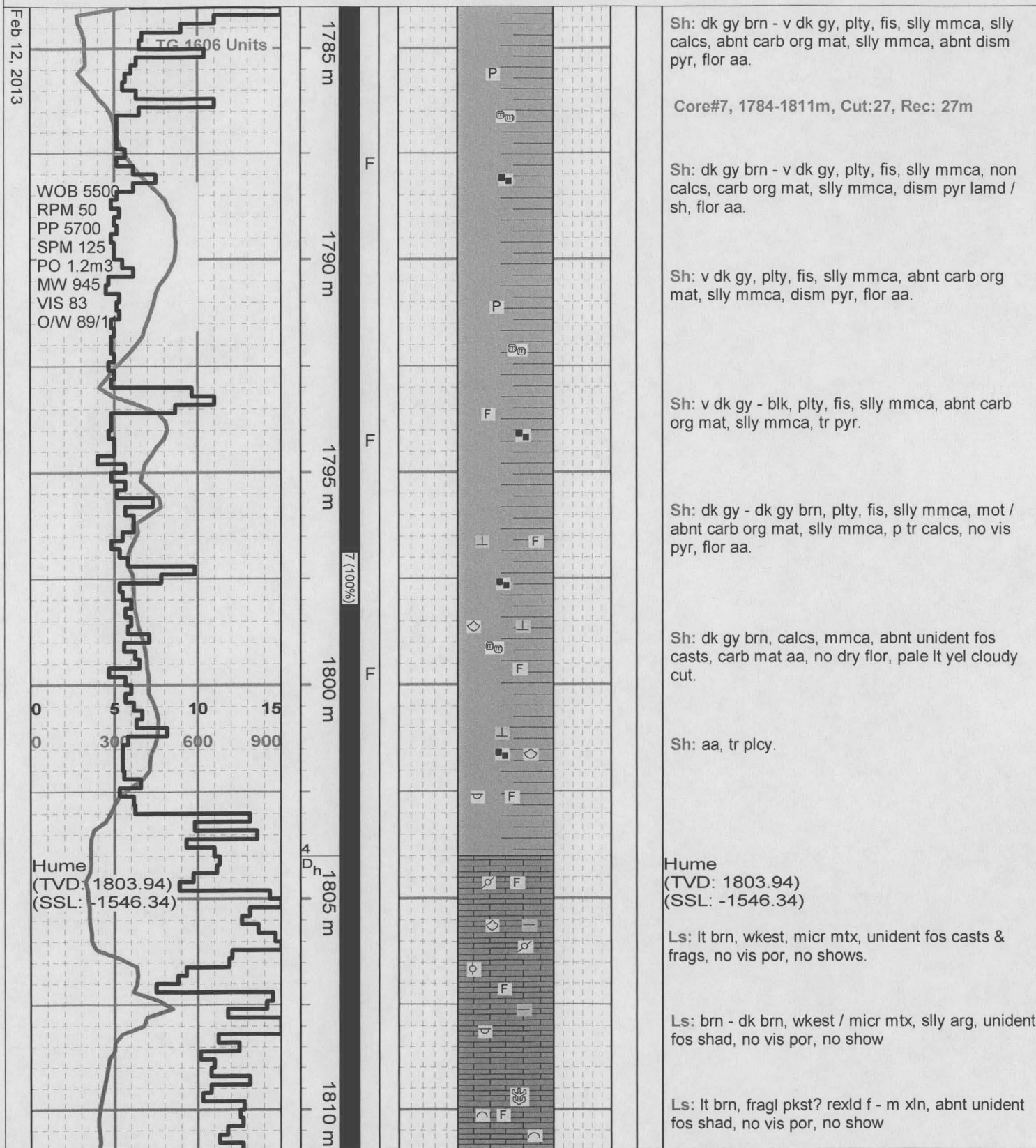
## Remarks



## Feb 11, 2013



**Expanded Core Log (1:120) Feb 12, 2013**  
**Core #7 Interval: 1784.00m to 1811.00m Cut: 27m Recovered: 27m (100%)**





691606 v10

## Well Information

Operator: **ConocoPhillips Canada Resources Corp.**  
 Well Name: **COPRC Loon Creek O-6**  
 Location: **Unit O, Section 6, Grid 65-10 127-00**  
 UWI: **300O066510127000**  
 Pool / Field: **Undefined / Loon Creek**  
 Well License #: **470**  
 Province / State: **Northwest Territories**  
 Country: **Canada**

## Elevations

|                   |        |                |          |
|-------------------|--------|----------------|----------|
| Reference:        | Ground | Ground:        | 252.4 m  |
| Cut(-) / Fill(+): |        | Kelly Bushing: | 257.6 m  |
| K.B. to Ground:   | 5.2 m  | Casing Flange: | 252.73 m |

## Total Depth

| Measurement Type           | Measured Depth | True Vertical Depth |
|----------------------------|----------------|---------------------|
| Drillers TD (Tally)        | m              | m                   |
| Drillers TD (Strap or SLM) | m              | m                   |
| Loggers TD                 | m              | m                   |

## Well Co - Ordinates

|                           | Longitude           | Latitude     | Well Type: Vertical |
|---------------------------|---------------------|--------------|---------------------|
| Surface Co-Ordinates:     | 127 00 30.7 W       | 65 05 51.5 N | NS:<br>EW:          |
| Int. Casing Co-Ordinates: |                     |              | NS:<br>EW:          |
| Bottom Hole Co-Ordinates: |                     |              | NS:<br>EW:          |
| UTM Surface Co-Ordinates: | Northing: 7220618.3 |              | Easting: 593560.14  |

## Drilling Fluid Summary

| Fluid Type          | From  | To    |
|---------------------|-------|-------|
| Spud Mud & Gel Chem | 0 m   | 600 m |
| Invert (Versaclean) | 600 m | m     |

## Casing Summary

| Type    | Hole Size | Casing Size | Landed At |
|---------|-----------|-------------|-----------|
| Surface | 311 mm    | 244.5 mm    | 596.78 m  |

## Well Summary

Spud Date: **Jan 26, 2013 @ 12:00hrs** Contractor: **Beaver Drilling Ltd.**  
 TD Date: \_\_\_\_\_ Rig Release Date: \_\_\_\_\_

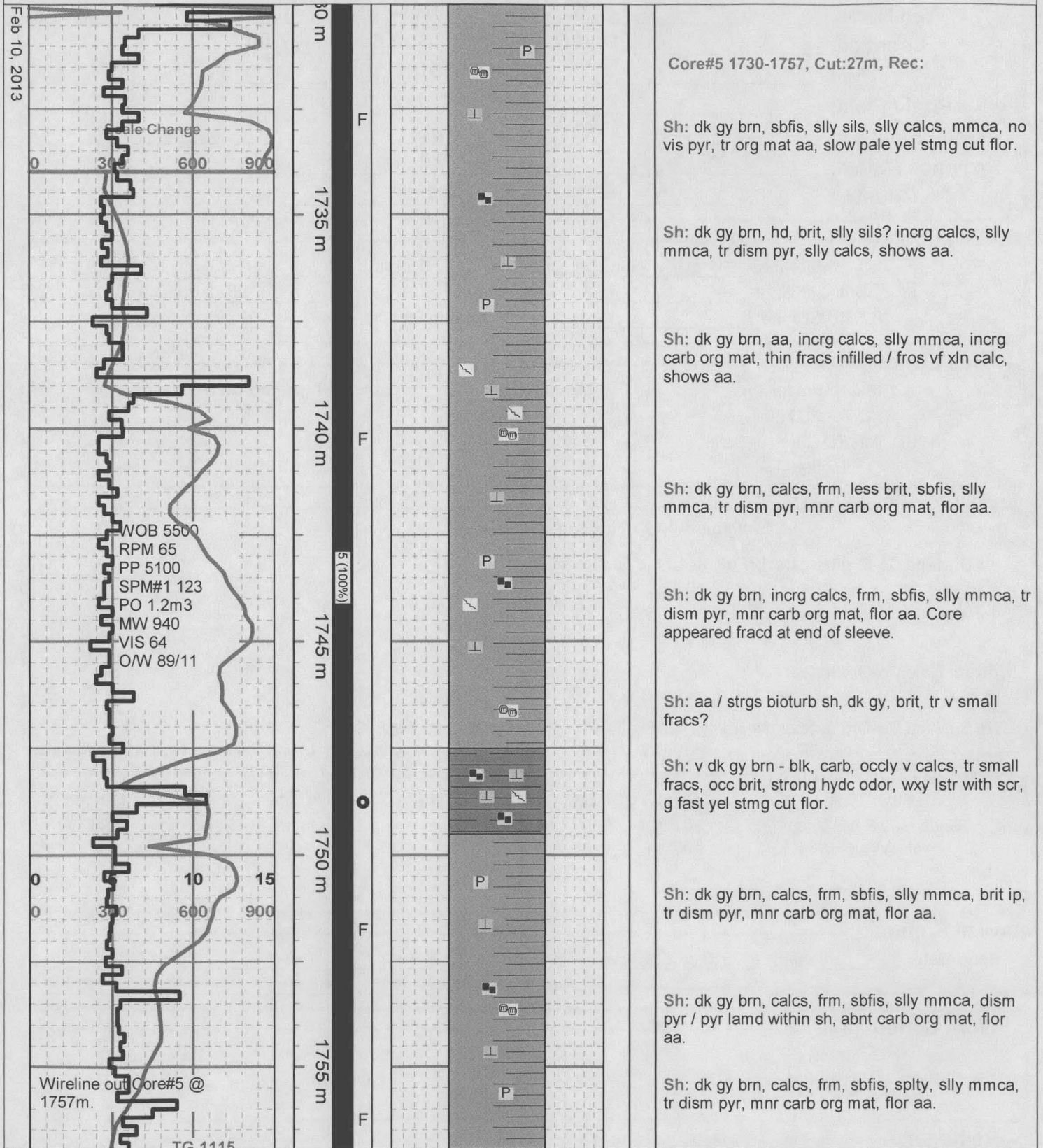
## Work Schedule

| Contractor              | Geologist     | Log Interval | Dates Logged   |
|-------------------------|---------------|--------------|----------------|
| Black Gold Geotechnical | Dave Lawrence | 0 m - m      | Jan 24, 2013 - |

## Remarks

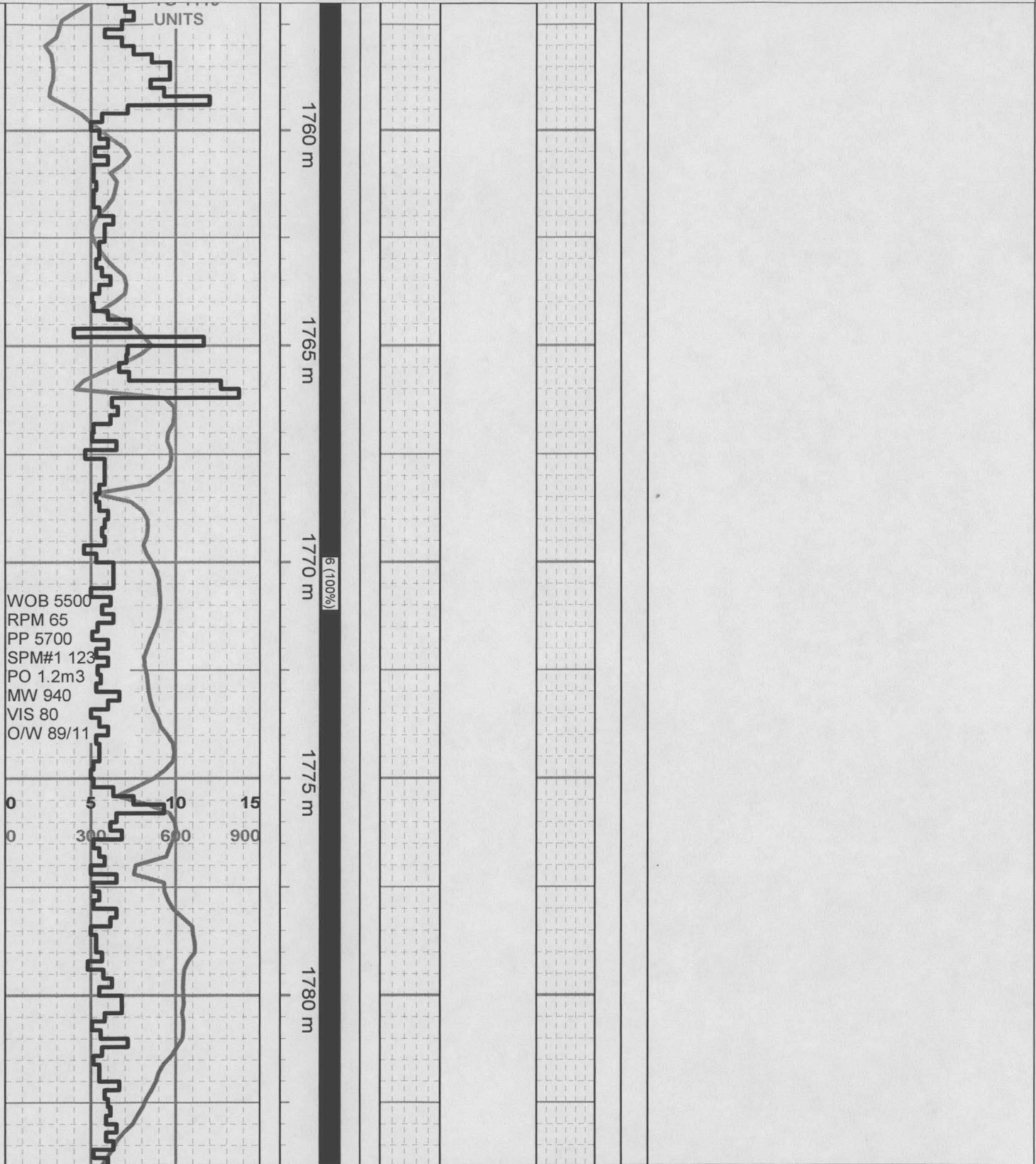


**Expanded Core Log (1:120) Feb 10, 2013**  
**Core #5 Interval: 1730.00m to 1757.00m Cut: 27m Recovered: 27m (100%)**



Expanded Core Log (1:120) Feb 11, 2013  
 Core #6 Interval: 1757.00m to 1784.00m Cut: 27m Recovered: 27m (100%)

Feb 11, 2013





**Well Information**

**Operator:** ConocoPhillips Canada Resources Corp.  
**Well Name:** COPRC Loon Creek O-6  
**Location:** Unit O, Section 6, Grid 65-10 127-00  
**UWI:** 300O066510127000  
**Pool / Field:** Undefined / Loon Creek  
**Well License #:** 470  
**Province / State:** Northwest Territories  
**Country:** Canada

**Elevations**

|                          |               |                       |                 |
|--------------------------|---------------|-----------------------|-----------------|
| <b>Reference:</b>        | <u>Ground</u> | <b>Ground:</b>        | <u>252.4 m</u>  |
| <b>Cut(-) / Fill(+):</b> | <u></u>       | <b>Kelly Bushing:</b> | <u>257.6 m</u>  |
| <b>K.B. to Ground:</b>   | <u>5.2 m</u>  | <b>Casing Flange:</b> | <u>252.73 m</u> |

**Total Depth**

| Measurement Type           | Measured Depth | True Vertical Depth |
|----------------------------|----------------|---------------------|
| Drillers TD (Tally)        | m              | m                   |
| Drillers TD (Strap or SLM) | m              | m                   |
| Loggers TD                 | m              | m                   |

**Well Co - Ordinates**

|                                  | Longitude           | Latitude     | Well Type: Vertical |
|----------------------------------|---------------------|--------------|---------------------|
| <b>Surface Co-Ordinates:</b>     | 127 00 30.7 W       | 65 05 51.5 N | NS:<br>EW:          |
| <b>Int. Casing Co-Ordinates:</b> |                     |              | NS:<br>EW:          |
| <b>Bottom Hole Co-Ordinates:</b> |                     |              | NS:<br>EW:          |
| <b>UTM Surface Co-Ordinates:</b> | Northing: 7220618.3 |              | Easting: 593560.14  |

**Drilling Fluid Summary**

| Fluid Type          | From  | To    |
|---------------------|-------|-------|
| Spud Mud & Gel Chem | 0 m   | 600 m |
| Invert (Versaclean) | 600 m | m     |

**Casing Summary**

| Type    | Hole Size | Casing Size | Landed At |
|---------|-----------|-------------|-----------|
| Surface | 311 mm    | 244.5 mm    | 596.78 m  |

**Well Summary**

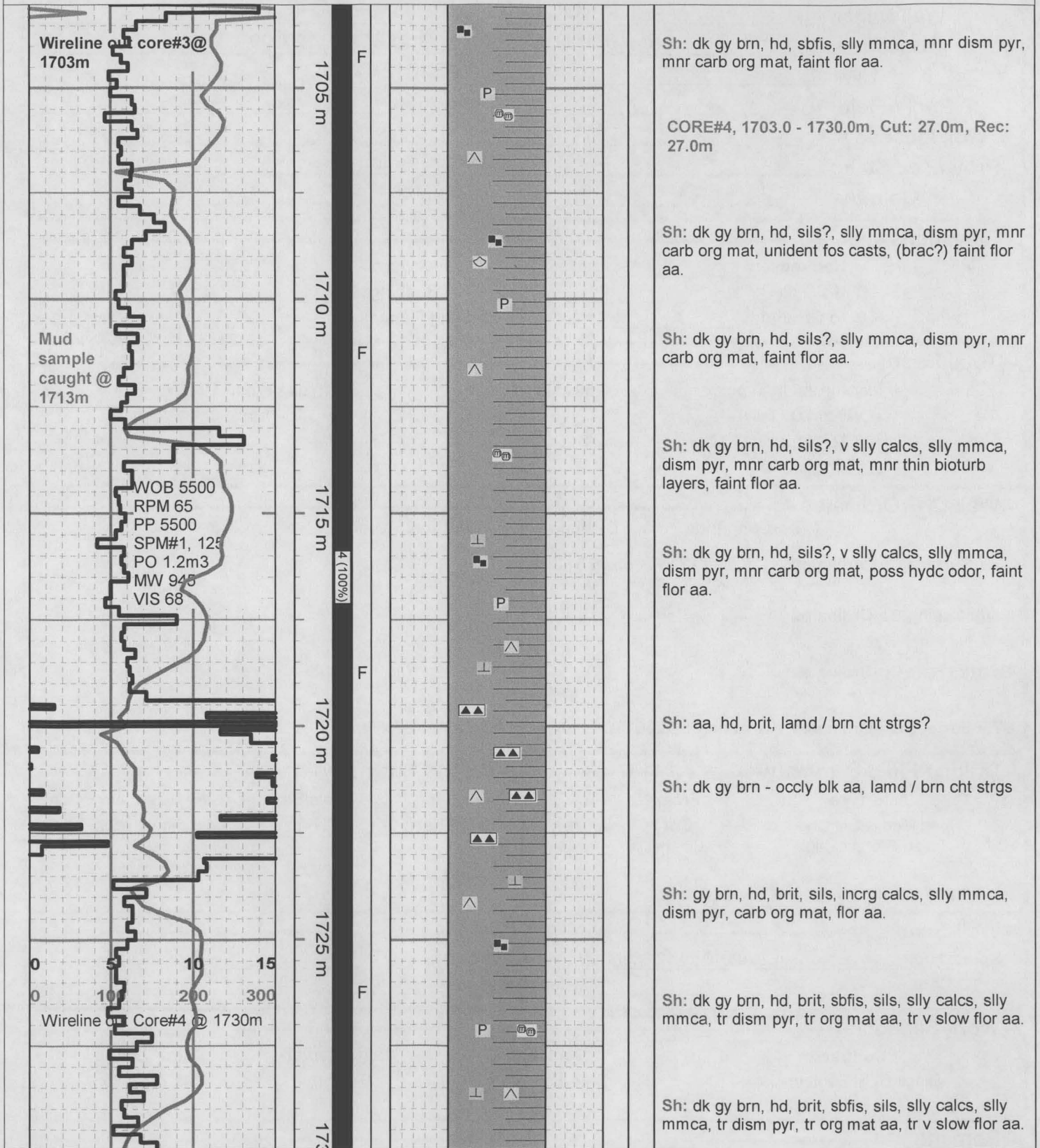
**Spud Date:** Jan 26, 2013 @ 12:00hrs **Contractor:** Beaver Drilling Ltd.  
**TD Date:**  **Rig Release Date:**

**Work Schedule**

| Contractor              | Geologist     | Log Interval | Dates Logged   |
|-------------------------|---------------|--------------|----------------|
| Black Gold Geotechnical | Dave Lawrence | 0 m - m      | Jan 24, 2013 - |

**Remarks**

**Expanded Core Log (1:120) Feb 9, 2013**  
**Core #4 Interval: 1703.00m to 1730.00m Cut: 27m Recovered: 27m (100%)**

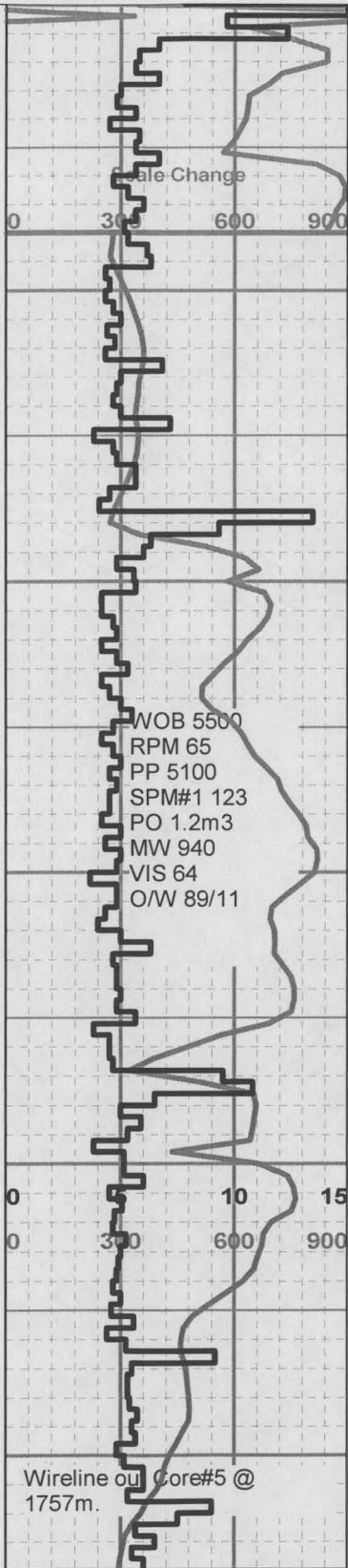




Expanded Core Log (1:120) Feb 10, 2013  
 Core #5 Interval: 1730.00m to 1757.00m Cut: 27m Recovered: 27m (100%)

Feb 10, 2013

Core#5 1730-1757, Cut:27m, Rec:



1730 m 1735 m 1740 m 1745 m 1750 m 1755 m

5 (100%)

Wireline out Core#5 @  
 1757m.

691606 ug

## Well Information

Operator: **ConocoPhillips Canada Resources Corp.**  
 Well Name: **COPRC Loon Creek O-6**  
 Location: **Unit O, Section 6, Grid 65-10 127-00**  
 UWI: **300O066510127000**  
 Pool / Field: **Undefined / Loon Creek**  
 Well License #: **470**  
 Province / State: **Northwest Territories**  
 Country: **Canada**

## Elevations

|                   |        |                |          |
|-------------------|--------|----------------|----------|
| Reference:        | Ground | Ground:        | 252.4 m  |
| Cut(-) / Fill(+): |        | Kelly Bushing: | 257.6 m  |
| K.B. to Ground:   | 5.2 m  | Casing Flange: | 252.73 m |

## Total Depth

| Measurement Type           | Measured Depth | True Vertical Depth |
|----------------------------|----------------|---------------------|
| Drillers TD (Tally)        | m              | m                   |
| Drillers TD (Strap or SLM) | m              | m                   |
| Loggers TD                 | m              | m                   |

## Well Co - Ordinates

|                           | Longitude           | Latitude     | Well Type: Vertical |
|---------------------------|---------------------|--------------|---------------------|
| Surface Co-Ordinates:     | 127 00 30.7 W       | 65 05 51.5 N | NS:<br>EW:          |
| Int. Casing Co-Ordinates: |                     |              | NS:<br>EW:          |
| Bottom Hole Co-Ordinates: |                     |              | NS:<br>EW:          |
| UTM Surface Co-Ordinates: | Northing: 7220618.3 |              | Easting: 593560.14  |

## Drilling Fluid Summary

| Fluid Type          | From  | To    |
|---------------------|-------|-------|
| Spud Mud & Gel Chem | 0 m   | 600 m |
| Invert (Versaclean) | 600 m | m     |

## Casing Summary

| Type    | Hole Size | Casing Size | Landed At |
|---------|-----------|-------------|-----------|
| Surface | 311 mm    | 244.5 mm    | 596.78 m  |

## Well Summary

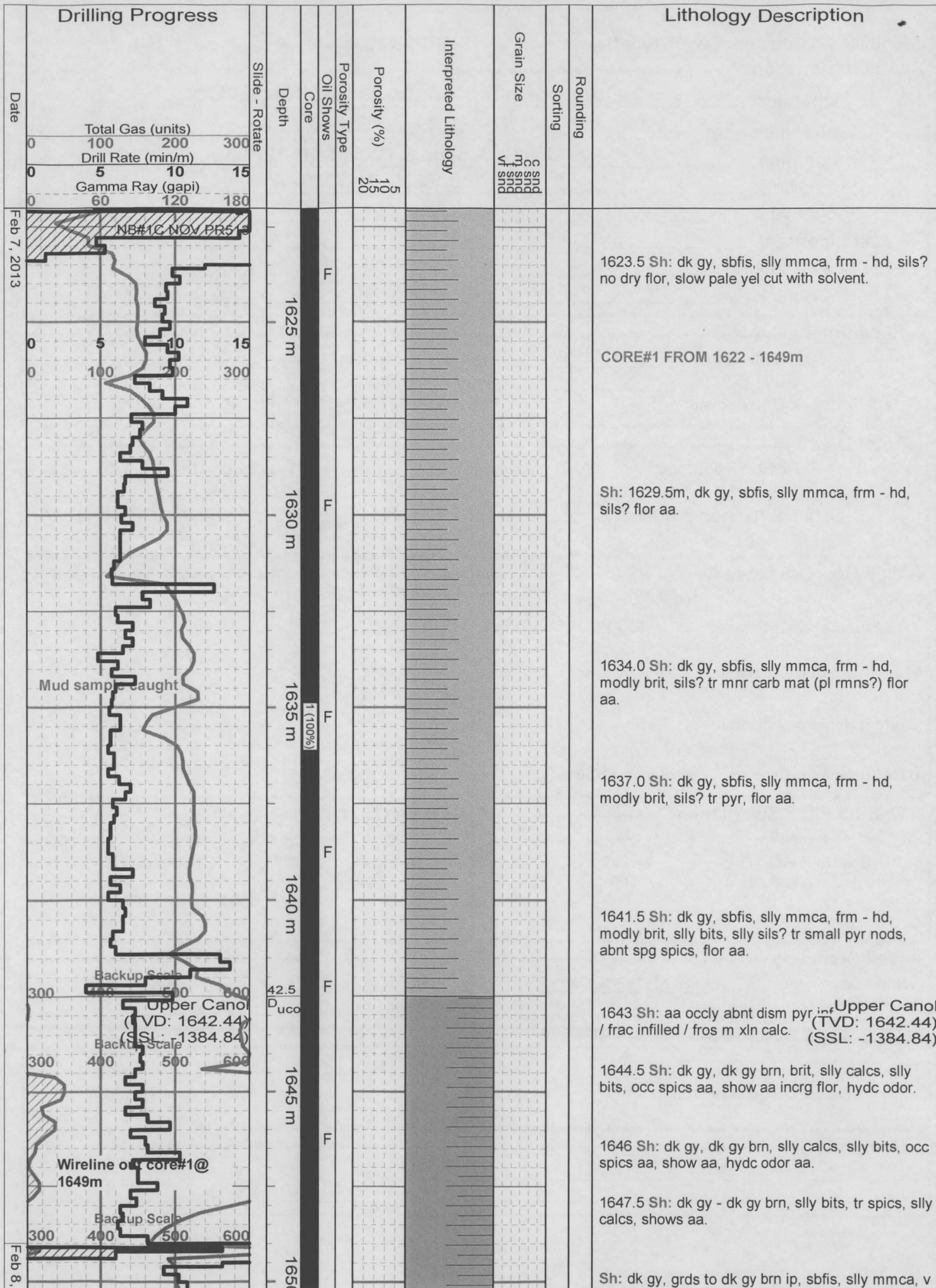
Spud Date: Jan 26, 2013 @ 12:00hrs Contractor: Beaver Drilling Ltd.  
 TD Date:  Rig Release Date:

## Work Schedule

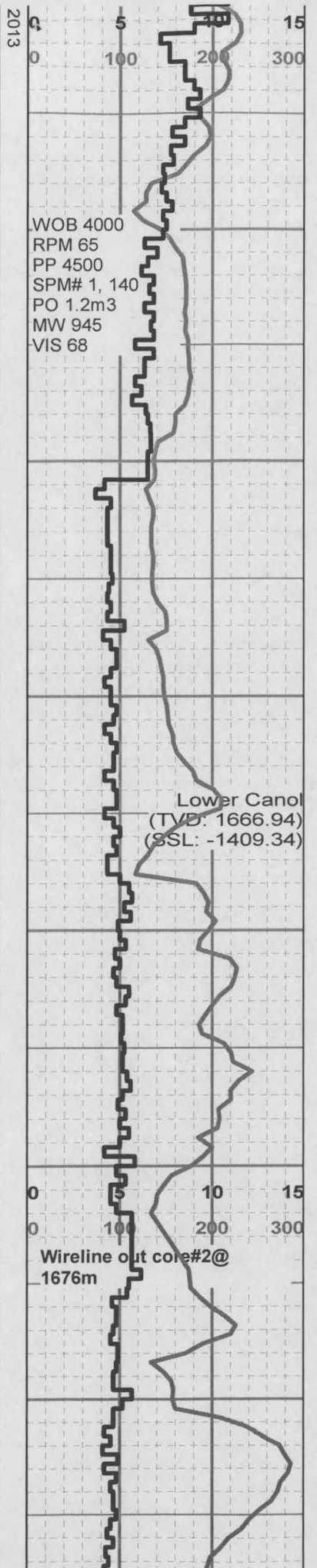
| Contractor              | Geologist     | Log Interval | Dates Logged   |
|-------------------------|---------------|--------------|----------------|
| Black Gold Geotechnical | Dave Lawrence | 0 m - m      | Jan 24, 2013 - |

## Remarks





2013



m

1655 m

1660 m

1665 m

67  
Dico

1670 m

1675 m

1680 m

F

F

F

F

F

F

sly calcs, p tr pyr, tr mnr carb mat, no dry flor,  
pale slow yel cut.

Sh: dk gy, grds to dk gy brn ip, sbfis, sly mmca, v  
sly calcs, p tr pyr, incrg org carb mat, no dry flor,  
pale slow yel cut.

Sh: m gy brn, sbfis, sly mmca, sly bits, mnr carb  
mat, no dry flor, v faint pale slow yel cut.

Sh: m - dk gy, gy brn, sbfis, sly mmca, mnr org  
carb mat, freq dism pyr, no dry flor, v faint pale  
slow yel cut.

Sh: gy brn, sbfis, sly mmca, sly bits, mnr org  
carb mat, no dry flor, v faint pale slow yel cut.

#### CORE#2 FROM 1649 - 1676m

Sh: gy brn, sbfis, sly mmca, sly bits, mnr org  
carb mat, tr sly slty, tr dism pyr, no dry flor, v faint  
pale slow yel cut.

Sh: gy brn, sbfis, sly mmca, sly bits, mnr org  
carb mat, tr sly slty, no dry flor, v faint pale slow  
yel cut.

Lower Canol  
(TVD: 1666.94)  
(SSL: -1409.34)

Sh: gy brn, sbfis, sly mmca, sly bits, mnr org  
carb mat, tr sly slty, tr dism pyr, no dry flor, v faint  
pale slow yel cut.

Sh: gy brn, sbfis, sly mmca, sly bits, mnr org  
carb mat, tr sly slty, tr dism pyr, no dry flor, v faint  
pale slow yel cut.

Sh: gy brn, sbfis, sly mmca, sly bits, mnr org  
carb mat, tr sly slty, no dry flor, v faint pale slow  
yel cut.

Sh: gy brn, fis, sly mmca, frm - hd, bcmg sils?  
sly bits, mnr org carb mat, tr sly slty, no dry flor,  
v faint pale slow yel cut.

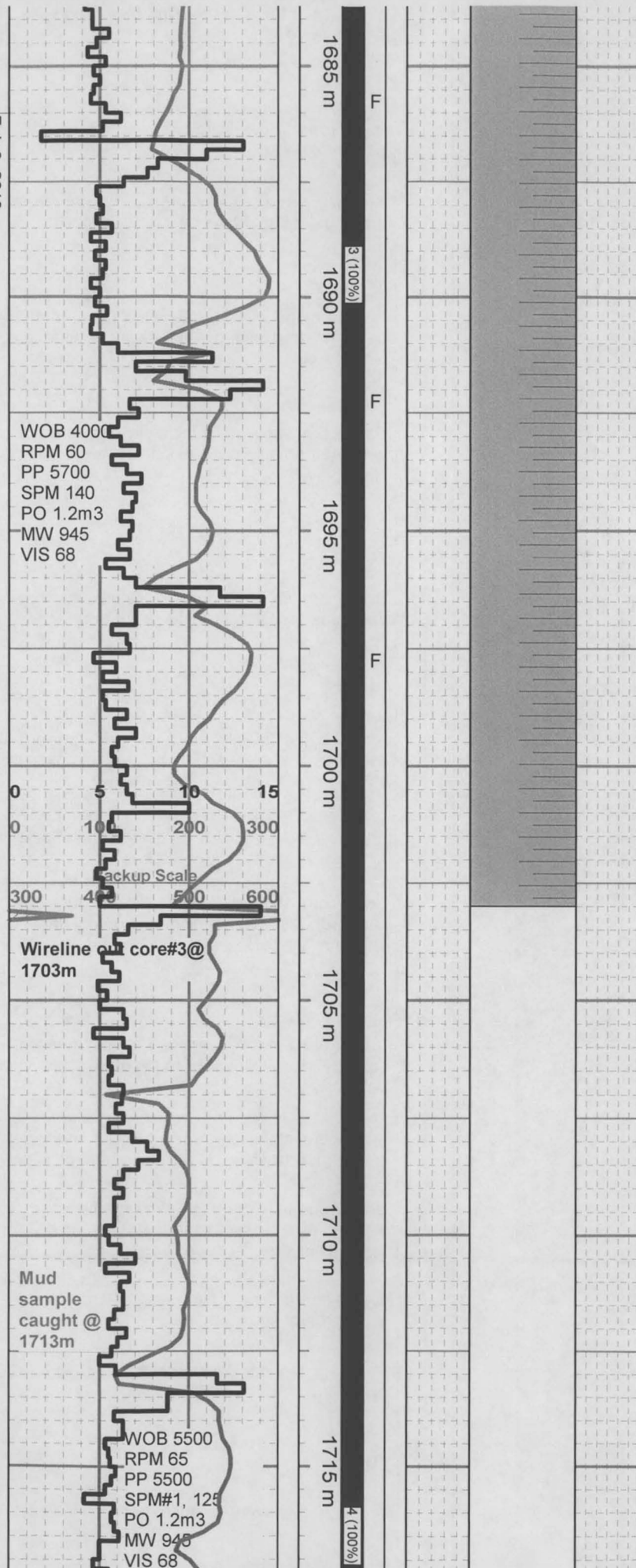
#### CORE#3 FROM 1676.0 - 1703.0m, CUT:27.0M, REC: 27.0m

Sh: dk gy brn, fis, sly mmca, frm - hd, bcmg sils?  
bcmg brit, carb org mat, faint shows aa.

Sh: aa, incrg dism pyr, micro fracs infilled / pyr.



Feb 9, 2013



Sh: gy brn, fis, sily mmca, frm - hd, sily sils? occlly brit, sh lamd / pyr, tr lamd / sdy sh ip, faint shows aa.

Sh: aa, abnt dism pyr, abnt unident fos (pl rmn) casts lined / carb mat, tr spics?

Sh: gy brn, fis, sily mmca, frm - hd, sils? brit, carb org mat, tr pyr aa, faint shows aa.

Sh: dk gy brn - blk, sils, brit, hd, tr unident fos casts? mnr pyr aa, faint show aa.

Sh: dk gy brn, aa, sils? , tr occlly specd / lt & dk rdd cht, shows aa.

Sh: dk gy brn, sils, hd, brit, sily mmca, dism pyr, tr micro frags, v faint slow pale yel cut.

Sh: dk gy - dk gy brn, fis, splty, mmca incrg sily, sils? dism pyr, abnt carb org mat, no dry flor, slow pale yel stmg cut.

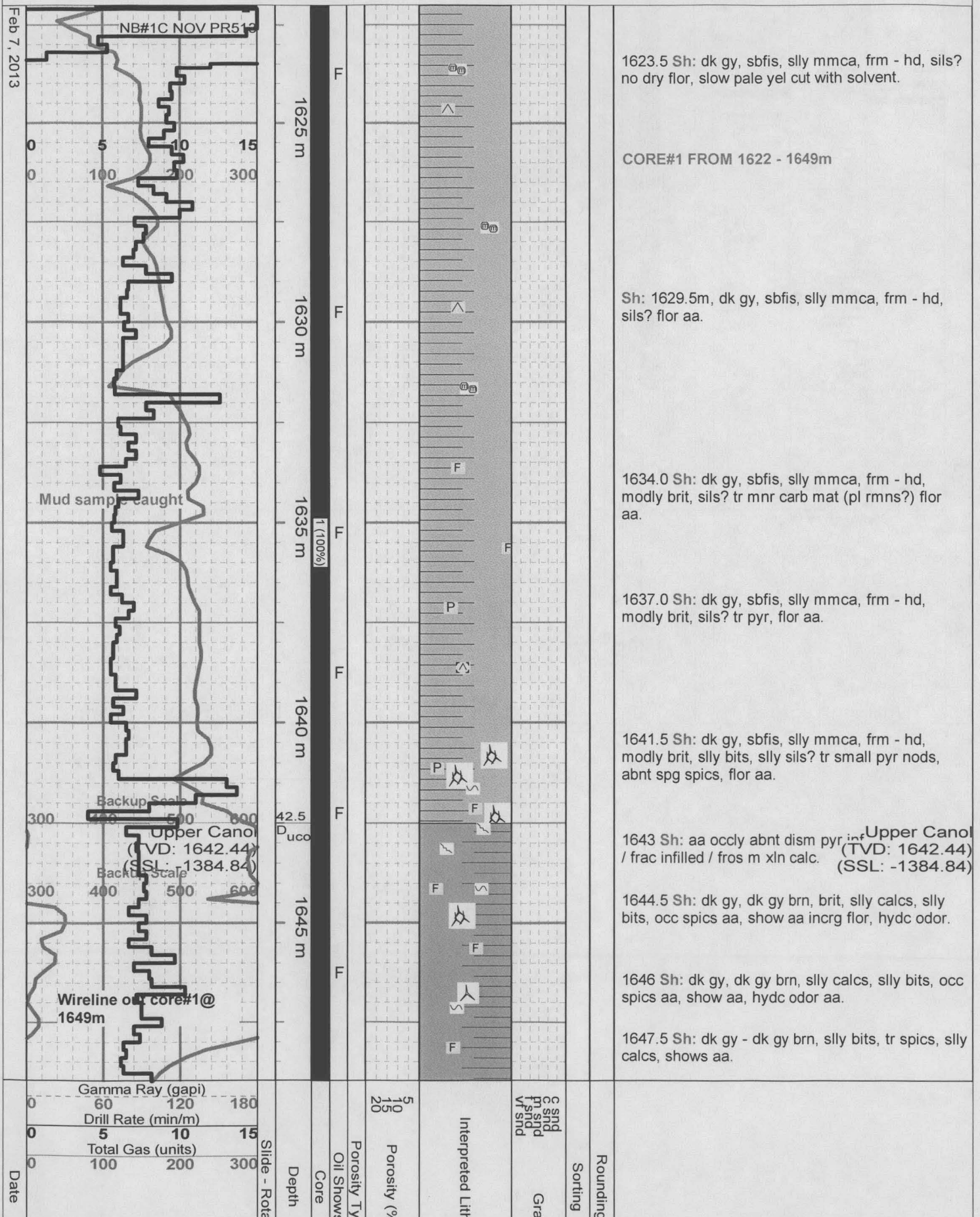
Sh: aa, abnt dism pyr.

CORE#4, 1703.0 - 1730.0m, Cut: 27.0m

|  |  |  |  |  |  |  |  |  |  |                       |
|--|--|--|--|--|--|--|--|--|--|-----------------------|
|  |  |  |  |  |  |  |  |  |  | Lithology Description |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |
|  |  |  |  |  |  |  |  |  |  |                       |



**Expanded Core Log (1:120) Feb 7, 2013**  
**Core #1 Interval: 1622.00m to 1649.00m Cut: 27m Recovered: 27m (100%)**



691606 v7

## Well Information

Operator: **ConocoPhillips Canada Resources Corp.**  
 Well Name: **COPRC Loon Creek O-6**  
 Location: **Unit O, Section 6, Grid 65-10 127-00**  
 UWI: **300O066510127000**  
 Pool / Field: **Undefined / Loon Creek**  
 Well License #: **470**  
 Province / State: **Northwest Territories**  
 Country: **Canada**

## Elevations

|                   |        |                |          |
|-------------------|--------|----------------|----------|
| Reference:        | Ground | Ground:        | 252.4 m  |
| Cut(-) / Fill(+): |        | Kelly Bushing: | 257.6 m  |
| K.B. to Ground:   | 5.2 m  | Casing Flange: | 252.73 m |

## Total Depth

| Measurement Type           | Measured Depth | True Vertical Depth |
|----------------------------|----------------|---------------------|
| Drillers TD (Tally)        | m              | m                   |
| Drillers TD (Strap or SLM) | m              | m                   |
| Loggers TD                 | m              | m                   |

## Well Co - Ordinates

|                           | Longitude           | Latitude     | Well Type: Vertical |
|---------------------------|---------------------|--------------|---------------------|
| Surface Co-Ordinates:     | 127 00 30.7 W       | 65 05 51.5 N | NS:<br>EW:          |
| Int. Casing Co-Ordinates: |                     |              | NS:<br>EW:          |
| Bottom Hole Co-Ordinates: |                     |              | NS:<br>EW:          |
| UTM Surface Co-Ordinates: | Northing: 7220618.3 |              | Easting: 593560.14  |

## Drilling Fluid Summary

| Fluid Type          | From  | To    |
|---------------------|-------|-------|
| Spud Mud & Gel Chem | 0 m   | 600 m |
| Invert (Versaclean) | 600 m | m     |

## Casing Summary

| Type    | Hole Size | Casing Size | Landed At |
|---------|-----------|-------------|-----------|
| Surface | 311 mm    | 244.5 mm    | 596.78 m  |

## Well Summary

Spud Date: **Jan 26, 2013 @ 12:00hrs** Contractor: **Beaver Drilling Ltd.**  
 TD Date: \_\_\_\_\_ Rig Release Date: \_\_\_\_\_

## Work Schedule

| Contractor              | Geologist     | Log Interval | Dates Logged   |
|-------------------------|---------------|--------------|----------------|
| Black Gold Geotechnical | Dave Lawrence | 0 m - m      | Jan 24, 2013 - |

## Remarks

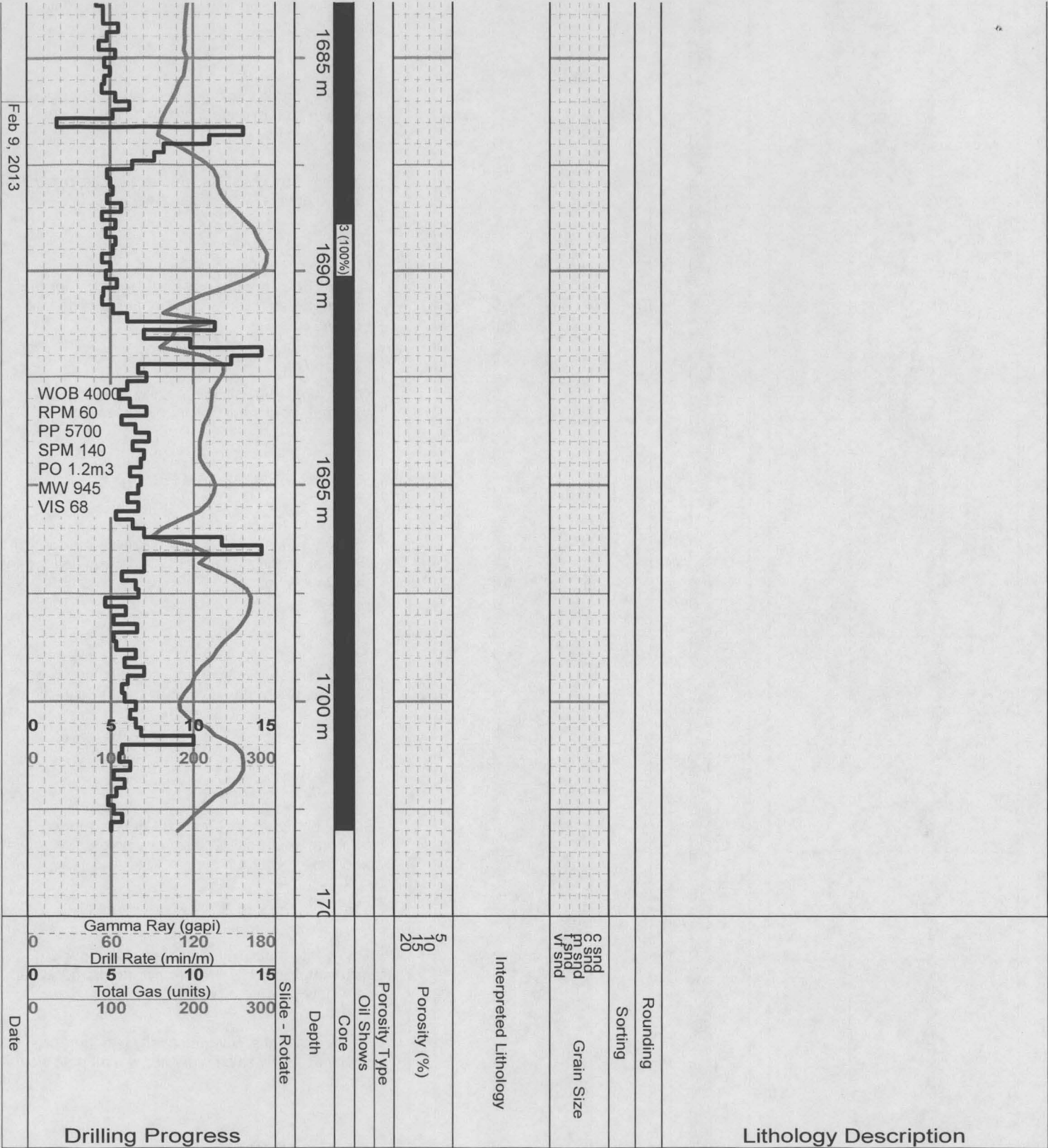
\_\_\_\_\_



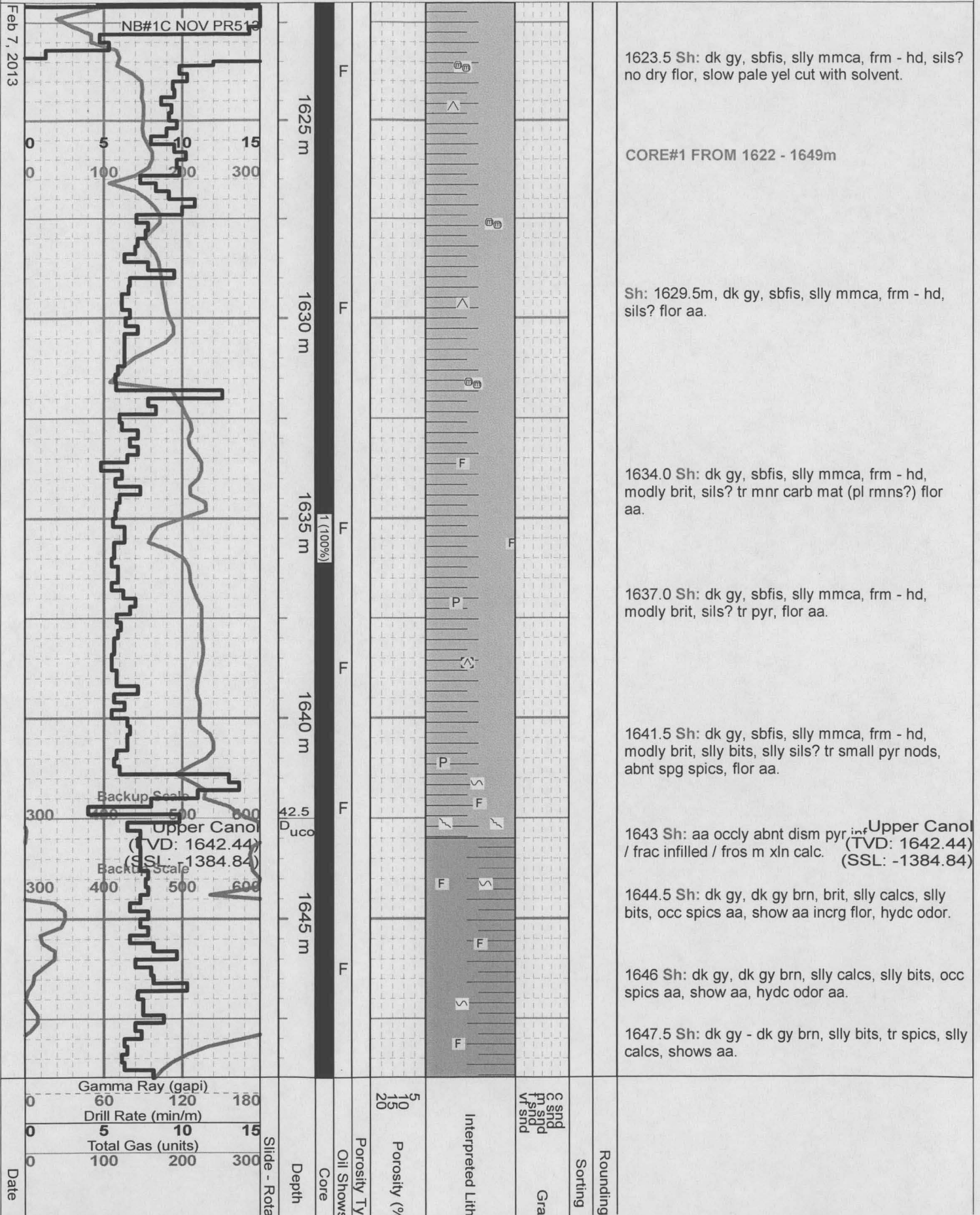
| Drilling Progress |                |          |      | Lithology Description |              |                       |            |
|-------------------|----------------|----------|------|-----------------------|--------------|-----------------------|------------|
| Date              | Slide - Rotate | Depth    | Core | Porosity Type         | Porosity (%) | Interpreted Lithology | Grain Size |
|                   |                |          |      |                       |              |                       |            |
| Feb 7, 2013       |                | 1623.5 m |      |                       |              |                       |            |
|                   |                | 1625 m   |      |                       |              |                       |            |
|                   |                | 1630 m   |      |                       |              |                       |            |
|                   |                | 1635 m   |      |                       |              |                       |            |
|                   |                | 1640 m   |      |                       |              |                       |            |
|                   |                | 1645 m   |      |                       |              |                       |            |
| Feb 8, 2013       |                | 1650 m   |      |                       |              |                       |            |







**Expanded Core Log (1:120) Feb 7, 2013**  
**Core #1 Interval: 1622.00m to 1649.00m Cut: 27m Recovered: 27m (100%)**





691606 v6

### Well Information

Operator: **ConocoPhillips Canada Resources Corp.**  
 Well Name: **COPRC Loon Creek O-6**  
 Location: **Unit O, Section 6, Grid 65-10 127-00**  
 UWI: **300O066510127000**  
 Pool / Field: **Undefined / Loon Creek**  
 Well License #: **470**  
 Province / State: **Northwest Territories**  
 Country: **Canada**

### Elevations

|                   |        |                |          |
|-------------------|--------|----------------|----------|
| Reference:        | Ground | Ground:        | 252.4 m  |
| Cut(-) / Fill(+): |        | Kelly Bushing: | 257.6 m  |
| K.B. to Ground:   | 5.2 m  | Casing Flange: | 252.73 m |

### Total Depth

| Measurement Type           | Measured Depth | True Vertical Depth |
|----------------------------|----------------|---------------------|
| Drillers TD (Tally)        | m              | m                   |
| Drillers TD (Strap or SLM) | m              | m                   |
| Loggers TD                 | m              | m                   |

### Well Co - Ordinates

|                           | Longitude           | Latitude     | Well Type: Vertical |
|---------------------------|---------------------|--------------|---------------------|
| Surface Co-Ordinates:     | 127 00 30.7 W       | 65 05 51.5 N | NS:<br>EW:          |
| Int. Casing Co-Ordinates: |                     |              | NS:<br>EW:          |
| Bottom Hole Co-Ordinates: |                     |              | NS:<br>EW:          |
| UTM Surface Co-Ordinates: | Northing: 7220618.3 |              | Easting: 593560.14  |

### Drilling Fluid Summary

| Fluid Type          | From  | To    |
|---------------------|-------|-------|
| Spud Mud & Gel Chem | 0 m   | 600 m |
| Invert (Versaclean) | 600 m | m     |

### Casing Summary

| Type    | Hole Size | Casing Size | Landed At |
|---------|-----------|-------------|-----------|
| Surface | 311 mm    | 244.5 mm    | 596.78 m  |

### Well Summary

Spud Date: **Jan 26, 2013 @ 12:00hrs** Contractor: **Beaver Drilling Ltd.**  
 TD Date: \_\_\_\_\_ Rig Release Date: \_\_\_\_\_

### Work Schedule

| Contractor              | Geologist     | Log Interval | Dates Logged   |
|-------------------------|---------------|--------------|----------------|
| Black Gold Geotechnical | Dave Lawrence | 0 m - m      | Jan 24, 2013 - |

### Remarks

\_\_\_\_\_  
 \_\_\_\_\_

Core #1 Interval: 1622.00m to 1649.00m Cut: 27m Recovered: 27m (100%)

| Drilling Progress |                   |                    |                  | Lithology Description |      |                            |              |                       |                                                                  |          |         |                                                                                                                                              |
|-------------------|-------------------|--------------------|------------------|-----------------------|------|----------------------------|--------------|-----------------------|------------------------------------------------------------------|----------|---------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Date              | Slide - Rotate    |                    |                  | Depth                 | Core | Porosity Type<br>Oil Shows | Porosity (%) | Interpreted Lithology | Grain Size<br>C sand<br>F fine sand<br>M med sand<br>V very sand | Rounding | Sorting | Lithology Description                                                                                                                        |
|                   | Total Gas (units) | Drill Rate (min/m) | Gamma Ray (gapi) |                       |      |                            |              |                       |                                                                  |          |         |                                                                                                                                              |
| Feb 7, 2013       | 0 100 200 300     | 0 5 10 15          | 0 60 120 180     |                       |      |                            | 0 10 20      |                       |                                                                  |          |         | 1623.5 Sh: dk gy, sbfis, sily mmca, frm - hd, sils?<br>no dry flor, slow pale yel cut with solvent.                                          |
|                   |                   |                    |                  | 1625 m                |      | F                          |              |                       |                                                                  |          |         |                                                                                                                                              |
|                   | 0 100 200 300     | 0 5 10 15          |                  | 1630 m                |      | F                          |              |                       |                                                                  |          |         | Sh: 1629.5m, dk gy, sbfis, sily mmca, frm - hd,<br>sils? flor aa.                                                                            |
|                   |                   |                    |                  | 1635 m                |      | F (100%)                   |              |                       |                                                                  |          |         | 1634.0 Sh: dk gy, sbfis, sily mmca, frm - hd,<br>modly brit, sils? tr mnr carb mat (pl rmns?) flor<br>aa.                                    |
|                   |                   |                    |                  | 1640 m                |      | F                          |              |                       |                                                                  |          |         | 1637.0 Sh: dk gy, sbfis, sily mmca, frm - hd,<br>modly brit, sils? tr pyr, flor aa.                                                          |
|                   |                   |                    |                  | 1645 m                |      | F                          |              |                       |                                                                  |          |         | 1641.5 Sh: dk gy, sbfis, sily mmca, frm - hd,<br>modly brit, sily bits, sily sils? tr small pyr nods,<br>abnt unident org (pl rms?) flor aa. |
|                   | 300 400 500 600   |                    |                  | 1642.5 m              |      | F                          |              |                       |                                                                  |          |         | 1643 Sh: aa occly abnt dism pyr, inf Upper Canol<br>/ frac infilled / fros m xln calc. (TVD: 1642.44)<br>(SSL: -1384.84)                     |
|                   |                   |                    |                  | 1645 m                |      | F                          |              |                       |                                                                  |          |         | 1644.5 Sh: dk gy, dk gy brn, brit, sily calcs, sily<br>bits, occ unident org rmns aa, show aa incrg flor,<br>hydc odor.                      |
|                   |                   |                    |                  |                       |      | F                          |              |                       |                                                                  |          |         | 1646 Sh: dk gy, dk gy brn, sily calcs, sily bits, occ<br>unident org rmns aa, show aa, hydc odor aa.                                         |



|                     |                                    |  |              |                                                 |  |  |                                                                                           |
|---------------------|------------------------------------|--|--------------|-------------------------------------------------|--|--|-------------------------------------------------------------------------------------------|
| Date                |                                    |  |              |                                                 |  |  | 1647.5 Sh: dk gy - dk gy brn, sllly bits, tr undent<br>org debris, sllly calcs, shows aa. |
|                     | Gamma Ray (gapi)<br>0 60 120 180   |  |              | F                                               |  |  | Lithology Description                                                                     |
|                     | Drill Rate (min/m)<br>0 5 10 15    |  |              | Interpreted Lithology                           |  |  |                                                                                           |
|                     | Total Gas (units)<br>0 100 200 300 |  |              | C snd<br>m snd<br>f snd<br>Vt snd<br>Grain Size |  |  |                                                                                           |
|                     | Drilling Progress                  |  |              | Rounding<br>Sorting                             |  |  |                                                                                           |
| Slide - Rotate      |                                    |  | Depth        |                                                 |  |  |                                                                                           |
| Core                |                                    |  | Oil Shows    |                                                 |  |  |                                                                                           |
| Porosity Type       |                                    |  | Porosity (%) |                                                 |  |  |                                                                                           |
| 5<br>10<br>15<br>20 |                                    |  |              |                                                 |  |  |                                                                                           |



DM 691606 v5

## Well Information

Operator: **ConocoPhillips Canada Resources Corp.** WID 2080  
 Well Name: **COPRC Loon Creek O-6**  
 Location: **Unit O, Section 6, Grid 65-10 127-00**  
 UWI: **3000066510127000**  
 Pool / Field: **Undefined / Loon Creek**  
 Well License #: **470**  
 Province / State: **Northwest Territories**  
 Country: **Canada**

## Elevations

|                   |        |                |          |
|-------------------|--------|----------------|----------|
| Reference:        | Ground | Ground:        | 252.4 m  |
| Cut(-) / Fill(+): |        | Kelly Bushing: | 257.6 m  |
| K.B. to Ground:   | 5.2 m  | Casing Flange: | 252.73 m |

## Total Depth

| Measurement Type           | Measured Depth | True Vertical Depth |
|----------------------------|----------------|---------------------|
| Drillers TD (Tally)        | m              | m                   |
| Drillers TD (Strap or SLM) | m              | m                   |
| Loggers TD                 | m              | m                   |

## Well Co - Ordinates

|                           | Longitude           | Latitude     | Well Type: Vertical |
|---------------------------|---------------------|--------------|---------------------|
| Surface Co-Ordinates:     | 127 00 30.7 W       | 65 05 51.5 N | NS:<br>EW:          |
| Int. Casing Co-Ordinates: |                     |              | NS:<br>EW:          |
| Bottom Hole Co-Ordinates: |                     |              | NS:<br>EW:          |
| UTM Surface Co-Ordinates: | Northing: 7220618.3 |              | Easting: 593560.14  |

## Drilling Fluid Summary

| Fluid Type          | From  | To    |
|---------------------|-------|-------|
| Spud Mud & Gel Chem | 0 m   | 600 m |
| Invert (Versaclean) | 600 m | m     |

## Casing Summary

| Type    | Hole Size | Casing Size | Landed At |
|---------|-----------|-------------|-----------|
| Surface | 311 mm    | 244.5 mm    | 596.78 m  |

## Well Summary

Spud Date: Jan 26, 2013 @ 12:00hrs Contractor: Beaver Drilling Ltd.  
 TD Date: Rig Release Date:

## Work Schedule

| Contractor              | Geologist     | Log Interval | Dates Logged   |
|-------------------------|---------------|--------------|----------------|
| Black Gold Geotechnical | Dave Lawrence | 0 m - m      | Jan 24, 2013 - |

## Remarks

| Drilling Progress |                    |           |              | Lithology Description |        |              |               |           |                       |            |          |         |                                                                                                                                                                 |
|-------------------|--------------------|-----------|--------------|-----------------------|--------|--------------|---------------|-----------|-----------------------|------------|----------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Date              | Total Gas (units)  |           |              | Slide - Rotate        | Depth  | Porosity (%) | Porosity Type | Oil Shows | Interpreted Lithology | Grain Size | Rounding | Sorting |                                                                                                                                                                 |
|                   | 0 100 200 300      | 0 5 10 15 | 0 60 120 180 |                       |        |              |               |           |                       |            |          |         |                                                                                                                                                                 |
|                   | Drill Rate (min/m) |           |              |                       |        |              |               |           |                       |            |          |         |                                                                                                                                                                 |
|                   | Gamma Ray (gapi)   |           |              |                       |        |              |               |           |                       |            |          |         |                                                                                                                                                                 |
|                   | 0 100 200 300      |           |              |                       |        |              |               |           |                       |            |          |         |                                                                                                                                                                 |
|                   | 0 5 10 15          |           |              |                       |        |              |               |           |                       |            |          |         |                                                                                                                                                                 |
|                   | 0 60 120 180       |           |              |                       |        |              |               |           |                       |            |          |         |                                                                                                                                                                 |
|                   |                    |           |              |                       | 30 m   |              |               |           |                       |            |          |         |                                                                                                                                                                 |
|                   |                    |           |              |                       | 1390 m |              |               |           |                       |            |          |         | Sh: m gy, dk gy ip, sbfis ip, slly mmca, occly slty, tr sdy, slly carb ip / 5% Ss strgs aa.                                                                     |
|                   |                    |           |              |                       | 1400 m |              |               |           |                       |            |          |         | Sh: m gy, dk gy ip, sbfis ip, slly mmca, occly slty, tr sdy, slly carb ip / 5% Ss strgs aa.                                                                     |
|                   |                    |           |              |                       | 1410 m |              |               |           |                       |            |          |         | Sh: m gy, dk gy ip, sbfis ip, slly mmca, occly slty, tr sdy, slly carb ip / 5% Ss strgs aa.                                                                     |
|                   |                    |           |              |                       | 1420 m |              |               |           |                       |            |          |         | Sh: aa                                                                                                                                                          |
|                   |                    |           |              |                       | 1430 m |              |               |           |                       |            |          |         | Sh: m gy, dk gy ip, sbfis ip, slly mmca, occly slty, tr sdy, slly carb ip / occ lt gy Clyst, sft, occly slty, slly calcs ip, grds to mrlst ip / 5% Ss strgs aa. |

DS 0.79° AZ 33.41°  
TVD 1387.75

DS 1.01° AZ 41.48°  
TVD 1406.92

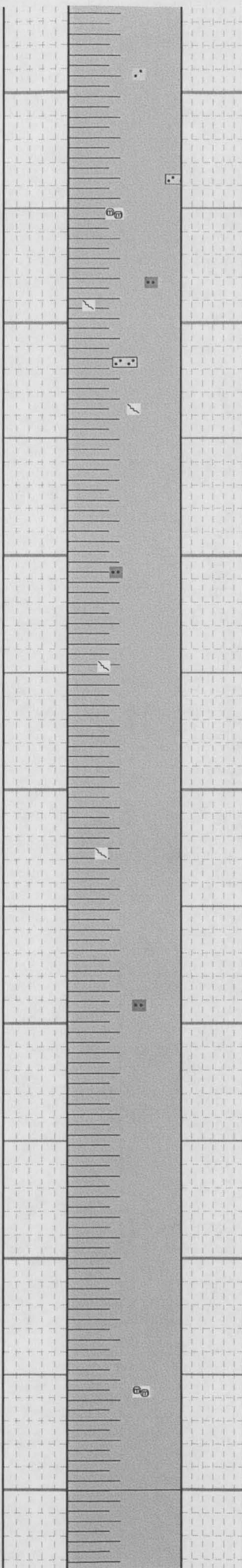
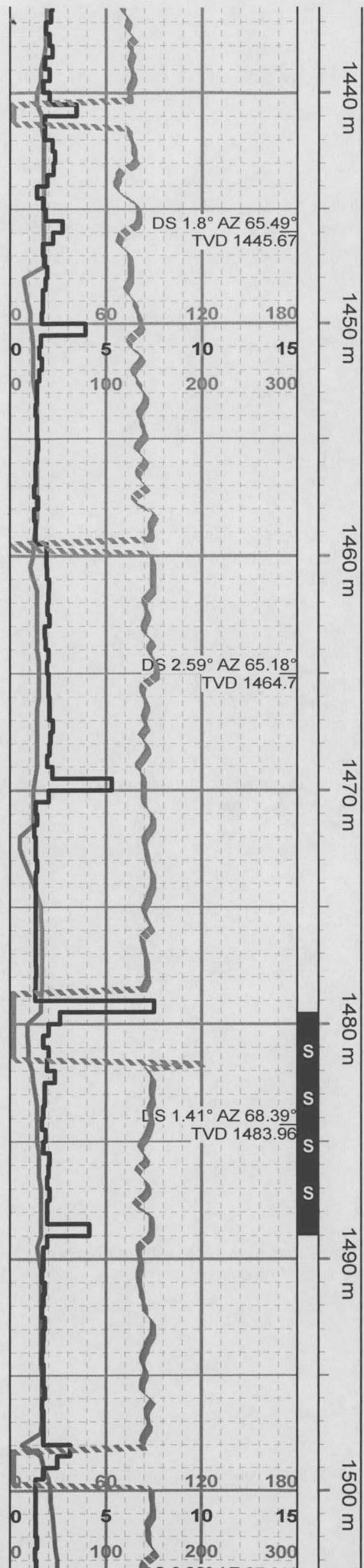
WOB 6000  
RPM 60+130  
PP 11500  
SPM#1&2, 97  
PO 1.9m3/min  
MW 910  
VIS 54

DS 1.32° AZ 63.11°  
TVD 1426.09

W a

Ss: lt gy, l vf gred, sb ang, w srt, qtz & lt cold cht, calcs & cly cmt, slty, shy ip, tr dk lit grs, grds to sdy sltst ip, tt, no shows





Sh: m gy, mnr dk gy ip, sbfis ip, slly mmca, occlly slty, tr sdly, slly carb ip, tr mnr SS lams aa.

Sh: m gy, mnr dk gy, sbfis ip, slly mmca, tr slty ip / tr fros calc in sample (mnr fracs?)

Sh: m - occlly dk gy, plty, fis, slly mmca, slly wxy tex, tr slty ip.

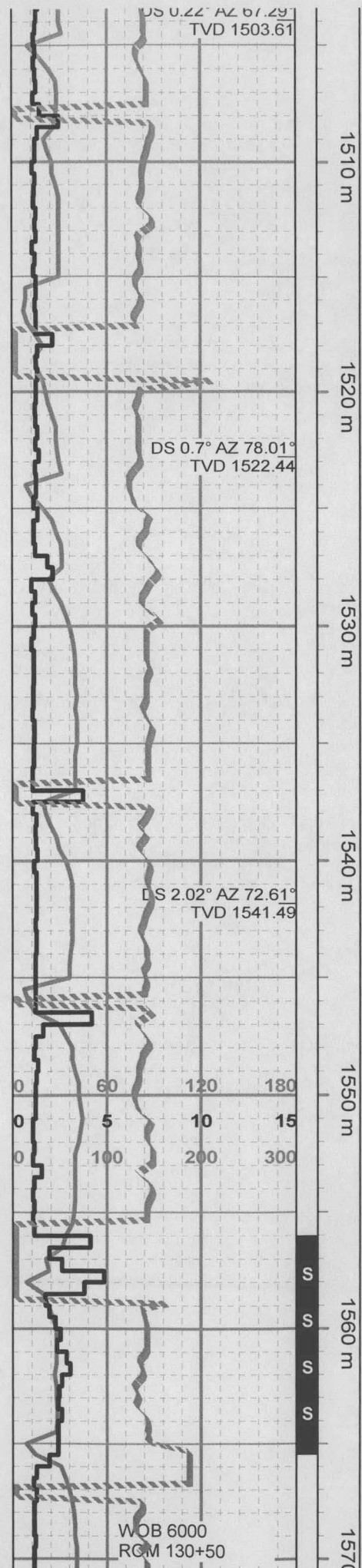
Sh: m - occlly dk gy, plty, fis, slly mmca, slly wxy tex, tr slty ip.

Sh: m - occlly dk gy, plty, fis, slly mmca, slly wxy tex, tr slty ip.

Sh: m - occlly dk gy, plty, fis, slly mmca, slly wxy tex, tr slty ip.

Sh: m - occlly dk gy, plty, fis, slly mmca, slly wxy tex, tr slty ip.





Sh: m - dk gy, sbfis, slly mmca, slly wxy tex, tr  
sly ip.

Sh: m - dk gy, sbfis, slly mmca, slly wxy tex, tr  
sly ip.

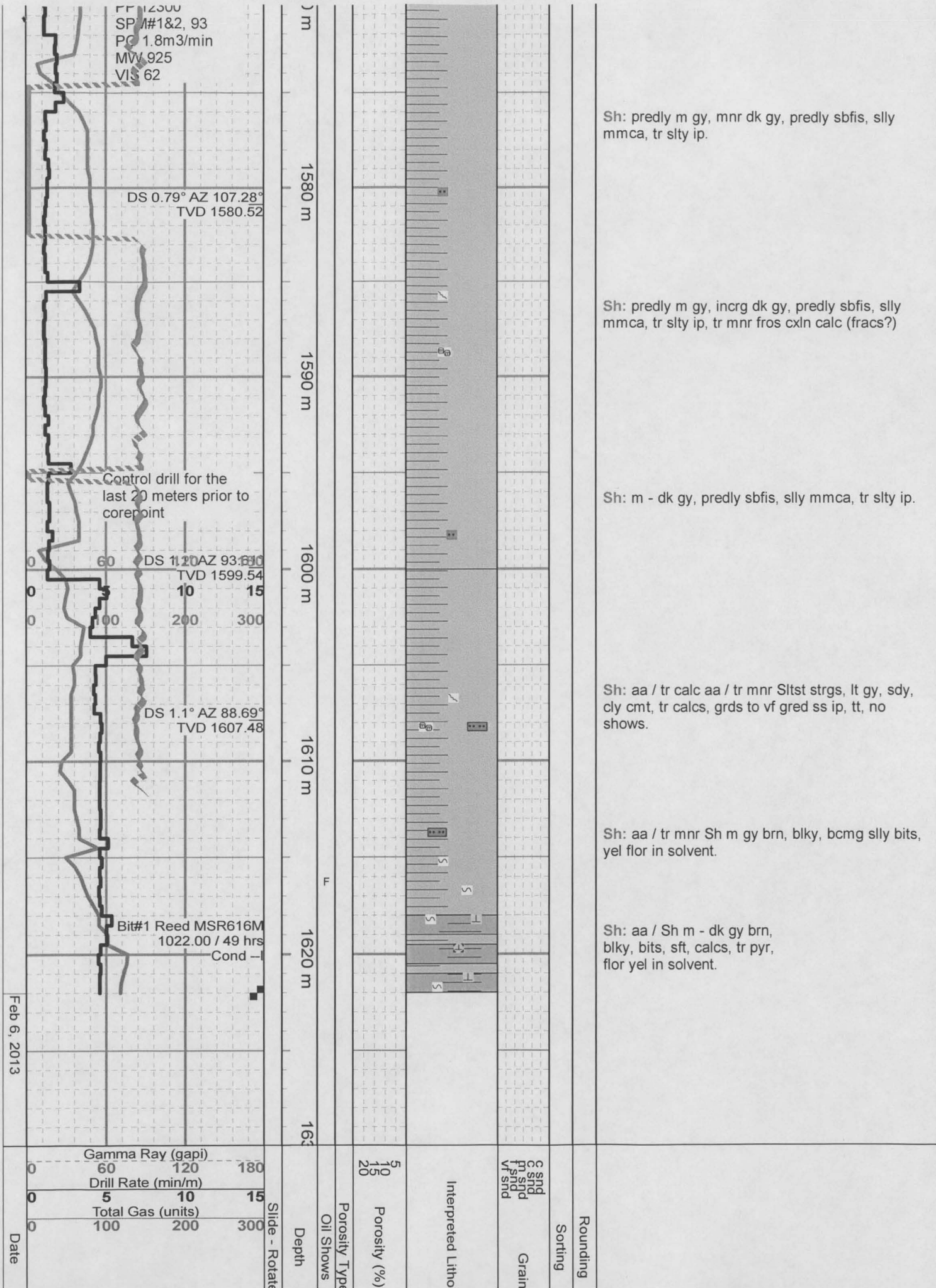
Sh: m - dk gy, sbfis, slly mmca, slly wxy tex, tr  
sly ip / mnr Clyst strgs aa / tr fros calc in sample  
from pos fracs.

Sh: predly m gy, plty, sbfis, slly mmca, p tr sly ip,  
tr clyst aa, tr fros calc aa.

Sh: aa.

Sh: predly m gy, plty, sbfis, slly mmca, p tr sly ip,  
tr clyst aa, tr fros calc aa.

Sh: predly m gy, sbfis, slly mmca, p tr sly ip, tr  
clyst aa, tr fros calc aa.



Sh: predly m gy, mnr dk gy, predly sbfis, sily mmca, tr slty ip.

Sh: predly m gy, incrg dk gy, predly sbfis, sily mmca, tr slty ip, tr mnr fros cxln calc (fracs?)

Sh: m - dk gy, predly sbfis, sily mmca, tr slty ip.

Sh: aa / tr calc aa / tr mnr Slst strgs, lt gy, sd, cly cmt, tr calcs, grds to vf gred ss ip, tt, no shows.

Sh: aa / tr mnr Sh m gy brn, blk, bcmg sily bits, yel flor in solvent.

Sh: aa / Sh m - dk gy brn, blk, bits, sft, calcs, tr pyr, flor yel in solvent.



### Well Information

Operator: **ConocoPhillips Canada Resources Corp.**  
 Well Name: **COPRC Loon Creek O-6**  
 Location: **Unit O, Section 6, Grid 65-10 127-00**  
 UWI: **300O066510127000**  
 Pool / Field: **Undefined / Loon Creek**  
 Well License #: **470**  
 Province / State: **Northwest Territories**  
 Country: **Canada**

### Elevations

|                   |        |                |          |
|-------------------|--------|----------------|----------|
| Reference:        | Ground | Ground:        | 252.4 m  |
| Cut(-) / Fill(+): |        | Kelly Bushing: | 257.6 m  |
| K.B. to Ground:   | 5.2 m  | Casing Flange: | 252.73 m |

### Total Depth

| Measurement Type           | Measured Depth | True Vertical Depth |
|----------------------------|----------------|---------------------|
| Drillers TD (Tally)        | m              | m                   |
| Drillers TD (Strap or SLM) | m              | m                   |
| Loggers TD                 | m              | m                   |

### Well Co - Ordinates

|                           | Longitude           | Latitude     | Well Type: Vertical |
|---------------------------|---------------------|--------------|---------------------|
| Surface Co-Ordinates:     | 127 00 30.7 W       | 65 05 51.5 N | NS:<br>EW:          |
| Int. Casing Co-Ordinates: |                     |              | NS:<br>EW:          |
| Bottom Hole Co-Ordinates: |                     |              | NS:<br>EW:          |
| UTM Surface Co-Ordinates: | Northing: 7220618.3 |              | Easting: 593560.14  |

### Drilling Fluid Summary

| Fluid Type          | From  | To    |
|---------------------|-------|-------|
| Spud Mud & Gel Chem | 0 m   | 600 m |
| Invert (Versaclean) | 600 m | m     |

### Casing Summary

| Type    | Hole Size | Casing Size | Landed At |
|---------|-----------|-------------|-----------|
| Surface | 311 mm    | 244.5 mm    | 596.78 m  |

### Well Summary

Spud Date: **Jan 26, 2013 @ 12:00hrs** Contractor: **Beaver Drilling Ltd.**  
 TD Date: \_\_\_\_\_ Rig Release Date: \_\_\_\_\_

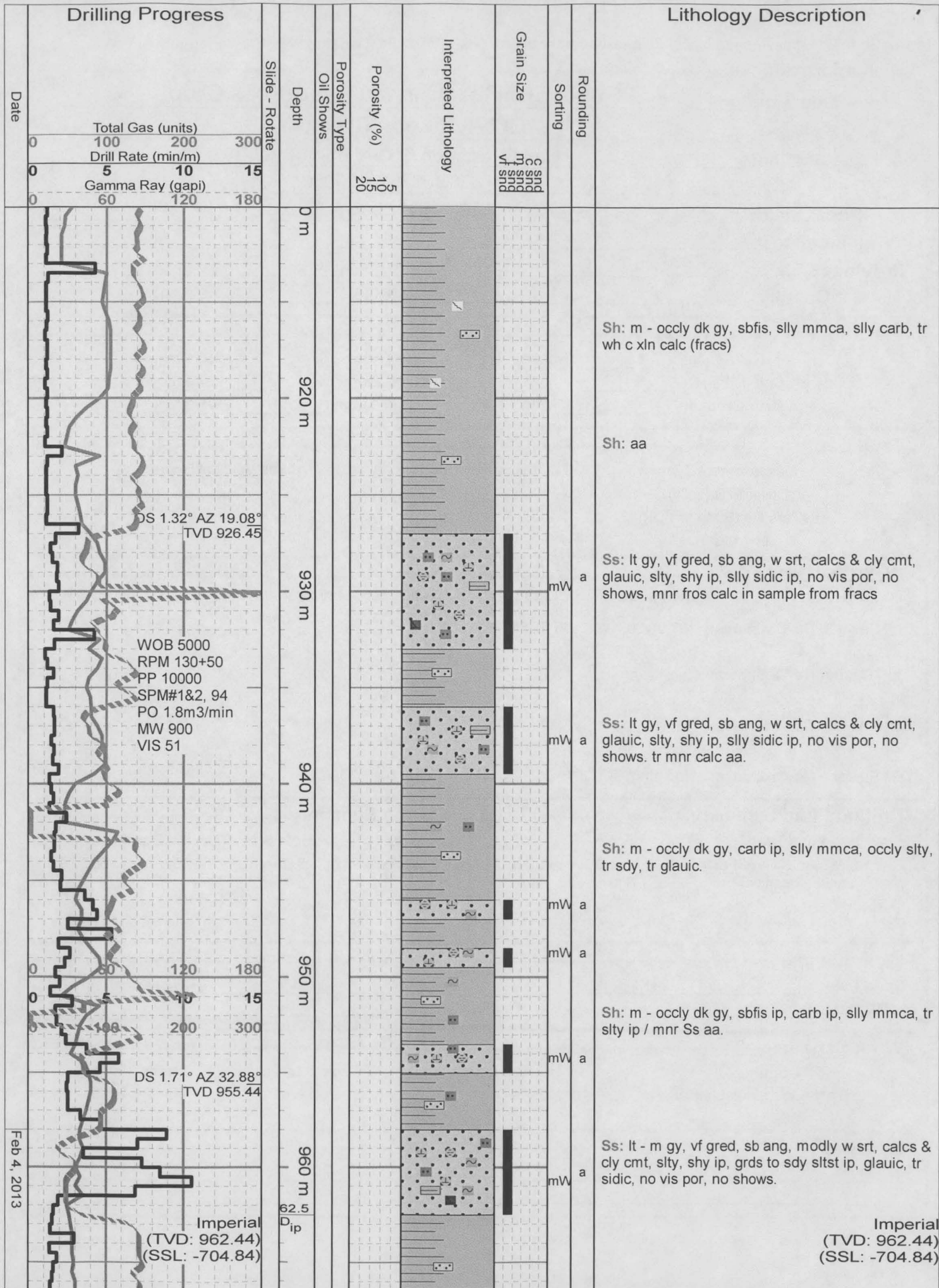
### Work Schedule

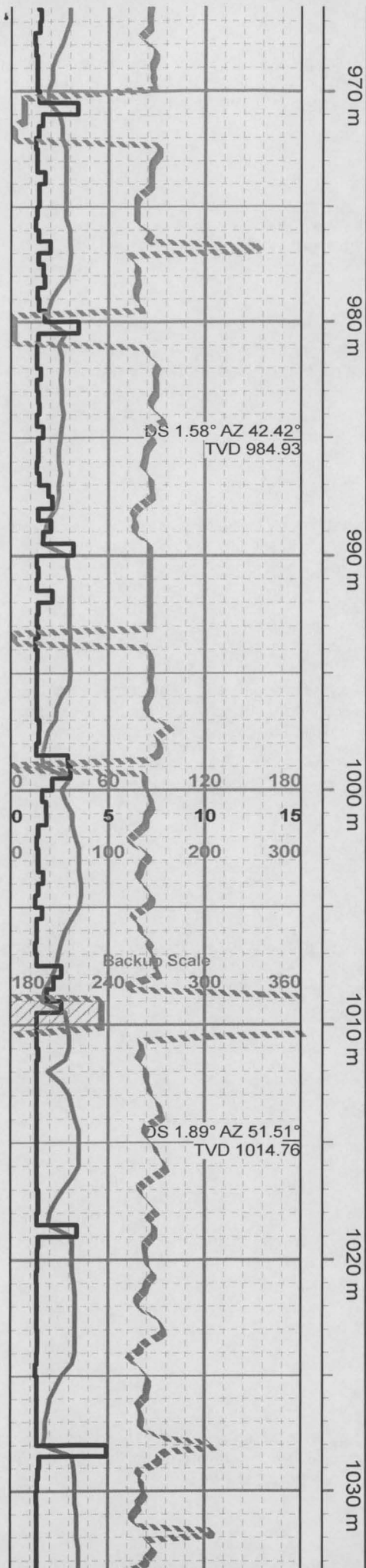
| Contractor              | Geologist     | Log Interval | Dates Logged   |
|-------------------------|---------------|--------------|----------------|
| Black Gold Geotechnical | Dave Lawrence | 0 m - m      | Jan 24, 2013 - |

### Remarks

\_\_\_\_\_  
 \_\_\_\_\_







Sh: m gy, gy gn, sbfis, sily mmca, sily wxy tex.

Sh: m gy, gy gn ip, tr red brn, plty, sbfis, sily mmca, tr slty ip.

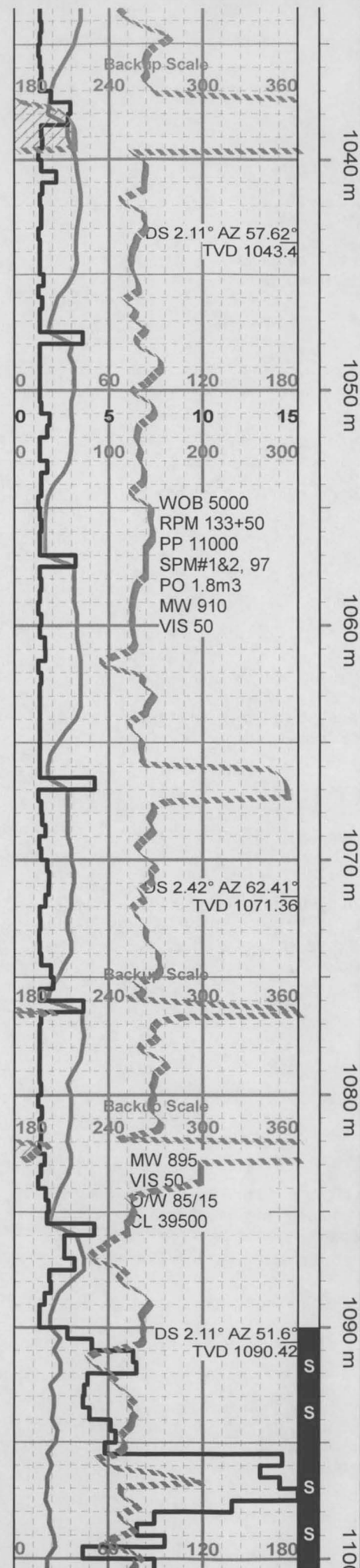
Sh: m gy, gy gn ip, tr red brn, plty, sbfis, sily mmca, tr slty ip.

Sh: m gy, gy gn ip, tr red brn, plty, sbfis, sily mmca, tr slty ip.

Sh: m gy, gy gn ip, tr red brn, plty, sbfis, sily mmca, tr slty ip / occ intbd Ss strgs, lt - m gy, gy gn, vf gred, sb ang, w srt, calcs & cly cmt, shy, tt, no shows.

Sh: m gy, gy gn ip, tr red brn, plty, sbfis, sily mmca, tr slty ip / occ intbd Ss strgs, lt - m gy, gy gn, vf gred, sb ang, w srt, calcs & cly cmt, shy, tt, no shows.

Sh: m gy, gy gn ip, tr red brn, plty, sbfis, sily mmca, tr slty ip / occ 5% intbd Ss strgs, lt - m gy, gy gn, vf gred, sb ang, w srt, calcs & cly cmt, shy, tt, no shows.



Sh: lt - m gy, sbfis ip, sly mmca, occlly slty, sly calcs ip, grds to shy slty ip, tr fros calc (mnr fracs) tr mnr lt gy clyst strgs, tr mnr Ss strgs aa.

Ss: lt gy, vf gred, sb ang, w srt, calcs & cly cmt, tr dk lit grs, grds to sdy sltst ip, slty, shy, tt, no shows.

Sh: predly m gy, sbfis ip, sly mmca, occlly slty, sly calcs ip, grds to shy slty ip, tr mnr Ss strgs aa.

Sh: predly m gy, sbfis ip, sly mmca, occ sly wxy tex, occlly slty, sly sdy ip / occ intbd clyst lt gy, sft, sly calcs.

Ss: lt gy, vf gred, sb ang, w srt, qtz & lt cold cht, calcs & cly cmt, slty, shy, p tr glauic, tr dk lit grs, occlly grds to sdy sltst, no vis por, no shows.

Sh: lt - m gy, sbfis ip, sly mmca, occ sly wxy tex, occlly slty, tr sdy / occ intbd clyst lt gy, sft, sly calcs, grds to mrlst ip.

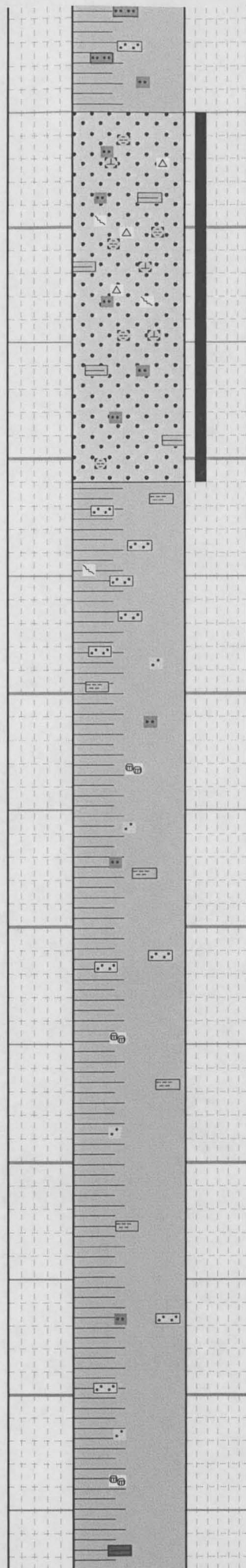
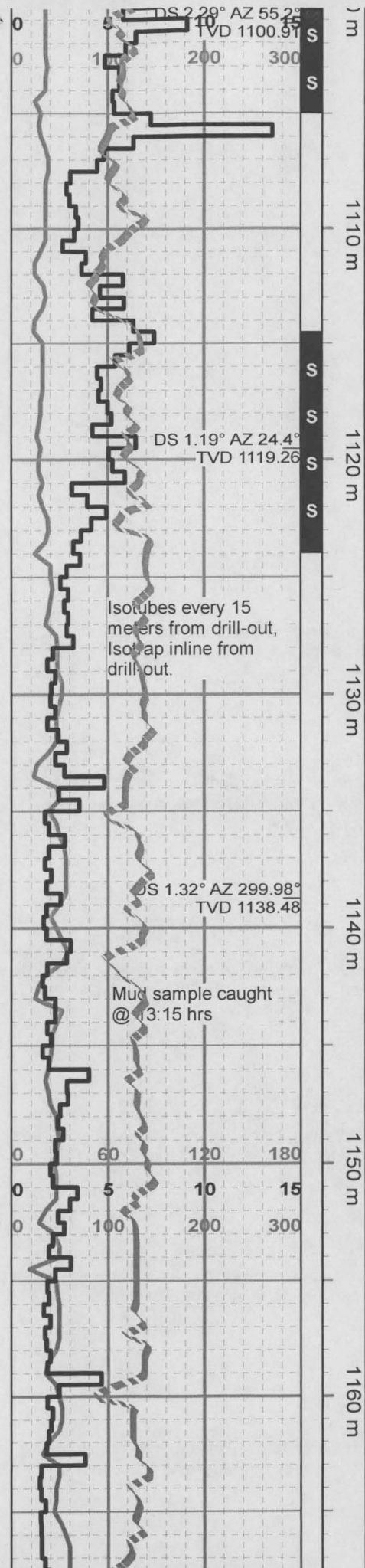
Sh: aa

Ss: lt gy, vf gred, sb ang, modly w srt, qtz & lt cold cht, calcs & cly cmt, tr mnr dk lit grs, slty, occlly shy, no vis por or shows.

Ss: lt gy, vf gred, sb ang, modly w srt, qtz & lt cold cht, calcs & cly cmt, tr mnr dk lit grs, slty, occlly shy, no vis por or shows.

Sh: aa / abnt crm clvst sft calcs grds to mrlst in





Sh: aa / mn red brn gy, sb ang, modly w srt, qtz & lt cold chd, calcs & cly cmt, tr mn dk lit grs, slty, occlly sdy & slly slty.

Ss: lt gy, vf gred, sb ang, modly w srt, qtz & lt cold chd, calcs & cly cmt, tr mn dk lit grs, slty, occlly grds to sdy sltst ip, occlly shy, no vis por or shows.

Ss: aa, occ red brn ss, fer, tr fros calc in sample indicating frags.

Ss: lt gy, vf gred, sb ang, modly w srt, qtz & lt cold chd, calcs & cly cmt, tr mn dk lit grs, slty, occlly shy, slly sidic ip, no vis por or shows.

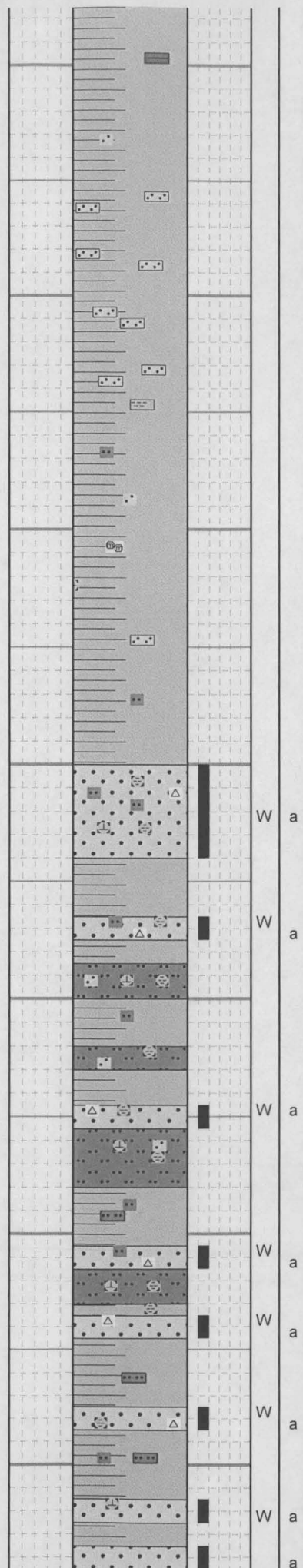
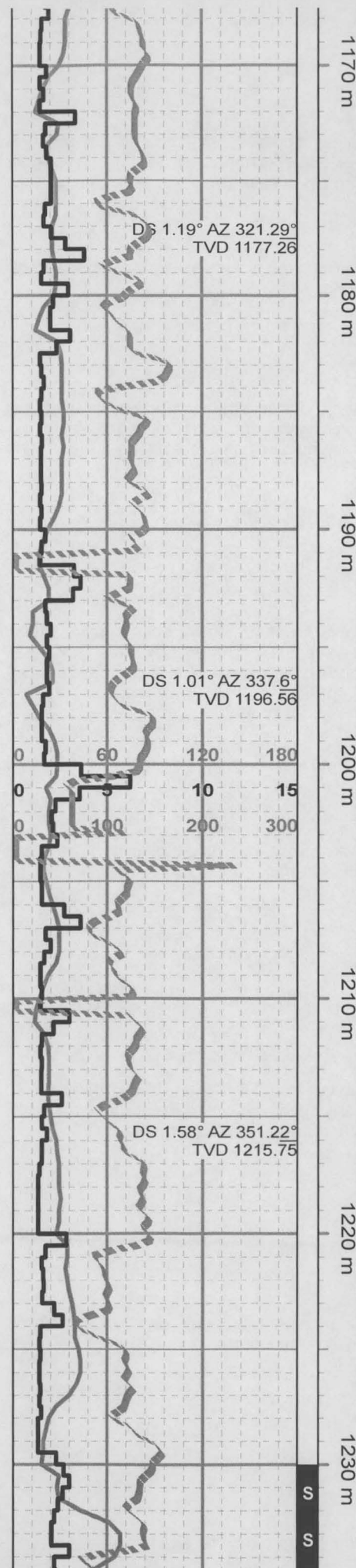
Sh: m gy / mn lt & dkr gy, sbfis ip, occlly slty & sdy, slly mmca, occ intbd lt gy & rust gy clyst, v sft, occlly grds to mrlst ip, fros calc in sample ab.

Sh: m gy / mn lt & dkr gy, sbfis ip, occlly slty & sdy, slly mmca, occ intbd lt gy clyst, v sft, occlly grds to mrlst ip.

Sh: m gy / mn lt & dkr gy, sbfis ip, occlly slty & sdy, slly mmca, occ intbd lt gy clyst, v sft, occlly grds to mrlst ip / mn Ss strgs aa.

Sh: m gy / mn lt & dkr gy, sbfis ip, occlly slty & sdy, slly mmca, tr clyst aa / 10% intbd Ss strgs aa.

Sh: aa, tr mn red gy fer sh strgs.



Sh: aa / 10-15% Ss strgs crm - lt gy, vf gred, sb ang, w srt, qtz & lt cold cht, calcs & cly cmt, tr dk lit grs, slty, shy, tt, no shows.

Sh: lt - m gy, mntr dk gy aa.

Sh: m - dk gy, sbfis ip, slly carb, slly mmca, slty & tr sdy ip, occlly grds to shy sltst ip / 5% Ss strgs aa.

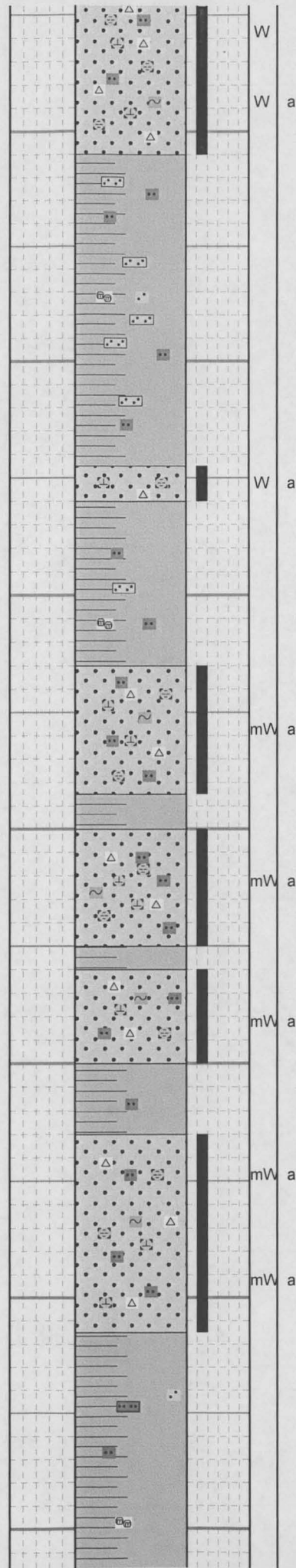
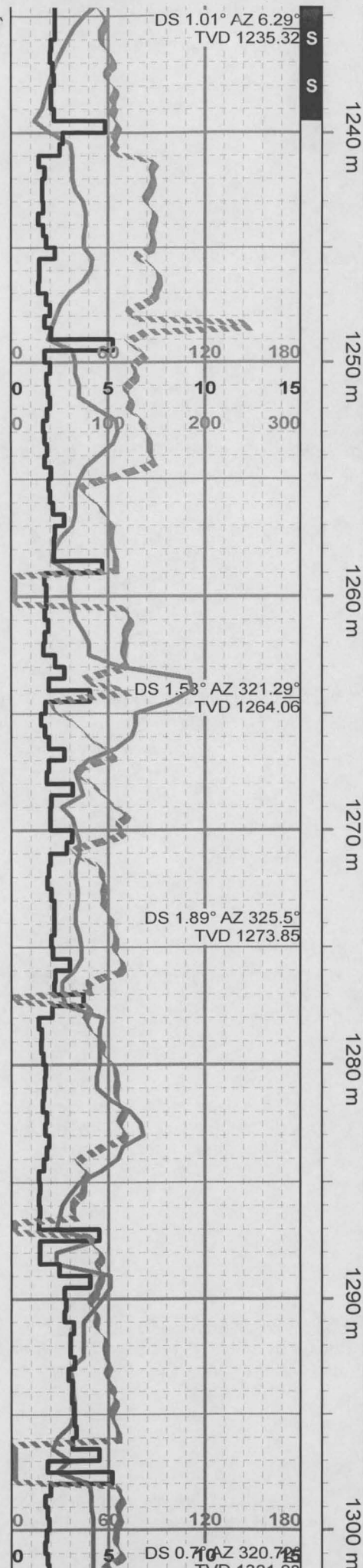
Ss: crm, vf gred, sb ang, w srt, qtz & lt cold cht, calcs & cly cmt, slty, p tr dk lit grs, p tr arkic, no vis por or shows.

Sltst: lt - m gy, cly cmt, calcs ip, shy, sdy, grds to vf gred ss ip, tr dk lit grs, tt, no shows.

Sltst: lt - m gy, cly cmt, calcs ip, shy, sdy, grds to vf gred ss ip, tr dk lit grs, tt, no shows.

Sltst: lt - m gy, cly cmt, calcs ip, shy, sdy, grds to vf gred ss ip, tr dk lit grs, tt, no shows.

Sh: m - occlly dk gy, sbfis ip, slly carb ip, occlly v slty, tr sdy, slly mmca, slly wxy tex ip.



Ss: v lt gy, vf gred, sb ang, w srt, qtz & lt cold cht, calcs & cly cmt, slty, shy ip, tr dk lit grs, p tr glauic, grds to sltst, tt, no shows.

Sh: m - occlly dk gy, sbfis ip, slly carb ip, occlly v slty, tr sdy, slly mmca, slly wxy tex ip.

Sh: m - occlly dk gy, sbfis ip, slly carb ip, occlly v slty, tr sdy, slly mmca, slly wxy tex ip.

Ss: v lt gy, vf gred, sb ang, w srt, qtz & lt cold cht, calcs & cly cmt, slty, shy ip, tr dk lit grs, p tr glauic, grds to sltst, tt, no shows.

Ss: v lt gy, vf gred, sb ang, modly w srt, qtz & lt cold, calcs & cly cmt, tr glauic, slty, shy, tr dk lit grs, tt, no shows.

Ss: lt gy, vf gred, sb ang, modly w srt, qtz & lt cold, calcs & cly cmt, tr glauic, slty, shy ip, tr dk lit grs, tt, no shows.

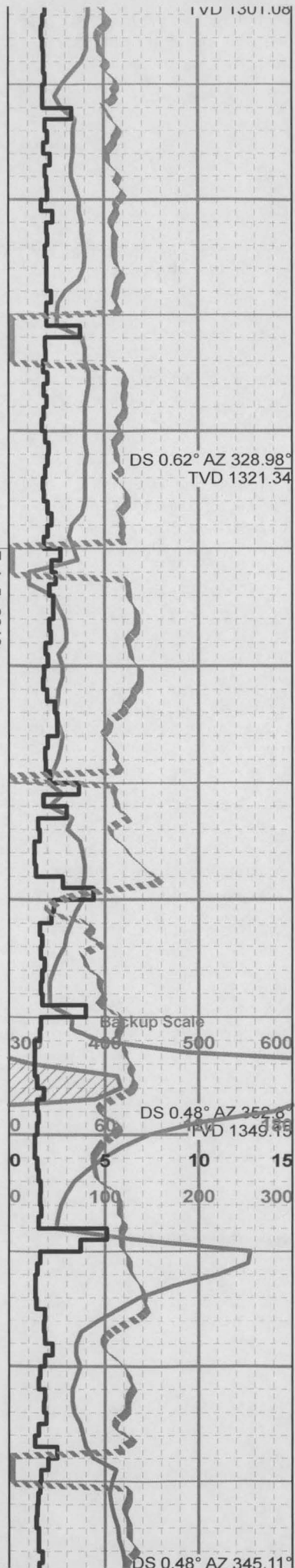
Ss: lt gy, vf gred, sb ang, modly w srt, qtz & lt cold, calcs & cly cmt, tr glauic, slty, shy ip, tr dk lit grs, tt, no shows.

Ss: lt gy, vf gred, sb ang, modly w srt, qtz & lt cold, calcs & cly cmt, tr glauic, slty, shy ip, tr dk lit grs, tt, no shows. Occlly grds to sdy sltst ip.

Sh: m gy, blkly, slty, sdy ip, slly mmca, grds to shy sltst ip.



Feb 5, 2013



1310 m

1320 m

1330 m

1340 m

1350 m

1360 m

Sh: m gy, blk, slty, sdy ip, sly mmca, grds to shy sltst ip.

Sh: m gy, blk, slty, sdy ip, sly mmca, grds to shy sltst ip.

Sh: m gy, blk, slty, sdy ip, sly mmca, grds to shy sltst ip.

Sh: m gy, blk, slty, sdy ip, sly mmca, grds to shy sltst ip.

mW a

Sh: m gy, blk, slty, sdy ip, sly mmca, grds to shy sltst ip.

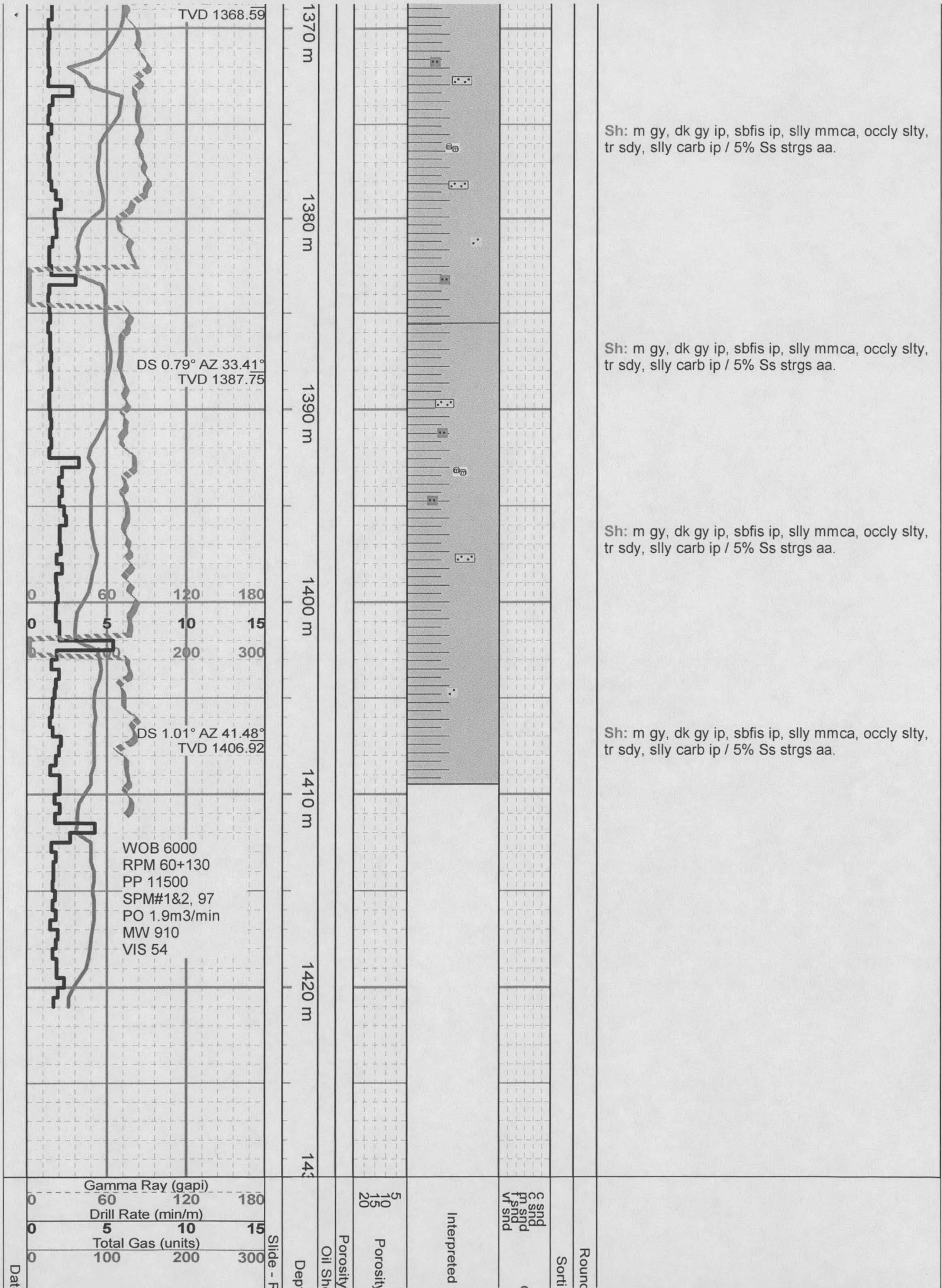
mW a

Ss: lt gy, vf gred, sb ang, modly w srt, qtz & lt cold, calcs & cly cmt, tr glauc, slty, shy ip, tr dk lit grs, tr fros calc (fracs)no vis por, no shows.

mW a

Ss: lt gy, vf gred, sb ang, modly w srt, qtz & lt cold, calcs & cly cmt, tr glauc, slty, shy ip, tr dk lit grs, tr fros calc (fracs)no vis por, no shows.

Sh: m gy, dk gy ip, sbfis ip, sly mmca, occlly slty, tr sdy, sly carb ip / 10% Ss aa.





WID 2080

DM 691606

V3

**Well Information**

Operator: **ConocoPhillips Canada Resources Corp.**

Well Name: **COPRC Loon Creek O-6**

Location: **Unit O, Section 6, Grid 65-10 127-00**

UWI: **300O066510127000**

Pool / Field: **Undefined / Loon Creek**

Well License #: **470**

Province / State: **Northwest Territories**

Country: **Canada**

**Elevations**

Reference: \_\_\_\_\_ Grd \_\_\_\_\_ Ground: **252.4 m**

Cut(-) / Fill(+): \_\_\_\_\_ Kelly Bushing: **257.6 m**

K.B. to Ground: **5.2 m** Casing Flange: \_\_\_\_\_ m

**Total Depth**

| Measurement Type           | Measured Depth | True Vertical Depth |
|----------------------------|----------------|---------------------|
| Drillers TD (Tally)        | m              | m                   |
| Drillers TD (Strap or SLM) | m              | m                   |
| Loggers TD                 | m              | m                   |

**Well Co - Ordinates**

|                           | Longitude           | Latitude     | Well Type: Vertical |
|---------------------------|---------------------|--------------|---------------------|
| Surface Co-Ordinates:     | 127 00 30.7 W       | 65 05 51.5 N | NS:<br>EW:          |
| Int. Casing Co-Ordinates: |                     |              | NS:<br>EW:          |
| Bottom Hole Co-Ordinates: |                     |              | NS:<br>EW:          |
| UTM Surface Co-Ordinates: | Northing: 7220618.3 |              | Easting: 593560.14  |

**Drilling Fluid Summary**

| Fluid Type          | From  | To    |
|---------------------|-------|-------|
| Spud Mud & Gel Chem | 0 m   | 600 m |
| Invert              | 600 m | m     |

**Casing Summary**

| Type    | Hole Size | Casing Size | Landed At |
|---------|-----------|-------------|-----------|
| Surface | 311 mm    | 244.5 mm    | 596.78 m  |

**Well Summary**

Spud Date: **Jan 26, 2013 @ 12:00hrs** Contractor: **Beaver Drilling Ltd.**

TD Date: \_\_\_\_\_ Rig Release Date: \_\_\_\_\_

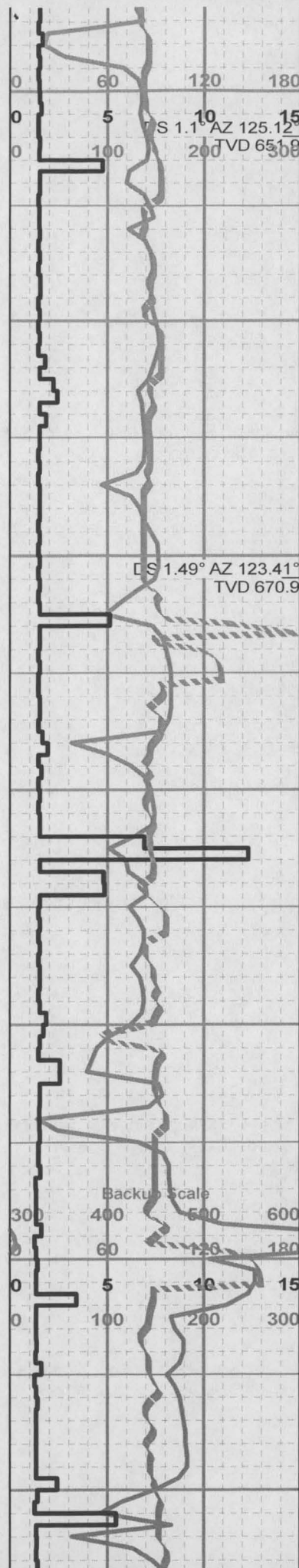
**Work Schedule**

| Contractor              | Geologist     | Log Interval | Dates Logged   |
|-------------------------|---------------|--------------|----------------|
| Black Gold Geotechnical | Dave Lawrence | 0 m - m      | Jan 24, 2013 - |

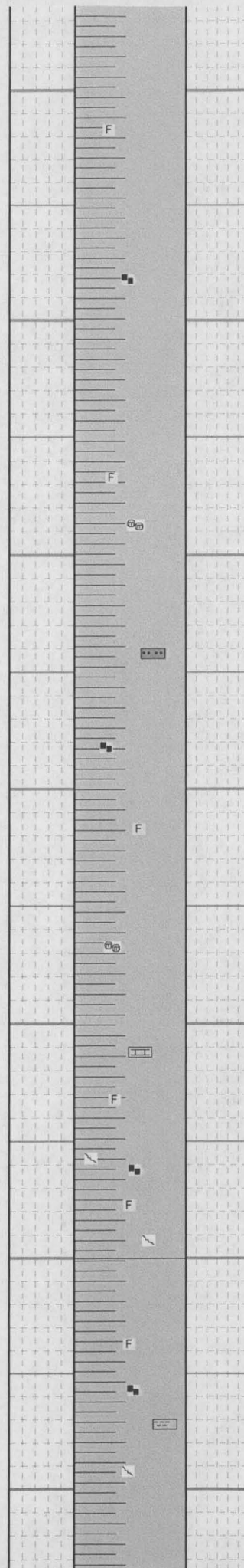
**Remarks**



| Drilling Progress |                                                                                                                                                                                      |       |                                     | Lithology Description |                                                               |                     |                                                                                                                                                                                                                                                                      |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------------------------------|-----------------------|---------------------------------------------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Date              | Slide - Rotate                                                                                                                                                                       | Depth | Porosity (%)                        | Interpreted Lithology | Grain Size                                                    | Rounding            |                                                                                                                                                                                                                                                                      |
|                   |                                                                                                                                                                                      |       |                                     |                       |                                                               |                     |                                                                                                                                                                                                                                                                      |
|                   | Total Gas (units)<br>0 100 200 300<br>Drill Rate (min/m)<br>0 5 10 15<br>Gamma Ray (gapi)<br>0 60 120 180                                                                            |       | Porosity Type<br>Oil Shows<br>Depth |                       | Grain Size<br>cc<br>m<br>ss<br>s<br>v<br>sand<br>silt<br>clay | Rounding<br>Sorting |                                                                                                                                                                                                                                                                      |
| 2013              |                                                                                                                                                                                      | 0 m   |                                     |                       |                                                               |                     | Sh: m - occlly dk gy, sbfis ip, slly carb ip, occlly mmca, slly slty ip, pyr nods, inoc / tr mnr Siltst lams, lt - m gy, calcs & cly cmt, tr carb specs, sdy ip, no vis por, no shows.<br><br>Surface hole TD 600m @ 19:45hrs, Jan 29/13<br>Casing set @ 597 meters. |
| Feb 2, 2013       | Bit#1A Reed S11G<br>600.00 / 46.75 hrs<br>Cond 2-2-WT-A-<br>E-1-FC-TD<br>1° AZ 110.00°<br>TVD 600.45<br>NB# Reed MSR616M                                                             | 600 m |                                     |                       |                                                               |                     | Sh: m - dk gy, sbfis ip, slly carb ip, occlly mmca, slly slty ip / mnr Siltst lams, lt - m gy, calcs & cly cmt, tr carb specs, no vis por, no shows.                                                                                                                 |
| Feb 3, 2013       | Drill 222mm main hole with Reed PDC on a mud motor in invert mud<br>QS 1.01° AZ 122.48°<br>TVD 619.89<br>WOB 5000<br>RPM 120+50<br>PP 8100<br>SPM 80<br>PO 1.4m3<br>MW 870<br>VIS 49 | 610 m |                                     |                       |                                                               |                     | Sh: m - dk gy, sbfis ip, slly carb ip, occlly mmca, slly slty ip / mnr Siltst strgs & lams aa.                                                                                                                                                                       |
|                   |                                                                                                                                                                                      | 620 m |                                     |                       |                                                               |                     | Sh: m - dk gy, sbfis, slly carb, occlly slly mmca, tr pyr, tr inoc., p tr siltst lams aa.                                                                                                                                                                            |
|                   |                                                                                                                                                                                      | 630 m |                                     |                       |                                                               |                     | Sh: m - dk gy, sbfis, slly carb, occlly slly mmca, tr pyr, tr inoc., p tr siltst lams aa.                                                                                                                                                                            |
|                   |                                                                                                                                                                                      | 640 m |                                     |                       |                                                               |                     | Sh: m - dk gy, sbfis, slly carb, occlly slly mmca, tr pyr, tr inoc., p tr siltst lams aa.                                                                                                                                                                            |



650 m  
660 m  
670 m  
680 m  
690 m  
700 m  
710 m



Sh: m - dk gy, sbfis, sily carb, occly sily mmca, u  
pyr, tr inoc., p tr sltst lams aa.

Sh: m - dk gy, sbfis, sily carb, occly sily mmca,  
inoc., tr Sltst strgs lt - m gy, calcs & cly cmt, tt, no  
show.

Sh: m - dk gy, sbfis, sily carb, occly sily mmca,  
inoc, p tr sltst lams aa.

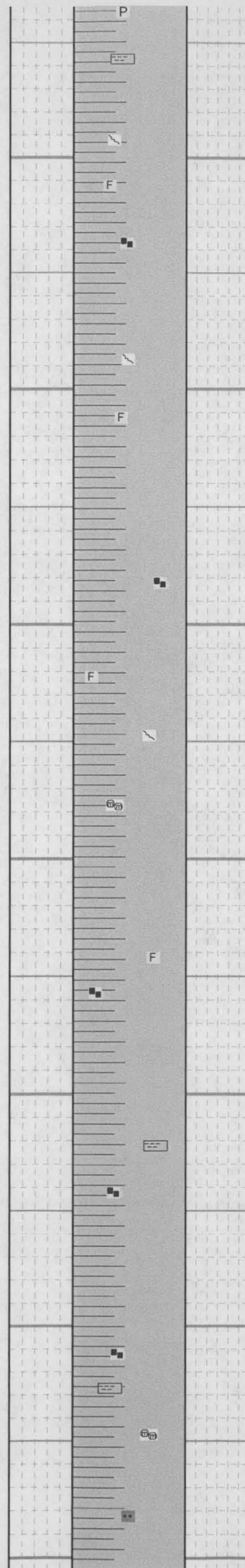
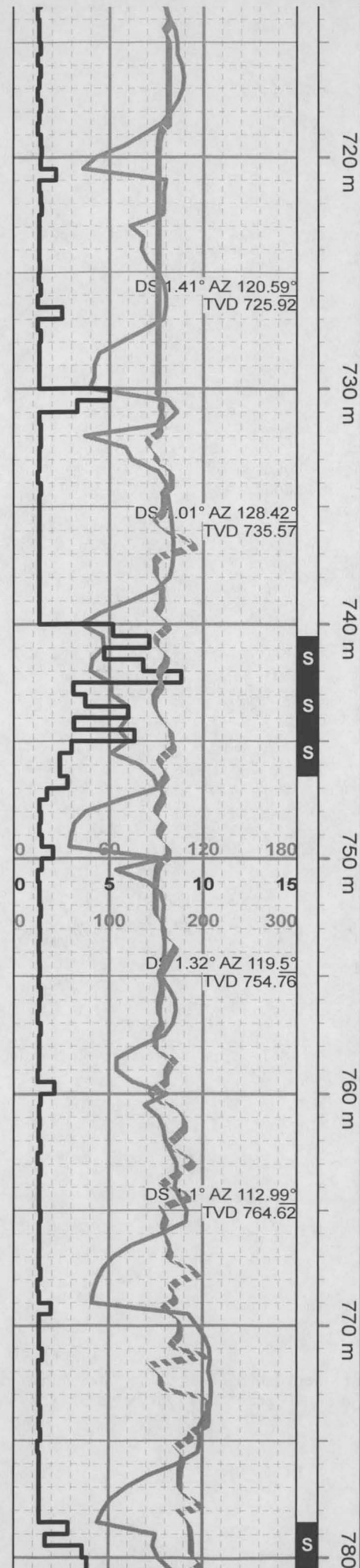
Sh: m - dk gy, sbfis, sily carb, occly sily mmca,  
inoc, p tr sltst lams aa.

Sh: m - dk gy, sbfis, sily carb, occly sily mmca,  
inoc.

Sh: aa / tr mnr Ls lams, mot crn wh, sft, chly, tr  
small fracs infilled / calc, dns.

Sh: m - dk gy, sbfis, sily carb, occly sily mmca, g tr  
inoc.

Sh: m - dk gy, sbfis, sily carb, occly sily mmca, g tr  
inoc, tr small fracs infilled / wh calc & crm chky ls  
ip.



Sh: aa , p tr pyr / tr mntr lt gy clyst lams, sft, wxy.

Sh: m - dk gy, sbfis, slly carb, occlly slly mmca, g tr inoc, tr small fracs aa

Sh: m - dk gy, sbfis, slly mmca, slly carb, inoc, tr mntr micro fracs infilled / calc aa.

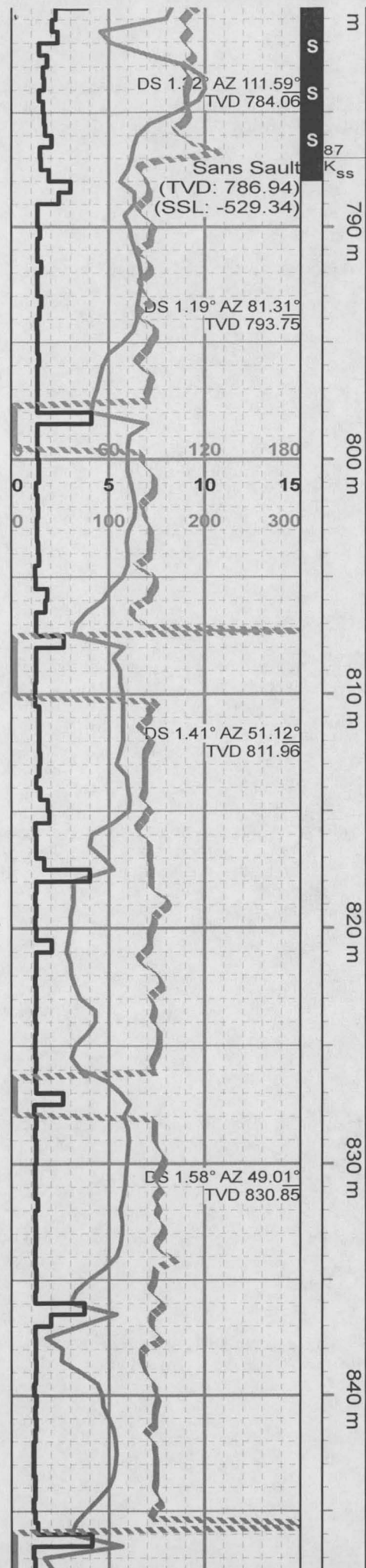
Sh: m - dk gy, sbfis, slly mmca, slly carb, inoc, tr mntr micro fracs infilled / calc aa.

Sh: m - dk gy, sbfis, slly carb, occlly slly mmca, tr inoc.

Sh: aa, mntr Clyst lams, lt gy, sdy, slly calcs, occ abnt mics flks, grds to clyy ss ip.

Sh: m - dk gy, sbfis, slly carb, occlly slly mmca, tr inoc / p tr Clyst lams, lt gy, sft, wxy, tr sdy aa.





Sh: m - occly dk gy, sbfis, slly wxy tex ip, slly mmca ip, slly carb, occly slly sidic / tr mntr clyst strgs aa, sdy aa. P tr lt gn sh, wxy tex.

Sans Sault  
(TVD: 786.94)  
(SSL: -529.34)

Sh: predly m gy, sbfis, slly wxy tex ip, slly mmca ip, slly carb, slly slty ip, tr pyr nods, occly slly sidic / occ brn sid frags / tr lt gy brn sidic clyst lams.

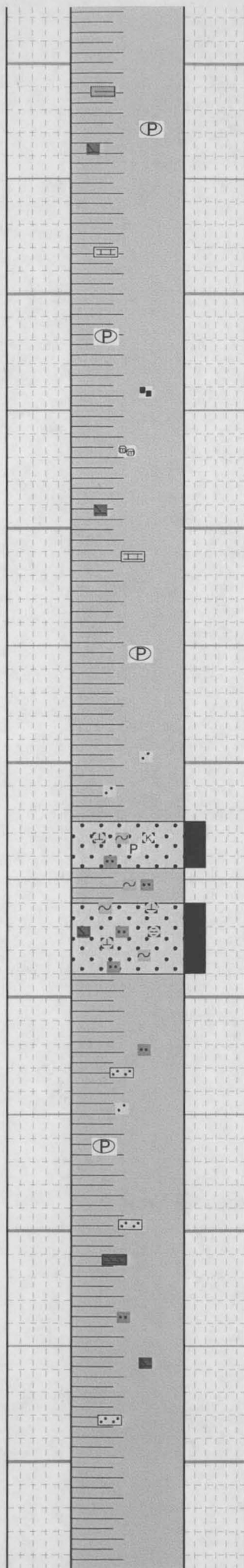
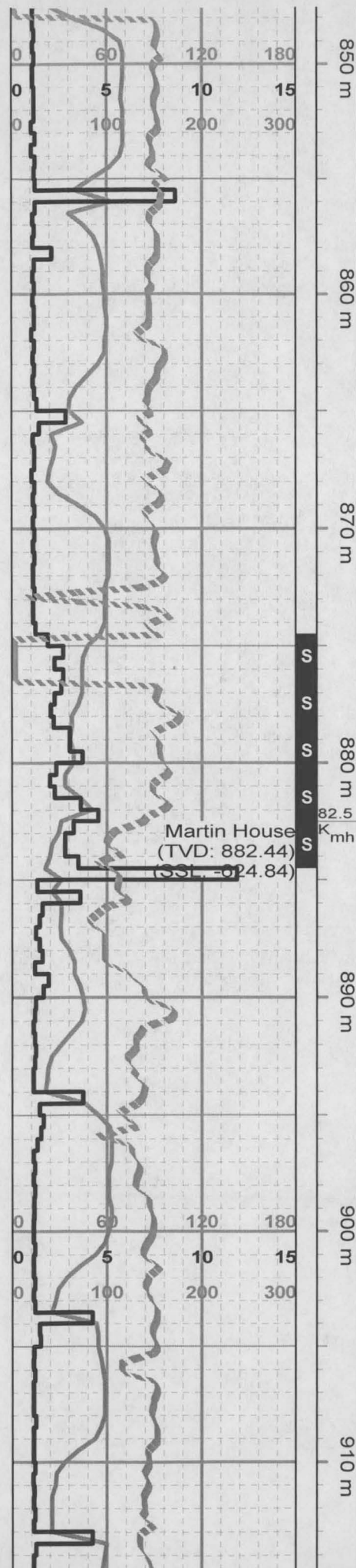
Sh: m / mntr dk gy, sbfis ip, slly mmca ip, slly carb, slly slty ip, tr pyr nods & dism pyr, occly slly sidic / occ brn sid frags.

Sh: m - dk gy, sbfis, slly mmca, slly carb, tr pyr nods, occly sidic / tr brn sid frags (nods?), tr mntr lt gy clyst lams.

Sh: m - occly dk gy, sbfis, slly mmca, slly carb, tr pyr nods, occly sidic / tr brn sid frags (nods?)

Sh: m - occly dk gy, sbfis, slly mmca, slly carb, tr pyr nods, occly sidic / tr brn sid frags / tr mntr lt gy clyst lams aa.

Sh: m - occly dk gy, sbfis, slly mmca, slly carb, tr pyr nods, occly sidic / tr brn sid frags.



Sh: m - occlly dk gy, sbfis, slly mmca, slly carb, tr pyr nods, occlly sidic / tr brn sid frags / tr mnrr lt gn sh lams, sft, wxy tex.

Sh: aa / tr Ls strgs bf, mdst - wkest, occlly chky, no vis por or show

Sh: m gy, mnrr dk gy, sbfis, slly mmca, slly sidic ip, tr pyr nods, p tr mnrr ls lenses aa.

Sh: m gy, mnrr dk gy, sbfis, slly mmca, slly sidic ip, tr pyr nods, p tr mnrr ls lenses aa.

W a Ss: crm - v lt gy, vf gred, sb ang, Martin House w srt, qtz & lt cold cht, tr dk lit grs, (TVD: 882.44) calcs & kao cmt, slty, grds to sdy (SSL: -624.84) sltst ip, p tr pyric, occlly glaucic, no vis por, no shows.

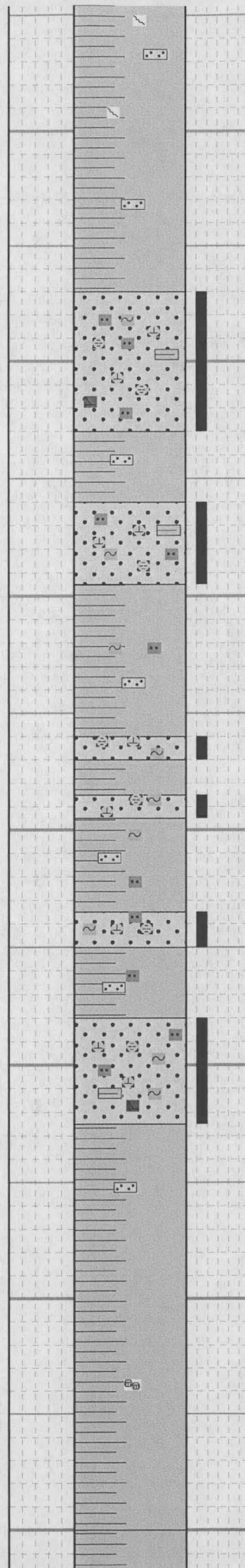
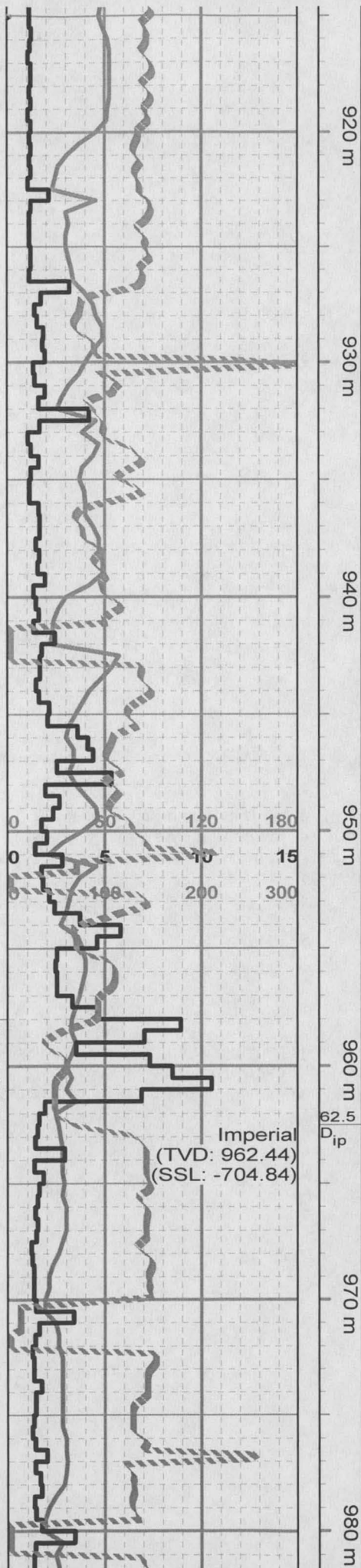
W a

Sh: m gy, mnrr dk gy, sbfis, slly mmca, slly carb, tr pyr nods, tr sdy, sdy ip, tr sidic / mnrr Ss strgs aa.

Sh: m - occlly dk gy, sbfis, slly mmca, slly carb, tr pyr nods, tr sdy, sdy ip, tr brn sid frags.



Feb 4, 2013



Sh: m - occly dk gy, sbfis, sily mmca, sily carb, tr wh c xln calc (fracs)

Sh: aa

Ss: lt gy, vf gred, sb ang, w srt, calcs & cly cmt, glauc, slty, shy ip, sily sidic ip, no vis por, no shows, mntr fros calc in sample from fracs

Ss: lt gy, vf gred, sb ang, w srt, calcs & cly cmt, glauc, slty, shy ip, sily sidic ip, no vis por, no shows. tr mntr calc aa.

Sh: m - occly dk gy, carb ip, sily mmca, occly slty, tr sdy, tr glauc.

Sh: m - occly dk gy, sbfis ip, carb ip, sily mmca, tr slty ip / mntr Ss aa.

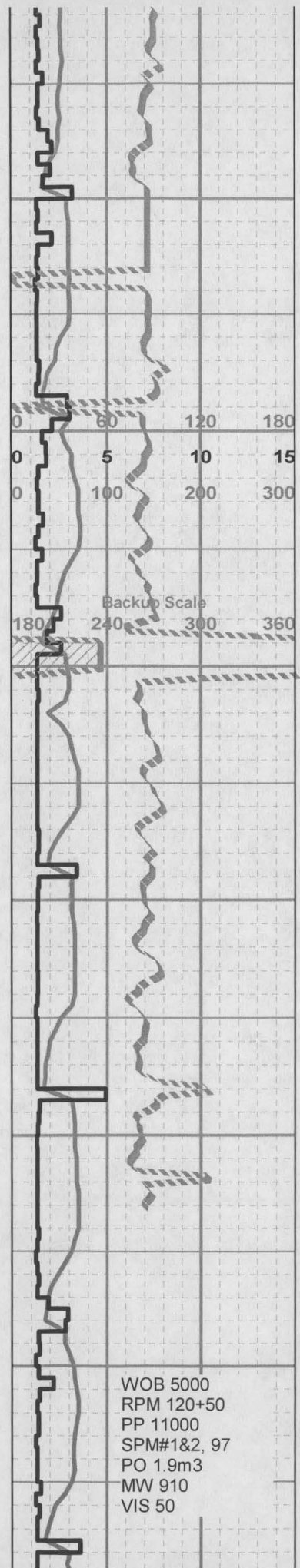
Ss: lt - m gy, vf gred, sb ang, modly w srt, calcs & cly cmt, slty, shy ip, grds to sdy sltst ip, glauc, tr sidic, no vis por, no shows.

Imperial  
(TVD: 962.44)  
(SSL: -704.84)

Sh: m gy, gy gn, sbfis, sily mmca, sily wxy tex.

Sh: m gy, gy gn ip, tr red brn, plty, sbfis, sily mmca, tr slty ip.





990 m

1000 m

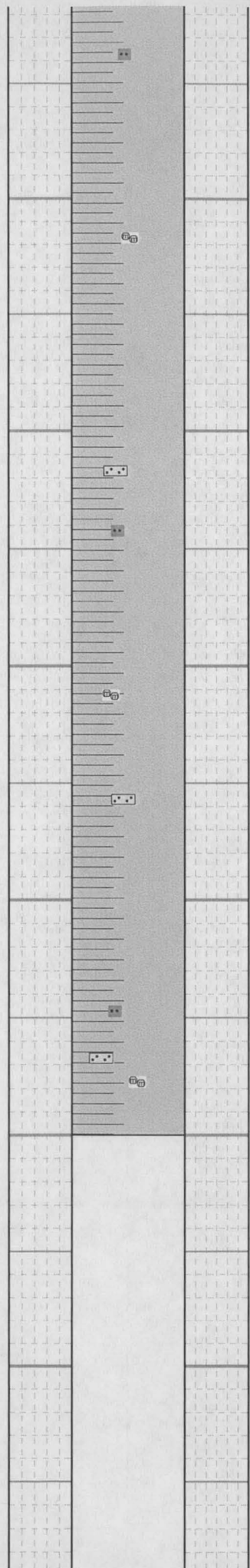
1010 m

1020 m

1030 m

1040 m

WOB 5000  
RPM 120+50  
PP 11000  
SPM#1&2, 97  
PO 1.9m3  
MW 910  
VIS 50



Sh: m gy, gy gn ip, tr red brn, plty, sbfis, slly  
mmca, tr slty ip.

Sh: m gy, gy gn ip, tr red brn, plty, sbfis, slly  
mmca, tr slty ip.

Sh: m gy, gy gn ip, tr red brn, plty, sbfis, slly  
mmca, tr slty ip / occ intbd Ss strgs, lt - m gy, gy  
gn, vf gred, sb ang, w srt, calcs & cly cmt, shy, tt,  
no shows.

Sh: m gy, gy gn ip, tr red brn, plty, sbfis, slly  
mmca, tr slty ip / occ intbd Ss strgs, lt - m gy, gy  
gn, vf gred, sb ang, w srt, calcs & cly cmt, shy, tt,  
no shows.

Sh: m gy, gy gn ip, tr red brn, plty, sbfis, slly  
mmca, tr slty ip / occ 5% intbd Ss strgs, lt - m gy,  
gy gn, vf gred, sb ang, w srt, calcs & cly cmt, shy,  
tt, no shows.

|                                     |  |                                                 |  |
|-------------------------------------|--|-------------------------------------------------|--|
|                                     |  | Lithology Description                           |  |
|                                     |  | Rounding                                        |  |
|                                     |  | Sorting                                         |  |
|                                     |  | Grain Size<br>C snd<br>M snd<br>F snd<br>Vt snd |  |
| Interpreted Lithology               |  |                                                 |  |
| Porosity (%)<br>5<br>10<br>15<br>20 |  |                                                 |  |
| Porosity Type                       |  |                                                 |  |
| Oil Shows                           |  |                                                 |  |
| Depth                               |  |                                                 |  |
| 1050 m                              |  | 100                                             |  |
| Slide - Rotate                      |  |                                                 |  |
| Drilling Progress                   |  |                                                 |  |
| Gamma Ray (gapi)<br>0 60 120 180    |  |                                                 |  |
| Drill Rate (min/m)<br>0 5 10 15     |  |                                                 |  |
| Total Gas (units)<br>0 100 200 300  |  |                                                 |  |
| Date                                |  |                                                 |  |



691606 v2

## Well Information

Operator: **ConocoPhillips Canada Resources Corp.**  
 Well Name: **COPRC Loon Creek O-6**  
 Location: **Unit O, Section 6, Grid 65-10 127-00**  
 UWI: **3000066510127000**  
 Pool / Field: **Undefined / Loon Creek**  
 Well License #: **470**  
 Province / State: **Northwest Territories**  
 Country: **Canada**

## Elevations

Reference: \_\_\_\_\_ Grd \_\_\_\_\_ Ground: **252.4 m**  
 Cut(-) / Fill(+): \_\_\_\_\_ Kelly Bushing: **257.6 m**  
 K.B. to Ground: **5.2 m** Casing Flange: \_\_\_\_\_ m

## Total Depth

| Measurement Type           | Measured Depth | True Vertical Depth |
|----------------------------|----------------|---------------------|
| Drillers TD (Tally)        | m              | m                   |
| Drillers TD (Strap or SLM) | m              | m                   |
| Loggers TD                 | m              | m                   |

## Well Co - Ordinates

|                           | Longitude           | Latitude     | Well Type: Vertical |
|---------------------------|---------------------|--------------|---------------------|
| Surface Co-Ordinates:     | 127 00 30.7 W       | 65 05 51.5 N | NS:<br>EW:          |
| Int. Casing Co-Ordinates: |                     |              | NS:<br>EW:          |
| Bottom Hole Co-Ordinates: |                     |              | NS:<br>EW:          |
| UTM Surface Co-Ordinates: | Northing: 7220618.3 |              | Easting: 593560.14  |

## Drilling Fluid Summary

| Fluid Type          | From  | To    |
|---------------------|-------|-------|
| Spud Mud & Gel Chem | 0 m   | 600 m |
| Invert              | 600 m | m     |

## Casing Summary

| Type    | Hole Size | Casing Size | Landed At |
|---------|-----------|-------------|-----------|
| Surface | 311 mm    | 244.5 mm    | 596.78 m  |

## Well Summary

Spud Date: **Jan 26, 2013 @ 12:00hrs** Contractor: **Beaver Drilling Ltd.**  
 TD Date: \_\_\_\_\_ Rig Release Date: \_\_\_\_\_

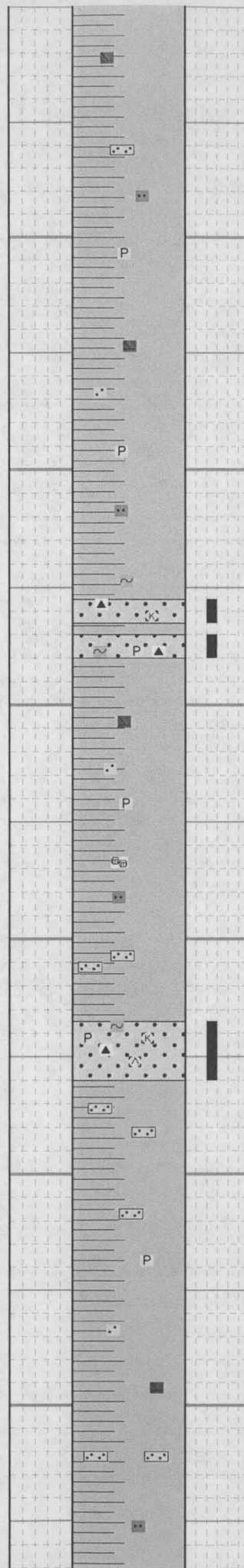
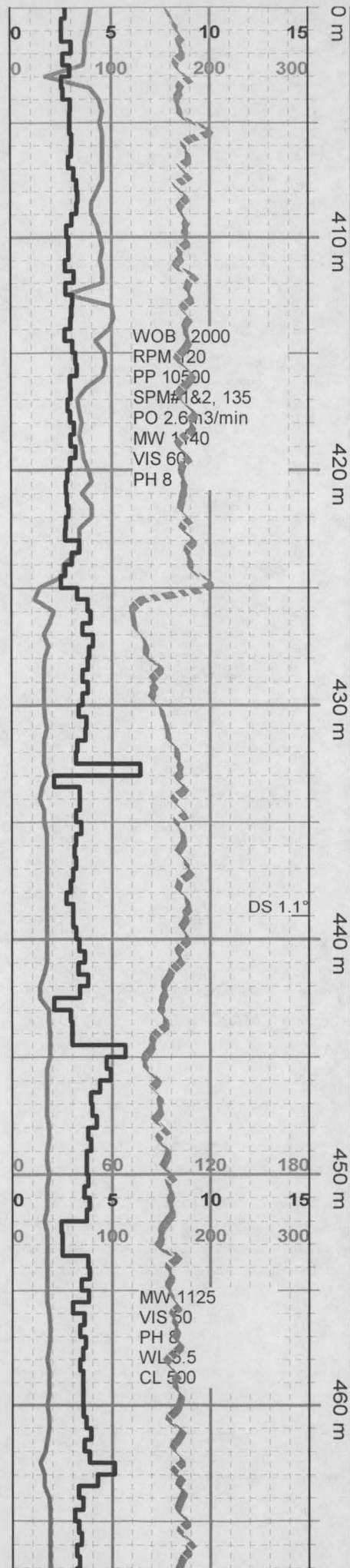
## Work Schedule

| Contractor              | Geologist     | Log Interval | Dates Logged   |
|-------------------------|---------------|--------------|----------------|
| Black Gold Geotechnical | Dave Lawrence | 0 m - m      | Jan 24, 2013 - |

## Remarks

\_\_\_\_\_  
 \_\_\_\_\_





Sh: lt - m gy, mnr sb fis, modly frm, sly mmca,  
mnr lt gy brn sh (sidic), tr slty & sly sdy ip, tr pyric /  
mnr Ss lams aa.

Sh: lt - m gy, mnr sb fis, modly frm, sly mmca,  
mnr lt gy brn sh (sidic), tr slty & sly sdy ip, tr pyric  
/ mnr Ss lams aa.

Sh: lt - m gy, mnr sb fis, modly frm, sly mmca,  
mnr lt gy brn sh (sidic), tr slty & sly sdy ip, tr pyric  
/ mnr Ss lams aa.

Sh: aa, incrg aren, bcmg glauic.

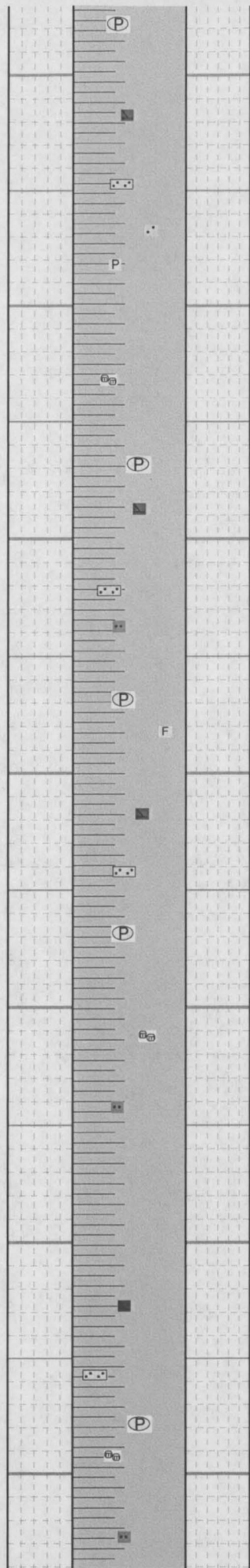
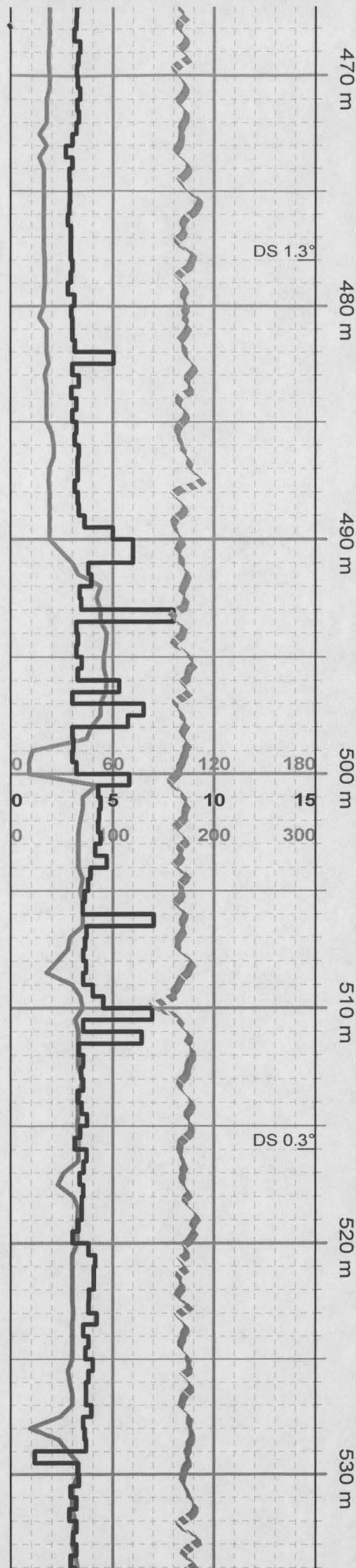
Ss: s&p, u f gred, sb ang, modly w srt, kao mtx,  
sly sils, dk lit grs, p tr glauic, tr pyric, no vis por or  
shows.

Sh: predly m gy, modly frm, sbfis ip, sly mmca,  
mnr lt gy brn sh (sidic), tr slty & sly sdy ip, tr pyric.  
/ 5% Ss strgs aa.

Ss: lt gy, s&p, u f gred, sb ang, modly w srt, kao  
mtx, sly sils, dk lit grs, p tr glauic, tr pyric, no vis  
por or shows.

Sh: predly m gy, modly frm, sbfis ip, sly mmca,  
mnr lt gy brn sh (sidic), tr slty & sly sdy ip, tr pyric.

Sh: predly m gy, modly frm, sbfis ip, sly mmca,



pyr nods.

Sh: predly m gy, modly frm, sbfis ip, sly mmca, mnr lt gy brn sh (sidic), tr slty & tr sdy ip, tr pyric, tr pyr nods / 5% Ss aa.

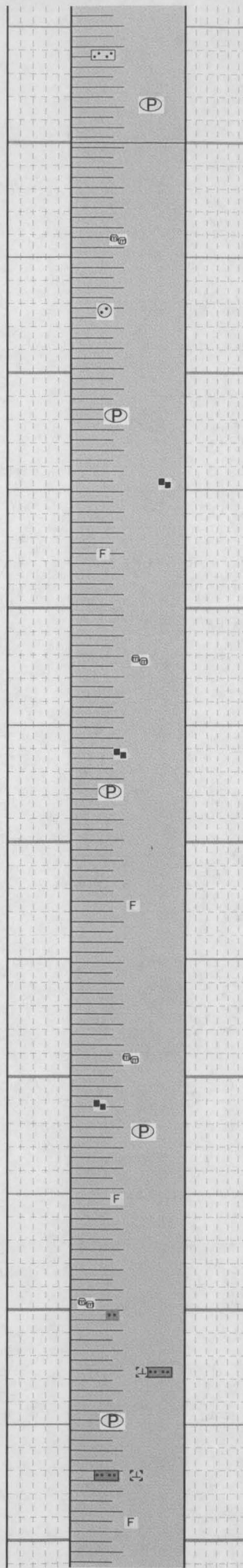
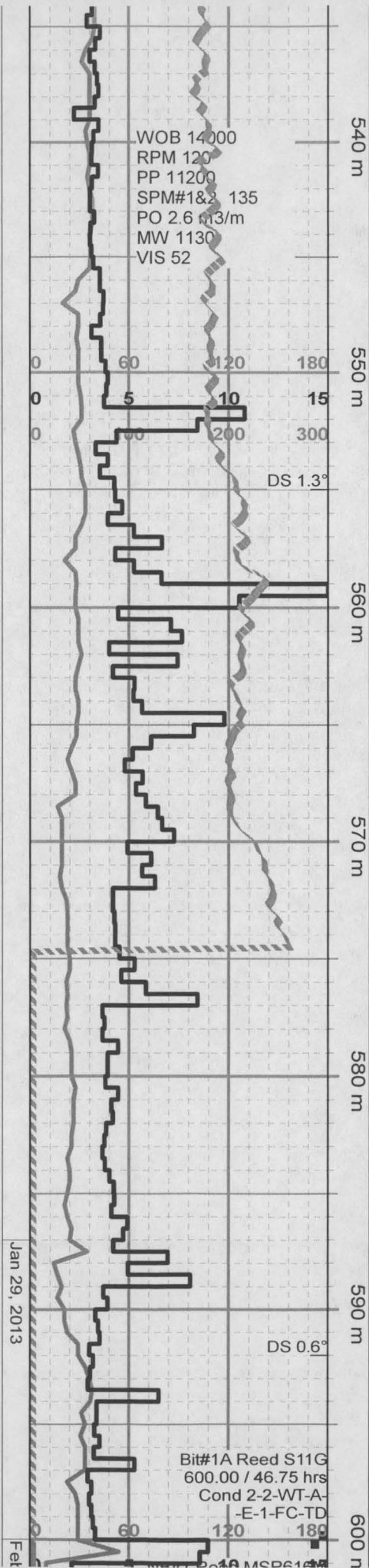
Sh: predly m gy, modly frm, sbfis ip, sly mmca, mnr lt gy brn sh (sidic), tr slty & tr sdy ip, tr pyric, tr pyr nods.

Sh: predly m gy, mnr sbfis, sly mmca, sly slty, pyr nods, mnr gy brn sidic sh / tr Ss lams aa, tr amb.

Sh: predly m gy, mnr sbfis, sly mmca, sly slty, pyr nods, mnr lt gy brn sidic sh / tr Ss lams aa.

Sh: predly m gy, sbfis ip, sly mmca, tr slty, tr pyr nods, mnr lt gy brn sidic sh.

Sh: predly m gy, sbfis ip, slty ip, sly mmca, modly frm, tr pyr nods, tr mnr lt gy brn sidic sh, tr mnr Ss lenses aa.



Sh: predly m gy, sbfis ip, slty ip, slly mmca, modly frm, tr pyr nods, tr mnr Ss lenses aa.

Sh: predly m gy, sbfis ip, slty ip, slly mmca, modly frm, tr pyr nods, tr mnr Ss lenses aa.

Sh: m gy, mnr dk gy, incrg sbfis ip, slly carb, slly mmca, tr pyr, tr inoc.

Sh: m gy, mnr dk gy, incrg sbfis, incrg carb, slly mmca, tr pyr nods, inoc.

Sh: m gy, mnr dk gy, occlly sbfis, carb ip, slly mmca, tr pyr nods, inoc.

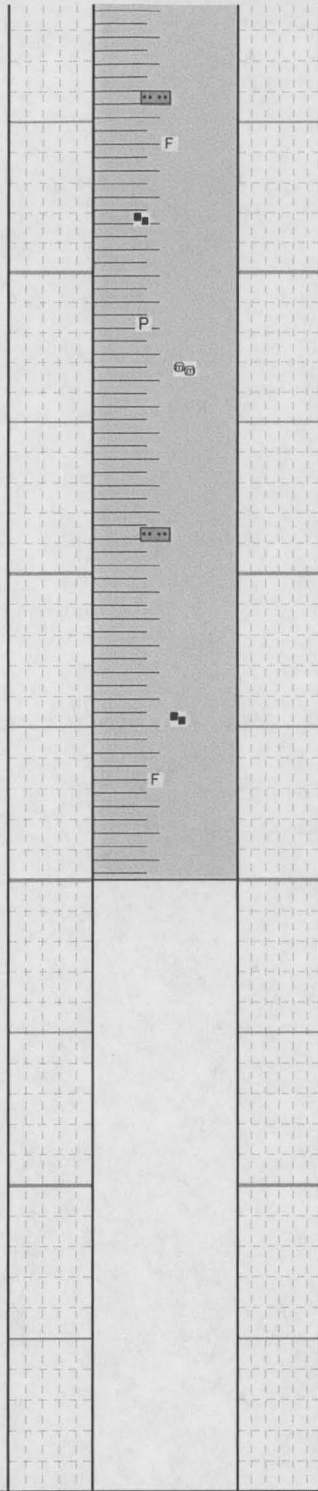
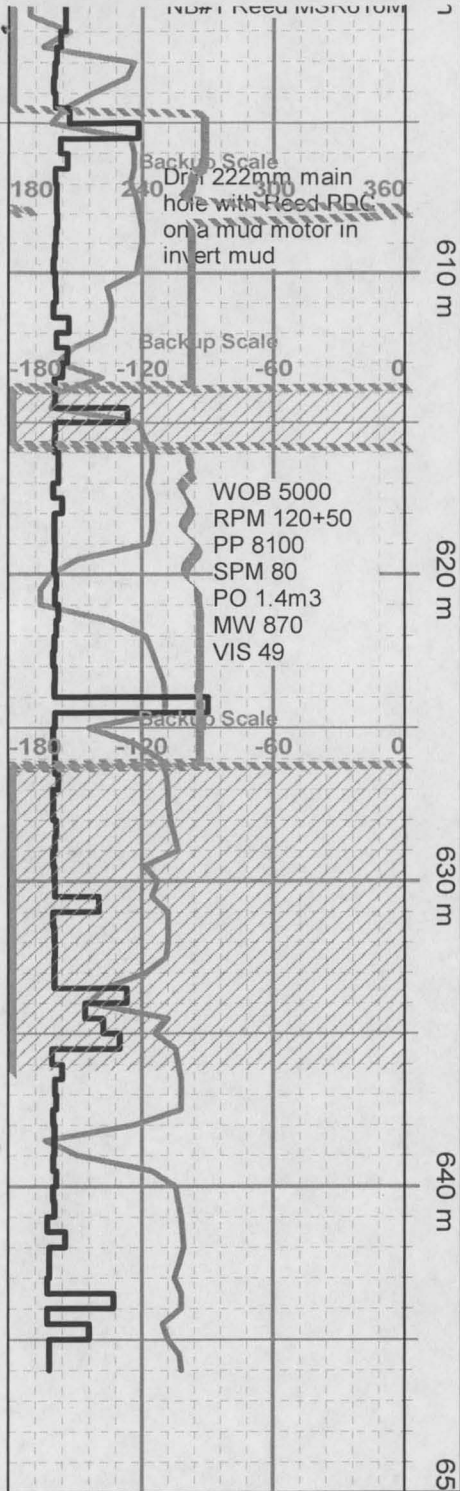
Sh: m gy, occlly dk gy, occlly sbfis, carb ip, mmca, tr pyr nods, inoc.

Sh: m - occlly dk gy, sbfis ip, slly carb ip, occlly mmca, slly slty ip, pyr nods, inoc / tr mnr Sltst lams, lt - m gy, calcs & cly cmt, tr carb specs, sdy ip, no vis por, no shows.

Surface hole TD 600m @ 19:45hrs, Jan 29/13



Feb 2, 2013  
Feb 3, 2013



Sh: m - dk gy, sbfis ip, slly carb ip, occly mmca, slly slty ip / mnr sltst lams, lt - m gy, calcs & cly cmt, tr carb specs, no vis por, no shows.

Sh: m - dk gy, sbfis ip, slly carb ip, occly mmca, slly slty ip / mnr sltst strgs & lams aa.

Sh: m - dk gy, sbfis, slly carb, occly slly mmca, tr pyr, tr inoc., p tr sltst lams aa.

WID 2080

DM 691606

## Well Information

Operator: **ConocoPhillips Canada Resources Corp.**  
 Well Name: **COPRC Loon Creek O-6**  
 Location: **Unit O, Section 6, Grid 65-10 127-00**  
 UWI: **300O066510127000**  
 Pool / Field: **Undefined / Loon Creek**  
 Well License #: **470**  
 Province / State: **Northwest Territories**  
 Country: **Canada**

## Elevations

Reference: \_\_\_\_\_ Grd: \_\_\_\_\_ Ground: **252.4 m**  
 Cut(-) / Fill(+): \_\_\_\_\_ Kelly Bushing: **257.6 m**  
 K.B. to Ground: **5.2 m** Casing Flange: \_\_\_\_\_ m

## Total Depth

| Measurement Type           | Measured Depth | True Vertical Depth |
|----------------------------|----------------|---------------------|
| Drillers TD (Tally)        | m              | m                   |
| Drillers TD (Strap or SLM) | m              | m                   |
| Loggers TD                 | m              | m                   |

## Well Co - Ordinates

|                           | Longitude           | Latitude     | Well Type: Vertical |
|---------------------------|---------------------|--------------|---------------------|
| Surface Co-Ordinates:     | 127 00 30.7 W       | 65 05 51.5 N | NS:<br>EW:          |
| Int. Casing Co-Ordinates: |                     |              | NS:<br>EW:          |
| Bottom Hole Co-Ordinates: |                     |              | NS:<br>EW:          |
| UTM Surface Co-Ordinates: | Northing: 7220618.3 |              | Easting: 593560.14  |

## Drilling Fluid Summary

| Fluid Type          | From  | To    |
|---------------------|-------|-------|
| Spud Mud & Gel Chem | 0 m   | 600 m |
| Invert              | 600 m | m     |

## Casing Summary

| Type | Hole Size | Casing Size | Landed At |
|------|-----------|-------------|-----------|
|      |           |             |           |

## Well Summary

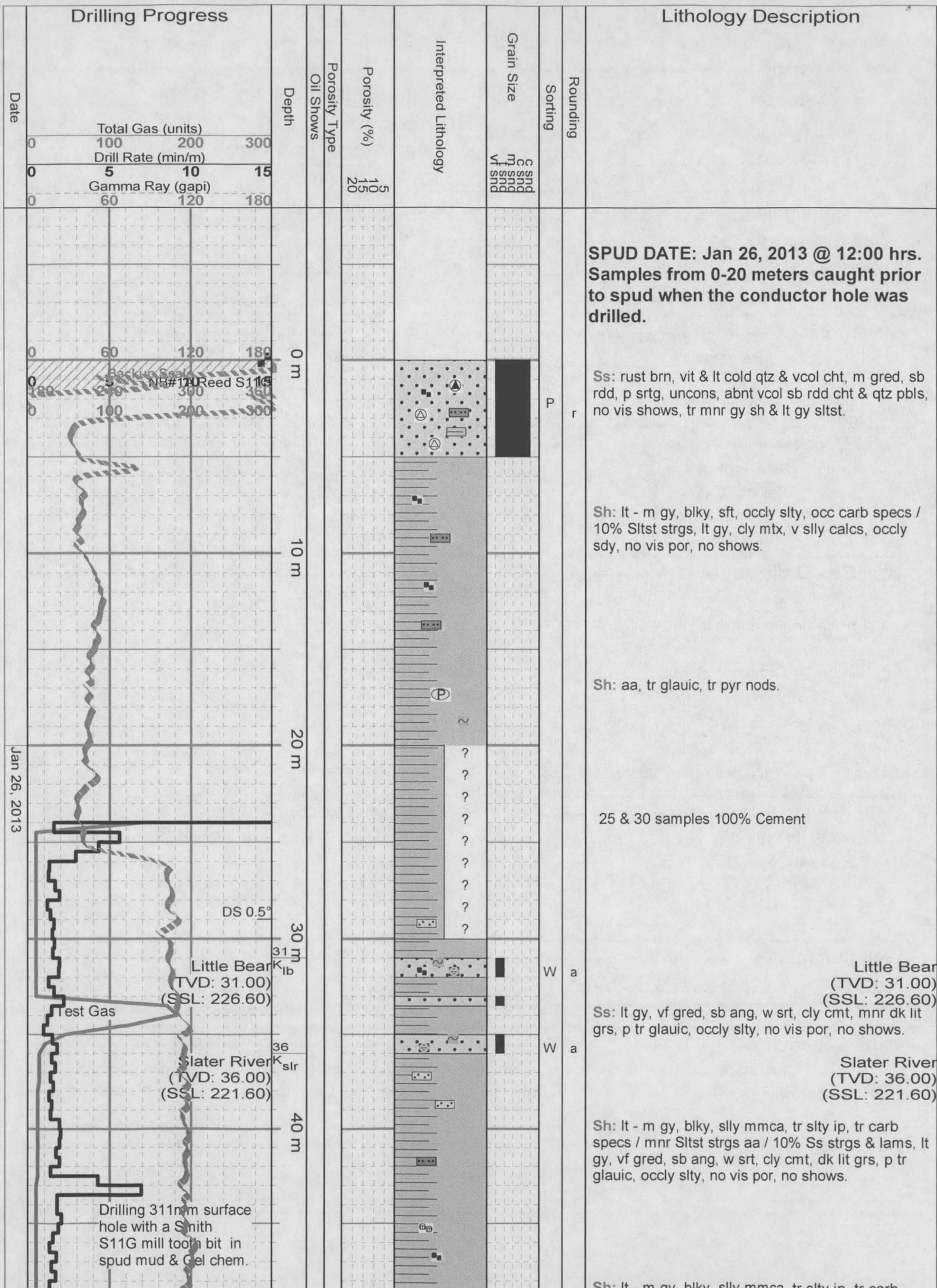
Spud Date: **Jan 26, 2013 @ 12:00hrs** Contractor: **Beaver Drilling Ltd.**  
 TD Date: \_\_\_\_\_ Rig Release Date: \_\_\_\_\_

## Work Schedule

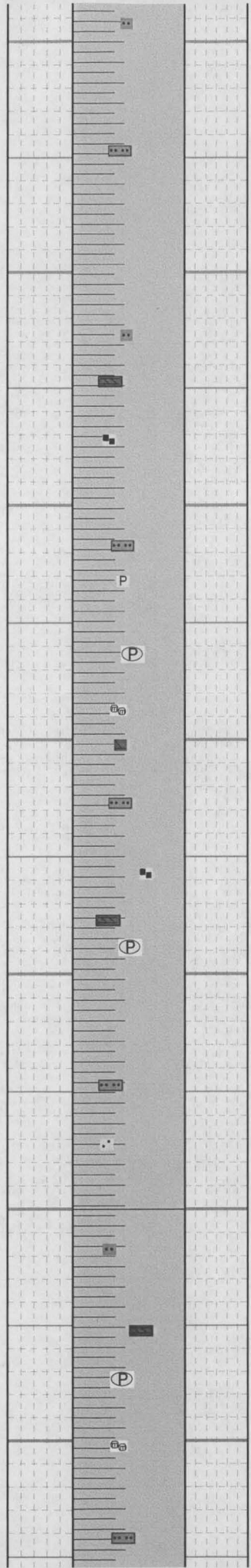
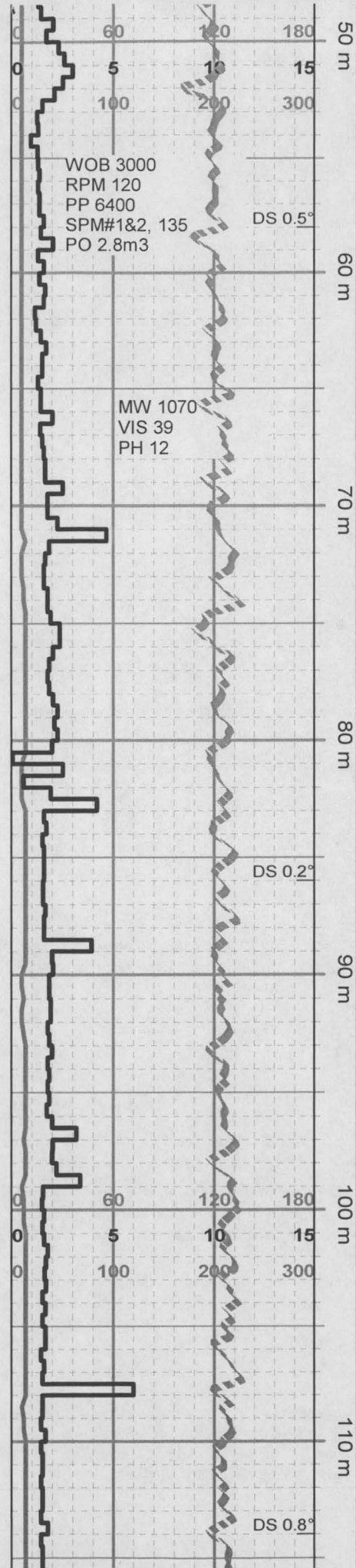
| Contractor              | Geologist     | Log Interval | Dates Logged   |
|-------------------------|---------------|--------------|----------------|
| Black Gold Geotechnical | Dave Lawrence | 0 m - m      | Jan 24, 2013 - |

## Remarks









Sh: lt - m gy, blk, sly mmca, tr sly ip, tr carb specs.

Sh: lt - m gy, blk, sly mmca, tr sly ip, tr carb specs / 10% Sltst strgs aa ip / Sltst lt gy brn, sdy, sidic, shy, tt, no shows.

Sh: lt - m gy, tr gy brn ip, blk, sly mmca, tr sly ip, tr carb specs, sidic ip / tr brn sid frags / mn Sltst strgs aa.

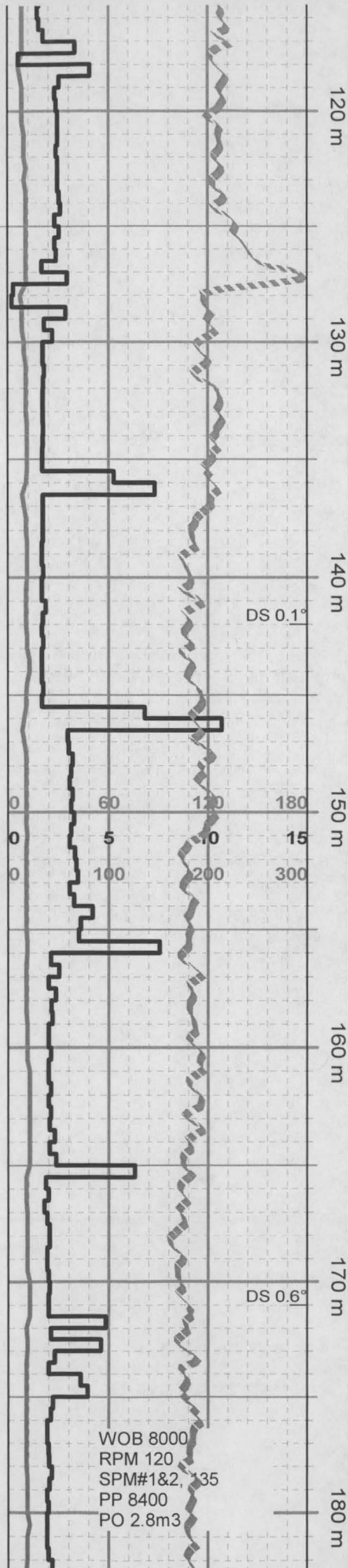
Sh: predly m gy, blk, plty ip, sly mmca, tr sly, sft - frm, mnr dism pyr & tr pyr nods, mn Sltst strgs, lt gy, cly mtx, tr calcs, tr dk lit grs, tt, no vis show.

Sh: lt - m gy, tr gy brn ip, blk, tr plty, sly mmca, tr sly ip, tr carb specs, pyr nods, mn sidic ip / tr brn sid frags / mn Sltst strgs aa.

Sh: lt - m gy, tr gy brn ip, blk, plty ip, sly mmca, tr sly ip, occly sdy, tr carb specs, pyric / occ pyr nods, mn sidic ip / tr brn sid frags / mn Sltst strgs, lt - m gy, cly mtx, sly sdy, tr dk lit grs, tt, no shows.

Sh: lt - m gy, tr gy brn ip, blk, plty ip, sft - sly frm, sly mmca, tr sly ip, tr sdy, tr carb specs, pyric / tr pyr nods, mn sidic ip / tr brn sid frags.

Jan 27, 2013



Sh: lt - m gy, tr gy brn ip, blk, plty ip, modly frm, sly mmca, tr slty ip, tr sdy, tr carb specs, pyric / tr pyr nods, mnr sidic ip / mnr Sltst lams aa.

Sh: predly lt - m gy, blk, tr plty ip, modly frm, sly mmca, tr slty ip, tr carb specs, tr pyric / p tr pyr nods, mnr sidic ip / mnr Sltst lams aa.

Sh: predly m gy, blk, tr plty ip, modly frm, sly mmca, tr pyric / p tr pyr nods.

Sh: predly m gy, blk, tr plty ip, modly frm, sly mmca, occlly slty, pyric / tr pyr nods / mnr Sltst lams lt - m gy, cly cmt, grds to slty sh ip, tt, no shows.

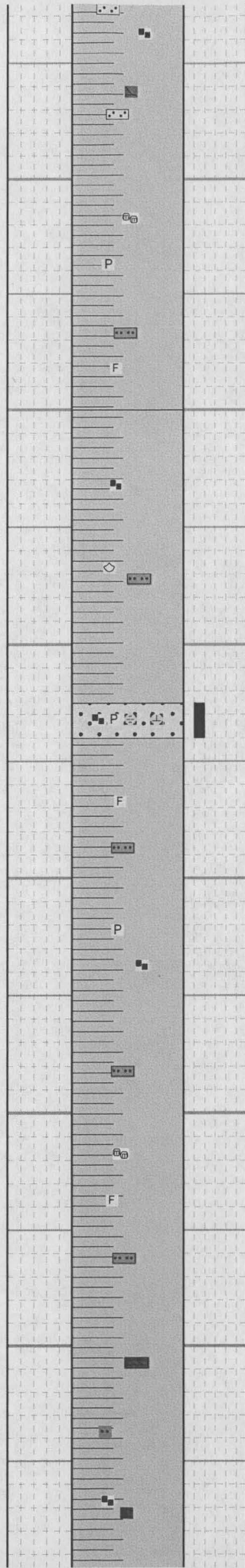
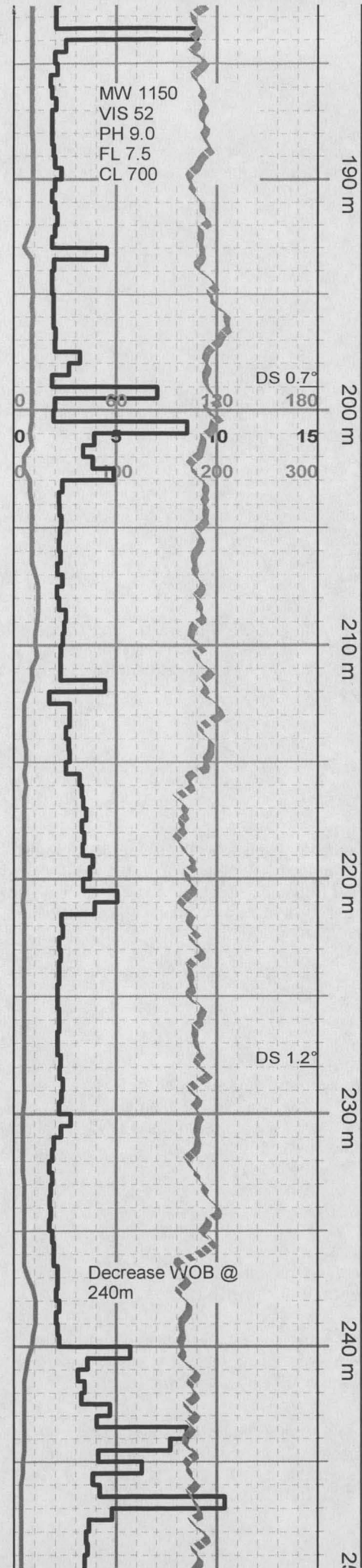
Sh: aa, incrg sidic / Ss strgs 10%, lt gy, vf gred, sb ang, w srt, cly cmt, sly calcs, pyric, grds to sdy sltst ip, tt, no shows.

Sh: aa, Ss strgs incrg to 15%.

Sh: lt - m gy, blk, tr plty ip, modly frm, sly mmca, occlly slty, sdy ip, sidic ip / tr brn sid frags, tr pyric / tr pyr nods / mnr Ss lams aa.

Sh: lt - m gy, blk, plty ip, modly frm, sly mmca, occlly slty, tr sdy ip, sly sidic ip, tr pyric / tr pyr nods / mnr Ss lams lt gy, s&p, l f gred, sb ang, modly w srt, calcs, sly carb, tr glauc, shy ip, tt, no show.





Sh: lt - m gy, blk, plty ip, modly frm, sly mmca, occly slty, tr sdy ip, sly sidic ip, tr pyric / tr pyr nods / 10% Ss lams lt gy, s&p, l f gred, sb ang, modly w srt, calcs, sly carb, tr glauc, shy ip, tt, no show.

Sh: predly Sh aa.

Sh: predly m gy, blk, tr plty, sly mmca, modly frm, tr mn carb specs, tr inoc, tr pyr, mn Sltst strgs aa.

Sh: aa, incrg slty, tr mn shell frags (bracs?), tr sidic / 5% Sltst strgs, m gy, cly mt, pyric, shy, sdy ip, occly grds to vf gred ss ip, tt, no shows.

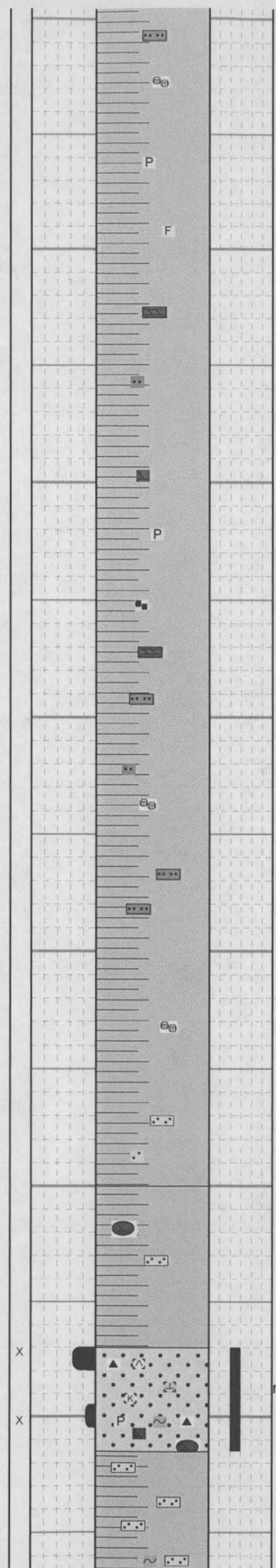
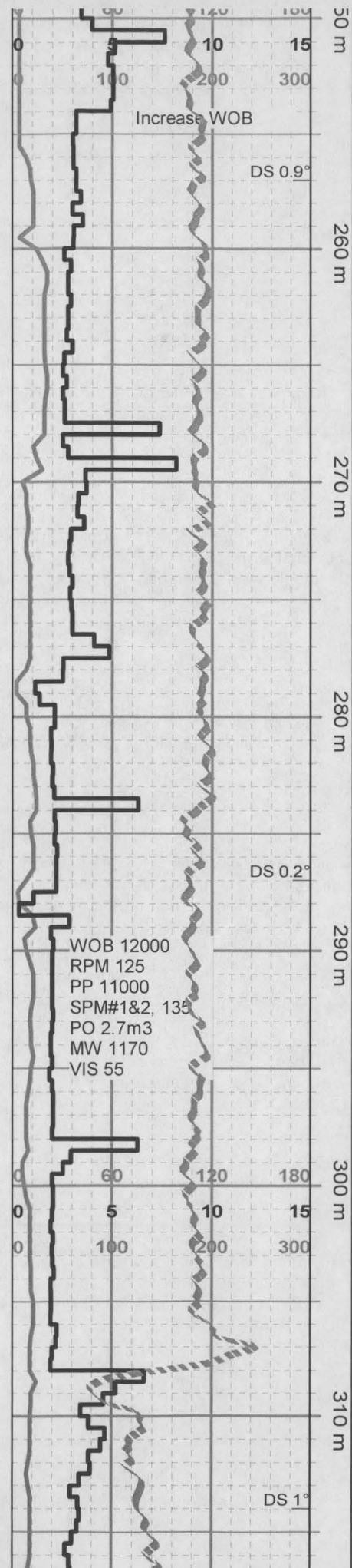
Sh: lt - m gy, vf gred, sb ang, modly w srt, calcs & cly cmt, carb grs, sly pyric, slty, shy, tt, no shows.

Sh: predly m gy, blk, tr plty, sly mmca, modly frm, tr mn carb specs, tr inoc, tr pyr, mn Sltst strgs, lt - m gy, cly & calcs cmt, carb grs, shy, tr pyric, tt, no shows.

Sh: predly m gy, blk, tr plty, sly mmca, modly frm, tr mn carb specs, tr inoc, tr pyr, mn Sltst strgs, lt - m gy, cly & calcs cmt, carb grs, shy, tr pyric, tt, no shows.

Sh: predly m gy, blk, tr plty, sly mmca, modly frm, tr mn carb specs, tr inoc, tr pyr, mn Sltst strgs, lt - m gy, cly & calcs cmt, carb grs, shy, tr pyric, tt, no shows.

Sh: predly m gy, blk, tr plty, sly mmca, modly frm, tr mn carb specs, tr inoc, tr pyr, tr sidic / mn Sltst strgs, lt - m gy, cly & calcs cmt, carb grs, shy, tr pyric, tt, no shows.



Sh: predly m gy, blk, tr pty, sly mmca, sly slty, modly frm, tr mnr carb specs, tr pyric, tr sidic / tr brn sid frags, tr inoc.

Sh: predly m gy, blk, tr pty, sly mmca, sly slty, modly frm, tr mnr carb specs, tr pyric, tr sidic / tr brn sid frags.

Sh: predly m gy, blk, tr pty, sly mmca, modly frm, tr mnr carb specs, tr pyric, sly slty ip, tr sidic / tr brn sid frags / tr mnr Sltst strgs, m gy, cly cmt, tt, no shows.

Sh: predly m gy, blk, tr pty, sly mmca, modly frm, tr mnr carb specs, tr pyric, sly slty ip, tr sidic / tr brn sid frags / 5% Sltst strgs, m gy, cly cmt, sdy, grds to vf gred ss ip, carb specs, tt, no shows.

Sh: predly m gy, mnr sb fis, sly mmca, sly aren, tr dism pyr, tr sid frags / 5% Ss lams, lt gy, vf gred, sb ang, w srt, cly & calcs cmt, sly slty, no vis por, no shows

Sh: predly m gy, mnr sb fis, sly mmca, sly aren, modly frm, tr dism pyr / 5% Ss lams aa.

Ss: s&p, f gred, sb ang, modly w srt, sils & sly calcs cmt, kao mtz ip, occ dk lit grs, p tr pyric, p - fr intgran por 8%, no vis shows.

Ss: lt gy, s&p, f gred, sb ang, modly w srt, sils & sly calcs cmt, kao cmt ip, dk lit grs, tr glauic, tr pyric, sly sidic, tt - p intgran por 4%, no vis shows / occ brn sid frags (nods?)



Sh: predly m gy, mnr sb fis, slly mmca, slly aren, tr pyr, occly sidic / brn sid frags in sample / 10% Ss lams & strgs lt - m gy, lt gy brn, l f gred, sb ang, modly w srt, sils & slly calcs, kao mtx ip, sidic, tr glaucic, pyr, dk lit grs, incrg shy, no vis por or show.

Sh: lt - m gy, modly frm,, tr carb specs, tr inoc, occly cold brn (sidic) / tr brn sid frags, slty & slly aren ip / 5% Ss lams & strgs aa.

Sh: aa, incrg aren / 5% ss strgs & lams aa.

Sh: lt - m gy, modly frm,, tr carb specs, tr inoc, occly cold brn (sidic) / tr bnr sid frags, slty & slly aren ip / 5% Ss lams & strgs aa.

Sh: lt - m gy, modly frm,, tr carb specs, tr inoc, occly lt gy brn (sidic), tr brn sid frags (nods), mnr slty & slly sdy ip, tr pyr nods / tr Sltst lams & lenses, lt gy, cly & slly calcs cmt, no vis por, or show.

Sh: lt - m gy, modly frm,, tr carb specs, tr inoc, occly lt gy brn (sidic), tr brn sid frags (nods), occly slly slty & slly sdy ip, tr pyr nods / tr Sltst lams aa.

Sh: lt - m gy, modly frm,, tr carb specs, tr inoc, occly lt gy brn (sidic), tr brn sid frags (nods), occly slly slty & slly sdy ip, tr pyr nods / tr Sltst lams aa.

Sh: aa / tr mnr coal lenses.

320 m

330 m

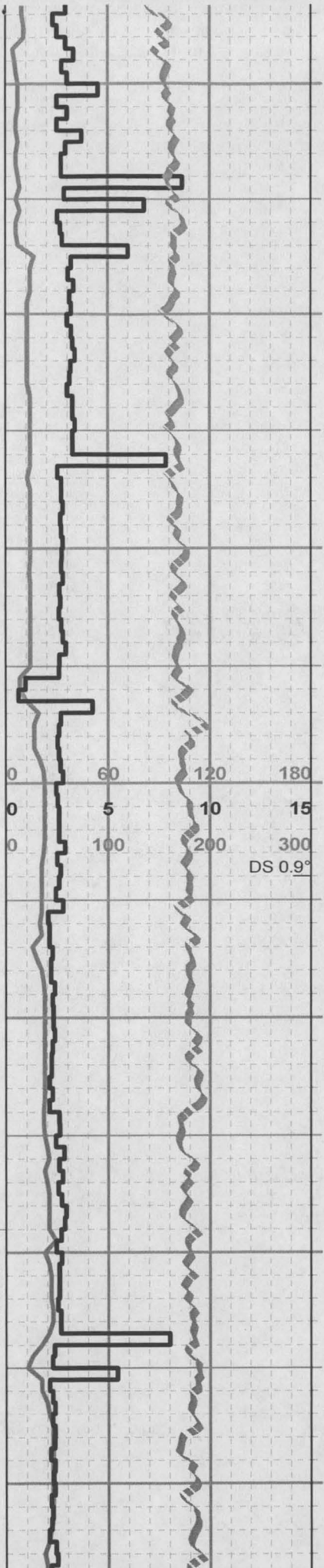
340 m

350 m

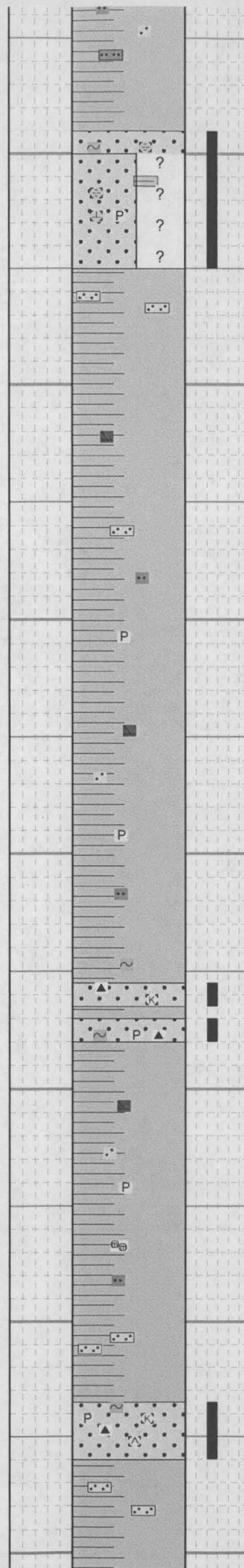
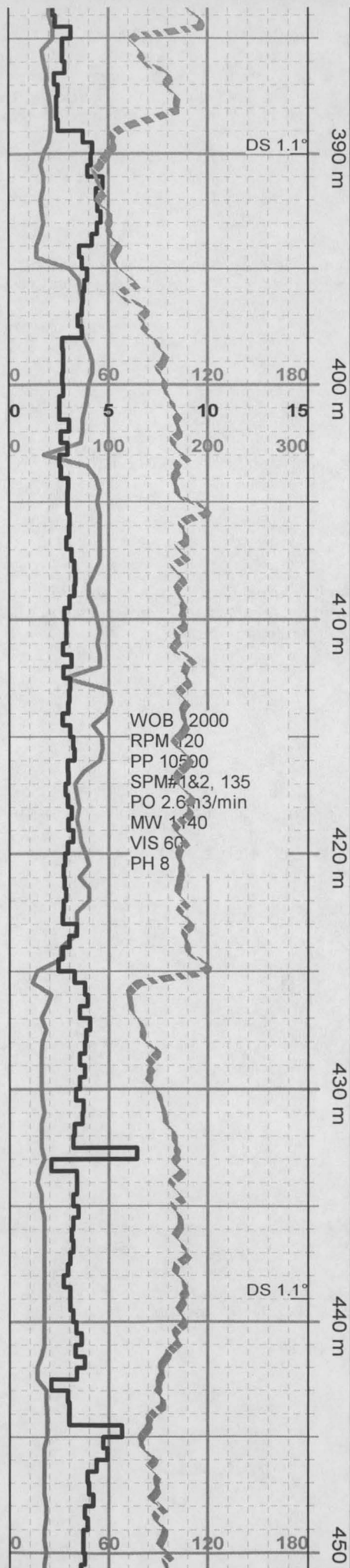
360 m

370 m

380 m



Jan 28, 2013



Sh: lt - m gy, mnr sb tis, modly frm, sily mmca, tr  
inoc, occlly lt gy brn (sidic), tr brn sid frags (nods),  
occlly sily slty & sily sdy ip, tr pyr nods / tr sltst  
lams aa.

**Sh:** aa / 20% Ss lt - m gy, s&p, u f gred, sb ang, m srtg, qtz & cht, cly mtx, sily calcs, tr sils cmt, occ dk lit grs, tr glaucic grs, pyirc, occlly shy / occ m gy sh lenses, no vis por, no shows.

Missed sample @ 395 meters

Sh: lt - m gy, mnr sb fis, modly frm, slly mmca,  
mnr lt gy brn sh (sidic), tr slty & slly sdy ip, tr pyric /  
mnr Ss lams aa.

Sh: lt - m gy, mnr sb fis, modly frm, slly mmca,  
mnr lt gy brn sh (sidic), tr slty & slly sdy ip, tr pyric  
/ mnr Ss lams aa.

Sh: lt - m gy, mnr sb fis, modly frm, slly mmca,  
mnr lt gy brn sh (sidic), tr slty & slly sdy ip, tr pyric  
/ mnr Ss lams aa.

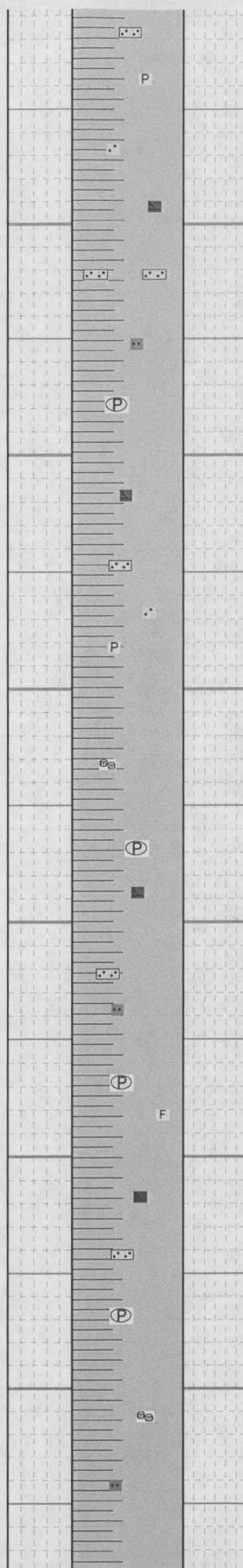
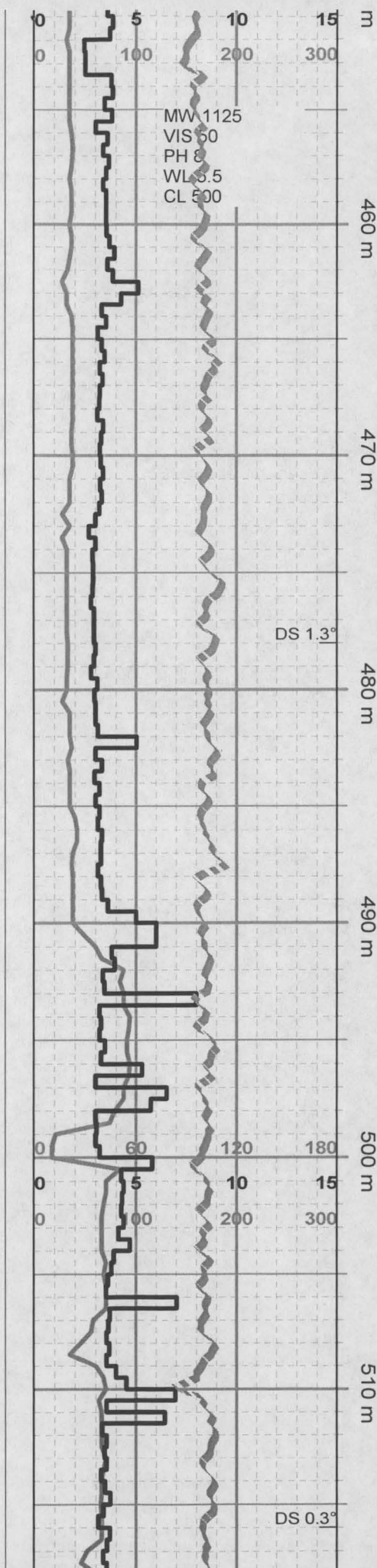
Sh: aa, incrg aren, bcmg glauic.

**Ss:** s&p, u f gred, sb ang, modly w srt, kao mtx,  
sllly sils, dk lit grs, p tr glaucic, tr pyric, no vis por or  
shows.

**Sh:** predly m gy, modly frm, sbfis ip, slly mmca,  
mnr lt gy brn sh (sidic), tr slty & slly sdy ip, tr pyric.  
/ 5% Ss strgs aa.

Ss: lt gy, s&p, u f gred, sb ang, modly w srt, kao  
mtx, slly sils, dk lit grs, p tr glauic, tr pyric, no vis  
por or shows.





Sh: predly m gy, modly frm, sbfis ip, sly mmca, mnr lt gy brn sh (sidic), tr slty & sly sdy ip, tr pyric.

Sh: predly m gy, modly frm, sbfis ip, sly mmca, mnr lt gy brn sh (sidic), tr slty & tr sdy ip, tr pyric, tr pyr nods.

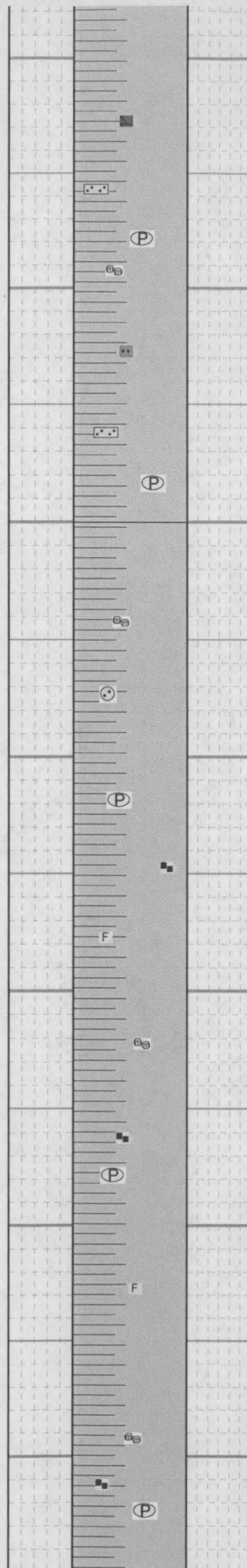
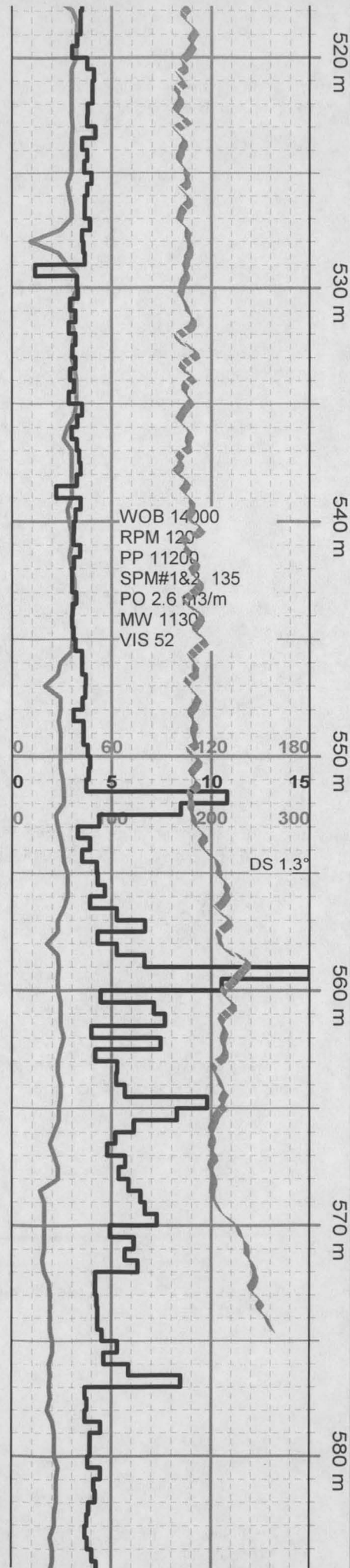
Sh: predly m gy, modly frm, sbfis ip, sly mmca, mnr lt gy brn sh (sidic), tr slty & tr sdy ip, tr pyric, tr pyr nods / 5% Ss aa.

Sh: predly m gy, modly frm, sbfis ip, sly mmca, mnr lt gy brn sh (sidic), tr slty & tr sdy ip, tr pyric, tr pyr nods.

Sh: predly m gy, mnr sbfis, sly mmca, sly slty, pyr nods, mnr gy brn sidic sh / tr Ss lams aa, tr amb.

Sh: predly m gy, mnr sbfis, sly mmca, sly slty, pyr nods, mnr lt gy brn sidic sh / tr Ss lams aa.

Sh: predly m gy, sbfis ip, sly mmca, tr slty, tr pyr nods, mnr lt gy brn sidic sh.



Sh: predly m gy, sbfis ip, slty ip, slly mmca, modly frm, tr pyr nods, tr mnrt gy brn sidic sh, tr mnrt Ss lenses aa.

Sh: predly m gy, sbfis ip, slty ip, slly mmca, modly frm, tr pyr nods, tr mnrt Ss lenses aa.

Sh: predly m gy, sbfis ip, slty ip, slly mmca, modly frm, tr pyr nods, tr mnrt Ss lenses aa.

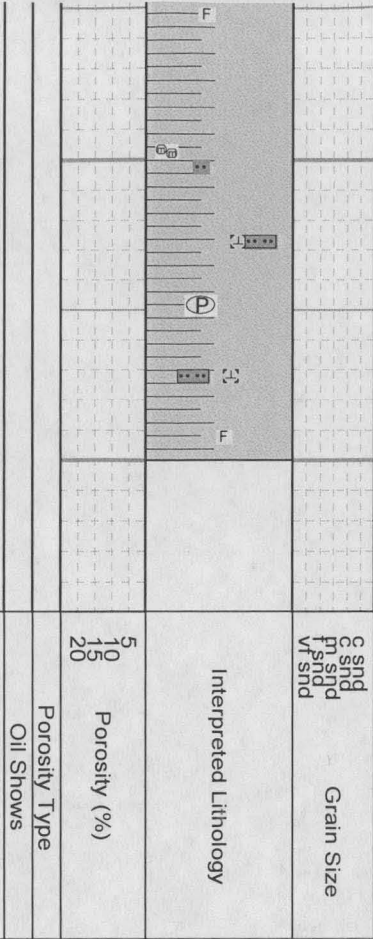
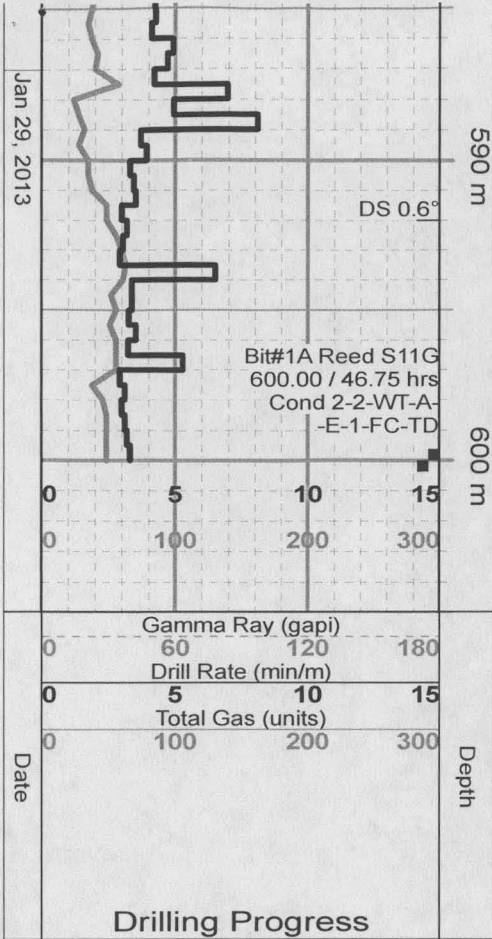
Sh: m gy, mnrt dk gy, incrg sbfis ip, slly carb, slly mmca, tr pyr, tr inoc.

Sh: m gy, mnrt dk gy, incrg sbfis, incrg carb, slly mmca, tr pyr nods, inoc.

Sh: m gy, mnrt dk gy, occlly sbfis, carb ip, slly mmca, tr pyr nods, inoc.

Sh: m gy, occlly dk gy, occlly sbfis, carb ip, mmca,





Sh: m - occlly dk gy, sbfis ip, slly carb ip, occlly mmca, slly slty ip, pyr nods, inoc / tr mnr Sltst lams, lt - m gy, calcs & cly cmt, tr carb specs, sdy ip, no vis por, no shows.

Surface hole TD 600m @ 19:45hrs, Jan 29/13

Lithology Description