

Company	:	Bass Strait Oil Company Ltd
Rig	:	Ocean Patriot

Well	:	ZaneGrey-1
Field	:	ZaneGrey / Gippsland Basin
Country	:	Australia
DOE Number	:	

TION

UTM Easting = 586,049.89 m
UTM Northing = 5,729,856.42 m

Other Services

Permanent Datum	Country	: Australia
	Field	: ZaneGrey / Gippsland Basin
	Location	: Lat: 38° 34' 31.64" South Long: 147° 59' 16.27" East
	Well	: ZaneGrey-1
	Company	: Bass Strait Oil Company Ltd
Major	Rig	: Ocean Patriot

Permanent Datum	: Mean Sea Level	Elevation : 0.00 m
Log Measured From	: Drill Floor	21.50 m Above Permanent Datum
Drilling Measured From	: Drill Floor	MD LOG

Elev. KB 0.00 m

KB	0.00 m
DF	21.50 m
GL	0.00 m
WD	72.50 m

Depth Logged : 94.00 m To 2,772.50 m
Date Logged : 27-Jan-05 To 11-Feb-05

Unit No. : 197

Job No. : AUN0003415248

Total Depth MD	: 2,772.50 m	TD	: 2,420.70 m	Plot Type	: Final
Spud Date	: 27-Jan-05			Plot Date	: 23-Jun-05

Plot Type : Final
Plot Date : 23-Jul-2011

Run No.	Borehole Record (MD)	Size From
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Run No.

Borehole Record (MD)	Size	From
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Tc

1	914.000 mm	94.00 m	129.50 m
2	406.000 mm	129.50 m	1,095.00 m
3	311.150 mm	1,095.00 m	2,103.00 m
4	311.150 mm	2,103.00 m	2,702.00 m
5	311.150 mm	2,702.00 m	2,772.50 m

	Casing	Weight	Size
1	100	100	100
2	100	100	100
3	100	100	100
4	100	100	100
5	100	100	100
6	100	100	100
7	100	100	100
8	100	100	100
9	100	100	100
10	100	100	100
11	100	100	100
12	100	100	100
13	100	100	100
14	100	100	100
15	100	100	100
16	100	100	100
17	100	100	100
18	100	100	100
19	100	100	100
20	100	100	100
21	100	100	100
22	100	100	100
23	100	100	100
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87	100	100	100
88	100	100	100
89	100	100	100
90	100	100	100
91	100	100	100
92	100	100	100
93	100	100	100
94	100	100	100
95	100	100	100
96	100	100	100
97	100	10	

From To

LEGEND

Abbreviations and Symbols

















Drilling Data

BG	Background Gas
BHT	Bottomhole Temp
C	Carbide Test
CB	Core Bit
CG	Connection Gas
CKF	Check For Flow
CO	Circulate Out
DB	Diamond Bit
DC	Depth Correction
DS	Direction Survey
DST	Drillstem Test
FLT	Flowline Temp.
LAT	Logged After Trip
NB	New Bit
NR	No Returns
PDC	Polycrystalline Diamond Compound Bit
PR	Partial Returns
RPM	Revs Per Minute
RRB	Rerun Bit
STG	Short Trip Gas
TB	Turbo Drill
TG	Trip Gas
U	Gas Units
WOB	Weight On Bit





















Mud Data

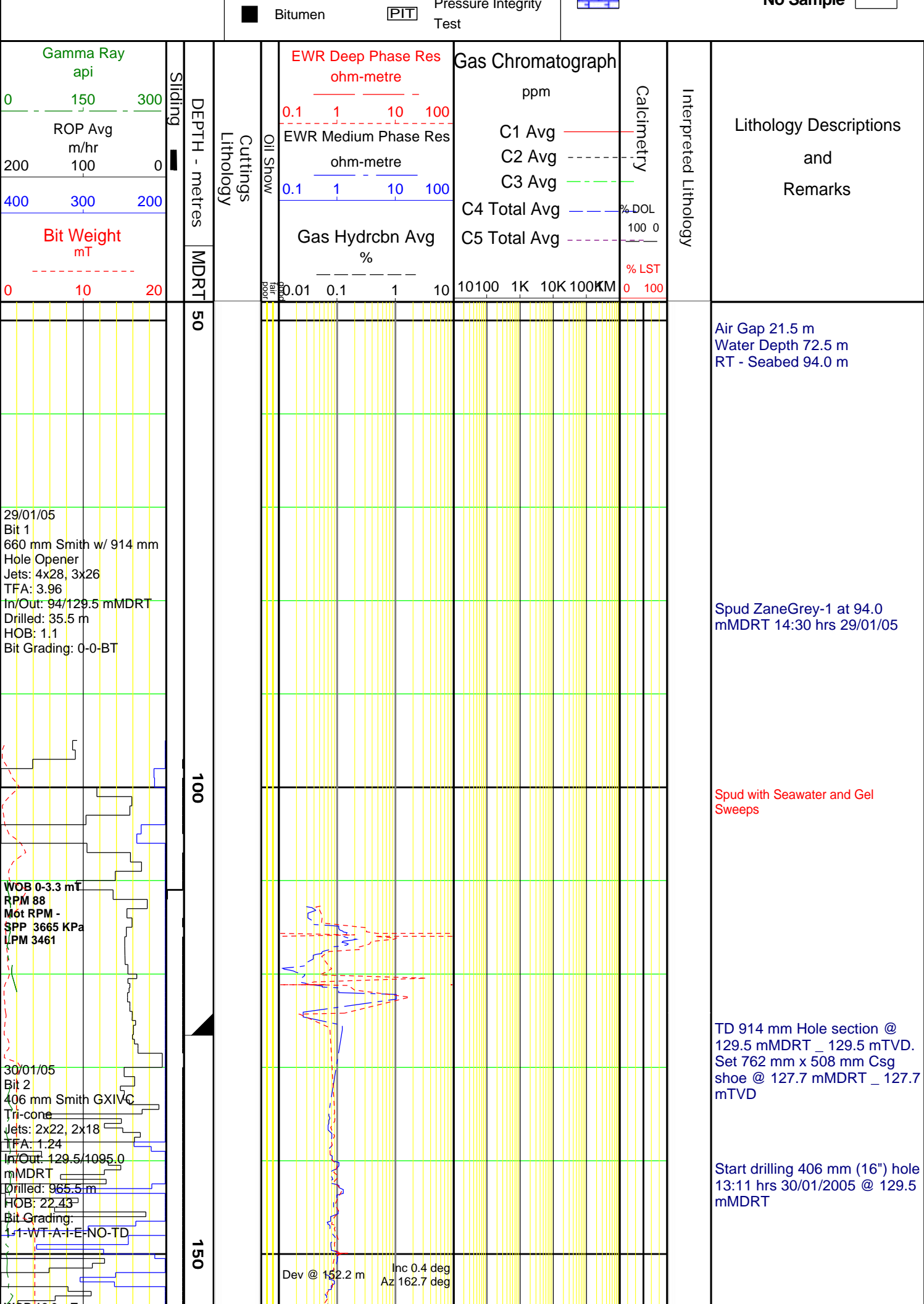
Cl-	Chloride Ion Conc	Rm	Mud Resistivity
FC	Filter Cake	Rmf	Filtrate Resistivity
FL	Filtrate Loss	S	Solids Content
G	Gels	Vis	Funnel Viscosity
pH	Hydrogen Ion Content	MW	Mud Weight
PV	Plastic Viscosity	YP	Yield Point

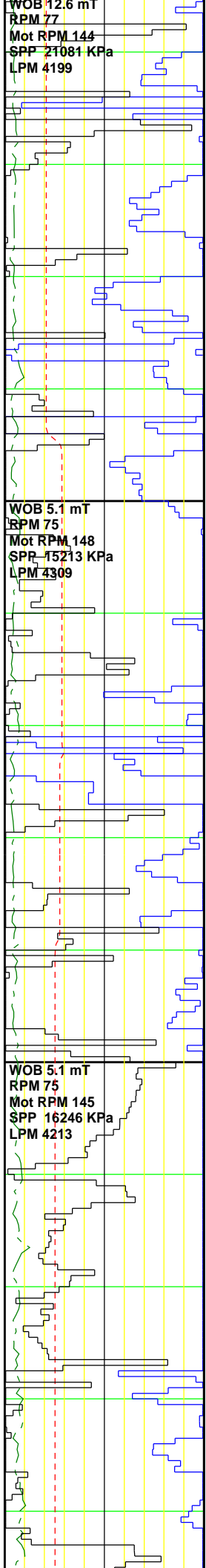
Engineering Data

	Core No.		Water
	DST No.		Salt Water
	Casing Seat		Fresh Water
	Side Wall Core		Hydrocarbons Smell
	Gas Traces		H2S Smell
	Gas		Interval Tester
	Oil Traces		Wireline Log Run
	Oil		Leakoff Test

Lithology Symbols

	Sandstone	Calcsiltite	
	Silty Sandstone	Calcarenite	
	Silt	Mudstone	
	Siltstone	Marl	
	Clay	Glauconitic Sandstone	
	Claystone	Chert	
	Calcareous Claystone	Conglomerate	
	Limestone	Igneous	
	Dolomite	Coal	
	Calclutite	No Sample	





200

250

Dev @ 180.1 m Inc 0.4 deg
Az 187.8 deg

Dev @ 208.3 m Inc 0.5 deg
Az 134.9 deg

Dev @ 236.3 m Inc 0.5 deg
Az 145.4 deg

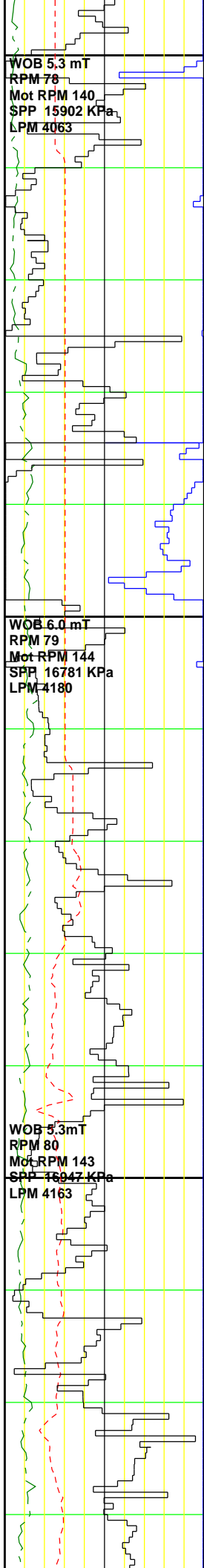
Dev @ 265.1 m Inc 0.5 deg
Az 133.5 deg

Dev @ 291.2 m Inc 0.5 deg
Az 112.3 deg

Geograph wire failure @
138.0 mMDRT

Use draw works encoder to
track depth

Drill with Seawater and Gel Sweeps
Returns to sea floor



300

350

400

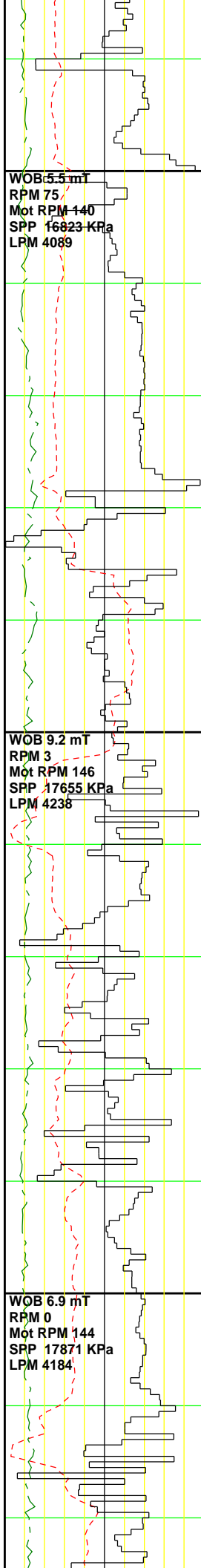
Dev @ 322.8 m Inc 0.3 deg
Az 122.9 deg

Dev @ 351.1 m Inc 0.6 deg
Az 108.0 deg

Dev @ 379.5 m Inc 0.6 deg
Az 107.0 deg

Dev @ 408.3 m Inc 0.6 deg
Az 109.2 deg

Drill with Seawater and Gel Sweeps
Returns to sea floor



450

500

550

Dev @ 436.4 m Inc 0.5 deg
Az 108.4 deg

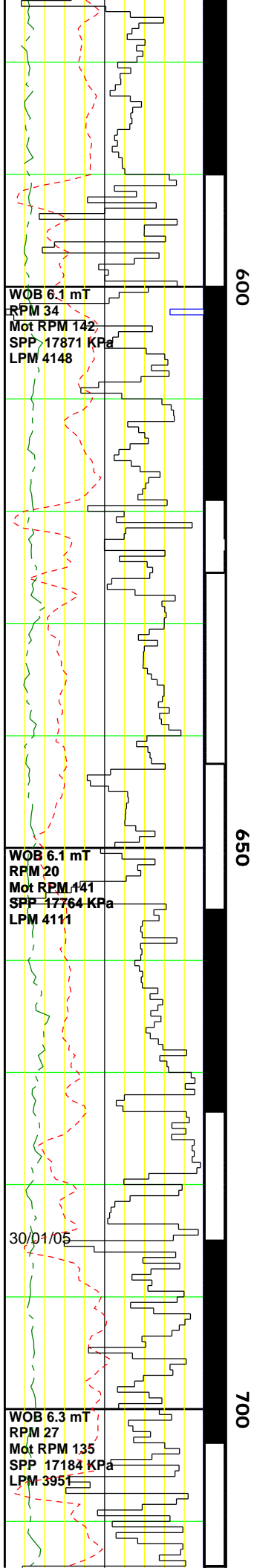
Dev @ 463.0 m Inc 0.6 deg
Az 101.3 deg

Dev @ 493.8 m Inc 1.5 deg
Az 39.2 deg

Dev @ 521.5 m Inc 3.7 deg
Az 26.6 deg

Dev @ 550.7 m Inc 6.4 deg
Az 18.1 deg

Kick off point @ 486.0 mMDRT



600

650

700

Dev @ 578.9 m Inc 9.5 deg
Az 11.8 deg

Dev @ 605.4 m Inc 12.3 deg
Az 11.5 deg

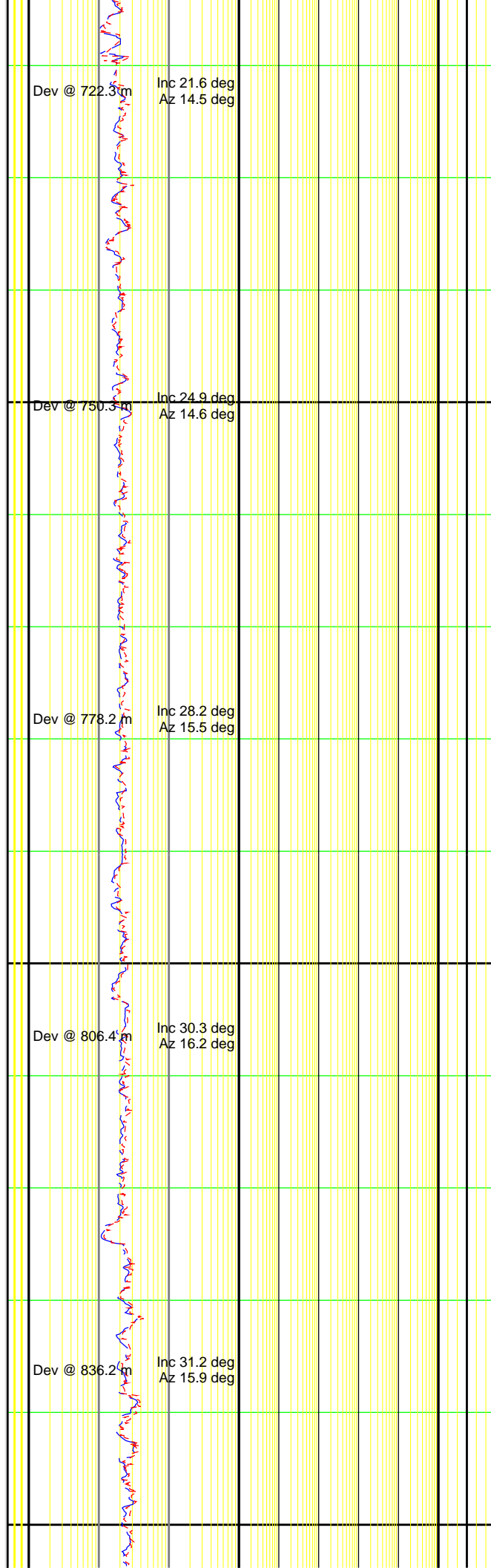
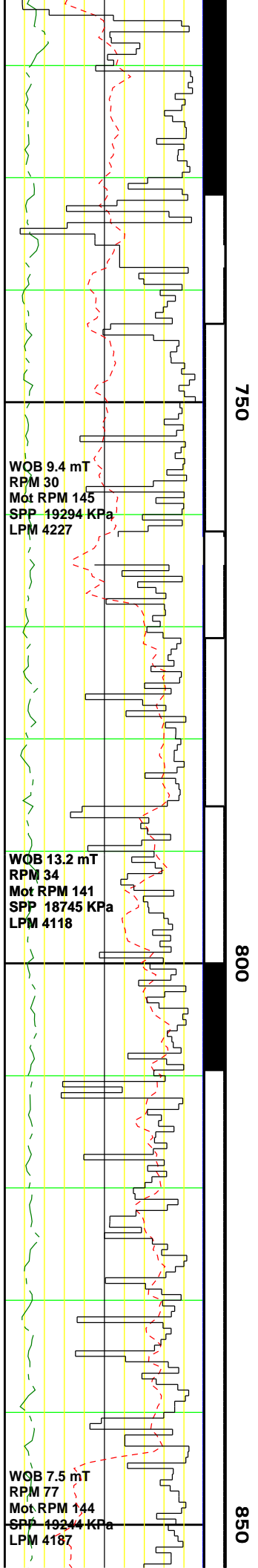
Dev @ 637.3 m Inc 15.1 deg
Az 10.9 deg

Dev @ 663.4 m Inc 17.3 deg
Az 12.1 deg

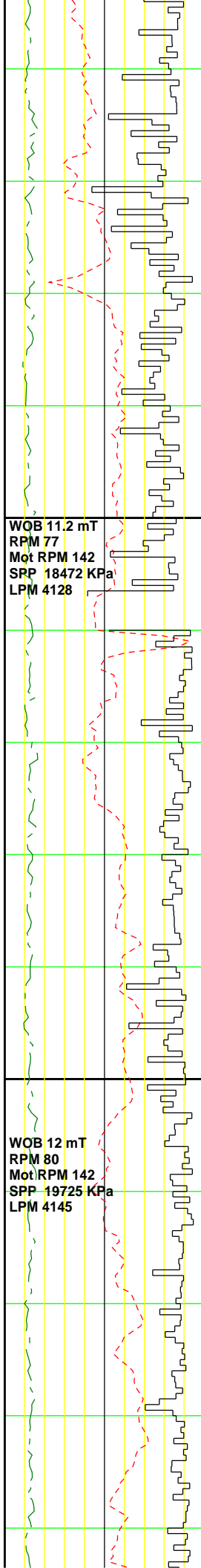
Dev @ 693.7 m Inc 19.0 deg
Az 14.0 deg

Drill with Seawater and Gel Sweeps
Returns to sea floor

Drill with Seawater and Gel Sweeps
Returns to sea floor



Drill with Seawater and Gel Sweeps
Returns to sea floor



WOB 11.2 mT
RPM 77
Mot RPM 142
SPP 18472 KPa
LPM 4128

WOB 12 mT
RPM 80
Mot RPM 142
SPP 19725 KPa
LPM 4145

006

950

Dev @ 864.5 m Inc 31.5 deg
Az 15.9 deg

Dev @ 892.9 m Inc 32.2 deg
Az 16.1 deg

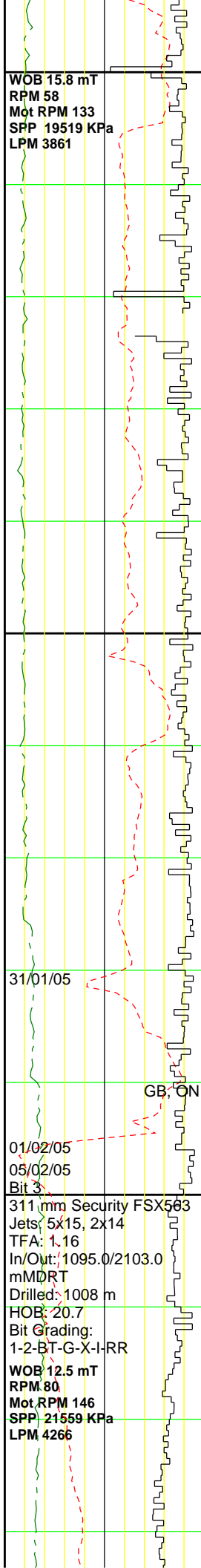
Dev @ 921.5 m Inc 32.7 deg
Az 14.7 deg

Dev @ 950.0 m Inc 32.9 deg
Az 14.7 deg

Dev @ 979.0 m Inc 33.4 deg
Az 14.2 deg

FUNCTION TESTED GAS
SYSTEM - 31/01/05 -
TESTED OK.

Drill with Seawater and Gel Sweeps
Returns to sea floor



1000

1050

1100

Dev @ 1009.2 m Inc 34.0 deg
Az 15.1 deg

Dev @ 1037.2 m Inc 34.4 deg
Az 14.4 deg

CALIBRATE GAS
SYSTEM

Dev @ 1065.8 m Inc 34.7 deg
Az 14.5 deg

Dev @ 1080.7 m Inc 35.0 deg
Az 14.7 deg

CBU MARINE RISER
INSTALLED _ FIRST
RETURNS TO SURFACE.

Dev @ 1123.5 m Inc 34.5 deg
Az 14.4 deg

Drill with Seawater and Gel Sweeps
Returns to sea floor

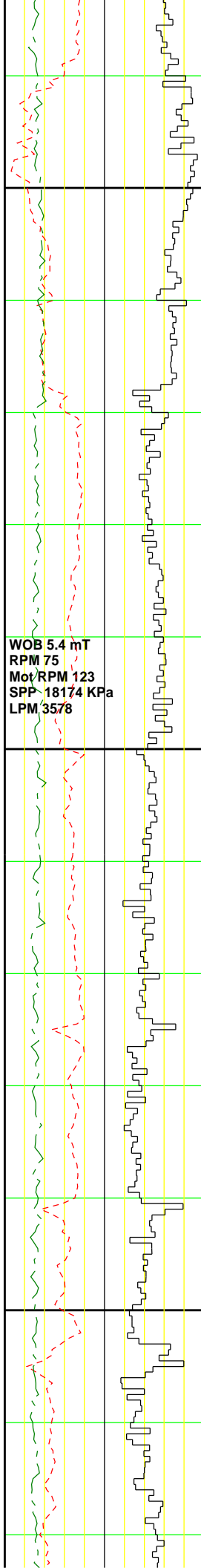
Drill with Seawater and Gel Sweeps
Returns to sea floor

TD 406 mm section at 1095.0
mMDRT _ 1033.4 mTVD.
Set 340 mm casing at 1090.6
mMDRT _ 1029.9 mTVD,

Start drilling 311 mm (12 1/4")
hole 23:30 hrs 04/02/2005 @
1095.0 mMDRT
FIT @ 1090.6 mMDRT = 1.58
sg (13.2 ppg)

1095.0 - 1200.0 mMDRT
Interbedded Argillaceous Calcilutite and
Calcsiltite.

CALCILUTITE: argill, wh-lt gy, lt brn gy, v
sft-sft, amor, micr, (65-75%) & arg
(25-35%) mtx, tr foss, tr-20% calcsilt, tr
vf dk gn glauc grns.
CALCSILTITE: lt-m gy, lt brn gy, sft-frn,
calc silt w/ tr-10% vf calc sand, micr mtx,
grd to CALCILUTITE.
CALCARENITE: lt gy, pl yelsh brn to pl
grsh yel, frm-hd, pred f-vf, part recryst,
tr-20% clay mtx, tr foss frags (shl), tr vf
dk gn glauc grns.



WOB 5.4 mT
RPM 75
Mot/RPM 123
SPP 18174 KPa
LPM 3578

1150

1200

1250

Dev @ 1150.7 m Inc 34.2 deg
Az 14.3 deg

Dev @ 1178.2 m Inc 33.7 deg
Az 14.5 deg

FUNCTION TESTED GAS
SYSTEM - 04/02/05 -
TESTED OK.

Dev @ 1208.0 m Inc 33.5 deg
Az 14.7 deg

Dev @ 1237.0 m Inc 33.6 deg
Az 14.4 deg

Dev @ 1265.6 m Inc 34.2 deg
Az 14.6 deg

Gas System on Blow Back
to clear moisture from
lines

Displace hole to new mud system -
KCI-Ildcap-Glycol
MW: 1.20 sg
FV: 55
PV/YP 24/34
Gels: 6/13
O/W/S: 0/91/9
Cl: 36000 mg/l

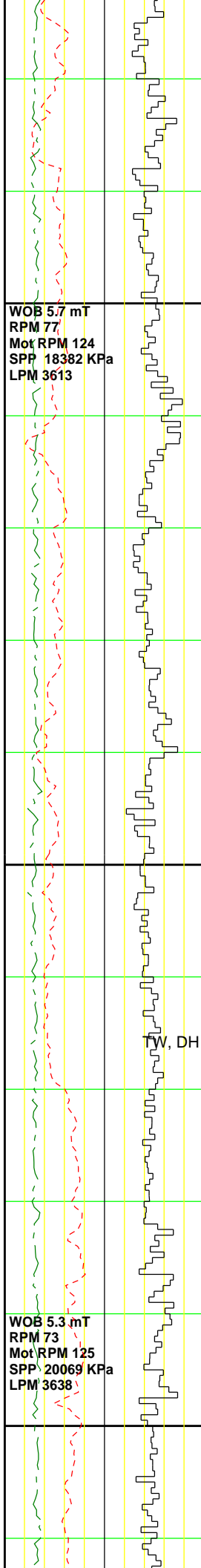
CALCISILTITE: lt-m gy, m dk gy, frm-hd,
blky, calc silt, micr (10-20%) & arg mtx
(5-10%), grd to CALCILUTITE, tr vf dk
gn glauc grns.
ARGILLACEOUS CALCILUTITE: lt-m
gy,lt brnsh gy, sft-frm, hd i/p, blky, micr
(65-80%) & arg (20-35%) mtx, tr-30%
CALCILUTITE grd to CALCISILTITE i/p,
tr vf dk gn glauc grns i/p.

1200.0 - 1250.0 mMDRT
Interbedded Argillaceous Calcilutite and
Calcisiltite with minor Calcarenite.

ARGILLACEOUS CALCILUTITE: lt-m
gy,lt brnsh gy, sft-frm, hd i/p, blky, micr
(65-80%) & arg (20-35%) mtx, tr-30%
CALCILUTITE grd to CALCISILTITE i/p,
tr vf dk gn glauc grns i/p.
CALCISILTITE: lt-m gy, lt gy brn,
frm-hd, blky, calc silt, micr (10-20%) &
arg mtx (5-10%), grd to CALCILUTITE
i/p, tr vf dk gn glauc grns.
CALCARENITE: lt gy, pl yel brn i/p, frm -
hd, vfU - fL, 10-15% calc cmt, tr-5% cly
mtx, tr-15% f glauc grns, tr shl frags &
lge Forams.

1250.0 - 1320.0 mMDRT
Interbedded Argillaceous Calcilutite and
Calcisiltite.

CALCISILTITE: lt-m gy, m dk gy, frm-hd,
blky, calc silt, micr (10-20%) & arg mtx
(5-10%), grd to CALCILUTITE, tr vf dk
gn glauc grns.
ARGILLACEOUS CALCILUTITE: wh, lt -
m gy, lt brnsh gy, sft-frm, blky, micr
(65-70%) & arg (20-35%) mtx, tr-30%
CALCILUTITE grd to CALCISILTITE i/p,
tr vf dk gn glauc grns i/p.



WOB 5.7 mT
RPM 77
Mot RPM 124
SPP 18382 KPa
LPM 3613

WOB 5.3 mT
RPM 73
Mot RPM 125
SPP 20069 KPa
LPM 3638

W, DH

1300

1350

1400

Dev @ 1294.5 m Inc 34.7 deg
Az 13.9 deg

Dev @ 1323.5 m Inc 34.5 deg
Az 14.4 deg

Dev @ 1353.0 m Inc 34.4 deg
Az 13.9 deg

Dev @ 1380.9 m Inc 34.3 deg
Az 13.8 deg

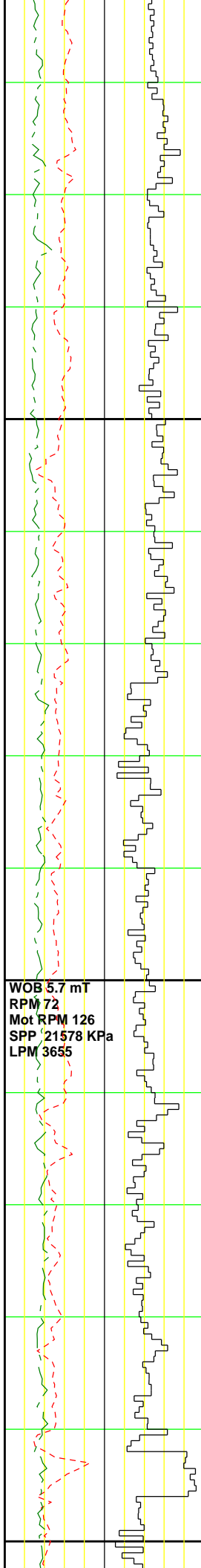
Dev @ 1409.7 m Inc 34.2 deg
Az 13.3 deg

CALCISILTITE: lt - m gy, frm, blk, calc silt, micr (10-20%) & arg mtx (5-20%), grd to & f interbed w/ CALCILUTITE, tr vf dk gn glauc grns.
ARGILLACEOUS CALCILUTITE: wh, lt-m gy, sft, disp - frm, blk, micr (60-80%) & arg (20-40%) mtx, tr-20% CALCILUTITE grd to CALCISILTITE i/p, tr vf dk gn glauc grns i/p.

1320.0 - 1560.0 mMDRT
Interbedded Argillaceous Calcilutite and Calcisiltite with minor Calcarenite.

CALCISILTITE: lt-m gy, frm-hd, loc sft, blk-sbbk, calc silt, micr (10-20%) & arg mtx (20-35%), grd to CALCILUTITE i/p, tr vf dk gn glauc grns.
CALCILUTITE: wh, v lt gy, grd to m lt gy i/p, sft, pred cmbly, micr (50-60%) & arg (5-10%) mtx, com grd to CALCISILTITE i/p, loc tr vf dk gn glauc grns i/p, iso amber xls.

CALCISILTITE: lt gy-lt m gy, i/p lt olv gy, sft-frm, loc mod hd, cmbly, micr (5-10%) & arg mtx (30-40%), grd CALCILUTITE i/p, tr vf dk gn glauc grns, tr f carb flks.
CALCILUTITE: wh, v lt gy, sft, pred cmbly, micr (60-70%) & sli arg (5-10%) mtx, loc tr vf blk carb flks.



1450

1500

1550

WOB 5.7 mT
RPM 72
Mot RPM 126
SPP 21578 KPa
LPM 3655

Dev @ 1438.1 m Inc 34.5 deg
Az 13.6 deg

Dev @ 1466.4 m Inc 34.4 deg
Az 12.8 deg

Dev @ 1494.7 m Inc 34.4 deg
Az 12.3 deg

Dev @ 1523.4 m Inc 34.2 deg
Az 12.0 deg

Dev @ 1551.9 m Inc 34.0 deg
Az 12.1 deg

CALCISILTITE: lt gy-lt m gy, lt olv gy-olv gy, sft-frm, loc mod hd, cmbly, micr (5-10%) & arg mtx (35-45%), grd to CALCARENITE i/p, tr vf dk gn glauc grns, tr f carb flks, tr - rr foss frags & Forams, tr calc xls.
CALCILUTITE: wh, v lt gy, sft, pred cmbly, micr (40-50%) & sli arg (15-25%) mtx, loc tr vf blk carb flks, rr-com glauc stng.

CALCISILTITE: v lt gy-lt m gy, lt olv gy-olv gy, sft-frm, loc mod hd, cmbly, micr (5-10%) & arg mtx (30-40%), less glauc, tr vf dk gn glauc grns, tr f carb flks, tr-rr foss frags & forams, iso lt pnk stn mU qtz grns.
CALCILUTITE: off wh, v lt gy, sft, pred cmbly, micr (20-30%) & sli arg (15-25%) mtx, loc tr vf blk carb flks, tr glauc stng.

CALCISILTITE: lt olv gy-olv gy, sft-frm, blk-ang frags, mnr arg mtx (5-10%), grd to CALCARENITE, tr vf dk gn glauc, tr f carb flks, tr - rr foss frags & Forams.
CALCILUTITE: off wh, lt gy, sft, inc homogenous, cmbly, micr (75-85%) & sli arg (5 - 10%) mtx, calcisilt (tr-5%) grns i/p, occ tr vf blk carb flks, tr glauc stng.
CALCARENITE: pl yelsh brn, lt gy, lt olv gy, frm-hd, partly recryst, tr shell frags & Forams
SANDSTONE (TR): isolated lt pnk stnd qtz grns, lse, m-crs, ang-sbrnd.

MW: 1.10 sg
EV: 57

WOB 1-3.4 mT
RPM 66
Mot RPM 139
SPP 13041 KPa
LPM 4038

WOB 4.3 mT
RPM 67
Mot RPM 125
SPP 21106 KPa
LPM 3643

1600

1650

Dev @ 1580.9 m Inc 34.3 deg
Az 13.3 deg

Dev @ 1609.6 m Inc 34.7 deg
Az 16.1 deg

Dev @ 1638.6 m Inc 34.3 deg
Az 16.7 deg

Dev @ 1667.5 m Inc 34.0 deg
Az 16.1 deg

Blockage to
Chromatograph

RV: 37
PV/YP 15/32
Gels: 12/19
O/W/S: 0/91/9
Cl: 30000 mg/l

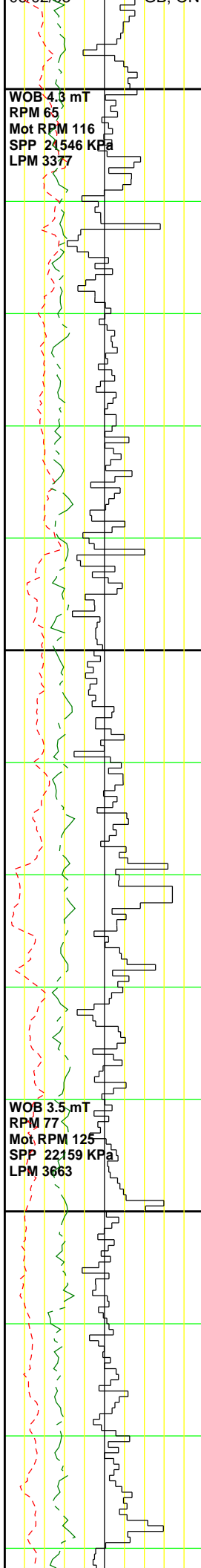
1560.0 - 1691.0 mMDRT
Interbedded Calcareous Claystone and
Marl with minor Calcilutite and
Calcisiltite.

MARL: v lt-lt m gy, v sft-sft, disp i/p,
amor, cly mtx (35-45%), grd to ARG
CALCILUTITE i/p, tr-5% calcisilt, tr vf blk
carb flks stng, tr vf dk gn dissem glauc,
tr foss frags & Forams.
CALCISILTITE: lt bnsh gy-brn gy, lt olv
gy-olv gy, sft-frm, blk-ang frags, mnr
arg mtx (5-10%), grd to CALCARENITE,
tr vf dk gn glauc, tr f carb flks, tr-rr foss
frags & Forams, tr crs pyr nod.

CALCILUTITE: off wh, lt gy, sft, blk,
pty i/p, homogenous, micr (40-85%) &
inc arg (15-40%) mtx, grd to ARG
CALCILUTITE & MARL, calcisilt
(tr-10%) grns i/p, tr vf blk carb flks.
CALCARENITE: pl yelsh bn, lt gy, lt olv
gy, frm-hd, partly recryst, tr shell frags &
Forams.
SANDSTONE (TR): isolated lt pnk stnd
qtz grns, lse, m-crs, ang-sbrnd.

CALCAREOUS CLAYSTONE: lt-m lt gy,
sft-mod frm, sbbly-biky, 20-35% calc
mtx, tr calcisilt, tr carb spks, tr dissem
pyr, nil-tr vf glauc grns.
MARL: lt-m dk gy, v sft-sft, disp i/p,
amor, cly mtx (35-45%), grd to ARG
CALCILUTITE i/p, tr calcisilt i/p, nil-tr vf
dk gn dissem glauc, tr foss frags &
Forams.

Run Carbide @ 1655.0
mMDRT
Theor Ann Vol = 713 bbls
Act Ann Vol = 726 bbls
Ave hole dia = 12.54"



1700

1750

1800

Dev @ 1696.0 m Inc 34.2 deg
Az 16.4 deg

determine moisture
contamination in
Chromatograph

Dev @ 1724.7 m Inc 33.8 deg
Az 16.0 deg

Work on Chromatograph -
flushing with air to rid
moisture.
Total Gas readings still
maintained.

Attempt to change out
faulty Chromatograph
with spare
Chromatograph.

Dev @ 1753.0 m Inc 34.2 deg
Az 16.9 deg

Dev @ 1782.8 m Inc 34.1 deg
Az 16.5 deg

Spare Chromatograph
powered up, cycling to
correct temperature before
completing full calibration.

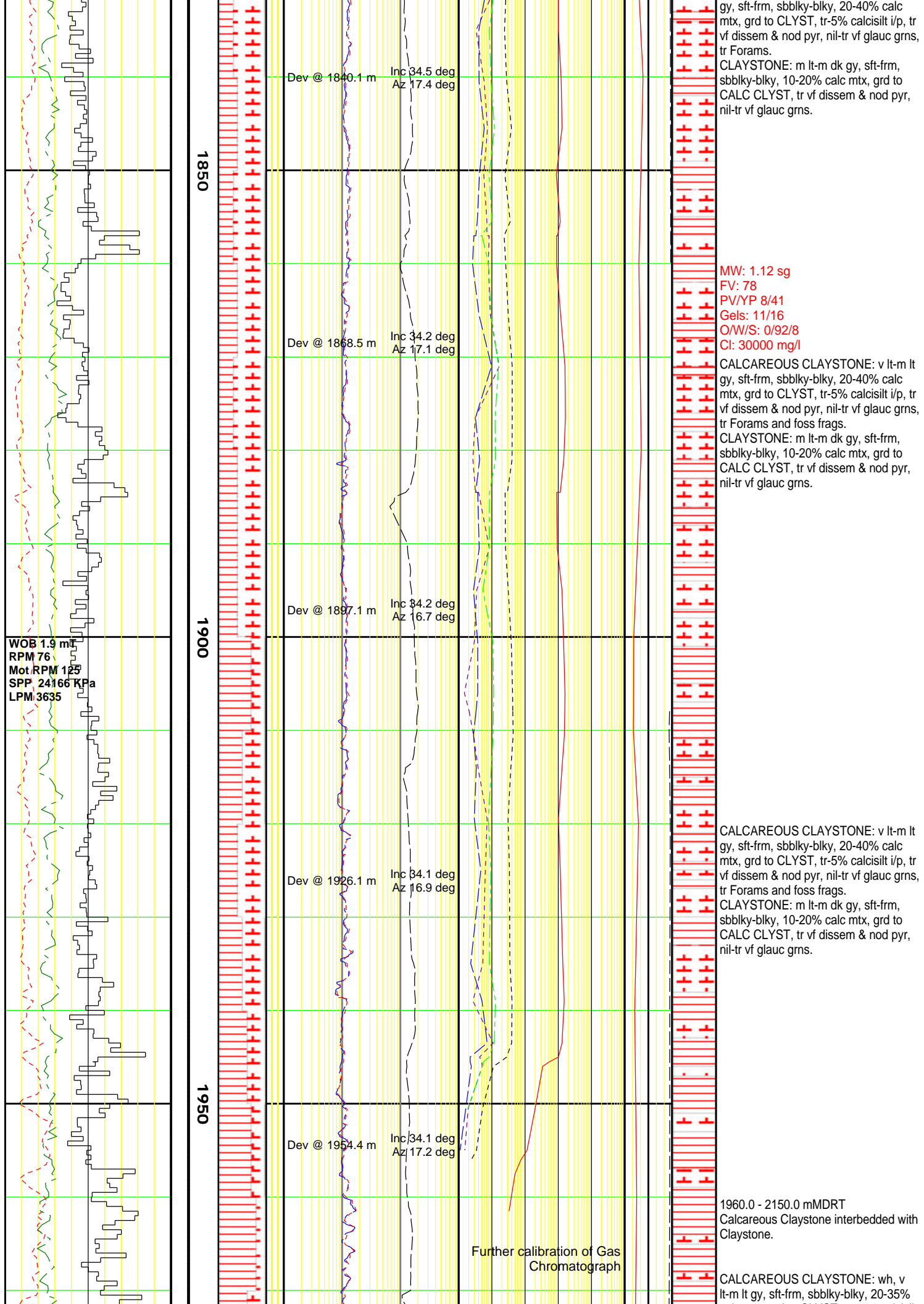
Dev @ 1811.3 m Inc 34.4 deg
Az 17.5 deg

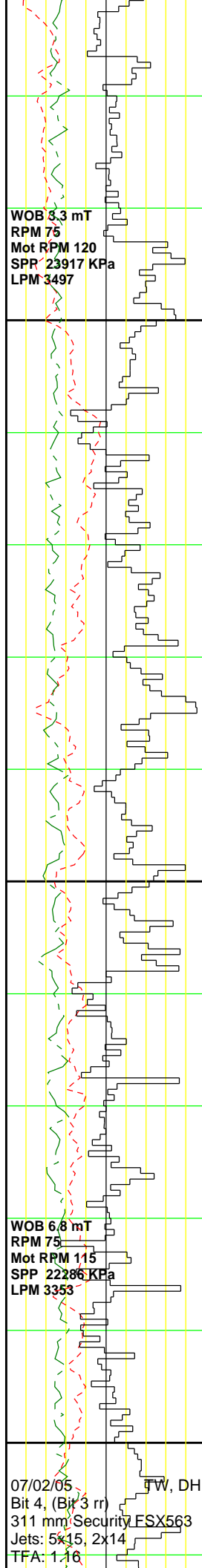
1691.0 - 1770.0 mMDRT
Calcareous Claystone.
CALCAREOUS CLAYSTONE: lt-m lt gy,
sft-mod frm, sbblky-blky, 20-35% calc
mtx, tr calcisilt, tr carb spks, tr dissem
pyr, nil-tr vf glauc grns.
MARL: lt-m dk gy, v sft-sft, disp i/p,
amor, cly mtx (35-45%), grd to ARG
CALCULITE i/p, tr calcisilt i/p, nil-tr vf
dk gn dissem glauc, tr foss frags &
Forams.

1770.0 - 1960.0 mMDRT
Calcareous Claystone interbedded with
Claystone.

CALCAREOUS CLAYSTONE: lt-m lt gy,
sft-frm, sbblky-blky, 20-40% calc mtx,
grd to CLYST, tr-5% calcisilt i/p, tr vf
dissem & nod pyr, nil-tr vf glauc grns.
CLAYSTONE: lt-m dk gy, sft-frm,
sbblky-blky, 10-20% calc mtx, grd to
CALC CLYST, tr vf dissem & nod pyr,
nil-tr vf glauc grns.

CALCAREOUS CLAYSTONE: v lt-m lt





2000

2050

2100

Dev @ 1983.4 m Inc 33.9 deg
Az 17.5 deg

Dev @ 2012.2 m Inc 33.5 deg
Az 17.0 deg

Dev @ 2041.6 m Inc 33.4 deg
Az 17.6 deg

Dev @ 2070.4 m Inc 33.4 deg
Az 17.4 deg

Continued calibration of
Gas Chromatograph

calc mtx, grd to CLYST, tr-10% calcisilt
i/p, tr vf dissep pyr & crs nod pyr, nil-tr
vf glauc grns, nil-tr bnsh yel foss frags
incl. Forams and Bryz spics.
CLAYSTONE: m lt-m dk gy, sft-frm, disp
i/p, sbblky-blky, 5-20% calc mtx, grd to
CALC CLYST, tr vf dissep & nod pyr,
nil-tr vf glauc grns.

CALCAREOUS CLAYSTONE: off wh, v
lt-m gy, inc gy, v sft-sft, sbblky, 20-35%
calc mtx, grd to CLYST, tr-20% calcisilt
i/p, tr vf dissep pyr & crs nod pyr, nil-tr
vf glauc grns, nil-tr foss frags.
CLAYSTONE: m lt-m dk gy, sft-frm, disp
i/p, pred sbblky, 5-20% calc mtx, grd to
CALC CLYST, tr vf dissep & nod pyr,
nil-tr vf glauc grns, tr lse md rnd qtz
grns.

CALCAREOUS CLAYSTONE: pred m
gy, com m lt gy, sft-frm, sbblky-blky,
20-35% calc mtx, grd to CLYST, tr vf
dissep pyr & crs nod pyr, nil-tr vf glauc
grns, nil-tr foss frags.
CLAYSTONE: m lt-m dk gy, m gy-olv
gy, sft-frm, disp i/p, sbblky-blky, occ
subsplintery, 5-20% calc mtx, grd to
CALC CLYST, tr vf dissep & nod pyr,
nil-tr vf glauc grns, tr micmic, tr carb flks.

In/Out: 2103.0/2702.0
mMDRT
Drilled: 1831 m
HOB: 19.5
Bit Grading:
2-3-BT-G-X-4-VHT-PR

MW: 1.12 sg
FV: 65
PV/YP 8/41
Gels: 16/38
OW/S: 0/91/9
Cl: 30000 mg/l

2150

2200

2250

Dev @ 2126.4 m Inc 32.9 deg
Az 16.8 deg

Dev @ 2154.8 m Inc 32.5 deg
Az 16.8 deg

Dev @ 2183.2 m Inc 32.4 deg
Az 16.5 deg

Dev @ 2211.8 m Inc 32.5 deg
Az 17.6 deg

Dev @ 2240.3 m Inc 32.6 deg
Az 16.8 deg

2150.0 - 2250.0 mMDRT
Interbedded Calcareous Claystone and
Claystone with minor traces of
Sandstone and Siltstone.

CALCAREOUS CLAYSTONE: v lt gy -
yelsh gy, lt olv gy, v sft-sft, rr frm, sbky,
com amor & plas, incr homog, 20-35%
calc mtx grd to CLYST, tr foss frags,
nil-tr carb flks, f dissem pyr & crs nod
pyr.

CLAYSTONE: m gy-m dk gy, olv gy,
frm, loc mod hd, blkly, loc subsplintery,
5-15% calc mtx, grd to CALC CLYST,
tr-rr foss frags & forams, tr vf dissem &
nod pyr, tr micmic.

TD 311 mm (12 1/4") hole
section @ 2772.0 mMDRT @
08:46 hrs on 11/02/05. After 2
attempts, the 244 mm casing
could not be set pass 2184.0
mMDRT.
244 mm (9 5/8") casing shoe
set @ 2184.0 mMDRT.

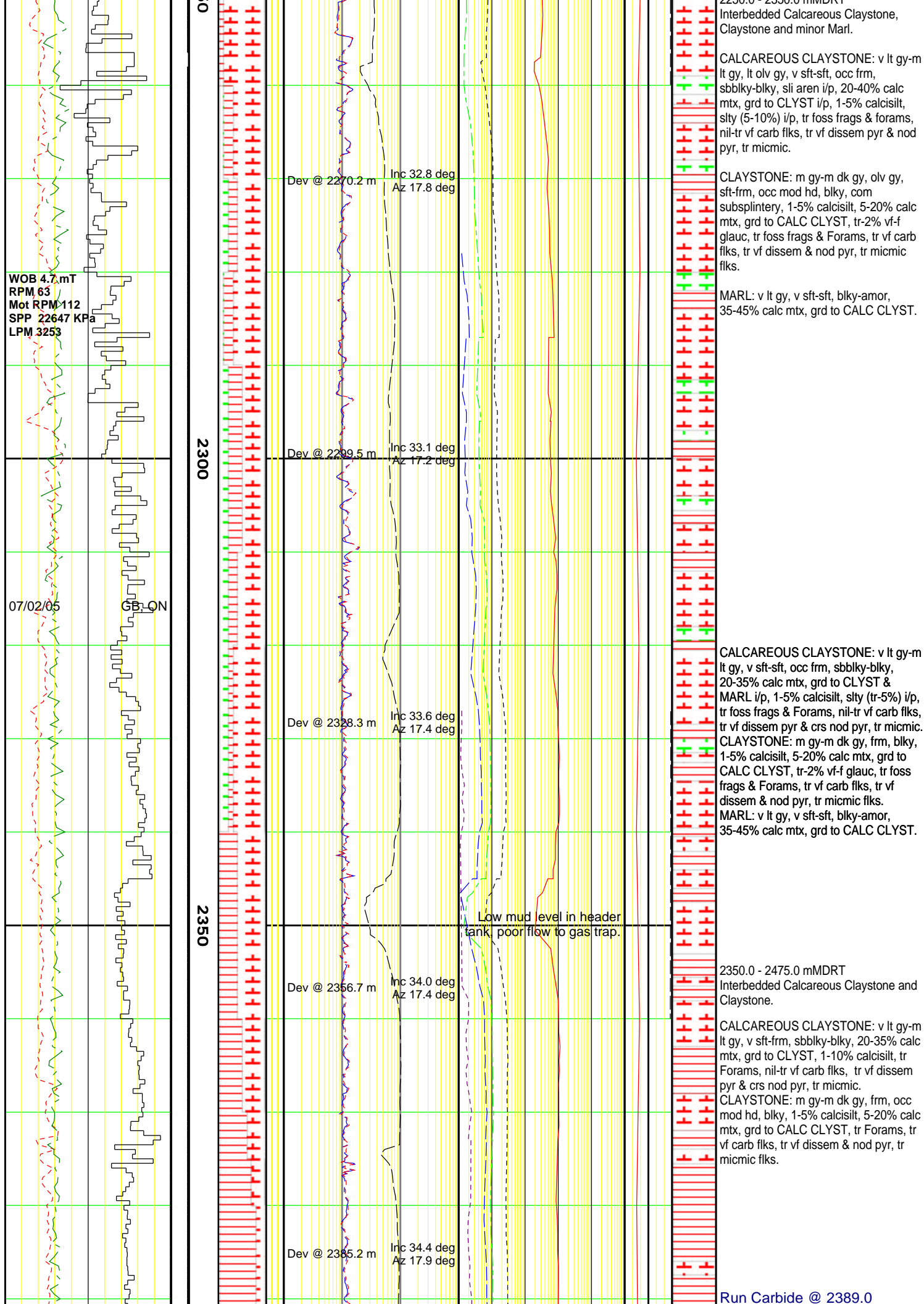
CALCAREOUS CLAYSTONE: v lt gy-m
lt gy, lt olv gy, v sft-sft, rr frm,
sbbkly-blky, loc amor & plas, incr slty &
aren i/p, 15-30% calc mtx, grd to
CLYST, tr foss frags & forams, nil-tr v
carb flks, f dissem pyr & crs nod pyr.

CLAYSTONE: m gy-m dk gy, olv gy,
sft-frm, rr mod hd, blkly, tr subsplintery,
5-15% calc mtx, grd to CALC CLYST,
tr-rr foss frags & Forams, tr carb flks, tr
vf dissem & nod pyr, tr micmic flks.

2250.0 - 2350.0 mMDRT

Norman Naidoo - Data
Engr.
Gary Bloom - Data Engr.
Tony Wyeth - Data Engr.
Dorian Kuhn - Data Engr.
Oliver Nindgen - Mud
Logger
Dave Hartney - Mud
Logger
Brent Glassbarrow - Mud
Logger

WOB 5.9 mT
RPM 71
Mot RPM 114
SPP 21297 KPa
LPM 3312



WOB 4.8 mT
RPM 68
Mot RPM 115
SPP 22298 KPa
LPM 3334

2400

2450

2500

WOB 4.2 mT
RPM 69
Mot RPM 112
SPP 24029 KPa
LPM 3272

Dev @ 2413.8 m Inc 35.0 deg
Az 17.7 deg

Dev @ 2441.9 m Inc 35.3 deg
Az 17.9 deg

Dev @ 2470.3 m Inc 35.2 deg
Az 17.6 deg

Dev @ 2499.6 m Inc 35.1 deg
Az 18.3 deg

Dev @ 2528.7 m Inc 34.9 deg
Az 17.7 deg

Carbide Check

Rig on 1 pump only
Insufficient flow to Gas
Trap

mMDRT
Theor Ann Vol = 1123 bbls
Act Ann Vol = 1147 bbls
Ave hole dia = 12.54"

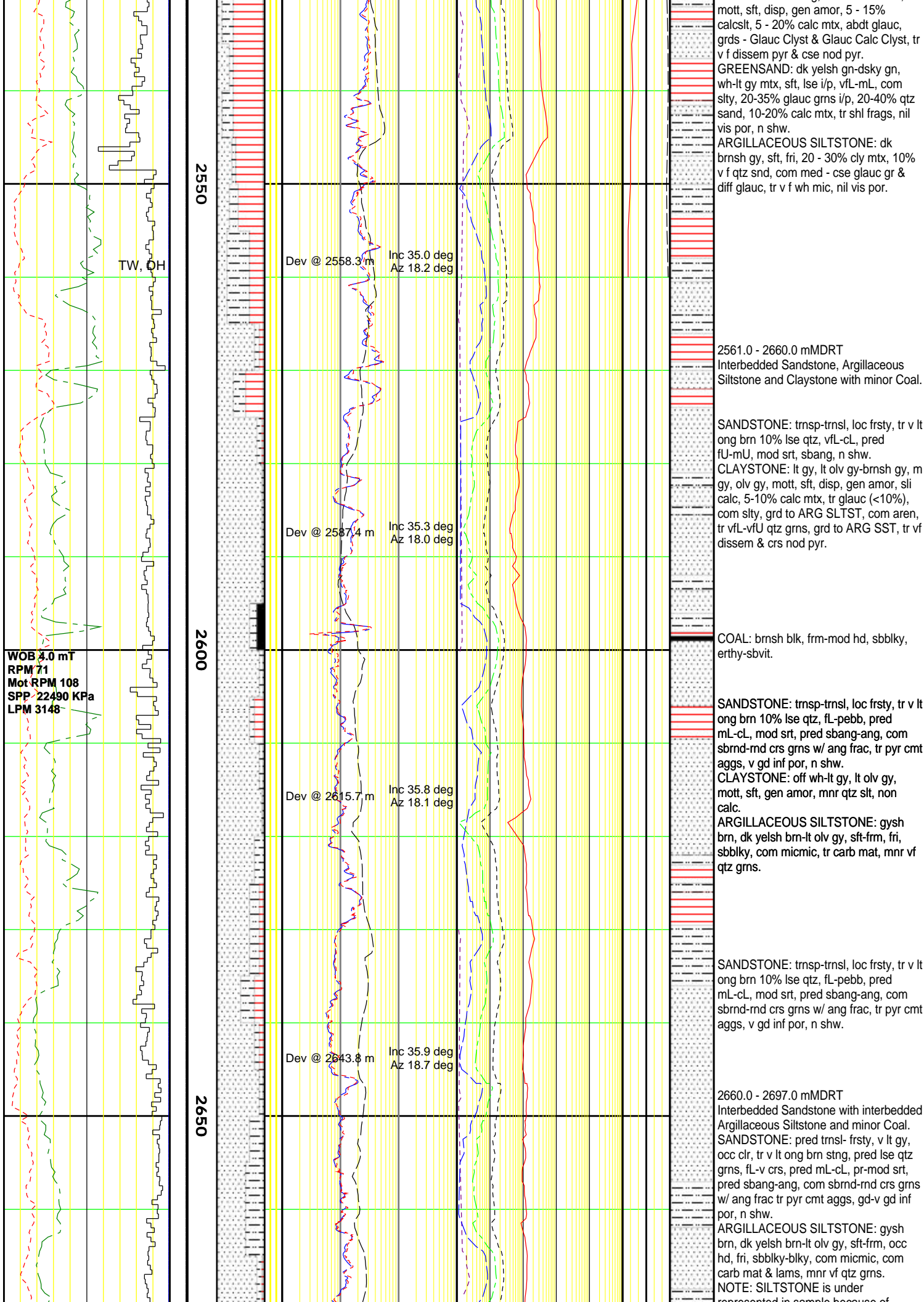
CALCAREOUS CLAYSTONE: v lt gy-m
lt gy, v sft frm, sbbly-bly, 20-35% calc
mtx, grd to CLYST, 1-10% calcisilt, tr
Forams, nil-tr vf carb flks, tr vf dissem
pyr & crs nod pyr, tr micmic.
CLAYSTONE: m gy-m dk gy, yelsh
gy-dsky yel mott i/p, frm, occ mod hd,
bly, 1-10% calcisilt, 5-20% calc mtx,
grd to CALC CLYST, tr Forams, tr vf
carb flks, tr vf dissem & nod pyr, tr
micmic flks, tr vf glauc grns.

CALCAREOUS CLAYSTONE: v lt gy-m
lt gy, v sft frm, amor i/p, sbbly-bly,
20-35% calc mtx, grd to CLYST, 5-20%
calcisilt, nil-tr vf carb flks, tr vf dissem
pyr & crs nod pyr, tr micmic.
CLAYSTONE: lt gy-m dk gy, lt olv gy,
yelsh gy-dsky yel, mott i/p, frm, occ mod
hd, bly, 1-10% calcisilt, 5-20% calc
mtx, grd to CALC CLYST, tr vf carb flks,
tr vf dissem & crs nod pyr, tr micmic flks,
tr vf glauc grns.

2475.0 - 2521.0 mMDRT
Interbedded Calcareous Claystone,
Claystone and minor Marl.

CALCAREOUS CLAYSTONE: v lt gy-m
lt gy, v sft frm, amor i/p, sbbly-bly,
20-35% calc mtx, 5-20% calcisilt, grd to
CLYST & MARL, nil-tr vf carb flks, tr vf
dissem pyr & f dk lams, tr crs nod pyr, tr
f glauc i/p, nil-tr lt bnsh yel foss frags.
CLAYSTONE: lt gy-m dk gy, bnsh gy,
frm-mod hd, splintery, bly, 5-15%
calcisilt, 5-20% calc mtx, grd to CALC
CLYST, nil-5% qtz slt w/ rr md-crs snd,
tr vf carb flks, tr vf dissem & crs nod pyr,
tr vf glauc grns.

2521.0 - 2561.0 mMDRT
Interbedded Claystone and Greensand
with minor Argillaceous Siltstone and
Claystone.
CLAYSTONE: lt gy - med dk gy, pa rdsh
brn - mod rdsh orng, lt brn - mod brn.



WOB 3.0 mT
RPM 75
Mot RPM 110
SPP 24415 KPa
LPM 3211

08/02/05

GB, QZ

2700

10/02/05
Bit 5
311 mm Security DBS
XL12
Jets: 3 x 20
TFA: 0.92
In/Out: 2702.0/2772.5
mMDRT
Drilled: 70.5 m
HOB: 10.9
Bit Grading:
3-3-BT-2-E-I-WT-TD

11/02/05

2750

2800

Dev @ 2676.2 m

Az 18.9 deg

Dev @ 2703.1 m

Inc 35.4 deg
Az 18.3 deg

Dev @ 2730.3 m

Inc 35.6 deg
Az 18.4 deg

Dev @ 2758.6 m

Inc 34.9 deg
Az 18.8 deg

CBU

MW: 1.16 sg
FV: 70
PV/YP 21/36
Gels: 9/17
O/W/S: 0/89/11
CI: 37000 mg/l

MW: 1.16 sg
FV: 63
PV/YP 21/21
Gels: 8/14
O/W/S: 0/91/9
CI: 37500 mg/l

MW: 1.16 sg
FV: 63
PV/YP 20/361
Gels: 9/16
O/W/S: 0/91/9
CI: 38000 mg/l

2697.0 - 2733.0 mMDRT
Sandstone with minor interbedded
Argillaceous Siltstone, Claystone and
Coal.
SANDSTONE: clr-trnsl, frsty i/p, tr v lt
ong brn, pred lse qtz grns, fl-pebb, pred
mL-cL, pr srt, pred sbang-ang, tr mica
flks, com sbrnd-rnd crs grns w/ ang frac
tr pyr cmt aggs, gd inf por, n shw.
ARGILLACEOUS SILTSTONE: gysh
brn, dk yelsh brn-lt olv gy, sft-frm, fri,
sbbkly, com micnic, tr carb mat, mnr vf
qtz grns.
CLAYSTONE: wh, lt gy, med brn-brn
blk, brnsh gy-md brn, sft-frm, blkly, disp
i/p, washing out, slty w/tr-10% qtz slt, tr-
30% carb mat, tr pyr, tr-rv vf qtz grns,
non calc.

2733.0 - 2772.5 mMDRT
Sandstone with minor interbedded
Argillaceous Siltstone, Claystone and
Coal.
SANDSTONE: trnsp-trnsl, tr opq, occ v lt
gy, frsty, vfU-cU, pred mL-cL, mod wl
srt, ang-sbang, com sbrnd-rnd c grns w/
ang frac, tr c mic flks, tr foss & forams, n
shw.
SILTSTONE: gy brn-dk gy brn, mod-dk
yelsh brn, dk yel org, sft, fri, sbbkly,
washing out, 20-30% arg mtx, mic,
abdnt carb mat & lams, aren i/p, tr crs
pyr nod, non calc.

SANDSTONE: clr-trnsl, opq i/p, occ lt gy,
fl-vclU, pred mU-cL, pr-mod srt,
sbang-ang, occ sbrnd grns w/ang fracs,
lse, occ fri aggs, tr crs nod pyr, tr crs
mica flks, tr foss frags & forams, tr Fe
stng, mod-gd inf por, pr-mod vis por, n
shw.
CLAYSTONE: off wh-lt gy, lt olv gy,
mott, sft, gen amor, mnr qtz slt, non
calc.
COAL: dk yelsh brn, dk brn-blk, sft -
mod frm, sbbkly-sbfiss, slty i.p., erthy -
sbvlt.

TD 311 mm Hole section at
2772.5 mMDRT _ 2420.7
mTVD. After 2 attempts, the
244 mm casing could not be
set pass 2184.0 mMDRT. Set
244 mm Casing shoe @
2184.0 mMDRT _ 1903.0
mTVD.

ZaneGrey-1 was plugged back
to 2184.0 mMDRT, and
ZaneGrey-1ST1 was kicked off
at 2190.0 mMDRT.

<div> <div>Gamma Ray api</div> <div>0150300</div> </div>			<div> <div>ROP Avg m/hr</div> <div>2001000</div> </div>			<div> <div>Bit Weight mT</div> <div>01020</div> </div>			<div> <div>Sliding</div> <div>DEPTH - metres</div> <div>MDRT</div> </div>			<div> <div>Cuttings Lithology</div> <div>Oil Show</div> <div> <div>poor</div> <div>fair</div> <div>good</div> </div> </div>			<div> <div>EWR Deep Phase Res ohm-metre</div> <div>0.1110100</div> <div>EWR Medium Phase Res ohm-metre</div> <div>0.1110100</div> <div>Gas Hydrocbrn Avg %</div> <div>0.010.1110</div> </div>			<div> <div>Gas Chromatograph</div> <div>ppm</div> <div> <div>C1 Avg</div> <div>C2 Avg</div> <div>C3 Avg</div> <div>C4 Total Avg</div> <div>C5 Total Avg</div> </div> <div> <div>% DOL</div> <div>1000</div> <div>% LST</div> <div>0100</div> </div> </div>			<div> <div>Calcmetry</div> <div>0100</div> </div>			<div> <div>Interpreted Lithology</div> </div>			<div> <div>Lithology Descriptions and Remarks</div> </div>		
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