HALLIBURTON

FORMATION EVALUATION LOG

WELL: CHAMPION-1

COMPANY : BHPP Pty Ltd.
RIG : OCEAN BOUNTY
AREA : OFFSHORE OTWAY BASIN, VICTORIA
COUNTRY : AUSTRALIA
LOCATION : 38 Deg 32' 33.5" SOUTH, 142 Deg 23' 17.86" EAST
ELEVATION : Air Gap 25.00 m (RT-MSL)
Water Depth 77.80 m (MSL-SB)
DEPTH REF.: ROTARY TABLE

SPUD DATE : 09/08/95
TD DATE : 14/08/95
TD DRILLER : 1882 m (1882 m TVD)
TD WIRELINE : 1859 m (1859 m TVD)
LOGGED FROM : 09/08/95 @ 78 m
LOGGED TO : 15/08/95 @ 1882 m
STATUS : PLUGGED AND ABANDONED

WELL CONFIGURATION

BIT SIZE in	*HOLE DEPTH* m	*CASING SIZE* in	*SHOE DEPTH* m
36	120	20	119
17 1/2	1225	13 3/8	1216
12 1/4	1882		

DEPT. NAT. RES & ENV
PE600527

LOGGING ENGINEERS

A FORD
A JAMES
T GEDDES
R JONES

LOGGING UNIT No

DEPTH SCALE

1: 500

SYMBOLS

NEW BIT RUN		CORED INTERVAL Core #	①	NO SHOW	
NEW CORE BIT RUN		Not Recovered	☒	WEAK SHOW	
CASING SHOE	◢	WIRELINE LOGS RUN		FAIR SHOW	
LINER HANGER	◥	RFT POINTS		GOOD SHOW	
CROSS-OVER	▼	Pressure Only	←		
SIDEWALL CORE	▶	Sample	←●		
SWC Not Recovered	▷	Seal Failure	←		
		Tight	←□		

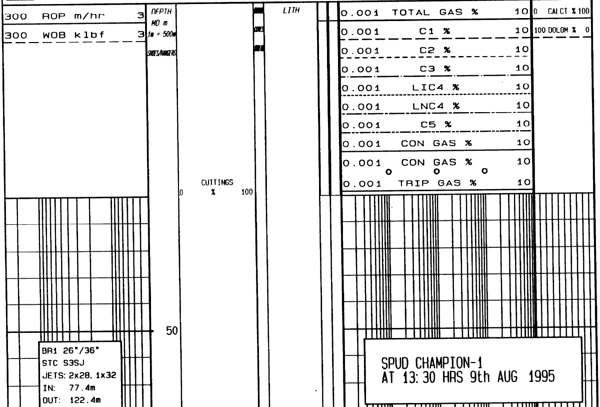
ABBREVIATIONS

NB	NEW BIT	DS	DIRECTIONAL SURVEY
NCB	NEW CORE BIT	WT	WIPER TRIP
RRB	RE-RUN BIT	POH	PULL OUT OF HOLE
CS	CASING SHOE	RIH	RUN IN TO HOLE
SWC	SIDEWALL CORES	WOW	WAIT ON WEATHER
EL	ELECTRIC LOG	LAT	LOGGED AFTER TRIP
WOB	WEIGHT ON BIT	LCM	LOST CIRCULATION MATERIAL
RPM	REVS PER MINUTE	DC	DEPTH CORRECTION
PP	PUMP PRESSURE	DST	DRILL STEM TEST
SPM	STROKES PER MINUTE	RMG	REAMING
CR	CIRCULATED RETURNS	ML	MUD LOSSES
PR	POOR RETURNS	FR	FLOW RATE
NR	NO RETURNS	FC	FLOW CHECK
TG	TRIP GAS	BR	BIT RUN
CG	CONNECTION GAS		
WTG	WIPER TRIP GAS		

MUD DATA

W	WEIGHT	kg/L
MG	MUD GRADIENT	psi/kft
V	FUNNEL VISCOSITY	s/qt
PV	PLASTIC VISCOSITY	cP
YP	YIELD POINT	lb/cf2
GEL	GEL STRENGTH	lb/cf2
pH	ACIDITY	
F	FILTRATE	ml/30m
CK	CAKE THICKNESS	in/32
S	SALINITY	mg/L
SD	SAND CONTENT	%
O	OIL CONTENT	%
WL	WATER LOSS	ml/30m
SOL	SOLIDS CONTENT	%
pF	FILTRATE ALKALINITY	c3/c3
GYP	GYPSUM CONTENT	kg/m3

▨ ANHYDRITE	▨ CALCARENITE	▨ CHERT	▨ DOL LIMESTONE	▨ HALITE	▨ SANDSTONE	▨ SHALE	☐ GLAUCONITIC	☐ FORAMINIFERA
▨ BASALT	▨ CALCILUTITE	▨ CLAYSTONE	▨ DOL CALCARENITE	▨ INTERBEDDED CALC CLAYSTONE AND MARL	▨ SANDSTONE (MED)	▨ SILTSTONE	☐ BIVALVE	☐ GASTROPODA
▨ BRECCIA	▨ CALCISILTITE	■ COAL	▨ DOLERITE	▨ LIMESTONE	▨ SANDSTONE (CRS)	☒ RECRYSTALLISED	☐ RADIOLARITES	☐ INOCERAMUS
▨ CALC CLAYSTONE	▨ CEMENT	▨ CONGLOMERATE	▨ DOLOMITE	▨ MARL	▨ SANDSTONE (V. CRS)	☐ FELDSPATHIC	☐ BRYOZOA	☐ PLANT REMAINS



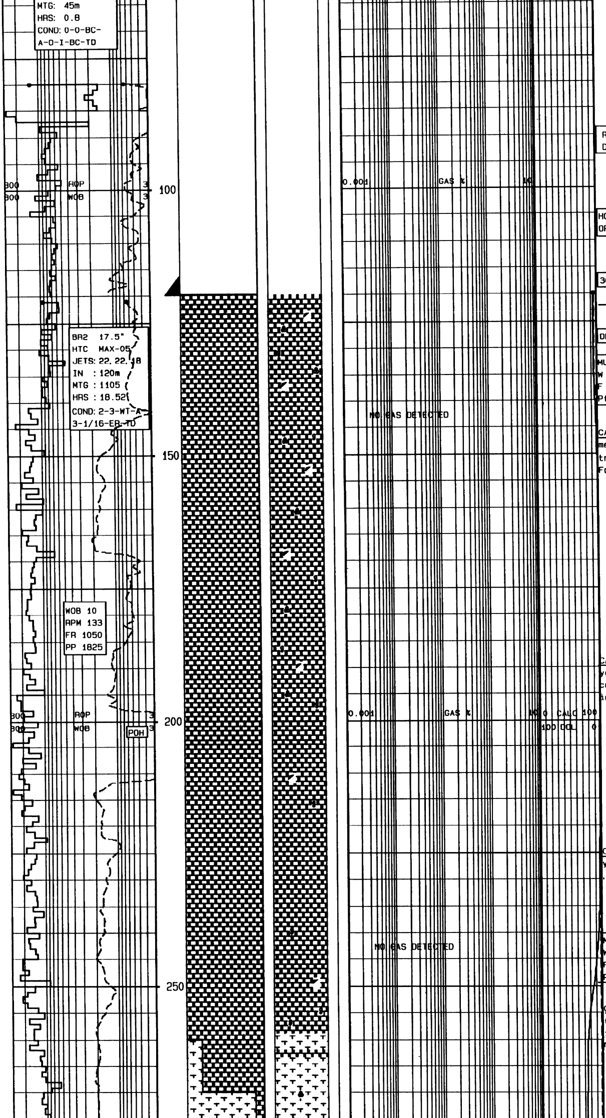
BR1 26"/36"
STC S3SJ
JETS: 2x28, 1x32
IN: 77.4m
OUT: 122.4m

SPUD CHAMPION-1
AT 13:30 HRS 9th AUG 1995

COMMENTS

W/L RUNS

inc azi
# TVD



RETURNS TO SEABED
DRILL WITH SEAWATER/HI-VIS SWEEPS

HOLE DRILLED WITH 26" BIT/36" HOLE OPENER TO 122.4m.

30"/20" CASING - 20" SHOE AT 120m

10m SAMPLING INTERVALS

DRILL WITH KCL/POLYMER MUD SYSTEM

MUD DATA AT 120m
W 1.05, V 66, PV 11, YP 22, GEL 4/11,
F 7.2, FK 1, Sd tr, SOL 4, pH 10.3,
Pf/Mf 0.65/0.13, CL 35K, KCL 3.5%.

CALCARENITE: bioclastic, grysh yel, med-crs gr, frm-fri, micrxln Cmt, tr glauc, tr qtz gr, abd foss frag, Foram, Bry.

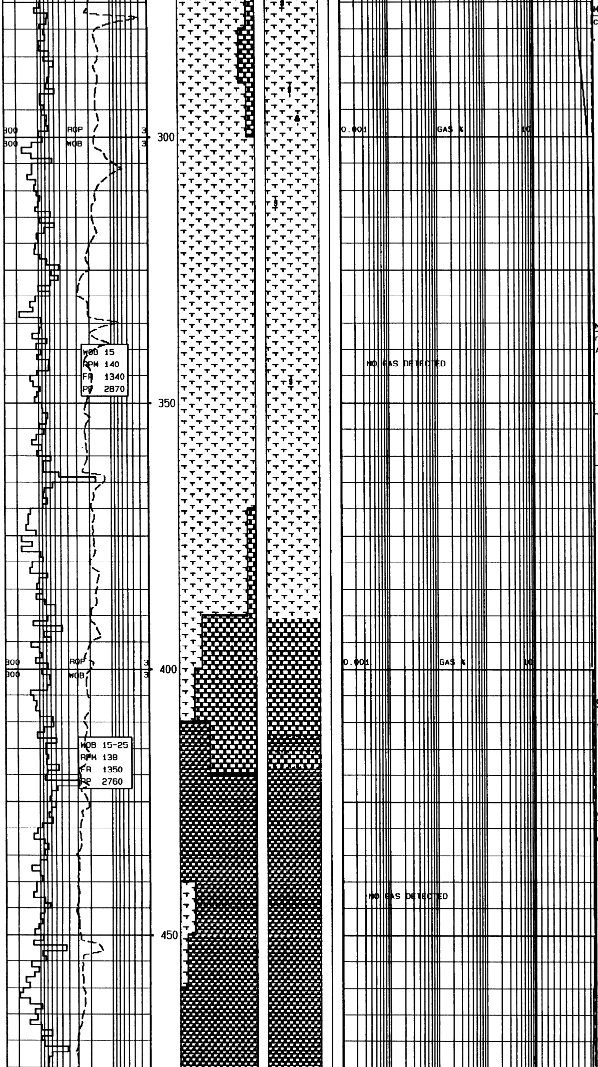
CALCARENITE: bioclastic, grysh yel-yel gry, frm, pred lse, micr-crptxln cmt, tr glauc spks, r glauc foss infill, abd foss.

POH TO PICK UP ADDITIONAL BHA

CALCARENITE: bioclastic, grysh-yel, yel gry, frm, pred f-med gr, tr glauc, abd foss Frag.

MUD DATA AT 260m
W 1.08, V 58, PV 14, YP 21, GEL 4/12,
F 6.4, FK 1, SOL 5.5, SD 0.5, pH 9.7,
Pf/Mf 0.3/0.6, CL 32K, KCL 4.5%.

CALCARENITE: v lt-med lt gry, frm-fri, micritic, r lt yell calcite incl, tr glauc spks, tr qtz grs, mnr foss frags, grds-CALCISILTITE



MARL: med lt gry, sft-frm, amor, disp, com-abd arg mtx, tr glauc, f foss , grades-Argillaceous Calcilutite

INCREASE FLOW RATE AT 280m

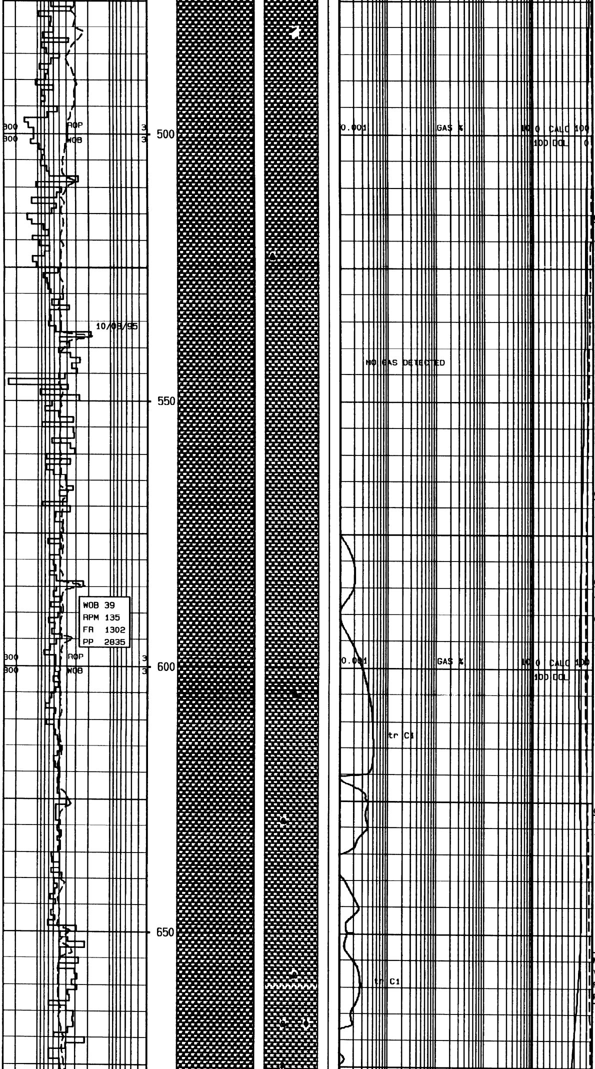
MARL; med lt gry, sft, amor, disp, tr r glauc, tr-r foss frags, grades to Arg. Calcilutite

MUD DATA @ 340m
W 1.09, V 60, PV 14, YP 23, GEL 5/15, F 6, CK 1, SOL 6, SD 1, pH 9.5, Pf/Mf 0.25/0.5, Cl 31000, KCl 4.5%

CALCARENITE: grdg to Calcisiltite, lt-med lt gry, frm, occ mod hd, mass, tr r foss.

CALCARENITE: com grds to C'Siltite, lt-med lt gry, frm-mod hd, mass, vf, mod wl cmtd, tr r foss frags.

MARL: lt-med lt gry, sft, disp, sli slty, amor-mass.



CALCISILTITE: grdg to C'arenite ip, lt olive grey to med gry, frm-sft, vf-f, tr foss frags

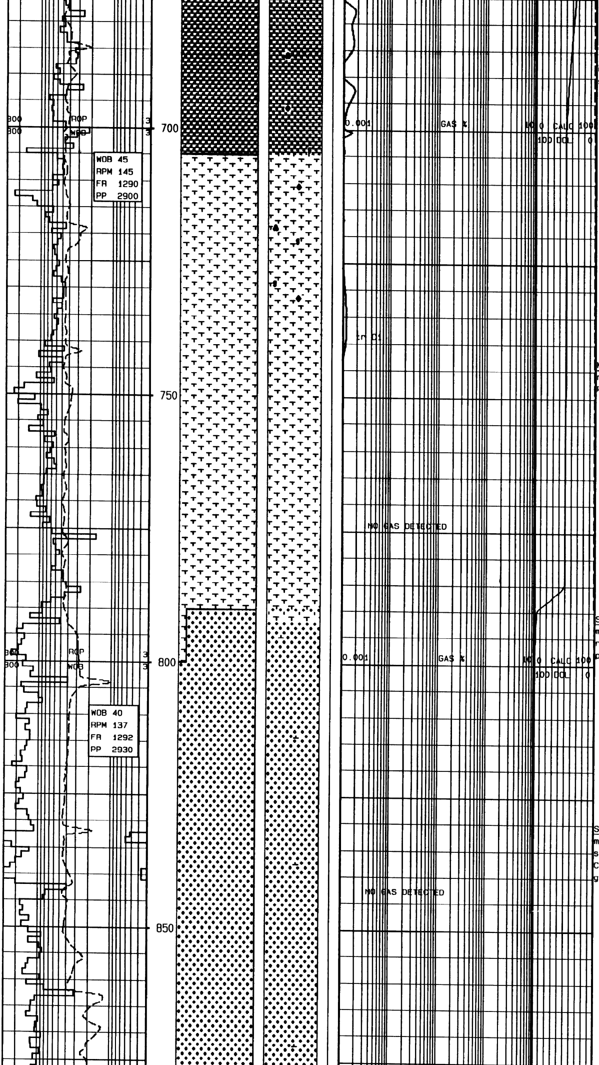
MUD DATA @ 520m
W 1.1, V 56, PV 15, YP 21, GEL 4/12,
F 6, CK 1, SOL 6.5, SD 1, pH 9.3,
Pf/Mf 0.2/0.4, Cl 31000, KCl 4.5%

CALCISILTITE: grd to calcilutite, lt olv gry-med gry, frm-sft, r vf-f c'arenite, tr foss frag, r min fluor.

CALCISILTITE: lt olv gry to med gry, frm-sft, r vf-f gr c'arenite, tr foss frag and foram, grd to c'lutite.

CALCISILTITE: lt olv gry-med gry, frm-sft grd to C'arenite, tr foss frag, grd to C'lutite.

MUD DATA AT 650m
VW 1.1, V 58, PV 14, YP 23, GEL 4/6,
F 5.6, FK 1, SOL 6.0, SD 1.0, pH 9.5,
Pf/Mf 0.8/1.0, CL 32K, KCL 4.5%.

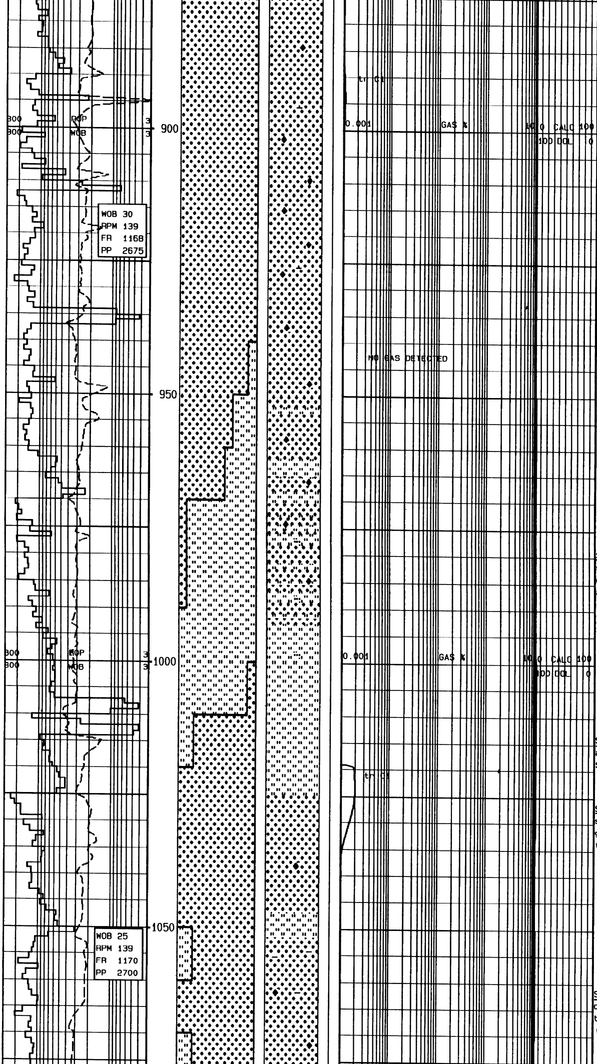


CALCISILTITE: lt olv gry-med gry, sft-frm, occ vf-f C'arenite, tr Foss frags, Forams, tr Glauc, tr Pyr.

MARL: lt olv gry-med gry, frm-sft, r tr Foss frag, Forams, tr glauc, tr pyr, grd to C'lutite

SANDSTONE: dk yel/or, lt brn, fri, med-v crs, pred crs gr, sbang to-rndd, w srt, tr sil Cmt, gd-v gd vis por.

SANDSTONE: dk yel/or to lt brn, fri, med-v crs, pred crs gr, sbang to sbrnd, w srt, tr sil Cmt, tr calc Cmt, tr limonite gr, tr carb frag, gd vis por



SANDSTONE: clr, lt-med yel/or, trans-lt brn, wl srt, med-crs, pred crs, lse, ang-sbrnd, tr calc cmt, carb frag, v gd inf por

SANDSTONE: clr-trans, sbang-rndd, lse, med-crs pred crs gr, tr sil Cmt, tr calc Cmt, abd Pyr nods, carb spks, v gd vis por.

SANDSTONE: a/a bec pred med gr.

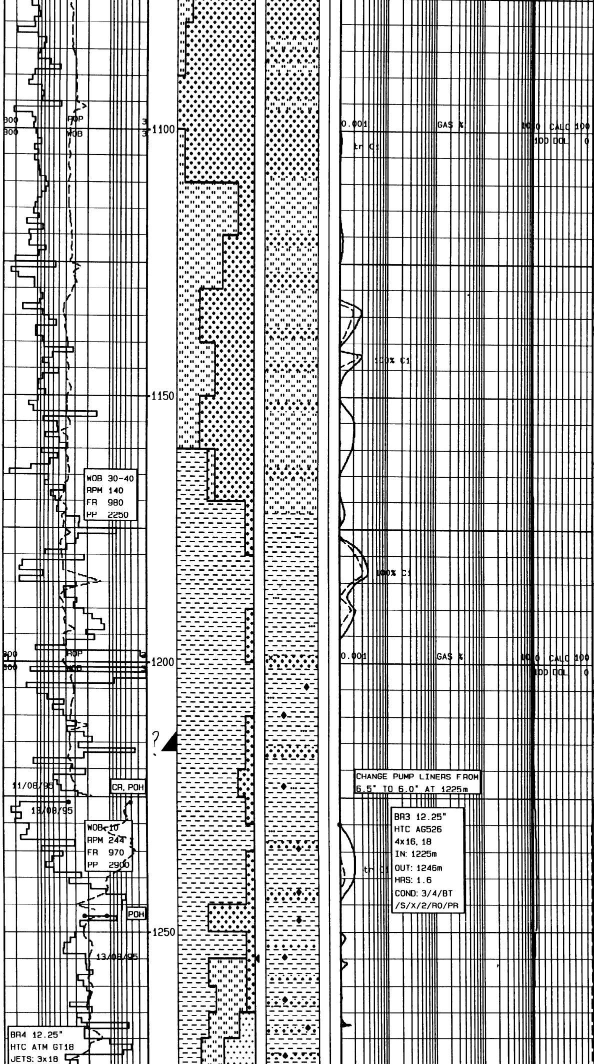
SILTSTONE: dk brn, mod brn-gry brn, sft, abd arg mtx, com vf-f gr Qtz, occ v crs opq Qtz grs, tr Pyr cmt aggs, grd to arg Sst.

SLOW ROP @ 1010m-BIT BALLING?

SILTSTONE: med dk brn-gry brn, sft, amor, vf aren ip, disp, grades to Silty Claystone

SANDSTONE: clr-trnl, lse, crs-v crs, sb ang-sb rnd, mod srtd, occ Fe stnd grs, tr pyr nods, gd inf por, no fluor.

SANDSTONE: clr-trnsl, lse, med-v crs, occ v crs, sbang-sb rnd, mod srt, tr arg mtx, tr pyr nods, tr r foss (Foram), fr-gd inf por, no fluor.



SILTSTONE: as above

CARBIDE LAG CHECK AT 1066m
THEOR. STROKES = 8001
ACTUAL STROKES = 9450
ASSUME PUMPS=0.1194 bbl/strk @ 95%
INFER: 120 bbls excess open hole

SANDSTONE: clr-trnsl, lse, crs-v crs, com granules, sbang-sb rnd, occ rndd, tr-mnr brn arg mtx, tr pyr, fr-gd inf por, no shows

SILTSTONE: med dk brn, gry brn, sft, amor, disp, tr micmic mat.

MUD DATA AT 1120m
W 1.1, V 58, PV 14, YP 22, GEL 4/4,
F 5.0, FK 1, SOL 6.0, SD 2.0, pH 9.2,
Pf/Mf 0.3/0.6, CL 33K, KCL 4.0%.

CLAYSTONE: mod dk brn-gry brn, sft, amor, disp.

CLAYSTONE: gry brn-dusky brn, sft, amor, r blky, tr aren, disp

SANDSTONE: trnsl-clr, lse, occ hd, f-pred crs, pr-mod srt, sb ang-sb rnd, occ strg sil cmt/mtx, v pr-fr inf por, no shows.

CLAYSTONE: grey brown-dusky brown, sft, amor, vf aren, disp.

SPOT 8% KCL PILL @ T.D PRIOR POH

13.375in CASING SHOE AT 1216.5m

MUD MOTOR IN BHA; 0.15 rev/gallon

LEAK OFF TEST : 1.92 ppg EMW

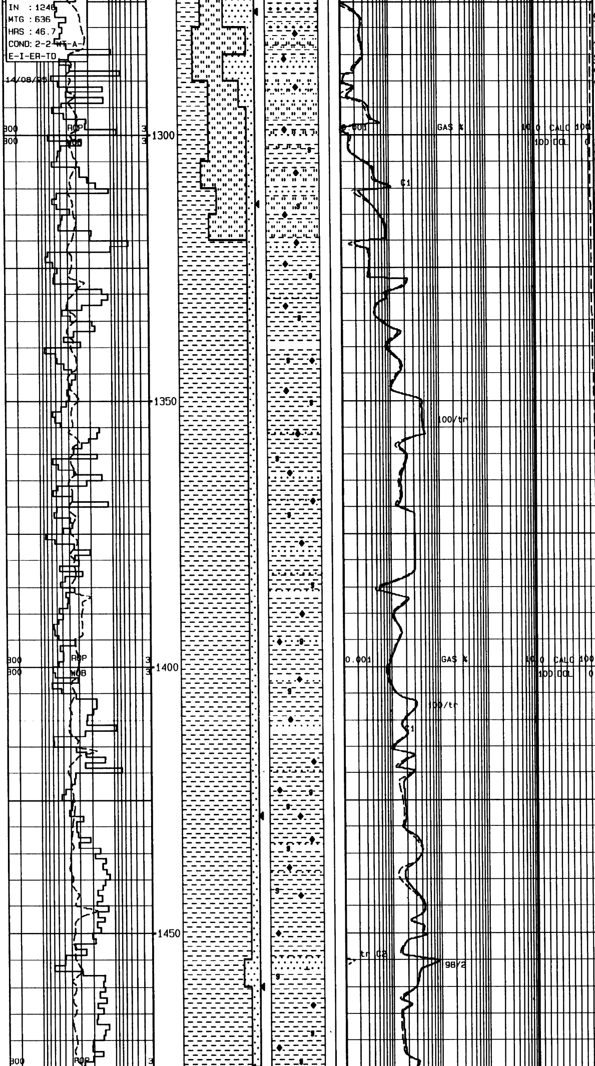
SANDSTONE: trnsl-clr, med-v crs, r gran, ang-sbrnd, pr srt, com frac grs, tr calc cmt, mnr pyr cmt/nods, pr inf por, no shows

CLAYSTONE: gry brn-dusky brown, sft, amor, slty, vf aren, com diss pyr.

CONVENTIONAL ROTARY BHA FROM 1246m

5m SAMPLING INTERVALS

SANDSTONE: lt gry, clr-trans, fri-v hd, abd lse qtz gr, med- v crs gr, sb ang-pred sb rndd, mod srt, tr com pyr, tr r brn/gry mtx, p-mod vis por.



CLAYSTONE: med gry-brn gry, sft-occ frm, tr r nod and diss pyr, tr glauc, tr calc, grd to Sltst.

SILTSTONE: med gry-brn gry, sft to occ frm, tr pyr, tr glauc, tr calc, grd to Clyst.

SANDSTONE: lt-lt gry, clr-trans, f-med occ crs gr, sbang-rndd, p-w srt, r-com pyr and sil cmt, g vis por.

CLAYSTONE: med gry/brn-lt gry, sft disp, tr nod pyr, tr glauc, tr calc, grd to Sltst.

SANDSTONE: lt gry-lt gry/brn, clr-trans lse qtz, fri-v hd, vr-med pred med gr, sb ang to sb rnd, mod-w srt, r com glauc and sil cmt, tr opq min and glauc, tr com arg and slty mtx, n-p vis por.

MUD DATA @ 1356m
W 1.18, V 58, PV 13, YP 24, GEL 4/10,
F 4.8, CK 1, SOL 9, SD 0.75, pH 9.3,
pF/mF 0.25/0.65, Cl 54000, KCl 8%

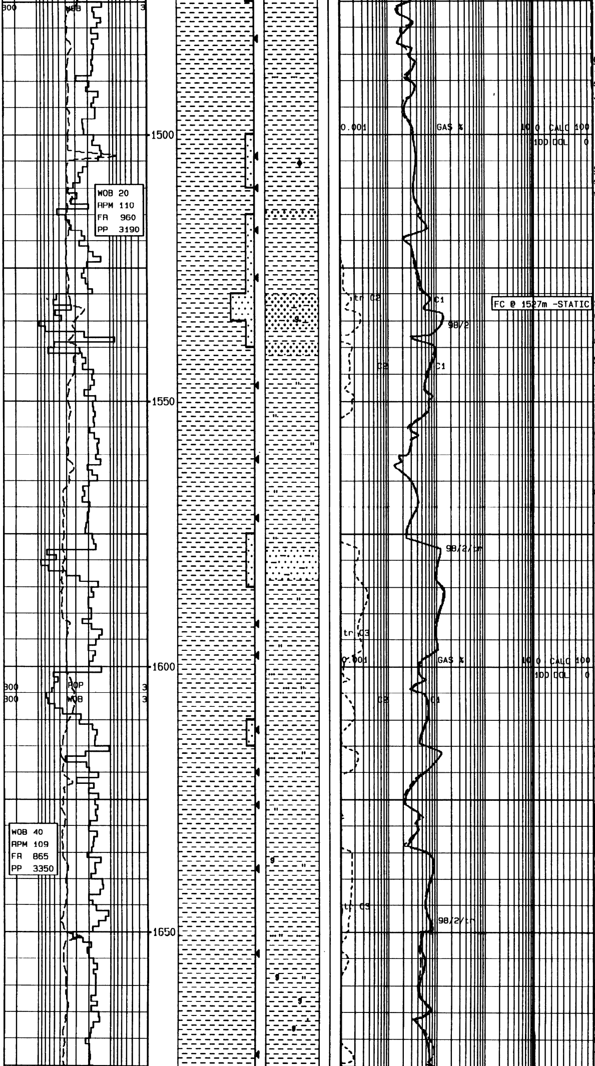
CLAYSTONE: med gry-brn/gry, sft-frm, tr pyr, tr calc, micrmic, glauc, carb spk, grd to Sltst.

CLAYSTONE: med gry-brn/gry, sft-frm, tr diss pyr, micrimic, carb spks, grd to Sltst.

CLAYSTONE: lt-med gry med gry/brn, sft-frm, tr diss pyr, sl calc, tr glauc, r carb spks, grd to Sltst.

SANDSTONE: wh clr-trans, lt grn, sb ang to sb ang, vf-f pred f, tr calc cmt, tr arg and slty mtx, n vis por.

CLAYSTONE: lt gry lt olv-lt olv/brn, sft-frm, slty, tr diss pyr, abd glauc, grd to Sltst.



CLAYSTONE: med dk gry-gry brn, sft-frm, amor-mass, disp, occ tr brn aren sil cmtd lams, tr carb mat, tr glauc, tr-r diss & nod pyr

SANDSTONE: off wh, clr, vf-f, sbang-sbrnd, wl srt, r wk calc cmt, com off wh arg mtx, pr vis por, no shows

SANDSTONE: clr-trnsl, off wh, f-med, r crs, ang-sbrnd, pr srt, wk calc cmt, com-abd arg mtx, tr glauc, pr inf por, no fluor

CLAYSTONE: gry brn, med dk gry, sft-frm, amor-frm, com slty, tr diss pyr, tr carb, grades to Silty Claystone

CLAYSTONE: gry brn, med dk gry, frm, amor-mass, r blky, disp, com silty, tr carb mat, tr r mica flks, grades to Silty Claystone

PARTIALLY BLOCKED GAS SAMPLE LINE, INTERMITENT CHROMATOGRAPHIC SAMPLE 1530-1690m LOW GAS VALUES

MUD DATA @ 1575m
W 1.2, V 47, PV 15, YP 22, GEL 4/9, F 4.8, CK 1, SOL 10, SD 0.5, pH 9.0, pF/mF 0.2/0.8, Cl 55000, KCl 7.5%

CLAYSTONE: med dk gry, r dk gry, frm, amor-occ blky.sli slty, disp, r pyr nods, tr calc lams

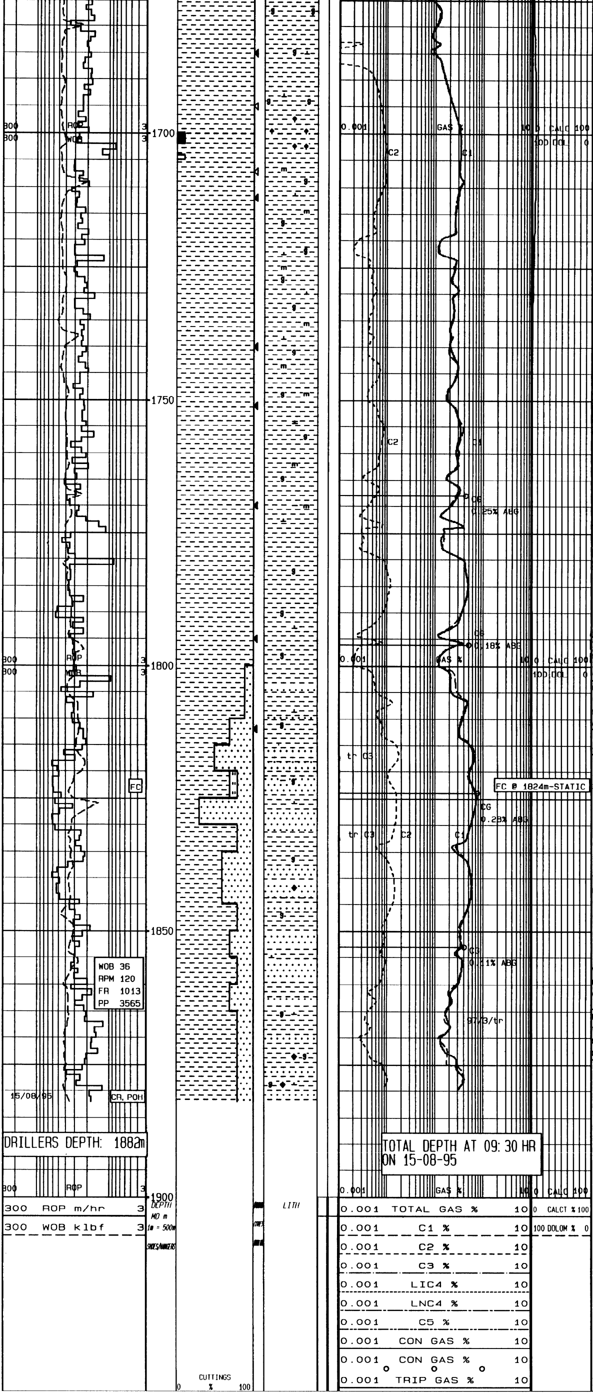
SANDSTONE: wh, trnsl brn ip, clr, frm, occ hd, f-med, ang-sbrnd, mod srtd, mnr calc cmt, tr-com arg mtx, tr glauc, pr-v pr vis por, no shows

MUD DATA @ 1620m
W 1.2, V 46, PV 14, YP 22, GEL 4/8, F 4.4, CK 1, SOL 10, SD 0.5, pH 9.2, pF/mF 0.1/1.1, Cl 53000, KCl 7%

CLAYSTONE: med dk gry, r dk gry, gry brn, frm, amor-blky, disp, tr carb lam, tr glauc.

CLAYSTONE: med dk gry, gry brn, amor-blky, com slty, tr lith specs & tr glauc

blky, com slty, com slty, tr lith specs & glauc



CLAYSTONE: med gry-med dk gry, sft-frm, amor-blky, disp, com slty, tr carb specs & glauc, grades ip to Silty Claystone

CLAYSTONE: lt blsh gry, v lt gry, lt brn gry I.P, tr glauc, calc, micrmic and carb, vf gr qtz, grd to Sltst and vf arg Sst.

COAL: blk, brit, slty.

CLAYSTONE: wh blsh/gry, med gry brn i/p, intbd vf-occ med gr Sst, tr glauc, calc and micrmic, grd to Sltst and vf gr arg Sst.

CLAYSTONE: lt-med blush gry dk gry/brn, sft-frm, amor-disp i/p, tr chlor gr, carb and micrmic, grd to vf gr arg Sltst.

CLAYSTONE: a/a with tr diss pyr.

CLAYSTONE: lt gry-lt olv grn, sft-frm, disp, com carb spk, micrmic, tr chlor, grd to Slttt.

MUD DATA AT 1802m
W 1.2, V 54, PV 15, YP 23, GEL, 4/12,
F 4.2, FK 1, SOL 10.0, SD 0.25, pH 9.6,
CL 50K, KCL 8.0%.

SANDSTONE: wh trans lt grn/gry, vf-f gr, ang to sb ang, w srt, com arg mtx, w calc cmt, tr grn, wh, lt-dk org lith gr, p vis por.

SANDSTONE: wh-trans lt gry, vf-f pred vf gr, w srt, sb ang to sb rnd, calc cmt i/p, lse qtz gr, tr grn, org, grn lith, p vis por.

CLAYSTONE: lt gry-lt olv grn/gry pa gry, sft-frm, mass, sl amor, disp, com carb spks, tr pyr, grd to Sltst.

MUD DATA AT 1882m
W 1.2, V 52, PV 16, YP 22, GEL 4/10,
F 4.2, CK 1, SOL 9.5, SD 0.25, pH 9.3,
Pf/Mf 0.3/0.8, CL 55K, KCL 7.9%.

ELECTRIC LOGS

COMMENTS
W/L RUNS
inc azi
TVD