EXLOG
A Baker Hughes company

COMPANY	: BHP PETROLEUM PTY LTD
WELL	: ERIC THE RED - 1
FIELD	: OTWAY BASIN
REGION	: AUSTRALIA
COORDINATES	: 39 deg 00' 45.44" S 143 deg 10' 51.45" E
API INDEX	:
SPUD DATE	: 17th FEBRUARY 1993
ELEVATION	: RKB - MSL = 25 m RKB - FOR = 100 m
TOTAL DEPTH	: 1875m
CONTRACTOR	: DOLPHIN OFFSHORE
RIG	: BYFORD DOLPHIN
TYPE	: SEMI-SUBMERSIBLE

LOG INTERVAL

DEPTH	FROM :	101 m	TO :	1875m
DATE	FROM :	17/02/93	TO :	26/02/93

SCALE : 1:500 UNIT : 503

CREW : D. Alsop, S. Alexander, V. Surla

HOLE SIZE

36"	TO	137 m
17.5"	TO	364 m
12.25"	TO	1017m
8.5"	TO	1875m

CASING RECORD

30"	AT	136 m
13.375"	AT	355.37 m
9.625"	AT	1007.42m
	AT	
	AT	

MUD TYPES

Sea Water/Hi-Vis Sweeps	TO	364m
KCL/PHPA polymer	TO	1875m
	TO	

LITHOLOGY SYMBOLS

Limestone
Dolomite
No Returns
Fossil
Coal And Lignite
Claystone
Shale
Siltstone
Sandstone
Conglomerate
Chert
Volcanics

EXLOG SUITE

Formation Evaluation Log
Wireline Data Pressure Log
Drilling Data Pressure Log
Pressure Evaluation Log
Temperature Data Log
DrillByte Computer Logs

ABBREVIATIONS

NB	NEW BIT	SVG	SURVEY GAS
RRB	RERUN BIT	C	CARBIDE TEST
CB	CORE BIT	W	MUD DENSITY _ sg
WOB	WEIGHT ON BIT	V	FUNNEL VISCOSITY
RPM	REVS PER MINUTE	F	FILTRATE - API
FLC	FLOW CHECK	FC	FILTER CAKE
CR	CIRCULATE RETURNS	PV	PLASTIC VISCOSITY
PR	POOR RETURNS	YP	YIELD POINT
NR	NO RETURNS	SOL	SOLIDS - %
LAT	LOGGED AFTER TRIP	SD	SAND - %
BG	BACKGROUND GAS	S	SALINITY - PPM
TG	TRIP GAS	RM	MUD RESISTIVITY
STG	SHORT TRIP GAS	RMF	MUD FILTRATE
CG	CONNECTION GAS		
SG	SWAB GAS		

◣	CASING SEAT	⌇	WIRELINE LOG RUN
▮	CORED INTERVAL	◧	TEST INTERVAL
▯	UNRECOVERED	◢	CONNECTION
▶	SIDEWALL CORE	▷	SIDEWALL CORES (EMPTY)

GAS - 100 Total Gas units equivalent to 2% methane.

OIL - Based on live oil in unwashed and stain of washed cuttings

DEPT. NAT. RES & ENV
PE600077

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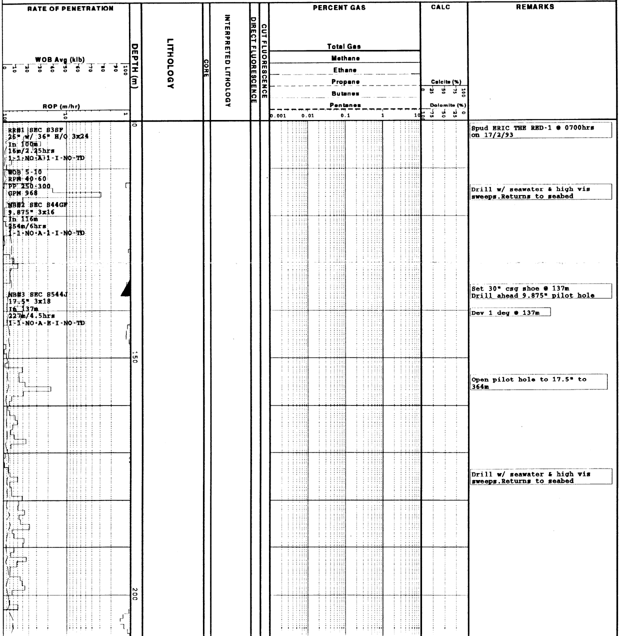
DRILLBYTE FORMATION EVALUATION LOG

ERIC THE RED - 1

Scale 1 : 500



Spud ERIC THE RED-1 @ 0700hrs on 17/2/93

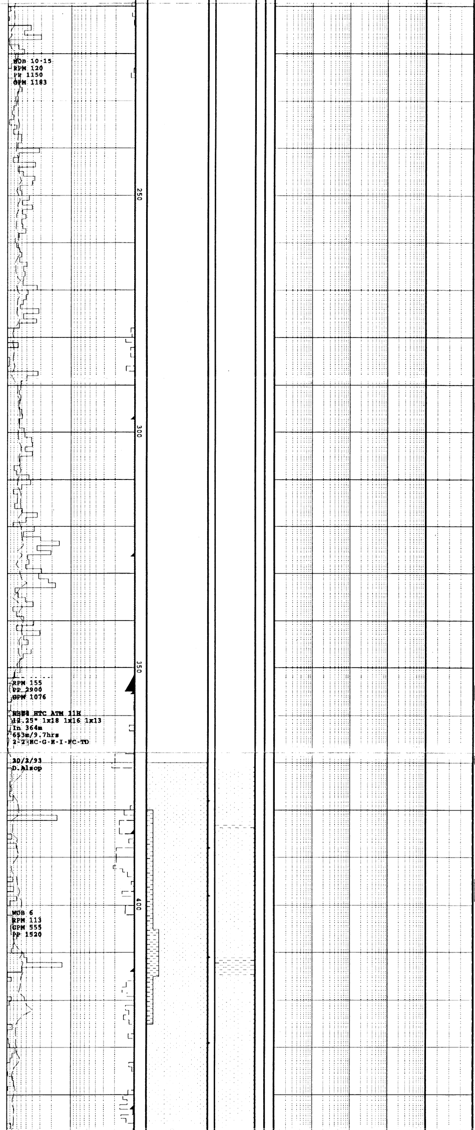
Drill w/ seawater & high vis sweeps.Returns to seabed

Set 30" csg shoe @ 137m
Drill ahead 9.875" pilot hole

Dev 1 deg @ 137m

Open pilot hole to 17.5" to 364m

Drill w/ seawater & high vis sweeps.Returns to seabed



Returns to seabed

Returns to seabed

Returns to seabed

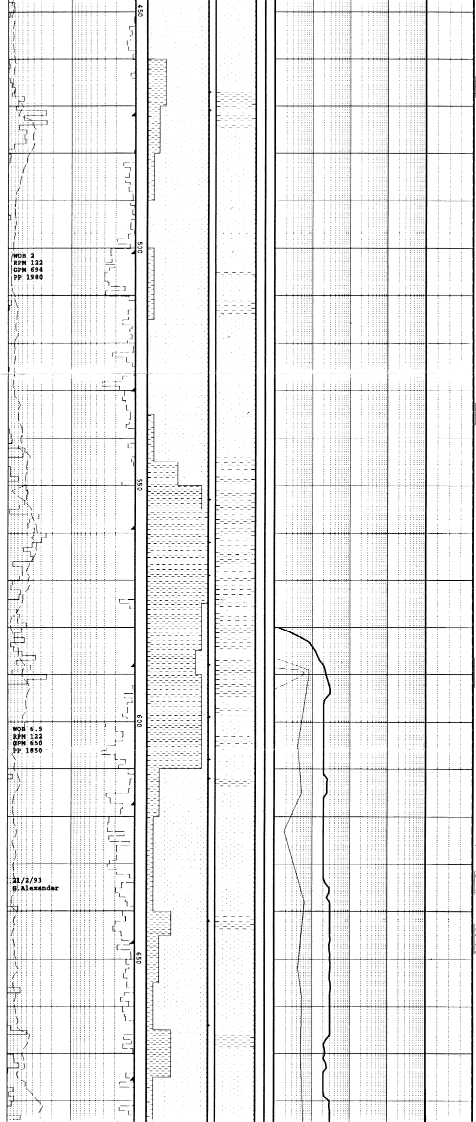
Set 13.375" csg @ 355m
Drill ahead 12.25" hole

Dev 0.5 deg @ 370m

SANDSTONE:gy brn-brn blk,fri, m-c,dom m,wrnd-sbrnd,mod srt, dk gy liths (laterite),fe stn qtz grns,gd vis por,no show

Survey @ 396m
In 1.1 deg
Az 309.1

CLAYSTONE:brn gy-lt brn gry, sft,disp,tr slt



SANDSTONE:lt gy,lse,f-c,dom m sbang-rnd,mod srtd,gd vis por no show

W 1.08,V 58,PV/YP 18/29,Gels 5/6,F 14,FC 1,Sol 5,Sd 2,pH 9 Cl 33k,Ca 240

CLAYSTONE:brn gy-lt brn gry, sft,disp,poss chlor i/p,tr slt,tr vf qtz

SANDSTONE:lt gy-pl brn,fri, com lse grns,m-c,occ vf-vc, sbrnd-rnd,mod srtd,occ fe stnd qtz,tr brn-gry arg mtx, rr calc cmt,tr-occ pyr,gd inf por,no shows

Survey @ 542m
In 1.3 deg
Az 273.3

SANDSTONE:lt gy,clr-transl, fri-lse,f-c,dom m,rnd-sbang, mod srtd,gd vis por,no show

CLAYSTONE:dk gy,dk brn gy,sft frm,tr pyr,tr mic,tr f-c sd, mas

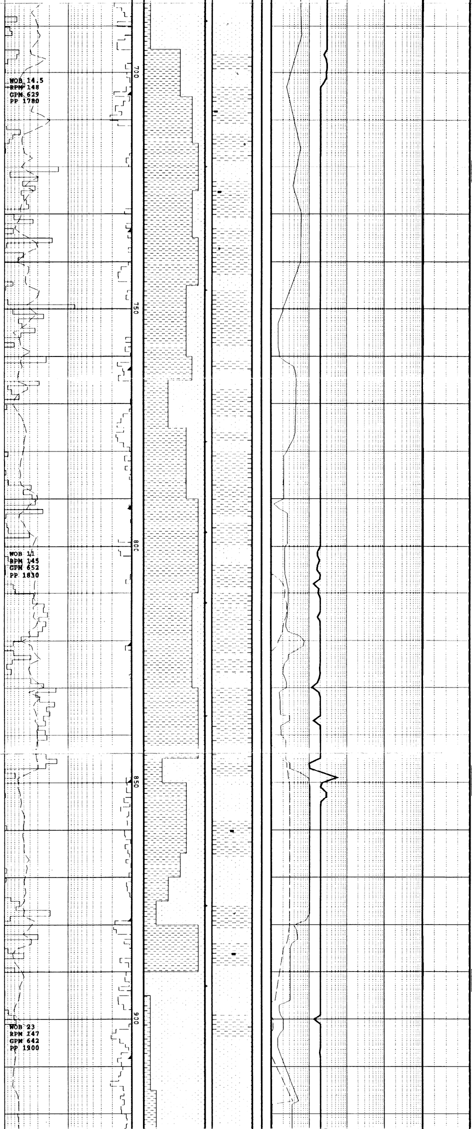
Carbide @ 588m
Theor 2296 stks
Act 3148 stks
Av Hole 17.24"

CLAYSTONE:dk gy,dk brn gy,sft frm,tr pyr,tr mic,tr-10% f-c snd,mas

SANDSTONE:lt gy,transl,fri,m-vc,dom c,pr srt,sbang-rnd,dom sbang,tr mic,gd vis por

W 1.08,V 53,PV/YP 18/22,Gels 3/4,F 7,FC 1,Sol 5,Sd 0.75,pH 9.5,Cl 33k,Ca 240

Carbide @ 644m
Theor 2464 stks
Act 3667 stks
Av Hole 17.2"



SANDSTONE:lt gy,transl,fri,m-vc,pr-mod srt,sbang-rnd,tr pyr,tr mic,gd vis por

CLAYSTONE:med dk gy,sft-occ frm,tr f snd,tr carb dtrl,tr glau,mas

Survey @ 718m
In 0.8 deg
Az 302.1

CLAYSTONE:med-dk gy,sft-occ frm,tr-com snd,tr pyr,tr carb dtrl,tr mic,mas

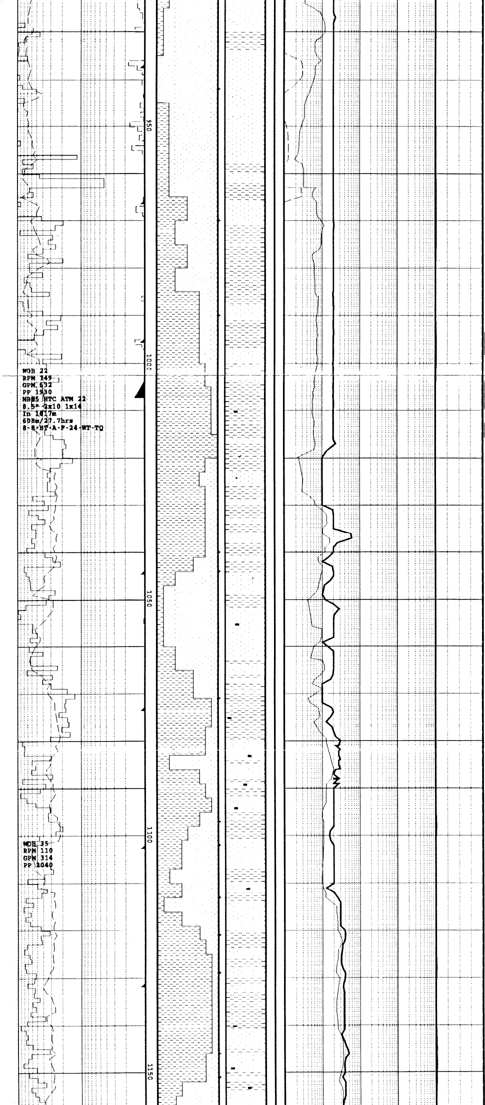
CLAYSTONE:med-dk gy,frm-occ hd,tr pyr,tr carb dtrl,mas intbed w/ minor SANDSTONE a/a

Carbide @ 848m
Theor 3078 stks
Act 4080 stks
Av Hole 15.2"

SANDSTONE:lt gy,off wh,fri,f-vc,dom m-c,pr srt,sbang-rnd, dom sbrnd,v gd vis por

Survey @ 891m
In 0.4 deg
Az 210

SANDSTONE:lt gy,fri,f-vc,dom m-c,pr srt,sbang-rnd,dom sbang,tr yel liths,tr carb dtrl,gd vis por,no show



CLAYSTONE:med-dk gy,sft,stky,
tr-com f snd,tr carb dtrl,tr
glau,mas

Survey @ 1001m
In 0.4 deg
Az 221.2

Run E-logs @ 1017m
DLL-MSFL-SDT-GR-CALS-SP-AMS
VSP
CST

Set 9.625" csg @ 1007.4m.
Drill ahead 8.5" hole

CLAYSTONE:dk gy,occ med gy,
sft-frm,mod hd i/p,tr-com f
sd,mas

SANDSTONE:lt gy,clr-transl,f-
c,dom m-f,tr pyr,tr glau, tr
dk gy lith tr-com calc cmt,,
mod inf por,mod bri yel min
fluor,no cut

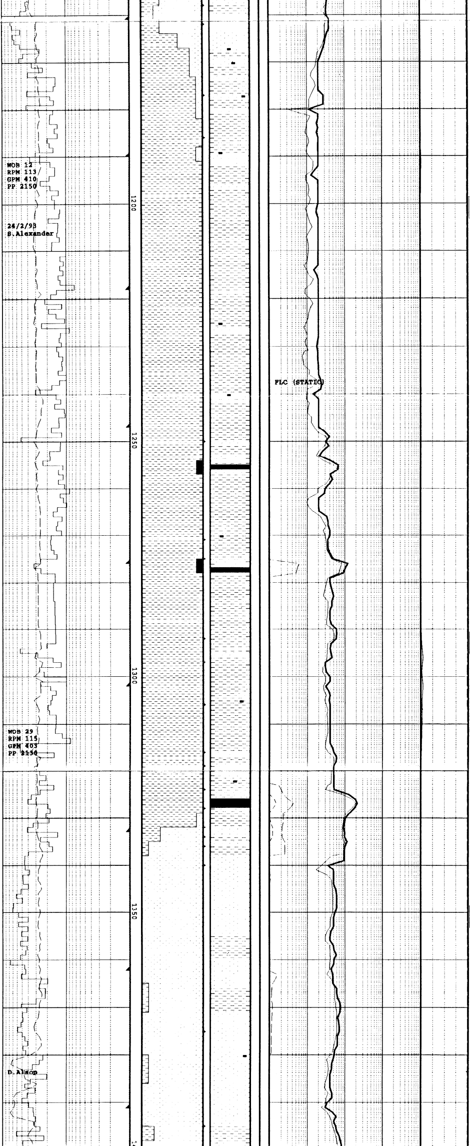
SANDSTONE:lt gy,clr-transl,
fri w/ lse grns,f-vc,dom m-c,
p-mod srtd,sbrnd-sbang,tr
calc cmt,tr carb spks,gd inf
por,no show,

CLAYSTONE:dk gy,sft-frm,mod
hd i/p,tr-com f sd,mas

SANDSTONE:lt gy,clr-transl,
fri,f-vc,dom m-c,p-mod srtd,
sbrnd-sbang,tr calc cmt,tr
carb spks,gd inf por,no show,

CLAYSTONE:dk gy,sft-frm,mod
hd i/p,tr-com f sd,mas

Survey @ 1150m
In 0.1 deg
Az 115.4



SANDSTONE:lt gy,clr-transl, fri,f-vc,dom m-c,p-mod srtd, sbrnd-sbang,tr calc cmt,tr carb spks,gd inf por,no show

CLAYSTONE:lt-dk gy,sft-frm, mod hd i/p,tr-com f sd,mas

W 1.08,V 48,PV/YP 14/20,Gel 3
4,F 7,FC 1,Sol 5,Sd 0.5,pH 10
2,Cl 37k,Ca 110

CLAYSTONE:lt-med gy,med ol gy sft-occ frm,tr f-m snd,tr carb dtrl,mas
intbed w/ trace:
COAL:blk,hd,blky,ang-sbconch

COAL:blk,hd,blky,ang-sbconch frac,vit i/p

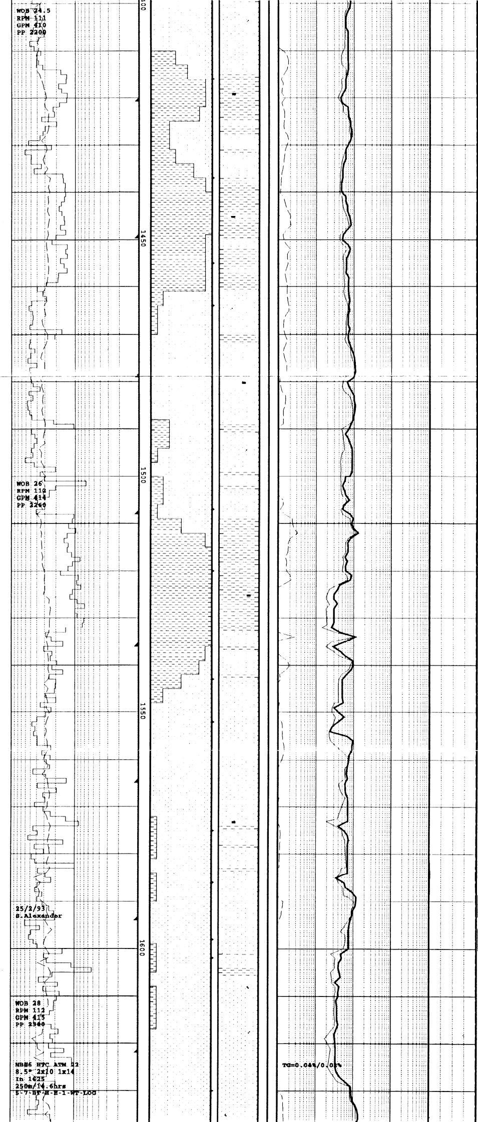
CLAYSTONE:med gy,occ lt gy, sft-occ frm,tr slt,tr f snd, tr carb dtrl,blky i/p

Survey @ 1292m
In 0.3 deg
Az 110.2

CLAYSTONE:lt-med gy,sft-frm i p,blky,tr slt,tr carb dtrl
intbed w/ minor
SANDSTONE:lt gy,transl,fri,m-vc,dom c,w srt,rnd-wrnd,gd vis por,no show

W 1.10,V 68,PV/YP 20/30,Gels
4/7,F 6,FC 1,Sol 6,Sd 0.5,pH
9,Cl 40k,Ca 150

SANDSTONE:lt gy,clr-transl, fri w/,lse grns,m-vc,dom c, mod srtd,sbrnd-sbang,tr carb, tr pyr,tr rock flour,tr kaolin?,gd inf por,no show



CLAYSTONE:lt-med gy,sft-frm i p,blky,tr slt,tr carb dtrl

Survey @ 1439m
In 0.4 deg
Az 355.2

CLAYSTONE:lt-med gy,sft-frm i p,blky,tr slt,tr carb

SANDSTONE:lt gy,clr-transl, fri w/ occ lse grns,m-vc,dom c,mod srtd,sbrnd-sbang,tr carb,tr pyr,tr min flour,tr kaolin?,gd inf por,no show

W 1.08,V 58,PV/YP 18/24,Gels 4/5,F 6,FC 1,Sol 5,Sd 0.2,pH 9,Cl 42k,Ca 190

CLAYSTONE:m brn gy,dom m gy, sft-frm i/p,sl disp,aren,sl slty,mas

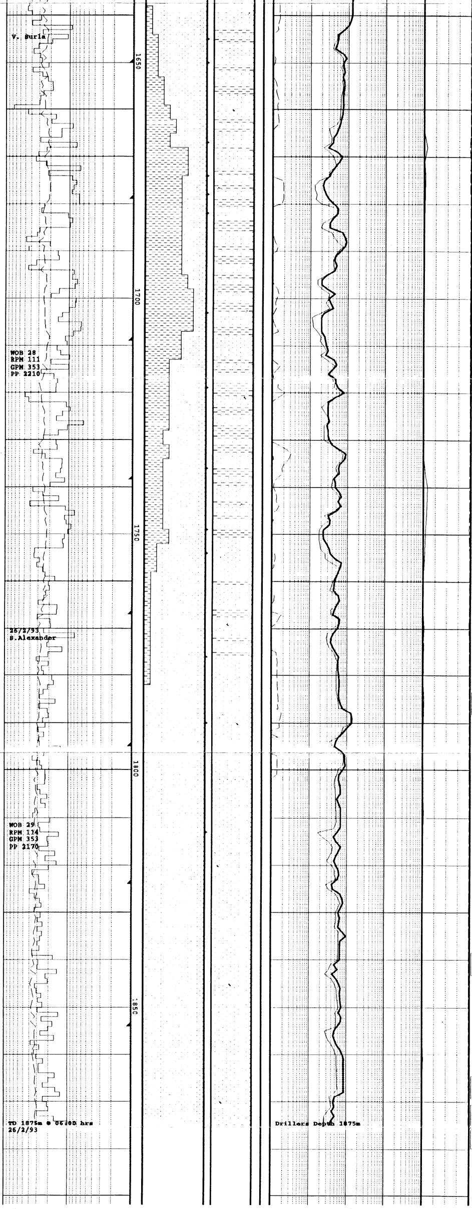
SANDSTONE:lt gy,lt grn i/p, fri-frm i/p,occ lse grns,f-vc dom c,p srtd,sbrnd-sbang,tr sil cmt,tr-com rd & grn qtz, gd inf por,no show

SANDSTONE:lt gy,fri,f-vc,dom c,pr srt,sbang-sbrnd,tr-com off wh arg mtx,tr rd & gn qtz
gd inf por,no show
intbed w/ minor
CLAYSTONE:med gy,com brn gy, frm,tr slt,tr carb lam,blky

Survey @ 1584m
In 0.7 deg
Az 290.2

W 1.08,V 55,PV/YP 18/24,Gels 4/5,F 6,FC 1,Sol 5,Sd 0.5,pH 9,Cl 41k,Ca 110

SANDSTONE:lt gy,transl,fri,f-vc,dom m-c,pr srt,sbang-sbrnd tr-com arg mtx,tr pyr,tr rd & yell grns,tr mic,gd vis por, no show



W 1.10,V 51,PV/YP 16/20,Gels 3/4,F 5,FC 1,Sol 6,Sd 0.25,pH 9,Cl 40k,Ca 120

LITHIC SANDSTONE:wh-lt gy,occ lt brn,fri-frm,f-c,pr srt,v com wh disp arg mtx,occ sil cmt,sbrnd-sbang,occ bk flks, occ qtz grns,occ wh-brn-lt grn lith,fr vis por,no show w/intbed
CLAYSTONE:wh-pl brn,occ brn i p,sft-mas,mod disp

SANDSTONE:wh-brn,v com lt gy-gy,f-c,sbang-sbrnd,mod srt,v com wh arg disp mtx,occ pl brn arg mtx,occ sil cmt,com bk-grn-yel lith,occ pyr,frm-hd,occ lse grns,no show

CLAYSTONE:wh-brn,occ lt gy i/p,sft-frm,v disp i/p

Survey @ 1728m
In 0.4 deg
Az 203.0

SANDSTONE:lt gy,transl,fri w/ v com lse grs,vf-vc,dom m-c, pr srt,sbang-sbrnd,v com arg mtx,tr chert,gd vis por,no show

W 1.09,V 52,PV/YP 16/22,Gels 4/5,F 5.2,FC 1,Sol 5.6,Sd tr, pH 9.3,Cl 39k,Ca 120

W 1.10,V 54,PV/YP 19/21,Gels 4/6,F 5.2,FC 1,Sol 6,Sd 0.5, pH 9,Cl 41k,Ca 200

SANDSTONE:lt gy,off wh,rr pl gn,rr rd-brn,fri w/ com lse grns,vf-c,dom m-c,sbang-sbrnd com pl gy arg mtx,occ chert, gd vis por,no show

Survey @ 1867m
In 1.1 deg
Az 229.7

Run E-logs @ 1875m
DLL-MSFL-SDT-GR-CALS-SP-AMS
FMS-LDT-CNL-GR-AMS
VSP
RFT
CST