DEPT. NAT. RES & ENV
PE603000

ESSO AUSTRALIA RESOURCES LTD.

WELL COMPLETION LOG Scale - 1:500 1280-3100mMD, 1:200 3100m-TD

BLACKBACK A-1A

Gippsland Basin, Victoria
Concession: VIC/L20

POST-DRILL LOCATION: *(Top of Latrobe)*	Latitude:38° 32' 17.9802 "S Longitude: 148° 33' 33.2872 "E AMG X: 635895.18mE AMG Y: 5733286.58mN	**COMPILED BY:**	Sheryl Sazenis
		DRAFTED BY:	Henryk Wojcik
		DRILLED BY:	Sedco Forex 702
ELEVATION:	G.L.: -395.7m R.T.: 26.0m Water Depth: 395.0m	**TOTAL DEPTH:**	3272mMDRT
		PLUGGED BACK T.D.:	3238.2mMDRT
DATES:	Spudded: 06/06/1999 (12.25" hole) Rig Released: 27/06/1999 I.P. Established: 22/08/1999 *(Initial production)*	**CLASSIFICATION:**	Subsea Development
		STATUS:	Oil Well

SERVICE COMPANIES:

DRILLING CONTRACTOR:	Sedco Forex	PRODUCTION TESTING:	---
SURVEYING/MWD:	Anadrill	DIVERS:	Sonsub
CORING:	---	MUD LOGGING:	Geoservices
WIRELINE LOGGING:	Schlumberger	PRESSURE RECORDING:	---
CEMENTING:	Dowell	WELL VELOCITY SURVEY:	Schlumberger
CASING:	Weatherford	MUD ENGINEERING:	Baroid
		LWD:	---

2000 002

LEGEND

2.7m NOS ◒
Ø = 17%
Sw = 32%

LOG ANALYSIS DATA
NS - Net Sand
NOS - Net Oil Sand
NGS - Net Gas Sand
Sw - Water Saturation

☒ *No Rec.* CORE *Rec.*

PERFORATED INTERVAL

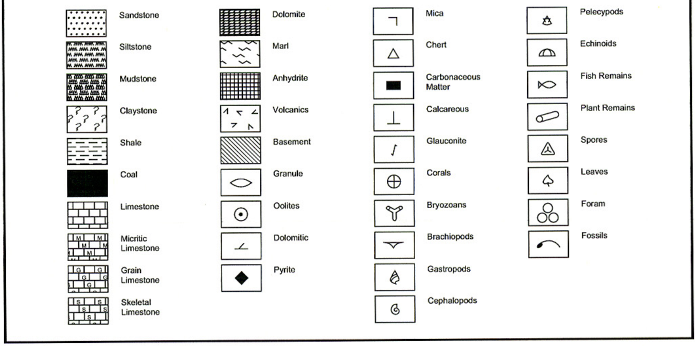
☒ PLUG

MUD DATA
Ø - Porosity
Snd - Sand
MW - Mud Weight
FV - Funnel Velocity
PV - Plastic Velocity
YP - Yield Point
Gel - Gel Strength
pH - Acidity/Alkalinity
WL - Water Loss
Cl - Chloride
Ca - Calcium
Sol - Solids
H2O - Water
Oil -Oil

←SST	RECOVERED SIDE WALL CORE LITHOLOGY
	SST - Sandstone, SLST - Siltstone, MST - Mudstone, SH - Shale, CLST - Claystone, LMST - Limestone, ML - Marl, COAL - Coal
⇽	SIDE WALL CORE - NO RECOVERY
←	FIT
←P2/11	MDT/RFT PRETEST RUN/SEAT NUMBER
←S11/2	MDT/RFT SAMPLE RUN/SAMPLE NUMBER
P2/40	MDT VERTICAL/HORIZONTAL PERMEABILITY TEST
╪	PACKER
□	BRIDGE PLUG

◎	SHOW OR STAIN
◎	HYDROCARBON CUT
◎	FLUORESCENCE
☼	GAS SHOW
●	OIL PRODUCTION
☼	GAS PRODUCTION
◒	INTERPRETED OIL PRODUCTION
☼	INTERPRETED GAS PRODUCTION
◎	INTERPRETED WATER PRODUCTION
○	WATER PRODUCTION
◉	CONDENSATE PRODUCTION
◉	INTEPRETED CONDENSATE BEARING
DSTG ☼	DST WITH GAS RECOVERED
DSTO ◎	DST WITH OIL RECOVERED
Λ	SURVEY POINT
13-3/8" ◢	CASING SHOE
⊿ ⊾	TUBING
↴	MUD

LITHOLOGICAL SYMBOLS


Sandstone
Siltstone
Mudstone
Claystone
Shale
Coal
Limestone
Micritic Limestone
Grain Limestone
Skeletal Limestone
Dolomite
Marl
Anhydrite
Volcanics
Basement
Granule
Oolites
Dolomitic
Pyrite
Mica
Chert
Carbonaceous Matter
Calcareous
Glauconite
Corals
Bryozoans
Brachiopods
Gastropods
Cephalopods
Pelecypods
Echinoids
Fish Remains
Plant Remains
Spores
Leaves
Foram
Fossils

LOGGING AND SURVEYING

Log	Interval (mMDRT)	Survey	Interval (mMDRT)
1. PEX(AIT)-HNGS-DSI	1288 - 3275	MWD(Directional)	1289.16 - 3255.17
Checkshot Survey	1250 - 3170		

WELL DATA

Date	23/06/99	23/06/99		
Run	1	2		
Log	PEX(AIT)-HNGS-DSI	CSAT-GR		
Depth Driller	3272m MDRT	3272mMDRT		
Depth Logger	3275 mMDRT	Not logged		
Bottom Log Interval	3275 mMDRT	3170mMDRT		
Top Log Interval	1270 mMDRT	1250mMDRT		
Casing Driller	13.375" @ 1302 mMDRT	13.375" @ 1302mMDRT		
Casing Logger	13.375" @ 1302 mMDRT	Not logged		
Casing Size	13.375"	13.375"		
Casing Weight	68ppf	68ppf		
Bit Size	12.250	12.250		
Type of Fluid in Hole	PETROFREE	PETROFREE		
Density	10.6lb/gall	10.6lb/gall		
Rm @ Measured Temp.	-	-		
Rmf @ Measured Temp.	-	-		
Rmc @ Measured Temp.	-	-		
Max. Recorded Temp.	-	-		
Equipment / Location	33 VEA	33 VEA		
Recorded By	J. Scandalariaris/D. Wong	J. Scandalariaris/D. Wong		
Witnessed By	G. Clota	G. Clota		

CORES

From (mMDRT)	To (mMDRT)	Rec %
3172 (drl)	3199.4 (drl)	100%
3176.1 (wl)*	3203.5 (wl)*	

* depth shifted +4.1m

PERFORATIONS

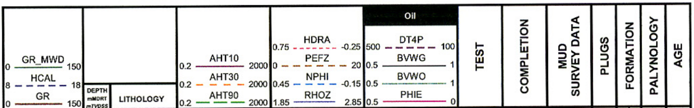
From (mMDRT)	To (mMDRT)	Shots/ft
3174.0	3185.0	12

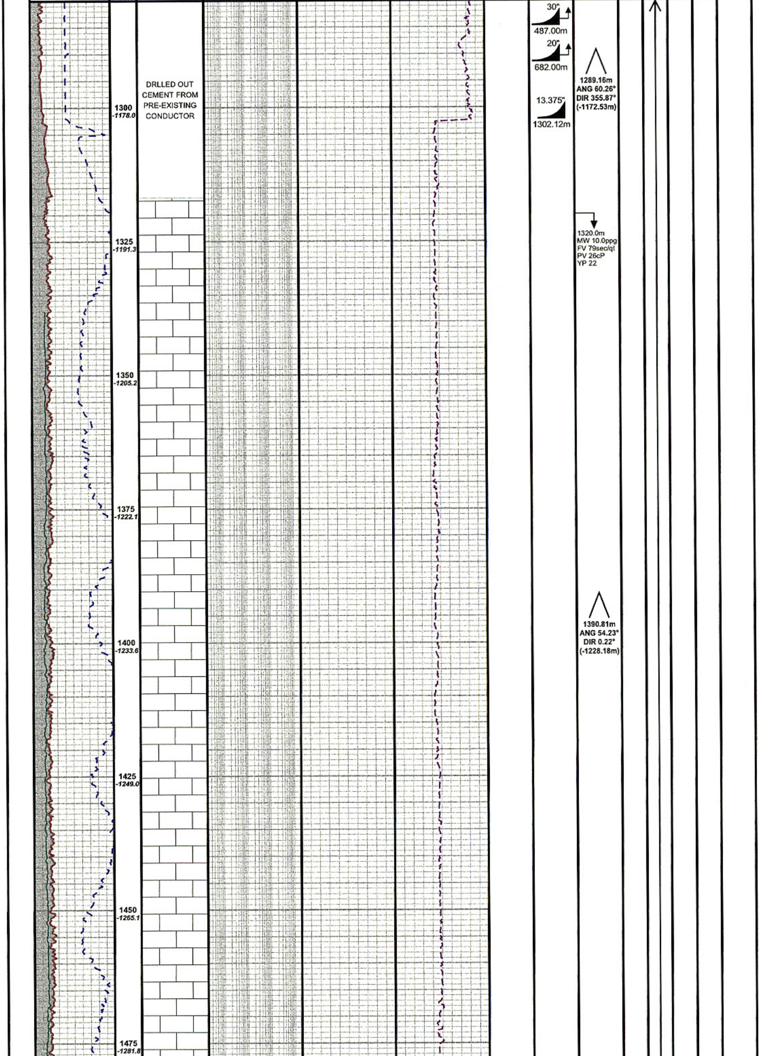
CASING

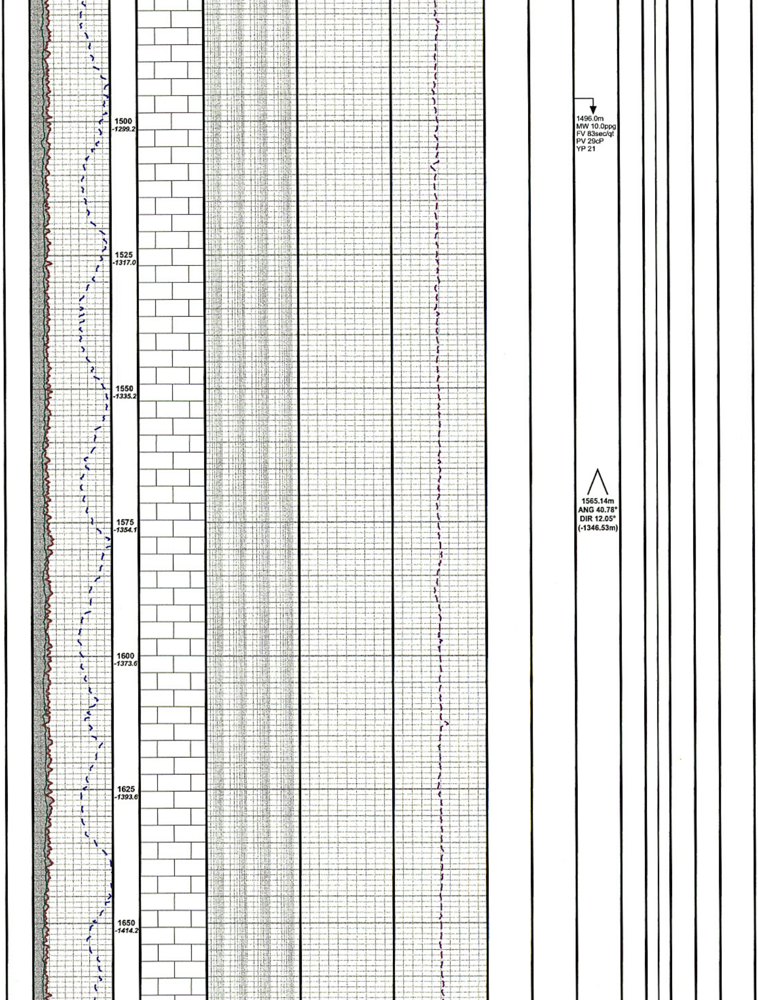
Size	Set @ (mMDRT)	Sx Cmt	Formation
30"	487.00	1040	Gippsland Limestone
20"	682.00	1635	Gippsland Limestone
13.375"	1302.12	948	Gippsland Limestone
9.625"	3261.94	738	Latrobe Group

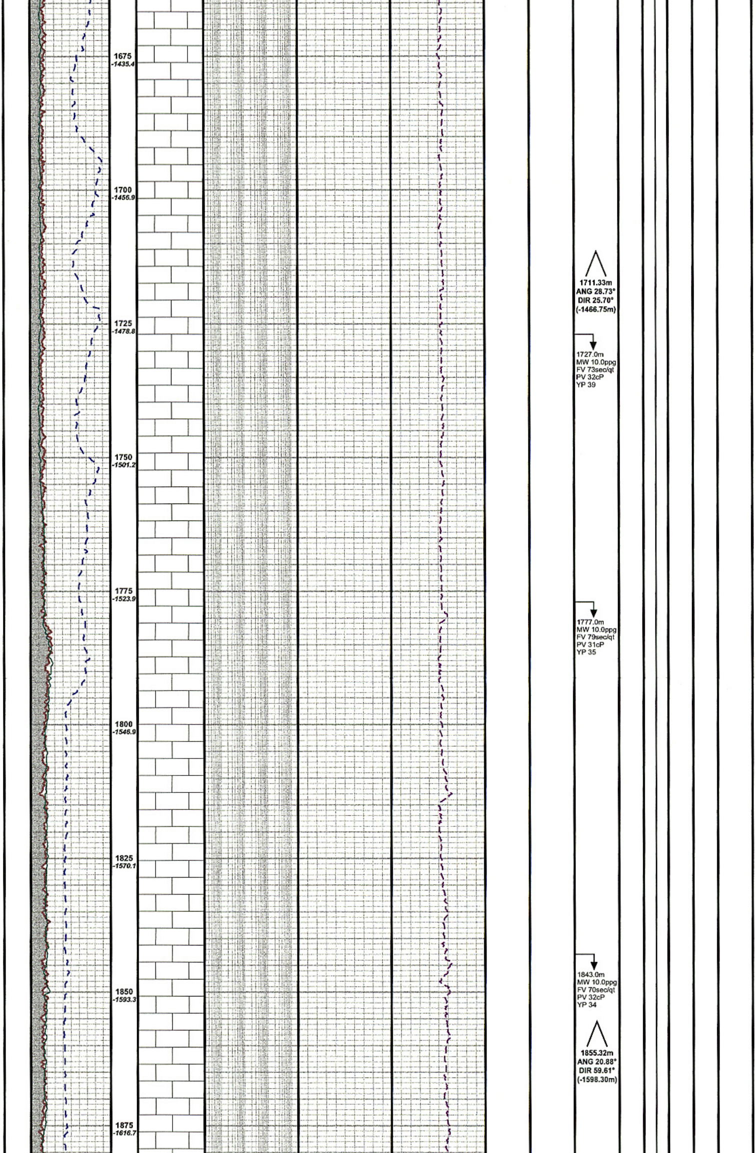
PLUGS

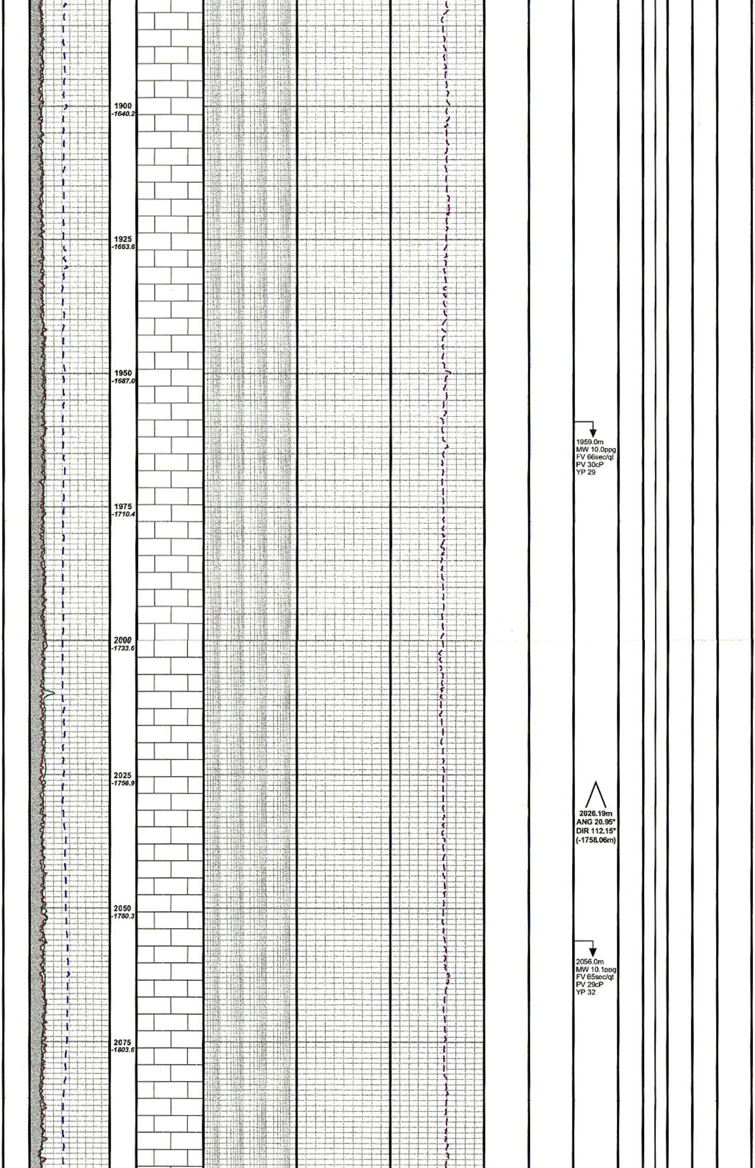
From (mMDRT)	To (mMDRT)	Sx Cmt

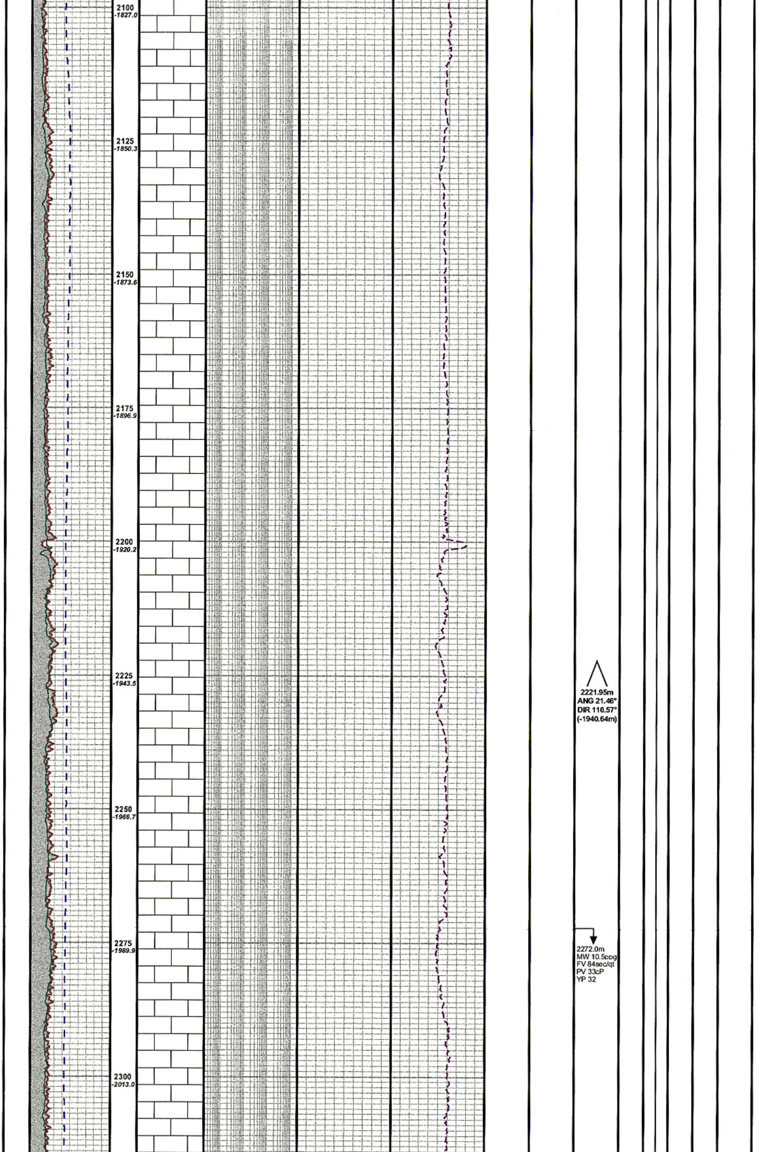

GR_MWD 0 150
HCAL 8 18
GR 0 150
DEPTH mMDRT mTVDSS
LITHOLOGY
AHT10 0.2 2000
AHT30 0.2 2000
AHT90 0.2 2000
HDRA 0.75 -0.25
PEFZ 0 20
NPHI 0.45 -0.15
RHOZ 1.85 2.85
Oil
DT4P 500 100
BVWG 0.5 1
BVWO 0.5 1
PHIE 0.5 0
TEST
COMPLETION
MUD SURVEY DATA
PLUGS
FORMATION
PALYNOLOGY
AGE

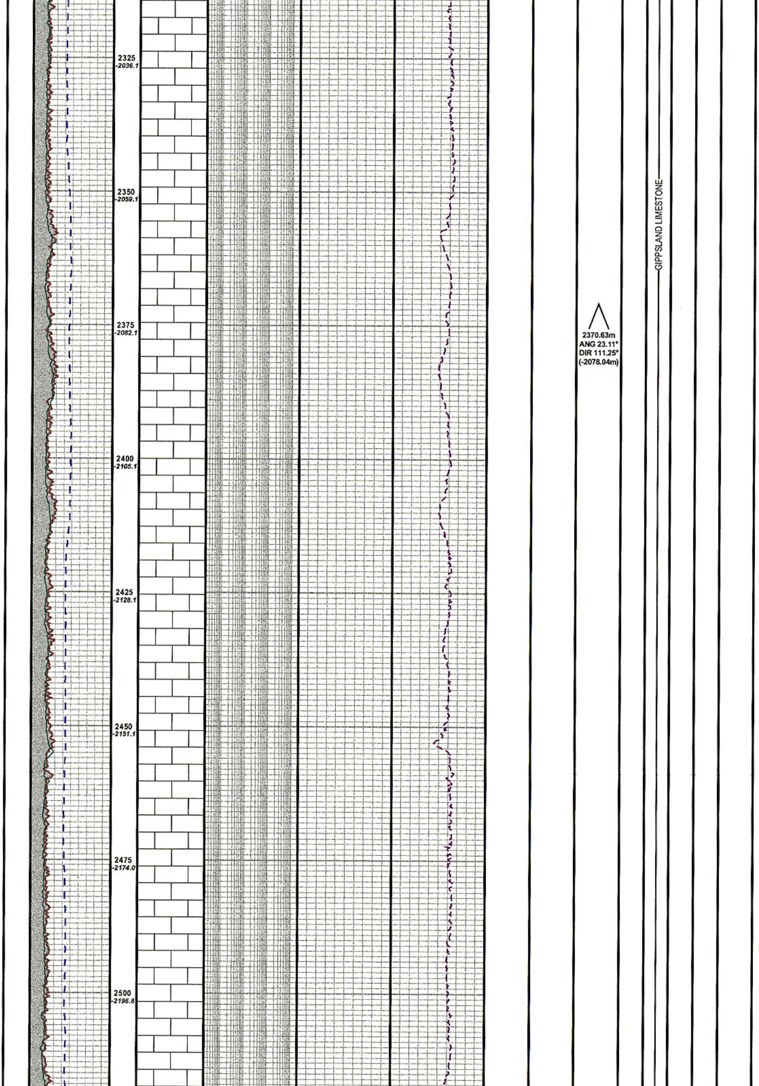


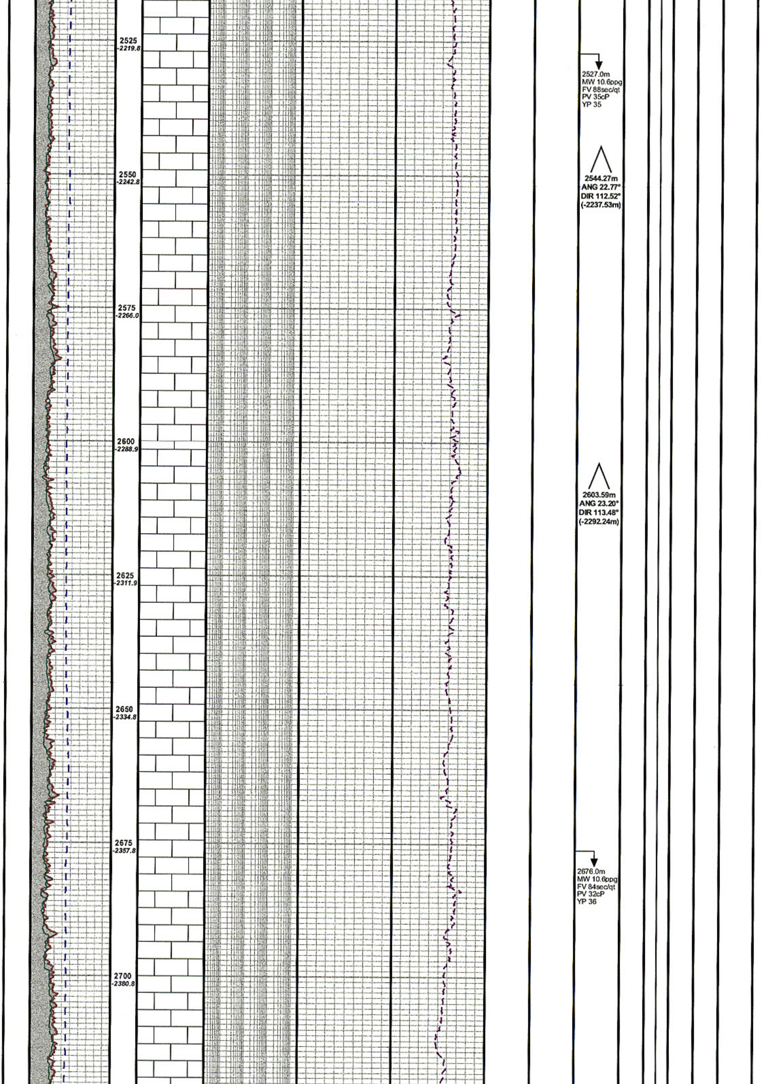


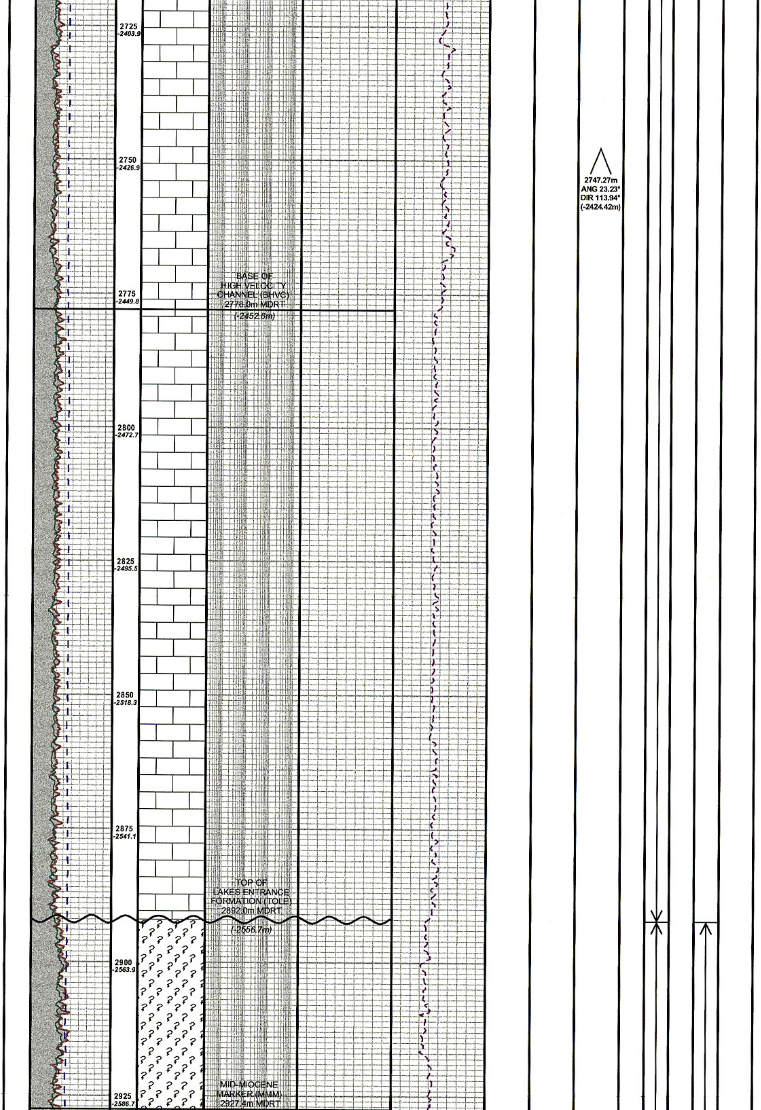


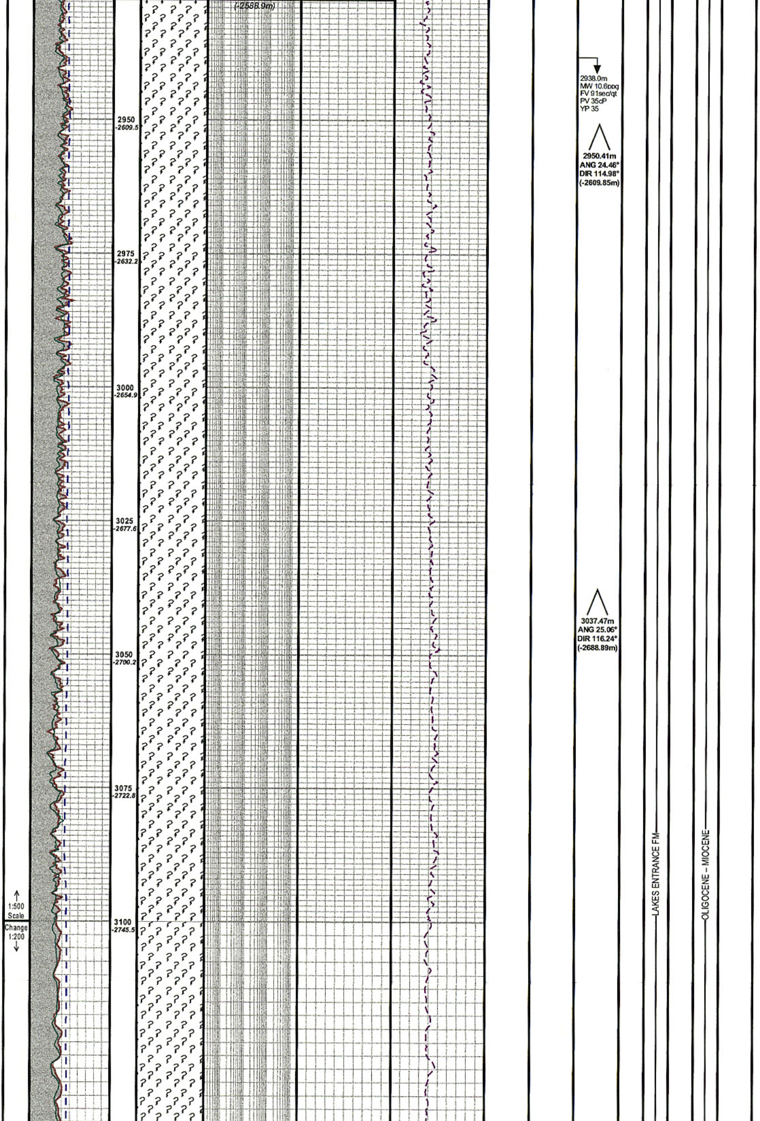


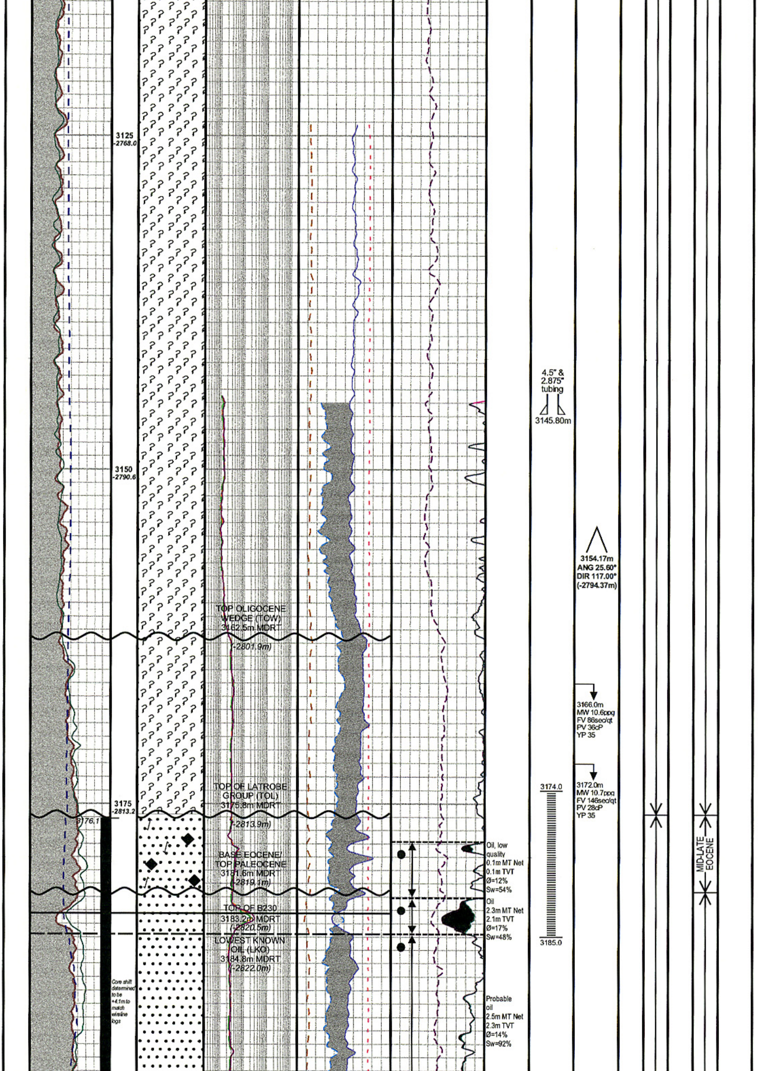


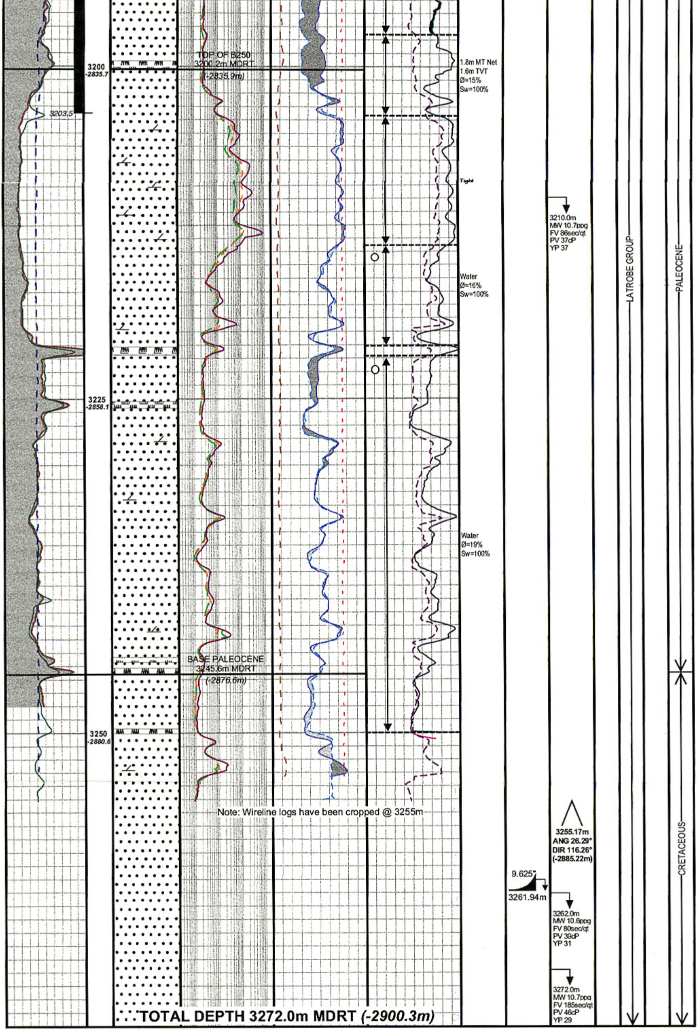












HCAL	Caliper
GR	Gamma Ray
GR_MWD	MWD Gamma Ray
AHT90	Resistivity Deep (Induction)
AHT30	Resistivity Medium (Induction)
AHT10	Resistivity Shallow (Induction)
RHOZ	Bulk Density
NPHI	Neutron Porosity
HDRA	Density Correction
PEFZ	Photoelectric Cross Section
PHIE	Effective Porosity
BVWG	Bulk Volume Water-Gas
BVWO	Bulk Volume Water-Oil
DT4P	Sonic

BLACKBACK A-1A
Initial Production (22/08/99)
3 KSTBD at 0% Watercut