DEPT. NAT. RES & ENV
PE602997

ESSO AUSTRALIA RESOURCES LTD.

WELL COMPLETION LOG Scale - 1:200

BLACKBACK A-3

Gippsland Basin, Victoria
Concession: VIC/L20

POST-DRILL LOCATION: *(Top of Latrobe)*	Latitude:38° 32' 52.5572"S Longitude: 148° 33' 32.1288"E AMG X: 635849.06mE AMG Y: 5732221.20mN	**COMPILED BY:**	Sheryl Sazenis
		DRAFTED BY:	Henryk Wojcik
		DRILLED BY:	Sedco 702
ELEVATION:	G.L.: -395m R.T.: 26.0m Water Depth: 395m	**TOTAL DEPTH:**	3913m MDRT
		PLUGGED BACK T.D.:	Not plugged back
DATES:	Spudded: 28/06/1999 (12.25" hole) Rig Released: 23/08/1999 I.P. Established: 20/08/1999 *(Initial production)*	**CLASSIFICATION:**	Subsea Horizontal Development
		STATUS:	Oil Well
SERVICE COMPANIES:			
DRILLING CONTRACTOR:	Sedco Forex	PRODUCTION TESTING:	----
LWD/MWD:	Schlumberger/Anadrill	DIVERS:	----
GYRO SURVEYING:	SDI	MUD LOGGING:	Geoservices
CORING:	----	PRESSURE RECORDING:	----
WIRELINE LOGGING:	----	WELL VELOCITY SURVEY:	----
CEMENTING:	Dowell	MUD ENGINEERING:	Baroid
CASING:	Weatherford	LINER:	Baker

2000 005

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.

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

PERFORATED INTERVAL

PLUG

←SST RECOVERED SIDE WALL CORE LITHOLOGY

SST - Sandstone	CLST - Claystone
SLST - Siltstone	LMST - Limestone
MST - Mudstone	ML - Marl
SH - Shale	COAL - Coal

◁ SIDE WALL CORE - NO RECOVERY

← FIT

←P2/11 MDT/RFT PRETEST RUN/SEAT NUMBER

←S11/2 MDT/RFT SAMPLE RUN/SAMPLE NUMBER

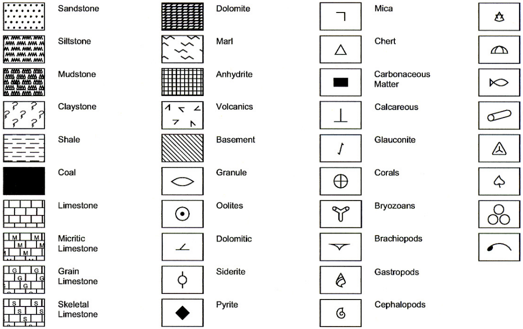
P2/40 MDT VERTICAL/HORIZONTAL PERMEABILITY TEST

╪ 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
Siderite
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

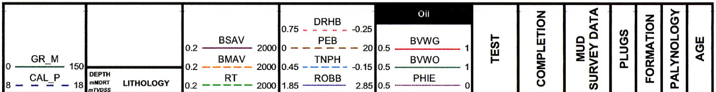
Log	Interval (mMDRT)	Survey	Interval (mMDRT)
1. LWD (RAB/ADN/Directional)	3341-3913	Gyro	1173.0 - 3311.0
		EMS (Directional)	489.0 - 1173.0
		MWD (Directional)	1211.0 - 3355.0

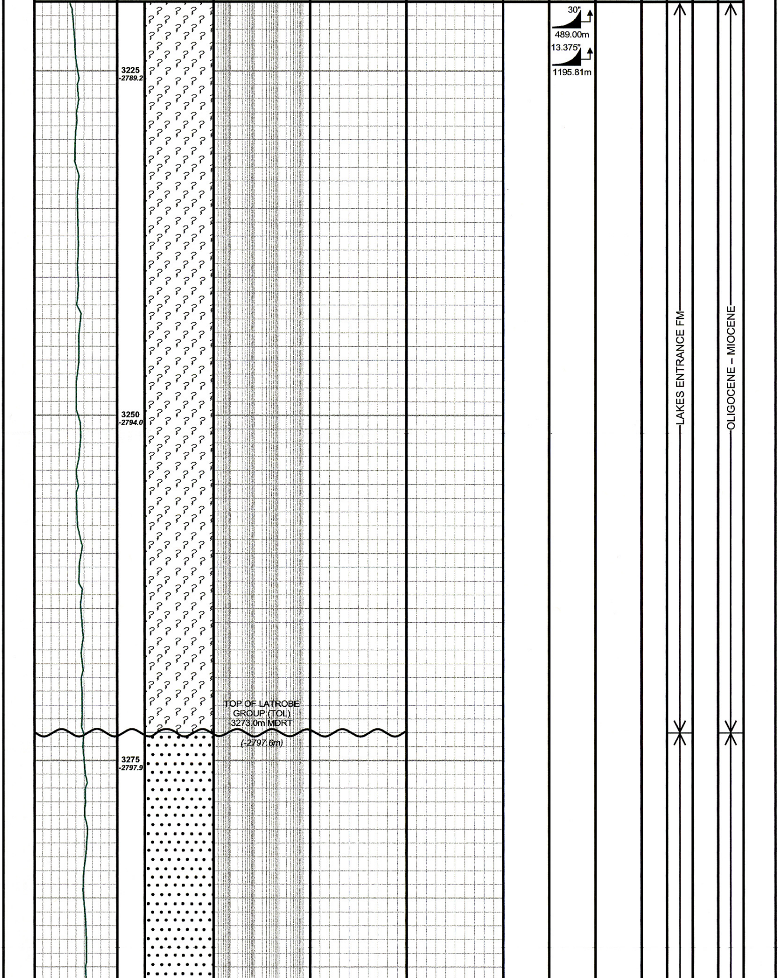
WELL DATA

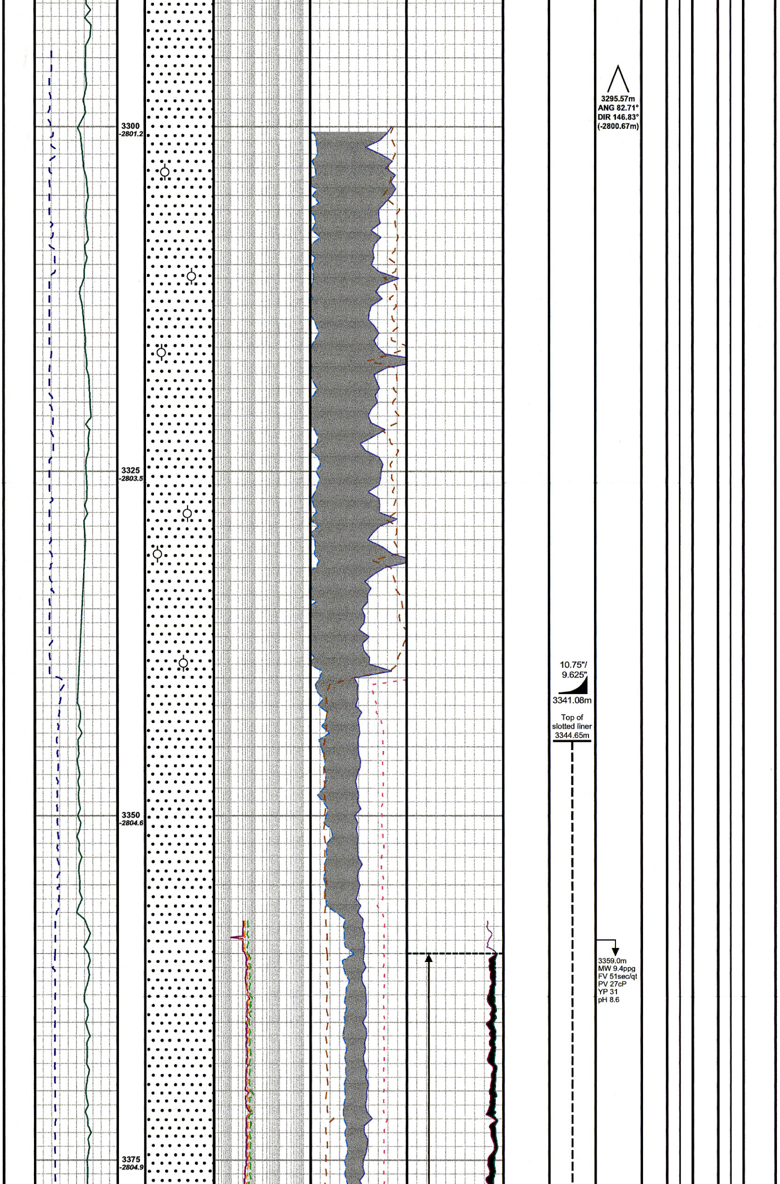
Date	25-29/07/1999			
Run	1 (LWD)			
Log	RAB-ADN			
Depth Driller	3913mMDRT			
Depth Logger	3913mMDRT			
Bottom Log Interval	3913mMDRT			
Top Log Interval	3341mMDRT			
Casing Driller	3341mMDRT			
Casing Logger	3341mMDRT			
Casing Size	9.625"			
Casing Weight	47ppf			
Bit Size	8.5"			
Type of Fluid in Hole	Baradril-N			
Density	9.9ppg			
Rm @ Measured Temp.	0.085Ωm@18°C			
Rmf @ Measured Temp.	0.073Ωm@18°C			
Rmc @ Measured Temp.	0.116Ωm@18°C			
Max. Recorded Temp.	89°C@3894mMDRT			
Equipment / Location	ADN093 TNPH/VEA			
Recorded By	A Strahan/B Murdoch/T Chau			
Witnessed By	Greg Clota/Eliza King			

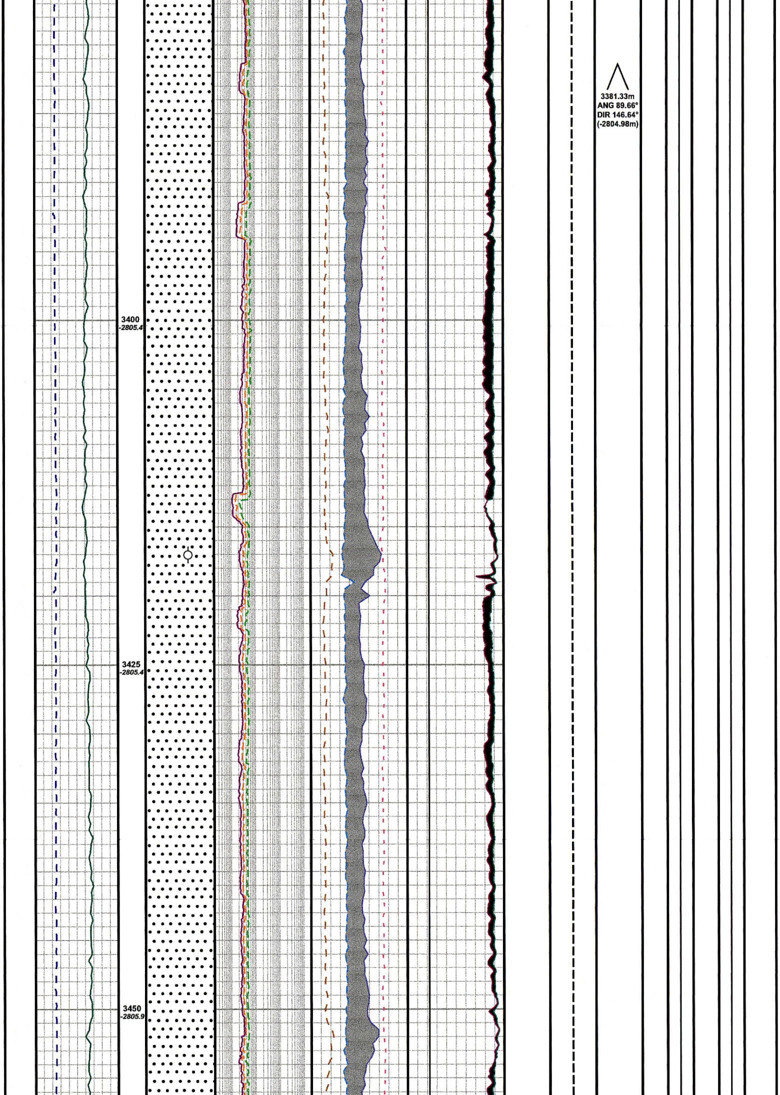
CORES			PERFORATIONS (SLOTTED LINER)		
From (mMDRT)	To (mMDRT)	Rec %	From (mMDRT)	To (mMDRT)	Shots/ft
----			3344.65	3895.88	Slotted Liner

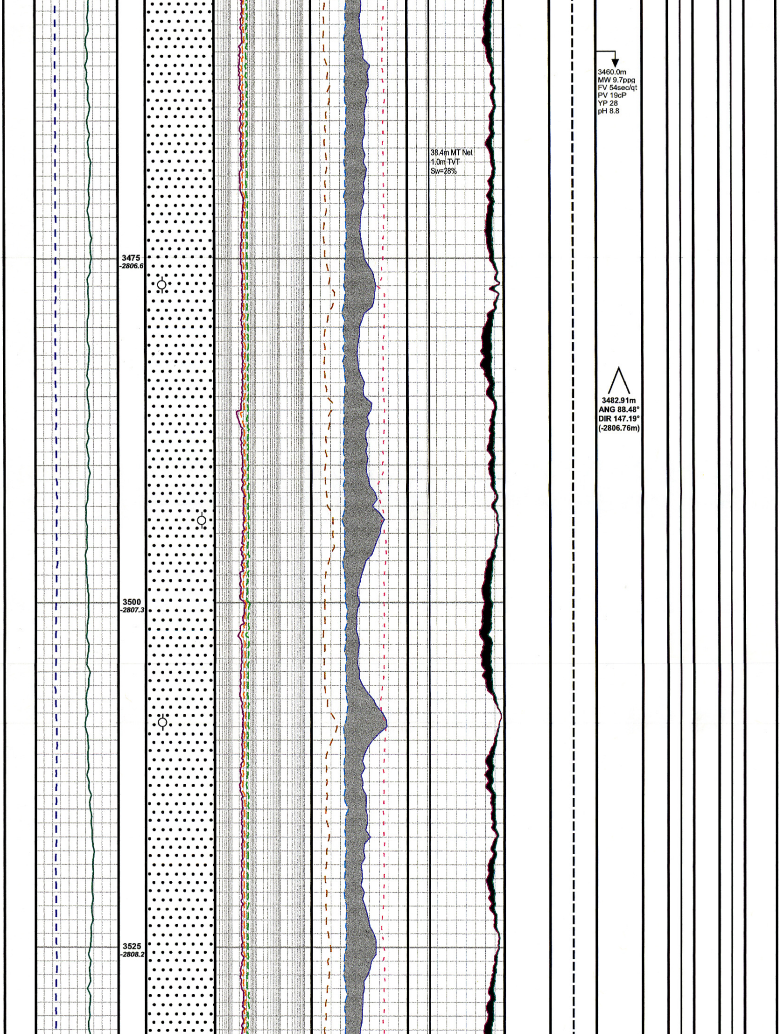
CASING				PLUGS		
Size	Set @ (mMDRT)	Sx Cmt	Formation	From (mMDRT)	To (mMDRT)	Sx Cmt
30"	489	1069	Gippsland Limestone			
13.375"	1195.81	1720	Gippsland Limestone			
10.75"/9.625"	3341.08	733	Latrobe Formation			
5.5"	3907.0	Slotted Liner	Latrobe Formation			

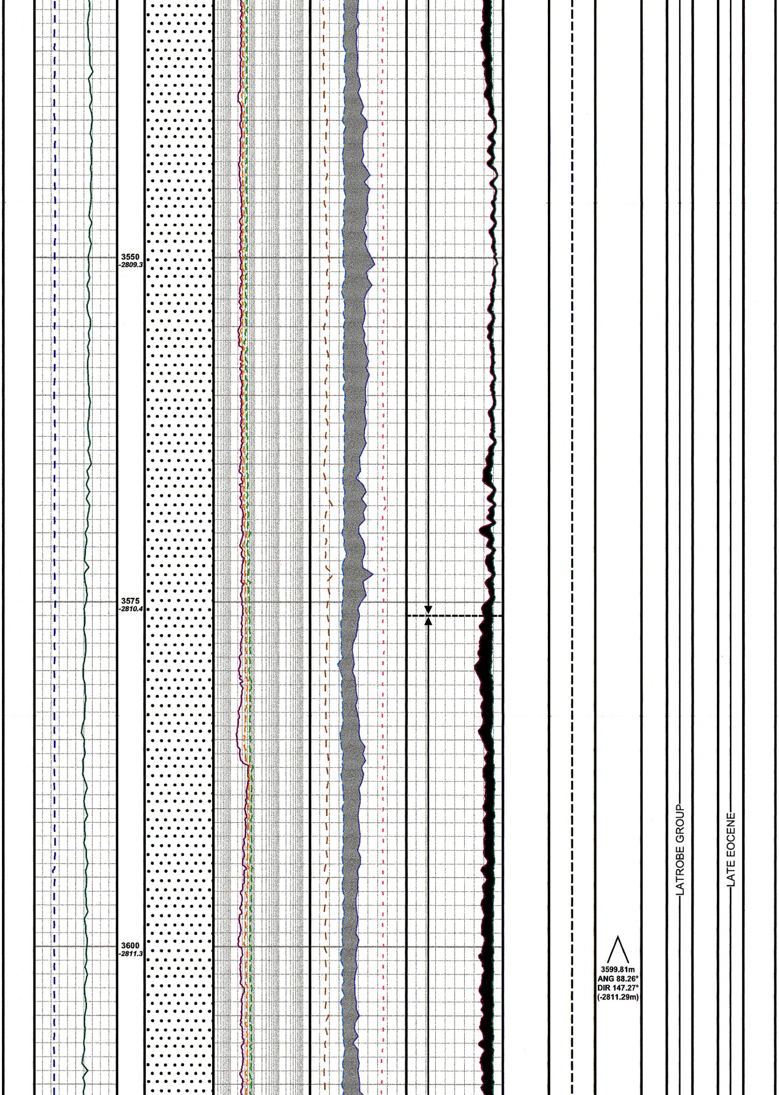

GR_M
0
150
CAL_P
8
18
DEPTH
mMDRT
mTVDSS
LITHOLOGY
BSAV
0.2
2000
BMAV
0.2
2000
RT
0.2
2000
DRHB
0.75
-0.25
PEB
0
20
TNPH
0.45
-0.15
ROBB
1.85
2.85
Oil
BVWG
0.5
1
BVWO
0.5
1
PHIE
0.5
0
TEST
COMPLETION
MUD SURVEY DATA
PLUGS
FORMATION
PALYNOLOGY
AGE

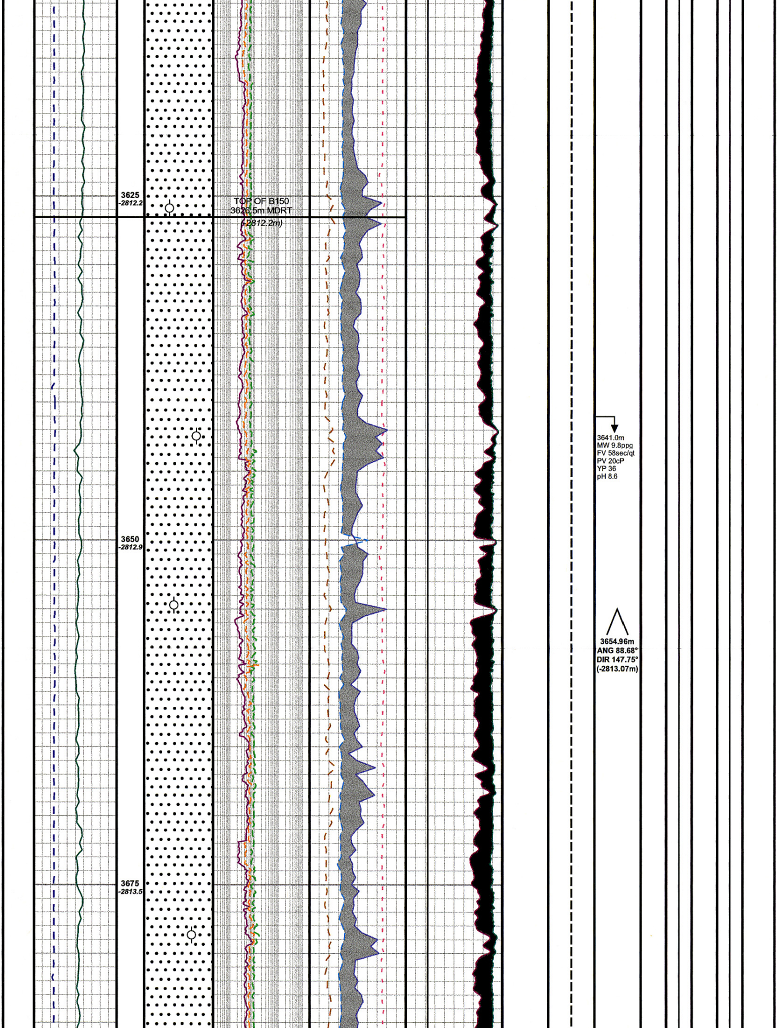


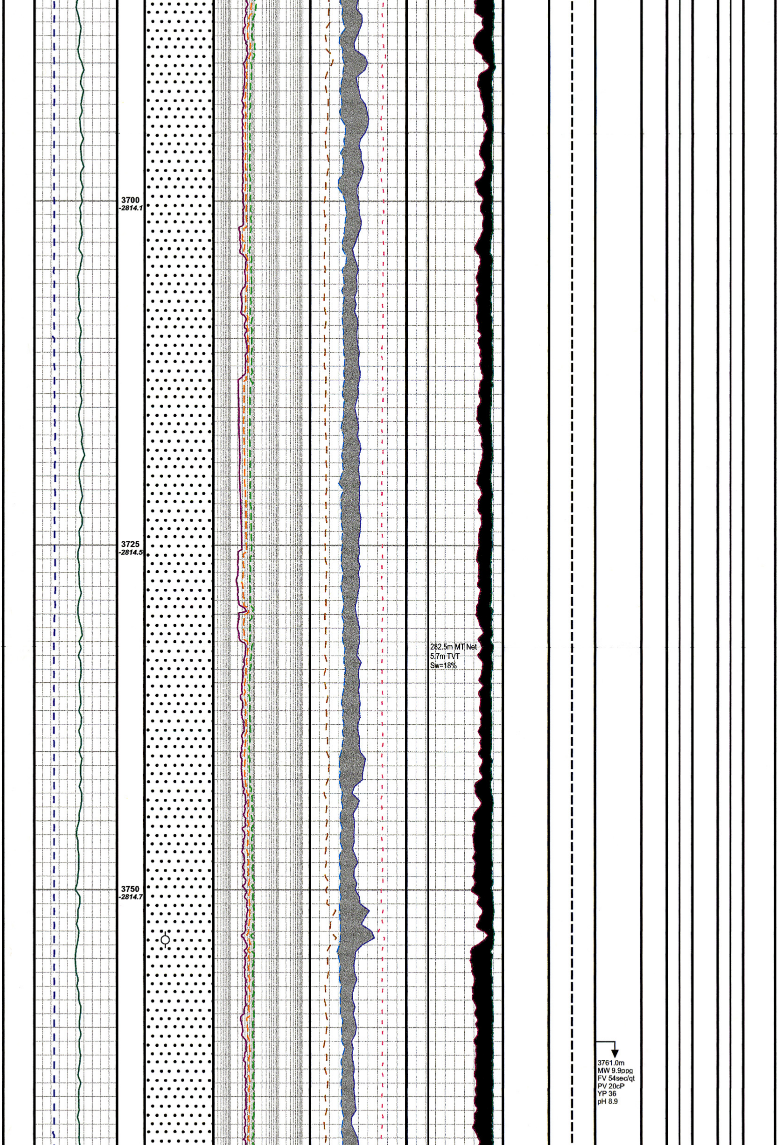






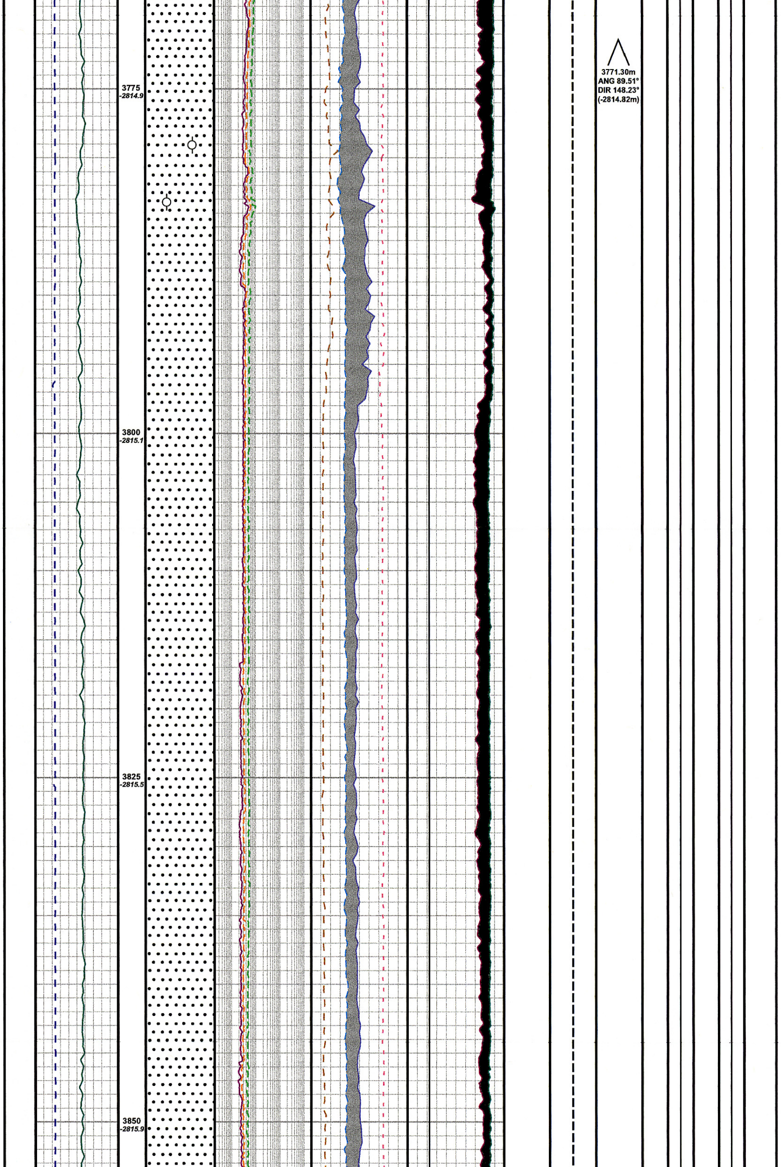


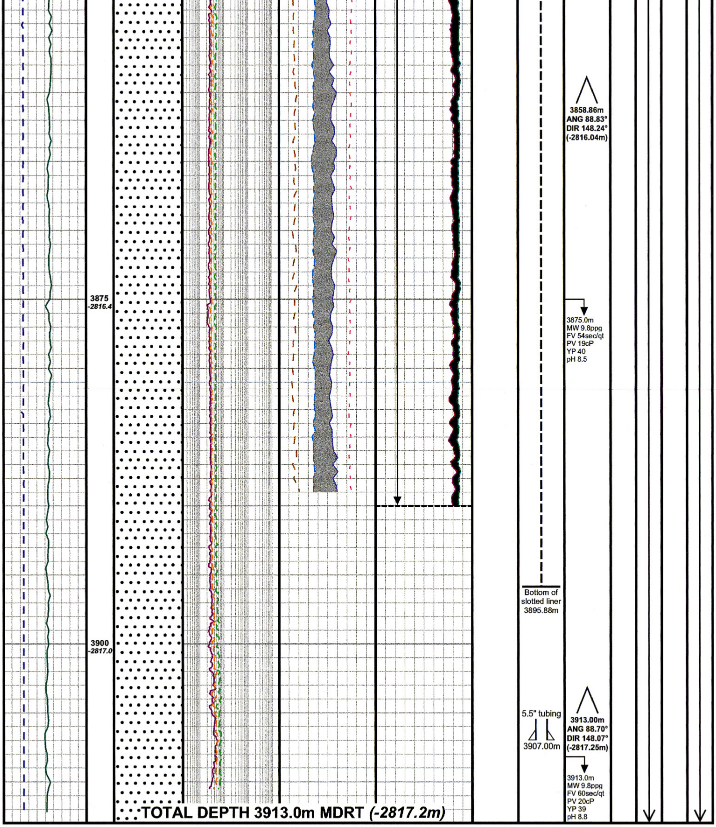




282.5m MT Net
5.7m TVT
Sw=18%

3761.0m
MW 9.9ppg
FV 54sec/qt
PV 20cP
YP 36
pH 8.9





CAL_P	Caliper
GR_M	Gamma Ray (merged from MWD and ADN runs)
RT	Resistivity deep
BMAV	Resistivity medium
BSAV	Resistivity shallow
ROBB	Bulk Density
DRHB	Density Correction
TNPH	Neutron Porosity
PEB	Photoelectric Cross Section
PHIE	Effective Porosity
BVWO	Bulk Volume Water-Oil
BVWG	Bulk Volume Water-Gas

BLACKBACK A-3
Initial Production (20/08/99)
8500 BOPD at 45% choke at 0% Watercut