aza
Anzon Australia
LIMITED

Manta-2A
Composite Well Log

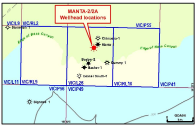
1:1000 (TVD)

ENCLOSURE 3

50% Anzon Australia Limited 50% Beach Petroleum Limited

Permit:	Vic/L26
Operator:	Anzon Australia Ltd

N.T.
QLD
W.A.
S.A.
N.S.W
Vic
Tas
Gippsland Basin


MANTA-2/2A
Wellhead locations
VIC/L9
VIC/RL2
Stonefish 1
VIC/P55
Edge of Bass Canyon
Chimaera-1
Manta-1
Edge of Bass Canyon
Basker-2
Basker-1
Gummy-1
Basker South-1
VIC/L11
VIC/RL9
VIC/L26
VIC/RL10
VIC/P41
VIC/P56
VIC/P49
Bignose 1
GDA94
0
km
4

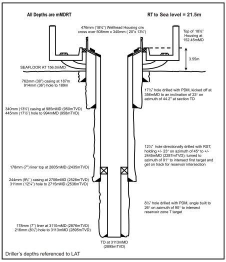
SURFACE LOCATION

Latitude:	-38" 16' 39.41' S
Longitude:	148" 42' 58.03' E
X:	650106.19mE
Y:	5761989.60mN
Datum/Ellipsoid:	GDA94/GRS80, MGA
UTM Zone:	55

BOTTOM HOLE LOCATION

Latitude:	-38" 16' 19.84' S
Longitude:	148" 43' 31.10' E
X:	650920.90mE
Y:	5762577.79mN

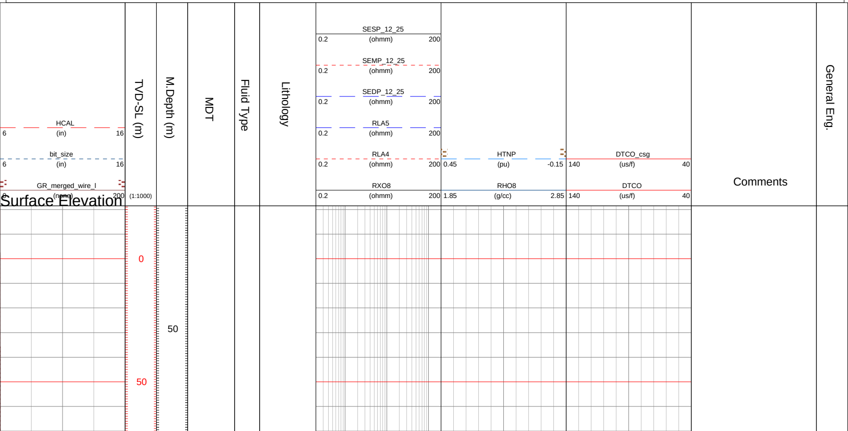
Geologists:	Mike Woodmansee/ Rob Blackmore	Well Status:	Development	TD MDRT:	3113m
Rig:	Ocean Patriot	Rig Recieved:	23rd January 2006	TD TVDSS:	2873.9m
Drilling:	Diamond Offshore General Company	Spud:	19:30hrs 23rd January 2006	Water Depth:	134.2m(133.3mLAT)
Wireline:	Schlumberger	TD:	03:00hrs 9th February 2006	Rotary Table:	21.5m
LWD:	Sperry	Date Completed:	12:00hrs 24th February 2006	Datum:	Wire:MSL; Drill:LAT
Mud Logging:	Geoservices	Rig Release:	08:00hrs 25th February 2006		
		Completion Status:	Suspended as a future oil and gas producer		

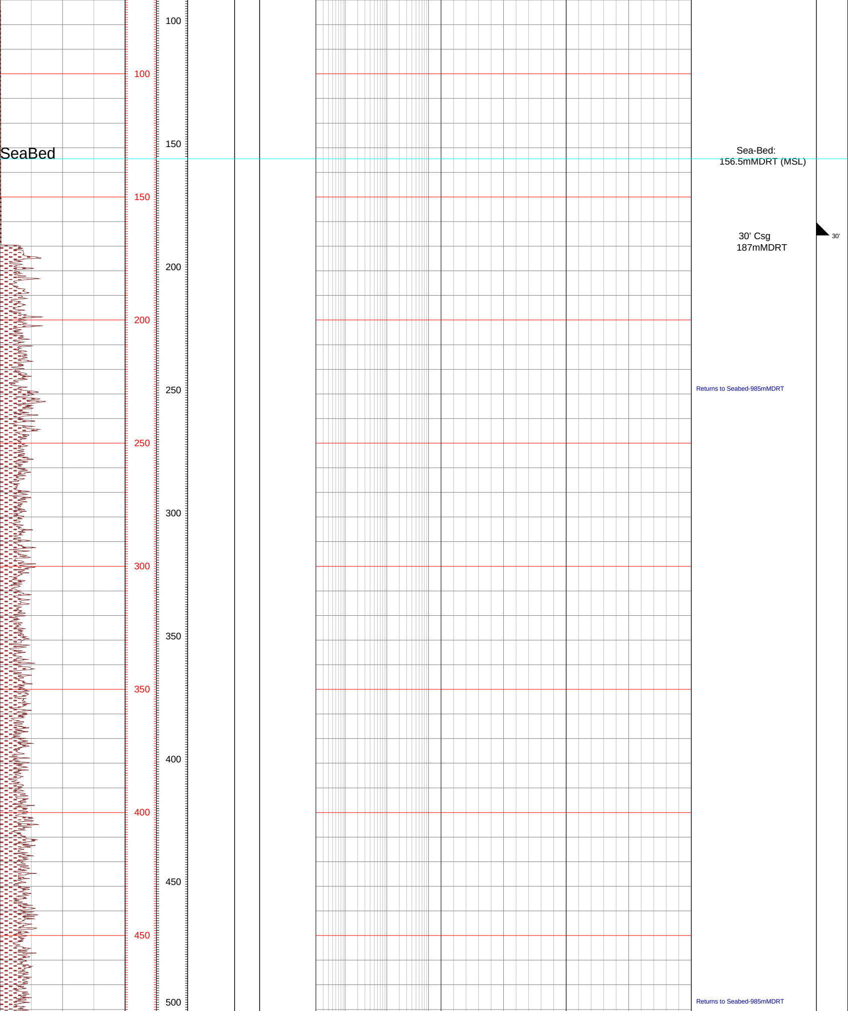

All Depths are mMDRT
RT to Sea level = 21.5m
476mm (18¾") Wellhead Housing c/w cross over 508mm x 340mm (20"x 13⅜")
Top of 18¾" Housing at 152.45mMD
3.55m
SEAFLOOR AT 156.0mMD
762mm (30") casing at 187m
914mm (36") hole to 189m
17½" hole drilled with PDM, kicked off at 356mMD to an inclination of 23° on azimuth of 44.2° at section TD
340mm (13⅜") casing at 985mMD (950mTVD)
445mm (17½") hole to 994mMD (958mTVD)
12¼" hole directionally drilled with RST, holding +/- 23° on azimuth of 45° to +/- 2445mMD (2287mTVD); turned to azimuth of 91° to intersect first target and get on track for reservoir intersection
178mm (7") liner top at 2605mMD (2435mTVD)
244mm (9⅝") casing at 2706mMD (2528mTVD)
311mm (12¼") hole to 2715mMD (2536mTVD)
8½" hole drilled with PDM, angle built to 26° on azimuth of 90° to intersect reservoir zone 7 target
178mm (7") liner at 3110mMD (2876mTVD)
216mm (8½") hole to 3113mMD (2895mTVD)
TD at 3113mMD (2895mTVD)

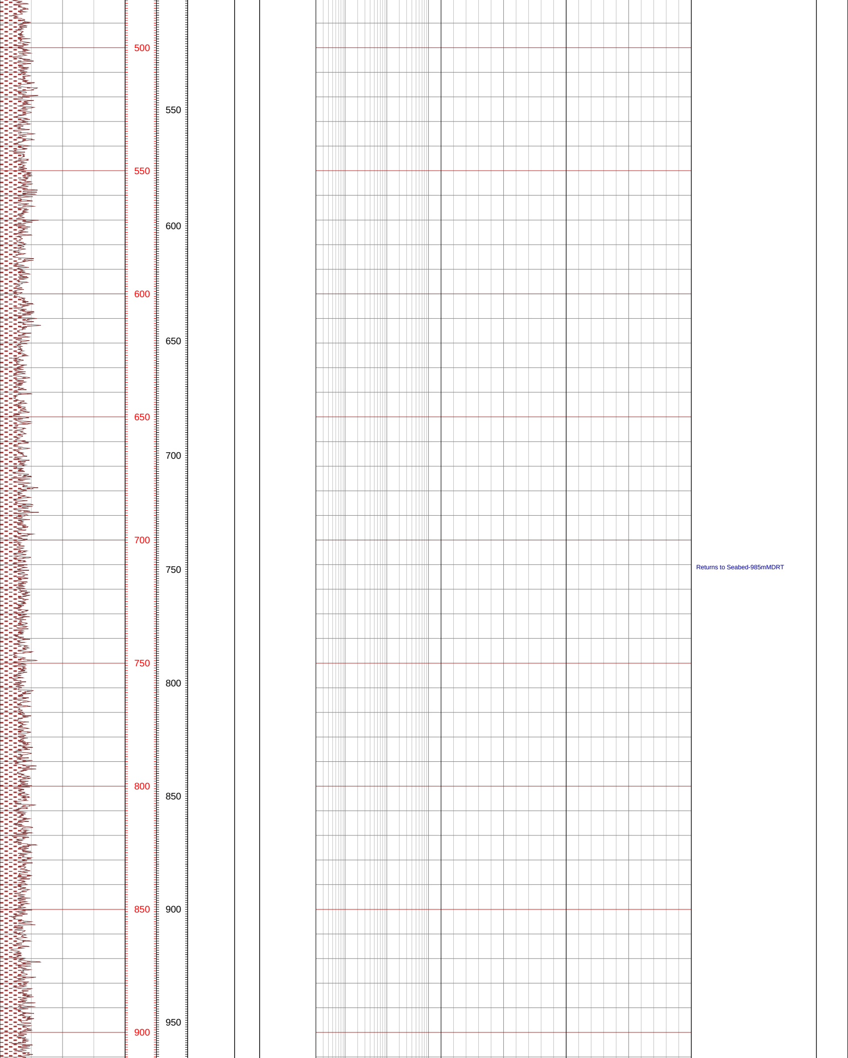
Driller's depths referenced to LAT

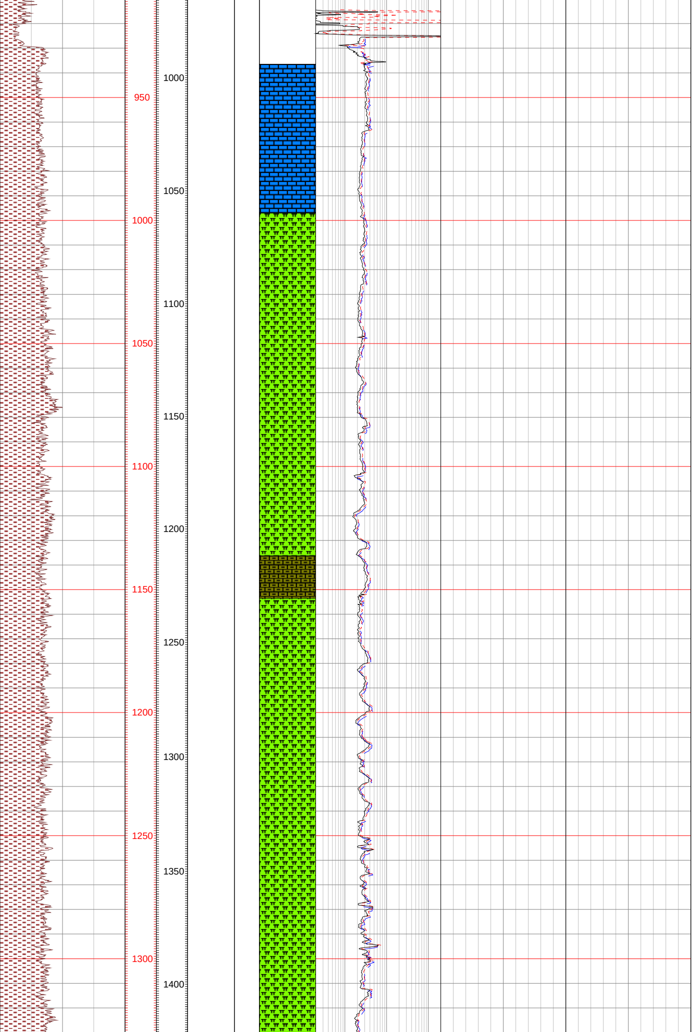
LEGEND

- ▦ Calcarenite
- ▦ Calcisiltite
- ▦ Calcilutite
- ▦ Argillaceous Limestone
- ▦ Marl
- ▦ Calcareous Claystone
- ▦ Claystone
- ▦ Siltstone
- ▦ Very Fine-Fine Gn Sandstone
- ▦ Medium Gn Sandstone
- ▦ Coarse Gn Sandstone
- ▦ Conglomerate
- ▦ Weathered Volcanics (Basalts)
- ■ Coal
- 🟥 Gas
- 🟩 Oil
- 🟦 Water









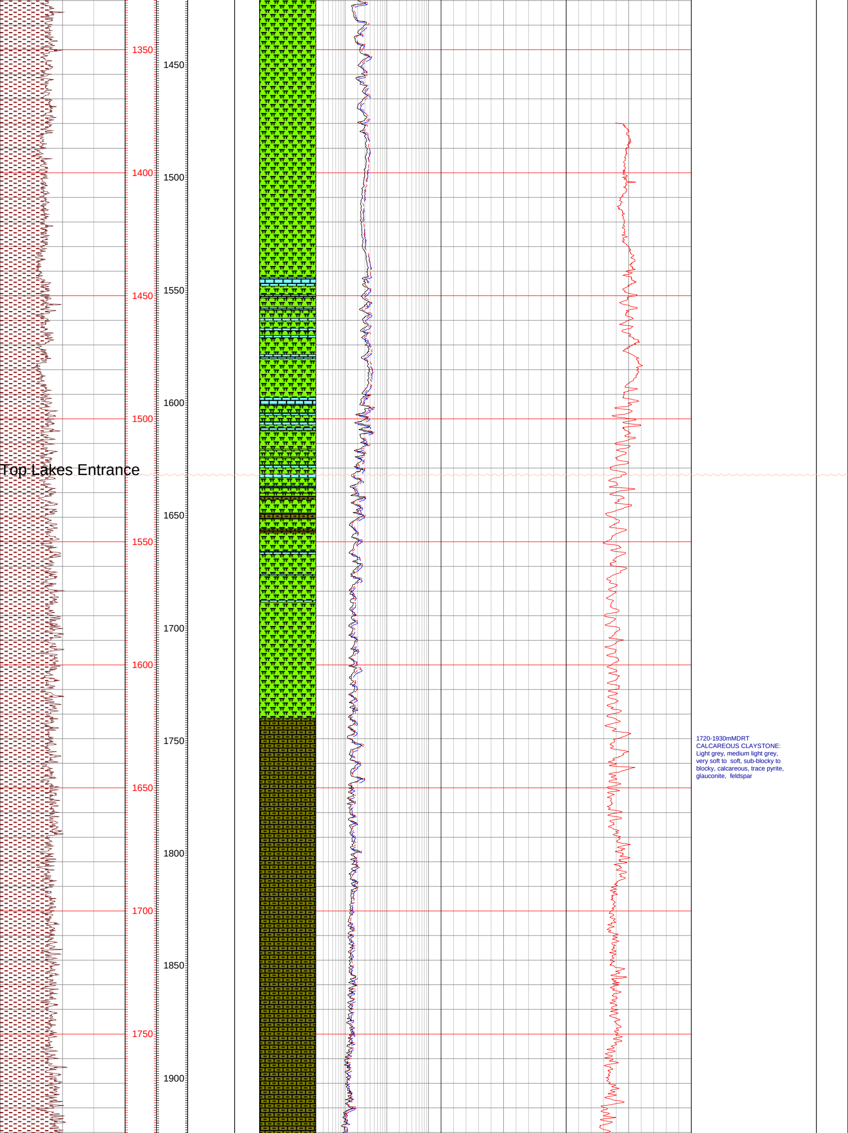
13 3/8' csg
985mMDRT

13 3/

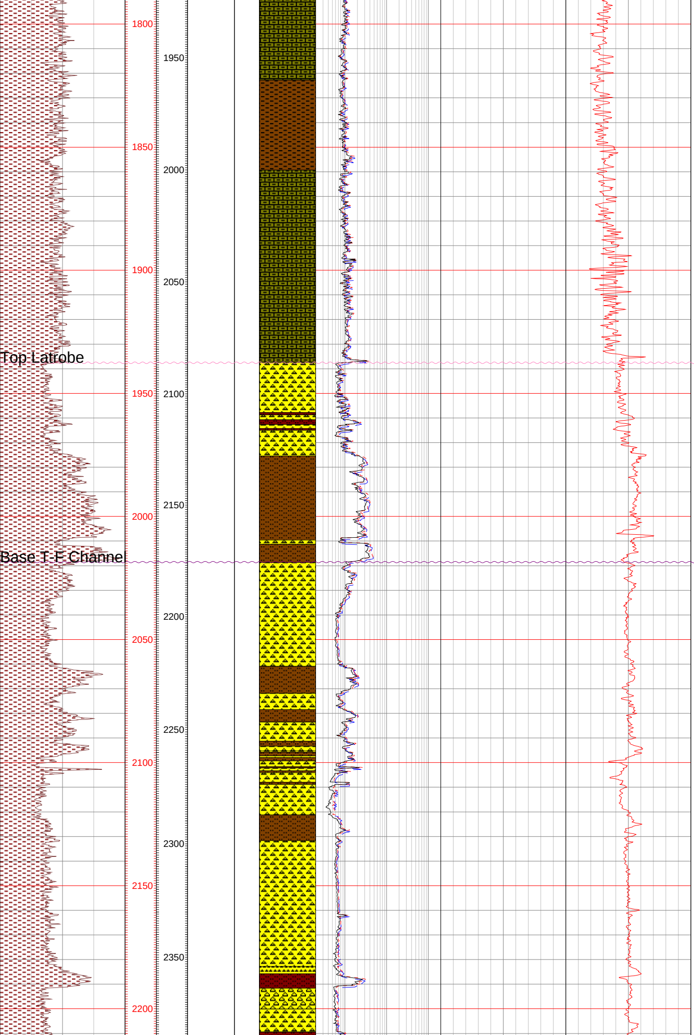
985-1060mMDRT: CALCILUTITE: Light olive grey, very soft, amorphous to sub-blocky

1060-1720mMDRT: MARL interbedded with CALCARENITE and OCCASIONAL CALCAREOUS CLAYSTONE: MARL Light grey, olive, very soft to amorphous, abundant siliceous clay, ocasional calcareous silt, trace forams, pyrite, glauconite, CALCARENITE: Light grey, Light brownish grey, dominantly medium to fine grained, firm to moderately hard, sub-blocky to subangular, moderately well sorted, abundant forams, trace glauconite, calcite cement

CALCAREOUS CLAYSTONE: Light olive grey, grey, very soft to soft, amorphous to dispersive



1720-1930mMDRT
CALCAREOUS CLAYSTONE:
Light grey, medium light grey, very soft to soft, sub-blocky to blocky, calcareous, trace pyrite, glauconite, feldspar



1930-1990mMDRT
CLAYSTONE: Light grey, medium light grey, slightly calcareous,trace caresous silt, pyrite, glauconite, fedspar

1990-2086mMDRT:
CALCAREOUS CLAYSTONE: Light gey, medium grey, slightly brownish grey, very softpblocky, calcareous, trace silt, pyrite, glauconite, feldspar.

2086-2175mMDRT: Interbedded SANDSTONE and CLAYSTONE: SANDSTONE Clear, translucent, white/green speckled aggregates,loose to friable,sub-blocky to rounded,dominantly medium grained,occasionally fine,coarse,moderately sorted, occassionally very glauconitic

Trace pyrite, glauconite. NO SHOWS

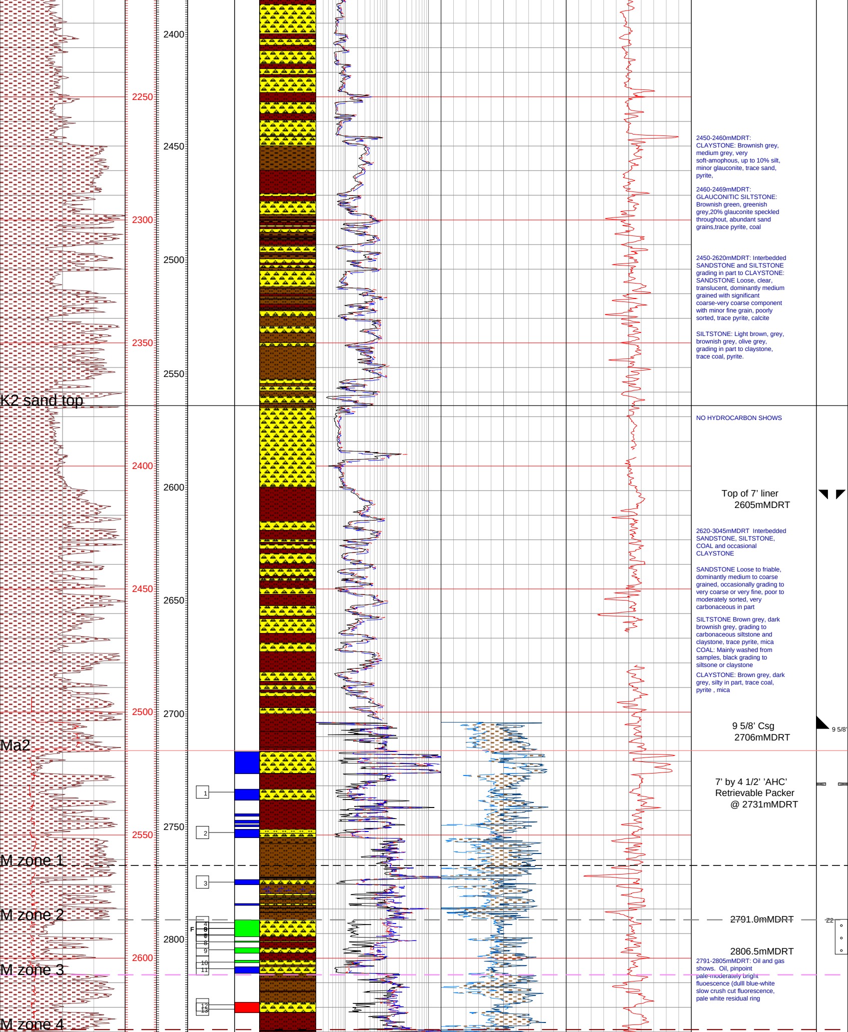
CLAYSTONE: Brownish grey, very soft-amophous, trace silt and sand, pyrite,

NO HYDROCARBON SHOWS IN SANDSTONES

2175-2450mMDRT:
SANDSTONE interbedded with CLAYSTONE (down to 2300mMDRT) and SILTSONE (from 2354mMDRT):

SANDSTONE: Loose, clear, occasionally orange brown staining, dominantly medium grained with fine and coarse component, moderate to poorly sorted, glauconitic down to 2350m, below 2350m ocasional sideritic layers, trace silca cement
CLAYSTONE: light grey, brownish grey, very soft to soft, amorphous to dispersive, occassionally very glauconitic (2170-2190m), occassionally carbonaceous (2190-2210m)

SILTSTONE: Medium grey, occasionally light grey, hard, siliceous, argillaceous, rare sideritic concretions (2380-95mMDRT), trace mica, glauconite, pyrite



2450-2460mMDRT: CLAYSTONE: Brownish grey, medium grey, very soft-amophous, up to 10% silt, minor glauconite, trace sand, pyrite,

2460-2469mMDRT: GLAUCONITIC SILTSTONE: Brownish green, greenish grey,20% glauconite speckled throughout, abundant sand grains,trace pyrite, coal

2450-2620mMDRT: Interbedded SANDSTONE and SILTSTONE grading in part to CLAYSTONE: SANDSTONE Loose, clear, translucent, dominantly medium grained with significant coarse-very coarse component with minor fine grain, poorly sorted, trace pyrite, calcite

SILTSTONE: Light brown, grey, brownish grey, olive grey, grading in part to claystone, trace coal, pyrite.

NO HYDROCARBON SHOWS

Top of 7' liner
2605mMDRT

2620-3045mMDRT Interbedded SANDSTONE, SILTSTONE, COAL and occasional CLAYSTONE

SANDSTONE Loose to friable, dominantly medium to coarse grained, occasionally grading to very coarse or very fine, poor to moderately sorted, very carbonaceous in part

SILTSTONE Brown grey, dark brownish grey, grading to carbonaceous siltstone and claystone, trace pyrite, mica

COAL: Mainly washed from samples, black grading to siltsone or claystone

CLAYSTONE: Brown grey, dark grey, silty in part, trace coal, pyrite , mica

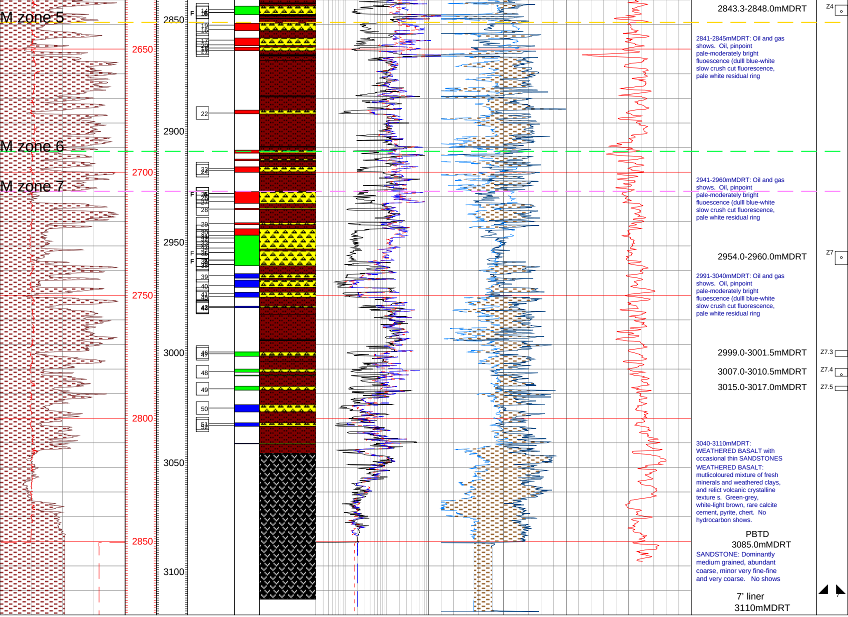
9 5/8' Csg
2706mMDRT

7' by 4 1/2' 'AHC'
Retrievable Packer
@ 2731mMDRT

2791.0mMDRT

2806.5mMDRT

2791-2805mMDRT: Oil and gas shows. Oil, pinpoint pale-moderately bright fluoescence (dulll blue-white slow crush cut fluorescence, pale white residual ring



2843.3-2848.0mMDRT

2841-2845mMDRT: Oil and gas shows. Oil, pinpoint pale-moderately bright fluoescence (dulll blue-white slow crush cut fluorescence, pale white residual ring

2941-2960mMDRT: Oil and gas shows. Oil, pinpoint pale-moderately bright fluoescence (dulll blue-white slow crush cut fluorescence, pale white residual ring

2954.0-2960.0mMDRT

2991-3040mMDRT: Oil and gas shows. Oil, pinpoint pale-moderately bright fluoescence (dulll blue-white slow crush cut fluorescence, pale white residual ring

2999.0-3001.5mMDRT

3007.0-3010.5mMDRT

3015.0-3017.0mMDRT

3040-3110mMDRT: WEATHERED BASALT with occasional thin SANDSTONES

WEATHERED BASALT: mutlicoloured mixture of fresh minerals and weathered clays, and relict volcanic crystalline texture s. Green-grey, white-light brown, rare calcite cement, pyrite, chert. No hydrocarbon shows.

PBTD
3085.0mMDRT

SANDSTONE: Dominantly medium grained, abundant coarse, minor very fine-fine and very coarse. No shows

7' liner
3110mMDRT