Schlumberger

Company: **ESSO Australia Pty Ltd**

Well: **SNA−A11A**
Field: **Snapper**
Rig: **ISDL 175** Location: **Bass Strait**

8.50 In. Section
EcoScope* Service

Rig: ISDL 175
Field: Snapper
Location: Bass Strait
Well: SNA−A11A
Company: ESSO Australia Pty Ltd

1:200 Measured Depth

Real Time Mode Log

Location

Position	x = E 589,789.423m y = N 5,772,182.746m
Longitude	E 148° 1’ 31.373”
Latitude	S 38° 11’ 37.762”

Elevation

K.B.	Top Drive
G.L.	−55.0 M
D.F.	41.7 M

Permanent datum: Mean Sea Level — Elev.: 0 M
Log measured from: Drill Floor 41.7 M above Perm. datum
Depth reference: Driller’s Depth

Information updated on 06−October−2008

Logging date			08−October−2008			
Run number			3			
Bottom log interval			4582.3 m			
Top log interval			4361.0 m			
Bit size/type			8.50in/PDC			
Type fluid in hole			Accolade SBM			
MUD	Density	Viscosity	10.6 LB/G	81 S		
	Fluid loss	PH	n.a	n.a		
	Source of sample		Flow line			
Rm @ measured temperature			n.a @ n.a			
Rmf @ measured temperature			n.a @ n.a			
Rmc @ measured temperature			n.a @ n.a			
Source Rmf		Rmc	n.a	n.a		
Rm @ E.B.H.T.		Rmf @ E.B.H.T.	n.a @n.a	n.a @n.a		
Estimated B.H.T.			81 °C			
Recorded by			Amarasena/O’Brien			
Witnessed by			Danny Van Der Aa			

Downhole tool numbers

EcoScope	799
arcVISION	FY68

Frame ID: #2002

Time (seconds)

Curve	ScanRate	Update
P40H_ECO_RT	2	19.33
P28H_ECO_RT	2	19.33
RHON_ECO_RT	4	25.78
BPHI_ECO_RT	4	25.78
UCAV_DH_ECO_RT	4	25.78
GRMA_ECO_RT	2	25.78
P28H_RT (arc)	6	38.67
P40H_RT (arc)	6	38.67

The ARC 6 and Ecoscope tools were cemented in the hole as they could not be fished out, thus only realtime logs have been presented.
The Ecoscope had a 7 7/8” Stabilizer. The Ecoscope sourceless density was pulsed realtime.
The ARC GR reads higher as the ARC was above the Ecoscope PNG, which activated the formation prior to the ARC tool logging the same section.

Do not cut this header. It contains important information

Bit Run Summary

Run number		3
Bit size	in	8.50
Bit start depth	m	4361.0
Bit end depth	m	4592.0
Top interval logged	m	4361.0
Bottom interval logged	m	4582.3
Begin log: time		10:23
Begin log: date		08−Oct−08
End log: time		15:12
End log: date		09−Oct−08
Mud data		
Depth	m	4500.0
Type		Accolade SBM
Mud weight	PPG	10.6

Mud weight	ppg	10.6									
Solids	%	18.80									
Chlorides	mg/L	47,420.0									
Rm	Ohm.m@°C	n.a									
Rmf	Ohm.m@°C	n.a									
Rmc	Ohm.m@°C	n.a									
Potassium	%	n.a									
Environmental data											
GR											
Mud weight	ppg	10.6									
Bit size	in	8.50									
Resistivity											
Neutron porosity											
Hole Size	in.	8.50									
Mud weight	ppg	10.6									
Temperature	°C	20									
Mud salinity	ppk	70.878									
Formation salinity		n.a									
Recording rate 1	SEC	6 (arcVISION)									
Recording rate 2	SEC	2 (EcoScope)									
Filtering GR		3 pts.									
Filtering density		3 pts.									
Filtering Neutron		3 pts.									
Company representative		R. Spence	A. Zernov	D. Daniels							
Anadrill personnel		M. Amarasena	B. Low	D. Perkins	P. Sellathurai	C. Soper	D. B. Khanh	D. O'Brien			

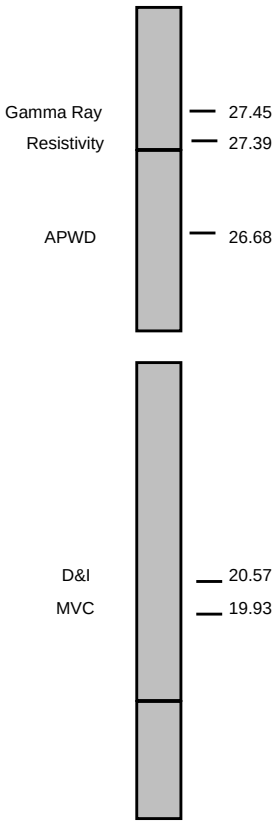
OTHER SERVICES FOR RUN3	OTHER SERVICES FOR RUN	OTHER SERVICES FOR RUN
Directional Drilling Direction Surveys Annular Pressure & Temperature Shock & Vibrations		

REMARKS: RUN NUMBER 3	REMARKS: RUN NUMBER	REMARKS: RUN NUMBER
Depth is referenced to Driller's depth Gamma ray is corrected for mud weight, tool size and bit size Resistivity is borehole compensated and environmentally corrected Neutron porosity is corrected for the effects of borehole size (i.e. bit size), temperature, mud salinity and mud hydrogen index (a factor of mud weight, mud temperature and pressure) Neutron porosity is calculated by using a limestone matrix density of 2.71 g/cm3 The SNA−A11A original hole was drilled to 4592m and as the BHA could not be fished out, the hole was plugged back and SNA−A11A−st was drilled. The EcoScope has a 7−7/8'' Stabilizer The EcoScope sourceless density was pulsed in real−time The arcVISION Gamma ray reads higher as the arcVISION was above the EcoScope PNG which activated the formation prior to the arcVISION tool logging the same section.		

EQUIPMENT DESCRIPTION

RUN 3	RUN	RUN

DOWNHOLE EQUIPMENT



6−3/4'' arcVISION* — 31.32
DHS: V9.3B13
S/N: FY68

- Gamma Ray — 27.45
- Resistivity — 27.39
- APWD — 26.68

6−3/4'' TeleScope* — 24.92
DHS: 9.2C02
S/N: VL09

- D&I — 20.57
- MVC — 19.93

6−3/4'' EcoScope* — 15.91
DHS: Lagerfeld V23
S/N: 799
PNG S/N: 2242−41221

- Neutron N — 13.30
- Neutron Den — 13.05
- Neutron F — 13.00
- Resistivity — 12.74
- Ultrasonic — 11.32
- APWD — 9.86
- Gamma Ray — 9.70

6−3/4'' PowerDrive Xceed* — 7.89
S/N: 241

8−1/2'' Reed Hycalog PDC Bit — 0.22
S/N: 218088

- 0.00

Maximum string diameter 8.50 in.

All lengths in Meters

IDEAL Version: ID14_0C_02

IDF

Format: ECOSCOPE Service RT Log **Vertical Scale: 1:200** **Graphics File Created: 17−Apr−2009 16:45**

PIP SUMMARY

Gamma PIP

Neutron PIP

Resistivity PIP

Utrasonic Caliper, Average Diameter, Real−Time, Computed Downhole (UCAV_DH_ECO_RT)
8 (IN) 20

Gamma Ray, Average, Real−Time (GRMA_ECO_RT)
0 (GAPI) 200

MWD Collar RPM (CRPM_RT) (RPM)
0 400

ARC Phase Shift Resistivity 28 inch at 2 MHz, Real−Time (P28H_ECO_RT)
0.2 (OHMM) 2000

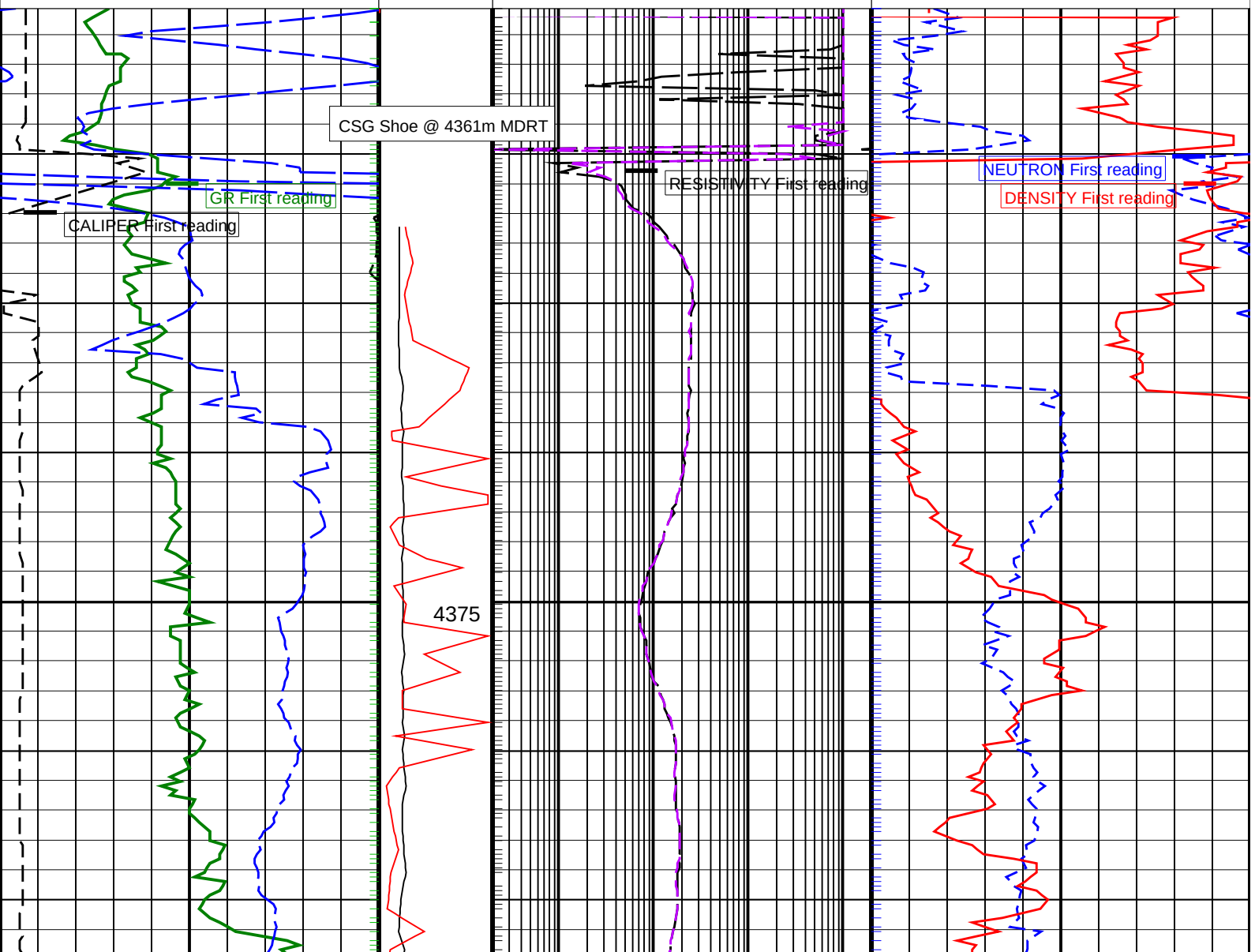
Bulk Density from Neutron, Average, Real−Time (RHON_ECO_RT)
1.85 (G/C3) 2.85

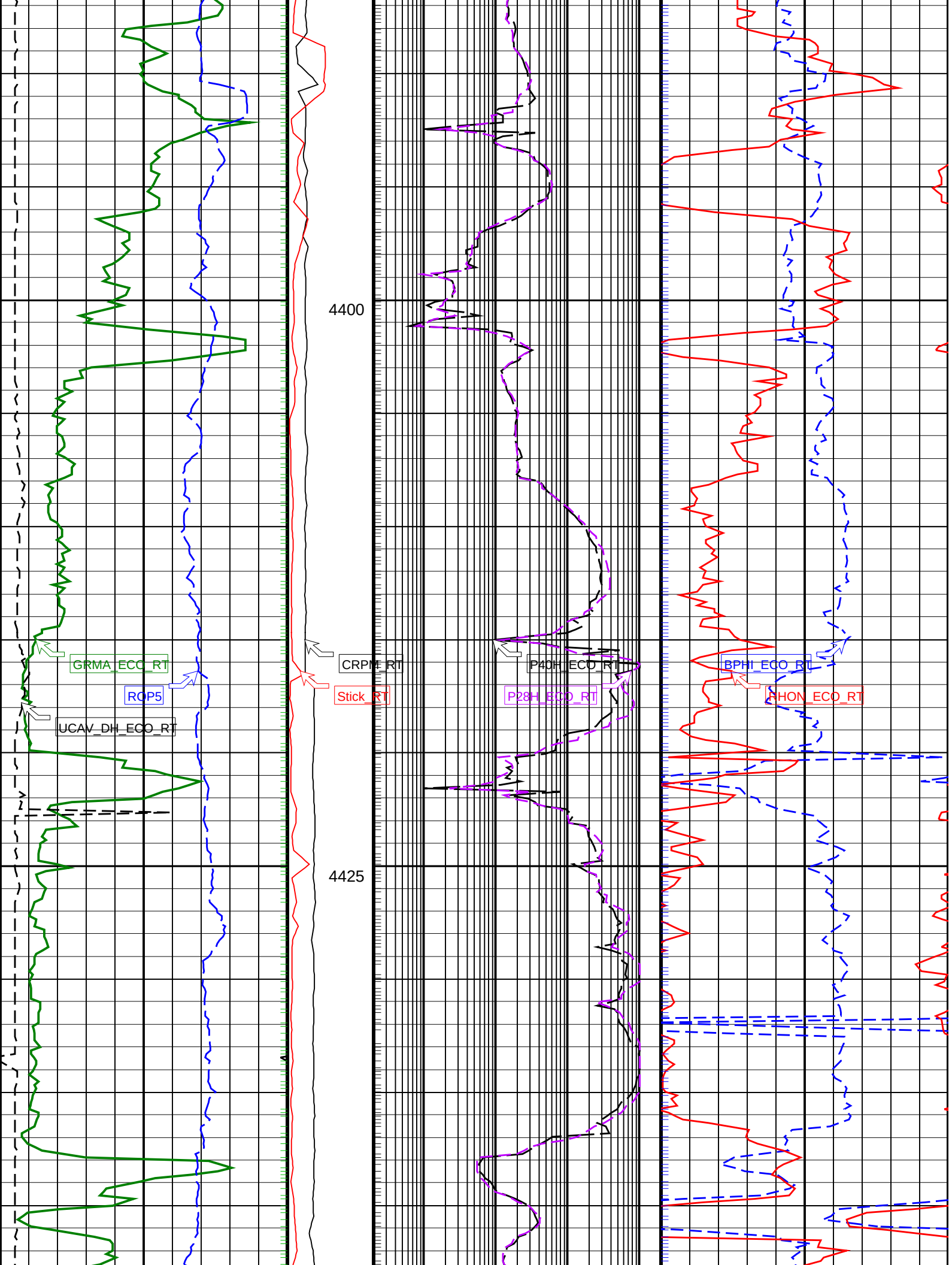
ROP*5 (ROP5)
100 (M/HR) 0

PKPK_RPM (Stick_RT) (RPM)
0 400

ARC Phase Shift Resistivity 40 inch at 2 MHz, Real−Time (P40H_ECO_RT)
0.2 (OHMM) 2000

Best Thermal Neutron Porosity, Average, Real−Time (BPHI_ECO_RT)
45 (PU) −15

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ROP5
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CRPM_RT
Stick_RT
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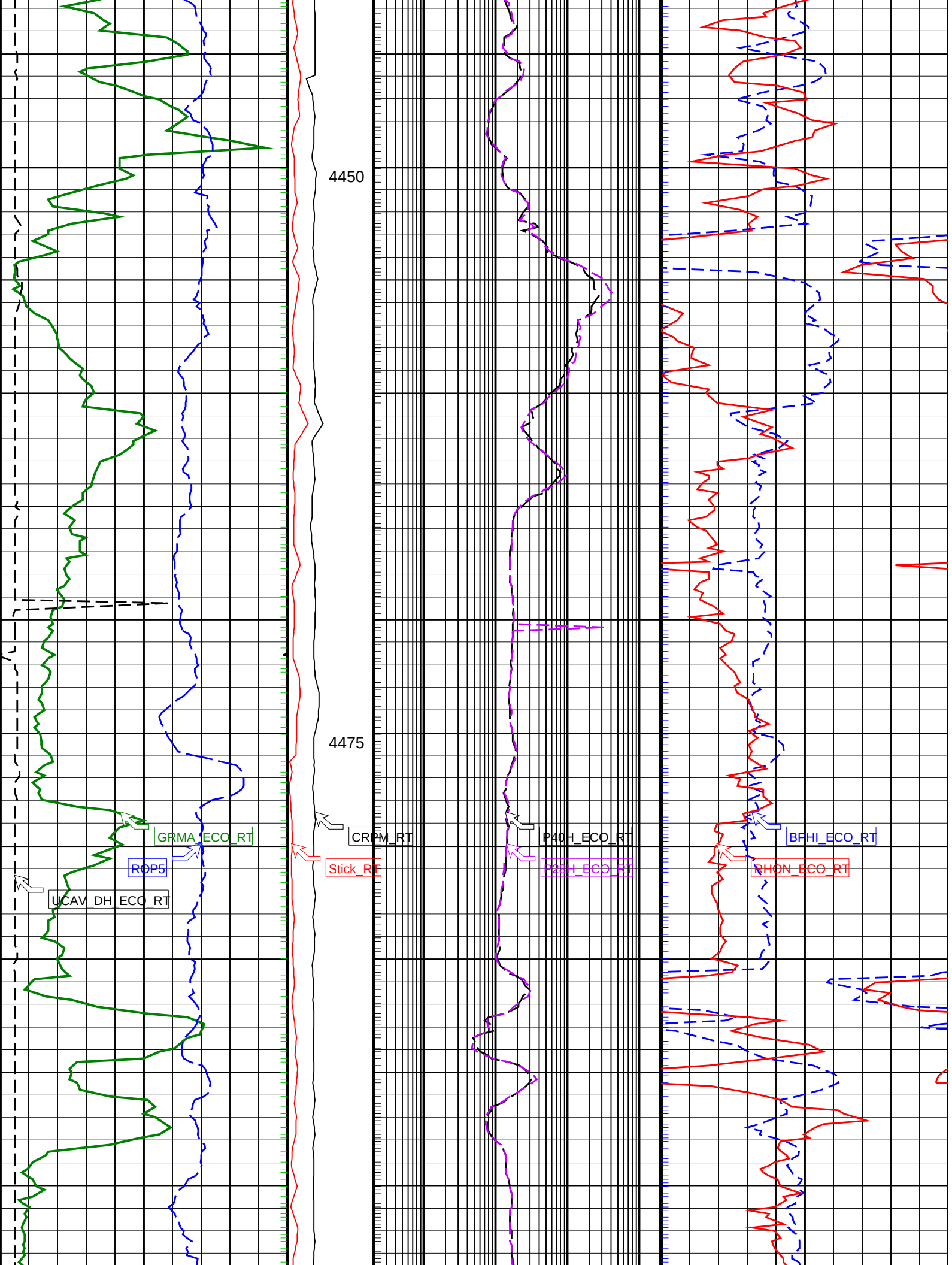
P28H_ECO_RT
BPHI_ECO_RT
RHON_ECO_RT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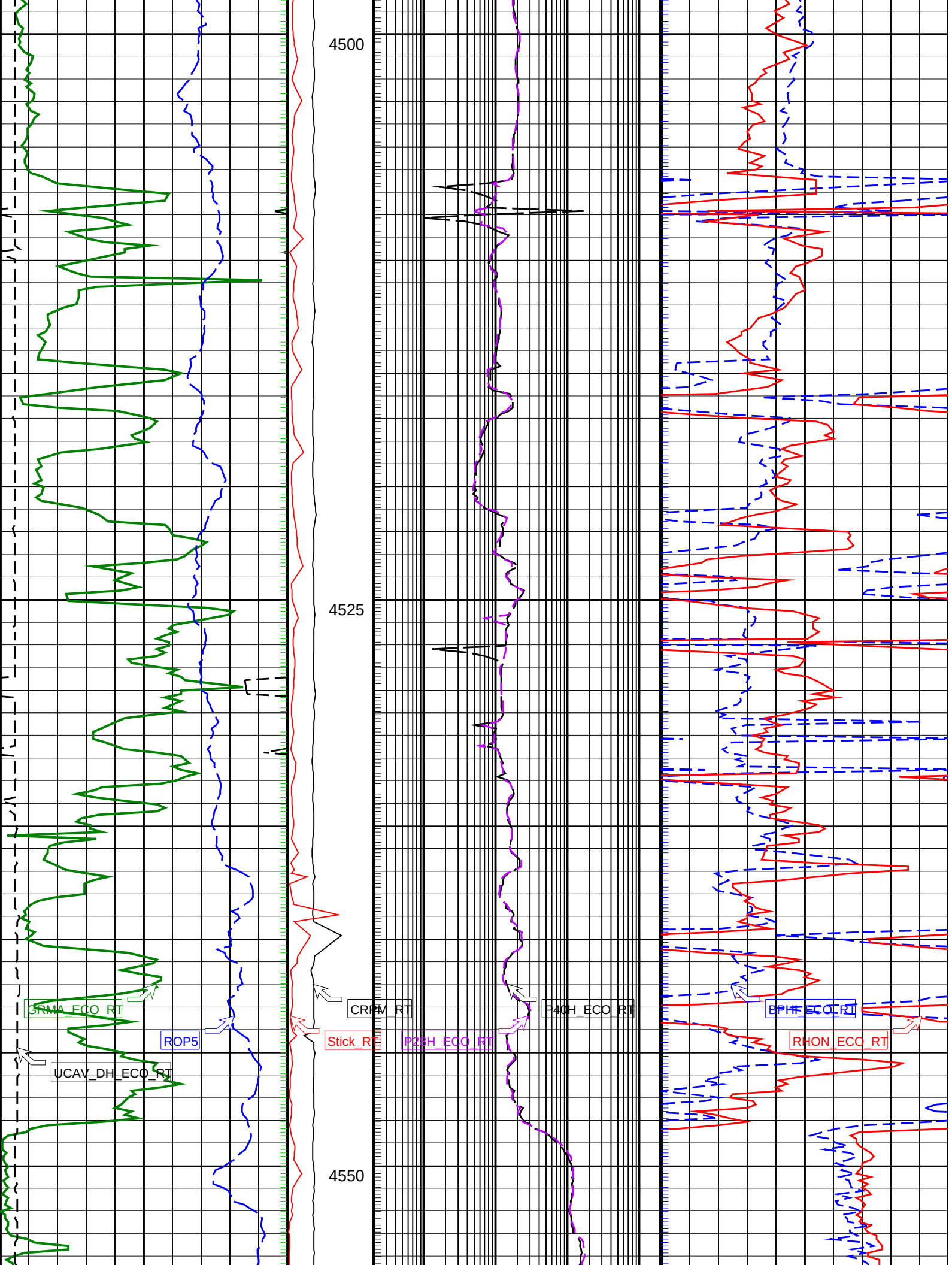
BPHI_ECO_RT
RHON_ECO_RT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ROP5
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Stick_RT
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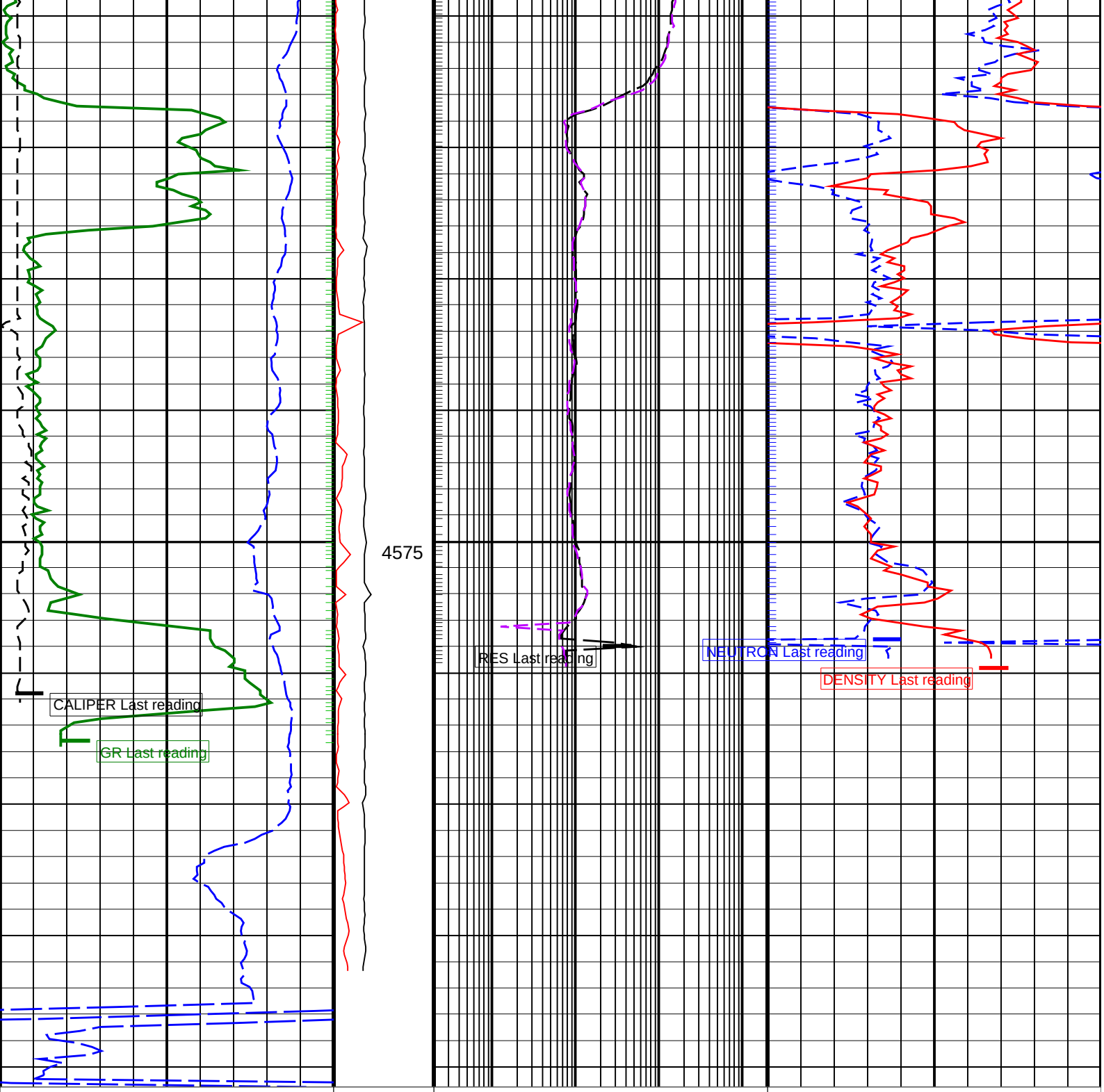
BPHI_ECO_RT
RHON_ECO_RT



ROP*5 (ROP5) 100 (M/HR) 0	PKPK_RPM (Stick_RT) (RPM) 0 400	ARC Phase Shift Resistivity 40 inch at 2 MHz, Real−Time (P40H_ECO_RT) 0.2 (OHMM) 2000	Best Thermal Neutron Porosity, Average, Real−Time (BPHI_ECO_RT) 45 (PU) −15
Gamma Ray, Average, Real−Time (GRMA_ECO_RT) 0 (GAPI) 200	MWD Collar RPM (CRPM_RT) (RPM) 0 400	ARC Phase Shift Resistivity 28 inch at 2 MHz, Real−Time (P28H_ECO_RT) 0.2 (OHMM) 2000	Bulk Density from Neutron, Average, Real−Time (RHON_ECO_RT) 1.85 (G/C3) 2.85
Utrasonic Caliper, Average Diameter, Real−Time, Computed Downhole (UCAV_DH_ECO_RT) 8 (IN) 20			

PIP SUMMARY

Gamma PIP

Neutron PIP

SCHLUMBERGER

Survey report 18-Apr-2009 11:40:26 Page 1 of 11

Client.....: Esso Australia
Field.....: Snapper

Well.....: CBA-A14b
API number.....: 08ASQ0028
Engineer.....: M. Amarasena/D. O'Brien

RIG LABEL:.....: ISDL 175
STATE:.....: Victoria

Spud date.....: 09-Sep-08
Last survey date.....: 08-Oct-09
Total accepted surveys...: 298
MD of first survey.....: 0.00 m
MD of last survey.....: 4593.00 m

----- Survey calculation methods-----
Method for positions.....: Minimum curvature
Method for DLS.....: Mason & Taylor

----- Depth reference -----
Permanent datum.....: Mean Sea Level
Depth reference.....: Driller's Depth
GL above permanent.....: -55.00 m
KB above permanent.....: Top Drive
DF above permanent.....: 41.70 m

----- Vertical section origin-----
Latitude (+N/S-).....: -1.85 m
Departure (+E/W-).....: 2.38 m

----- Platform reference point-----
Latitude (+N/S-).....:
Departure (+E/W-).....:

Azimuth from Vsect Origin to target: 225.66 degrees

----- Geomagnetic data -----
Magnetic model.....: BGGM version 2008
Magnetic date.....: 21-Oct-2008
Magnetic field strength..: 1198.04 HCNT
Magnetic dec (+E/W-).....: 13.00 degrees
Magnetic dip.....: -68.69 degrees

----- MWD survey Reference Criteria -----
Reference G.....: 1000.02 mGal
Reference H.....: 1198.04 HCNT
Reference Dip.....: -68.86 degrees
Tolerance of G.....: (+/-) 2.50 mGal
Tolerance of H.....: (+/-) 6.00 HCNT
Tolerance of Dip.....: (+/-) 0.45 degrees

----- Corrections -----
Magnetic dec (+E/W-).....: 13.22 degrees
Grid convergence (+E/W-).: -0.81 degrees
Total az corr (+E/W-).....: 14.03 degrees
(Total az corr = magnetic dec - grid conv)
Survey Correction Type ...:
I=Sag Corrected Inclination
M=Schlumberger Magnetic Correction
S=SORSl Magnetic Correction
F=Failed Axis Correction
R=Magnetic Resonance Tool Correction
D=Dmag Magnetic Correction

Seq # -	Measured depth (m)	Incl angle (deg)	Azimuth angle (deg)	Course length (m)	TVD depth (m)	Vertical section (m)	Displ +N/S- (m)	Displ +E/W- (m)	Total displ (m)	At Azim (deg)	DLS (deg/ 100f)	Srvy tool type	Tool Corr (deg)
1	0.00	0.00	0.00	0.00	0.00	0.00	-1.85	2.38	3.01	127.86	0.00	TIP	None
2	9.08	0.00	0.00	9.08	9.08	0.00	-1.85	2.38	3.01	127.86	0.00	MWD_M	None
3	64.08	0.64	256.16	55.00	64.08	0.26	-1.92	2.08	2.83	132.74	0.35	MWD_M	None
4	69.08	0.63	260.84	5.00	69.08	0.31	-1.93	2.03	2.80	133.66	0.32	MWD_M	None
5	74.08	0.65	250.94	5.00	74.08	0.36	-1.95	1.97	2.77	134.63	0.68	MWD_M	None
6	79.08	0.64	252.60	5.00	79.08	0.41	-1.97	1.92	2.75	135.67	0.13	MWD_M	None
7	84.08	0.66	258.82	5.00	84.08	0.46	-1.98	1.87	2.72	136.71	0.45	MWD_M	None
8	89.08	0.67	251.56	5.00	89.08	0.51	-1.99	1.81	2.69	137.79	0.52	MWD_M	None
9	94.08	0.60	249.24	5.00	94.08	0.56	-2.01	1.76	2.67	138.89	0.45	MWD_M	None
10	99.08	0.58	241.17	5.00	99.08	0.61	-2.03	1.71	2.66	139.95	0.52	MWD_M	None
11	104.08	0.62	228.30	5.00	104.08	0.66	-2.06	1.67	2.65	141.07	0.85	MWD_M	None
12	109.08	0.70	211.44	5.00	109.08	0.72	-2.11	1.63	2.67	142.27	1.27	MWD_M	None
13	114.08	0.89	192.04	5.00	114.08	0.78	-2.17	1.61	2.70	143.50	1.99	MWD_M	None
14	119.08	1.08	185.88	5.00	119.07	0.85	-2.26	1.59	2.76	144.76	1.32	MWD_M	None
15	124.08	1.46	178.13	5.00	124.07	0.93	-2.37	1.59	2.85	146.09	2.54	MWD_M	None
16	129.08	1.89	174.10	5.00	129.07	1.02	-2.51	1.60	2.98	147.48	2.72	MWD_M	None
17	134.08	2.10	170.15	5.00	134.07	1.12	-2.69	1.63	3.14	148.80	1.53	MWD_M	None
18	139.08	2.49	169.82	5.00	139.06	1.24	-2.88	1.66	3.33	150.04	2.38	MWD_M	None
19	144.08	2.77	169.43	5.00	144.06	1.36	-3.11	1.70	3.54	151.29	1.71	MWD_M	None
20	149.08	3.04	169.81	5.00	149.05	1.51	-3.36	1.75	3.79	152.49	1.65	MWD_M	None
21	154.08	3.26	170.56	5.00	154.05	1.66	-3.63	1.80	4.05	153.68	1.36	MWD_M	None
22	159.08	3.50	173.03	5.00	159.04	1.84	-3.92	1.84	4.33	154.89	1.71	MWD_M	None
23	164.08	3.80	175.77	5.00	164.03	2.03	-4.24	1.87	4.63	156.21	2.11	MWD_M	None
24	169.08	3.96	177.49	5.00	169.01	2.26	-4.58	1.89	4.95	157.58	1.21	MWD_M	None
25	174.08	4.35	183.02	5.00	174.00	2.51	-4.94	1.89	5.28	159.10	3.41	MWD_M	None
26	179.08	4.62	185.30	5.00	178.99	2.80	-5.33	1.86	5.64	160.78	1.97	MWD_M	None
27	184.08	4.97	188.80	5.00	183.97	3.13	-5.74	1.81	6.02	162.55	2.78	MWD_M	None
28	189.08	5.34	192.30	5.00	188.95	3.50	-6.18	1.72	6.42	164.43	2.96	MWD_M	None
29	194.08	5.61	194.26	5.00	193.93	3.90	-6.65	1.61	6.84	166.36	2.00	MWD_M	None
30	199.08	5.84	193.73	5.00	198.90	4.33	-7.13	1.49	7.29	168.18	1.44	MWD_M	None

31	204.08	6.01	195.66	5.00	203.87	4.77	-7.63	1.36	7.75	169.89	1.60	MWD_M	None
32	209.08	6.40	199.47	5.00	208.84	5.25	-8.14	1.20	8.23	171.64	3.46	MWD_M	None
33	214.08	6.67	202.29	5.00	213.81	5.76	-8.68	0.99	8.73	173.46	2.56	MWD_M	None
34	219.08	6.96	204.15	5.00	218.78	6.31	-9.22	0.76	9.25	175.29	2.22	MWD_M	None
35	224.08	7.40	207.94	5.00	223.74	6.90	-9.78	0.49	9.79	177.16	3.94	MWD_M	None
36	229.08	7.84	209.45	5.00	228.69	7.53	-10.36	0.17	10.37	179.08	2.95	MWD_M	None
37	234.08	8.37	211.17	5.00	233.64	8.21	-10.97	-0.19	10.97	180.99	3.55	MWD_M	None
38	239.08	8.88	212.23	5.00	238.59	8.94	-11.61	-0.58	11.62	182.88	3.26	MWD_M	None
39	244.08	9.43	212.07	5.00	243.52	9.71	-12.28	-1.01	12.32	184.68	3.36	MWD_M	None
40	249.08	10.25	212.50	5.00	248.45	10.55	-13.01	-1.46	13.09	186.42	5.02	MWD_M	None
41	254.08	10.81	212.64	5.00	253.37	11.44	-13.78	-1.95	13.91	188.08	3.42	MWD_M	None
42	259.08	11.55	212.86	5.00	258.27	12.38	-14.59	-2.48	14.80	189.64	4.52	MWD_M	None
43	264.08	12.12	212.88	5.00	263.16	13.38	-15.45	-3.04	15.75	191.12	3.47	MWD_M	None
44	269.08	12.69	212.49	5.00	268.05	14.43	-16.36	-3.62	16.75	192.47	3.51	MWD_M	None
45	274.08	13.36	212.57	5.00	272.92	15.52	-17.31	-4.22	17.81	193.71	4.09	MWD_M	None
46	279.08	14.13	212.66	5.00	277.78	16.68	-18.31	-4.86	18.94	194.87	4.70	MWD_M	None
47	284.08	14.63	212.45	5.00	282.62	17.89	-19.35	-5.53	20.13	195.95	3.06	MWD_M	None
48	289.08	15.27	212.31	5.00	287.45	19.15	-20.44	-6.22	21.37	196.93	3.91	MWD_M	None
49	294.08	16.00	211.97	5.00	292.26	20.46	-21.58	-6.94	22.67	197.82	4.48	MWD_M	None
50	299.08	16.98	211.90	5.00	297.06	21.84	-22.79	-7.69	24.05	198.64	5.98	MWD_M	None
51	304.08	17.56	211.94	5.00	301.83	23.28	-24.05	-8.47	25.50	199.41	3.54	MWD_M	None
52	309.08	18.41	211.96	5.00	306.59	24.78	-25.36	-9.29	27.01	200.12	5.18	MWD_M	None
53	314.08	19.09	211.99	5.00	311.32	26.34	-26.72	-10.14	28.58	200.78	4.15	MWD_M	None
54	319.08	19.84	211.85	5.00	316.04	27.96	-28.14	-11.02	30.22	201.39	4.58	MWD_M	None
55	324.08	20.38	211.77	5.00	320.73	29.63	-29.60	-11.93	31.91	201.95	3.30	MWD_M	None
56	329.08	21.36	211.76	5.00	325.41	31.36	-31.11	-12.87	33.67	202.47	5.97	MWD_M	None
57	334.08	22.08	211.69	5.00	330.05	33.15	-32.69	-13.84	35.49	202.95	4.39	MWD_M	None
58	339.08	22.85	211.55	5.00	334.67	35.00	-34.31	-14.84	37.38	203.39	4.71	MWD_M	None
59	344.08	23.62	211.57	5.00	339.27	36.92	-35.99	-15.87	39.34	203.80	4.69	MWD_M	None
60	349.08	24.89	211.82	5.00	343.82	38.91	-37.74	-16.95	41.37	204.19	7.77	MWD_M	None
61	354.08	25.22	211.39	5.00	348.35	40.97	-39.54	-18.06	43.47	204.55	2.30	MWD_M	None
62	359.08	26.19	211.56	5.00	352.86	43.07	-41.39	-19.19	45.63	204.88	5.93	MWD_M	None
63	364.08	26.52	211.53	5.00	357.34	45.22	-43.29	-20.36	47.83	205.19	2.01	MWD_M	None
64	369.08	26.97	211.34	5.00	361.80	47.40	-45.21	-21.53	50.07	205.47	2.79	MWD_M	None
65	374.08	27.48	211.43	5.00	366.25	49.62	-47.16	-22.72	52.35	205.72	3.12	MWD_M	None
66	379.08	28.09	211.41	5.00	370.67	51.88	-49.15	-23.94	54.67	205.97	3.72	MWD_M	None
67	384.08	28.40	211.27	5.00	375.08	54.17	-51.17	-25.17	57.02	206.19	1.93	MWD_M	None
68	389.08	28.95	211.53	5.00	379.46	56.50	-53.22	-26.42	59.41	206.40	3.44	MWD_M	None
69	394.08	29.37	211.43	5.00	383.83	58.86	-55.29	-27.69	61.84	206.60	2.58	MWD_M	None
70	399.08	29.94	211.44	5.00	388.18	61.26	-57.40	-28.98	64.30	206.79	3.47	MWD_M	None
71	404.08	30.23	211.47	5.00	392.50	63.69	-59.54	-30.29	66.80	206.96	1.77	MWD_M	None
72	409.08	30.54	211.55	5.00	396.82	66.14	-61.70	-31.61	69.32	207.13	1.91	MWD_M	None
73	414.08	30.93	211.56	5.00	401.11	68.62	-63.88	-32.95	71.87	207.28	2.38	MWD_M	None
74	419.08	31.27	211.61	5.00	405.39	71.12	-66.08	-34.30	74.45	207.43	2.08	MWD_M	None
75	424.08	31.61	211.56	5.00	409.66	73.65	-68.30	-35.66	77.05	207.57	2.08	MWD_M	None
76	429.08	31.97	211.57	5.00	413.91	76.21	-70.54	-37.04	79.68	207.71	2.19	MWD_M	None
77	434.08	32.35	211.61	5.00	418.14	78.79	-72.81	-38.44	82.33	207.83	2.32	MWD_M	None
78	439.08	32.76	211.64	5.00	422.36	81.40	-75.10	-39.85	85.02	207.95	2.50	MWD_M	None
79	444.08	33.16	211.66	5.00	426.55	84.04	-77.42	-41.28	87.73	208.07	2.44	MWD_M	None
80	449.08	33.49	211.84	5.00	430.73	86.70	-79.75	-42.72	90.47	208.18	2.10	MWD_M	None
81	454.08	33.93	211.75	5.00	434.89	89.40	-82.11	-44.18	93.24	208.28	2.70	MWD_M	None
82	459.08	34.32	211.71	5.00	439.03	92.12	-84.50	-45.66	96.04	208.39	2.38	MWD_M	None
83	464.08	34.71	211.67	5.00	443.15	94.87	-86.91	-47.15	98.87	208.48	2.38	MWD_M	None
84	469.08	35.15	211.63	5.00	447.25	97.65	-89.34	-48.65	101.73	208.57	2.69	MWD_M	None
85	474.08	35.60	211.64	5.00	451.33	100.45	-91.81	-50.17	104.62	208.65	2.74	MWD_M	None
86	479.08	36.06	211.71	5.00	455.38	103.29	-94.30	-51.70	107.54	208.74	2.82	MWD_M	None
87	484.08	36.50	211.72	5.00	459.41	106.17	-96.82	-53.26	110.50	208.82	2.68	MWD_M	None
88	489.08	36.99	211.72	5.00	463.42	109.07	-99.36	-54.83	113.49	208.89	2.99	MWD_M	None
89	494.08	37.46	211.80	5.00	467.40	112.01	-101.93	-56.42	116.51	208.97	2.88	MWD_M	None
90	499.08	37.90	211.80	5.00	471.35	114.97	-104.53	-58.03	119.56	209.04	2.68	MWD_M	None
91	504.08	38.35	211.81	5.00	475.29	117.97	-107.15	-59.66	122.64	209.11	2.74	MWD_M	None
92	509.08	38.99	211.91	5.00	479.19	121.00	-109.81	-61.31	125.76	209.18	3.92	MWD_M	None
93	514.08	39.45	211.97	5.00	483.07	124.08	-112.49	-62.98	128.92	209.24	2.81	MWD_M	None
94	519.08	39.98	211.97	5.00	486.91	127.18	-115.20	-64.67	132.11	209.31	3.23	MWD_M	None
95	524.08	40.39	212.08	5.00	490.73	130.31	-117.93	-66.39	135.34	209.38	2.54	MWD_M	None
96	529.08	40.95	212.15	5.00	494.52	133.48	-120.69	-68.12	138.59	209.44	3.43	MWD_M	None
97	534.08	41.48	212.20	5.00	498.28	136.69	-123.48	-69.87	141.88	209.50	3.24	MWD_M	None
98	539.08	41.93	212.23	5.00	502.02	139.92	-126.30	-71.65	145.20	209.57	2.75	MWD_M	None
99	544.08	42.36	212.26	5.00	505.73	143.19	-129.14	-73.44	148.56	209.63	2.62	MWD_M	None
100	549.08	42.84	212.31	5.00	509.41	146.48	-132.00	-75.24	151.94	209.68	2.93	MWD_M	None
101	554.08	43.36	212.39	5.00	513.06	149.80	-134.88	-77.07	155.35	209.74	3.19	MWD_M	None
102	559.08	43.91	212.47	5.00	516.67	153.16	-137.79	-78.92	158.80	209.80	3.37	MWD_M	None
103	564.08	44.39	212.54	5.00	520.26	156.55	-140.73	-80.79	162.27	209.86	2.94	MWD_M	None
104	569.08	44.88	212.59	5.00	523.82	159.97	-143.69	-82.68	165.78	209.92	2.99	MWD_M	None
105	574.08	45.35	212.68	5.00	527.35	163.43	-146.68	-84.59	169.32	209.97	2.89	MWD_M	None
106	579.08	45.99	212.81	5.00	530.84	166.91	-149.68	-86.53	172.89	210.03	3.94	MWD_M	None
107	584.08	46.34	212.87	5.00	534.31	170.43	-152.71	-88.49	176.50	210.09	2.15	MWD_M	None
108	589.08	46.91	212.92	5.00	537.74	173.97	-155.77	-90.46	180.13	210.15	3.48	MWD_M	None
109	594.08	47.52	212.90	5.00	541.14	177.55	-158.85	-92.45	183.79	210.20	3.72	MWD_M	None
110	599.08	48.11	212.89	5.00	544.49	181.17	-161.96	-94.46	187.49	210.25	3.60	MWD_M	None

111	604.08	48.55	212.90	5.00	547.82	184.81	-165.09	-96.49	191.22	210.31	2.68	MWD_M	None
112	609.08	48.99	212.94	5.00	551.11	188.48	-168.25	-98.54	194.98	210.36	2.69	MWD_M	None
113	614.08	49.61	213.03	5.00	554.37	192.17	-171.43	-100.60	198.77	210.41	3.80	MWD_M	None
114	619.08	49.96	213.14	5.00	557.60	195.90	-174.63	-102.68	202.58	210.46	2.19	MWD_M	None
115	624.08	50.61	213.13	5.00	560.80	199.65	-177.85	-104.79	206.42	210.51	3.96	MWD_M	None
116	629.08	51.13	213.28	5.00	563.95	203.44	-181.09	-106.91	210.30	210.56	3.25	MWD_M	None
117	634.08	51.57	213.33	5.00	567.07	207.26	-184.36	-109.06	214.20	210.61	2.69	MWD_M	None
118	639.08	52.25	213.45	5.00	570.16	211.10	-187.64	-111.22	218.13	210.66	4.19	MWD_M	None
119	644.08	52.76	213.55	5.00	573.20	214.98	-190.95	-113.41	222.09	210.71	3.15	MWD_M	None
120	649.08	53.34	213.68	5.00	576.21	218.89	-194.28	-115.62	226.08	210.76	3.59	MWD_M	None
121	654.08	53.70	213.68	5.00	579.18	222.82	-197.62	-117.85	230.10	210.81	2.19	MWD_M	None
122	659.08	54.45	213.76	5.00	582.11	226.78	-200.99	-120.10	234.14	210.86	4.59	MWD_M	None
123	664.08	54.97	213.82	5.00	585.00	230.78	-204.38	-122.37	238.22	210.91	3.18	MWD_M	None
124	669.08	55.76	213.80	5.00	587.84	234.80	-207.80	-124.66	242.33	210.96	4.82	MWD_M	None
125	674.08	56.38	213.73	5.00	590.64	238.86	-211.25	-126.96	246.47	211.01	3.80	MWD_M	None
126	679.08	56.97	213.77	5.00	593.38	242.95	-214.73	-129.29	250.64	211.05	3.60	MWD_M	None
127	684.08	57.55	213.86	5.00	596.09	247.07	-218.22	-131.63	254.84	211.10	3.57	MWD_M	None
128	689.08	58.12	213.83	5.00	598.75	251.21	-221.73	-133.98	259.07	211.14	3.48	MWD_M	None
129	694.08	58.80	213.81	5.00	601.36	255.38	-225.27	-136.36	263.33	211.19	4.15	MWD_M	None
130	699.08	59.51	213.82	5.00	603.93	259.58	-228.84	-138.74	267.62	211.23	4.33	MWD_M	None
131	704.08	60.06	213.82	5.00	606.44	263.81	-232.43	-141.15	271.93	211.27	3.35	MWD_M	None
132	709.08	60.74	213.81	5.00	608.91	268.06	-236.04	-143.57	276.28	211.31	4.15	MWD_M	None
133	714.08	61.41	213.80	5.00	611.33	272.35	-239.68	-146.00	280.65	211.35	4.08	MWD_M	None
134	719.08	62.00	213.77	5.00	613.70	276.66	-243.34	-148.45	285.05	211.39	3.60	MWD_M	None
135	724.08	62.60	213.80	5.00	616.03	280.99	-247.02	-150.91	289.47	211.42	3.66	MWD_M	None
136	729.08	63.20	213.78	5.00	618.30	285.34	-250.72	-153.39	293.92	211.46	3.66	MWD_M	None
137	734.08	63.89	213.68	5.00	620.53	289.72	-254.44	-155.87	298.39	211.49	4.24	MWD_M	None
138	739.08	64.17	213.74	5.00	622.72	294.12	-258.18	-158.37	302.88	211.53	1.74	MWD_M	None
139	744.08	64.56	213.70	5.00	624.88	298.53	-261.93	-160.87	307.39	211.56	2.39	MWD_M	None
140	749.08	64.79	213.71	5.00	627.02	302.95	-265.69	-163.38	311.90	211.59	1.40	MWD_M	None
141	754.08	64.83	213.72	5.00	629.15	307.38	-269.45	-165.89	316.42	211.62	0.25	MWD_M	None
142	759.08	64.85	213.69	5.00	631.28	311.81	-273.22	-168.40	320.95	211.65	0.21	MWD_M	None
143	764.08	64.76	213.66	5.00	633.41	316.23	-276.98	-170.91	325.47	211.68	0.57	MWD_M	None
144	769.08	64.66	213.65	5.00	635.54	320.65	-280.75	-173.42	329.99	211.70	0.61	MWD_M	None
145	774.08	64.49	213.66	5.00	637.69	325.07	-284.50	-175.92	334.50	211.73	1.04	MWD_M	None
146	779.08	64.35	213.70	5.00	639.85	329.48	-288.26	-178.42	339.01	211.76	0.88	MWD_M	None
147	784.08	64.25	213.74	5.00	642.01	333.89	-292.00	-180.92	343.51	211.78	0.65	MWD_M	None
148	789.08	64.16	213.77	5.00	644.19	338.30	-295.75	-183.42	348.01	211.81	0.57	MWD_M	None
149	794.08	64.18	213.81	5.00	646.37	342.70	-299.49	-185.93	352.51	211.83	0.25	MWD_M	None
150	**799.08**	**64.02**	**213.83**	**5.00**	**648.55**	**347.10**	**-303.22**	**-188.43**	**357.00**	**211.86**	**0.98**	**MWD_M**	**None**
151	804.08	63.78	213.83	5.00	650.75	351.50	-306.95	-190.93	361.49	211.88	1.46	MWD_M	None
152	809.08	63.63	213.83	5.00	652.97	355.88	-310.68	-193.42	365.97	211.91	0.91	MWD_M	None
153	814.08	63.55	213.85	5.00	655.19	360.27	-314.40	-195.92	370.44	211.93	0.50	MWD_M	None
154	819.08	63.63	213.90	5.00	657.42	364.65	-318.12	-198.41	374.92	211.95	0.56	MWD_M	None
155	824.08	63.72	213.95	5.00	659.63	369.04	-321.83	-200.91	379.40	211.98	0.61	MWD_M	None
156	829.08	63.97	213.97	5.00	661.84	373.43	-325.56	-203.42	383.88	212.00	1.53	MWD_M	None
157	834.08	64.27	213.98	5.00	664.02	377.84	-329.29	-205.94	388.38	212.02	1.83	MWD_M	None
158	839.08	64.53	213.97	5.00	666.18	382.25	-333.03	-208.46	392.89	212.04	1.59	MWD_M	None
159	844.08	65.01	214.01	5.00	668.31	386.68	-336.78	-210.98	397.41	212.07	2.93	MWD_M	None
160	849.08	65.47	214.01	5.00	670.41	391.13	-340.54	-213.52	401.95	212.09	2.80	MWD_M	None
161	854.08	65.90	214.04	5.00	672.46	395.59	-344.32	-216.07	406.50	212.11	2.63	MWD_M	None
162	859.08	66.47	214.04	5.00	674.48	400.07	-348.11	-218.63	411.07	212.13	3.47	MWD_M	None
163	864.08	66.94	214.05	5.00	676.46	404.57	-351.91	-221.21	415.66	212.15	2.87	MWD_M	None
164	869.08	67.48	214.10	5.00	678.40	409.09	-355.73	-223.79	420.27	212.17	3.30	MWD_M	None
165	874.08	67.94	214.10	5.00	680.29	413.62	-359.56	-226.38	424.89	212.19	2.80	MWD_M	None
166	879.08	68.48	214.12	5.00	682.15	418.17	-363.41	-228.99	429.53	212.22	3.29	MWD_M	None
167	884.08	68.97	214.15	5.00	683.96	422.74	-367.26	-231.60	434.19	212.24	2.99	MWD_M	None
168	889.08	69.43	214.15	5.00	685.74	427.32	-371.13	-234.22	438.86	212.26	2.80	MWD_M	None
169	894.08	69.84	214.17	5.00	687.48	431.91	-375.01	-236.86	443.54	212.28	2.50	MWD_M	None
170	899.08	70.11	214.19	5.00	689.19	436.51	-378.90	-239.49	448.24	212.30	1.65	MWD_M	None
171	904.08	70.37	214.22	5.00	690.88	441.12	-382.79	-242.14	452.94	212.32	1.59	MWD_M	None
172	909.08	70.40	214.29	5.00	692.56	445.74	-386.68	-244.79	457.65	212.34	0.44	MWD_M	None
173	914.08	70.50	214.38	5.00	694.23	450.36	-390.57	-247.45	462.36	212.36	0.80	MWD_M	None
174	929.77	69.92	213.75	15.69	699.55	464.82	-402.80	-255.72	477.12	212.41	1.61	MWD_M	None
175	958.90	70.38	217.36	29.13	709.44	491.79	-425.09	-271.65	504.47	212.58	3.59	MWD_M	None
176	1031.43	71.86	227.29	72.53	732.96	560.20	-475.73	-317.81	572.12	213.74	4.00	MWD_M	None
177	1061.56	72.45	230.93	30.13	742.20	588.82	-494.50	-339.48	599.81	214.47	3.56	MWD_M	None
178	1090.97	72.64	236.97	29.41	751.03	616.57	-511.00	-362.15	626.32	215.33	5.97	MWD_M	None
179	1119.77	72.71	242.74	28.80	759.61	643.21	-524.80	-385.92	651.42	216.33	5.83	MWD_M	None
180	1149.27	72.81	246.25	29.50	768.36	669.87	-536.93	-411.34	676.38	217.46	3.47	MWD_M	None
181	1178.56	73.01	249.35	29.29	776.96	695.80	-547.50	-437.26	700.68	218.61	3.09	MWD_M	None
182	1207.68	73.11	252.09	29.12	785.45	721.03	-556.70	-463.55	724.43	219.78	2.75	MWD_M	None
183	1236.43	73.19	255.64	28.75	793.79	745.27	-564.35	-489.98	747.37	220.97	3.60	MWD_M	None
184	1265.97	73.19	259.34	29.54	802.33	769.29	-570.47	-517.58	770.28	222.22	3.65	MWD_M	None
185	1295.26	75.10	260.12	29.29	810.33	792.63	-575.49	-545.30	792.81	223.46	2.14	MWD_M	None
186	1324.52	77.31	260.06	29.26	817.31	816.07	-580.38	-573.29	815.79	224.65	2.30	MWD_M	None
187	1353.14	80.46	259.60	28.62	822.83	839.30	-585.34	-600.93	838.89	225.75	3.39	MWD_M	None
188	1382.46	83.82	258.62	29.32	826.84	863.53	-590.83	-629.45	863.30	226.81	3.64	MWD_M	None
189	1411.86	84.45	254.99	29.40	829.84	888.56	-597.50	-657.92	888.74	227.76	3.80	MWD_M	None
190	1438.99	84.34	253.00	27.13	832.49	912.32	-604.95	-683.87	913.04	228.50	2.23	MWD_M	None

191	1469.73	84.22	251.43	30.74	835.56	939.68	-614.29	-712.99	941.12	229.25	1.55	MWD_M	None
192	1495.08	83.10	249.56	25.35	838.36	962.55	-622.70	-736.74	964.65	229.80	2.61	MWD_M	None
193	1524.61	83.35	248.29	29.53	841.84	989.48	-633.25	-764.10	992.40	230.35	1.33	MWD_M	None
194	1557.55	81.71	246.72	32.94	846.12	1019.80	-645.74	-794.28	1023.65	230.89	2.09	MWD_M	None
195	1586.20	81.97	245.06	28.65	850.19	1046.41	-657.32	-820.16	1051.07	231.29	1.77	MWD_M	None
196	1615.69	82.06	242.94	29.49	854.29	1074.13	-670.13	-846.41	1079.57	231.63	2.17	MWD_M	None
197	1645.11	82.29	241.37	29.42	858.29	1102.07	-683.74	-872.18	1108.24	231.91	1.63	MWD_M	None
198	1674.05	82.03	240.31	28.94	862.24	1129.74	-697.71	-897.21	1136.57	232.13	1.14	MWD_M	None
199	1703.12	82.32	238.35	29.07	866.20	1157.72	-712.40	-921.98	1165.15	232.31	2.06	MWD_M	None
200	1732.30	82.20	236.84	29.18	870.13	1186.01	-727.89	-946.39	1193.94	232.44	1.57	MWD_M	None
201	1761.47	82.34	235.21	29.17	874.05	1214.44	-744.05	-970.36	1222.79	232.52	1.69	MWD_M	None
202	1790.91	82.17	232.75	29.44	878.02	1243.30	-761.20	-993.96	1251.95	232.55	2.53	MWD_M	None
203	1819.75	82.34	230.57	28.84	881.91	1271.72	-778.92	-1016.37	1280.52	232.53	2.29	MWD_M	None
204	1849.17	82.20	228.35	29.42	885.86	1300.81	-797.87	-1038.52	1309.63	232.47	2.28	MWD_M	None
205	1878.57	82.21	225.34	29.40	889.85	1329.93	-817.79	-1059.77	1338.62	232.34	3.09	MWD_M	None
206	1907.72	83.13	222.85	29.15	893.57	1358.83	-838.56	-1079.89	1367.23	232.17	2.76	MWD_M	None
207	1936.37	83.16	219.37	28.65	896.99	1387.18	-859.98	-1098.59	1395.16	231.95	3.68	MWD_M	None
208	1965.65	83.33	216.22	29.28	900.44	1415.98	-882.96	-1116.40	1423.36	231.66	3.26	MWD_M	None
209	1994.86	83.27	219.15	29.21	903.85	1444.70	-905.91	-1134.13	1451.53	231.38	3.04	MWD_M	None
210	2024.29	83.27	221.55	29.43	907.30	1473.80	-928.19	-1153.06	1480.23	231.17	2.47	MWD_M	None
211	2053.19	83.24	220.75	28.90	910.69	1502.41	-949.80	-1171.94	1508.50	230.98	0.84	MWD_M	None
212	2082.34	82.86	221.32	29.15	914.22	1531.26	-971.62	-1190.94	1537.01	230.79	0.71	MWD_M	None
213	2111.43	82.87	221.69	29.09	917.83	1560.04	-993.24	-1210.07	1565.50	230.62	0.38	MWD_M	None
214	2140.76	82.95	221.72	29.33	921.45	1589.08	-1014.97	-1229.43	1594.26	230.46	0.09	MWD_M	None
215	2169.42	83.04	221.71	28.66	924.95	1617.46	-1036.20	-1248.36	1622.38	230.31	0.10	MWD_M	None
216	2198.60	82.92	221.88	29.18	928.51	1646.36	-1057.80	-1267.66	1651.03	230.16	0.22	MWD_M	None
217	2227.83	82.95	222.43	29.23	932.11	1675.31	-1079.30	-1287.13	1679.76	230.02	0.57	MWD_M	None
218	2257.56	83.07	223.04	29.73	935.73	1704.78	-1100.97	-1307.15	1709.03	229.89	0.63	MWD_M	None
219	2286.54	82.81	223.64	28.98	939.29	1733.52	-1121.89	-1326.89	1737.61	229.79	0.68	MWD_M	None
220	2315.08	82.92	223.72	28.54	942.83	1761.82	-1142.37	-1346.45	1765.77	229.69	0.14	MWD_M	None
221	2344.40	82.93	223.65	29.32	946.44	1790.90	-1163.41	-1366.55	1794.71	229.59	0.07	MWD_M	None
222	2373.54	82.81	224.10	29.14	950.06	1819.80	-1184.26	-1386.59	1823.48	229.50	0.48	MWD_M	None
223	2402.26	82.90	224.09	28.72	953.63	1848.28	-1204.72	-1406.42	1851.85	229.42	0.10	MWD_M	None
224	2431.99	82.78	224.18	29.73	957.34	1877.77	-1225.89	-1426.96	1881.23	229.33	0.15	MWD_M	None
225	2461.30	83.07	224.67	29.31	960.95	1906.85	-1246.67	-1447.32	1910.21	229.26	0.59	MWD_M	None
226	2490.43	82.98	224.61	29.13	964.49	1935.76	-1267.24	-1467.64	1939.03	229.19	0.11	MWD_M	None
227	2519.16	82.90	225.31	28.73	968.02	1964.27	-1287.41	-1487.78	1967.47	229.13	0.74	MWD_M	None
228	2548.71	82.84	225.23	29.55	971.68	1993.59	-1308.05	-1508.61	1996.72	229.07	0.10	MWD_M	None
229	2576.88	82.89	224.82	28.17	975.18	2021.54	-1327.81	-1528.39	2024.61	229.02	0.44	MWD_M	None
230	**2606.68**	**83.04**	**223.80**	**29.80**	**978.83**	**2051.11**	**-1348.97**	**-1549.05**	**2054.08**	**228.95**	**1.05**	**MWD_M**	**None**
231	2635.65	82.75	223.17	28.97	982.42	2079.84	-1369.83	-1568.83	2082.70	228.87	0.73	MWD_M	None
232	2665.14	83.07	222.28	29.49	986.06	2109.06	-1391.32	-1588.68	2111.80	228.79	0.97	MWD_M	None
233	2694.34	82.87	221.77	29.20	989.63	2137.98	-1412.85	-1608.09	2140.58	228.70	0.57	MWD_M	None
234	2723.69	83.10	221.82	29.35	993.22	2167.05	-1434.57	-1627.50	2169.50	228.61	0.24	MWD_M	None
235	2752.63	82.64	221.29	28.94	996.81	2195.69	-1456.06	-1646.55	2198.01	228.51	0.74	MWD_M	None
236	2781.37	83.01	221.24	28.74	1000.40	2224.12	-1477.49	-1665.36	2226.30	228.42	0.40	MWD_M	None
237	2810.86	83.04	221.21	29.49	1003.98	2253.31	-1499.51	-1684.65	2255.34	228.33	0.04	MWD_M	None
238	2840.20	83.07	221.43	29.34	1007.53	2282.35	-1521.38	-1703.88	2284.25	228.24	0.23	MWD_M	None
239	2868.83	83.12	221.37	28.63	1010.97	2310.69	-1542.70	-1722.67	2312.47	228.15	0.08	MWD_M	None
240	2898.20	82.98	221.17	29.37	1014.52	2339.76	-1564.62	-1741.90	2341.42	228.07	0.25	MWD_M	None
241	2926.78	82.87	221.21	28.58	1018.04	2368.04	-1585.96	-1760.58	2369.58	227.99	0.12	MWD_M	None
242	2956.18	83.01	221.48	29.40	1021.66	2397.13	-1607.86	-1779.86	2398.56	227.91	0.31	MWD_M	None
243	2984.65	82.72	221.70	28.47	1025.19	2425.31	-1628.99	-1798.61	2426.64	227.83	0.39	MWD_M	None
244	3014.30	83.21	223.15	29.65	1028.82	2454.69	-1650.71	-1818.46	2455.94	227.77	1.56	MWD_M	None
245	3043.56	82.55	223.31	29.26	1032.45	2483.70	-1671.87	-1838.34	2484.88	227.72	0.71	MWD_M	None
246	3073.02	83.12	223.13	29.46	1036.12	2512.90	-1693.17	-1858.36	2514.03	227.66	0.62	MWD_M	None
247	3112.02	82.84	222.53	39.00	1040.89	2551.56	-1721.55	-1884.68	2552.60	227.59	0.51	MWD_M	None
248	3131.41	82.98	222.60	19.39	1043.28	2570.77	-1735.73	-1897.69	2571.77	227.55	0.25	MWD_M	None
249	3160.44	83.13	223.05	29.03	1046.79	2599.55	-1756.86	-1917.28	2600.49	227.50	0.49	MWD_M	None
250	3198.90	82.95	223.10	38.46	1051.45	2637.69	-1784.75	-1943.35	2638.55	227.44	0.15	MWD_M	None
251	3228.02	82.72	222.88	29.12	1055.09	2666.55	-1805.88	-1963.05	2667.36	227.39	0.33	MWD_M	None
252	3248.06	83.01	223.06	20.04	1057.58	2686.42	-1820.43	-1976.61	2687.18	227.36	0.52	MWD_M	None
253	3277.44	82.87	223.02	29.38	1061.19	2715.54	-1841.74	-1996.51	2716.26	227.31	0.15	MWD_M	None
254	3306.48	82.84	222.85	29.04	1064.80	2744.32	-1862.84	-2016.14	2744.99	227.26	0.18	MWD_M	None
255	3335.61	82.98	222.85	29.13	1068.39	2773.20	-1884.03	-2035.79	2773.81	227.22	0.15	MWD_M	None
256	3365.04	82.93	222.99	29.43	1072.00	2802.37	-1905.42	-2055.68	2802.94	227.17	0.15	MWD_M	None
257	3393.88	83.02	223.15	28.84	1075.53	2830.97	-1926.33	-2075.23	2831.49	227.13	0.19	MWD_M	None
258	3423.18	82.93	223.14	29.30	1079.11	2860.02	-1947.55	-2095.12	2860.50	227.09	0.09	MWD_M	None
259	3452.58	82.87	223.46	29.40	1082.75	2889.17	-1968.78	-2115.13	2889.61	227.05	0.34	MWD_M	None
260	3481.86	83.04	222.77	29.28	1086.34	2918.20	-1989.99	-2134.99	2918.60	227.01	0.73	MWD_M	None
261	3510.74	83.04	222.63	28.88	1089.84	2946.83	-2011.06	-2154.43	2947.19	226.97	0.15	MWD_M	None
262	3539.69	83.04	222.63	28.95	1093.35	2975.52	-2032.20	-2173.89	2975.84	226.93	0.00	MWD_M	None
263	3568.44	83.04	222.48	28.75	1096.83	3004.02	-2053.23	-2193.19	3004.30	226.89	0.16	MWD_M	None
264	3598.02	82.98	222.36	29.58	1100.43	3033.33	-2074.90	-2212.99	3033.57	226.84	0.14	MWD_M	None
265	3627.49	82.92	222.68	29.47	1104.05	3062.54	-2096.46	-2232.76	3062.74	226.80	0.33	MWD_M	None
266	3656.73	83.01	222.80	29.24	1107.63	3091.52	-2117.77	-2252.46	3091.68	226.77	0.16	MWD_M	None
267	3685.30	82.90	222.67	28.57	1111.13	3119.83	-2138.60	-2271.70	3119.97	226.73	0.18	MWD_M	None
268	3714.76	82.81	222.80	29.46	1114.80	3149.03	-2160.07	-2291.53	3149.13	226.69	0.16	MWD_M	None
269	3743.85	82.92	222.70	29.09	1118.41	3177.86	-2181.26	-2311.13	3177.93	226.66	0.16	MWD_M	None
270	3772.89	82.90	222.71	29.04	1121.99	3206.63	-2202.44	-2330.67	3206.68	226.62	0.02	MWD_M	None

270	3772.89	82.90	222.71	29.04	1121.99	3206.63	-2202.44	-2330.67	3206.68	226.62	0.02	MWD_M	None
271	3802.03	82.78	222.85	29.14	1125.63	3235.51	-2223.66	-2350.31	3235.52	226.59	0.19	MWD_M	None
272	3831.57	82.95	222.73	29.54	1129.30	3264.79	-2245.17	-2370.22	3264.77	226.55	0.21	MWD_M	None
273	3860.84	82.93	222.76	29.27	1132.89	3293.80	-2266.50	-2389.94	3293.76	226.52	0.04	MWD_M	None
274	3890.43	83.01	222.65	29.59	1136.52	3323.12	-2288.08	-2409.86	3323.06	226.48	0.14	MWD_M	None
275	3918.61	83.10	222.98	28.18	1139.92	3351.06	-2308.60	-2428.87	3350.98	226.45	0.37	MWD_M	None
276	3948.60	82.95	222.88	29.99	1143.56	3380.80	-2330.40	-2449.14	3380.69	226.42	0.18	MWD_M	None
277	3977.32	83.01	222.99	28.72	1147.07	3409.27	-2351.27	-2468.56	3409.14	226.39	0.13	MWD_M	None
278	4006.70	82.69	222.84	29.38	1150.73	3438.39	-2372.62	-2488.41	3438.24	226.36	0.37	MWD_M	None
279	4036.26	81.37	222.53	29.56	1154.83	3467.62	-2394.14	-2508.25	3467.45	226.33	1.40	MWD_M	None
280	4066.07	77.51	221.67	29.81	1160.29	3496.87	-2415.87	-2527.90	3496.67	226.30	4.04	MWD_M	None
281	4095.39	73.91	220.89	29.32	1167.53	3525.19	-2437.22	-2546.64	3524.97	226.26	3.82	MWD_M	None
282	4123.52	70.84	220.51	28.13	1176.04	3551.90	-2457.54	-2564.12	3551.65	226.22	3.35	MWD_M	None
283	4153.05	68.11	220.64	29.53	1186.40	3579.44	-2478.55	-2582.11	3579.17	226.17	2.82	MWD_M	None
284	4182.48	65.88	220.41	29.43	1197.90	3606.42	-2499.14	-2599.71	3606.13	226.13	2.32	MWD_M	None
285	4211.99	62.57	221.14	29.51	1210.73	3632.89	-2519.26	-2617.06	3632.59	226.09	3.49	MWD_M	None
286	4241.13	58.93	221.72	29.14	1224.96	3658.24	-2538.32	-2633.88	3657.92	226.06	3.84	MWD_M	None
287	4270.18	55.34	222.42	29.05	1240.73	3682.59	-2556.43	-2650.22	3682.26	226.03	3.82	MWD_M	None
288	4299.75	51.76	223.11	29.57	1258.29	3706.34	-2573.89	-2666.37	3706.00	226.01	3.73	MWD_M	None
289	4328.84	50.02	223.66	29.09	1276.64	3728.90	-2590.30	-2681.87	3728.55	226.00	1.88	MWD_M	None
290	4343.75	49.03	223.86	14.91	1286.32	3740.23	-2598.49	-2689.72	3739.88	225.99	2.05	MWD_M	None
291	4375.03	46.72	224.47	31.28	1307.30	3763.42	-2615.13	-2705.88	3763.07	225.98	2.29	MWD_M	None
292	4404.38	42.24	222.93	29.35	1328.24	3783.97	-2629.99	-2720.09	3783.61	225.96	4.79	MWD_M	None
293	4433.66	38.99	222.93	29.28	1350.46	3803.00	-2643.94	-2733.07	3802.64	225.95	3.38	MWD_M	None
294	4463.05	34.99	224.20	29.39	1373.93	3820.67	-2656.76	-2745.25	3820.31	225.94	4.22	MWD_M	None
295	4491.90	31.26	222.22	28.85	1398.09	3836.42	-2668.24	-2756.05	3836.05	225.93	4.10	MWD_M	None
296	4521.32	28.34	216.34	29.42	1423.62	3850.93	-2679.52	-2765.32	3850.56	225.90	4.28	MWD_M	None
297	4550.49	28.90	217.79	29.17	1449.23	3864.75	-2690.67	-2773.74	3864.37	225.87	0.93	MWD_M	None
298	4593.00	30.00	220.00	42.51	1486.24	3885.50	-2706.93	-2786.87	3885.11	225.83	1.11	Proj. to TD	

Company: **ESSO Australia Pty Ltd**

Schlumberger

Well: **SNA A11A**

Field: **Snapper**

Rig: **ISDL 175**

8.50 In. Section

State: **Victoria**

EcoScope* Service

1:200 Measured Depth

Real Time Mode Log