

# WELL COMPLETION LOG Scales - 1:200, 1:500



## EAST PILCHARD-1

Gippsland Basin, Victoria  
Concession: VIC/L9

<b>POST-DRILL LOCATION:</b> (Top of Latrobe)	Latitude: 38° 11' 54.184" S Longitude: 148° 33' 42.825" E AMG X: 5,771,005.83 North AMG Y: 636,764.56 East	<b>COMPILED BY:</b>	Andrew Hodgson / Sheryl Sazenis
<b>ELEVATION:</b>	G.L.: -91.3m R.T.: 25m Water Depth: 91.3m	<b>DRAFTED BY:</b>	Andrew Hodgson
<b>DATES:</b>	On location: 02/07/2001 Spudded: 03/07/2001 Reached TD: 01/08/2001 Rig Released: 13/08/2001	<b>DRILLED BY:</b>	Ocean Bounty - MODU
<b>SERVICE COMPANIES:</b>	DRILLING CONTRACTOR: Diamond Offshore General Company LWD/MWD: Schlumberger Anadrill GYRO SURVEYING: ---- CORING: ---- WIRELINE LOGGING: Schlumberger CEMENTING: Halliburton CASING: Weatherford	<b>TOTAL DEPTH:</b>	3138.0m MDRT Drillers 3140.0m MDRT Loggers
		<b>PLUGGED BACK T.D.:</b>	
		<b>CLASSIFICATION:</b>	Wildcat
		<b>STATUS:</b>	Gas Discovery Well
		<b>PRODUCTION TESTING:</b>	----- DIVERS: Stolt Comex Seaway MUD LOGGING: BHI PRESSURE RECORDING: ---- WELL VELOCITY SURVEY: Schlumberger MUD ENGINEERING: Baroid LINER: Baker Oil Tools

### 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	SHOW OR STAIN
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	HYDROCARBON CUT
PERFORATED INTERVAL		FLUORESCENCE
PLUG		GAS SHOW
←SST	RECOVERED SIDE WALL CORE LITHOLOGY SST - Sandstone SLST - Siltstone MST - Mudstone SH - Shale	OIL PRODUCTION
←	SIDE WALL CORE - NO RECOVERY	GAS PRODUCTION
←SST	RECOVERED MSCT	INTERPRETED OIL PRODUCTION
◁	MSCT - NO RECOVERY	INTERPRETED GAS PRODUCTION
←	FIT	INTERPRETED WATER PRODUCTION
←P2/11	MDT PRETEST SUITE/RUN/SEAT NUMBER	WATER PRODUCTION
←S11/2	MDT SAMPLE SUITE/RUN/SAMPLE NUMBER	CONDENSATE PRODUCTION
←P2/40	MDT VERTICAL/HORIZONTAL PERMEABILITY TEST	INTEPRETED CONDENSATE BEARING
⊥	PACKER	DST WITH GAS RECOVERED
□	BRIDGE PLUG	DST WITH OIL RECOVERED
		SURVEY POINT
		13-3/8" CASING SHOE
		MUD

### LITHOLOGICAL SYMBOLS

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

### LOGGING AND SURVEYING

Log Suite #1	Interval (mMDRT)	Survey	Interval (mMDRT)
<b>RUN #1</b> PEX-HALS-DSI-HNGS-LEHQT	2945m - 873m 2660m - 2600m Repeat Section 2915m - 1564m HNGS & Neutron very high resolution 2934m- 1564m HALS-DSI P & S in upper dipole mode 1564m - 873m PEX normal resolution, HALS-DSI in P & S mode GR run to Sea floor 91m	Anadrill MWD 116m – 2459.8m  SDI - Multi shot Survey 2488m - 2771m  Single shot survey	116m – 2459.8m  2488m - 2771m  2937m
<b>RUN #2</b> MDT-GR-LEHQT Pressure tests 1 sample	1689.03m - 2926.5m 93 pretests and 1 sample. 11 tight and 6 lost seal.		
<b>RUN #3</b> FMI-HRLA-GR-LEHQT	2947.5m - 2220m	FMI Inclinator	2952.75m - 2220m
<b>RUN #4</b> MDT-GR-LEHQT (samples only)	2593m - 2641m Samples only (Run stopped pump failure) 5 Sample points, all ok, 7 samples, 4 ok, 2 empty, 1 filtrate		
<b>RUN #4A</b> MDT-GR-LEHQT (samples, pre-tests, OFA)	2602m - 2885.4m Samples, Pre-Tests and OFA 21 Sample points, 13 ok, 2 lost seal, 5 tight, 1 supercharged 8 samples, 3 OFA, 2 pretest.		
<b>RUN #5</b> MSCT-GR-LEHQT	2450m - 2878.5m Cut 25 cores, recovered 20 cores.		

### WELL DATA

Date	24/07/2001 - 25/07/2001	25/07/2001 - 26/07/2001	25/07/2001 - 26/07/2001	27/07/2001
Run	1	2	3	4
Log	PEX-HALS-DSI-HNGS-LEHQT	MDT-GR-LEHQT	FMI-HRLA-GR-LEHQT	MDT-GR-LEHQT
Depth Driller	2945m	2945m	2945m	2945m
Depth Logger	2947.5m	2947.5m	2947.5m	2947.5m
Bottom Log Interval	2945.2m	2926.5m	2947.5m	2641m
Top Log Interval	873.5m, GR to 91m.	1689.03m	2220m	2593m
Casing Driller	873m	873m	873m	873m
Casing Logger	873.5m	873.5m	873.5m	873.5m
Casing Size	13 3/8"	13 3/8"	13 3/8"	13 3/8"
Casing Weight	68 lb/ft	68 lb/ft	68 lb/ft	68 lb/ft
Bit Size	12 1/4"	12 1/4"	12 1/4"	12 1/4"
Type of Fluid in Hole	Kcl/PHPA/Polymer/Glycol	Kcl/PHPA/Polymer/Glycol	Kcl/PHPA/Polymer/Glycol	Kcl/PHPA/Polymer/Glycol
Density	10.15 ppg	10.15 ppg	10.15 ppg	10.15 ppg
Rm @ Measured Temp.	0.0932 @ 18.9°C	0.0932 @ 18.9°C	0.0932 @ 18.9°C	0.0932 @ 18.9°C
Rmf @ Measured Temp.	0.0761 @ 18.9°C	0.0761 @ 18.9°C	0.0761 @ 18.9°C	0.0761 @ 18.9°C
Rmc @ Measured Temp.	0.210 @ 18.9°C	0.210 @ 18.9°C	0.210 @ 18.9°C	0.210 @ 18.9°C
Max. Recorded Temp.	97.8°C	108.9°C	109.4°C	93.3°C
Equipment / Location	unit 25, VEA-APG Sale	unit 25, VEA-APG Sale	unit 25, VEA-APG Sale	unit 25, VEA-APG Sale
Recorded By	Francisco/Rohan	Francisco/Rohan	Francisco/Rohan	Francisco/Rohan
Witnessed By	Arnaldo Ribeiro/Mike Woodmansee	Arnaldo Ribeiro/Mike Woodmansee	Arnaldo Ribeiro/Mike Woodmansee	Arnaldo Ribeiro/Mike Woodmansee

### WELL DATA

Date	27/07/2001 - 28/07/2001	28/07/2001 - 29/07/2001		
Run	4A	5		
Log	MDT-GR-LEHQT	MSCT-GR-LEHQT		
Depth Driller	2945m	2945m		
Depth Logger	2947.5m	2947.5m		
Bottom Log Interval	2885m	2878m		
Top Log Interval	2602m	2450m		
Casing Driller	873m	873m		
Casing Logger	873.5m	873.5m		
Casing Size	13 3/8"	13 3/8"		
Casing Weight	68 lb/ft	68 lb/ft		
Bit Size	12 1/4"	12 1/4"		
Type of Fluid in Hole	Kcl/PHPA/Polymer/Glycol	Kcl/PHPA/Polymer/Glycol		
Density	10.15 ppg	10.15 ppg		
Rm @ Measured Temp.	0.0932 @ 18.9°C	0.0932 @ 18.9°C		
Rmf @ Measured Temp.	0.0761 @ 18.9°C	0.0761 @ 18.9°C		
Rmc @ Measured Temp.	0.210 @ 18.9°C	0.210 @ 18.9°C		
Max. Recorded Temp.	107.8°C	110°C		
Equipment / Location	unit 25, VEA-APG Sale	unit 25, VEA-APG Sale		
Recorded By	Francisco/Rohan	Francisco/Rohan		
Witnessed By	Arnaldo Ribeiro/Mike Woodmansee	Arnaldo Ribeiro/Mike Woodmansee		

### LOGGING AND SURVEYING

Log Suite #2	Interval (mMDRT)	Survey	Interval (mMDRT)
<b>RUN #1</b> TLD-HGNS-HNGS	Repeat 3139m - 3078m 3139m - 2870m	Single shot	3120m.
<b>RUN #2</b> HALS-HGNS-DSI-LEHQT	Repeat 3139m - 3080m 3139m - 2870m		
<b>RUN #3</b> MDT-GR-LEHQT	2825.5m - 2956.2m 17 pre-tests, 9 dry, 2 lost seal, 1 tight, 5 good.		
<b>RUN #4</b> DUAL-CSAT-VSP	3140m - 146m Check shot at 1775m		
<b>RUN #5</b> MDT-GR-LEHQT (pressures and samples)	2825.5m - 3125.5m 41 pre-tests. 13 good, 12 lost seal/supercharged, 12 tight, 8 samples taken from 4 depths 7 recovered		
<b>RUN #6</b> CST-GR	3134m - 1650m Shot 60 cores shot, 54 recovered, 2 Empty, 4 miss fire		

### WELL DATA

Date	2 Aug 2001	2 Aug 2001	2 Aug - 3 Aug 2001	3 Aug 2001
Run	1	2	3	4
Log	TLD-HGNS-HNGS	HALS-HGNS-DSI-LEHQT	MDT-GR-LEHQT	DUAL-CSAT-VSP
Depth Driller	3138m	3138m	3138m	3138m
Depth Logger	3140m	3140m	3140m	3140m
Bottom Log Interval	3139m	3139m	2956.2	3140m
Top Log Interval	2870m.	2870m.	2825.5	146m
Casing Driller	873m	873m	873m	873m
Casing Logger	873.5m	873.5m	873.5m	873.5m
Casing Size	13 3/8"	13 3/8"	13 3/8"	13 3/8"
Casing Weight	68 lb/ft	68 lb/ft	68 lb/ft	68 lb/ft
Bit Size	12 1/4"	12 1/4"	12 1/4"	12 1/4"
Type of Fluid in Hole	Kcl/PHPA/Polymer/Glycol	Kcl/PHPA/Polymer/Glycol	Kcl/PHPA/Polymer/Glycol	Kcl/PHPA/Polymer/Glycol
Density	10.15 ppg	10.15 ppg	10.15 ppg	10.15 ppg
Rm @ Measured Temp.	0.1020 @ 15.6°C	0.1020 @ 15.6°C	0.1020 @ 15.6°C	0.1020 @ 15.6°C
Rmf @ Measured Temp.	0.0883 @ 15.6°C	0.0883 @ 15.6°C	0.0883 @ 15.6°C	0.0883 @ 15.6°C
Rmc @ Measured Temp.	0.2055 @ 15.6°C	0.2055 @ 15.6°C	0.2055 @ 15.6°C	0.2055 @ 15.6°C
Max. Recorded Temp.	98.9°C	103.3°C	113.9°C	103.3°C
Equipment / Location	unit 25, VEA-APG Sale	unit 25, VEA-APG Sale	unit 25, VEA-APG Sale	unit 25, VEA-APG Sale
Recorded By	Francisco/Rohan	Francisco/Rohan	Francisco/Rohan	Francisco/Rohan
Witnessed By	Arnaldo Ribeiro/Mike Woodmansee	Arnaldo Ribeiro/Mike Woodmansee	Arnaldo Ribeiro/Mike Woodmansee	Arnaldo Ribeiro/Mike Woodmansee

### WELL DATA

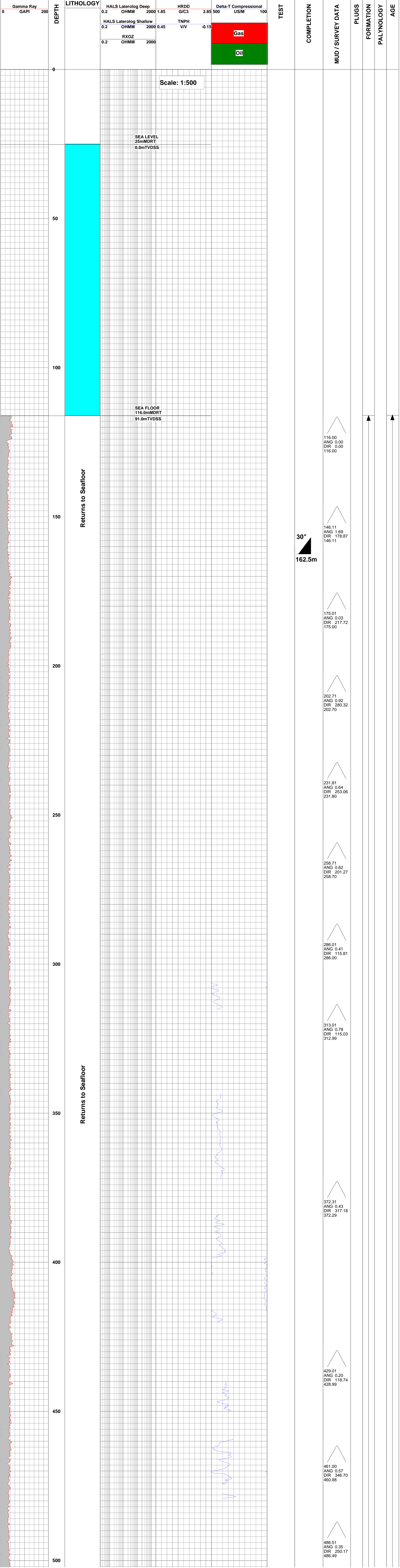
Date	4 Aug 2001	5 Aug 2001		
Run	5	6		
Log	MDT-GR-LEHQT	CST-GR		
Depth Driller	3138m	3138m		
Depth Logger	3140m	3140m		
Bottom Log Interval	3125.5m	3134m		
Top Log Interval	2825.5m.	1650m.		
Casing Driller	873m	873m		
Casing Logger	873.5m	873.5m		
Casing Size	13 3/8"	13 3/8"		
Casing Weight	68 lb/ft	68 lb/ft		
Bit Size	12 1/4"	12 1/4"		
Type of Fluid in Hole	Kcl/PHPA/Polymer/Glycol	Kcl/PHPA/Polymer/Glycol		
Density	10.15 ppg	10.15 ppg		
Rm @ Measured Temp.	0.1020 @ 15.6°C	0.1020 @ 15.6°C		
Rmf @ Measured Temp.	0.0883 @ 15.6°C	0.0883 @ 15.6°C		
Rmc @ Measured Temp.	0.2055 @ 15.6°C	0.2055 @ 15.6°C		
Max. Recorded Temp.	122.5°C	N/A		

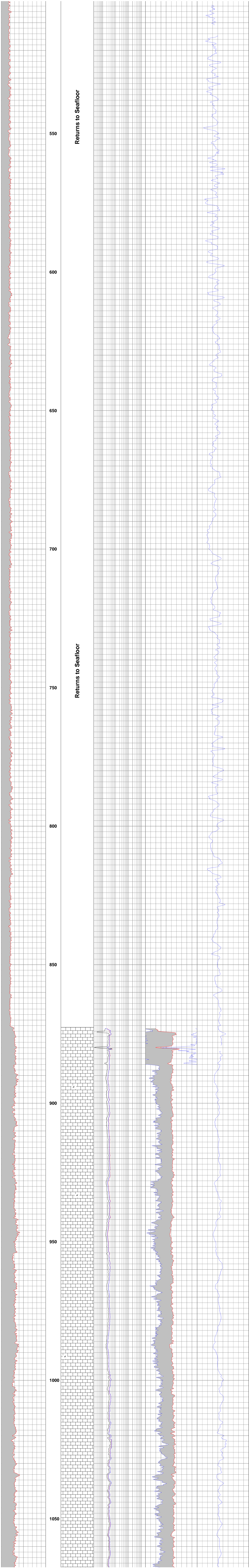


Equipment / Location	unit 25, VEA-APG Sale	Unit 25, VEA-APG Sale		
Recorded By	Francisco/Rohan	Francisco/Rohan		
Witnessed By	Mike Woodmansee	Mike Woodmansee		

CORES			PERFORATIONS		
From (mMDRT)	To (mMDRT)	Rec %	From (mMDRT)	To (mMDRT)	Shots/ft

CASING				PLUGS		
Size	Set @ (mMDRT)	Sx Cmt	Formation	From (mMDRT)	To (mMDRT)	Sx Cmt
30"	162.5	1020	Gippsland Limestone	826	890	73
13 3/8"	873	2097	Gippsland Limestone	(suspension plug)		
9 5/8"	3126.2	1472	Golden Beach Group			





515.01  
ANG 0.39  
DIR 359.99  
514.99

573.61  
ANG 0.14  
DIR 199.31  
573.59

603.21  
ANG 1.01  
DIR 174.66  
603.19

647.01  
ANG 0.29  
DIR 29.30  
646.99

689.61  
ANG 0.43  
DIR 162.88  
689.59

719.61  
ANG 0.45  
DIR 20.00  
719.59

777.81  
ANG 0.06  
DIR 98.86  
777.79

806.91  
ANG 0.50  
DIR 206.10  
806.90

835.90  
ANG 0.73  
DIR 152.70

846.81  
ANG 0.27  
DIR 283.60  
846.80

885  
MW 9.1  
FV 90  
PV 30  
YP 12  
pH 9

962.46  
ANG 0.19  
DIR 13.50  
962.45

990.96  
ANG 0.18  
DIR 15.00  
990.95

1019.86  
ANG 0.26  
DIR 22.00  
1019.85

1050  
MW 9.3  
FV 60  
PV 16  
YP 10  
pH 9.3

GIPPSLAND LIMESTONE

MIOCENE - RECENT



