



BEACH PETROLEUM

BEACH PETROLEUM NO LIABILITY

EAST SEACOMBE NO. 1

WELL COMPLETION REPORT

291080

OIL and GAS DIVISION

Prepared by J.D.C. Patchett

October, 1980

Distribution: Beach 2
Department of Minerals and Energy 1

SUMMARY

East Seacombe No. 1 was drilled to test the Latrobe Group on — a fault closed feature in the onshore portion of the petroliferous Gippsland Basin.

The well was abandoned as a dry hole after penetrating 877 feet $(267\ m)$ of Traralgon Formation. Total depth reached was 4466 feet $(1361\ m)$.

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LIST OF FIGURES

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Location Map

FIGURE 2 East Seacombe No. 1
Location Map (on Top

Traralgon Formation).

FIGURE 3 East Seacombe No. 1
Actual Stratigraphy

FIGURE 4 Stratigraphic Correlation

Spoon Bay No. 1 - East Seacombe

No. 1 - East Reeve No. 1.

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Inc. Mudlog

ENCLOSURE 2 Well Composite Log

1. PURPOSE OF WELL

East Seacombe No. 1 was programmed to test the hydrocarbon potential of the Traralgon Formation under structurally favourable conditions. Closure was provided by structural contours to the east, south and west. Faulting provided closure to the north. East dip is not as well controlled by seismic as south and west.

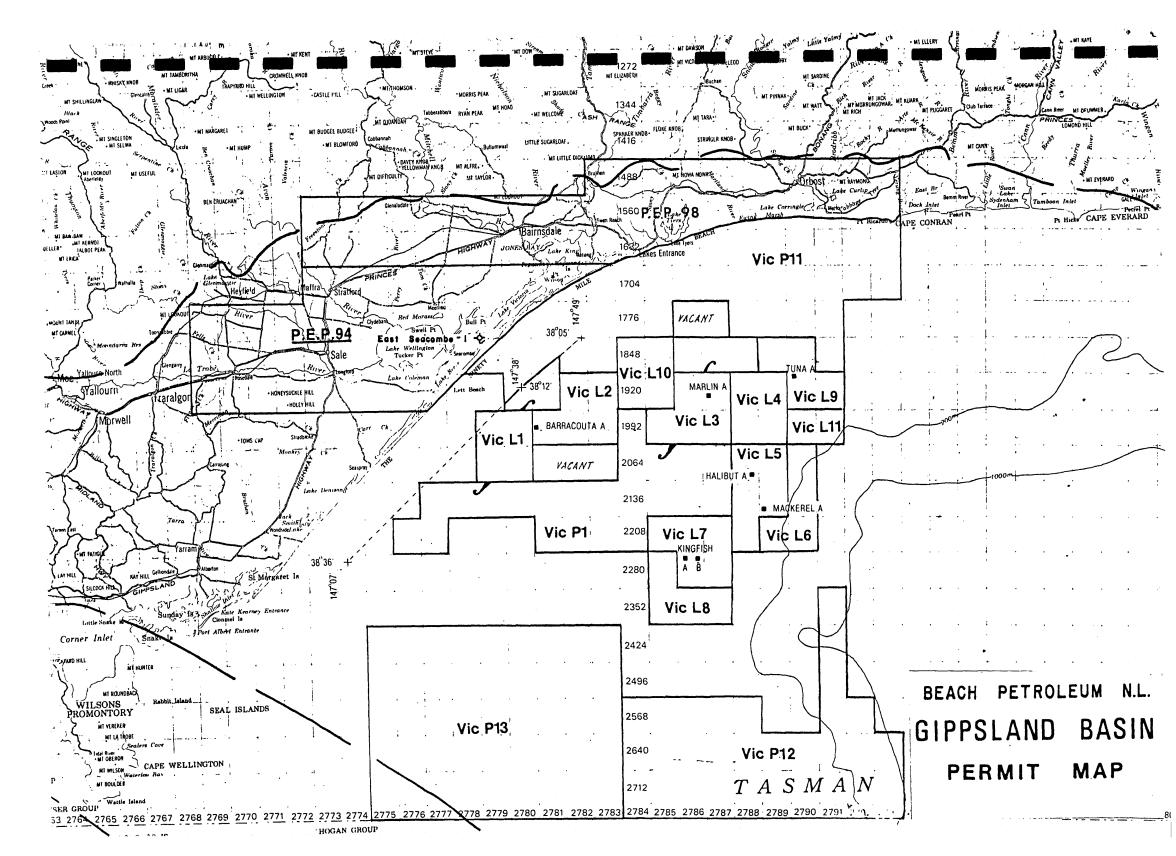
The East Seacombe prospect lies on shore within the Lake Wellington Depression which is on the northern flank of the Gippsland Basin. All the major stratigraphic units of the Gippsland Basin are present at this location - in particular the Latrobe Group which is the host formation of the prolific giant oil and gas fields in the offshore part of the basin. The well was programmed to test the Latrobe Group on a structural closure in part of the Gippsland Basin where source, reservoir and cap rocks are all present. The source rocks are considered to be thermally mature.

Structure in the Lake Wellington Depression is similar to that present on the northern flank of the basin offshore where fault-controlled features similar to East Seacombe are known to contain hydrocarbons. Our studies suggested that no previous well drilled onshore in this part of the Gippsland Basin was drilled to test the type of structural closure that was seen at the East Seacombe location.

2. WELL HISTORY

2.1. Location

The well was located 42 feet west of shot point SP47 on seismic line No. 69-66 of the Woodside 1969 Gippsland Basin Seismic Survey. The approximate geographic co-ordinates of the well are:-



38° 05' 00" S 147° 31' 57" E

This is about 3 kilometres west of Loch Sport, just north of the main road.

2.2. General Data

- i) Well Name and Number
 East Seacombe No. 1
- ii) Petroleum Title
 Petroleum Exploration Permit No. 94.
- iii) Elevation
 Ground Level 6 feet above mean sea level (1.8m)
 Kelly Bushing 17 feet above mean sea level (5.2m)
- iv) Total Depth
 4466' (Driller), 4467' (Logger) (1361m)
- v) Well Spudded
 0800 Hours, 29th June, 1980
- vi) Well Reached T.D.
 1930 Hours, 12th July, 1980
- vii) Well Abandoned
 1000 Hours, 15th July, 1980
- viii) Status
 Plugged and abandoned as a dry hole.

2.3. Drilling Data

2.3.1. Rig Owned By

O.D. & E. Pty. Ltd. of 50 Bridge Street, Sydney, N.S.W. 2000. Specifications set out as Appendix 1.

2.3.2. Casing and Cementing Details

Conductor Pipe:-

Size:

19½ inches

Set at:

40 feet (12m)

Cement:

108 sacks construction

cement with 2% CaCl2.

Surface Casing:-

Size:

13 3/8 inch, 43.5 lb/ft, J55

Set at:

154 feet (47m)

Cement:

136 sacks Adelaide

construction cement.

Cemented to: Surface

Intermediate Casing:

Size:

9 5/8 inch, 43.5 lb/ft. J55

Set at:

965 feet (294m)

Cement:

336 sacks of Adelaide

construction cement at

15.2 lb/gal.

Cemented to: Returns to surface.

2.3.3. Drilling Fluids

A bentonite/water slurry was used to drill to 3500 feet (1067m). Below that depth a Spersene/XP20/CMC system was used. Mud properties were:-

Weight : 9.4 - 9.6

> Viscosity , 35-40 sec. API

> Fluid Loss: <6 ml/30 min.

2.3.4. Water Supply

Water was obtained from Lake Victoria until 3500 feet (1067m). Below that depth fresh water from a water bore in Loch Sport was used.

Formation Sampling and Testing

Representative bagged cuttings were collected from the shale shaker at the following intervals during the drilling of the well.

> Surface to 964 feet (293m) every 30 feet (9m). 964 to T.D. every 10 feet (3m).

2.4.2. Testing

.../

Two DST's and four FIT's were attempted.

Drill Stem Tests

DST No. 1A

Interval to be tested 3580-3624 feet (1091-1105m). Misrun. Hit bridge at 3434 feet (1074m). Did no reach bottom

DST NO. 1B

Interval Tested: 3580-3624 feet (1091-1106m)

Packers set at: 3572 and 3580 feet with no

cushion (1089 and 1091m)

Recovery:

Nil. Test failed because

the packer failed to seat.

Pressures:

Top gauge at 3580feet (1091m)

IHP=FHP=1768psi

Bottom gauge at 3614 feet (1101m

IHP=FHP=1818psi

The Halliburton Test Charts form Appendix 2.

Formation Interval Tests

FIT No. 1 (4267.5 feet) (1301m)

Recovered 10 litres of fresh water with a very strong hydrogen sulphide odour and trace of oil scum. Rw=2.2 at 67°F. (3,000 ppm NaCl equivalent). IHP=2043 psi. FFP=1826 psi.

FIT No. 2 (3952 feet) (1205m)

No recovery. Test tool failed to fill.

FIT No. 3 (3620 feet) (1103m)/
Recovered 0.445 cubic feet of gas and 10 litres of slightly blackish water with a very strong hydrogen sulphide odour and a minor oil scum.
Rw=0.94 at 65°F (7,000 ppm NaCl equivalent).
IHP=1789 psi FFP=665 psi.

FIT No. 4 (3952-3970 feet) (1205-1210m)
Successive intervals between 3952-3970 feet
(1205-1210m) were tested. However either the packer failed to seat or no fluid ingress was detected at any depth.

2.5. Logging and Surveys

2.5.1. Mud Logging

A standard Exploration Logging of Australia Inc. unit provided a mud logging service. The mudlog is included as Enclosure 1.

2.5.2. Go International Australia Pty. Ltd. provided wireline logging and testing of the well.

Logs	Interval	Run No.
Induction Electrical, BHC Sonic Log with Gamma Ray and Calipér (Gamma Ray to 60 feet)	964' - 154' (294 - 47m)	1'
Induction Electrical, BHC Sonic Log with Gamma Ray and Caliper	4469' - 964' (1362 - 294m)	2
Compensated Density - Compensated Neutron Log with Caliper	4469' - 3450' (1362 - 1051m)	1

2.5.3. Deviation Surveys

During drilling deviation surveys were completed.

184' (56m) -
$$3/4^{\circ}$$
412' (126m) - $\frac{1}{4}^{\circ}$
608' (185m) - $\frac{1}{2}^{\circ}$
784' (239m) - $3/4^{\circ}$
943' (287m) - $\frac{1}{2}^{\circ}$
1483' (452m) - $\frac{1}{2}^{\circ}$
1586' (483m) - $\frac{1}{2}^{\circ}$
2193' (668m) - $\frac{1}{2}^{\circ}$
2696' (822m) - $\frac{1}{4}^{\circ}$
3407' (1038m) - 1 $3/4^{\circ}$
3916' (1194m) - 1
4414' (1345m) - $3/4^{\circ}$

2.5.4. Velocity Survey

A velocity survey was run at T.D. by Velocity Data Pty. Ltd. 27 shots were fired for the velocity survey. A further 5 shots were used to form a refraction survey.

The results of the velocity survey form Appendix 3.

3. Results of Drilling

3.1. Stratigraphy

(A Well Composite Log forms Enclosure 2).

3.1.1. Formation Tops

All depths from KB, 11 feet (3.3m) above permanent datum. Permanent datum is ground level, 6 feet (1.8m) above sea level.

Formation	Inter	Interval			Depth Subsea		
	Feet Metres		Ft.	Μ.	Ft.	М.	
Jemmy's Point	Surf- 712	Surf- 217	712	21/7	+6	+1.8	
Gippsland Limestone	712-2740	217 - 835	712 ·	621	-695	-211	
Lakes Entrance	2740-3533	835-1076	793	241	-2723	-829	
Giffard	3533-3590	1076-1094	57	17	-3516	-1071	
Latrobe Group							
Undifferentiated	3590-T.D.	1094-T.D.	877	267	-3573	-1089	

Note: - The well was still in the LaTrobe Group at Total Depth.

3.1.2. Formation Lithologies

Jemmy's Point Formation (surface - 712 feet) (Surface-217m) The Jemmy's Point Formation at East Seacombe No. 1 is a dominantly course grained sandstone unit with minor siltstones and mudstones in the upper 400 feet (122m). Below 400 feet (122m), the unit is dominanted by marls and mudstones with relatively minor sandstones in the lower part. The marls are highly fossiliferous.

Gippsland Limestone (712 - 2740 feet) (217 - 835m).

The Gippsland Limestone is a calcium carbonate dominated sequence. Below 2570 feet (783m) the limestone becomes progressively more argillaceous and grades in part to marl.

The Limestone shows a range of gradation through calcarenite to skeletal grainstone to calcilutite and to marl. The general trend of the unit however, is that of increasing argillaceous content with depth.

Faunal assemblage shows a great diversity and includes forams, plecypods, gastropod fragments, corals, bryozoans and echinoid spines and plates. Shell fragments are generally broken and subsequently eroded.

Lakes Entrance Formation (2740 - 3533 feet) (835 - 1076m)
The contact with the overlying Gippsland Limestone is not clear from cuttings samples and the top was picked using wireline logs. The lithology of the Lakes Entrance Formation is of siltstone grading to silty mudstone. The siltstone is light grey to olive grey with calcareous matrix. Grains are silt size and composed of quartz and lithic material. There are occasional glauconite pellets and rare pyrite as nodules and in finely desseminated form. Because of the high clay content the Lakes Entrance Formation formed abundant cavings which masked deeper lithologies.

Giffard Formation (3533 - 3590 feet) (1076 - 1094m)

The Giffard Formation represents the transitional unit above the Traralgon Formation unconformity and below the Lakes Entrance. At East Seacombe No. 1, the Giffard Formation is represented by a fine grained dirty calcareous, glauconitic sandstone. Two thin limestones are also recognised within this formation.

LaTrobe Group (undifferentiated) (3590 - TD) (1094 - TD)
The LaTrobe Group at the East Seacombe No. 1 well has
been subdivided into two basic lithologies. What is now
recognised as a distinct upper lithological unit has not

PE904834

This is an enclosure indicator page. The enclosure PE904834 is enclosed within the container PE902709 at this location in this document.

The enclosure PE904834 has the following characteristics:

ITEM_BARCODE = PE904834
CONTAINER_BARCODE = PE902709

NAME = Stratigraphic Well Correlation

BASIN = GIPPSLAND PERMIT = PEP 94 TYPE = WELL

SUBTYPE = CROSS_SECTION

DESCRIPTION = East Seacombe 1 Stratigraphic Well

Correlation between Spoon Bay 1 - East Seacombe 1 - East Reeve 1. Figure 4 of

WCR.

REMARKS =

DATE_CREATED = 29/07/80 DATE_RECEIVED = 29/10/80

 $W_NO = W733$

WELL_NAME = East Seacombe-1

CONTRACTOR =

CLIENT_OP_CO = Beach Petroleum N.L.

(Inserted by DNRE - Vic Govt Mines Dept)

previously been described in reports on nearby wells.

This unit is now considered to be present in these wells.

Unit 1 This unit is present between 3590 - 3690 feet
(1094 - 1124m). It is recognised in the
Spoon Bay No. 1, Dutson Downs No. 1 and East
Reeve No. 1 wells. It is probably a coarsening
upward sand unit with a high content of soluable
clay matrix. The abundance of Lakes Entrance
Formation cavings made identification of the
lithology difficult. The gamma ray log shows
quite high clay content (suggestive of shale)
while other logs confirm the presence of sand.

Unit 2 This sequence of the LaTrobe group has been identified as the Traralgon Formation, recognised elsewhere in this part of the basin. The upper part of the unit is composed predominantly of thick sand beds. The central part is dominantly coals. The lowest part was interbedded sandstones, shales and minor coals. Toward the base of the unit an increasing number of lithic fragments grading to pebble size were recognised in the cuttings. The well was terminated while still within this unit.

3.2. Hydrocarbon Occurences

Only minor gas levels were recorded by the gas detector while drilling this well. Tests were run to check all possible shows indicated on the wireline logs. There were no significant hydrocarbons recovered on any of the tests.

4. Conclusions

A. The East Seacombe No. 1 test was unsuccessful in finding hydrocarbons. The following reasons are put forward as possible explanations of that failure.

It is possible that:-

- 1. The structure was not closed. Prior to drilling it was recognised that closure in an easterly direction was not as fully controlled by seismic as one might wish. Further seismic surveys would be required to check this possibility.
- 2. The fault does not seal. This is a very likely possibility. There is no case offshore of a discovery in a structure entirely dependent on fault closure for entrapment but one would expect the Lakes Entrance Formation to provide seal if the throw on the fault did not exceed the thickness of this formation.
- 3. The structure has been flushed by the regional hydrodynamic flow gradient. Sandstones within the LaTrobe Group are fresh water filled. We believe that the possibility of flushing need not be a deterrent to exploration and point to the fact that most fields in the basin have fresh formation waters underlying the gas or oil. Providing that there is sufficient protection from the regional gradient traps can hold hydrocarbons.
- 4. There is no structural closure present at the top of the Latrobe Group. The Traralgon top came in about 200' high on prognosis and unexpected thick sequence of sandstone was encountered above the Traralgon Formation proper. This sequence could be a channel-fill deposit filling an erosional channel at the top of the Traralgon Formation. This type of post-Traralgon, pre-Giffard channel-fill deposit is recognised offshore.

X

In our pre-drill interpretation we mapped at the coal measures within the Traralgon Formation and considered that this horizon reflected structure at the top of the Latrobe Group. Our post-drill interpretation of the results of the drilling and their relationship to the seismic is that the top of the Latrobe Group is probably erosional in nature and bears no relationship to the intra-Latrobe structure. To locate traps at the top of the Latrobe, and to find drilling targets predicated on hydrocarbons being trapped at this level, requires the ability to be able to map the top of the Latrobe Group. This is not possible on existing seismic data but may be possible with the use of modern data acquisition and Structure within the Traralgon Formation is processing. either not closed (see 1 above) or the fault does not seal at these levels.

B. Before any further drilling could be undertaken in this part of the basin (which still must be regarded as being prospective) further seismic must be undertaken. It will be necessary for this seismic to repeat much of that shot earlier. With modern multiple fold seismic it may be possible to identify a seismic event originating from the top of the Latrobe Group.

APPENDIX 1

SPECIFICATIONS OF DRILLING PLANT

DRAWWORKS

Ideal type 50 with 16" x 34" spooling drum (1-1/8" lebus grooved) and 14" x 36" 9/16" Sandline drum with foster 24AD and 37AH Catheads and Parkersburg 36" single type R Hydromatic Brake.

MUD PUMPS

National K380. 7%" x 14" powered by GM16V Series 71 engine with K 10 pulsation dampener. Ideco MM700 7%" x 14" with K20 pulsation dampener and powered from compound 71 twin engines. (The Ideco MM700 was used as the No. 1 pump; the National K380 was used as the No. 2 pump.)

MIXING PUMP

Mission 5 \times 6 Centrifugal pump powered by GM371 diesel engine.

MANIFOLD

Complete Manifold system for circulating mud and water.

ENGINES (DRAWWORKS)

2 GM12107 Series 71 twins with GM torque converters.

DRIVE GROUP

Ideal "BL Modified" 2 engine with #2 having pump countershaft drive (18" PD 10D Sheave).

MAST

131' Lee C. Moore Standard Canti-Lever equivalent to API Derrick capacity of 550,000 lbs. Racking capacity 12420' 45" drill pipe.

SUBSTRUCTURE - MAST

Lee C. Moore 10' high x 20' 9" wide x 31' long.

SUBSTRUCTURE-ENGINE

Lee C. Moore 10' high x 20' 9" wide x 11' 9" long.

INSTRUMENTATION

Martin Decker Type D Weight Indicator with 0/3000 lbs. mud pump gauge. Martin Decker tong torque gauge. Geolograph G3 Recorder.

KELLY COCK

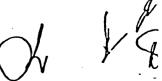
1 Omsco unit with 6-5/8" LH Box up x 6-5/8" LH pin down.

DE-SANDER

Cyclone unit with 3 x 6" and 2" x 8" cones and mission 5 x 6 centrifugal pump powered by GM371 engine.

DEVIATION INSTRUMENT

Sure Shot 00 - 70 unit



1-12 3000 psi WP Cameron "SS" Double gate with C.S.O. & 45" Rams. 1-12 3000 psi WP Hydril

1-KBO Hydril Accumulator with 2 Nitrogen Bottle emergency closing system 1-Set BOP Hoses and steel lines (latter installed in walkways)

DRILL PIPE

6000' - 45" OD x 16.60 lb/ft grade E Range 2 with 45" FH connections. 6 Joints - 45" Hevi-Wate

DRILL COLLARS

6-8" OD x 30' with 6-5/8" regular connections. 18-64" OD x 30' with 44" IF connections.

CHOKE MANIFOLD

1-5000 psi dual choke unit

ROTARY TABLE

Ideal type 20%" complete with master bushing

TRAVELLING BLOCK AND HOOK

National 436 'E' 140 rated capacity 140 tons.

CROWN BLOCK

Lee C. Moore with 5 \times 42" OD and 1 \times 56" OD sheaves

SWIVEL

National Ideal Type 'D'

GENERATORS, COMPRESSORS AND CIRCULATING PUMP (Installed in Generator House)

- 2 Delco-GM 92.5 KVA generators powered by GM671 engines.
- 2 Ingersoll Rand air compressors.
- 2 Southern xll x 2" centrifugal water pump powered by electric motor.

SHALE SHAKER

2 Link belt type NRM145 model 53A.

RIG LIGHTING

Hutchinson "Flo-Light" flame-proof complete for National 50 rig and Lee C. Moore Mas

MUD TANKS

2 Mild Steel with walk partitions and guns - each 30' x 8' x 6' high.

WATER .TANKS

2 mild steel each 30' x 8' x 6' high.

PIPE RACKS AND WALK

90 ft Tumble type pipe racks complete with steel decked walk.

FISHING TOOLS

1 set Bowen or McCullough Mechanical Hydraulic Jars. Overshot to catch Drill Pipe and 64" Drill Collars Overshot to catch 8" Drill Collars.

SPOOLS

As required to cross over between Contractors BOP's and Operators Casing Box 1.



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1 Dog House 14' x B'
 1 Cenerator shed 24' x 8'
 1 Utility Shed 27' x 8'
 1 Spares/Tool shed 26' x 8'
 MUD TESTING EQUIPMENT.
 Magcobar rig laboratory
 WELDING EQUIPMENT
   Jxy/acctylene set
 1 H6 Lincoln electric set
 CASING AND DRILL PIPE HANDLING TOOLS:
 1 set (2) Tongs with jaw range 3½" - 13-3/8"
2 Sets 4½" drill pipe slips
1 Set 5½" - 7" drill collar slips
1 Set 6-3/4" - 8½" drill collar slips
1 Set 7" Casing Slips
1 Set 9-5/8" Casing Slips
1 Set 13-3/8" Casing Slips
1 Set CR drill collar safety clamps
2 Sets 4½" Drill pipe Elevators
1 Set 7" Casing Elevators (single joint)
1 Set 7" Casing Elevators (running)
1 Set 9-5/8" Single Joint Casing Elevator
1 Set 9-5/8" Casing Elevator (running)
1 13-3/8" Single Joint Casing Elevator
1 13-3/8" Casing Elevator (running)
1 Sct each 2-7/8" Tubing Elevators & Slips
ELEVATOR LINKS
1 Set 24" x 72" 110 ton capacity
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Set 2-3/4" x 84" 150 ton capacity

SUBSTITUTES

All necessary lifting, crossover and bit substitutes for 44" drill pipe; 6" & 8" drill collars, and drill collars to other down hole tools furnished by Contractor with National 50 rig.

KELLY AND KELLY DRIVE

1 44" Square Kelly with 6-5/8" LH Box Up 1 Baash Ross 2RBS6 Kelly Drive

JUNK BOX

Skid Mounted 14' x 8' x 4'

RATHOLE DRILLER

Unit Rig digger with drive for 44" square kelly.

MUD SAVER

"OKEH" mud saver bucket for 44" drill pipe.

TTING

Hardwood matting for National 50 Sub-base and pump area.

DAY TANK

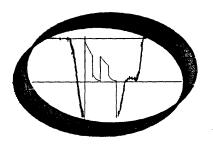
1 - 2000 gallon diesel day tank

FIRE EXTINGUISHERS

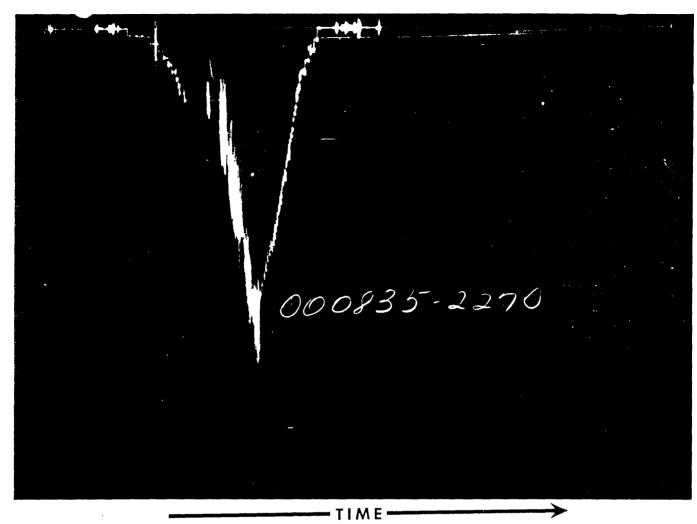
APPENDIX 2

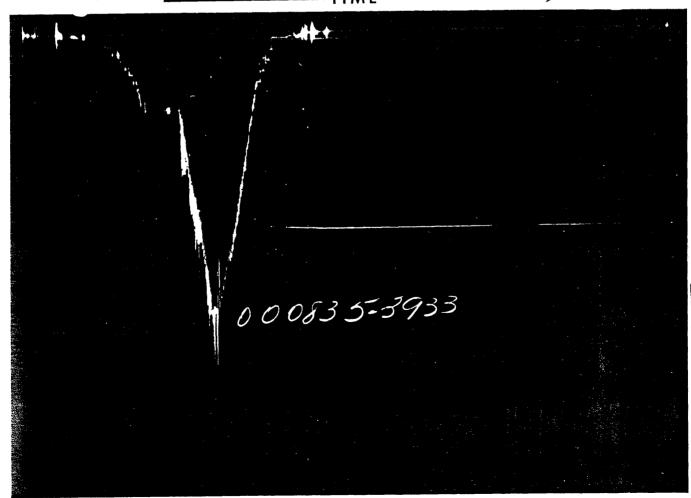
HALLIBURTON TEST CHARTS

Formation Testing Service Report



HALLIBURTON SERVICES





Each Horizontal Line Equal to 1000 p.s.i.

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Sampler Pressure_		P.S.I.G	. at Surface	Kind	ODEN HOLE	Hallibur			wp.	
Recovery: Cu. Ft.	Gas			of D.S.T.	OPEN HOLE	Location	AUSTRA	VL I A	25	
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1			i	Net Produc	tive Interval	-		Ft.	1	
Recovery Water		°F			Measured From	20141			1	
Recovery Mud		°F		· ·		3614' 8 1/2"	 	Ft.	1	
Recovery Mud Fil		°F	1		Cosmig Direction	432.88 ¹ I.D	2 375"		1	
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FORM 181-R2 - PRINTED IN U.S.A.

FORMATION TEST DATA

LITTLE'S 111033 75C 2/80

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Casing per	fs		Botton	n choke		Surf. temp*F Ticket No000835
Gas gravity	/		Oil gro	vity		GOR
Spec. gravi	ty		Chloric	des	PP	GOR
INDICATE	TYPE .	AND SIZI	OF GAS MEA	SURING DEVICE U	JSED	
Date Time	a.m. p.m.	Choke Size	Surface Pressure psi	Gas Rate MCF	Liquid Rate BPD	Remarks
4:00						Run in hole with tools, bridge at
						3434'. Pulled out of hole.
12:00						Out of hole.
			37 37 52 53 5 5 5 5 5 5 5			
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FORM 182-R1-PRINTED IN U.S.A

PRODUCTION TEST DATA

LITTLE'S 96672 5M 8/74

000835 I. D. LENGTH DEPTH Drill Pipe or Tubing Drill Collars 2.25" 6.25" Reversing Sub Water Cushion Valve 3.826" Drill Pipe 432.88 Drill Collars Handling Sub & Choke Assembly Dual CIP Valve Dual CIP Sampler Hydro-Spring Tester 5' Extension joint 84.62' 6.125" 2.375 v <u>5</u>' <u>.</u>87" Extension Joint 3.06" 4' _5" 51 1.75' Hydraulic Jar 2.9' VR Safety Joint Pressure Equalizing Crossover 6' 7.75" 1.62" 1.65 1.62" 6' Flush Joint Anchor Pressure Equalizing Tube Blanked-Off B.T. Running Case _ Drill Collars Anchor Pipe Safety Joint Anchor Pipe Safety Joint 5" 2.25 Side Wall Anchor Drill Collars <u>2.</u>37" 25' 2.44 " Total Depth

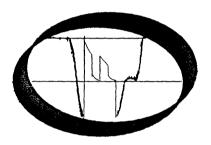
TICKLI NU.

NOMENCLATURE

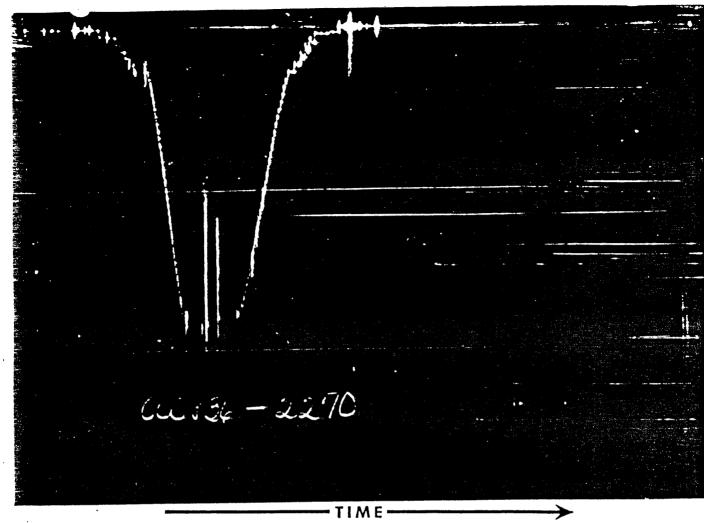
b	=	Approximate Radius of Investigation Feet	
b ₁	=	Approximate Radius of Investigation (Net Pay Zone hi) Feet	
D.R	.=	Damage Ratio	
Εĺ	=	ElevationFeet	
GD	=	B.T. Gauge Depth (From Surface Reference) Feet	
h	=	Interval TestedFeet	
h,	=	Net Pay Thickness	
K	=	Permeabilitymd	
K,	=	Permeability (From Net Pay Zone hı)md	
m	=	Slope Extrapolated Pressure Plot (Psi²/cycle Gas) psi/cyc	le
OF,	=	Maximum Indicated Flow RateMCF/D	
OF ₂	=	Minimum Indicated Flow RateMCF/D	
OF ₃	=	Theoretical Open Flow Potential with/Damage Removed Max MCF/D	
OF₄	=	Theoretical Open Flow Potential with/Damage Removed Min MCF/D	
P _s	=	Extrapolated Static PressurePsig.	
P _F	=	Final Flow Pressure	
P .,	=	Potentiometric Surface (Fresh Water*)Feet	
Q	=	Average Adjusted Production Rate During Test bbls/de	зy
Q۱	=	Theoretical Production w/Damage Removedbbls/da	зy
Q,	=	Measured Gas Production Rate	
R	=	Corrected Recoverybbls	
r "	=	Radius of Well Bore	
t	=	Flow Time	5
t.	=	Total Flow Time	5
T	=	Temperature Rankine°R	
Z	=	Compressibility Factor	
'n	=	Viscosity Gas or LiquidCP	
Log	=	Common Log	

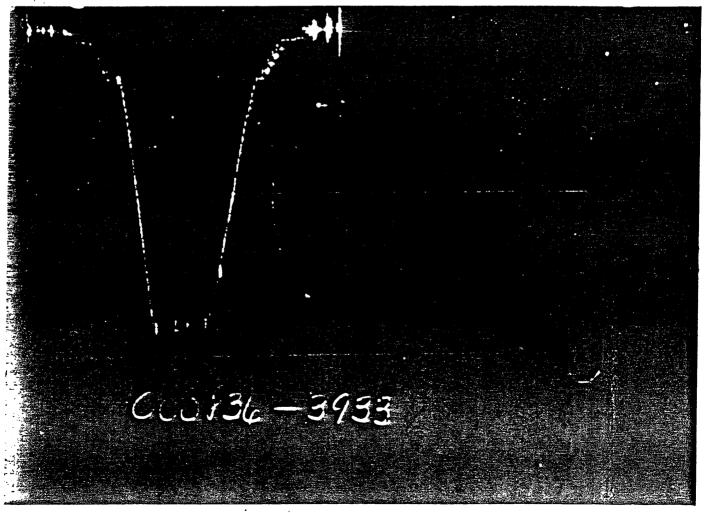
^{*} Potentiometric Surface Reference to Rotary Table When Elevation Not Given, Fresh Water Corrected to 100 $^{\circ}$ F.

Formation Testing Service Report



HALLIBURTON SERVICES





Each Horizontal Line Equal to 1000 p.s.i.

FLU	ID SAME	LE DAT	A	Date	7-10-80	Ticket Numbe	er 0008	336	Legal Sec	
Sampler Pressure		P.S.1.0	5. at Surface	Kind		Hallibu	ırton		Location Twp Rr	
Recovery: Cu. F				of D.S.T.	OPEN HOLE	Locatio	n AUST	TRALIA	- Right	
cc. O				Tester]	MR. LARKIN	S Witnes	. MD	DANIVIN	Ģ	L LA
cc. W		·		Drilling	IV. FUIVIN	vvitnes	o rin.	RANKIN	-	EAST Lease
7				Contractor (D. D. & E.	DRILLING C	OMPANY R	RIG #12		SEACUMBE Name
Gravity		_° API @	°F.			IT & HOL	E DAT	A bj]	AC.
Gas/Oil Ratio			_cu. ft./bbl.	Formation Te		Giffard 17'			-	J.W.E
	RES	ISTIVITY CH	HLORIDE ONTENT	Elevation Net Productiv		25'		Ft.		
Recovery Water		@ °F	ppm		easured From	Kelly Bush	ing	Ft.		
Recovery Mud		@ °F		Total Depth_		3614'		Ft.		
Recovery Mud F		@ °F		Main Hole/C	asing Size	8.5"			.	
Mud Pit Sample		@ °F		Drill Collar L	-	433.00' i.c 3019' i.c				. €
Mud Pit Sample	Filtrate	@ °F	ppm	Drill Pipe Le Packer Depth		3019' i.c	3.82 3580	\ I		Well No.
Mud Weight	9.	7 vis	36 sec.	Depth Tester		3459'		Ft. Ft.	1	
TYPE	AMOUNT	·	Depth Back		Surface	Bc Bc	ottom		1	,
Cushion		Ft.	Pres. Valve		Choke	1/2" c	hoke 3/4"	·	-	급
Recovered	630 Fee	_{et of} mud							≥₽	Test No.
								——— ≱ eo.	Field Area	
Recovered	Fee	et of								
. .	_									
Recovered	Fee	et of				· · · · · · · · · · · · · · · · · · ·		ester	WILDCAT	
Recovered	Fee	et of						Tester Valv	ÄŢ	
								<u> </u>		
Recovered	Fee	et of		· · · · · · · · · · · · · · · · · · ·	·					귀샹
Remarks	MISRUN	NO PACKER S	SFAT				•			3580 to
remarks		HO I MONLIN .	JENIO		· · · · · · · · · · · · · · · · · · ·				-	l at t
										to
			-							3614
 										4
L									County	
	*************************								1	
	16	0070		0000						
TEMPERATURE		2270	Gauge No.	3933	Gauge No.			IME		1
		3554	Depth:	3610' 24 Hour Clo	Ft. Depth:	Ft.		:4:00 hrs.)		B
Est. 130 _{°F.}	Blanked Off		Blanked Off		Blanked Off	Hour Clock	Tool Opened (0825		BEACH
		······································		<u>-: </u>	2.0		Opened			1
Actual °F.	Pres	sures	Pre	ssures	Pre	essures	- / P	0826		PETROLEUM Lease Owner/Company Name
Initial Liverses	Field	Office	Field 1818	Office	Field	Office	Reported	Computed		FRO FRO
Initial Hydrostatic	1785	1791.1	1010	1820.3			Minutes	Minutes		
Flow Final				 					State	¥ner S
Closed in				†						/Cor
Flow Initial										npar
Final									[일]	Z YE
Closed in									VICTORIA	ome
Flow Final									A	
Closed in										
Final Hydrostatic	_	1791.1	-	1820.3						
									1	

Casina nerfs		Bottom	n choke	S	urf. temp•F Ticket No000836
Spec. gravity		Chloric	des	ppn	n Res
INDICATE TYPE	AND SIZE	E OF GAS MEA	SURING DEVICE U	SED	
Date Time a.m. p.m.	Choke Size	Surface Pressure psi	Gas Rate MCF	Liquid Rate BPD	Remarks
7-10-80					
0515	3/4"				Tools ran in hole.
0825	3/4"				Opened tool. Lost packer seat.
					Closed tool.
0840	3/4"				Reset packer-opened tool-lost packer
					seat-pulled free. Pulled out of hole.
			•		
					·
· · · · · · · · · · · · · · · · · · ·					

HCKET NO. 000000

M		O. D.	I.D	LENGTH	DEPTH
	Drill Pipe or Tubing				
Щ	Drill Collars	6,25"	2.25"	1.00'	1
H	Reversing Sub				
	Drill Pipe	4.50"	3.826"	3019'	
	Drill Collars	6.125"	2.375"	433'	
\mathbb{H}	Handling Sub & Choke Assembly Dual CIP Valve	•	****		
	Dual CIP Sampler				
	Hydro-Spring Tester EXTENSION JOINT	5.00" 5.00"	.75"	6.37'	3459'
•	Multiple CIR Sampler DRILL COLLAR		2.37"	84.62'	
Ш					
	Extension Joint	5.00"	.87"	<u>5.00'</u>	
	AP Running Case	5.00"	3.06"	4.00'	<u>3554'</u>
	Hydraulic Jar	5.00"	1.75"	5.00'	
	VR Safety Joint	5.00"	1.00"	2.90'	
10	Pressure Equalizing Crossover				
	Packer Assembly	7.75"	1.62"	6.00'	3572'
·	Distributor	5.00"	1.68"	2.00'	
	Packer Assembly	7.75"	1.62"	6.00'	3580'
	Flush Joint Anchor				
	Blanked-Off B.T. Running Case		-	***************************************	
	Drill Collars		***************************************		
v	Anchor Pipe Safety Joint				
H					
	Packer Assembly		***************************************	***************************************	
H	Distributor		***************************************		
	Packer Assembly				
	Anchor Pipe Safety Joint	5.00"	2.25"	4.00	
V	Side Wall Anchor				
具					
	Drill Collars				
	Flush Joint Anchor	5.00"	2.37"	25'	
	Blanked-Off B.T. Running Case	5.00"	2.44"	4.00'	3610'
	Total Depth				3614'

NOMENCLATURE

b	= Approximate Radius of Investigation	eet
\mathbf{b}_1	= Approximate Radius of Investigation (Net Pay Zone hi)	eet
D.R	.== Damage Ratio	
Εl	= ElevationF	eet
GD	== B.T. Gauge Depth (From Surface Reference)	eet
h	= Interval TestedF	eet
h,	= Net Pay ThicknessF	eet
K	= Permeability	nd
K,	= Permeability (From Net Pay Zone hı)	nd
m	= Slope Extrapolated Pressure Plot (Psi²/cycle Gas)p	si/cycle
OF,	= Maximum Indicated Flow Rate	/ACF/D
OF ₂	= Minimum Indicated Flow Rate	ACF/D
OF ₃	= Theoretical Open Flow Potential with/Damage Removed Max N	ACF/D
OF ₄	= Theoretical Open Flow Potential with/Damage Removed Min N	ACF/D
P _s	= Extrapolated Static PressureP	sig.
P _F	= Final Flow PressureP	sig.
P or	= Potentiometric Surface (Fresh Water*)F	eet
Q	= Average Adjusted Production Rate During Testb	bls/day
Q۱	= Theoretical Production w/Damage Removed	bls/day
Q ₉	= Measured Gas Production Rate	1CF/D
R	= Corrected Recoveryb	bls
r "	= Radius of Well BoreFo	eet
t	= Flow Time	linutes
t.	= Total Flow Time	linutes
T	= Temperature Rankine°I	R
Z	= Compressibility Factor	
μ	= Viscosity Gas or Liquid	P
Log	= Common Log	

^{*} Potentiometric Surface Reference to Rotary Table When Elevation Not Given, Fresh Water Corrected to 100° F.

APPENDIX 3

VELOCITY SURVEY RESULTS

WELL VELOCITY SURVEY

EAST SEACOMBE NO. 1

PEP 94

VICTORIA

for

BEACH PETROLEUM NO LIABILITY

by

VELOCITY DATA PTY. LTD.

Brisbane, Australia

July 14, 1980

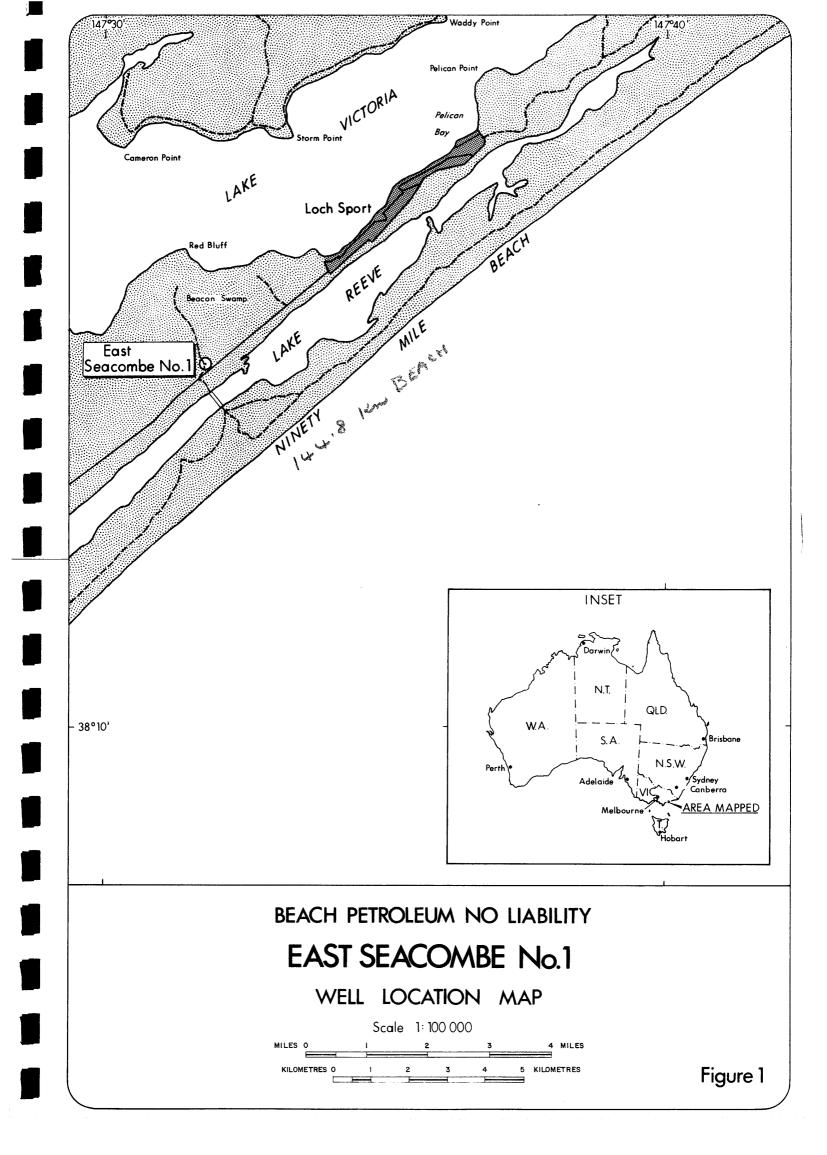
INDEX

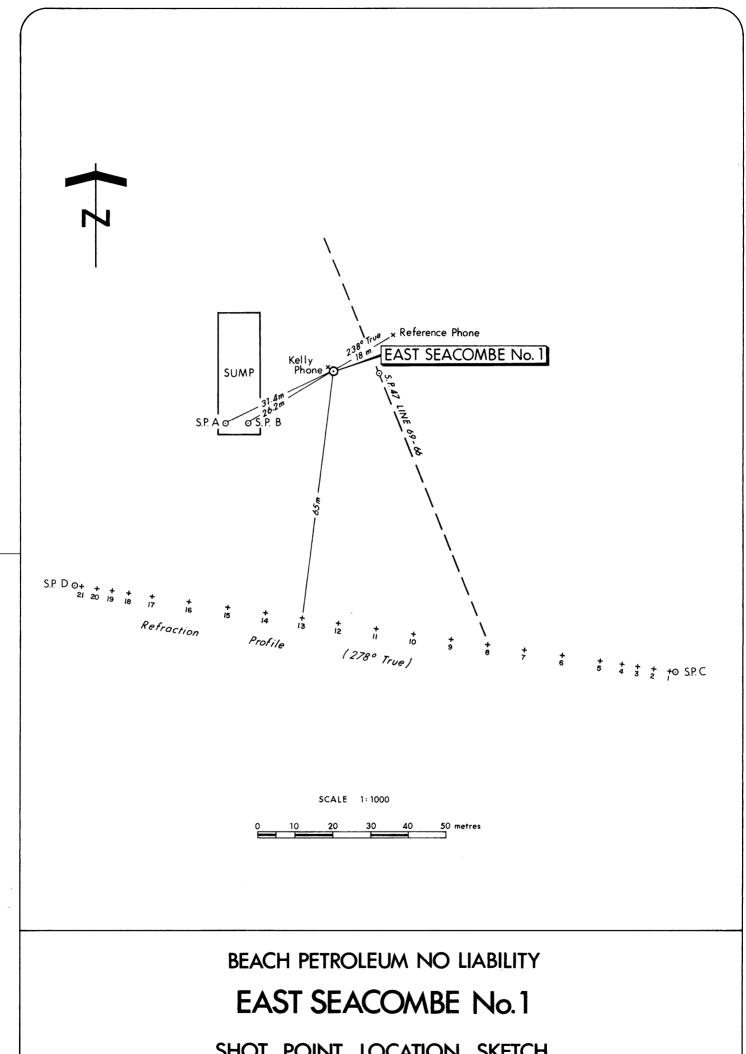
	Page
SUMMARY	1
GENERAL COMMENTS	1
EQUIPMENT	2
RECORDING	2
COMPUTATIONS	3
COMPUTATION SHEETS	

Figures:

Figure 1	Location Map
Figure 2	Shor Location Sketch
Figure 3	Time-depth points and velocity functions
Figure 4	Time-depth, average velocity and interval velocity curves
Figure 5	Shallow Refraction Profiles
	Sample Records

Sample Records





SHOT POINT LOCATION SKETCH

Figure 2

SUMMARY

Velocity Data Pty. Ltd. conducted a velocity survey for Beach Petroleum No Liability in the East Seacombe No. 1 well, PEP94, Victoria. The date of the survey was July 14, 1980.

Twenty-six shots were taken over twenty-two levels in the well. Record quality was fair to good and the results are considered to be reliable. Two short surface spreads were shot to obtain near surface velocity information.

Explosives were used as an energy source, with charges varying between 1/2 and 6 sticks of A.N.60. Shots were taken in the mud pit at a depth of 6 feet.

The survey was used to calibrate sonic logs. A calculated depth function of $\Xi = 8831t^{1.167}$ is a fair fit to the time-depth curve.

The well was surveyed to a depth of 4465 feet below kelly bushing.

GENERAL

Velocity Data Pty. Ltd. of Brisbane, Australia, conducted a velocity survey for Beach Petroleum No Liability on July 14, 1980. Two men and the equipment travelled by commercial airline.

Name of Well : East Seacombe No. 1

Location : PEP94, Victoria

Co-ordinates : Lat. 38°05'00"S. Long. 147°31'57"E.

Date of Survey : July 14, 1980

Elevation of K.B. : 17 feet A.S.L.

Logging : Go-International

Weather : Fine

Sonic Log Interval: 154' to 4467' below K.B.

Depth Surveyed : 4465' below K.B.

Operator : H. Hunt

EQUIPMENT

Energy Source : Dynamite, A.N.60

Recording Instruments : S.I.E. RS4

Downhole Geophone : Geospace 1000 Wall-Lock

Reference Geophone : Hall Sears HSl

RECORDING

Charge Size : 1/2 to 6 sticks A.N.60

Depth of shots : 6 feet

Shot offset : 103 feet

Reference sensors : Refer Figure 2.

Downhole sensor:

6 HSl 4.5 Hz-215 ohm, high temperature detectors in series parallel. Frequency response 8-300Hz within 3db.

Preamplifier -48db fixed gain. Frequency response 5-200Hz within 3db.

Record Traces:

- 1 Well Geophone high gain
- 2 Well Geophone medium gain
- 3 Well Geophone low gain
- 4 Reference phone Well Head
- 5 Reference phone
- 6 Not used
- 7 Time Break

Records were produced photographically.

COMPUTING

Sonic times are adjusted to check-shot times using two methods.

1) A linear correction

$$\frac{(t_{L_2} - t_{R_2}) - (t_{L_1} - t_{R_1})}{z_2 - z_1} = \frac{\text{correction in}}{\mu \text{secs/ft.}}$$

11) A differential correction

100
$$\left(1 - \frac{\left(t_{R_2} - t_{R_1}\right)}{\left(t_{L_2} - t_{L_1}\right)}\right) = % decrease in interval time$$

where t_{T} = sonic log time

t_R = record time

and $Z_2 - Z_1 = depth interval$

Where check-shot interval times are longer than corresponding sonic interval times, errors are assumed to be instrumental and are adjusted using the linear correction. However, if formation characteristics, such as high porosity or the presence of gas are suspected, the differential correction is used.

The differential correction is also applied where check-shot interval times are shorter than corresponding sonic times and these differences are assumed to arise from caving or mud cake effects.

Since shots were taken at sea level, there is no correction to datum.

Shallow refraction profiles about 65 metres south of the well (refer Figure 2) indicate a weathering of about 1.75 metres on the western end and 7 metres on the eastern end of the profiles. Weathering velocities are about 1640 feet per second and the sub-weathering velocities average 5543 feet per second. The offset in times apparent on the shots from the eastern end of the profiles does not appear to have any geological significance, but is possibly the result of hole fatigue or cable layout problems.

Discrepancies between shot interval times and corresponding sonic interval times are moderate, with the shot interval times generally being longer in that section above the top of the Thick Coal. An exception to this is the interval 3140 to 3533 feet where the shot interval times are shorter than the corresponding sonic interval times. The largest time discrepancy occurs within the Gippsland Limestone over the interval 712 to 1000 feet, the difference here being 23.9 µsecs./ft.

A calculated depth function of $\Xi = 8831t^{1} \cdot ^{167}$ is a fair fit to the time-depth curve, the largest deviations occurring at the 2413 and 2723 foot levels.

Time-depth and velocity curves are submitted with this report along with copies of the field records.

L.W. Pfitzner

This is an enclosure indicator page. The enclosure PE904835 is enclosed within the container PE902709 at this location in this document.

The enclosure PE904835 has the following characteristics:

ITEM_BARCODE = PE904835
CONTAINER_BARCODE = PE902709

NAME = Computation Sheets

BASIN = GIPPSLAND PERMIT = PEP 94

TYPE = WELL

 $\mathtt{SUBTYPE} = \mathtt{DIAGRAM}$

DESCRIPTION = East Seacombe 1 Computation Sheets.

Appendix 3 of WCR.

REMARKS = Sheet 1 of 2.

DATE_CREATED = 14/07/80 DATE_RECEIVED = 29/10/80

 $W_NO = W733$

WELL_NAME = East Seacombe-1

CONTRACTOR =

CLIENT_OP_CO = Beach Petroleum N.L.

This is an enclosure indicator page. The enclosure PE904836 is enclosed within the container PE902709 at this location in this document.

The enclosure PE904836 has the following characteristics:

ITEM_BARCODE = PE904836
CONTAINER_BARCODE = PE902709

NAME = Computation Sheets

BASIN = GIPPSLAND PERMIT = PEP 94 TYPE = WELL

SUBTYPE = DIAGRAM

DESCRIPTION = East Seacombe 1 Computation Sheets.

Appendix 3 of WCR.

REMARKS = Sheet 2 of 2.

DATE_CREATED = 14/07/80 DATE_RECEIVED = 29/10/80

 $W_NO = W733$

WELL_NAME = East Seacombe-1

CONTRACTOR =

CLIENT_OP_CO = Beach Petroleum N.L.

This is an enclosure indicator page. The enclosure PE904837 is enclosed within the container PE902709 at this location in this document.

The enclosure PE904837 has the following characteristics:

ITEM_BARCODE = PE904837
CONTAINER_BARCODE = PE902709

NAME = Time-Depth points & Velocity Function

BASIN = GIPPSLAND PERMIT = PEP 94 TYPE = WELL

SUBTYPE = VELOCITY_CHART

DESCRIPTION = East Seacombe 1 Time-Depth Points &

Velocity Function. Figure 3 of Appendix

3 of WCR.

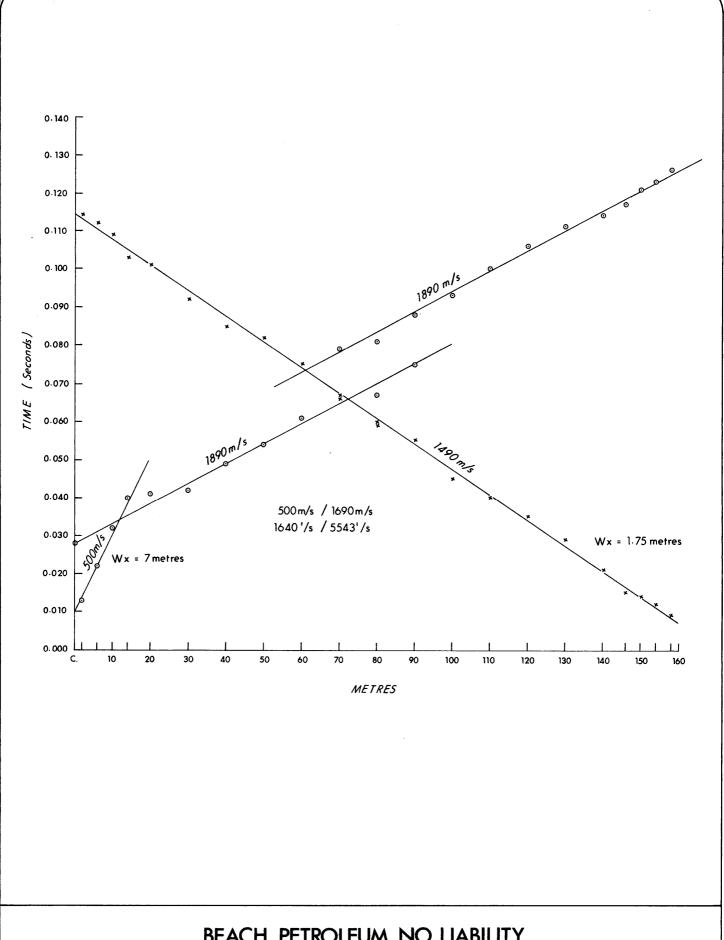
REMARKS =

DATE_CREATED = 14/07/80 DATE_RECEIVED = 29/10/80

 $W_NO = W733$

WELL_NAME = East Seacombe-1

CONTRACTOR = Velocity Data Pty. Ltd.
CLIENT_OP_CO = Beach Petroleum N.L.



BEACH PETROLEUM NO LIABILITY EAST SEACOMBE No. 1

REFRACTION PROFILES

Figure 5

SAMPLE	ii N≃ b	ALE 3	EN1	A ST	HER	SAMPLE DESCRIPTION FOR SOME DESCRIPTION
			3	8	5	Cast seacombe Nill I.J.L. / V.D.
30-80'	(00),					Sandstone: while to dark brown, loosely consolidated, very fine grained
						pebble grainsize, simminded, poorly sorted, mainly quartzose, Minor
		N ,				Midstone, black carbonaceousgood visual poorosity
60-90'	10/.		•		90/.	Sandstone: clear to white to light tan, loosely consolidated, very fine grained
						coarse grained, subrounded, well sorted, mainly quartzase, some minor grains
Bea						are iron stained
	\perp					Mudstone light brown, very soft, sticky, hydratable
90-120'	20%					Sandstone: As above, with minor calcile material
						Mudatone: Az above
					40	Siltatone: light brown, unconsolidated. Similar to atmystone above but
•.		***			1	silfsize grains
20-150	tor.		(구 한			Sand one: As above
					<u>Jo/</u>	Muddy Siltstone: , grey, soft to firm, with abundant fossil fragments (mainly bivalva u
						common gastrapods, and echinoid spines)
			•		1	Mudstone: As above
150-180	à	. –	: "		71	Mudstone: black, firm-soft, carbonaceous
		2				Sandstone: As above, predominally very coare grained.
80-210	101				90	Mudstone: light brown, very soft, sticky
		}				Sandstone: As above
						Mudstone: (fr) As above
10-240			l			As for 180-210'
40-210	4	·			KCZ,	Mudstone: light brown, very soft stiday
				ara J		Sandstone: As above

SAVELE	4	PERC	EN	TAG!		SAMPLE DESCRIPTION COLORS
SAMPLE	-,1		3	8	5	
210-	095/				•	Sandstone: Clear to white, locally consolidated, angular to rounded, medium to coarse
			•			well sorted, quarte oce, minor grey green lithic grains. Good usual porceity
				(4) att	डी.	Mudstone A: black, firm - sott, corbonaceous, coaly
300-330						As for 210-300'
330-36	j 60%.	·	*		2 <u>0</u>	Mudstone B: light grey, firm, matrix slightly concarrows, with small white
						quarte grains
~	,					Mudstoned: As above
	11.	-			• 1	Sandstone As above
360-390	50					
300 3,0	1	, .:				Silty Mudstone: light grey, soft, abundent fossil fagments (echinoid spins, forans
					ΛĊ	bivalues, calcite fragments.) (becoming marly)
	-				74.	Sandstoire i clear, white to light brown, Loosely consolidated, subanquar
						to rounded, coarse 18 very coarse moderate sorting,
			<u>.</u>		IOX	Mudstone A: as above
390-420			÷		90/	Mart: 19t gry to gry, soft, abundent fossil frage. Similar to silty mud, but
						Mart: 19t gry to gry, soft, abundant fossil frage. Similar to silly mud, but marty. (Fossils inc. echnois spinest plate, nowalves, turrelella, smashed shells as calcite fra
	4					Sandstone: As above (predominatly angular)
	. : .	*			10'1	Midstone A: As above.
420-450						Marl: As above
	*				- 1	Candatone Asabore.
450-480					[Marl: As above (foss, lags, dom calcite pieces. Pido broken lge shells)
	4					
_						Sandstone: Clear to milky dom milky loose, vfg-vcg dom cg, rounded
						Hudstone A A/A
			\dashv	\dashv	+	

	۲	ENU	ENI	A G E	œ	WELL NAME GEOLOGIST (A.
SAMPLE	\$ 2	-	3		5	3411112
480-	Ę.			10	<u> </u>	Lignite: black firm, fibrous, plant material evident miner pyritization. (equiv to prev blace
		·	•			midst) (lun stringer)
\$	۰, دسه				85.	Marl: gry-tick grey, soft abundant fossils, fossil fragments. Fossils are
*						well preserved: quiet enu dep.
	2					Sandistone: A/A, grains up to pebble (possible cavings)
510-540				·	CP	Marl: A/A.
la de						Mudstone: A/A
	4					Sandstone: A/A.
540-570					83	Marl: A/A. becoming darker grey, wealty cale
	50					Santstone: Clear, milky to orange, dom milky, vfg to vcg
-	,,,					dom cg. subang to rounded dom subround, moderatly well sorted,
	•					some 1000 stained grains
-		\neg				Purile: nodules
570-600		50	\dashv		14	Lignile: A/A.
570-600		-				Marl: A/A but quite silty, only slightly rate (649 130 der)
	-	\dashv				Pyrite: nodules
· ·	<i>₩</i>	_	_			Sandstone: A/A.
	-1	0			, ,	Mudebone: A/A smaller rounded grains
200-630	10					Sandstone B: While to grey, firm-hard, fg, subangular, moderate sorting,
	_	4	\dashv			quarteose, calcareous matrix, cemented
	10	_	_			Sandstone: A/A: dom iron stained
					80	Marl: A/A back to mud grainsize, weakly cate.
				t	1	MISC O

SAMPLE		PERC	EAU I	AGF ا		SAMPLE SAMPLE SAMPLES
SAMPLE	88	H H	3	8	25.7	SAMPLE DESCRIPTION
80-08	pla.		Accorde	e a series	Arte and a second secon	Sandstone: clear-milky-yellow, loose, fg to vc; dom coarse,
	f			10 to	7-14 E-1	solo and to round, dom solond, mod sort
	40	14.5			X WAY	Calcarchite: Wh-gy, fim-hid, fg, subang, mod sort, quartzosa, calc matrix, cenert
	- on	sà.	8.5		40	Head gry-alkgry, soft, contains for frage, hydratable, silly, moderate
1			. Q.	i de	Wir.	calcanous content
			£ .*.	ā.	1, 111. 4, 17. 1, 18.	Lignite: black, fine grains. Minor pyritization
			, 1944 - 1944	31.	4	Pyrite noduless:
	3		· .	2	90	
	3		-	<i>y</i>	,	elementes volume in sieve before westing repersoner
160-90						01-1
	†		·			
	+-			<i>.</i>		about maro micro for to woody ligatic met. The py nod SI Cale mix
102 70	-					CIPPEIANO?
590-720	<u>'</u>		100			calcisitate like grey mits of shit my g/2 gras . whill freys no of
	-			-		cale mity from ? br glave & Dr mefic mins top pob Willia your (gradat)
720-750			60	-		cabie ullele gradera de calciarente elerurise ava. glave to positive tite:
						no f/c (grainstone)
752-782			100			as Love
0.8-08			80			as for 720-750
810-840		·				as for 720-750
840-210			100			
370-900			110		•	as above (~3/42 girins) lian graintine
mo - 93.			og.	: .		becomens skeletal loved will only very musor letters mires 2° calcute
130-960		1	100			Imadona! Ist and All acces
						Limestone: lot gry, mad had, skeletal, some mord, grain supported, much provide
	1				[

	- P		NT#			THE STATE OF THE S
SAMPLE	188	SHALE		OTHE	SAMPLE DESCRIPTION	Will 5
960-00		la			Limestone: latgry-wht, firm, skeletal grainston	
					grante, dom vog. Fossils include shell frage bri	12000 rold la promodition de
		4			Calcarenile: Igt gry, modhod, matrix vfg qtz grains	Jah, raide preces egynoral spines
			1		dick gens as access.	. Ly gr minor
970-80				١.	A/A	
980-90				. .	A/A.	
990-100)	6	0		Limestone: A/A.	
		3	3		Calcarenite: A/A.	
	21.				Quartz: Yellow-bin, dom vcg, sub ang - subrind,	danielai
·.					discrete iron started	dom subana, line singlet
1000-10					A/A	
100-20					AA.	· · · · · · · · · · · · · · · · · · ·
1020-30		. 10			Limestone A/A.	
		30	,		Calcarenile AA	
					(quartz abs).	
1030-40					A/A	
1040-50					A/A.	
1050-60		40			Limestone: A/A	
		6				10mm coming up.)
1	~				Quarte: Orng-clear, Subang-rnd, dom subrind, in	
			1.	 	Eins singled discrete, some non storned	inter-red my 2 man sound.
1060-70	:				A/A Role Discher	
1080-80			T		A/A u	
1080-1090			T	·	A/A ~ ~	•

SAMPLE	15 F	'ERC	CENT	AGE 8	OTHER	SAMPLE DESCRIPTION WELL NAME GEOLOGIS!
			40			Limestone: let gry-wht, from skeletal grainst Fore frage inc Bryzoan (some bla
	+		60			Colcarente: let gry, or khrd., matrix vfg qtz. Acces Let grn lithics, minor ark
ik.				•		lithics
1100-1110			40			Limestone: A/A rar: frama quinques quinquelloculina
			8		<u> . '</u>	Calcarente: A/A
	1				<u> </u> _'	Quetz: Orng-dr, ang-rounced, dom sub rnd, med-vcg dom cg mod sorting.
·]					<u> '</u>	Corns single à discrete, some iron staired.
ast onl	4_	<u> </u>			<u> · '</u>	A/A.
140-50	4_!			_	<u>'</u>	As for 1110-1120
1150-60	1				'	y ~ ~ ~ ·
1160-70_					'	h n h h
1170-80	11				<u> '</u>	the transfer of the transfer o
1180-90	1		70			Calcarenile: A/A
	1		30			Linestone: A/A
1190-1200	_	Ш			<u> </u>	As for 1180-90
1200-10					<u> '</u>	As for 1180-90
1210-20		╂──╂	松		3 5	Calcilentile: drk gry, firm-stt, andrix clay size grains, possible quartz
		1	10	Ш	<u> </u>	Limestone: A/A
	1	1	55	Ш	<u> </u>	Calcarenite: A/A.
1220-30	4			Ш	_	As for 1210-20
1230-40						
				Ш	1	<u> </u>
1	1 '	1	1 1	1 1	1	

MISC

- CINCERTAGE	WELL NAME GEOLOGIST PAC
24 PLE 8 P P P	SAMILE DESCRIPTION ES.NOT PL/JP 7
124000 101	Limestone: lettery-wht, from, skeletal granst. Foss fage me bryzoan,
	echinoid spines, shell frags, chlick chips Calcarente: Igt gry Vhrd matrix vfg, Acces gt grn, Hark lithurs, visable upo
50	Calcarente: lot any whood making upo Acces lat any Harle little - while was
	deolution
1 40%	Calcileutile dre gry, firm oft, matrix day size grams possibly quarte
1250-60	As Above
1260-70	и ч
1270-80)	
90	limentone skaletal loved granding to care twitte when frago designed, time mud pollato, actions
-1300	ou my sa gtz gros clear spener, alst frags cont, forams.
	10% dolomile mtx
1300-133,	limedon an (70-00) lot fell gray microx des efter c. cos
1373-50	loved becoming programich calcilatite.
1350-80	
1380 -1410	
1412- 20	trend of graduel increase in any fector cemain similar.
1420-1450	in part grading to v cale mart.
	loud ac mad gradery to mand, who are are it influent the just.
1490-140	linest becoming more shelital
1510-40	and as
1545-60	Ind an wind then inteless of mark over ede
560-70	land of more could
1570-1603	lout gracuit , calcitation stability it glance colacement first du
1600-20/20	lind as
	11/3C

SAMPLE	188	SHA!		E E		AMPLE DESCRI	IPTION		Earl Leneont & 1	90 100	
1620 9.		- 1	53		lund It stongs	es cale arente	- Nelil -	cale disti	to enter related	andles a	has
1540-1660					land an	7			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	de de	-/
660-1680					low as)i sice	
1650-1700					Sout ex	-					
945 - 20					lond a	•	500.	to mand.			
730 -40					lonet an			**************************************			
742-62					londe					•	
6. 62								·			
201-1933			\top						-		
عد - دد			1								
20 - 10		1	\top			1000 0/11	relevelational	1 1	emation as al	/w	
33. 7.3				1	·	c,	unlone	1 / 20	213 20		
870-92	\top	.		1	,						
190-1910			T								
50 - 30											
30-60		1	T								
₹0 - 9>		╁	1	1							
99 - 2020	\top	\parallel		1		Look	more count				
20 -2050	\dagger		1				7 / CORD		•		
2=gs	1	12	,		but co						
D80-90		1				- becoming	(a) a a a a				
290-100	1				in w	vacoming	more marly		M		·
01-0					0-1						
710-50	+	+	+-	+-	as for 2000.	100					· · · · · · · · · · · · · · · · · · ·

SAMPLE	1 % 1 N	8	SAMPLE DESCRIPTION 124/1/2	9
2130-00	ſα	>	Limestone: consists; () Calcarente, white to lot bin, loose, skeletal. Fos	eil foot
	·		inc bilvalves, echinoid epines + plates, calcite flags, bryzoan.	
			(ii) Calcileutité let gry, v hrd, matrix vfg, a	
540-50	160		A/A.	
2150-60	100		A/A	
360-70	!∞		A/A	
2177-27	100		Acolone Comme	•
2180-90			A/1	
2190-200			· A/A	
2200-10			A/A rare forams,	
2210-20			A/A. pyrds eccur is find form in mellowed it frame	7
2220-30			A/A I and wholes	
2230-40			AA. have fight gradary to mond-gray veale, st sity (cate you) to g	i/2
2240-50			as ab becoming more middy encouring the mark stages	
2250-60	3.4		AB ABOVE ander in first interlies. Majorely of mart a	calif 16
2260-10			Holy produce from the true of glaveout	
2210-80			AIA	
220-90			A/A	
2290-300			A/A	
2300-10		24	A/A allestarios not dollinitic	
310-20		25		
1320-30			A1	
2332-42			AP tra do alort. The decement	

234 0 1 234 0 2455 - 20 2425 - 40 2425 - 40	55			limedai (calciare de - calulille - mart) lege midram dire gray from to have faum comb bryozoam, p'ezpods, gartaped, (fregs); borans. For p, ter fy, try to glacie occ the citabet of mart med from gray sitty. traces of dat. Mex en let nicro Attoline in full recipit. Populo enfl of forist fregs. In hay recorded.
2360-80 3502400 2450-20				fain comb bryozoan, pegods, gartoped, (fregs); forum. Por & the fy, try to glace oce the interest of mail med from grey, sitty. trees of del. Mex in It now Atoline in ful recipit. Porch of forist fry, his has regarded.
3 % 2400 2450-20				by try to glace one the citatest of mand med from gray sitty. there of dal. Mex in It man Attaline in fail regist. Parele with of forist frey. In han mandel.
3 % 2400 2450-20			, .	Parele of del. Mx in It nice Attaline in ful recept. Parele of forist frey: has han recept. Loud as
3 % 2400 2450-20				Parele enfet of forist pay, but has reached.
3 % 2400 2450-20		·		lout co
3% 240 2400-20		·		
				۵.
2420-40			.]	
<u> </u>				c
2440-60				
2+60-80				٠. د
2485 - 2/2:		_		1
25w - 2v				land a encoming 15-26/ mand grey willy
252 - 47				ne pyra
25+0-19				Juir with
40-60			(A)	1st ?
60-20			\(\frac{1}{2}\)	
20-90	5	50	50	efte sop must e.c. well cale lamina
_ 10		60	v	eof. gd & selletone
-20		75	25	uple 15 1- mal golery to selleline
-30	1 1	Ç> .	40	401 51/11.
-40	<u> </u>	70	32	301 c.1ht
53	'	93	. 5	st whil
		2/5	5	lout only min ; //.

SAMPLE	100	-1102			THER	DESCRIPTION DESCRIPTION OF THE PROPERTY OF THE	\overline{n}
267600	8	*	70	8	70	Mart: let gry - gry, soft, weak - mod calc But;	
					- 7.	Limest: caldisitite, lorger; - white food frags about, inc brug come, bivalves, echino.	íd
		.3				somes, foran=, gastropode, Calcialtite, gry, eft frm, some, intribed calc Aggs.	
. The				ť	2. 3	Acces purite, morelant diseminated, glascouite; up after forams	
2680-90				٠.		A/A.	
28 90-70	,		32		Įρ	Alt, marl appears less colcarous, spicules prés au foss Prage	:
2700-10						AA	i
7210-20					Va,	MA incr in prile, both wodular + discerninated	
2720-30		. 3	32		70	finester calcisille - calcinite I gray dive while your med feller shell frags , < 10/	
7			_			gtz igns, fors of the del, to py me will defil	1
)	_					Mad soft of from cale unlaw abundant sell freys ? In frays.	<u> </u>
; -			_			comment base lett lettropy is findably much will the low stringer	1:
1230-40		!	32		٧٢	ns per 20-30	1 .
2740-60		7	3		Ø :	as about	
2760 - 83		13	()		71.	as about	+
2785-28	0	39	وا		9 0	as also	+
2800 - 13	المتخد	T	35		95	as close	+
2815-75	\dashv		5		95	as also	
2835 - 40			K		85	as above	
2892-50			_		(0)	med gradery in just it very calculations sittetore, gons calculated plat	
98\$ - 67	_				In	mal au	-
7560-70			<u> </u>		/ss	mark aa	-
250-90		-	-		(<u>00</u>	- 191 919, mar soft time, mar care,	- feet
1.300					100	ds	

SAMPLE .	831	EKLE EKLE	LMST	AGE 8	OTHER	SAMPLE DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION
JEG PRO						Mart: lot gry, mod softfinn; mod calc
2900-10			<u> </u>		1	Harl: A/A
2910-20		د : :			ιœ	Harl! Ala
2020-30					œj	. NA trending to be
2930-40					w	Ala less collegreous
2940-10				·	(90)	AlA V -D calcareous == t
2950-60					8	A/A. approx 20-40%. calcareous.
2960-70						A/A-
2970-80	_/	2			·	gouding to cale substone
2980-90		y				A/A put
730-300	1	∞				Calcarous Siltstone 1 lgt gry, firm to mad had. Calc content = 101.
•						Perite inodular, and more commonly, finally disseminated, mereasing
3000-10		_				As for 2990-3000
					+~	Clausanite: vig-sit, asociated with Calcisilite wht had cemented?
3017-20					1.	As Ab
-}3						Take what lidging show him to an head little generation and call ring alone
=43						py for mess recen
50						sist of the second of the seco
-60						
~) ₀						
- కు						•
-93						
2970-320						ald it
- 25						,4

SAMPLE	331	SHALE	LMST.	OTHE	SAMPLE DESCRIPTION tout Sencombe 14 1 9PM /12	12
3120012					pled c.c.	
40-5>						
5 70		7				
70-8					1	
80-3200		•			1/16	
202 - 20					z.e	
20 - 40					4 <	
40-6					ac. : !:2~2-1-1	
.,5-7.					ca	
A - 33 - 2						
712-73					-c .	
- 42	·				· · ·	
. ()					< c	
3 -2					ac . I	
302-345					a.e	
1400-10		900		6	Calcarious sillstone, lot gry-gry, from mad had, calc cout & 20	1,-10/
			ŀ	7	Purite, common + finely disseminated, vare glowcoule.	
10-20		·			AA.	
2420-30					A/A, minior forans, le glauconite	
A30-40						tary, v.sft
\$40_50		0				
450-60		10		40	Calc. St A/A: -trousseminated pyrite with glave grown throw Calc. Mudst A/A: -trous glave cout, Alexander	
60-70		:			coli stit jeg a.c. cole - v cole	
	T					

SAMPLE .	88T.	SHAL	LMST. 2	COAL	OTHER	SAMPLE DESCRIPTION	East Seacombe 01 AN/11
3470	-			3		cale sist en 1- py	
-92							
349=-3510		·				glane & sees to line	
3510-30						cake she are a minor (35%. Ismed It cream - baff (gt.	2 gms in cale mto) no vis of y/acc py
53240						cale sist ac - last , I don't set grading from in	
35¥2-52				·	·	e 4	
50-70						ede all + found 2351. , set & avenile -ill cale come. +)	(25) Ir glene gredunt increex
•						55t 4/6-1 10W -	
70-87				slst		cale del aa glane 2 /3 . ~ c/	
3599-91	80			د2	超	randalore fore grained from - who you al-	andard glacer mtx probs. tic.ous
5591-360)	טכן				60	rundelon clear sub-1-12 gtz your	love well rolled no my
• .		<i>'</i>				good-4 vis & clear and	150 + f4/hr 2.61
3(0)-10	עכו				وعر	randel. an	
(12-20		jis†				rundel i.a.	
,12 - 30	,					sand i. c. but his became very fine - for	ne good, well is will sortis
(w	42		·		frite com uf - describ your.	
						foolably where w - 8. I had wholed	led will very had rither
3650-40)		٠			445	
3640-50	w	40				sile H brown v / g/2 will ?carb freys or ra	white I wikness but pot for ufy s
650-62-70	ίυ	40				ndel	
(io-70-3)	4	50		1		set. of sil as well to -1/ liquid boon	soft dily releases
is> -97	נטן			11		est course - & sand, well world, clear, good is of me s	de tra
							85.80

SAMPLE	188	ERC	ENT	AGE V8	OTHER	SAMPLE DESCRIPTION SAMPLE DESCRIPTION (25) Season to A 1 MM
X9> 💎						sit(i) course growt as a solo sst(2) fine growt subs-1 clear
			_			(mon fooly rooted.
3700-10				"		est (1) (2) can i legisle ac 5%; dolonite 2% brava (cloc) Libel Winfert)
				_		
370-20				_		set become more fine greened fine cours and bee more angular sele-sal-
			_		· .	more fooly wills in sit that her integrety love of bright ble while flow
						with good for streaming blue while of zeil.
3720-30						dolombe a.a. (25-33')
3732-49	معن،					and ag sout- 1 well told dear love of gom.
7740 -50	101					nt
3 759-60	[5]					not of - fg met - 1 well noted (poor samples)
1712 - 70	IN					nt -c
3170-8;						ud der coura get subs-r vellgerted longe mounte good vis of no fle
3780-50						not - led 1001 3783-88 rel (88-50) clear langing, getweel id, well sorted to mity no fle
; 790-10					_	not a c. well so his portion of the
3:10-20	100			17		Sandstone: wh- ary loose, ufa-vca dan ca, subana-rnd day vnd.
				1		Sandstone: wh-gry, bose, ufg-vcg dan cg, subang-rnd dan rnd. Lignite: drle brn-blk, firm, fine diss parile, plint mat visable in sin gras.
3920-40	99				5	Sandstone: A/A
						totomic ten, sextind (porosition, boun firm, carb fr
					1	Lignile: A/A:, also prob assoc nodular py
3840-60	99			ŧ		Sandstone A/A: dom VCQ, rounded
	·				8	Lianile A/A
					场	Down in AVA
		\dashv			·	

			ERC	EN]	AGE	E.	WELL NAME GEOLOGIST
SAI	MPLE	. 88	**	148	8	3.55	SAMPLE DESCRIPTION . EAST SEACCHES NOI JOCP / PJ.L 16
	8-70	90			1 (4) 1 (2) 4 (4)	erekt er bed er er bet	Sandstone: or-milky, fq-ucq. dom vcq, sub ang-md dom and, well sorted
	•		ă				good intered porosity;
		***	456		5		Lignite: blk-bm, frm, fibrous, fine dist prite very common, assoc nodular pyr
				3			Dolomile: brn, Vhrd, (poss cavings)
		K	•			20	Sandstone &: assoc with lignite, vfq, clr, sulma, mod sorted,
							: sats possibly interboaded.
38	70-80				5	4.5	Lignile A/A, v common modular py
		90					Sandstone: A/A
		10				1.	Sandet 2: A/A.
		 ``		5			
30	50-9	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		Ĭ			Sand=ine: Milky, loose, yfa-cq, don cq.
	92-03	T .		-			
		Σ.				ارخ	not in 1949- dolo. 11 light her
1 '	104 - 1 ^{3.}	100	<u> </u>	-	-	20 10	
	10-20			-		(0)	dol 3809-19 bm bel ac
1 /	920-30	i	-		75		lignele brown, plr clist; in 15/ ml an.
	30-40		 	sis+	/0		legnele au
1-7	42-12			60	40		ligade - ac sold chor brown very carb to py fin
39	360-60	/00	_				sandelan course gen subsert well solo as f/c no not x ug s.s.p
30	10-71	101	_	70	15 m		med ac bright flow I dow while melley cent a melly remotes
79	70-90	50		33		- 1 A	ret & ald ac
39	80-90	101	18				nd ac
3614	1, - 4000	7		施		₹.%	(not an 451. notice) vfg-fy well of well sorter of good for making pour ves of grades to substitute
	410					18 18 18 18 18 18 18 18 18 18 18 18 18 1	I from to cash wal the day! mt for white-jug. lon.
Z.	- 20						and cq variety

402 32-6	1	13	8	E I	SAMPLE DESCRIPTION
					The Albertan Co.
				瓊	set o lignete
300		r (0.48	nt + kig
40-50				. A.	Reg
55-60	7 :		19.	4.4 1	light
60-70					ly .
70-80			•		lig
4080-90			50		Lignite, drk bin-blk, mod hrd- fim, sub bitumus, some cut (gin-slit)
				ri#	dight sheenantal faces, common diss pyrile, dightly films.
50	2			·	Sandstone: Milky loose, mg-ucg dan ucg, sub ang-sub md dan subrnd.
				<u> </u>	mad sorting, quartzace, good vis &
00-000t			100		Lignile ala.
4100-10			lαc		Lignite a/a (dyklorn-blk)
4110-20			la	_	ala 2
4120-30			100		ala.
4130-40		<u> </u>	lω		ala. /
4140-50					Sandstone: Cir-miky, loose, fg-vcg dom vcg, sbang-randed dom subrad
or	1			<u> </u>	mort, good vie b vfg,
20)	1. 3			-	Idamile: gin-gry, vhrd, prob ddomitic, por &, minor carb mat, minor, florese, no cut
	VE	<u> </u>			aradina to ben-on from hid dol in oit. Dose duconitic
				K	Pyrile nodular bn, eft fim, minor facil, micacoas
4150-60 40			***	र यहाँ हैं. े	Sandstone: A/A mineral
* C	2			8	Dolomie : AA adamitic, minor, Horescence, no cut
	k)			Siltstone ton, soft-Rm, minor facility, micaceas carb
	\perp	1 1		h	Danle / AA

SAMPLE	188	ERC W	ENT	AGE	OTHER	SAMPLE DESCRIPTION EXCENSE US (JXXP/PUL 18
446000	1			***		Sandstone A: Cir milky, loose, fg-ucg dom ucg, subang-rounded dom subind.
•			100	100	Province of Province	mad ant and is \$
		1	8	sili.	11140	Dolomite: 19t brn, very hird, vfq, dolomitie, poss glas conitie
	-		ti / sér	tal.	Art.	Minieral Abrescence, no at
				÷.	δ	Siltstone: brn, sft fim, minor facil, micacoous.
4710-80	ਲ			50	1	SubBitCol: Blk-drk bon, sft frm, dissemmated py, slt grn at, dirty, low gas assoc
					1. W	Sandst: lot lan chr milky, ang - subrad dom subrad, fg-ucg dom cg, moderate
1000						sort. St.
450-90				100		"Sub Bit Cool: a/a dirty, low gas read assoc.
4190-00				œ		A/A.,
4200-10		20		•		Mudistone: four, soft, sticky
	·			50		Sub Bit Cool: a/a
4212-20			-			Sanded Uly of g red rated beer they not
•						
4210-20		20				Muddy siltstone: faun-It bon, soft, sticky
	50					Sandstone: milky, loose, vfq-fq, subrad, well sort
4220-30	2100			•		Sandstone: clr-milky, loose, cg-vcg dan vg, submd-svb ang dan sub and,
						quarteore.
4230-40	100					Sandst: A/A
4240-50		,	77		43.	Sandstone: \$ a/a fa
12450 -60		À	4			WA
120-70				, 1°		Sandstone: dr. mlky, boxe cq-ucq, subona
270 -Si		1 j	113	Ag.		ala
4290-90						La XXIII

SAMPL'S	351	HALE	MST	TAG	утне	SAMPLE DESCRIPTION FOR SPACEMEN 1 DCP/PJL 10
£29000			-	3		
TAU. D				े अप से अप		J. 1000, 100
200-10	-	(0	4			Sub ang - Subrad dom sub ang. OIL and GAS DIVISION
300-10			3		Y ₁	Sandstone: a/a (infered from dr.; siltst/modet prob bet in mud stream) 21 JUN
f-310-20			*		_	Sandstone: da ca-gran
t320-30	100				-	Set: a/a
330-40	<u>.</u>	80	i	·	<u> </u>	Muddy Sillatone 1 lgt bon, soft, stocky
	20	<u>.</u>		<u> </u>		Sandat: ala
1340-50	100					Sandst: a/a, fg - ucg (infered dom fg)
(3-60					103	
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-80						who is north in the day as for noty
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30-40	مد					not en our bin strining
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			1 2			cr-a-83/D

This is an enclosure indicator page. The enclosure PE904838 is enclosed within the container PE902709 at this location in this document.

The enclosure PE904838 has the following characteristics:

ITEM_BARCODE = PE904838
CONTAINER_BARCODE = PE902709

NAME = Geographic Location Map

BASIN = GIPPSLAND
PERMIT = PEP 94
TYPE = WELL
SUBTYPE = MAP

DESCRIPTION = East Seacombe 1 Geographic Location

Map. Figure 1 of WCR.

REMARKS =

DATE_CREATED =

DATE_RECEIVED = 29/10/80

 $W_NO = W733$

WELL_NAME = East Seacombe-1

CONTRACTOR =

CLIENT_OP_CO = Beach Petroleum N.L.

This is an enclosure indicator page. The enclosure PE902710 is enclosed within the container PE902709 at this location in this document.

The enclosure PE902710 has the following characteristics:

ITEM_BARCODE = PE902710
CONTAINER_BARCODE = PE902709

NAME = Time-Depth & Velocity Curves

BASIN = GIPPSLAND

PERMIT =

TYPE = WELL

SUBTYPE = VELOCITY_CHART

DESCRIPTION = Time-Depth & Velocity Curves

REMARKS =

DATE_CREATED = 14/07/1980

 $DATE_RECEIVED = 29/10/1980$

 $W_NO = W733$

WELL_NAME = East Seacombe-1
CONTRACTOR = Beach Petroleum NL
CLIENT_OP_CO = Beach Petroleum NL

This is an enclosure indicator page. The enclosure PE601403 is enclosed within the container PE902709 at this location in this document.

The enclosure PE601403 has the following characteristics:

ITEM_BARCODE = PE601403
CONTAINER_BARCODE = PE902709

NAME = Exploration Logging Mudlog

BASIN = GIPPSLAND

PERMIT =

TYPE = WELL SUBTYPE = MUD_LOG

DESCRIPTION = Exploration Logging Mudlog

REMARKS =

DATE_CREATED = 12/07/1980 DATE_RECEIVED = 29/10/1980

 $W_NO = W733$

WELL_NAME = East Seacombe-1
CONTRACTOR = Exploration Logging
CLIENT_OP_CO = Beach Petroleum NL

This is an enclosure indicator page. The enclosure PE601404 is enclosed within the container PE902709 at this location in this document.

The enclosure PE601404 has the following characteristics:

ITEM_BARCODE = PE601404
CONTAINER_BARCODE = PE902709

NAME = Composite Well Log

BASIN = GIPPSLAND

PERMIT =

TYPE = WELL

SUBTYPE = COMPOSITE_LOG

DESCRIPTION = Composite Well Log

REMARKS =

 $DATE_CREATED = 13/07/1980$

 $DATE_RECEIVED = 29/10/1980$

 $W_NO = W733$

WELL_NAME = East Seacombe-1
CONTRACTOR = Beach Petroleum NL
CLIENT_OP_CO = Beach Petroleum NL