

SUSPENDED

PROP. 11-1-1969
COMP 14-2-1969

LAT. 38° 23' 10" N

LONG. 147° 59' 15" W

SALMON-1

ESSO. T.D. 9865

W.D. 210 R.T. 9
OCEAN DIGGER

IES RUN 1 805-2300 SEPARATE LOGS 2 AND 5

" 2 2256-7942 " " 2 " 5

" 3 7700-9864 " " 2 " 5

B.H.C.S. " 1 805-2278 " " 2 " 5

" 2 2256-7940 " " 2 " 5

" 3 7700-9846 " " 2 " 5

F.D.C. " 1 2256-7943 " " 2 " 5

" 2 7700-9865 " " 2 " 5

C.D.M. " 1 582 2263-9846

EXPLORATION LOGGINGS MUDLOG. 830'-9865'

CORE DESCRIPTIONS OF NO. 1 CORE. 9844'-9865' ONLY ONE CUT.

S.W.C. " 2300-8954'. 74 SHOT. 63 RECOVERED.

CORE ANALYSIS REPORT. 9844-9865' EXPLORATION LOGGING.

TIME DEPTH CURVE.

WELL SUMMARY WITH LITHOLOGY.

CUTTINGS; 830'-9850' IN STORE.

CORE: NO. 9844'-9865' " "

PALYNOLOGY REPORT BY L.E. STOVER. PLUS REVISION.

MICROPALAEONTOLOGY REPORT BY D. TAYLOR.

WELL COMPLETION LOG.

PALAEONTOLOGICAL SHEET BY D. TAYLOR.

VITRINITE REFLECTANCE BY AMOCO. 220486.

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**SALMON-1
(W541)**

Well Summary Report

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Well Completion Log

Continuous Dipmeter Log

Mud Log (20 pages)

WELL SUMMARY

541
INTERPRETATIVE

SALMON 1 - WELL SUMMARY



Type of Well: Exploration.

Purpose of Well: Salmon 1 well was located approximately 5 miles south of Cod 1 well. As seismically mapped on the Latrobe Topographic Surface, the Salmon feature was a faulted anticline plunging to the north-east and flattening gently to the south-west. Two transverse faults were recognised. At depth structural configuration was approximately the same as that at the Latrobe Topographic Surface. Closure at the top of the Latrobe Valley Formation was mapped to be about 300 feet. 600 feet of closure was mapped in the Lower Paleocene. The well did not encounter any hydrocarbons and currently the seismic interpretation is being reappraised.

Well Statistics:

Status: Suspended as of February 15, 1969.

Location: Latitude 38° 25' 15" S
Longitude 147° 59' 15" E
Shot Point 2470, Line EH 225.

Drilling Unit: Ocean Digger.

Elevation: R.T. 99 feet above mean sea level.

Water Depth: 210 feet.

Spudded: January 14, 1969.

Completed: February 14, 1969.

Operation Time: 32 days.

Total Depth: 9865 feet.

Casing:
30 inch at 381 feet
20 " " 802 "
13³/₈ " " 2253 "
9⁵/₈ " " 9787 "

Plugs: A plug was set at 800 feet using 75 sacks of cement.

Mud Logging: Exploration Logging logged the well from 830 feet to total depth.

Electrical Logging:

IES	Run 1✓	805 - 2300	feet
	Run 2✓	2256 - 7942	"
	Run 3✓	7700 - 9864	"
Sonic	Run 1✓	805 - 2298	"
	Run 2✓	2256 - 7940	"
	Run 3✓	7700 - 9846	"
FDC	Run 1✓	2256 - 7943	"
	Run 2✓	7700 - 9865	"
CDM	Run 1✓		

Velocity Survey: Survey at 7966 feet.

Coring: A bottom hole core over the interval 9844 to 9865 feet was the only core cut. Recovery on this core was 21 feet or 100%. A total of 74 sidewall cores were shot with a recovery of 63.

Core Analysis:

<u>Depth</u>	<u>Permeability</u>	<u>Porosity</u>	<u>Water</u>	<u>Oil</u>
9845	0	3.6	66.0	14.6(?)
9857	0	.9	154 (distillation products from coal)	230
9865	0	7.3	29	Trace.

Hydrocarbons: No hydrocarbon shows were encountered during the drilling of Salmon 1 well.

Stratigraphy:

<u>Formation</u>	<u>Age</u>	<u>Top(RT)</u>	<u>SubSea</u>	<u>Thickness</u>
Water.		99 ft		210 ft
Gippsland	Miocene	309 ft	-99 ft	5791 ft
Lakes Entrance	Oligocene	6100 ft ¹⁸⁵⁹⁻²⁸	-6001 ft	525 ft
Latrobe Delta	Eocene	6625 ft ²⁰¹⁹⁻³	-6526 ft	3204+ft
	Paleocene			

Lithology:

Gippsland Formation:

830 - 6100 feet: Limestone: light grey to grey-brown, soft to medium hard, fossiliferous, some quartz grains, marly in part, trace glauconite and dolomite. Some micrite. Marl: mainly in lower part of section.

Lakes Entrance Formation:

6100 - 6625 feet: Shale: grey to olive grey, silty with fossil fragments silt size, glauconite, slightly pyritic.

Latrobe Delta Formation:

6625 - T.D.: Sandstone quartz, grey to light brown, coarse to very coarse grained up to pebble size, subrounded to rounded, moderate sorting, some pyrite coating on grains, unconsolidated.

Siltstone: light brown, carbonaceous, sandy, shaly, pyritic, laminated.

Shale: light to dark brown, silty, carbonaceous, weakly pyritic, hard.

Coal: black, anthracitic.

LITHOLOGY

Lithology:

SALMON - 1

3 of 5

- 830 to 2300 feet: Limestone and coquina. Very fossiliferous, slightly to very marly, silty, light grey to brown, some quartz grains.
- 2300 to 6050 feet: Limestone and marl, some white micrite.
- 6050 to 6404 feet: Shale: grey to olive grey, silty with silt size fossil fragments, glauconite very common, slightly pyritic.
- 6404 - 6630 feet: Shale: grey to olive grey, silty with silt size fossil fragments, glauconite very common, slightly pyritic.
- 6630 - 6650 feet: Sandstone: quartz, grey to light brown, coarse to very coarse grained up to pebble size, sub-rounded to rounded, moderate sorting some pyrite coating on grains, unconsolidated.
- 6650 - 6670 feet: Interbedded sandstone and coal, black, anthracitic, conchoidal fracture.
- 6670 - 7010 feet: Sandstone as above.
- 7010 - 7030 feet: Coal with trace sandstone.
- 7030 - 7100 feet: Interbedded sandstone, siltstone and coal.
- 7100 - 7190 feet: Sandstone.
- 7190 - 7210 feet: Coal.
- 7210 - 7966 feet: Interbedded sandstone, as above; coal and shale, light to dark brown, silty, carbonaceous, trace pyrite, fairly hard.
- 7966 - 8020 feet: Increasing shale, light to dark brown, carbonaceous, pyrite, firm and locally silty. Minor siltstone light brown, soft, massive, carbonaceous, trace sandstone and coal.
- 8020 - 8060 feet: Coal, shale and minor siltstone.
- 8060 - 8080 feet: Shale, siltstone, minor coal.
- 8080 - 8130 feet: Sandstone, quartz, fine to coarse grained, sub-angular to rounded, moderate to poor sorting, firm to hard, local dolomite siltstone, shale and trace coal.
- 8130 - 8140 feet: Coal.
- 8140 - 8200 feet: Sandstone with siltstone and shale.

- 8200 - 8240 feet: Coal and siltstone, some sandstone, trace shale.
- 8240 - 8260 feet: Sandstone, shale and coal.
- 8260 - 8330 feet: Sandstone and siltstone.
Sandstone: grey, very fine to very coarse grained, rare clay matrix, dolomite, sub-angular to sub-rounded, silty, trace coal.
- 8330 - 8360 feet: Shale and siltstone, some sandstone.
- 8360 - 8380 feet: Sandstone and siltstone, trace shale.
- 8380 - 8440 feet: Siltstone, coal, shale, trace sandstone.
- 8440 - 8530 feet: Sandstone, slightly silty, with some shale.
- 8530 - 8570 feet: Siltstone: light to dark brown, micaceous, carbonaceous, some sandstone, clear to white quartz, fine to medium grained, sub-angular to sub-rounded, carbonaceous, rare dolomite matrix. Some shale: dark grey to brown, carbonaceous, pyritic, trace coal.
- 8570 - 8750 feet: Sandstone, some siltstone and shale.
- 8750 - 8770 feet: Shale, some sandstone and coal.
- 8770 - 8800 feet: Sandstone, siltstone, shale, trace coal.
- 8800 - 8900 feet: Shale, some sandstone and coal.
- 8900 to 8910 feet: Shale: light to dark brown, carbonaceous, micaceous, fissile with silty laminae, trace coal.
- 8910 to 8940 feet: Shale interbedded with sandstone, very fine to fine grained, carbonaceous, moderately to well sorted, subrounded to rounded, dolomitic and argillaceous matrix and coal.
- 8940 to 8970 feet: Sandstone with siltstone and shale.
- 8970 to 8980 feet: Coal, sandstone, siltstone and shale.
- 8980 to 9080 feet: Sandstone, siltstone and coal.
- 9080 to 9160 feet: Sandstone, siltstone, some shale and minor coal.
- 9160 to 9210 feet: Coal, with siltstone and some shale.
- 9210 to 9260 feet: Siltstone, brown, carbonaceous, firm, shaly; some pyrite.

- 9260 to 9280 feet: Coal.
- 9280 to 9330 feet: Sandstone quartz, very fine to fine and medium grained, slightly dolomitic, clay matrix, poor porosity and permeability.
- 9330 to 9340 feet: Coal.
- 9340 to 9380 feet: Siltstone with some coal.
- 9380 to 9410 feet: Sandstone as above.
- 9410 to 9530 feet: Siltstone and coal interbedded with sandstone. Siltstone: brown to grey, firm, carbonaceous, slightly shaly and pyritic.
Sandstone quartz: grey, hard, very fine to fine-grained, slightly dolomitic matrix, poor porosity and permeability.
- 9530 to 9680 feet: Interbedded siltstone and coal with some sandstone.
- 9680 to 9730 feet: Sandstone as above with some coarse grained, not as dolomitic as above; some siltstone.
- 9730 to 9760 feet: Sandstone with interbedded coal and siltstone.
- 9760 to 9770 feet: Coal.
- 9770 to 9790 feet: Siltstone.
- 9790 to 9844 feet: Sandstone, some coarse grains, clay matrix interbedded with siltstone and coal.

Core No.1: 9844 to 9865 feet. Cut 21 ft, recovered 21 ft.

- 9844 to 9853 feet: Siltstone: dark grey to brown, hard, very shaly, very carbonaceous, scattered pyrite, slightly micaceous.
- 9853 to 9858 feet: Coal: black, brittle, some pyrite.
- 9858 to 9865 feet: Siltstone, as above.

Gas Readings:

<u>Depth (ft)</u>	<u>Cuttings</u>	<u>HotWire</u>	<u>C1</u>	<u>C2</u>	<u>C3</u>	<u>C4</u>	<u>CO2</u>
8926-9230	0 - 18	2 - 15	30-1100	0-150	0-20	-	90
9230-9430	5 - 45	5 - 55	20-1100	10-220	15-25	tr.	90
9430-9570	0 - 3	10	40	0- 10	-	-	90
9570-9844	.2 - 48	5 - 45	10-3000	5-200	0-200	-	80-90

...~~5~~

CORE

CORE

EXPLORATION LOGGING OF AUSTRALIA, INC.

A Geological-Engineering Service

BASIC
121

PERTH ADDRESS: 69 GREAT EASTERN HIGHWAY, VICTORIA PARK, WESTERN AUSTRALIA
PHONE: 61 4437 CABLE: EXLOGG. PERTH

CORE ANALYSIS REPORT

COMPANY ESSO-BHP DATE FEBRUARY 8, 1969
 WELL SALMON 1 DEPTH 9844 TO 9865
 LOCATION/FIELD OFFSHORE / GIPPSLAND GEO-ENGINEER CRAIG S. WATT
 COUNTY _____ STATE VICTORIA
 COUNTRY AUSTRALIA

REMARKS CUT 21°, REC. 21° 9844-53 SILTSTONE: DARK GRAY-BROWN WITH LIGHT GRAY LAMINATIONS, VERY SHALY & CARBONACEOUS, PYRITIC. 9853-58 COAL: BRITTLE, PYRITIC, DENSITY = 1.28. 9858-65 SILTSTONE: AS ABOVE. LOCALIZED YEL-GOLD FLOR. IN COAL.
 TABULAR DATA VERY SLIGHT, TIGHT SHOW. ANALYSIS GRAPH

SAMPLE NUMBER	DEPTH FEET	AIR PERM. MD.	POROSITY PERCENT	FLUID SATURATION % PORE VOLUME		GRAVITY OIL °API	TOTAL CL G/G	REMARKS	PERMEABILITY MD. ○—○		WATER SATURATION % PORE ○—○		OIL SATURATION % PORE x—x	
				OIL	WATER				8	0	100	0	0	100
1	9845	0	3.6	14.6	66.0	NA	NA	14.6%						
	9850							RECOVERY OF AN UN- DETERMINED BLUE- GREEN FLUID, THAT IS HEAVIER THAN WATER NOTE GAS CONTENT BELOW						
2	9857	0	.9	230	154	NA	NA	RECOVERED DISTILLATION PRO- DUCTS FROM COAL VOLATILES, GIVING LARGER RECOVERY THAN PORE VOLUME						
3	9865	0	7.3	TRACE	29	-	-							
NOTE: CHROMATOGRAPH READINGS FROM RETORT TUBE														
SAMPLE - 9845°														
C1	6300 PPM													
C2	500													
C3	85													
C4	150													
C4N	100													
C5	400													

ESSO STANDARD OIL (AUSTRALIA) LTD.

BASIC

CORE DESCRIPTION

Core No. 1

WELL: SALMON #1

Interval Cored 9844-65 ft., Cut 21 ft., Recovered 21 ft., (100 %) Fr. LATROBE

Bit Type CB, Bit Size 8 3/8 in., Desc. by Laramore & Whittle, Date Feb. 8 '69

Depth & Coring Rate (min./ft.)	Graphic (1" = 5')	Shows	Interval (ft.)	Descriptive Lithology
<div style="display: flex; justify-content: space-between; width: 100px;"> 5 10 15 20 </div>				
9845				
9850				
9855				
9860				
9865				
			<u>DELTA PLAIN</u> - Siltstone interbedded with coal.	
			<u>9844 - 9853. 7' SILTSTONE</u> dk. gry - brn. v. shaley. v. carbonaceous. scattered pyrite inclusions. slightly micaceous. Lt gry siltstone lamina, wavy, discontinuous, even, parallel, all have mostly horizontal attitude. Scattered horizontal & vertical fractures. Numerous - carbonized leaf & plant impressions. No burrowing or chaotic bedding present. No shows.	
			<u>9853 - 9858 5' COAL</u> blk. brittle, scattered pyrite inclusions occurring as bands of disseminated & concentrated pyrite, occ defining bedding planes. Scattered gold fluorescence.	
			<u>9858 - 9865 7' SILTSTONE</u> as for 9844-9853. NB. Very poor porosity & no permeability. - no shows.	

REMARKS:

SIDEWALL CORE

BASICSALMON-1SIDEWALL CORE DESCRIPTIONS

January 31, 1969.

- 2300' Limestone, (calcareous lutite) medium grey, massive, firm, trace of argillaceous material.
- 2700' Limestone (calcareous lutite), light to medium grey, fine parallel veins of light and dark material, light bands dolomitic, firm.
- 3100' Limestone, light to medium grey, fine alternating bands of light and dark material, parallel bedded, firm, trace argillaceous material (calcareous lutite). Fine veins of dolomite.
- 3400' Limestone, light grey, massive, firm, trace argillaceous material.
- 3600' Limestone, medium grey, massive, firm, trace argillaceous material (i.e. calcareous lutite).
- 3750' Limestone, medium grey, massive, minor trace argillaceous material (i.e. calcareous lutite).
- 3900' Limestone, medium grey, firm, massive, minor trace argillaceous material.
- 4100' Limestone, medium to dark grey, firm to soft, massive, minor trace of argillaceous material (i.e. calcareous lutite).
- 4300' Limestone, light to medium grey, fine parallel bedding, trace of argillaceous material, firm to medium, (i.e. calcareous lutite).
- 4500' Limestone, medium to dark grey, massive, firm to medium, traces of argillaceous material, rare glauconitic and carbonaceous material. (ie calcareous lutite).
- 4800' Limestone, medium to dark grey, massive, firm to medium (i.e. calcareous lutite)
- 5004' Limestone, medium to dark grey, massive, traces of glauconite, rare quartz pebbles (well rounded, clear), firm to medium (i.e. calcareous lutite).
- 5043' PULLED OFF
- 5094' Limestone, medium to dark grey, massive, very soft, mud sized crystal. calcareous particals (i.e. calcareous lutite), traces glauconite and carbonaceous material.
- 6500' PULLED OFF
- 6630' Glauconitic, argillaceous siltstone: dark grey, brown-green, massive, firm to soft with medium to well sorted, angular to rounded, silt, fine grained sand in dark brown argillaceous matrix containing abundant green diffuse glauconite grains and very fine grain to fine grained pyritic crystals.

SIDEWALL CORE DESCRIPTION cont'd.

March 31, 1969.

- 6640' PULLED OFF
- 6654' Very argillaceous Sandstone: (Or a sandy mudstone) very dark brown-grey, massive, firm, with angular to rounded, dominantly subrounded to rounded, fine to coarse grained poorly sorted, rare pebble and granular size grains embedded in dark brown micaceous clay matrix. Quartz grains stained - discoloured to brown to red brown. (Oxidation?).
- 6668' Sandy glauconitic Siltstone: dark grey-green-brown, massive, firm to soft, angular to subrounded, siltstone moderately well sorted, with minor fine to coarse grains, subrounded to rounded, sand grains scattered throughout, minor 5% glauconite as scattered grains strongly pyritic and micaceous.
- 6692' Sandstone: grey, massive, medium grained, moderately well sorted, angular to rounded, soft to firm, pyritic with very fine grain, disseminated, pyritic crystal concentration in diffuse nodule.
- 6888' Argillaceous Siltstone: dark grey brown, laminated, firm, with some rare medium to coarse grained, angular to rounded, quartz grains, micaceous, tight.
- 7040' Argillaceous Siltstone: dark grey brown, as above.
- 7060' PULLED OFF
- 7220' Argillaceous Siltstone: dark grey-brown, clay choked and with some argillaceous micro lamellae. Very little carbonation material, micaceous and weakly pyritic. No show.
- 7310' Silty Shale: grey-brown, firm to soft, well compacted weakly laminated.
- 7440' NO RETURN - PULLED OFF BARREL IN HOLE.
- 7640' Argillaceous Siltstone: grey - light brown, laminated, soft to firm, with interlaminated siltstone and silty mudstone, weakly pyritic.
- 7740' Sandstone: grey, fine to medium grained, angular to rounded, moderately well sorted, soft to firm, clean, with rare, thin wavy, discontinuous shaley lamellae. Good Porosity and Permeability. No show.
- 7844' Argillaceous Siltstone: grey-light brown, soft to firm, weakly, laminated with argillaceous lamellae, Siltstone, massive, well sorted, weakly pyritic and micritic, minor fine grained sand.
- 7858' Sandstone, grey, fine to medium grained, angular to rounded, moderately well sorted, soft to firm, moderately well compacted, massive, weakly pyritic, with very fine grained disseminated pyritic grains and local medium grained nodular aggregates. Weakly micaceous and very minor clay matrix. No show. Good porosity and permeability.

SIDEWALL CORE DESCRIPTION

February 9, 1969.

2406'	1½"	<u>Marl</u> ; firm, light grey, with fragments of hard white limestone. No show.
2987'	1½"	<u>Marl</u> ; soft,-firm, dark grey, fossiliferous, with hard grey limestone fragments. No show.
3500'	1½"	<u>Marl</u> ; firm grey. No show.
4000'	1½"	<u>Marl</u> ; firm, grey with disseminated mica. No show.
4760'	½"	<u>Marl</u> ; firm, grey. No show.
4900'	1½"	<u>Marl</u> ; firm, grey, fossiliferous, slightly micaceous slightly sandy. No show.
5120'	1½"	<u>Marl</u> ; firm, grey, fossiliferous, slightly micaceous, slightly silty. No show.
5350'	1"	<u>Marl</u> ; firm, dark grey, fossiliferous. No show.
5602'	1½"	<u>Marl</u> ; firm, soft, dark grey. No show.
5880'	1½"	<u>Marl</u> ; firm, dark grey, slightly micaceous, with limestone fragments, silty. No show.
6030'	1½"	<u>Marl</u> ; firm to soft, dark grey slightly pyritic, calcareous fragments (possibly fossil debris. No show.
6236'	1½"	<u>Marl</u> ; firm-soft, grey, fossiliferous, slightly silty. No show.
6416'	1¾"	<u>Marl</u> ; firm, dark grey, slightly micaceous. No show.
6496'	1¾"	<u>Marl</u> ; firm, grey, fossiliferous, slightly micaceous. No show.
6555'	1"	<u>Marl</u> ; firm, dark grey, very glauconitic, silty, slightly micaceous. No show.
6595'	2"	<u>Siltstone</u> ; firm, dark grey - brown, very glauconitic, micaceous, slightly calcareous. No show.
6615'	1½"	<u>Siltstone</u> ; firm, dark brown, very glauconitic, micaceous, slightly calcareous. No show.
6637'	1"	<u>Siltstone</u> ; soft, light brown, glauconitic, micaceous. No show.
6661'	1"	<u>Sandstone</u> ; soft, brown, coarse-granule grains, sub angular to rounded, frosted, with abundant disseminated fine grained pyrite, glauconitic, calcareous matrix. Poor porosity. No show.
6688'	1"	<u>Shale</u> ; firm, dark brown, carbonaceous, micaceous. No show.
7008'	1"	<u>Coal</u> ; brittle, black. No show.
7172'	¼"	<u>Siltstone</u> ; firm, brown, carbonaceous, micaceous, pyritic. No show.
7444'	½"	<u>Coal</u> ; brittle, black. No show.
8008'	¼"	<u>Shale</u> ; firm, brown, micaceous, slightly carbonaceous. No show.

8154'	½"	<u>Shale</u> ; firm, brown, micaceous, slightly carbonaceous. No show.
8426'	1"	<u>Coal</u> ; brittle, black.
8656'		N.R.
8658'	1½"	<u>Sandstone</u> ; firm, white, fine grained, angular, in white clay matrix. Fair porosity. No show.
8673'	½"	<u>Sandstone</u> ; soft, white, as above. No show.
8784'	¾"	<u>Sandstone</u> ; firm, white, very fine grain. As above. No show.
*8820'	½"	<u>Shale</u> ; firm, brown, with coal fragments. No show.
8997'		N.R.
9010'		N.R.
9109		N.R.
9250'	1"	<u>Shale</u> ; firm, brown, micaceous, silty. No show.
9360'	½"	<u>Shale</u> ; firm, brown, micaceous. No show.
9532'	½"	<u>Sandstone</u> ; firm, light grey, fine grained, angular, well sorted, slightly micaceous, dolomitic matrix. Fair porosity. No show.
9540'	1½"	<u>Sandstone</u> ; as above.
9615'	¾"	<u>Sandstone</u> ; as above.
9633'	¾"	<u>Sandstone</u> ; as above.
9708'	1"	<u>Sandstone</u> ; firm, grey, fine grained, angular, well sorted. No show.
9806'		N.R.
9810'		N.R.
*8954	½"	<u>Siltstone</u> , firm, brown, micaceous. No show

BHL:AW
February 12, 1969.

VELOCITY SURVEY

VELOCITY SURVEY

Well Salmon 1
Basin Gippsland

Date 25 MAR 1969
LIB FILE NO
ESSE ST
NY

INTRODUCTION

Esso personnel P J Birmingham
Contractor United Geophysical

Supplied (1) Instruments

(2) Personnel

Seismic Observer A. Stahr
Marine Shooter Lm Moore

(3) Licenced Shooting Boat

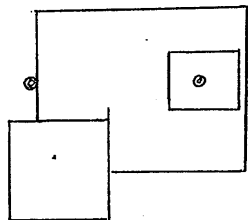
name Wendy Maree
date loaded 29/1/69
date released 31/1/69
Agent Desma Engineering
amount of powder 400 lbs
size of cans 33 lbs
number of cans 12
number of caps 12
number of boosters 12

Personnel and Instruments

assembled at Sydney date 29/1/69
boarded (rig) Ocean Digger date 30/1/69
date of survey 31/1/69
casing depth 2256
T.D. when shot 7966 FTD
water depth 210

SURVEY PROCEDURE

Weather: sea Calm
rig movement Nil
rig noise Nil
Hydrophones: number Two
depth below sea level 20 ft
position One next to casing
(Diagram)



* Shot Positioning and Charges:

marker buoys (number Not used
(distance 500 and 1000)
(direction
charge depth 10 ft
number of shots 12 charge size 33 lbs
number of shots charge size lbs
number of misfires Nil
amount of powder used Nil lbs

SHOTS
PHONES

amount of powder dumped Nil...lbs.

Well-phone positioning :

T-bar Not used
number of depths 6
Time: first shot 6:50
last shot 8:00
rig time 1 hour 10 mins.....

RESULTS

Quality of records (good
(fair 12
(poor
(not used

Comparison of Interval Times

with sonic log
/Δ/average 1.88microsec/foot
/Δmax/ 3.64microsec/foot

CONCLUSION

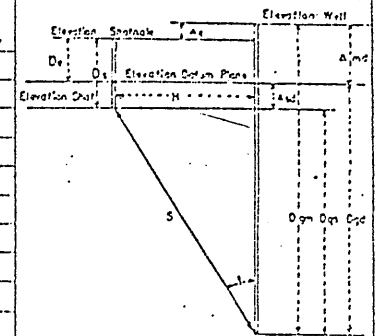
Reliability of T-D curve Good

COMMENTS:

The water breaks were somewhat distorted due to early arrivals through the steel legs of the Ocean Digger.

P.J. Birmingham/leb
February 10, 1969

Shot-hole information - Elevation, Distance & Direction from Well										Company		Well		Elevation		Total Dep.		LOCATION						
										ESSO EXPLORATION AUSTRALIA INC.		SALMON		99'		7966		Coordinates 38° 25' 14" S 147° 59' 14" E Section, Township, Range County Area or Field DATUM: Mean S.L. Gippsland						
Record Number	Shot-hole Mark	Time of Shot	Dgm	Ds	tus	fr	T			Dgs	H	TAN I	Cos i	Tgs	Asd	Asd V	Tgd	Tgd Average	Dgd	Δ Dgd	Δ Tgd	Vi Interval Velocity	Va Average Velocity	
							Reading	Purity	Grade															
		6.50	2475	10'		129	322	D	F	2366	645	.273	.965	.311	10'	.002	.313	.312	2376					
		8.00	2475	10'		173	329	D	F	2366	865	.366	.939	.309	10'	.002	.311						7615	
		6.55	3752	10'		165	441	D	F	3643	825	.226	.975	.430	10'	.002	.432	.433	3653					8436
		7.50	3752	10'		207	448	D	F	3643	1035	.284	.962	.431	10'	.002	.433							
		7.00	4852	10'		184	542	D	F	4743	920	.194	.982	.532	10'	.002	.534	.535	4753					8884
		7.45	4852	10'		211	546	D	F	4743	1055	.222	.976	.533	10'	.002	.535							
		7.05	6080	10'		181	662	D	F	5971	905	.152	.989	.655	10'	.002	.657	.657	5981					9103
		7.36	6080	10'		196	663	D	F	5971	980	.164	.987	.654	10'	.002	.656							
		7.10	6640	10'		176	719	D	F	6531	880	.135	.991	.713	10'	.002	.715	.715	6541					9148
		7.33	6640	10'		205	721	D	F	6531	1025	.157	.988	.712	10'	.002	.714							
		7.20	7804	10'		191	827	D	F	7695	955	.124	.992	.821	10'	.002	.823	.822	7705					9373
		7.25	7804	10'		200	826	D	F	7695	1000	.130	.992	.819	10'	.002	.821							



Dgm = Geophone depth measured from well elevation
 Dgs = " " " " " shot
 Dgt = " " " " " datum
 Ds = Depth of shot
 De = Shot-hole elevation to datum plane
 H = Horizontal distance from well to shotpoint
 S = Straight line travel path from shot to well geophone
 tus = Uphole time of shotpoint
 T = Observed time from shotpoint to well geophone
 tr = " " " to reference geophone
 Δe = Difference in elevation between well & shotpoint
 Δsd = " " " " " shot & datum plane
 Δtd = Ds - Ds
 Dgs = Dgm - Dgt Δe; tan i = $\frac{H}{Dgs}$
 Tgs = cos i T = Vert. travel time from shot elev to geophone
 Tgd = Tgs - $\frac{\Delta sd}{V}$ = " " " " datum plane
 Dgd = Dgm - Δsd
 Vi = Interval velocity = $\frac{\Delta Dgd}{\Delta Tgd}$
 Va = Average = $\frac{Dgd}{Tgd}$

Surveyed by: _____
 Date: _____
 Weathering Data: _____
 Casing Record: _____

11/10/00

UNITED GEOPHYSICAL CORPORATION

UGCC - 5A

OBSERVER'S REPORT

Date JAN 31/69 Time Left Town _____ Time Arrived Field _____

Sheet No. 1 of 1

Seismograph Party No. 141 Base BRISBANE Province QLD

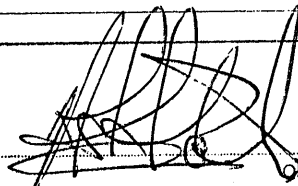
Prospect JALMON #1

Truck No. 141 Inst. Series No. _____ Type Geo. QCE60 Geo. Group _____ /Trace _____ Wind _____ Weather _____

LINE AND SHOT POINT No.	BEARING		SPREAD	GROUP SEPARATION	RECORD No.	TAPE No.	FILTER	CHARGE	DEPTH	TIME	REMARKS		
	TOP	BOTTOM									DB	G	
1	2475						0-T	33 1/2	10'	6:50	H1	80 - 75	
2	4852						"	"	"	7:00	"	"	
3	6080						"	"	"	7:07	70	55 70	
4	6640						"	"	"	7:12	"	"	
5	7804						"	"	"	7:20	"	"	
6	7804						"	"	"	7:24	"	"	
7	6640						"	"	"	7:33	"	"	
8	6080						"	"	"	7:36	"	"	
9	4852						"	"	"	7:49	70	55 70	
10	3752						"	"	"	7:50	"	"	
11	3752						"	"	"	7:55	"	"	
12	2475						"	"	"	8:00	"	"	
TOTALS													

HOLES _____ PROFILES _____ FIELD CONDITIONS _____ RECORDS _____ DYNAMITE _____

Distribution _____ Time Left Field _____ Time Arrived Town _____

Signed  OBSERVER

ORIGINAL - To Client
 DUPLICATE - Party File
 TRIPPLICATE - Supervisor
 QUADRUPPLICATE - Remains in Book

Wind _____ Weather _____

REPORT ALL ACCIDENTS HOWEVER SLIGHT

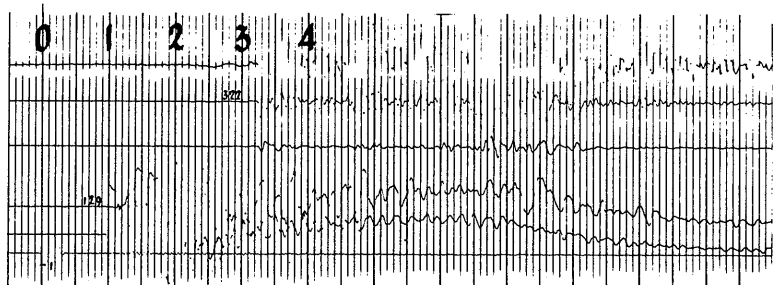
PARTY CHIEF/MGR.

4/30/19

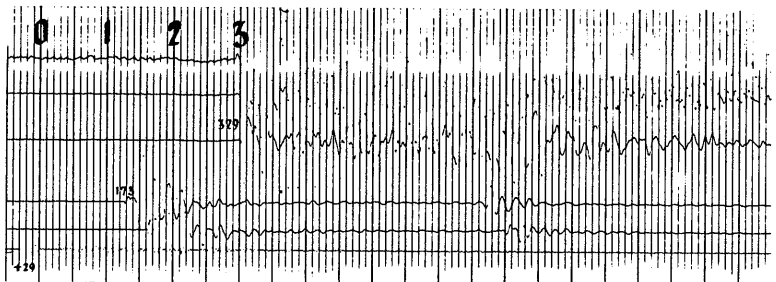
Salmon-1

Well Velocity Record

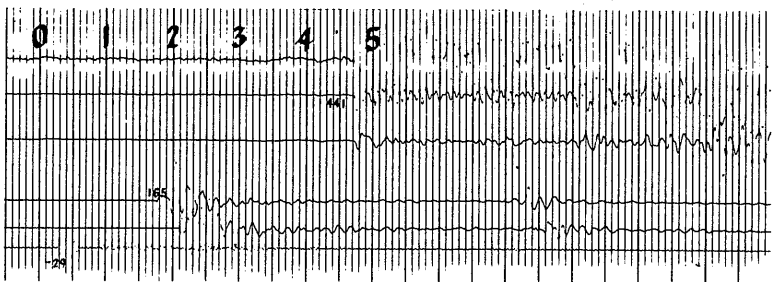
SHOT: 1
OFFSET: 500'
DEPTH OF GEOPHONE: 2475'
CHARGE: 33 lbs. @ -10 ft.
TIME: 0650



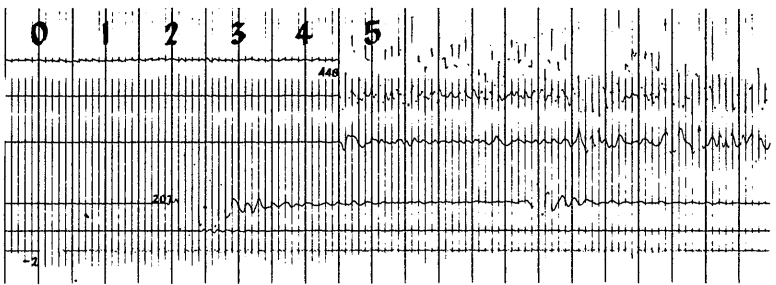
SHOT: 12
OFFSET: 1000'
DEPTH OF GEOPHONE: 2475'
CHARGE: 33 lbs. @ -10 ft.
TIME: 0800



SHOT: 11
OFFSET: 1000'
DEPTH OF GEOPHONE: 3752'
CHARGE: 33 lbs. @ -10 ft.
TIME: 0755



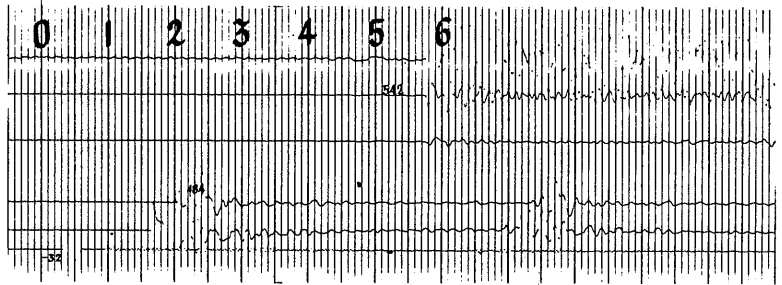
SHOT: 10
OFFSET: 1000'
DEPTH OF GEOPHONE: 3752'
CHARGE: 33 lbs. @ -10 ft.
TIME: 0750



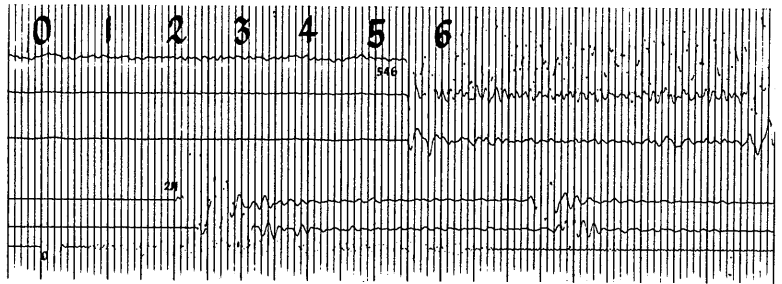
Salmon - 1

Well Velocity Record

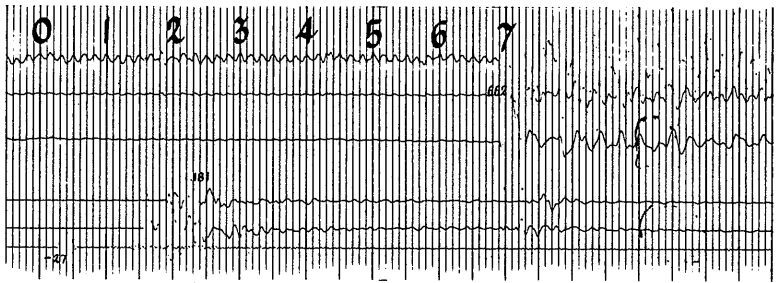
SHOT: 2
OFFSET: 1000'
DEPTH OF GEOPHONE: 4852'
CHARGE: 33 lbs. @ ~10 ft.
TIME: 0700



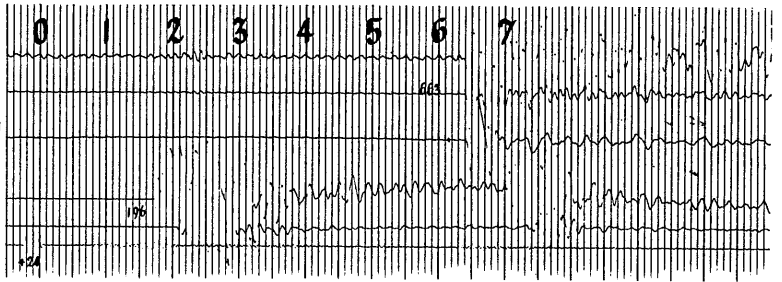
SHOT: 9
OFFSET: 1000'
DEPTH OF GEOPHONE: 4852'
CHARGE: 33 lbs. @ ~10 ft.
TIME: 0745



SHOT: 3
OFFSET: 1000'
DEPTH OF GEOPHONE: 6080'
CHARGE: 33 lbs. @ ~10 ft.
TIME: 0705



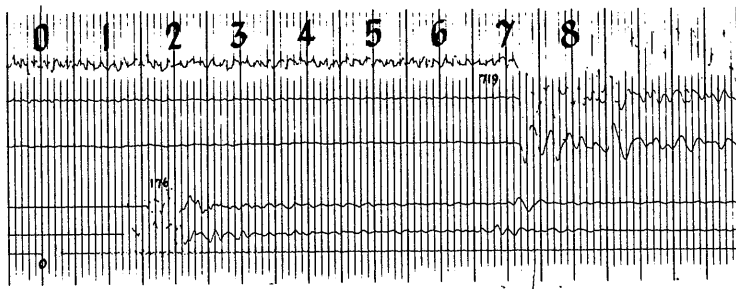
SHOT: 8
OFFSET: 1000'
DEPTH OF GEOPHONE: 6080'
CHARGE: 33 lbs. @ ~10 ft.
TIME: 0736



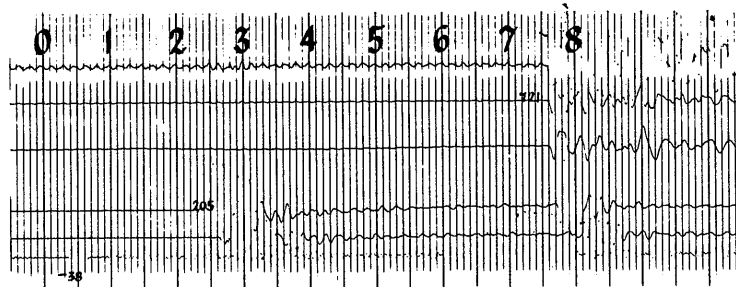
Salmon - 1

Well Velocity Record

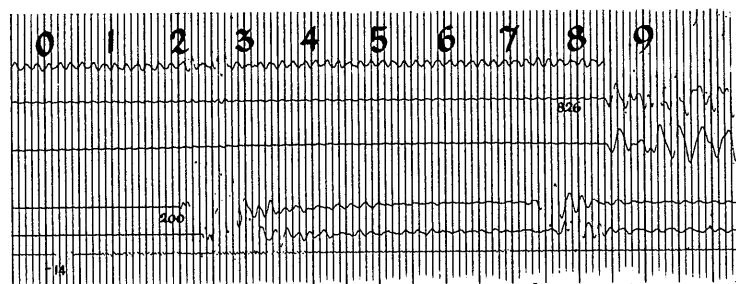
SHOT: 4
OFFSET: 1000'
DEPTH OF GEOPHONE: 6640'
CHARGE: 33 lbs. @ -10 ft.
TIME: 0710



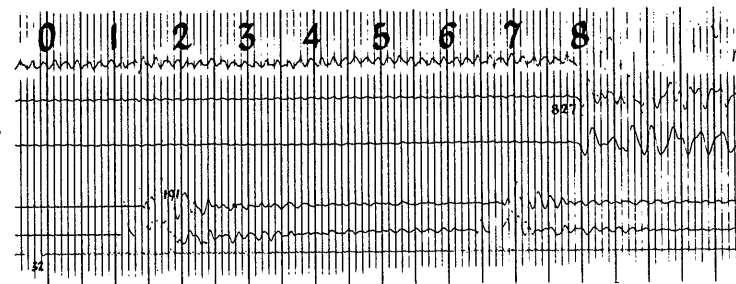
SHOT: 7
OFFSET: 1000'
DEPTH OF GEOPHONE: 6640'
CHARGE: 33 lbs. @ -10 ft.
TIME: 0733



SHOT: 6
OFFSET: 1000'
DEPTH OF GEOPHONE: 7804'
CHARGE: 33 lbs. @ -10 ft.
TIME: 0725



SHOT: 5
OFFSET: 1000'
DEPTH OF GEOPHONE: 7804'
CHARGE: 33 lbs. @ -10 ft.
TIME: 0720



PALYNOLOGY & PALAEOBIOLOGY

[Handwritten scribble]

INTERPRETATIVE

PALYNOLOGY REPORT

ON

SALMON -1

BY

LEWIS E. STOVER

Palynology Report 1970/19

June 1970.

INTRODUCTION

Samples from the Nothofagidites asperus Zone in Salmon -1 between 6595 and 6710 feet reported to contain dinoflagellates (Evans, 1969; Palynology Report 1969/6) were examined to determine the age of the above interval relative to dinoflagellate bearing intervals in other Gippsland Basin wells. The samples contained only small amounts of organic material which necessitated combining some of the residues. Even so, only sparse assemblage were obtained.

SUMMARY

<u>Sample</u>	<u>Drill Depth</u>	<u>Age</u>	<u>Dinoflagellate Zone</u>
swc	6595 feet	Late Eocene	<u>O. diktyoplokus</u>
swc 15 swc 18A	6630/6637 feet (combined residue)	" "	"
swc 13 swc 17A	6654/6661 feet (combined residue)		Indeterminate
swc 12 swc 16A	6668/6688 feet (combined residue)		Indeterminate
cttgs.	66710 feet	Late Eocene	<u>O. diktyoplokus</u>

COMMENTS

Dinoflagellates are extremely rare in nearly all of the residues and none was found in the sample from 6668/6688 feet. Oligosphaeridium diktyoplokus was recovered from 6630/6637 feet and the commonly associated species, Deflandrea oebisfeldensis was identified at 6710 feet. In the uppermost sample at 6595 feet were found specimens of Operculodinium brachycarpum; this species also occurs in Turrum -1 at 6409 and 6415 feet.

INTERPRETATIVE

INTERPRETATIVE

Foram Zonules

		Highest Data	Quality	2 Way Time	Lowest Data	Quality	2 Way Time
PLIO-CENE	A	Alternate			1150	3	
	B	1300	3		2100	3	
MIOCENE	C	2150			3100	2	
	D	3200	3		5000	3	
	D ₁	Alternate					
	D ₂	5120	1		5500	3	
	E	5602	0		5602	0	
	E	Alternate					
	F	5880	1		5880	1	
	F	Alternate					
	G	Alternate					
	H	6030	1		6150	3	
OLIGOCENE	H ₁	Alternate					
	H ₂	6200	3		6236	0	
	H ₂	6236	0				
	I ₁	Alternate					
EOC.	I ₂	6416	1		6416	1	
	J ₁	6496	1		6496	1	
	J ₁	Alternate					
	J ₂	6555	0		6555	2	
EOC.	K	Alternate					
	Pre K						

COMMENTS:

Note: If highest or lowest data is a 3 or 4, then an alternate 0, 1, 2 highest or lowest data will be filled in if control is available.

If a sample cannot be interpreted to be one zonule, as apart from the other, no entry should be made.

- 0 SWC or Core - Complete assemblage (very high confidence).
- 1 SWC or Core - Almost complete assemblage (high confidence).
- 2 SWC or Core - Close to zonule change but able to interpret (low confidence).
- 3 Cuttings - Complete assemblage (low confidence).
- 4 Cuttings - Incomplete assemblage, next to uninterpretable or SWC with depth suspicion (very low confidence).

Date Revised 1-2-77

By David Taylor

BASIN

GIPPSLAND

DATE

INTERPRETATIVE

WELL NAME

SALMON-1

ELEVATION

+31'

AGE	PALYNOLOGIC ZONES	HIGHEST DATA					LOWEST DATA				
		Preferred Depth	Rtg.	Alternate Depth	Rtg.	2 way time	Preferred Depth	Rtg.	Alternate Depth	Rtg.	2 way time
Eocene	<u>P. tuberculatus</u>										
	<u>U. N. asperus</u>										
	<u>M. N. asperus</u>										
	<u>L. N. asperus</u>	6630	1				6688	2			
	<u>P. asperopolus</u>	6888	1				6888	1			
	<u>U. M. diversus</u>	7040	1				7220	1			
	<u>M. M. diversus</u>										
	<u>L. M. diversus</u>	7310	2				7844	1			
Paleocene	<u>U. L. balmei</u>	8008	1				8152	1			
	<u>L. L. balmei</u>	8820	2				9865	1			
	<u>T. longus</u>										
Cretaceous	<u>T. lilliei</u>										
	<u>N. senectus</u>										
	<u>C. trip./T.pach.</u>										
	<u>C. distocarin.</u>										
	<u>T. pannosus</u>										
EARLY CRETACEOUS											
PRE-CRETACEOUS											

DINOFLAGELLATE ZONES.

COMMENTS:

Deflandrea heterophylcta Zone 6630(1) - 6688(2)Eisenackia crassitabulata Zone 9250(2)

- RATINGS: 0; SWC or CORE, EXCELLENT CONFIDENCE, assemblage with zone species of spores, pollen and microplankton.
- 1; SWC or CORE, GOOD CONFIDENCE, assemblage with zone species of spores and pollen or microplankton.
- 2; SWC or CORE, POOR CONFIDENCE, assemblage with non-diagnostic spores, pollen and/or microplankton.
- 3; CUTTINGS, FAIR CONFIDENCE, assemblage with zone species of either spore and pollen or microplankton, or both.
- 4; CUTTINGS, NO CONFIDENCE, assemblage with non-diagnostic spores, pollen and/or microplankton.

NOTE: If a sample cannot be assigned to one particular zone, then no entry should be made. Also, if an entry is given a 3 or 4 confidence rating, an alternate depth with a better confidence rating should be entered, if possible.

DATA RECORDED BY: L.E.S./A.D.P.DATE June 1971; Dec. 1971.DATA REVISED BY: A.D.P.DATE January 1975.

BASIN

GIPPSLAND

DATE

June 1971

WELL NAME

SALMON -1

ELEVATION

+99 feet

AGE	PALYNOLOGIC ZONES	HIGHEST DATA				LOWEST DATA					
		Preferred Depth	Rtg	Alternate Depth	Rtg	2 way time	Preferred Depth	Rtg.	Alternate Depth	Rtg.	2 way time
L. O- MIOC.	<u>T. bellus</u>										
	<u>P. tuberculatus</u>										
EOCENE	<u>U. N. asperus</u>										
	<u>L. N. asperus</u>	6595 ⁶⁴⁹⁵	2			1422	6710 ⁶⁵¹¹	4			1493
	<u>P. asperopolus</u>	6888 ⁶⁷⁸¹	1			1481	6888 ⁶⁷⁸¹	1			1451
	<u>U. M. diversus</u>	7040 ⁶⁹⁴¹	1			1511	7310 ⁽⁷²¹¹⁾	2	7220 ⁷¹²¹	1	1551
	<u>L. M. diversus</u>	7640 ⁷⁵⁴¹	2			1614	7844 ⁽⁷⁷⁴⁵⁾	2			1648
	<u>L. balmei</u>	8008 ⁷⁹⁰⁹	1			1677	9250 ⁹¹⁵¹	2			1887
PALEO- CENE	<u>T. longus</u>										
	<u>T. lilliei</u>										
LATE CRETACEOUS	<u>N. senectus</u>										
	<u>C. trip./T. pach.</u>										
	<u>C. distocarin.</u>										
	<u>T. pannosus</u>										
	<u>C. paradoxa</u>										
EARLY CRETACEOUS	<u>C. striatus</u>										
	<u>U. C. hughesii</u>										
	<u>L. C. hughesii</u>										
	<u>C. stylosus</u>										
Pre-Cretaceous											

COMMENTS: Samples below 8008 feet contain too few specimens for reliable interpretation; additional processing required.

T.D. 9855 (2.156)

- RATINGS: 0; SWC or CORE, EXCELLENT CONFIDENCE, assemblage with zone species of spores, pollen and microplankton.
 1; SWC or CORE, GOOD CONFIDENCE, assemblage with zone species of spores and pollen or microplankton.
 2; SWC or CORE, POOR CONFIDENCE, assemblage with non-diagnostic spores, pollen and/or microplankton.
 3; CUTTINGS, FAIR CONFIDENCE, assemblage with zone species of either spores and pollen or microplankton, or both.
 4; CUTTINGS, NO CONFIDENCE, assemblage with non-diagnostic spores, pollen and/or microplankton.

NOTE: If a sample cannot be assigned to one particular zone, then no entry should be made. Also, if an entry is given a 3 or 4 confidence rating, an alternate depth with a better confidence rating should be entered, if possible.

DATE RECORDED BY: L.E. Stover / A.D. Partridge. DATE June 1971

DATA REVISED BY: CHECKED: L.E.S. DATE Dec. 1971

BASIN GIPPSLAND BASIN

BY David TAYLOR

WELL NAME SALMON-1

DATE 20 April 1971

ELEV. +99'

Foram Zonules

		Highest Data	Quality	2 Way Time	Lowest Data	Quality	2 Way Time
MIOCENE	A	Alternate					
	B	Alternate			2100	3	
	C	2150	3		3100	2	
	D ₁	Alternate	3200	3	5000	3	
	D ₂	Alternate	5120	1	5500	3	
	E	Alternate	5602	1	5602	1	
	F	Alternate	5700	3			
	G	Alternate			6030	3	
	H ₁	Alternate	6030	1			
	H ₂	Alternate			6150	3	
	OLIGOCENE	I ₁	Alternate	6200	3		
I ₂		Alternate			6416	1	
J ₁		Alternate	6496	1	6555	1	
J ₂		Alternate					
EOC.	K	Alternate					
	Pre K						

COMMENTS:

Note: If highest or lowest data is a 3 or 4, then an alternate 0, 1, 2 highest or lowest data will be filled in if control is available.

If a sample cannot be interpreted to be one zonule, as apart from the other, no entry should be made.

- 0 SWC or Core - Complete assemblage (very high confidence).
- 1 SWC or Core - Almost complete assemblage (high confidence).
- 2 SWC or Core - Close to zonule change but able to interpret (low confidence).
- 3 Cuttings - Complete assemblage (low confidence).
- 4 Cuttings - Incomplete assemblage, next to uninterpretable or SWC with depth suspicion (very low confidence).

Date Revised _____

By _____

OTHER DATA

03 MAR 1987

2. THE STUDY AREA

The primary objective of the study area was the graticular block to the northeast of the Bream Field, the block containing the Salmon-1 well. The study encompassed all of the Northeast Bream grid of the G84A survey, which extends well past the limits of the VIC/P1 block.

The main target of the interpretation was the "Northeast Bream nose", which extends from the Bream Field in the southwest to Swordfish-1 in the northeast.

The "Northeast Bream nose" lies between the two major central Gippsland Basin synclines. Critical dip directions along the nose are to the northeast and southwest.

3. THE MIOCENE "HIGH VELOCITY" CHANNELS

The study area is traversed by a major NNW-SSE trending Miocene "high velocity" channel and by a N-S trending tributary channel to this main channel. The tributary channel is sub-parallel to the "Northeast Bream nose".

The major channel is 11-15 kilometres wide and 700 metres deep. The "tributary" channel is approximately 3.5 kilometres wide and 200 metres deep. The sides of both channels typically slope at 6 to 11°.

There are numerous other smaller Miocene channels, which both pre-date and post-date the major channel. Many of these also exhibit significant velocity contrasts to the surrounding sediments.

4. DRILLING HISTORY

Cod-1 was drilled in 1965 to test a large Top of Latrobe time closure. A two-way time "pull-up" associated with a broad, overlying Miocene "high velocity" channel was not recognised pre-drill. The pre-drill structure maps show an anticline elongated NNW-SSE, coincident with the axis of the high velocity channel. The well was dry. The Central VIC/P1 study demonstrated that there is probably no closure present in the vicinity of Cod-1, that the anticline trends E-W and that it is part of a nose opening to the Martin Field

Salmon-1 was drilled in 1969. It tested an apparent high side fault closure. The overlying "high velocity" channel was recognised pre-drill and it was noted in the A to D that the axis of the channel passed directly over the Salmon Prospect. The interpretation at the time was that part of the time closure was due to the existence of a closure in depth. The top of Latrobe was 60m deep to prediction and the well was dry. It appears to have been drilled outside closure at the top of Latrobe.

The velocity analysis in the central basin area was then thoroughly reworked using Esso Australia's "VELPACK" and in 1977 Swordfish-1 was drilled, to test an apparently closed lowside rollover associated with the fault to the northeast of Salmon-1. The velocity gradient due to the "high velocity" channel was interpreted to have displaced the 2WT crest 2.5 km to the SW of the structural crest. The well was dry and the Top of Latrobe was 60m deep to prediction. The measured well velocity was 110 m/sec higher than predicted. Incorporation of this higher velocity in the post-drill interpretation showed that little or no closure was present at the top of Latrobe.

Veilfin-1 was drilled in 1984. It tested the updip potential from Salmon-1, in the area below the eastern flank of the "high velocity" channel. Three independent pre-drill depth conversion methods predicted the presence of significant closure updip from Salmon-1. The well was 39m deep to prediction at the top of "coarse clastics", eliminating any updip potential from Salmon-1 at the Veilfin-1 location. All three methods of depth prediction had failed to adequately compensate for the two-way time "pull-up" at the top of "coarse clastics". Nevertheless there were some deep intra-Latrobe hydrocarbon shows in Veilfin-1. These are discussed in the next section.

5. HYDROCARBON SHOWS

The Bream Field is to the southwest of the Northeast Bream study area. The Bream Field hydrocarbons are reservoired primarily at the top of the Latrobe Group "coarse clastics". The total "coarse clastics" hydrocarbon column is 122m, comprising a 13m oil column and a 109m gas column. Other hydrocarbon shows of relevance to this report were encountered within the Latrobe Group at Bream-2, Bream-3, Bream-5 and Veilfin-1. They are summarised below:

White Reflectance
Amoco. 22 APR 1986

Depth (ft)	Mean Maximum Reflectance (%)	Standard Deviation	Range	Number of Determinations
<u>MARLIN-1</u>				
7070-7080	0.65	0.08	0.52-0.80	32
7497-7501	0.65	0.04	0.54-0.72	38
7780-7800	0.67	0.09	0.47-0.88	39
8230-8240	0.71	0.07	0.64-0.79	4
8455-8461	0.70	0.06	0.56-0.79	32
<u>NANNYGAI-1</u>				
7760-7670	0.052	0.07	0.39-0.65	33
8320-8340	0.50	0.05	0.42-0.65	32
9450-9470	0.64	0.04	0.57-0.71	35
9860-9880	0.64	0.06	0.51-0.75	31
<u>SALMON-1</u>				
7670-7690	0.50	0.06	0.38-0.64	35
8030-8050	0.56	0.05	0.45-0.67	37
8860	0.60	0.05	0.45-0.67	33
9250-9260	0.64	0.06	0.54-0.79	36
9856-9862	0.80	0.05	0.68-0.87	37
<u>SNAPPER-1</u>				
7280-7300	0.56	0.06	0.43-0.69	37
7754-7760	0.56	0.09	0.38-0.73	38
9254-9257	0.68	0.03	0.60-0.72	33
9900-9903	0.86	0.10	0.62-0.96	17
10140-10200	0.81	0.10	0.58-1.01	31
10495-10507	0.99	0.06	0.81-1.06	35

ENCLOSURES

PE906362

This is an enclosure indicator page.
The enclosure PE906362 is enclosed within the
container PE906356 at this location in this
document.

The enclosure PE906362 has the following characteristics:

- ITEM_BARCODE = PE906362
- CONTAINER_BARCODE = PE906356
 - NAME = Species List, 1 of 4
 - BASIN = GIPPSLAND
 - PERMIT = VIC/P1
 - TYPE = WELL
 - SUBTYPE = DIAGRAM
 - DESCRIPTION = Foraminifera Species List for Salmon-1,
1 of 4
- REMARKS =
- DATE_CREATED =
- DATE_RECEIVED =
 - W_NO = W541
 - WELL_NAME = SALMON-1
- CONTRACTOR =
- CLIENT_OP_CO = ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE906363

This is an enclosure indicator page.
The enclosure PE906363 is enclosed within the
container PE906356 at this location in this
document.

The enclosure PE906363 has the following characteristics:

ITEM_BARCODE = PE906363
CONTAINER_BARCODE = PE906356
 NAME = Species List, 2 of 4
 BASIN = GIPPSLAND
 PERMIT = VIC/P1
 TYPE = WELL
 SUBTYPE = DIAGRAM
 DESCRIPTION = Foraminifera Species List for Salmon-1,
 2 of 4
 REMARKS =
 DATE_CREATED =
 DATE_RECEIVED =
 W_NO = W541
 WELL_NAME = SALMON-1
 CONTRACTOR =
 CLIENT_OP_CO = ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE906364

This is an enclosure indicator page.
The enclosure PE906364 is enclosed within the
container PE906356 at this location in this
document.

The enclosure PE906364 has the following characteristics:

- ITEM_BARCODE = PE906364
- CONTAINER_BARCODE = PE906356
 - NAME = Species List, 3 of 4
 - BASIN = GIPPSLAND
 - PERMIT = VIC/P1
 - TYPE = WELL
 - SUBTYPE = DIAGRAM
- DESCRIPTION = Foraminifera Species List for Salmon-1,
3 of 4
- REMARKS =
- DATE_CREATED =
- DATE_RECEIVED =
- W_NO = W541
- WELL_NAME = SALMON-1
- CONTRACTOR =
- CLIENT_OP_CO = ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE906365

This is an enclosure indicator page.
The enclosure PE906365 is enclosed within the
container PE906356 at this location in this
document.

The enclosure PE906365 has the following characteristics:

- ITEM_BARCODE = PE906365
- CONTAINER_BARCODE = PE906356
 - NAME = Species List, 4 of 4
 - BASIN = GIPPSLAND
 - PERMIT = VIC/P1
 - TYPE = WELL
 - SUBTYPE = DIAGRAM
 - DESCRIPTION = Foraminifera Species List for Salmon-1,
4 of 4
- REMARKS =
- DATE_CREATED =
- DATE_RECEIVED =
- W_NO = W541
- WELL_NAME = SALMON-1
- CONTRACTOR =
- CLIENT_OP_CO = ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE906366

This is an enclosure indicator page.
The enclosure PE906366 is enclosed within the
container PE906356 at this location in this
document.

The enclosure PE906366 has the following characteristics:

ITEM_BARCODE = PE906366
CONTAINER_BARCODE = PE906356
 NAME = Time-Depth Curve
 BASIN = GIPPSLAND
 PERMIT = VIC/P1
 TYPE = WELL
 SUBTYPE = VELOCITY_CHART
DESCRIPTION = Time-Depth Curve (Interpretative) for
 Salmon-1
REMARKS =
DATE_CREATED = 1/09/71
DATE_RECEIVED =
 W_NO = W541
 WELL_NAME = SALMON-1
CONTRACTOR =
CLIENT_OP_CO = ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE603760

This is an enclosure indicator page.
The enclosure PE603760 is enclosed within the
container PE906356 at this location in this
document.

The enclosure PE603760 has the following characteristics:

ITEM_BARCODE = PE603760
CONTAINER_BARCODE = PE906356
NAME = Well Completion Log
BASIN = GIPPSLAND
PERMIT = VIC/P1
TYPE = WELL
SUBTYPE = COMPLETION_LOG
DESCRIPTION = Well Completion Log for Salmon-1
REMARKS =
DATE_CREATED = 15/02/69
DATE_RECEIVED =
W_NO = W541
WELL_NAME = SALMON-1
CONTRACTOR =
CLIENT_OP_CO = ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE603761

This is an enclosure indicator page.
The enclosure PE603761 is enclosed within the
container PE906356 at this location in this
document.

The enclosure PE603761 has the following characteristics:

- ITEM_BARCODE = PE603761
- CONTAINER_BARCODE = PE906356
 - NAME = Continuous Dipmeter Log
 - BASIN = GIPPSLAND
 - PERMIT = VIC/P1
 - TYPE = WELL
 - SUBTYPE = WELL_LOG
- DESCRIPTION = Continuous Dipmeter Log for Salmon-1
- REMARKS =
- DATE_CREATED = 9/02/69
- DATE_RECEIVED =
 - W_NO = W541
 - WELL_NAME = SALMON-1
- CONTRACTOR = SCHLUMBERGER
- CLIENT_OP_CO = ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE603762

This is an enclosure indicator page.
The enclosure PE603762 is enclosed within the
container PE906356 at this location in this
document.

The enclosure PE603762 has the following characteristics:

- ITEM_BARCODE = PE603762
- CONTAINER_BARCODE = PE906356
 - NAME = Mud Log 1 of 20
 - BASIN = GIPPSLAND
 - PERMIT = VIC/P1
 - TYPE = WELL
 - SUBTYPE = MUD_LOG
- DESCRIPTION = Mud Log of Salmon-1, 1 of 20
- REMARKS =
- DATE_CREATED = 15/02/69
- DATE_RECEIVED =
 - W_NO = W541
 - WELL_NAME = SALMON-1
- CONTRACTOR = CORE LABORATORIES
- CLIENT_OP_CO = ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE603763

This is an enclosure indicator page.
The enclosure PE603763 is enclosed within the
container PE906356 at this location in this
document.

The enclosure PE603763 has the following characteristics:

ITEM_BARCODE = PE603763
CONTAINER_BARCODE = PE906356
 NAME = Mud Log 2 of 20
 BASIN = GIPPSLAND
 PERMIT = VIC/P1
 TYPE = WELL
 SUBTYPE = MUD_LOG
 DESCRIPTION = Mud Log of Salmon-1, 2 of 20
 REMARKS =
 DATE_CREATED = 15/02/69
 DATE_RECEIVED =
 W_NO = W541
 WELL_NAME = SALMON-1
 CONTRACTOR = CORE LABORATORIES
 CLIENT_OP_CO = ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE603764

This is an enclosure indicator page.
The enclosure PE603764 is enclosed within the
container PE906356 at this location in this
document.

The enclosure PE603764 has the following characteristics:

- ITEM_BARCODE = PE603764
- CONTAINER_BARCODE = PE906356
 - NAME = Mud Log 3 of 20
 - BASIN = GIPPSLAND
 - PERMIT = VIC/P1
 - TYPE = WELL
 - SUBTYPE = MUD_LOG
- DESCRIPTION = Mud Log of Salmon-1, 3 of 20
- REMARKS =
- DATE_CREATED = 15/02/69
- DATE_RECEIVED =
 - W_NO = W541
 - WELL_NAME = SALMON-1
- CONTRACTOR = CORE LABORATORIES
- CLIENT_OP_CO = ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE603765

This is an enclosure indicator page.
The enclosure PE603765 is enclosed within the
container PE906356 at this location in this
document.

The enclosure PE603765 has the following characteristics:

- ITEM_BARCODE = PE603765
- CONTAINER_BARCODE = PE906356
 - NAME = Mud Log 4 of 20
 - BASIN = GIPPSLAND
 - PERMIT = VIC/P1
 - TYPE = WELL
 - SUBTYPE = MUD_LOG
- DESCRIPTION = Mud Log of Salmon-1, 4 of 20
- REMARKS =
- DATE_CREATED = 15/02/69
- DATE_RECEIVED =
 - W_NO = W541
 - WELL_NAME = SALMON-1
- CONTRACTOR = CORE LABORATORIES
- CLIENT_OP_CO = ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE603766

This is an enclosure indicator page.
The enclosure PE603766 is enclosed within the
container PE906356 at this location in this
document.

The enclosure PE603766 has the following characteristics:

- ITEM_BARCODE = PE603766
- CONTAINER_BARCODE = PE906356
 - NAME = Mud Log 5 of 20
 - BASIN = GIPPSLAND
 - PERMIT = VIC/P1
 - TYPE = WELL
 - SUBTYPE = MUD_LOG
- DESCRIPTION = Mud Log of Salmon-1, 5 of 20
- REMARKS =
- DATE_CREATED = 15/02/69
- DATE_RECEIVED =
 - W_NO = W541
 - WELL_NAME = SALMON-1
- CONTRACTOR = CORE LABORATORIES
- CLIENT_OP_CO = ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE603767

This is an enclosure indicator page.
The enclosure PE603767 is enclosed within the
container PE906356 at this location in this
document.

The enclosure PE603767 has the following characteristics:

- ITEM_BARCODE = PE603767
- CONTAINER_BARCODE = PE906356
 - NAME = Mud Log 6 of 20
 - BASIN = GIPPSLAND
 - PERMIT = VIC/P1
 - TYPE = WELL
 - SUBTYPE = MUD_LOG
- DESCRIPTION = Mud Log of Salmon-1, 6 of 20
- REMARKS =
- DATE_CREATED = 15/02/69
- DATE_RECEIVED =
 - W_NO = W541
 - WELL_NAME = SALMON-1
- CONTRACTOR = CORE LABORATORIES
- CLIENT_OP_CO = ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE603768

This is an enclosure indicator page.
The enclosure PE603768 is enclosed within the
container PE906356 at this location in this
document.

The enclosure PE603768 has the following characteristics:

ITEM_BARCODE = PE603768
CONTAINER_BARCODE = PE906356
 NAME = Mud Log 7 of 20
 BASIN = GIPPSLAND
 PERMIT = VIC/P1
 TYPE = WELL
 SUBTYPE = MUD_LOG
 DESCRIPTION = Mud Log of Salmon-1, 7 of 20
 REMARKS =
 DATE_CREATED = 15/02/69
 DATE_RECEIVED =
 W_NO = W541
 WELL_NAME = SALMON-1
 CONTRACTOR = CORE LABORATORIES
 CLIENT_OP_CO = ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE603769

This is an enclosure indicator page.
The enclosure PE603769 is enclosed within the
container PE906356 at this location in this
document.

The enclosure PE603769 has the following characteristics:

ITEM_BARCODE = PE603769
CONTAINER_BARCODE = PE906356
NAME = Mud Log 8 of 20
BASIN = GIPPSLAND
PERMIT = VIC/P1
TYPE = WELL
SUBTYPE = MUD_LOG
DESCRIPTION = Mud Log of Salmon-1, 8 of 20
REMARKS =
DATE_CREATED = 15/02/69
DATE_RECEIVED =
W_NO = W541
WELL_NAME = SALMON-1
CONTRACTOR = CORE LABORATORIES
CLIENT_OP_CO = ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE603770

This is an enclosure indicator page.
The enclosure PE603770 is enclosed within the
container PE906356 at this location in this
document.

The enclosure PE603770 has the following characteristics:

ITEM_BARCODE = PE603770
CONTAINER_BARCODE = PE906356
 NAME = Mud Log 9 of 20
 BASIN = GIPPSLAND
 PERMIT = VIC/P1
 TYPE = WELL
 SUBTYPE = MUD_LOG
DESCRIPTION = Mud Log of Salmon-1, 9 of 20
REMARKS =
DATE_CREATED = 15/02/69
DATE_RECEIVED =
 W_NO = W541
 WELL_NAME = SALMON-1
CONTRACTOR = CORE LABORATORIES
CLIENT_OP_CO = ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE603771

This is an enclosure indicator page.
The enclosure PE603771 is enclosed within the
container PE906356 at this location in this
document.

The enclosure PE603771 has the following characteristics:

- ITEM_BARCODE = PE603771
- CONTAINER_BARCODE = PE906356
 - NAME = Mud Log 10 of 20
 - BASIN = GIPPSLAND
 - PERMIT = VIC/P1
 - TYPE = WELL
 - SUBTYPE = MUD_LOG
- DESCRIPTION = Mud Log of Salmon-1, 10 of 20
- REMARKS =
- DATE_CREATED = 15/02/69
- DATE_RECEIVED =
 - W_NO = W541
 - WELL_NAME = SALMON-1
- CONTRACTOR = CORE LABORATORIES
- CLIENT_OP_CO = ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE603772

This is an enclosure indicator page.
The enclosure PE603772 is enclosed within the
container PE906356 at this location in this
document.

The enclosure PE603772 has the following characteristics:

- ITEM_BARCODE = PE603772
- CONTAINER_BARCODE = PE906356
 - NAME = Mud Log 11 of 20
 - BASIN = GIPPSLAND
 - PERMIT = VIC/P1
 - TYPE = WELL
 - SUBTYPE = MUD_LOG
- DESCRIPTION = Mud Log of Salmon-1, 11 of 20
- REMARKS =
- DATE_CREATED = 15/02/69
- DATE_RECEIVED =
 - W_NO = W541
 - WELL_NAME = SALMON-1
- CONTRACTOR = CORE LABORATORIES
- CLIENT_OP_CO = ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE603773

This is an enclosure indicator page.
The enclosure PE603773 is enclosed within the
container PE906356 at this location in this
document.

The enclosure PE603773 has the following characteristics:

ITEM_BARCODE = PE603773
CONTAINER_BARCODE = PE906356
 NAME = Mud Log 12 of 20
 BASIN = GIPPSLAND
 PERMIT = VIC/P1
 TYPE = WELL
 SUBTYPE = MUD_LOG
 DESCRIPTION = Mud Log of Salmon-1, 12 of 20
 REMARKS =
 DATE_CREATED = 15/02/69
 DATE_RECEIVED =
 W_NO = W541
 WELL_NAME = SALMON-1
 CONTRACTOR = CORE LABORATORIES
 CLIENT_OP_CO = ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE603774

This is an enclosure indicator page.
The enclosure PE603774 is enclosed within the
container PE906356 at this location in this
document.

The enclosure PE603774 has the following characteristics:

ITEM_BARCODE = PE603774
CONTAINER_BARCODE = PE906356
 NAME = Mud Log 13 of 20
 BASIN = GIPPSLAND
 PERMIT = VIC/P1
 TYPE = WELL
 SUBTYPE = MUD_LOG
 DESCRIPTION = Mud Log of Salmon-1, 13 of 20
 REMARKS =
 DATE_CREATED = 15/02/69
 DATE_RECEIVED =
 W_NO = W541
 WELL_NAME = SALMON-1
 CONTRACTOR = CORE LABORATORIES
 CLIENT_OP_CO = ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE603775

This is an enclosure indicator page.
The enclosure PE603775 is enclosed within the
container PE906356 at this location in this
document.

The enclosure PE603775 has the following characteristics:

ITEM_BARCODE = PE603775
CONTAINER_BARCODE = PE906356
NAME = Mud Log 14 of 20
BASIN = GIPPSLAND
PERMIT = VIC/P1
TYPE = WELL
SUBTYPE = MUD_LOG
DESCRIPTION = Mud Log of Salmon-1, 14 of 20
REMARKS =
DATE_CREATED = 15/02/69
DATE_RECEIVED =
W_NO = W541
WELL_NAME = SALMON-1
CONTRACTOR = CORE LABORATORIES
CLIENT_OP_CO = ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE603776

This is an enclosure indicator page.
The enclosure PE603776 is enclosed within the
container PE906356 at this location in this
document.

The enclosure PE603776 has the following characteristics:

ITEM_BARCODE = PE603776
CONTAINER_BARCODE = PE906356
 NAME = Mud Log 15 of 20
 BASIN = GIPPSLAND
 PERMIT = VIC/P1
 TYPE = WELL
 SUBTYPE = MUD_LOG
 DESCRIPTION = Mud Log of Salmon-1, 15 of 20
 REMARKS =
 DATE_CREATED = 15/02/69
 DATE_RECEIVED =
 W_NO = W541
 WELL_NAME = SALMON-1
 CONTRACTOR = CORE LABORATORIES
 CLIENT_OP_CO = ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE603777

This is an enclosure indicator page.
The enclosure PE603777 is enclosed within the
container PE906356 at this location in this
document.

The enclosure PE603777 has the following characteristics:

ITEM_BARCODE = PE603777
CONTAINER_BARCODE = PE906356
 NAME = Mud Log 16 of 20
 BASIN = GIPPSLAND
 PERMIT = VIC/P1
 TYPE = WELL
 SUBTYPE = MUD_LOG
 DESCRIPTION = Mud Log of Salmon-1, 16 of 20
 REMARKS =
 DATE_CREATED = 15/02/69
 DATE_RECEIVED =
 W_NO = W541
 WELL_NAME = SALMON-1
 CONTRACTOR = CORE LABORATORIES
 CLIENT_OP_CO = ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE603778

This is an enclosure indicator page.
The enclosure PE603778 is enclosed within the
container PE906356 at this location in this
document.

The enclosure PE603778 has the following characteristics:

ITEM_BARCODE = PE603778
CONTAINER_BARCODE = PE906356
 NAME = Mud Log 17 of 20
 BASIN = GIPPSLAND
 PERMIT = VIC/P1
 TYPE = WELL
 SUBTYPE = MUD_LOG
 DESCRIPTION = Mud Log of Salmon-1, 17 of 20
 REMARKS =
 DATE_CREATED = 15/02/69
 DATE_RECEIVED =
 W_NO = W541
 WELL_NAME = SALMON-1
 CONTRACTOR = CORE LABORATORIES
 CLIENT_OP_CO = ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE603779

This is an enclosure indicator page.
The enclosure PE603779 is enclosed within the
container PE906356 at this location in this
document.

The enclosure PE603779 has the following characteristics:

ITEM_BARCODE = PE603779
CONTAINER_BARCODE = PE906356
 NAME = Mud Log 18 of 20
 BASIN = GIPPSLAND
 PERMIT = VIC/P1
 TYPE = WELL
 SUBTYPE = MUD_LOG
 DESCRIPTION = Mud Log of Salmon-1, 18 of 20
 REMARKS =
 DATE_CREATED = 15/02/69
 DATE_RECEIVED =
 W_NO = W541
 WELL_NAME = SALMON-1
 CONTRACTOR = CORE LABORATORIES
 CLIENT_OP_CO = ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE603780

This is an enclosure indicator page.
The enclosure PE603780 is enclosed within the
container PE906356 at this location in this
document.

The enclosure PE603780 has the following characteristics:

- ITEM_BARCODE = PE603780
- CONTAINER_BARCODE = PE906356
- NAME = Mud Log 19 of 20
- BASIN = GIPPSLAND
- PERMIT = VIC/P1
- TYPE = WELL
- SUBTYPE = MUD_LOG
- DESCRIPTION = Mud Log of Salmon-1, 19 of 20
- REMARKS =
- DATE_CREATED = 15/02/69
- DATE_RECEIVED =
- W_NO = W541
- WELL_NAME = SALMON-1
- CONTRACTOR = CORE LABORATORIES
- CLIENT_OP_CO = ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE603781

This is an enclosure indicator page.
The enclosure PE603781 is enclosed within the
container PE906356 at this location in this
document.

The enclosure PE603781 has the following characteristics:

- ITEM_BARCODE = PE603781
- CONTAINER_BARCODE = PE906356
 - NAME = Mud Log 20 of 20
 - BASIN = GIPPSLAND
 - PERMIT = VIC/P1
 - TYPE = WELL
 - SUBTYPE = MUD_LOG
- DESCRIPTION = Mud Log of Salmon-1, 20 of 20
- REMARKS =
- DATE_CREATED = 15/02/69
- DATE_RECEIVED =
 - W_NO = W541
 - WELL_NAME = SALMON-1
- CONTRACTOR = CORE LABORATORIES
- CLIENT_OP_CO = ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)