

Natural Resources and Environment

AGRICULTURE • RESOURCES • CONSERVATION • LAND MANAGEMENT



MACKEREL -2 WELL SUMMARY

OFFSHORE

C.B.

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FILE COVER INSTRUCTIONS FOR ACTION OFFICERS

REGISTRY MUST BE NOTIFIED OF ANY FILE MOVEMENTS BETWEEN OFFICERS

- FOLIO NUMBERS: Each subject paper attached to a file is to be given a consecutive number by the attaching officer. Papers must not be removed from or attached to a file without approval.
 REFERRAL TO OTHER OFFICERS: When an Officer continuous continuous the file and further action in
- completes action on the file and further action is required by some other Officer, please initial Column (4) and on the next vacant line, enter the relevant folio number in Column (1), indicate to whom the file is to be forwarded in Column (2) and record the date in
- (3) BRING UP MARKINGS: When action on a file is required at a later date, the officer will initial Column (4) and, on the next vacant line, enter the relevant folio number in Column (1), then write "B/U" followed by the action officer's name in Column (2) and the date the file is required in Column (3).
- (4) PUTAWAY MARKINGS: When ALL action on a file is completed the officer concerned will initial Column (4)

and, on the next vacant line, write "P/A" in column (2).

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LATER FILES

EARLIER FILES

RECORDS DISPOSITION

MACKEREL-2

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 - 5.4 Drilling Data Record "d" Exponent and K_f = Apparent Formation Drillability

COMPLETION REPORT

I WELL DATA RECORD

DateApril 11, 1972.

LOCATION

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J.M. MACONOCHIE Engineer

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SUBSURFACE COMPLETION EQUIPMENT

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J.M. MACONOCHIE Engineer

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840-8505	Cuttings (Washed & Dryed)	Sampled every 10 ft.	7752-78 7778 - 7810	Core # 6 # 7	3' 18'
840-8505	Cuttings (Sacked unwashed)	Sampled every 10 ft.	7810-7817 7817-41	# 8 # 9	12'
840-8505	Cuttings (canned)	Sampled every 100 ft.	7841-74 7874-99	# 10 # 11	33' 25'
3000-8465	Sidewall cores	Attempted 82 Recovered 75	7899-7939 7939-46	# 12 #13	10' 1'6"
7586-7619	Conventional core # 1	.211			
7619-46	Core # 2	4 '	G		1
7648-92	∦ 3	1'2"			$\begin{bmatrix} a \end{bmatrix}$
7692-7722	# 4	316"			
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Mid Miocene Marker	7110	-7078				
01igocene	7315	-7283			·	
Top Latrobe Group	7578	-7546	316		316	7578-7894
L. <u>balmei</u> Zone	8040	-8008				местин
1		,				

GEOLOGIC ANALYSIS (Pre Drilling prognosis Vs actual results)

Pre-drill. Re-interpretation of the Mackerel structure indicated the Mackerel-1 discovery well was drilled in a minor topographic depression on an irregular top latrobe topographic surface. Mackerel-2 was drilled to test the crestal area 1 mile south-west of Mackerel-1 where the top of the primary objective was expected 300' structurally higher than the discovery well.

Age	Formation	Formation Tops
	Water (depth)	(275)
Miocene	Gippsland Formation	-275'
Miocene	Mid Miocene seismic Marker	-7150'
Oligocene	•	-7450 '
Paleocene	Latrobe Group	- 7500'
PTD	·	-8500°

Depths from mean sea level; for drill depths add 32 feet.

Post-drill. The Mackerel-2 well confirmed the seismic interpretation of the Mackerel structure and the velocity to the top of the Latrobe was within 80'/sec of the previously interpreted value from velocity scans. As the well supported the interpretation of the structure only minimal changes were required in the immediate vicinity of the Mackerel-2 well and did not affect the interpretation of either of the south-westerly or north easterly fault blocks.

MACKEREL - 2

Attachments

Fig. 1. Structure map on Latrobe Group

Geologic Cross Section After Drilling

Completion Log

Paleontological summary

PE902788

This is an enclosure indicator page. The enclosure PE902788 is enclosed within the container PE904978 at this location in this document.

The enclosure PE902788 has the following characteristics:

ITEM_BARCODE = PE902788
CONTAINER_BARCODE = PE904978

NAME = Mackerel Prospect Structure Map Top

Latrobe group

BASIN = GIPPSLAND

PERMIT =

TYPE = SEISMIC

SUBTYPE = HRZN_CONTR_MAP

DESCRIPTION = Mackerel Prospect Structure Map Top

Latrobe group

REMARKS =

DATE_CREATED = 30/04/1972

DATE_RECEIVED =

 $W_NO = W642$

WELL_NAME = Mackerel-2

CONTRACTOR = ESSO CLIENT_OP_CO = ESSO

(Inserted by DNRE - Vic Govt Mines Dept)

PE902789

This is an enclosure indicator page. The enclosure PE902789 is enclosed within the container PE904978 at this location in this document.

The enclosure PE902789 has the following characteristics:

ITEM_BARCODE = PE902789
CONTAINER_BARCODE = PE904978

NAME = Geological Cross Section A-A' Mackerel

2 prospect

BASIN = GIPPSLAND

PERMIT =

TYPE = WELL

SUBTYPE = CROSS_SECTION

DESCRIPTION = Geological Cross Section A-A' Mackerel

2 prospect

REMARKS =

DATE_CREATED = 30/04/1972

DATE_RECEIVED =

 $W_NO = W642$

WELL_NAME = Mackerel-2

CONTRACTOR = ESSO CLIENT_OP_CO = ESSO

(Inserted by DNRE - Vic Govt Mines Dept)

PE603295

This is an enclosure indicator page. The enclosure PE603295 is enclosed within the container PE904978 at this location in this document.

The enclosure PE603295 has the following characteristics:

ITEM_BARCODE = PE603295
CONTAINER_BARCODE = PE904978

NAME = Well Completion Log

BASIN = GIPPSLAND PERMIT = VIC/L5

TYPE = WELL

SUBTYPE = COMPLETION_LOG

DESCRIPTION = Mackerel 2 Well Completion Log

REMARKS =

 $DATE_CREATED = 18/03/72$

DATE_RECEIVED =

 $W_NO = W642$

WELL_NAME = Mackerel-2

CONTRACTOR = Esso Exploration and Production

Australia INC

CLIENT_OP_CO = Esso Standard Oil (Australia) LTD.

(Inserted by DNRE - Vic Govt Mines Dept)

2.0 SAMPLE DESCRIPTIONS

O 1 OCT 1986 Bruce McKey

MACKEREL-2
Bruce McKay
February 19, 1972

20"	casing	set	at	814'	
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1080 - 1170

1290 - 1350

1710 - 1800

2100 - 2130

2130 - 2190

900 - 920	100% Limestone (calcarenite) white, grey, or skeletal fragments, medium to very coarse, mostly unconsolidated, some grey limestone, occasionally rounded to subrounded, medium to coarse quartz grains, clear-frosted. Forams, bryozoa, shell fragments, coral.
920 - 980	100% framework limestone, as above, gastropods

980 - 1020	80% Skeletal limestone, as above. 20% limestone, clear orange quartz grains and
	skeletal fragments in buff - orange limestone (micrific) matrix, not as strongly calcareous.

1020 - 50	100% limestone, white- light grey, skeletal,
	fine - medium grains with white calcareous
	cement, trace glauconite, large fossil fragments
	becoming rarer.

1050 - 80	100% Limestone as abov	e, very good porosity,
	abundant bryozoa.	

1170 - 1200	100% Limestone,	white-grey,	skelet a l,	fine-coarse
	as above, trace	g la uconite.		

100% Limestone, as above.

1200 - 1230	100% Limestone,	${\tt slightly}$	finer,	as a	bove.

1230 - 1290	100% Limestone,	(calcarenite)	as above.

1350 - 1410	100% Limestone,	as above,	increasing	grey	fraction.

100% Limestone, as above.

1410 -	1530	100% Limestone,	as above,	abundant bryozoa.
1.00	0.0	100% Timestone	white-ores	, skeletal fragments

1530 - 90	100% Limestone, white-grey, skeletal fragments,
	trace quartz grains.

1590 - 1710	100% Limestones,	as above,	trace	clear	calcite.
-------------	------------------	-----------	-------	-------	----------

1800 - 1830	100% Limestone, as above, some calcareous sand,
	trace quartz grains, unconsolidated - friable,
	white-grey-tan, fossil fragments, trace glauconite.

100% Limestone, as above.

	w g. b,,	,	•
-000	100% Limestone, as above especially forams.	ve, a bund a nt	skeletal material,

1860 - 2010	100% Limestone, as above, cement cavings common,
	Very little sample coming over shaker.

20 10 - 2100	100% Limestone,	as	above,	cement	common.

100% Limestone as above, (decrease in cement) increase in fine fraction, less porosity, better cemented.

		2/2
	2190 - 2220	100% Limestone (calcarenite) as above, increase in calcarenite rather than skeletal framework fragments.
	2220 - 50	50% Skeletal fragments. 50% Limestone, fine-medium grained, slightly marly, light grey, (detrital limestone).
	2250 - 2340	100% Limestone, skeletal, detrital, as above.
	2340 - 70	100% Limestone, becoming mainly detrital. More cement cavings.
	2370 - 2430	100% Limestone, white-grey, friable-firm, predominantly detrital with skeletal fragments, (bryozoa, forams common) rare quartz grains.
	2430 - 2520	100% Limestone, detrital, skeletal.
	2520 - 2640	100% Limestone, as above, glauconite common.
. 18	2640 - 70	100% Limestone (calcarenite) detrital and skeletal, white-grey, occasional grains.
arei.	2 670 - 2730	100% Limestone as above.
	2730 - 2760	100% Limestone as above.
		CHANGE OVER MUD TOFRESH WATER GEL.
	2760 - 2790	90% Limestone as above. 10% Calcareous mudstone - siltstone, light grey, calcareous with trace glauconite and black organic material.
	2 790 - 2820	80% Limestone as above. 20% Calcareous siltstone as above, tending to marl.
i Vert	2820 - 2850	As above.
	2850 - 2880	50% Limestone 50% Marl, slightly firm, calcareous.
	2880 – 2900	90% Limestone 10% Marl.

2900 - CIRCULATE BOTTOMS UP. POOH TO RUN 10-3/4" CASING.

MACKERE L-2

SAMPLE DESCRIPTIONS

J. Mebberson D. Gentile

Feb. '72.

2910' - 2940'	100% Gement.
2940' - 2970'	100% Cement.
2970' - 3000'	100% Limestone or marl (Sample mostly cement)
3000' - 3030'	100% Limestone as above (Sample mostly cement)
3030' - 3060'	100% Limestone as above (Sample mostly cement)
3060' - 3120'	Lost samples - possibly marl silt-dissolved.
3120' - 3180'	Samples consist of metal fragments and cement. Viscosity of mud raised to 41. Lithology probably unchanged (from drilling rate).
3180' - 3300'	As above samples consist mainly of cement and metal fragments traces of white limestone and quartz grains.
NOTE: -	Checked Desilter - Sample 100% Marl - light brown-grey, trace silty - very fine sandstone quartz with lithic grains, abundant microfossils (predominantly). Suspect clayey matrix is being dissolved and grains and microfossil material falling through shaker screen.
3300' - 3400'	As above 100% Marl - light - medium grey, very fossiliferous
3400' - 3500'	As above 100% Marl - slight drop in drilling rate.
3500' - 3600'	As above with slight siltiness. Drilling rate slightly erratic. Samples taken partially from desilter.
3600' - 3700'	Silty marl 100% as above.
3700' - 3850'	100% Marl, silty, light grey, very fine quartz grains, abundant microfossils.
3850' - 3880'	100% Marl, as above, firming up slightly, slightly coarser grained samples.
3880' - 4010'	Marl, light grey to light brown grey, increasingly silty with fine quartz grains, microfossils common.
4010' - 4100'	90% Marl as above and siltstone, light grey, traces of quartz calcareous (increase in sample over shaker, formation firming up?)
4100' - 4260'	Marl, light grey - light brown, very silty, as above (reasonably good samples over shaker) Decrease in microfossil content.
4260' - 4440'	100% Marl as above
4440' - 4500'	100% silty marl as above. Generally soft - some moderately firm.

	1
L-2 Descriptions.	
	4/
4500' - 4650'	100% Marl, silty, very calcareous, fine grained, light grey - light brown-grey, firm to soft, some microfossils, generally, as above.
4650' - 4710'	100% Marl as above.
4710' 4900'	100% Marl, light grey - light brown brey, silty-very silty, argillaceous, firm-soft, trace microfossils, grades to a dirty argillaceous limestone in part, (firmer light brown grey sample) (dolomite?).
4900' - 5070'	100% Marl, as above, no limestone, 4950 - Minor dolomite, light-medium brown, dense crypto-microxlline, concoidal fracture.
5070' - 5160'	100% Marl, light-medium grey, silty, calcareous, trace microfossils, very argillaceous, soft-firm in part.
5160' - 5340	100% Marl, light grey, silty, calcareous, microfossils, soft, as above.
5370'	100% Marl, light grey-medium grey, calcareous, very silty, argillaceous, medium-firm, microfossils.
5370' - 5470'	100% Marl, as above.
5470 ' - 5570 '	As above.
5570' - 5700'	100% Marl, light-medium grey (as above), soft-firm argillaceous, microfossiliferous/forams, silty, traces of quartz grains, very calcareous, (the lighter grey is gummy soft).
5700' - 5800'	Marl as above.
	Maril ac above

5800' - 5900' Marl as above.

5900' - 6000' Marl as above appears to be an increase in darker-medium grey marl, firm, <u>less</u> silty and microfossiliferous.

0' - 6260' Marl as above, predominantly dark-medium grey type as above.

6260'- 6400' Marl as above, soft light grey and mdedium-dark grey, firm.

6410' - 7650' Marl as above.

6940' - 6980'

Marl, light grey, soft, gummy, foramiferal, trace silty, and trace quartz grains and Mudstones - mdeium-dark grey, firm, trace silty, trace fossiliferous, (forams & pyritized stems noted, calcareous.

6900' - 6930' Marl and Mudstone - shale, as above.

Marl & Mudstone, as above with minor light brown buff limestone - skeletal detrital, silty and traces sandstone, light brown-buff, coarse quartz, subangular, very calcareous traces glauconite and pyrite (coarse quartz in limy matrix).

Drilling rate decrease > 80'/hr. to 40'/hr.)

Marl, light grey, soft gummy, foramiferal, silty, and mudstone medium grey - dark grey, firm silty calcareous, trace microfossils. With traces of coarse quartz, grains, subrounded, and light brown-buff limestone.

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6980' - 6990' (Circ. 6994')	60% Mudstone - Shale, medium-dark grey, firm to fissile trace silty, calcareous, trace microfossils, trace pyrite.
	40% Marl - light frey - soft gummy, microfollsiferous, (forams) silty and trace sandy, coarse, subrounded, quartz
	grains Traces looseunconsolidated coarse, pink-clear, subrounded subangular, quartz grains.
	75% Mudstone - Shale) as above trace pyritic, foraminiferal. 25% Marl huff tan brown dense and sandstone buff
6990' - 7000'	Trace limestone dull-tan brown (cavings?)
7000' - 7060'	as above, Mudstone - Shale - medium - dark grey. Marl - light grey, soft, gummy.
7060' - 7080'	Essentially Mudstone - Shale, as above * Traces of grey-green (first appearance) trace of limestone light brown-tan, silty, dense.
080' - 7140'	Shale medium - dark grey, firm-fissile, calcareous, silty, tr. forams. Minor marl - light grey, soft, gummy, foraminiferal.
7140' - 7160'	Shale as above. Increase in Marl light grey, trace coarse quartz grains.

7160' - 7170' (Circ. 7172') Traces limestone, light brown-buff, skeletal detrital, silty, hard, microgranular.

Feb. - March, '72

7172	Milling on junk and fishing - 10" iron bar and wiper rubber in steel ring.
	Pipe strapped in and out at 7172'.
	Tipe scrapped in and out at /1/2.
7170' - 7180'	100% shale, light - medium grained, calcareous, soft, trace glauconite.
7180' - 7190'	100% shale, as above.
7190' - 7200'	100% Shale, as above with trace light green. mottley shale
7200' - 7210'	100% Shale, as above with trace fine grained quartz.
7210' - 7240'	100% Shale, as above with trace fine grained sand & trace glauconite.
	Bit change at 7248'
7240' - 7250'	100% Shale - medium grained calcareous fissile, few forams.
7250' - 7260'	100% Shale, medium grained calcareous fissile, few forams.
7260' - 7270'	100% Shale - medium grained very calcareous, fissile, trace apple green shale, trace fine-medium graind round quartz.
7270' - 7280'	100% Shale, as above, trace fine grained sand.
7280' - 7290'	100% Shale, as above, trace fine grained sand.
7290' - 7300'	100% shale, as above, trace fine grained sand.
7300' - 7310'	100% Shale, as above, trace fine grained sand.
7310' - 7320'	100% Shale, as above, trace fine grained sand, with trace pyrite.
7320' - 7330'	100% Shale, as above, trace fine grained sand.
7330' - 7340'	100% Shale - medium grained, very calcareous, fissile, silty with trace fine grained loose quartz.
7340' - 50'	100% Shale, as above.
7350' - 7360'	100% Shale, as above, with trace fine-medium grained, loose sand.
7360' - 7370'	100% Shale, as above, with trace fine grained sand.
7370' - 7380'	60% Shale, as above.
	40% Marl, light grey, very soft, gummy, silty.
7380' - 7390'	60% Shale
	40% Mar1
7390' - 7400'	70% Shale as above, with trace glauconite.
7/001 7/101	30% Marl.
7400' - 7410'	70% Shale & 30% Marl as above.
7410' - 7420'	80% Shale
7420' - 7430'	20% Marl, silty, soft, gummy, trace fine grained loose sand.
7420 - 7430	80% Shale 20% Marl
7430' - 7440'	70% Shale
. 155 - 7440	30% Marl
7440' - 7480'	40% Shale
7400	60% Marl. Increase in Marl.
7480' - 7490'	90% Shale, medium grained, fissile, firm calcareous, trace fine grained sand.
	100/

10% Mar1

7490' - 7500 100% Shale

SAMPLE DESCRIPTIONS

D.Eyles

March 3, 1972

7/4

7500' - 7510'	100% Shale,	medium	grey,	firm,	fissile,	calcareous	pyrite.
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7510 - 7420' 100% Shale, medium grey, firm, fissile, calcareous, pyrite.

7520' - 7530' 100% Shale, as above.

7530' - 7540' 80% Shale

20% Marl

7540' - 7550' 100% Shale

7550' - 7580' 100% Shale as above, trace fine grained sand.

75**8**0' - 7585' 60% Shale

40% Sand, clean and frosty, white, coarse, unconsolidated,

TOP OF LATROBE quartz, subrounded to rounded, trace medium grained sandstone,

good cut, fair fluorescence.

Drillers depths are questionable due to error in pipe tally

Strap out depth 7586'.

2.1 CORE DESCRIPTIONS

CORE DESCRIPTION

Core No. 1

WELL: MACKEREL-2

Interval Cored 7586-7619 ft., Cut 33 ft., Recovered 21 ft., (64 %) Fm. LATROBE

Bit Type C-20 , Bit Size 815/32 in., Desc. by JRB & DE Date 4" MAR 72

	Depth & Coring Rate (min./ft.)	Graphic (1" = 5')	Shows	Interval (ft.)	Descriptive Lithology
2				7586- 89 7 5 89-95	Sand - frosty & clear white ytz, fine to coarse, subrnd to rnd, frighte, clear good fluor, odor, stain & cut. Good por & perm. Scattered dark gray grain chert(?). Massive, poorly sorted, without structures. Sand - as above, but fewer coarse grain
			\ \ \ \ \ \ \		frace mica
D				7595 - 7601	Sand - as above, but more coarse grains as 7586-89. Some massive pyrite & pyritic cement. Still Friable & easily broken with finger.
			• • • • • • • • • • • • • • • • • • •	7601-07	Sand — as above but coarser. Ranges m. to coarse, almost conglomeratic
	REMARKS:		nple R1	ample for El for overburden indicates 39° lis med brn	analysis (2")

CORE DESCRIPTION

Core No. 1 WELL: MACKEREL-2 Interval Cored 7586-76/9 ft., Cut 33 ft., Recovered 2/ ft., (64 %) Fm. LATROBE Bit Type C-20, Bit Size $8^{15/3}$ 2 in., Desc. by JRB & DRE Date 4 MAR 72 Depth & Coring Rate (min./ft.) Graphic (1" = 5') Shows interval (ft.) Descriptive Lithology ું છે **REMARKS:** waxed sample for EPRCO (4-5") Sample for overburden analysis (2")

CORE DESCRIPTION

Core No. 2 WELL: MACKEREL-2 ft., (15 %) Fm. LATROBE Interval Cored 7619-7646 ft., Cut 27 ft., Recovered 5" MAR '72 in., Desc. by JRB & DRE Bit Type C-20 , Bit Size 8 15/32 Depth & Coring Rate Descriptive Lithology Interval (ft.) Shows (min./ft.) Sand - Frosty wh & clear 9/2 subrad to 7619-21 rnd, good odor, fluor & cut, m to cse & V. cse gr., frioble Sand - Frosty wh & clear gtz, subrad rnd, f. to cree gr but f. gr predom, Some clay choking, less Friable than above, good fluor, odor & cut, much tighter than above 30 **REMARKS:** ← Waxed sample for EPRCO (4-5") « Sample for overburden analysis (2")

CORE DESCRIPTION

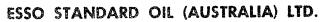
Core No. 2

Depth & Coring Rate (min./ft.)	Graphic (1" = 5')	Shows	Interval (ft.) Descriptive Lithology
2 4 6 8			

ESSO STANDARD OIL (AUSTRALIA) LTD. CORE DESCRIPTION

Core No. 3

WELL: MACKEREL-2 Interval Cored 7648-7692 ft., Cut 44 ft., Recovered 1'2" ft., (3 %) Fm. LATROBE Date 6" MAR' 72 8 15/32 in., Desc. by JRB & DRE Bit Type C-20 , Bit Size Depth & Coring Rate (min./ft.) Graphic Descriptive Lithology Sand - wh clear & frosty glz. subrad to 48 **0** rnd, friable, m. to cse gr., good fluor. cut and odor Siltstone - wh and dk gy, hard, sandy with fair fluor in patches, sol is yr, well indurated 65 REMARKS: Interval 7646-48 was drilled with bit to recover Waxed sample for EPRCO (4-5") Sample for overburden analysis (2")



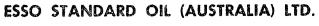
CORE DESCRIPTION

Core No. 3

WELL: MACKEREL-2

Interval Cored 7648-7692 ft., Cut 44 ft., Recovered 1'2" ft., (3 %) Fm. LATROBE

Bit Type C-20 , Bit Size 8 15/32 in., Desc. by JRB & DRE Date 6" MAR '72



CORE DESCRIPTION

Core No. 3

WELL: MACKEREL-2

Interval Cored 7648-7692 ft., Cut 44 ft., Recovered 1'2" ft., (3 %) Fm. LATROBE

Bit Type C-20 , Bit Size 8 15/32 in., Desc. by JRB & DRE Date 6" MAR 72

Depth & Coring Rate (min./ft.)		Graphic (1" = 5')	Shows	ows Interval (ft.)	Descriptive Lithology					
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CORE DESCRIPTION

Core No. 4

	Cori	pth ng l in./	Rate	•	Graphic (1" = 5')	Shows	Interval (ft.)	Descriptive Lithology
ō	(:	2 3		+		•	7692-9214	Shale - dk grey, hard, indurated, massi
-							769214-70	695/2 Sand - Frosty & clear wh subrand to
	1				.0.0.000			rnd gtz, f to use gr Poorly sort
	+-				7-2			with trace of mica. Good fluor, cup
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CORE DESCRIPTION

Core No. 4 WELL: MACKEREL-2 Interval Cored 7692-7722 ft., Cut 30 ft., Recovered 35 ft., (/2 %) Fm. LATROBE Date 6" MAR '72 Bit Type C-20, Bit Size $8^{15/3}$ 2 in., Desc. by JRB & DRE Depth & Coring Rate (min./ft.) Graphic (1" = 5") Interval (ft.) Shows **Descriptive Lithology** 771201 15 REMARKS:

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22

CORE DESCRIPTION

Core No. 5

N.B. CORRECTED 7720-7751. AFTER DESCRIBING ATTR.

WELL: MACKEREL #2

Interval Cored 7722-7752 ft., Cut 30' ft., Recovered 17' ft., (56 %) Fm. LATROBE.

Bit Type C-17. , Bit Size $8\frac{7}{16}/3$ in., Desc. by AJR. Date 8-3-72

Depth & Coring Rate (min./ft.)	Graphic (1" = 5')	Shows	Interval (ft.) Descriptive Lithology
02468	7722 mm	•	7722' - 7722' 2". SHALE: hard, massive, non-lamin dk gry. 1722' 2" - 7732' SANDSTONE: Consolidated,
	•	•	med to frosted, well to mod sorved,
	-26		grams 1-0 s a ; sandstone firm to hard , bleeding oil un part Tr. of
	28	•	pyrite à glauconite. Coarse grains define rough
	4—		Good - sporty blue fluorescence and blue-white cut
	30	•	tormared good φέκ. Increases un gr. size st towards base.
	33 	•	7732-7733'. SILTSTONE: un - C. gr. sandy in part - laminated, micaceous parts massive.
	34.		7733'-7738 (inc): SANDSTONE: Gen unconsolid. to soft, in to a graved some fines,
	36		ger m sorved, grains que r-osa. Tr glanc é pyr.
	1 38	•	Part's bleeding oil Ber massive Good due fluor é due vohite cut
	39		Edmared good & Erk
	No No TRECOVERY.		
REMARKS:	42		XED SAMPLE (4"-5") - to E.P.R.Co.
	44		AMPLE FOR PALAEO.
	Junk .	n h	ole runed new core head.

CORE DESCRIPTION

Core No. 5

WELL: MACKEREL#2

Interval Cored 7722-7752 ft., Cut 30 ft., Recovered 17 ft., (56 %) Fm. LATROBE

Bit Type C-17 , Bit Size 87/6/3 in., Desc. by A.J.R Date 8-3-72

Depth & oring Rate min./ft.)	Graphic (1" = 5')	Shows	Interval (ft.)	Descriptive Lithology
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CORE DESCRIPTION

Core No. 6

WELL: MACKEREL #2

Interval Cored 7752 -7778 ft., Cut 26 ft., Recovered 3 ft., (/2 %) Fm. LATROBE

Bit Type C-22 , Bit Size 81/6 × 5 in., Desc. by A.J.R. & A.D.P. Date 9.3.72

Depth & Coring Rate (min./ft.)	Graphic (1" = 5')	Shows	Interval (ft.)	Descriptive Lithology		
2468	7752 = 	•	pe Ya pr 7752'2"- med.	2'2" SHALE: medlight gry., with boles of qtz, biotite & glauconite, riation in gr size of pebbles oducing some laminations. 7753' SANDSTONE: Consolidated D c. grained, some v. coarse, fines, m. sorted; qtz gr. mainly		
	5 8		ckar glauc E	5.a → r, some angular. Abundant on ite & pyrite. Not laminated. Estimated good Ø € K. Good cut & blue flourescence. r. oil.		
	NO RECOVERY 62 ,		ξ ξ s	755' SANDSTONE: Consolidated & hard wed. gr. w/. abundant fines tending towards argillaceous. Poorle orted; qtz. grains mainly clear ome frosted 5.a - Dang. Abundant lauconite and pyrite. Thin to thick lamina. formed by variations		
	66		<u>)</u>	n gr. size w/ occassional thin irgillaceous bands Estimated good & and maybe		
	68			quite low K		
EMARKS:	44-	Samp	ole for overl	(4"-5") to E.P.R.Co purden analysis (2" cube) leo. cutting 26 feet of core.		

CORE DESCRIPTION

Core No. 6

WELL: MACKEREL #2

Interval	Cored	7752	<i>- 777</i>	8 ft.,	Cut	
111161 461	Colea		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,	COI	

26

ft., Recovered 3 ft., (12 %) Fm. LATROBE

in., Desc. by AJR & ADP Date 9.3.72 Bit Type...... Bit Size

Depth & Graphic (1" = 5')	Shows	Interval (ft.)	Descriptive Lithology
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RECOVERY		andre distribution of the second course of the seco	- Plant Mercus - 1 to the sale has higher via decise by a sale or each second mercus mechanics of the sale has been second or the
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CORE DESCRIPTION

Core No. 7

WELL: MACKEREL #2

Interval Cored 7778-7810 ft., Cut 32 ft., Recovered 21 ft., (%) Fm. LATROBE

Bit Type C-22 FD , Bit Size 87/16 4 in., Desc. by A.J.R z A.D.P. Date 9-3-72

Depth & Coring Rate (min./ft.)	Graphic (1" = 5')	Shows	Interval (ft.) Descriptive Lithology
2468	7718		
		0	7778-7781 SANDSTONE: Unconsolidated
	√		Friable for med ground with abordant
	<u>₹</u>		gines Extremely argillaceous un parts
	*** 2		with up to 30% clay: mod to poorly
			sorted orz grains mainly clear but
			some frosted, s.a to rounded; tr. to
	-82		occasionally abundant glave & pyr.
			Similar generally to basal 2' of
7	**	•	Core # 6 - with estimated fair to
	84 .		good of and maybe low to mod. K.
			Good floor (blue), good cut
			(blue-white) é +r of oil.
	-86		Strong odour of H2S.
	\sim		511519 08001 01 1120
	?		7781-7788 above although consolidated
	-88		Some parts show well-defined
			burrowing together with occ. shale
+	-	6	3
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	90		parkings.
	٠٠		7788-7795 9s for 7778-7781 - with
			quedichable presence of burrowing.
	92		guestonable presence of earneway.
			7795-7796 Qs for 7781-7788- consolida
_ _	4 ·		1195-196 45 701 (181-1180 438)
	\$		
	-94		* 0 -1 () ()
		•	* A strong odour of Has accompanied
			the whole of the core - but not known
	96		If only derwed from one section. a
	No		kick was registrered on HoS devection
	RECOVERY.		equipment both phorito, and during
1111	98	<u></u>	Corrig
EMARKS:)	Leconery	of a	21 uncluded 31 of cavings - semi-consolidated
blocks	of (?) h	akes	Entrance formation. This 3' is counted in the
recovery	, even	thou	igh only 18' of actual reservoir was recovered.
Samples	were	taker	, but the remainder was not retained as
part of	the co	re	2) - WAXED SAMPLE TO E.P.R.(0 (4-5")
•			SAMPLE FOR OVERBURDEN ANALYSIS.
~~~			SAMPLE FOR PALAGO.

# 2/2.

# ESSO STANDARD OIL (AUSTRALIA) LTD. CORE DESCRIPTION

Core No. 7

WELL: MACKEREL #2.

Interval Cored 7778-7810 ft., Cut 32 ft., Recovered 21

ft., ( ........ %) Fm. WATROBE

Bit Type C-22 FD , Bit Size 87/6/4 in., Desc. by AJREADP 9-3-72. Depth & Coring Rate (min./ft.) Graphic (1" = 5') Interval (ft.) **Descriptive Lithology** Shows 0 7798 7800 -7802 No RECOVERY. 7804 7806 - 7808 - 7810. **REMARKS:** 

# CORE DESCRIPTION

Core No. 8

WELL: MACKEREL #2

Interval Cored 78/0-78/7 ft., Cut 7 ft., Recovered 4 ft., (57%) Fm. LATROBE

Bit Type C-22FD , Bit Size 87/16/4 in., Desc. by AURS A.D.P Date 14-3-72

Depth & Coring Rate (min./ft.)	Graphic (1" = 5')	Shows	Interval (ft.)	Descriptive Lithology
02468	<b>78</b> /0		7810 - 7811	SANDSTONE: consolidated, c.gr. w/
	0.0.0	•	some	conglomeratic bands with publies up
	••••••••••••••••••••••••••••••••••••••			mm, and an absence of fines. Grains
	<del></del>			ed to sub-rounded, well sorted, mainly
				to white qtz. Micaceous - v. sl. pyritic
	/3		દ્યું. વા	
				stimated good & & K
	14			ood fluor (blue - white) & good blue -
	, 15 No			white cut.
	REGOVERY			
	16		7811 - 7814	SANDSTONE : unconsolidated to
	7817			consolidated, f> med. gr, mod. well
	, =			d grains rounded to sub-angular,
				· · · · · · · · · · · · · · · · · · ·
				scl. qtz, tr. mica, Appears to
				ine-grained equivalent of sand above
				around 7812'6" may be fine-
			)	ed angillaceous as for Core-]
				timate good & & K.
			<u> </u>	sod flour. of cut
			*	
	`		A disti	nct odour of HzS accompanied core.
				Elin Comment
	. •		and the second s	
				No.
REMARKS:	4-	WAX	ED SAMPLE	TO E.P.R.Co.
	44-			RBURDEN ANALYSIS.
				utting only 7 feet.
	The second secon		er menner – der den de den en e	
				» *

# CORE DESCRIPTION

Core No.

1/2

WELL: Mackerel -2

Interval Cored 7817 - 7841 ft., Cut 24 ft., Recovered 12 ft., (50 %) Fm. Latrobe

Bit Type Christensen 6-22 Bit Size 8 1/6" ×4 in., Desc. by JRB & AJM Date 14-3-72

	Depth & Coring Rate (min./ft.)	Graphic (1" = 5')	Shows	Interval (ft.)	Descriptive Lithology
170	2 4 6 8				
//			₩-	7817'-22' -	SANOSTONE Quartzose, frosty white & clear gns.  with scattered dark grey grains, medium  tocoarse grained, with coarse grains
20-			<b>←</b>		predominam (60/40) very poorly sorted, subrounded to rounded, clean, friable to very friable, very good \$ & K, good
			<b>←</b>	7822'- 29'	odour cut & fluorescence. No sedimentary structures apparent.  SANOSTONE: As above but grain size ranges from
25-			<b>←</b>	7022-29	sanostone: As above, but grain size ranges from  medium to very coarse, with coarse and  very coarse grains predommant (270/so).  Cood of & K, scattered dark grains (chert?)
			<u></u>	7829'-41'	NO RECOVERY
29-			*		
35-			K.R.		
L.	REMARKS:	CLATERIORY, THERESHIPS COTTONEY SAMERSON AND PRESENTATIONS OF THE	The same which the same was	20	
		- E.P.R.Co	. Sample	(4"-5")	
		— Overburg			
	* No od	our of H2	5 was	noted in this	
			etector	was used , but	failed to register
_	and de	95.			

# CORE DESCRIPTION

2/2.

9 Core No.

WELL: Mackeral - 2

Interval Cored 7817 - 7841 ft., Cut 24 ft., Recovered 12 ft., (50 %) Fm. Latrobe

(min./ 11.)	Graphic (1" = 5')	Shows	Interval (ft.)	Descriptive Lithology
2 4 6 8				
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				3,500
REMARKS:			-	
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## CORE DESCRIPTION

Core No. 10

WELL: MACKERAL -2

Interval Cored 784/ - 7874ft., Cut 33 ft., Recovered 33 ft., (100 %) Fm. Latrobe

Bit Type C-19 , Bit Size 8 1/8" X 4" in., Desc. by JRB \$ A.J.M. Date 15 - 4 - 72

Depth & G Coring Rate (min./ft.)	Graphic Shows	Interval (ft.)	Descriptive Lithology
11'0 5 10 15 20			
0.	6.0	7841-59	SANDSTONE - QUARTZOSE, CLEAN TO FROST WH
42	0.7		MED- CRSE & PEBBLY (UP TO 3 mm.)
0.			V. FRIABLE, POORLY SORTED, TR PYR-
1.0			ITE, TR MICA, TR Shale Pebbles,
++++++			CLEAN, PREDOM. CRSE G., CRSE
5			FRACTION WELL RND, MED FRACTION
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0,0	• • •	7859-64	1000
0	.0.0		SOME CRSE GRNS. POURLY SORTED  BUT MED. GRNS PREDOMINATE
			LESS, FRIAB. FAIR POR. A PERM.
0	7 🔫		TR MICH, TR SH PEBBLES AS ABOVE.
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DELABUS			
REMARKS:			
			FOR EPRO
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		A STATE OF THE PART OF THE PAR	
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### CORE DESCRIPTION

Core No. 10

WELL: MACKERA-Z ft., ( 100 %) Fm. LAT ROBE Interval Cored 784/- 7874 ft., Cut 33 ft., Recovered 33 Bit Type C-19, Bit Size 878" X 4" in., Desc. by JR8 & A.J.M Date 15-4-72 P6 2 OF 2 Depth & Graphic Coring Rate (min./ft.) Shows Interval (ft.) **Descriptive Lithology** HORZ. PEBBLY BAND OF WELL RND. OTZ WI GOOD POR BERM & FLYOR. SANDSTONE - CLEAR & FROSTY WHATE, SUB 65 END TO SUBANG W/ SITTY GRUS. NON CALC, NOW ARG., V. HAYd., TighT. & BLEEDING Yellowish BRN OIL, POOR PERM & POR, MANY CARB STREAKS, SEVERAL LEAF IMPRINTS & WOODY FIBER MATERIAL, SLIGHTLY LAMINATED, GOOD TO PATCHY FLUOR, GOOD CUT & ODOR, TR OF PYRITE 70 ASSOC. W/ LEAF & WOOD MATERIAL SANDSTONE - AS DESCRIBED FOR INTER 1841 -59' **REMARKS:** 

74

# **CORE DESCRIPTION**

1/2

Core No. 11

WELL: Mackerel - Z

Interval Cored 7874'-7899 ft., Cut 25' ft., Recovered 25' ft., ( 100 %) Fm. Latrobe

Bit Type Christensen (-19, Bit Size 87/6 ×4 in., Desc. by JRB & AJM Date 16 March 1972

	Coring (min.	th &   Rate   ft.)	Graphic (1" = 5')	Shows	Interval (ft.) Descriptive Lithology
0	24	68			
			j .	Ĭ	1874'-75' SANDSTONE: As at base of Core#10.
	$+\lambda$			<del>-</del>	
L			7 <b>=</b>	***	Otase, clear to frosty white med to coasse
┞				<b>-</b>	grad. friable, poorly, std, tr mice tr sh.
┞	-}	+-+-	•		pebbles, clean, good floor, odour & cut, Good
ŀ	-			<del>-</del>	\$ & K, no structures.
H	+		o .		<i>f. r. f. r.</i>
Ì			7 0	<b>←</b>	7875' 75'8" (ANDSTONE) C. 20 24 1 1 2 2 1 1 1 2 2 1 1
					7875'-75'8" SANDSTONE: Gen as above, fine grained carbonaceous
			0	<b>X</b>	tight, poor perm + por. , bleeding oil
L					
L			7	P44	7875'8"-80' SANDSTONE: AS for 74-75'
_		4		***	
ļ.					7880'-81' SANOSTONE: As above, somewhat tighter with some
_				<b>-</b>	
~			7		Lorizontal corb laminae
		+		<b>←</b>	
_		+	. 0		7881'- 7899' SANDSTONE: Gen. as for 7874'-75' Med. +0c00855e
-	+++			<b>←</b>	grained with some scattered pebbles (up
	<del></del>				to some Coistle and the K / line ou
-				<b>←</b>	to 3mm) friable, good \$ \$ K, floor, cu
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# ESSO STANDARD OIL (AUSTRALIA) LTD. CORE DESCRIPTION

2/2

Core No.

WELL: Mackerel - Z

Interval Cored 7874'-7899' ft., Cut 25 ft., Recovered 25' ft., (100 %) Fm. Latrobe.

Bit Type Christensen (-19, Bit Size 8 7/6 x 4 in., Desc. by JRB & AJM Date 16 March 1971

Co (i	ring min.	h & Rate /ft.)	Đ	Graphic (1" = 5')	Shows	Interval (ft.) Descriptive Lithology
		6 8				
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+	-+1	+				
	-+1				<del>***</del>	
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# **CORE DESCRIPTION**

Core No. 12

WELL: MACKERAL - Z

Interval Cored 7899 - 7939ft., Cut 40 ft., Recovered 10 ft., (25 %) Fm. LATROBE

Bit Type C-19 F/O , Bit Size 87/6" X 4" in., Desc. by JRB & AJ.M Date 16 MAR 1972

	Depth & Coring Rate (min./ft.)	Graphic (1" = 5')	Shows	Interval (ft.)	Descriptive Lithology
99 <del>-</del>	O 5-10 15 20		WTR.	7899-7909	SANDSTONE - CLEAR to Frosty WH, QTZSE  Med-CRSE GEN'd W/ Scattered  Pebbles, FRIABLE, Glean, 900D  POR & PERM, POORLY SORTED, Tr.
1 1		, t. f.			Pyrite, Tr. Chlorite, subang to  RND., Pebbles all well rad.  Good even yellow Fluor, oper  Cut 1899-7901
05.				G 00 D	SHAVP OIL-WATER CONTACT AT 7901
10-				7909-7939 No RECO	
15-					
19	DEMARKS				
	<b>←</b> 5	PL FOR	OVER	L FOR EPRCO BURDEN ANALY FOR PALEO.	

### CORE DESCRIPTION

Core No. /Z

WELL: MACKERSL - Z

Interval Cored 7899-7939 ft., Cut 40 ft., Recovered 10 ft., ( 25 %) Fm. LATROBE

Bit Type C-19 F/D, Bit Size 87/6 x 4 in., Desc. by JRB \$ AJM Date 16 MAR 1972

Depth & Coring Rate (min./ft.)	Graphic (1" = 5")	ws Interval (ft.)	Descriptive Lithology
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# **CORE DESCRIPTION**

Core No. /3

WELL: Macherel - 2

Interval Cored 7939'-7946 ft., Cut 7' ft., Recovered 12 ft., (22 %) Fm. Latrobe

Bit Type Christensen C-19, Bit Size 87/6 x4 in., Desc. by JRB & AJM Date 18 Merch 1972

Depth & Coring Rate (min./ft.)	Graphic (1" = 5')	Shows	Interval (ft.)		Descriptive Lithology
2468					
		<del>4</del> <del>-</del> <del>-</del> <del>-</del>	7939'-7	<u>scat</u>	the pebbles subang-subr., v. poorly med friable good \$ \$ K. no s hows.
		NR.	15" Shale ca	vings (Lokes E	Entrance?) of top.
			A.V.		
	\	7	CORE BARK	FL JAMMED.	
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# 2.2 SIDE WALL CORE DESCRIPTIONS

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WELL MACKEREL-2
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# 2.3 CORE ANALYSIS RESULTS

Petroleum Tecipgy Laboratory, Bureau of Mineral Resources, Geray and Geophysics, Canberra

# CORE ANALYSIS RESULTS

NOTE: (?) Unless otherwise stated, porosities and permeabilities were determined on two plugs (V&H) cut vertically and horizontally to the axis of the core. Ruska porosimeter and permeameter were used with air and dry nitrogen as the saturating and flowing media respectively. (ii) Oil and water saturations were determined using Soxhlet type apparatus. (iii) Acetone test precipitates are recorded as Neg., Trace, Fair, Strong or Very Strong.

WELL NAME AND NO. MACKERAL NO. 2

DATE ANALYSIS COMPLETED 22 May 1973

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4	lest	N°D.	N.D.	N.D.	d a	NaDe.	N.D.	M.D.	N.D.
Core Water Salinity	(p.p.m. NaCl)	N.D.	MoDa	NeDe	N.D	M.D.	N.D.	M.D.	N.D.
ace)	01.1	и.D.	NaDa.	N.D.	N.D	N.D.	N.D.	M.D.	N.D.
Fluid Saturation (% pore space)	Water	N.D.	MaDa	N.D.	N.D.	N.D.	N.D.	NADe	N.D.
Average Density (gm/cc.)	Ury Apparent Bulk Grain	.09 2.71	2.67	09 2.71	12 2065	32 2.72	13 2,68	94 2.68	2.12 2.64
1	E E	2	2 08	<del></del>		2	53 2.		
ute abilit idarcy	Œ	212	572		197			N.D. 3,429	N.D. 368
Absolute Permeability (Millidarcy)	>	N.D.	N.D.	M.D.	, de	N.D.	N.D.	N,D	N D
Average Effective Porosity	two plugs (% Bulk Vol.	22.7	22,3	0	6.61	14.7	20.4	27,8	
Lithology		Sst;megreto vocegre	Sst;mogro	Sst;fegret cegreslty	e so	as above	ವಿ ಜರಿಯ€	Sst;m.gr.	Sst;m.gr. to v.c.gr.
<b>&amp;</b>	9								
Sample Depth	From	75891	80074	7695	14024	7753	7754	7701.	7821
S S	<del>*************************************</del>	-		4	U	9	9		6

Remarks: - CORE 3 - INSUFFICENT SAMPLE

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General File No. x824339x 72/2914

Well File No.

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Petroleum I

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ogy and Geophysics, Canberra

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WELL NAME AND NO. MACKERAL NO. 2

22 May 1973 DATE ANALYSIS COMPLETED

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Core Water Salinity Acetone	Test	N.D.		N.D.		M.D.	N.D.	N.D.	
Core Water Salinity	(p.p.m.	N.D.	N.D.	N.D.	N.D.	N. D.	N•D•	N.D.	
ion space)	011	N.D.	N.D.	N.D.	M.D.	N.D.	N.D.	N.D.	
Fluid Saturation (% pore space)	*ater	N.D.	N.D.	N.D.	N.D.	N.D.		M.D.	
verage lensity gm/cc。)	ry Apparam ulk Grain	2.69	2,66	2.70		2.64	2.82	2,69	
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Absolute Permeability (Millidarcy)	=	549	5,1	1,608	516				
Absolute Permeabil (Millidar	>	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
 Average Effective Porosity	two plugs (2 Bulk Voi.	24.7	16.7	28.0	26.8	23.9		27.2	
 Lithology		Sat;f.gr. to c.gr.	Sst;f.gr. to m.gr.	Sst;m.gr. to v.c.gr.	as above	Sst;m.gr. to c.gr.	Sst;cegreto vo vo	as above	
e	To								
Sample Depth	From	., 7843°	78551	7864	7877	78991	79061	7940	
Core No.		10	10	10	11	11	12	13	

Remarks: -

General File No. 524339 72/2914 Well File No.

### CORE LABORATORIES, INC.

### Petroleum Reservoir Engineering DALLAS, TEXAS

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# 3.0 PALYNOLOGY | PALAEONTOLOGY

PALYNOLOGY OF

MACKEREL - 2

GIPPSLAND BASIN

A.D. Partridge

ESSO AUSTRALIA LTD.

Palaeontological Report 1972/07

12th April 1972

#### INTRODUCTION

Samples from Mackerel - 2 were received for palynological analysis during March, 1972, and preliminary reports were issued during March. Unfortunately the greater part of the core and SWC material available from the Latrobe Group in Mackerel - 2 is of unfavourable lithology for palynological study, hence the number of barren samples and lack of age dating in the interval between 7574 feet and 8040 feet. The samples examined, and the results for Mackerel - 2 are summarised in the following:-

#### SUMMARY

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Sample SWC 64	Depth (in feet) 7574 *	Zone P. tuberculatus	Age Oligocene
SWC 63	7578	Sample barren	
Core 1	7607	tt tt	
Core 2	7692	tt tt	
Core 3	7693½	tt tt	
Core 5	7722	11 11	
11	7732 ft. 5 in.	11 11	
u	7732 ft. 9 in.	11 (2)	
Core 6	7752	Indeterminant	Early Eocene- Paleocene
Core 7	7784-85	Sample barren	
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SWC 17	8040 *	L. balmei	Paleocene
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SWC 11 ·	8194 *	·	11
SWC 35	8218	tt .	
SWC 5	8360 *	H	u ·
SWC 4	8386 *	II .	tt .
SWC 33	8425 *	ti -	. 11
SWC 31	8463 *	;	11

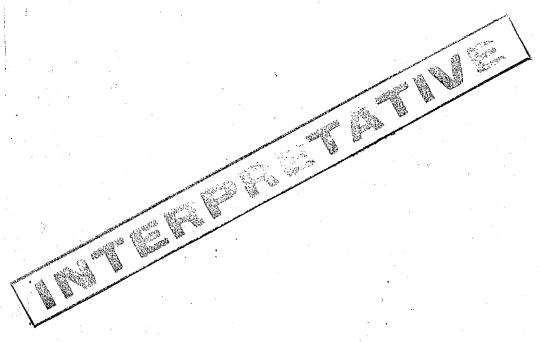
* Dinoflagellates present.

### COMMENTS

The SWC at 7574 feet contains pollen, spores and dinoflagellates of the P. tuberculatus Zone, which is in agreement with the Il age. determined from the foraminiferal data.

The SWC's below 8040 feet in the Latrobe Group contain good L. balmei Zone assemblages, and the majority of samples as indicated contain dinoflagellates.

With the exception of the shale band at 7752 feet from the top of Core 6 all samples processed from the first 460 feet of the Latrobe Group are barren or contain only obvious spore-pollen and dinoflagellate contaminants from the drilling mud. The most suitable lithologies from Core 5 and 6 were processed twice without improving the original results. The sample from 7752 feet in Core 6 contains very poorly preserved dinoflagellates, but no spores or pollen, although the lack of the latter may be more of a preservational rather than an environmental factor. The dinoflagellates appear to belong predominently to one species but are unidentifiable to either genus or species, with the exception of a poorly preserved specimen of Cyclonophelium retintextum. This species has a known range of L. balmei Zone into lower M. diversus Zone and is therefore suggests a Paleocene to early Eocene age for this sample.



MACKEREL -2 WELL NAME

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RATINGS:

- 0; SWC or CORE, EXCELLENT CONFIDENCE, assemblage with zone species of spores, pollen and microplankton.
- SWC or CORE, GOOD CONFIDENCE, assemblage with zone species of spores and 1;
- pollen or microplankton.

  SWC or CORE, POOR CONFIDENCE, assemblage with non-diagnostic spores, pollen and/or microplankton.
- CUTTINGS, FAIR CONFIDENCE, assemblage with zone species of either spores and pollen or microplankton, or both.
- 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.

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BY D. J. Taylor

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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	Danitrado reprominsor dos recorposos de la constitución de Santinio (C. S.)
Ву		nakan iki ikang inggipap panggapita kacaketo station it 7,500

GIPPSLAND, BASIN DATE WELL NAME MACKEREL -2 +32 feet ELEVATION HIGHEST DATA LOWEST DATA AGE PALYNOLOGIC Preferred Alternate 2 way Preferred Alternate 2 way ZONES Depth Depth Rtg. Rtg. time Depth Rtg Depth time Rtg. P. tuberculatus 7574 0 0 7574 U. N. asperus M. N. asperus L. N. asperus P. asperopolus ECENE U. M. diversus M. M. diversus L. M. diversus U. L. balmei 8040 8218 2 8194 0 L. L. balmei 8463 8360 0 T. longus T. lilliei EOUS N. senectus C. trip./T.pach C. distocarin. T. pannosus EARLY CRETACEOUS PRE-CRETACEOUS COMMENTS: Dinoflagellate Zones: Wetz. homomorpha 8040 (1) - 8194 (1) Eisenackia crassitabulata 8386 (1) - 8463 (1) SWC or CORE, EXCELLENT CONFIDENCE, assemblage with zone species of spores, RATINGS: 0; pollen and microplankton. SWC or CORE, GOOD CONFIDENCE, assemblage with zone species of spores and 1; pollen or microplankton. SWC or CORE, POOR CONFIDENCE, assemblage with non-diagnostic spores, pollen and/or microplankton. CUTTINGS, FAIR CONFIDENCE, assemblage with zone species of either spore and pollen or microplankton, or both.
CUTTINGS, NO CONFIDENCE, assemblage with non-diagnostic spores, pollen and/or microplankton. If a sample cannot be assigned to one particular zone, then no entry should be made. NOTE: 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 April 1972. DATA RECORDED BY: A.D.P. DATE Jan. 1975. DATA REVISED BY: ADP. FORM No R 315 12/72

# 4.0 FORMATION INTERVAL TEST (F.I.T) OATA

### R. D. AGNEW (VIC) PTY. LTD 582 ST. KILDA ROAD MELBOURNE, VICTORIA 3004

ESSO AUSTRALIA LIMITED

MACKEREL

MACKEREL No. 2 MARCH 20-23, 1972

PURPOSE:

OBTAIN SUBSURFACE PRESSURES WITH KUSTER GAUGE FROM SCHLUMBERGER

FORMATION INTERVAL TESTER

Tools Used: 1 Kuster 10,250 PSI SER No. 8757 12 HOUR CLOCK

# OPERATION SCHEDULE

Eggo

BASIC DATA HOURS REMARKS MARCH 20 0730 DEPART LONGFORD FOR GLOMAR 'CONCEPTION' MARCH 21 START & SET UP TOOLS. INTO HOLE WITH TOOLS - STACK DISENGAGED COME OUT 0400 0805 PERFORM FORMATION INTERVAL TEST No. 1 @ 7892" PERFORM FORMATION INTERVAL TEST No. 2 @ 7905' 1048 PERFORM FORMATION INTERVAL TEST No. 3 @ 7878' (GUN MALFUNCTION - MUD RUN ONLY) 1340 HYDROSTATIC 4125 PSI PERFORM FORMATION INTERVAL TEST No. 4 @ 7880 (GUN MALFUNCTION - MUD RUN ONLY) 1556 HYDROSTATIC 4161 PSI PERFORM FORMATION INTERVAL TEST No. 5 @ 7878' (GUN MALFUNCTION _ MUD RUN ONLY) HYDROSTATIC 4115 PSI 2025 PERFORM FORMATION INTERVAL TEST No. 6 @ 75921

MARCH 22

0643 PERFORM FORMATION INTERVAL TEST No. 7 @ 7842 0914 PERFORM FORMATION INTERVAL TEST No. 8 @ 77581 1143 PERFORM FORMATION INTERVAL TEST No. 9 @ 7627 1612 PERFORM FORMATION INTERVAL TEST NO. 10 @ 7860"

MARCH 23

ARRIVE LONGFORD 0900

OPERATOR: KEITH WEDLOCK

# R. D. AGNEW (VIC) PTY. LTD 582 St. Kilda Road MELBOURNE, VICTORIA 3004

ESSO AUSTRALIA LIMITED

MACKEREL

MACKEREL NO. 2 March 21, 1972

PURPOSE:

OBTAIN SUBSURFACE PRESSURES WITH KUSTER GAUGE FROM SCHLUMBERGER FORMATION INTERVAL TESTER

FORMATION INTERVAL TESTER

TOOLS USED: 1 KUSTER 10,250 PSI SER No. 8757 12 HOUR CLOCK

### F.I.T. TEST NO. 1 @ 7892' RT

HOURS	MINS	DEFL 6	PS IG	REMARKS	
		.786	4161	INITIAL HYDROSTATIC	
090b	0	.786	4161	SET PACKER & OPEN TOOL	
090\$	2	.157	803		
0910	4	. 137	723		
0912	6	.138	728		
0914	. 8	<b>.</b> 134	706		
0916	10	<b>.</b> 133	701	CHAMBER FILLED	
0918	12	.416	2217		
0920	14	.634	3365	• •	
0921	15	.634	3365	FINAL SHUT IN & OPEN S	EGREGATOR
0923	17	•577	3065		
0925	<b>1</b> 9	• 594	3154		
0927	21	•596	3165	Unseat Packer	
		.786	4161	FINAL HYDROSTATIC MAXIMUM TEMP. 196°F	

### F.I.T. TEST NO. 2 @ 7905' RT

Lioupo	RATALO	., .,	20.10	DEMADIZO
HOURS .	MINS	DEFL.	PSIG	REMARKS
		.787	4166	INITIAL HYDROSTATIC
1201	0	.787	4166	SET PACKER & OPEN TOOL
1203	2	<b>.</b> 639	3391	
1205	4	•639	3391	
1207	6	<b>.</b> 639	3391	CHAMBER FILLED
1209	8	.645	3322	
1211	10	.645	3322	
1213	12	.645	3322	•
1215.5	14.5	<b>⋄</b> 645	3322	CLOSE TOOL
		C 15	2200	<b>5</b>
		.645	3322	FINAL SHUT IN
	•	5700	. 4404	Fire Ibanaaria
		.790	4181	FINAL HYDROSTATIC

### R. D. AGNEW (VIC) PTY. LTD 582 ST. KILDA ROAD MELBOURNE, VICTORIA 3004

ESSO AUSTRALIA LIMITED

MACKEREL

MACKEREL NO. 2 MARCH 22, 1972

PURPOSE:

OBTAIN SUBSURFECE PRESSURES WITH KUSTER GAUGE FROM SCHLUMBERGER

FORMATION INTERVAL TESTER

TOOLS USED: 1 KUSTER 10,250 PSI SER NO. 8757 12 HOUR CLOCK ESSO

F.I.T. TEST NO. 7 @ 7842 RT

BASIO DATA

HOURS	MINS	DEFL.	PS IG	REWARKS
		.778	4119.8	INITIAL HYDROSTATIC
0846	0	.778	4119.8	OPEN TOOL
0848	2	.451	2401.5	
0850	4	.610	3238.4	
0852	6	.602	<b>31</b> 96.30	
0854	8	•597	3170.0	
0856	10	.593	3148.9	
0858	12	.590	3133.1	
0900	14	.588	3122.6	
0902	16	.587	3117.3	CHAMBER FILLED
0904	18	.634	3364.7	
0906	20	.634	3364.7	
0908	22	•634	3364.7	
		•		OPEN SEGREGATOR FOR APPROXIMATELY
			•	3 MINS. THIS PART OF CHART OBSCURED
1 A 2			,	BY UNSEATING.
	•	.778	4119.8	FINAL HYDROSTATIC
•	•			· ·
*				· · · · · · · · · · · · · · · · · · ·

### F.I.T. TEST NO. 8 @ 7758' RT

HOURS	MINS	DEFL	PS IG	REMARKS	
The second		.769	4073.3	INITIAL HYDROSTATIC	- 6
	0	.769	4073.3	OPEN TOOL	
	. 2	.516	2743.6		
	4	.468	2491.0		
e trans.	6	.460	2448.8		
	8	•459	2443.6		
	10	•459	2443.6	•	
nga gita si	12	.460	2448.8		
	14	.461	2454.2		
	16	.462	2459.4		
	17	.462	2459.4	CHAMBER FILLED	. *
	<b>1</b> 8	<b>.</b> 620	3291.0		
the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the co	20	.632	3354.2		
<b>9</b>	<b>2</b> 2	<b>.</b> 633	3359.4		
, · · · · · · · · · · · · · · · · · · ·	24	.633	3359.4	OPEN SEGREGATOR	
		<b>.</b> 635	3369.4	FINAL SHUT IN	
		.769	4073.3	FINAL HYDROSTATIC	

### R. D. AGNEW (VIC) PTY. LTD 582 ST. KILDA ROAD MELBOURNE, VICTORIA 3004

ESSO AUSTRALIA LIMITED

MACKEREL

MACKEREL NO. 2 MARCH 21, 1972

PURPOSE:

OBTAIN SUBSURFACE PRESSURES WITH KUSTER GAUGE FROM SCHLUMBERGER

FORMATION INTERVAL TESTER

1 Kuster 10,250 PSI SER No. 8757 12 HOUR CLOCK TOOLS USED:

ESSO

F. I.T. TEST NO. 6 @ 7592° RT

BASIC DATA

HOURS	7 m	MINS	DEFL.	PS 1G	REMARKS
2122 2124 2126 2128 2130		0 2 4 6 8	.754 .754 .003 .013 .014	3905.8 3905.8 16.2 50.11 55.8 55.8	INITIAL HYDROSTATIC
2132 2134 2136 2138 2140 2142		10 12 14 16 18 20	.014 .014 .023 .022 .022 .021	55.8 55.8 104.6 99.2 99.2 93.8	Fire shape charge
2144 2146 2148 2150 2152		22 24 26 28 30	.021 .020 .020 .019 .019	97.6 97.8 88.4 88.4 82.9 82.9	
2154 2156 2158 2159 2201		32 34 36 37 39	.019 .018 .018 .018 .010	82.9 77.5 77.5 77.5 34.2	Open segregator
2203 2205 2207 2209 2211 2213		41 42 44 46 48 50	.011 .020 .554 .616 .617	39.5 88.4 2943.6 3270 3275 3275	WELL SHUT IN

FINAL HYDROSTATIC OBSCURED

OPERATOR KEITH WEDLOCK

### R. D. AGNEW (VIC) PTY. LTD 582 St. Kilda Road Melbourne, Victoria 3004

ESSO AUSTRALIA LIMITED

MACKEREL

MACKEREL NO. 2 MARCH 22, 1972

PURPOSE:

OBTAIN SUBSURFECE PRESSURES WITH KUSTER GAUGE FROM SCHLUMBERGER

FORMATION INTERVAL TESTER

TOOLS USED: 1 Kuster 10,250 PSI SER No. 8757 12 HOUR CLOCK

ESSO

BASIC DATA

## F.I.T. TEST NO. 9 @ 7627' RT

HOURS	MINS	DEFL	PSIG	REMARKS	
	•	.748	3964.7	INITIAL HYDROSTATIC	
	. 0	.748	3964.7	SET PACKER & OPEN TOOL	
	2	.258	1378.3		
	4.	.572	3038.4		
	6	•570	3027.8		
	8	•569	3022.6		6
lada 1856 - 1 Villa di Santa di Santa di Santa di Santa di Santa di Santa di Santa di Santa di Santa di Santa di Santa di San	10	.569	3022.6		
	12	•569	3022.6		
	14	•569	3022.6	the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	
	16	•569	3022.6		
	17	•570	3027.8	CHAMBER FILLED	
	18	<b>.</b> 623	3306.8		
•	20	.623	3306.8		7
	22	<b>.</b> 623	3306.8		1.0
	23	<b>.</b> 623	3306.8	OPEN SEGREGATOR FOR APPROX	
	24.5	<b>.</b> 620	3291.0	1-1/2 MINUTES & UNSEAT PAG	KER
•			•		•

FINAL HYDROSTATIC OBSCURED IN UNSEATING MARKS

OPERATOR: KEITH WEDLOCK

ESSO AUSTRALIA LIMITED

MACKEREL

MACKEREL NO. 2 MARCH 22, 1972

PURPOSE:

OBTAIN SUBSURFACE PRESSURES WITH KUSTER GAUGE FROM SCHLUMBERGER

FORMATION INTERVAL TESTER

TOOLS USED: 1 KUSTER 10,250 PSI SER No. 8757 12 HOUR CLOCK ESSO

F.I.T. TEST NO. 10 @ 7860° RT

BASIC DATA

		•		
HOURS	MINS	DEFL.	PSIG	REMARKS
		.777	4114.7	INITIAL HYDROSTATIC
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	44	.010	34.2	
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OPERATOR: KEITH WEDLOCK

UNSEATING

#### PE904979

This is an enclosure indicator page. The enclosure PE904979 is enclosed within the container PE904978 at this location in this document.

The enclosure PE904979 has the following characteristics:

ITEM_BARCODE = PE904979
CONTAINER_BARCODE = PE904978

NAME = Mackerel 2 F.I.T. Data

BASIN = GIPPSLAND PERMIT = VIC/L5

TYPE = WELL

SUBTYPE = FIT

DESCRIPTION = Mackerel 2 Formation Interval Test

(F.I.T.) Data. Test number 1 - 10. From

section 4.0 of Well Summary.

REMARKS =

DATE_CREATED =

DATE_RECEIVED =

 $W_NO = W642$ 

WELL_NAME = Mackerel-2
CONTRACTOR = Schlumberger

CLIENT_OP_CO = Esso Standard Oil (Australia) LTD.

(Inserted by DNRE - Vic Govt Mines Dept)

# 5.0 ENCLOSURES

This is an enclosure indicator page. The enclosure PE603299 is enclosed within the container PE904978 at this location in this document.

The enclosure PE603299 has the following characteristics:

ITEM_BARCODE = PE603299
CONTAINER_BARCODE = PE904978

NAME = Mackerel 2 Mud Log

BASIN = GIPPSLAND

PERMIT = VIC/L5

TYPE = WELL

SUBTYPE = MUD_LOG

DESCRIPTION = Mackerel 2 Mud Log. Enclosure 5.1 of

Well Summary. Page 1 of 18.

REMARKS =

DATE_CREATED =

DATE_RECEIVED =

 $W_NO = W642$ 

WELL_NAME = Mackerel-2

CONTRACTOR = Baroid

CLIENT_OP_CO = Esso Standard Oil (Australia) LTD.

This is an enclosure indicator page. The enclosure PE603300 is enclosed within the container PE904978 at this location in this document.

The enclosure PE603300 has the following characteristics:

ITEM_BARCODE = PE603300
CONTAINER_BARCODE = PE904978

NAME = Mackerel 2 Mud Log

BASIN = GIPPSLAND PERMIT = VIC/L5

TYPE = WELL SUBTYPE = MUD_LOG

DESCRIPTION = Mackerel 2 Mud Log. Enclosure 5.1 of Well Summary. Page 2 of 18.

REMARKS =

DATE_CREATED = DATE_RECEIVED =

 $W_NO = W642$ 

WELL_NAME = Mackerel-2

CONTRACTOR = Baroid

CLIENT_OP_CO = Esso Standard Oil (Australia) LTD.

This is an enclosure indicator page. The enclosure PE603301 is enclosed within the container PE904978 at this location in this document.

The enclosure PE603301 has the following characteristics:

ITEM_BARCODE = PE603301
CONTAINER_BARCODE = PE904978

NAME = Mackerel 2 Mud Log

BASIN = GIPPSLAND PERMIT = VIC/L5

TYPE = WELL

SUBTYPE = MUD_LOG

DESCRIPTION = Mackerel 2 Mud Log. Enclosure 5.1 of Well Summary. Page 3 of 18.

REMARKS =

DATE_CREATED =

DATE_RECEIVED =

 $W_NO = W642$ 

WELL_NAME = Mackerel-2

CONTRACTOR = Baroid

CLIENT_OP_CO = Esso Standard Oil (Australia) LTD.

This is an enclosure indicator page. The enclosure PE603302 is enclosed within the container PE904978 at this location in this document.

The enclosure PE603302 has the following characteristics:

ITEM_BARCODE = PE603302
CONTAINER_BARCODE = PE904978

NAME = Mackerel 2 Mud Log

BASIN = GIPPSLAND

PERMIT = VIC/L5

TYPE = WELL

SUBTYPE = MUD_LOG

DESCRIPTION = Mackerel 2 Mud Log. Enclosure 5.1 of

Well Summary. Page 4 of 18.

REMARKS =

DATE_CREATED =

DATE_RECEIVED =

 $W_NO = W642$ 

WELL_NAME = Mackerel-2

CONTRACTOR = Baroid

CLIENT_OP_CO = Esso Standard Oil (Australia) LTD.

This is an enclosure indicator page. The enclosure PE603303 is enclosed within the container PE904978 at this location in this document.

The enclosure PE603303 has the following characteristics:

ITEM_BARCODE = PE603303
CONTAINER_BARCODE = PE904978

NAME = Mackerel 2 Mud Log

BASIN = GIPPSLAND

PERMIT = VIC/L5 TYPE = WELL

SUBTYPE = MUD_LOG

REMARKS =

DATE_CREATED =

DATE_RECEIVED =

 $W_NO = W642$ 

WELL_NAME = Mackerel-2

CONTRACTOR = Baroid

CLIENT_OP_CO = Esso Standard Oil (Australia) LTD.

This is an enclosure indicator page. The enclosure PE603304 is enclosed within the container PE904978 at this location in this document.

The enclosure PE603304 has the following characteristics:

ITEM_BARCODE = PE603304
CONTAINER_BARCODE = PE904978

NAME = Mackerel 2 Mud Log

BASIN = GIPPSLAND

PERMIT = VIC/L5

TYPE = WELL

SUBTYPE = MUD_LOG

REMARKS =

DATE_CREATED =

DATE_RECEIVED =

 $W_NO = W642$ 

WELL NAME = Mackerel-2

CONTRACTOR = Baroid

CLIENT_OP_CO = Esso Standard Oil (Australia) LTD.

This is an enclosure indicator page. The enclosure PE603305 is enclosed within the container PE904978 at this location in this document.

The enclosure PE603305 has the following characteristics:

ITEM_BARCODE = PE603305
CONTAINER_BARCODE = PE904978

NAME = Mackerel 2 Mud Log

BASIN = GIPPSLAND

PERMIT = VIC/L5

TYPE = WELL

SUBTYPE = MUD_LOG

 ${\tt DESCRIPTION = Mackerel \ 2 \ Mud \ Log. \ Enclosure \ 5.1 \ of}$ 

Well Summary. Page 7 of 18.

REMARKS =

DATE_CREATED =

DATE_RECEIVED =

 $W_NO = W642$ 

WELL NAME = Mackerel-2

CONTRACTOR = Baroid

CLIENT_OP_CO = Esso Standard Oil (Australia) LTD.

This is an enclosure indicator page.

The enclosure PE603306 is enclosed within the container PE904978 at this location in this document.

The enclosure PE603306 has the following characteristics:

ITEM_BARCODE = PE603306
CONTAINER_BARCODE = PE904978

NAME = Mackerel 2 Mud Log

BASIN = GIPPSLAND

PERMIT = VIC/L5

TYPE = WELL

SUBTYPE = MUD_LOG

DESCRIPTION = Mackerel 2 Mud Log. Enclosure 5.1 of

Well Summary. Page 8 of 18.

REMARKS =

DATE_CREATED =

DATE_RECEIVED =

 $W_NO = W642$ 

WELL NAME = Mackerel-2

CONTRACTOR = Baroid

CLIENT_OP_CO = Esso Standard Oil (Australia) LTD.

This is an enclosure indicator page. The enclosure PE603307 is enclosed within the container PE904978 at this location in this document.

The enclosure PE603307 has the following characteristics:

ITEM_BARCODE = PE603307
CONTAINER_BARCODE = PE904978

NAME = Mackerel 2 Mud Log

BASIN = GIPPSLAND

PERMIT = VIC/L5

TYPE = WELL

SUBTYPE = MUD_LOG

DESCRIPTION = Mackerel 2 Mud Log. Enclosure 5.1 of

Well Summary. Page 9 of 18.

REMARKS =

DATE CREATED =

DATE_RECEIVED =

 $W_NO = W642$ 

WELL_NAME = Mackerel-2

CONTRACTOR = Baroid

CLIENT_OP_CO = Esso Standard Oil (Australia) LTD.

This is an enclosure indicator page. The enclosure PE603308 is enclosed within the container PE904978 at this location in this document.

The enclosure PE603308 has the following characteristics:

ITEM_BARCODE = PE603308
CONTAINER_BARCODE = PE904978

NAME = Mackerel 2 Mud Log

BASIN = GIPPSLAND

PERMIT = VIC/L5

TYPE = WELL

SUBTYPE = MUD_LOG

DESCRIPTION = Mackerel 2 Mud Log. Enclosure 5.1 of

Well Summary. Page 10 of 18.

REMARKS =

DATE_CREATED =

DATE_RECEIVED =

 $W_NO = W642$ 

WELL_NAME = Mackerel-2

CONTRACTOR = Baroid

CLIENT_OP_CO = Esso Standard Oil (Australia) LTD.

This is an enclosure indicator page. The enclosure PE603309 is enclosed within the container PE904978 at this location in this document.

The enclosure PE603309 has the following characteristics:

ITEM_BARCODE = PE603309
CONTAINER_BARCODE = PE904978

NAME = Mackerel 2 Mud Log

BASIN = GIPPSLAND

PERMIT = VIC/L5

TYPE = WELL

SUBTYPE = MUD_LOG

DESCRIPTION = Mackerel 2 Mud Log. Enclosure 5.1 of

Well Summary. Page 11 of 18.

REMARKS =

DATE_CREATED =

DATE_RECEIVED =

 $W_NO = W642$ 

WELL_NAME = Mackerel-2

CONTRACTOR = Baroid

CLIENT_OP_CO = Esso Standard Oil (Australia) LTD.

This is an enclosure indicator page. The enclosure PE603310 is enclosed within the container PE904978 at this location in this document.

The enclosure PE603310 has the following characteristics:

ITEM_BARCODE = PE603310
CONTAINER_BARCODE = PE904978

NAME = Mackerel 2 Mud Log

BASIN = GIPPSLAND

PERMIT = VIC/L5

TYPE = WELL

SUBTYPE = MUD_LOG

 ${\tt DESCRIPTION = Mackerel \ 2 \ Mud \ Log. \ Enclosure \ 5.1 \ of}$ 

Well Summary. Page 12 of 18.

REMARKS =

DATE_CREATED =

DATE_RECEIVED =

 $W_NO = W642$ 

WELL_NAME = Mackerel-2

CONTRACTOR = Baroid

CLIENT_OP_CO = Esso Standard Oil (Australia) LTD.

This is an enclosure indicator page.

The enclosure PE603311 is enclosed within the container PE904978 at this location in this document.

The enclosure PE603311 has the following characteristics:

ITEM_BARCODE = PE603311
CONTAINER_BARCODE = PE904978

NAME = Mackerel 2 Mud Log

BASIN = GIPPSLAND

PERMIT = VIC/L5

TYPE = WELL

SUBTYPE = MUD_LOG

DESCRIPTION = Mackerel 2 Mud Log. Enclosure 5.1 of

Well Summary. Page 13 of 18.

REMARKS =

DATE_CREATED =

DATE_RECEIVED =

 $W_NO = W642$ 

WELL_NAME = Mackerel-2

CONTRACTOR = Baroid

CLIENT_OP_CO = Esso Standard Oil (Australia) LTD.

This is an enclosure indicator page. The enclosure PE603312 is enclosed within the container PE904978 at this location in this document.

The enclosure PE603312 has the following characteristics:

ITEM_BARCODE = PE603312
CONTAINER_BARCODE = PE904978

NAME = Mackerel 2 Mud Log

BASIN = GIPPSLAND

PERMIT = VIC/L5

TYPE = WELL

SUBTYPE = MUD_LOG

DESCRIPTION = Mackerel 2 Mud Log. Enclosure 5.1 of

Well Summary. Page 14 of 18.

REMARKS =

DATE_CREATED =

DATE_RECEIVED =

 $W_NO = W642$ 

WELL_NAME = Mackerel-2

CONTRACTOR = Baroid

CLIENT_OP_CO = Esso Standard Oil (Australia) LTD.

This is an enclosure indicator page. The enclosure PE603313 is enclosed within the container PE904978 at this location in this document.

The enclosure PE603313 has the following characteristics:

ITEM_BARCODE = PE603313
CONTAINER_BARCODE = PE904978

NAME = Mackerel 2 Mud Log

BASIN = GIPPSLAND

PERMIT = VIC/L5

TYPE = WELL

 $SUBTYPE = MUD_LOG$ 

REMARKS =

DATE_CREATED =

DATE_RECEIVED =

 $W_NO = W642$ 

WELL_NAME = Mackerel-2

CONTRACTOR = Baroid

CLIENT_OP_CO = Esso Standard Oil (Australia) LTD.

This is an enclosure indicator page. The enclosure PE603314 is enclosed within the container PE904978 at this location in this document.

The enclosure PE603314 has the following characteristics:

ITEM_BARCODE = PE603314
CONTAINER_BARCODE = PE904978

NAME = Mackerel 2 Mud Log

BASIN = GIPPSLAND

PERMIT = VIC/L5

TYPE = WELL

SUBTYPE = MUD_LOG

DESCRIPTION = Mackerel 2 Mud Log. Enclosure 5.1 of

Well Summary. Page 16 of 18.

REMARKS =

DATE_CREATED =

DATE_RECEIVED =

 $W_NO = W642$ 

WELL_NAME = Mackerel-2

CONTRACTOR = Baroid

CLIENT_OP_CO = Esso Standard Oil (Australia) LTD.

This is an enclosure indicator page. The enclosure PE603315 is enclosed within the container PE904978 at this location in this document.

The enclosure PE603315 has the following characteristics:

ITEM_BARCODE = PE603315 CONTAINER_BARCODE = PE904978

NAME = Mackerel 2 Mud Log

BASIN = GIPPSLAND

PERMIT = VIC/L5

 $\mathtt{TYPE} = \mathtt{WELL}$ 

SUBTYPE = MUD_LOG

DESCRIPTION = Mackerel 2 Mud Log. Enclosure 5.1 of

Well Summary. Page 17 of 18.

REMARKS =

DATE CREATED =

DATE_RECEIVED =

 $W_NO = W642$ 

WELL_NAME = Mackerel-2

CONTRACTOR = Baroid

CLIENT_OP_CO = Esso Standard Oil (Australia) LTD.

This is an enclosure indicator page. The enclosure PE603316 is enclosed within the container PE904978 at this location in this document.

The enclosure PE603316 has the following characteristics:

ITEM_BARCODE = PE603316
CONTAINER_BARCODE = PE904978

NAME = Mackerel 2 Mud Log

BASIN = GIPPSLAND PERMIT = VIC/L5

TYPE = WELL

SUBTYPE = MUD_LOG

REMARKS =

DATE_CREATED =

DATE_RECEIVED =

 $W_NO = W642$ 

WELL_NAME = Mackerel-2

CONTRACTOR = Baroid

CLIENT_OP_CO = Esso Standard Oil (Australia) LTD.

This is an enclosure indicator page. The enclosure PE603296 is enclosed within the container PE904978 at this location in this document.

The enclosure PE603296 has the following characteristics:

ITEM_BARCODE = PE603296
CONTAINER_BARCODE = PE904978

NAME = Mackerel 2 Mud Log

BASIN = GIPPSLAND

PERMIT = VIC/L5

TYPE = WELL

SUBTYPE = MUD_LOG

DESCRIPTION = Mackerel 2 Mud Log. Enclosure 5.2 of

Well Summary. Page 1 of 3.

REMARKS =

DATE_CREATED =

DATE_RECEIVED =

 $W_NO = W642$ 

WELL_NAME = Mackerel-2

CONTRACTOR = Baroid

CLIENT_OP_CO = Esso Standard Oil (Australia) LTD.

(Inserted by DNRE - Vic Govt Mines Dept)

)

This is an enclosure indicator page. The enclosure PE603297 is enclosed within the container PE904978 at this location in this document.

The enclosure PE603297 has the following characteristics:

ITEM_BARCODE = PE603297
CONTAINER_BARCODE = PE904978

NAME = Mackerel 2 Mud Log

BASIN = GIPPSLAND

PERMIT = VIC/L5

TYPE = WELL

SUBTYPE = MUD_LOG

DESCRIPTION = Mackerel 2 Mud Log. Enclosure 5.2 of

Well Summary. Page 2 of 3.

REMARKS =

DATE_CREATED =

DATE_RECEIVED =

 $W_NO = W642$ 

WELL_NAME = Mackerel-2

CONTRACTOR = Baroid

CLIENT_OP_CO = Esso Standard Oil (Australia) LTD.

This is an enclosure indicator page. The enclosure PE603298 is enclosed within the container PE904978 at this location in this document.

The enclosure PE603298 has the following characteristics:

ITEM_BARCODE = PE603298
CONTAINER_BARCODE = PE904978

NAME = Mackerel 2 Mud Log

BASIN = GIPPSLAND

PERMIT = VIC/L5

TYPE = WELL

 $SUBTYPE = MUD_LOG$ 

DESCRIPTION = Mackerel 2 Mud Log. Enclosure 5.2 of

Well Summary. Page 3 of 3.

REMARKS =

DATE_CREATED =

DATE_RECEIVED =

 $W_NO = W642$ 

WELL_NAME = Mackerel-2

CONTRACTOR = Baroid

CLIENT_OP_CO = Esso Standard Oil (Australia) LTD.

This is an enclosure indicator page. The enclosure PE902787 is enclosed within the container PE904978 at this location in this document.

The enclosure PE902787 has the following characteristics:

ITEM_BARCODE = PE902787

CONTAINER_BARCODE = PE904978

NAME = Time Depth Curve

BASIN = GIPPSLAND

PERMIT =

TYPE = WELL

SUBTYPE = VELOCITY_CHART

DESCRIPTION = Time Depth Curve

REMARKS =

 $DATE_CREATED = 31/03/1972$ 

DATE_RECEIVED =

 $W_NO = W642$ 

WELL_NAME = Mackerel-2

CONTRACTOR = ESSO CLIENT_OP_CO = ESSO

This is an enclosure indicator page. The enclosure PE603317 is enclosed within the container PE904978 at this location in this document.

The enclosure PE603317 has the following characteristics:

ITEM_BARCODE = PE603317
CONTAINER_BARCODE = PE904978

NAME = Mackerel 2 Drilling Data Record

BASIN = GIPPSLAND PERMIT = VIC/L5

TYPE = WELL

SUBTYPE = WELL_LOG

DESCRIPTION = Mackerel 2 Drilling Data Record with

""d"" Exponent and Kf = Apparent formation drillability. Enclosure 5.4

of Well Summary. Page 1 of 16

REMARKS =

DATE_CREATED = DATE_RECEIVED =

 $W_NO = W642$ 

WELL_NAME = Mackerel-2

CONTRACTOR = Esso Exploration

CLIENT_OP_CO = Esso Standard Oil (Australia) LTD.

This is an enclosure indicator page.

The enclosure PE603318 is enclosed within the container PE904978 at this location in this document.

The enclosure PE603318 has the following characteristics:

ITEM_BARCODE = PE603318
CONTAINER_BARCODE = PE904978

NAME = Mackerel 2 Drilling Data Record

BASIN = GIPPSLAND PERMIT = VIC/L5

TYPE = WELL SUBTYPE = WELL_LOG

DESCRIPTION = Mackerel 2 Drilling Data Record with

""d"" Exponent and Kf = Apparent

formation drillability. Enclosure 5.4

of Well Summary. Page 2 of 16

REMARKS =

DATE_CREATED = DATE_RECEIVED =

 $W_NO = W642$ 

WELL_NAME = Mackerel-2

CONTRACTOR = Esso Exploration

CLIENT_OP_CO = Esso Standard Oil (Australia) LTD.

This is an enclosure indicator page. The enclosure PE603319 is enclosed within the container PE904978 at this location in this document.

The enclosure PE603319 has the following characteristics:

ITEM_BARCODE = PE603319
CONTAINER_BARCODE = PE904978

NAME = Mackerel 2 Drilling Data Record

BASIN = GIPPSLAND PERMIT = VIC/L5 TYPE = WELL

SUBTYPE = WELL_LOG

DESCRIPTION = Mackerel 2 Drilling Data Record with

""d"" Exponent and Kf = Apparent

formation drillability. Enclosure 5.4

of Well Summary. Page 3 of 16

REMARKS =

DATE_CREATED = DATE_RECEIVED =

 $W_NO = W642$ 

WELL_NAME = Mackerel-2

CONTRACTOR = Esso Exploration

CLIENT_OP_CO = Esso Standard Oil (Australia) LTD.

This is an enclosure indicator page.

The enclosure PE603320 is enclosed within the container PE904978 at this location in this document.

The enclosure PE603320 has the following characteristics:

ITEM_BARCODE = PE603320
CONTAINER_BARCODE = PE904978

NAME = Mackerel 2 Drilling Data Record

BASIN = GIPPSLAND PERMIT = VIC/L5

TYPE = WELL

SUBTYPE = WELL_LOG

DESCRIPTION = Mackerel 2 Drilling Data Record with

""d"" Exponent and Kf = Apparent

formation drillability. Enclosure 5.4

of Well Summary. Page 4 of 16

REMARKS =

DATE_CREATED = DATE_RECEIVED =

 $W_NO = W642$ 

WELL_NAME = Mackerel-2

CONTRACTOR = Esso Exploration

CLIENT_OP_CO = Esso Standard Oil (Australia) LTD.

This is an enclosure indicator page.

The enclosure PE603321 is enclosed within the container PE904978 at this location in this document.

The enclosure PE603321 has the following characteristics:

ITEM_BARCODE = PE603321
CONTAINER_BARCODE = PE904978

NAME = Mackerel 2 Drilling Data Record

BASIN = GIPPSLAND PERMIT = VIC/L5 TYPE = WELL

SUBTYPE = WELL_LOG
DESCRIPTION = Mackerel 2 Drilling Data Record with

""d"" Exponent and Kf = Apparent

formation drillability. Enclosure 5.4

of Well Summary. Page 5 of 16

REMARKS =

DATE_CREATED = DATE_RECEIVED =

 $W_NO = W642$ 

WELL_NAME = Mackerel-2

CONTRACTOR = Esso Exploration

CLIENT_OP_CO = Esso Standard Oil (Australia) LTD.

This is an enclosure indicator page.

The enclosure PE603322 is enclosed within the container PE904978 at this location in this document.

The enclosure PE603322 has the following characteristics:

ITEM_BARCODE = PE603322
CONTAINER_BARCODE = PE904978

NAME = Mackerel 2 Drilling Data Record

BASIN = GIPPSLAND PERMIT = VIC/L5 TYPE = WELL

SUBTYPE = WELL_LOG

DESCRIPTION = Mackerel 2 Drilling Data Record with

""d"" Exponent and Kf = Apparent

formation drillability. Enclosure 5.4

of Well Summary. Page 6 of 16

REMARKS =

DATE_CREATED = DATE_RECEIVED =

 $W_NO = W642$ 

WELL_NAME = Mackerel-2

CONTRACTOR = Esso Exploration

CLIENT_OP_CO = Esso Standard Oil (Australia) LTD.

This is an enclosure indicator page.

The enclosure PE603323 is enclosed within the container PE904978 at this location in this document.

The enclosure PE603323 has the following characteristics:

ITEM_BARCODE = PE603323
CONTAINER_BARCODE = PE904978

NAME = Mackerel 2 Drilling Data Record

BASIN = GIPPSLAND PERMIT = VIC/L5

TYPE = WELL SUBTYPE = WELL_LOG

DESCRIPTION = Mackerel 2 Drilling Data Record with

""d"" Exponent and Kf = Apparent

formation drillability. Enclosure 5.4

of Well Summary. Page 7 of 16

REMARKS =

DATE_CREATED =

DATE_RECEIVED =

 $W_NO = W642$ 

WELL_NAME = Mackerel-2

CONTRACTOR = Esso Exploration

CLIENT_OP_CO = Esso Standard Oil (Australia) LTD.

This is an enclosure indicator page. The enclosure PE603324 is enclosed within the container PE904978 at this location in this document.

The enclosure PE603324 has the following characteristics:

ITEM_BARCODE = PE603324 CONTAINER_BARCODE = PE904978

NAME = Mackerel 2 Drilling Data Record

BASIN = GIPPSLAND PERMIT = VIC/L5

 $\mathtt{TYPE} = \mathtt{WELL}$ SUBTYPE = WELL_LOG

DESCRIPTION = Mackerel 2 Drilling Data Record with ""d"" Exponent and Kf = Apparent

formation drillability. Enclosure 5.4

of Well Summary. Page 8 of 16

REMARKS =

DATE_CREATED = DATE_RECEIVED =

 $W_NO = W642$ 

WELL_NAME = Mackerel-2

CONTRACTOR = Esso Exploration

CLIENT_OP_CO = Esso Standard Oil (Australia) LTD.

This is an enclosure indicator page. The enclosure PE603325 is enclosed within the container PE904978 at this location in this document.

The enclosure PE603325 has the following characteristics:

ITEM_BARCODE = PE603325
CONTAINER_BARCODE = PE904978

NAME = Mackerel 2 Drilling Data Record

BASIN = GIPPSLAND PERMIT = VIC/L5 TYPE = WELL

SUBTYPE = WELL_LOG

DESCRIPTION = Mackerel 2 Drilling Data Record with ""d"" Exponent and Kf = Apparent

formation drillability. Enclosure 5.4 of Well Summary. Page 9 of 16

REMARKS =

DATE_CREATED = DATE_RECEIVED =

 $W_NO = W642$ 

WELL_NAME = Mackerel-2

CONTRACTOR = Esso Exploration

CLIENT_OP_CO = Esso Standard Oil (Australia) LTD.

This is an enclosure indicator page.

The enclosure PE603326 is enclosed within the container PE904978 at this location in this document.

The enclosure PE603326 has the following characteristics:

ITEM_BARCODE = PE603326
CONTAINER_BARCODE = PE904978

NAME = Mackerel 2 Drilling Data Record

BASIN = GIPPSLAND PERMIT = VIC/L5 TYPE = WELL

SUBTYPE = WELL_LOG

DESCRIPTION = Mackerel 2 Drilling Data Record with

""d"" Exponent and Kf = Apparent

formation drillability. Enclosure 5.4 of Well Summary. Page 10 of 16

REMARKS =

DATE_CREATED = DATE_RECEIVED =

 $W_NO = W642$ 

WELL_NAME = Mackerel-2

CONTRACTOR = Esso Exploration

CLIENT_OP_CO = Esso Standard Oil (Australia) LTD.

This is an enclosure indicator page. The enclosure PE603327 is enclosed within the container PE904978 at this location in this document.

The enclosure PE603327 has the following characteristics:

ITEM_BARCODE = PE603327
CONTAINER_BARCODE = PE904978

NAME = Mackerel 2 Drilling Data Record

BASIN = GIPPSLAND PERMIT = VIC/L5 TYPE = WELL

SUBTYPE = WELL_LOG

DESCRIPTION = Mackerel 2 Drilling Data Record with

""d"" Exponent and Kf = Apparent

formation drillability. Enclosure 5.4

of Well Summary. Page 11 of 16

REMARKS =

DATE_CREATED = DATE_RECEIVED =

 $W_NO = W642$ 

WELL_NAME = Mackerel-2

CONTRACTOR = Esso Exploration

CLIENT_OP_CO = Esso Standard Oil (Australia) LTD.

This is an enclosure indicator page. The enclosure PE603328 is enclosed within the container PE904978 at this location in this document.

The enclosure PE603328 has the following characteristics:

ITEM_BARCODE = PE603328
CONTAINER_BARCODE = PE904978

NAME = Mackerel 2 Drilling Data Record

BASIN = GIPPSLAND PERMIT = VIC/L5 TYPE = WELL

SUBTYPE = WELL_LOG

DESCRIPTION = Mackerel 2 Drilling Data Record with

""d"" Exponent and Kf = Apparent formation drillability. Enclosure 5.4

of Well Summary. Page 12 of 16

REMARKS =

DATE_CREATED =

DATE_RECEIVED =

 $W_NO = W642$ 

WELL_NAME = Mackerel-2

CONTRACTOR = Esso Exploration

CLIENT_OP_CO = Esso Standard Oil (Australia) LTD.

This is an enclosure indicator page.

The enclosure PE603329 is enclosed within the container PE904978 at this location in this document.

The enclosure PE603329 has the following characteristics:

ITEM_BARCODE = PE603329
CONTAINER_BARCODE = PE904978

NAME = Mackerel 2 Drilling Data Record

BASIN = GIPPSLAND PERMIT = VIC/L5 TYPE = WELL

SUBTYPE = WELL_LOG

DESCRIPTION = Mackerel 2 Drilling Data Record with

""d"" Exponent and Kf = Apparent

formation drillability. Enclosure 5.4 of Well Summary. Page 13 of 16

REMARKS =

DATE_CREATED = DATE_RECEIVED =

 $W_NO = W642$ 

WELL_NAME = Mackerel-2

CONTRACTOR = Esso Exploration

CLIENT_OP_CO = Esso Standard Oil (Australia) LTD.

This is an enclosure indicator page.

The enclosure PE603330 is enclosed within the container PE904978 at this location in this document.

The enclosure PE603330 has the following characteristics:

ITEM_BARCODE = PE603330
CONTAINER_BARCODE = PE904978

NAME = Mackerel 2 Drilling Data Record

BASIN = GIPPSLAND PERMIT = VIC/L5

TYPE = WELL

SUBTYPE = WELL_LOG

DESCRIPTION = Mackerel 2 Drilling Data Record with

""d"" Exponent and Kf = Apparent

formation drillability. Enclosure 5.4

of Well Summary. Page 14 of 16

REMARKS =

DATE_CREATED =

DATE_RECEIVED =

 $W_NO = W642$ 

WELL_NAME = Mackerel-2

CONTRACTOR = Esso Exploration

CLIENT_OP_CO = Esso Standard Oil (Australia) LTD.

This is an enclosure indicator page.

The enclosure PE603331 is enclosed within the container PE904978 at this location in this document.

The enclosure PE603331 has the following characteristics:

ITEM_BARCODE = PE603331
CONTAINER_BARCODE = PE904978

NAME = Mackerel 2 Drilling Data Record

BASIN = GIPPSLAND PERMIT = VIC/L5 TYPE = WELL

SUBTYPE = WELL_LOG

DESCRIPTION = Mackerel 2 Drilling Data Record with

""d"" Exponent and Kf = Apparent

formation drillability. Enclosure 5.4

of Well Summary. Page 15 of 16

REMARKS =

DATE_CREATED = DATE_RECEIVED =

 $W_NO = W642$ 

WELL_NAME = Mackerel-2

CONTRACTOR = Esso Exploration

CLIENT_OP_CO = Esso Standard Oil (Australia) LTD.

This is an enclosure indicator page.

The enclosure PE603332 is enclosed within the container PE904978 at this location in this document.

The enclosure PE603332 has the following characteristics:

ITEM_BARCODE = PE603332
CONTAINER_BARCODE = PE904978

NAME = Mackerel 2 Drilling Data Record

BASIN = GIPPSLAND PERMIT = VIC/L5 TYPE = WELL

SUBTYPE = WELL_LOG

DESCRIPTION = Mackerel 2 Drilling Data Record with

""d"" Exponent and Kf = Apparent

formation drillability. Enclosure 5.4

of Well Summary. Page 16 of 16

REMARKS =

DATE_CREATED = DATE_RECEIVED =

 $W_NO = W642$ 

WELL_NAME = Mackerel-2

CONTRACTOR = Esso Exploration

CLIENT_OP_CO = Esso Standard Oil (Australia) LTD.