

**PELICAN #3
RAW DATA REPORT**

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NOTICE OF INTENTION TO DRILL

The Designated Authority, Tasmania,

Hematite Petroleum Proprietary Limited, being the holder of Petroleum Exploration Permit No. T/6P hereby notifies its intention to drill a well and requests your permission to carry out the proposed operation

I. Well Pelican -3
Classification
Outpost

II. Operator Esso Australia Ltd.,
Esso House,
127 Kent Street,
SYDNEY, N.S.W.

Person-in-charge

L. Lipscomb,
Esso Australia Ltd.,
42 Raymond Street,
SALE, VIC.

Geological Supervision

A.C. Pierce,
Esso Australia Ltd.,
Esso House,
127 Kent Street,
SYDNEY, N.S.W.

Docum 3

390004

III. Drilling Contractor

Global Marine,
P.O. Box 531,
SALE, VIC.

Drilling Rig

Glomar Conception

Date of Commencement

1st April, 1972.

IV. Details of Operation

Location Longitude 145° 51' 50.670" East
Latitude 40° 15' 43.228" South

Water Depth 253 feet

Drilling Datum 3/4 feet above sea level

Casing Programme 20 inch @ 500 feet
13-3/8 inch @ 3000 feet
9-5/8 inch at T.D. prior to testing or shallower depth if necessary then test through 7 inch at T.D.

Logging Programme Between 9100-9200 feet subsea or prior to running 9-5/8 inch casing.
Run 1 IES, BHCS-SP, FDC-GR (Run GR to surface) CST's possible, FIT's, Neutron, MLL HDT
Final logging run at Total Depth
Run 2 IES, BHCS-SP, FDC-GR, HDT, CST's possible FIT's, Neutron, MLL
A velocity survey is scheduled to be run prior to running 9-5/8 inch casing and/or at total depth depending on the casing programme.

Coring Programme Continuously core from first indications of hydrocarbons at approximately 8200 feet until interruptions or shows are indicated due either to changes in lithology or beneath a water contact. In the event that a water contact is cored, continue coring until that reservoir unit is penetrated.

Proposed Total Depth 10,000 feet

Notification dated 29th day of February 1972.


.....
R.P. Harrison
Manager Operations
Hematite Petroleum P/L

DRILLING PROGRAM - PELICAN-3MATERIAL LIST

<u>ITEM</u>	<u>QTY.</u>	<u>DESCRIPTION</u>
<u>Wellhead Equipment:</u>		
1.	1	30" Drilling Template - Alloycraft Part No. 562-48-061.
2.	1	Guide Base 6 ft. radius - CIW Part No. 672408-2.
3.	1	Fabricated Pile Joint consisting of: 30" Conductor Housing - CIW Part No. 680560. 16-3/4" - 5000# Casing Head Housing - CIW Part No. 680891-3. 30' - 30" 310#/ft. 1.00" WT LP. 40' - 20" 154#/ft. 0.750" WP X-52 LP with CIW cc Connector Pin.
4.	1	16-3/4" x 13-3/8" Flow Thru Hanger and Seal Assembly - CIW Part No. 674066-1-2.
5.	1	16-3/4" x 9-5/8" Flow Thru Hanger and Seal Assembly - CIW Part No. 674066-31-2.
<u>Conductor:</u>		
1.	40'	20" 154#/ft. 0.750" WT X-52 LP with CIW cc Connector Box and CIW Threaded Connector Pin.
2.	360'	20" 91.5#/ft. 0.438" WT X-52 LP with CIW Threaded Connector Pin and Box.
3.	40'	20" 91.5#/ft. 0.438" WT X-52 LP with Baker Float Shoe, Part No. 100-01, and CIW Threaded Connector Box.
4.	6	20" Centralizer, Latch-on Baker Model M Part No. 244-53.
5.	3	20" Clamp, Casing, Stop Ring, Baker Part No. 248-02.

<u>ITEM</u>	<u>QTY.</u>	<u>DESCRIPTION</u>
<u>Surface Casing:</u>		
1.	2710'	13-3/8" Casing 54.5#/ft. J-55 Buttress.
2.	1 jt.	13-3/8" Casing 54.5#/ft. J-55 Buttress with float collar Baker Part No. 101-01 threadlocked on top and float shoe Baker Part No. 100-01 threadlocked on bottom.
3.	10	13-3/8" Centralizer, Latch-on Baker Model M Part No. 244-53.
4.	2	13-3/8" Clamp, Casing, Stop Ring, Baker Part No. 248-02.
5.	1	13-3/8" Subsea Cementing Plug - bottom.
6.	1	13-3/8" Subsea Cementing Plug - top.
<u>Production Casing:</u>		
1.	9710'	9-5/8" Casing 47.0#/ft. N-80 Buttress.
2.	1 jt.	9-5/8" Casing 47.0#/ft. N-80 Buttress with float collar Baker Part No. 101-01 threadlocked on top and float shoe Baker Part No. 100-01 threadlocked on bottom.
3.	50	9-5/8" Centralizer, Latch-on Baker Model M Part No. 244-53.
4.	60	9-5/8" Clamp, Casing, Stop Ring, Baker Part No. 248-02.
5.	1	9-5/8" Subsea Cementing Plug - bottom.
6.	1	9-5/8" Subsea Cementing Plug - top.

<u>ITEM</u>	<u>QTY.</u>	<u>DESCRIPTION</u>
<u>Completion Equipment:</u>		
1.	9500'	2-7/8" EUE 6.5#/ft. N-80 tubing with Teflon rings in couplings and plastic coated internally.
2.	1	Otis permatrieve hydraulic set packer 9-5/8" x 2-7/8".
3.	1	Otis XA SSD 2-7/8" EUE.
4.	1	Otis S-1 LN 2-7/8" EUE.
5.	1	Otis Annulus pressure operated downhole ball valve 2-7/8" EUE.
6.	250'	2-7/8" American Open Hole 6.5#/ft. N-80 tubing plastic coated internally.
7.	40'	5" OD polished joint with hanger and back off assembly.

ESSO STANDARD OIL (AUST) LTD. DRILLING PROGRAM

FIELD - PELICAN

WELL NUMBER - 3

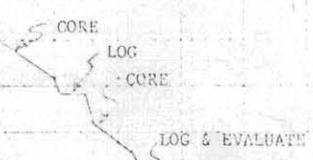
DRILLING SLOT -

PROJECTED TD - 10,000

PREPARED BY - G.L. Argall

DATE - Feb. 23, 1972

MD	DRILLING TIME ESTIMATE, DAYS					BIT PROGRAM				HYDRAULIC PROGRAM				REMARKS	
	10	20	30	40	50	SIZE & TYPE	JETS (V/32 IN)	WOB	RPM	LINER SIZE & ORIENTATION	PRESSURE	SPM	SPM		ANNULAR VELOCITY (FT/M)
0						36" HO - 50'± pent. 26" OSC3A	1-15 2-16	10/20	200/ 250	6-3/4" Parallel	3,000	65/65	1035	40	Drill 50'± of 36" hole, then drill 26" hole to 530'± of penetration. Run stab. LDC above bit.
1,000						15" OSC3 w/ 17 1/2" I.O.		20/30	200/ 250	6-3/4" Parallel	3,000	65/65		85	Drill 17 1/2" hole to 3050'± KB.
2,000														Hydraulics calculated assuming 6 jets HWDP and 6 DC's (7 1/2").	
3,000														No log required on surface hole.	
4,000						12 1/2" XDA	3-16	50	200/ 250	6-3/4" Parallel	3,000	49/49	780	155	Hydraulics calculated assuming 51 jets HWDP and 3 DC's (7 1/2"). Adjust SPM to maintain pressure. Pelican-1 and -2 bit records attached.
5,000							2-15 1-16		150/ 200			45/45	720	140	
6,000						12 1/2" XDG		60				43/43	690	135	
7,000								70							
8,000						12 1/2" XDV	3-15		120/ 150			42/42	670	130	
9,000							1-14	2-15				39/39	620	120	
9,000						8-5/16 C-20 Christensen core bit	-	20	50/80		900	22/22	320	65	Circulate bottoms up before dropping dart to core.
10,000						12 1/2" XDV	2-14	1-15	70	90/120	3,000	35/35	565	110	Maintain constant drilling parameters to aid in detecting abnormal pressure.
														Run and cement casing, complete, test and abandon.	



390008

DRILLING PROGRAM

FIELD : PELICAN

WELL NUMBER : 3

PREPARED BY - G.L. ARGALL

DATE - Feb. 23, 1972

GEOLOGICAL DATA			PREDICTED OVER-BALANCE PSI	MEASURED DEPTH	DRILLING MUD						
FORMATION	ESTIMATED BOTTOM HOLE PRESSURE	REMARKS			PROPERTIES						TREATMENT & REMARKS
					WT.	VISC	WATER LOSS	PV / YP	SOLIDS	OIL	
Water Depth 253'±		Seabed 287'± KB				Seawater					Spot 60-80 vis gel water before running 20" casing.
Gellibrand Marl @ Seabed				1,000	8.5	Natural	Seawater Mud				Test 20" casing. Drill out and test formation with seawater. Drill with natural seawater mud. Control weight with solids control and additions of seawater. Add gel prehydrated in freshwater before running casing.
				2,000							
				3,000	9.0	45/50	-	10/1	5	-	
				4,000	9.3	35	-	10/1	7	-	Test 13-3/8" casing. Drill out and test formation with seawater.
Jan Juc @ 3978'±				5,000							Add 7 sacks bentonite per 100 feet of hole or 25 sacks per day minimum.
Demons Bluff @ 5540'±				6,000							
				7,000	9.5	38		12/2	8	-	Convert to freshwater lignosulphonate mud @ 7000'±. Begin treatment with KCl to inhibit borehole enlargement in the sandstone intervals. Pilot test before adding KCL. Will require lignite in addition to lignosulphonate to maintain water loss control below 9000'.
Upper M. diversus @ 7244'±				8,000	@ 7000'		15				Will require lignite in addition to lignosulphonate to maintain water loss control below 9000'.
Lower M. diversus @ 8009'±							6/10				Monitor abnormal pressure indicators to dictate TD.
	3575 @ 8400'±		575								
	3975 @ 8900'±		500	9,000	@ 8900'	40	HHP 15-20	14/2	9	-	
Intra lower M. diversus @ 9324'±	4525 @ 9650'±		700	10,000	@ 9650'	45	*	16/4	10		
											*Water loss should be less than 15 for logging.

390009

DRILLING PROGRAMGeneral:

Well Name : PELICAN-3
 Water Depth : ±253'
 Rig : Glomar Conception
 Location : Seismic line B70A-5 shot point 3138
 Latitude 40° 15' 43.228" South
 Longitude 145° 51' 50.670" East
 AMG Zone 55 Co-ordinates
 403408E
 5542527N

This location is 5.5 miles north-northeast of Pelican-1 and 4.0 miles northeast of Pelican-2.

Programmed Total Depth: 10,000 feet

Formation Evaluation:

(a) Electric Logging:

Depth	Logs
Between 9100'-9200'	IES, BHCS-SP, FDC-GR (run GR to surface), CST's, possible FIT's, Neutron, MLL, HDT.
Total Depth	IES, BHCS-SP, FDC-GR, HDT, CST's, Velocity Survey, possible FIT's, Neutron, MLL. Additional runs may be necessary dependant on shows.

(b) Mud Logging:

Mud logging will be continuous from the 20" casing shoe to total depth. Obtain 5 sets of washed and dried samples and 1 sack of unwashed cuttings every 10 feet. If drilling conditions warrant, samples need be taken only every 30 feet. Also obtain one tin can of 10 foot samples every 100 feet.

(c) Coring Program:

Continuously core from first indications of hydrocarbons at approximately 8200' until interruptions in shows are indicated due either to changes in lithology or beneath a water contact. In the event a water contact is cored, continue coring until that reservoir unit is penetrated. Initial cores will be cut using a 60 foot barrel. If recovery is successful, extend the core barrel to a maximum of 90'.

Cementing Program:CasingCement System

30"/20" Pile Joint
Annulus

60 sx of Aust. 'N' w/ 2% CaCl₂ mixed with fresh water.
(5640# cement, 113# CaCl₂, and 7.5 barrels fresh water).

Yield: 1.18 cu.ft./sk
Water: 5.2 gal./sk
Slurry Weight: 15.6 ppg

(This volume gives 10% excess).

Pile Joint and
20" Conductor

800 sx of Aust. 'N' preblended with 6% gel and mixed with fresh water (167 barrels).

Yield: 1.69 cu.ft./sk
Water: 8.8 gal./sk
Slurry Weight: 13.7 ppg

Tail in with 350 sx of Aust. 'N' with 2% CaCl₂ mixed with fresh water.
(32,900# cement, 658# CaCl₂, and 44 barrels fresh water).

Yield: 1.18 cu.ft./sk
Water: 5.2 gal./sk
Slurry Weight: 15.6 ppg

This volume allows for twice gauge volume.

13-3/8" Surface

Bring cement top to 1550'± with a slurry of 15.6 ppg neat cement mixed with fresh water.

(For a gauge hole, 950 sx of neat cement).

9-5/8" Production

Use caliper log to calculate cement required to bring cement top 1000' above all hydrocarbon bearing zones.
Use neat cement with .6% HR-4 mixed to 15.3 ppg. (4:08 TT @ 198°F.)

DRILLING PROGRAM - PELICAN-3Casing Program:

<u>Type</u>	<u>Size</u>	<u>Hole Size</u>	<u>Setting Depth</u>	<u>Running String</u>	<u>String Components</u>
Pile Joint	30"/20"	36"	40'± penetration	D.P.	Pile joint assembly consisting of: 30" CIW Conductor Housing, 30'-30" 310#/ft. 1.00" WT. LP. 16-3/4" x 30" CIW Housing, 40'-20" 154.2#/ft. 0.750" WT X-52 LP with CIW cc connector pin.
	Fill pile joint 30"/20" annulus with cement prior to running.				
Conductor	20"	26"	480'± penetration	D.P.	Pile joint 40'± 20" 154.2#/ft. 0.750" WT X-52 LP with CIW cc connector box and CIW JV threaded connector pin. 360'± 20" 91.51#/ft. 0.438" WT X-52 LP with CIW JV threaded connector pin and box. 40'± 20" 91.51#/ft. 0.438" WT X-52 LP with welded float shoe and CIW JV threaded connector box.
	Centralizers: 1 centralizer at bottom and top of 1st joint. Position stop rings for 5' of centralizer movement between collar and stop ring. 1 centralizer at top of 2nd joint with stop ring positioning as above. 1 centralizer free to move on 4th, 6th and 8th joints.				
Surface	13-3/8"	18"	2750'± penetration (3000'± KB)	HWDP	16-3/4" x 13-3/8" CIW Hanger and Seal Assembly. 2710'± 13-3/8" 54.5#/ft. J-55 Buttress Casing. 13-3/8" Float Collar. 1 Joint 13-3/8" 54.5#/ft. J-55 Buttress Casing. 13-3/8" Float Shoe.
	Centralizers: 1 centralizer at bottom and top of 1st joint. Position stop rings for 5' of centralizer movement. 1 centralizer free to move on 3rd, 5th, 7th, 9th, 11th, 13th, 15th and 17th joints.				
Production	9-5/8"	12 1/4"	10,000'± KB	HWDP	16-3/4" x 9-5/8" CIW Hanger and Seal Assembly. 9710'± 9-5/8" 47.0#/ft. N-80 Buttress Casing. 9-5/8" Float Collar. 1 Joint 9-5/8" 47.0#/ft. N-80 Buttress Casing. 9-5/8" Float Shoe.
	Centralizers: 1 centralizer at bottom and top of 1st joint. Position stop rings for 5' of centralizer movement. 1 centralizer free to move on 3rd, 5th, and 7th joints. 1 centralizer per joint. from 8th joint to 500 ft. above uppermost hydrocarbon bearing zone.				

Completion:

Test zones of interest through 2-7/8" tubing. A detailed completion procedure will be supplied later.

Abandonment:

Squeeze off the perforated zone with 100 sx of Aust. 'N' with 0.6% HR-4 mixed to 15.6 ppg.

Set a 200 ft. plug in 9-5/8" at depth of 13-3/8" casing shoe. Use 80 sx of Aust. 'N' mixed to 15.6 ppg.

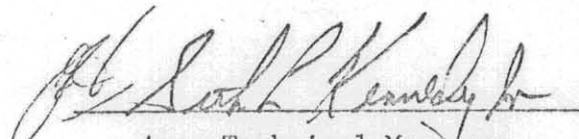
Set a 200 ft. top plug at 50'± below the mud line inside the 13-3/8" casing. Use 150 sx of Aust. 'N' with 2% CaCl₂ mixed to 15.6 ppg.

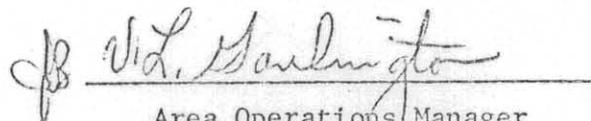
Other:

Pressure test the 20" casing to 500 psi and the 13-3/8" casing to 1500 psi after the cement has set and prior to drilling out, pressure test the formation below the casing as follows:

<u>Casing</u>	<u>Pressure</u>	<u>Mud in Hole</u>	<u>Mud Wt. Equivalent</u>
20"	75 psi	Seawater	10.5 ppg
13-3/8"	620 psi	Seawater	12.5 ppg

Well data, particularly relating to production horizons, will be held strictly confidential.


Area Technical Manager


Area Operations Manager


Area Manager

IEC

390014

P8/2

Daily Report

Polunin 3.

11 May

Bottom Seals - 7422' Pages 688'

Lithology interbedded Siltstone, Sandstone

& coal.

7' intervals of coal 20'-50' but

one of 50' of coal in stumps.

Sandstone fine to medium & occasional
coarse sand.

Siltstone non calcareous.

Gas Readings High gas reads
of up to 10,000 C₁ opposite
coal seams.

of
WJ

Denebola

PR/2

IEC

390015

Flog

Daily Report

Release 3

12th May

Bottom depth 7672'

Wash progress 239'

Slow progress due to bit change, testing
BOP stack & penetration rate dropped
to about 60' per hour.

Lithology: interbedded Sandstone,
siltstone & coal
sandstone, white, very fine to medium,
Siltstone, dark brown, carbonaceous.
base, black.

Gas Readings

Peaks of C₁, about coal seams
at 7450, 7520, 7610 - up to 10,000.

J.

J

Overton
IEG

PR/2

380016

Daily Report

Alluvial S.

15th May.

Bottom depth 8617'
Progress (since 12th May) 945'
Drilling rate slowing down to about
20 feet/hour.

Lithology similar to that reported last,
interbedded sandstone, siltstone & some
coal. - Last 300 feet intended to be
more study.

See back opposite logs at 8600, 8120
8200, 8240 & 8290.

No shows to report.

J

J

① Director

② IEC dep

Daily ReportRelease 3.16/5/72.

Bottom Report - 8893'
 Progress 176'

Geology - Comments Sandstone to 8860'
 8860 - 8870 60-90% siltstone
 with minor sand & coal

No good shows reported yet
 but spotty fluorescence noted in
 coal at 8860' & the presence of
 ash or resin in the cuttings are
 regarded as hopeful signs that the
 hole may be approaching hydrocarbons.

Weather outlook for next 24 hours
 at the well site is reported to be poor

J

J

- (1) Director
- (2) IEC

Daily Report Run 3.

17th May

Bottom Depth - 9084'
Progress 191'

Lithology

continues in siltstone with some interbedded coal from 8870' to 9060'

Two peaks of thin coals at 8950'
8985 - 8995'
9040 - 9050'

No shows of fluorescence

J

9

390019

- ① Seneca ~~1910~~
- ② IEC ~~1910~~

Daily Report Pelican 3 18th May

Bottom footage - 9350

Lithology Siltstone + coal 8670 - 9120'
 Sand 9120 - 9150'
 pale brown fluorescence, no cut, low gas readings
 Siltstone 9150 - 9200
 Sand 9200 - 9250
 no fluorescence - low gas readings but
 a trace of C₄ - C₃ (100-300) C₂ (upto 1000) C₁ (to 2000)

- If any shows are encountered they will start coming - if not will occur on cut but at 9680
 at that time they will probably run
 logs - IES, Neutron, Density & gamma ray.



① Detector del

② IEC del 78h

Daily Report Blanca 3

390020

19th May 72

Bottom 9350'
troubled with weather.

Conductivity sound (gas cut)

up to 40,000 - C,

HW 100

- pulled out - & making up
core barrel -

Start coming this afternoon

plus 60' of core.

possibly logging after core

J.

Return 3

390021

22/5/76

18/2
JCL

Bottom Footage - 9397

IEC

run in hole for core 2.
sample 90' diameter

Core 1 - to 9397

100% recovery

1 - 5' sandstone

majority thin sand & shale
Sands tight

Slight porosity
no cut.

after core - logged

near IES - 9349 - 304'

Summary Rpt / Sample log: 9348 - 5700
L 9/12 to 304'

Top Devonian Staff 54.64'

top Devon SS 58.67'

770' the pedestal.

area F175.

(1) ~~9191~~ 9191

had seen for 2 minutes
 had come away only
 recovered area

(2) 9190'

no recovery - probably
 up against slate sheet

(3) in tight sand

9173.

- tight lock.

hope to see F175.
 but strike a work boat.
 no indication of abnormal
 pressures.

390023

Bunny Bryan - Hematite

See

22/5/72
P8/2

Depth 9475

Coring no 3. in process

but core no 2 - 9397 - 9460

Recovered - 63 ft

Top 21 ft - Sandstone
very fine
to med
slight flour.

Core below - Interbedded
sands &
shales
Sands tight
- No indications
of flour.

390024

Beam hole - run logs
Some more F.I.T.

Daily Report Pelican 3.

24/5/72

Core 3. - 9460 to 9521
100% clayey

Shale, - sandstone interbedded

① S 9467 - 77 - light grey
upper - fine
clay matrix
fossil -
gda brown flowers
weak cut

② Sandstone 9486.6 - 9504.6"
upper - medium silty
- better cut - shaly
gda brown flowers
numerous foraminifera (possibly calcareous)

possibly

near to 9521

& possibly in logs. But probably
not finally decided yet

of

IEC

390026

PRH

Daily Report

Run 3.

25 May 72.

Bottom depth 9526'
at present fishing

recovered 2 new IES 9518 - 8515'

Final temperature 9518 - 9270

Brook catch from off log
1 mui mill at out.

log indicates sand 9401' - 9431'
corresponds to sand in Core 2 - 9397' - 9418'

then FITS at 9416' & 9425'
& then continue coring.

J.

Daily Report

Pelican 3.

26/5/72

TD 9534'

Circulating & accepting mud

Run 3 FITS.

No 4 9418'

- .8 c. per gas.

6100 water.

Pressure information indicates high pressure

TIP 5143' rising

No 5 9425'

- tight

lost seal

no recovery

No 6 9421' - mud clacker mud only.

aggregating clacker

Believed to have sample

to be opened at Camp's Beach

TIP 5252 PSI

Bottom Hole Temp. 217° F

Well now more FITS.

g.

IEC

4:45 pm

390028

F. J. P.

pg 1/2

Relua 3

26/5/62

No real decisions made yet except
to run more FITS both higher &
lower than than up to date. - The user
probably take most of the weekend
& the machine ESS user have to
make a decision for the further &
this user probably be with :-

(1) They & abandon

(2) base & test

or

(3) base & decision

Hamalite user contact me at home
if there are any further developments

J.

No drilling progress since last report.

During the weekend a number of fractures internal to the lower hole seen - this can set out below:-

FIT NO.	Depth.	Description
7	9498'	Slow build up of pressure, no recovery.
8	9235'	1/2 minute to fill - pressure Shut in pressure 5300 Agnew hydrostatic 5845 Final SIP 4965.
9	9425'	discovered 7 cubic feet gas in main chamber - segregating chamber filled in 1 minute. SIP. 4650 Schumburg 5250 Agnew.
10	9237'	no pressure in both chambers - no recovery.
11 -	9187'	} failure
12 -	9119'	
13.	9234'	Slow pressure build up. - Similar to segregation. SIP. 5000 Schumburg 4961 Agnew Final SIP 4900 Schumburg 4841 Agnew
14	9424'	mechanical failure.

15

9424

Segregated Jelled naturally
 In the SIP. 5270 Seltzerberg
 5278 Agnew

16

8964

Slow build up.
 Same as Segregated.
 SIP. 4330 Seltzerberg
 4455 Agnew.

Present position - On better conditions under
 more full out + run logs + sidewalk
 cores.

J

Daily Report

Run 3.

30/4/72

Bottle with shot - 9534'

Run lateralog & micro-lateralog

Attempted Sonar log line & abandoned

Run 2 guns of sidescan cones

Shot 60 & recovered 49

between strong shot & bottle of hole

(no footage available at time of report)

Present activities - pulling out of hole
to new casing.

Future - working in direction where
will probably be well! -

- (1) Test
- (2) Drill ahead
- (3) core ahead

J

1 PMJ
2 IEC

390032

pg 2

Daily Report

Well 3.

31st May

Progress. - Run 35 joints of 9 7/8" casing.

Further plans - Test well - decision made
not to drill ahead.

Test intervals not known previously by
Hamblet but thought to be

9184 - 9200

9211 - 9243.

Learn too permeability tests on sidewall
cores between 9350 - 9500 indicate very
low permeability < .1 ml Darcy =
this together with lack of flow into FITs
appears to indicate that the prospects
are not good.

Decision as to Well 4 is
still uncertain but Hamblet appears
hopeful that this will be the next well

af

DMS W
IFC JLP

390033

P 8/2

1/June/72

Press release for today to Stock
Exchange will say: -

Esso BHP announce that Pelican 3
is at 9534'. After some closing
- cementing. During the past week
small amounts of hydrocarbons were
recovered in formation interval tests. The
significance of them must await
further analysis & testing.

JLP

IEG
PMJ.

PS/2

390034

Daily Report

Release 3.

1st June 92.

T.S. 9535' - 9537'

① Ran a cemented 9 5/8 casing to 9503' setting on cement.
Then ran to log, perforate & rig up.
Expect to test about Sunday.

② perforation in Release 4 being postponed
tentative date 11th June.

request no press release re Release 4
at this stage

Will notify Latic today of their routine
weekly stock exchange report

gf

(1) Director

390035

PS/2

(2) IEC ^{dep}

Daily Report

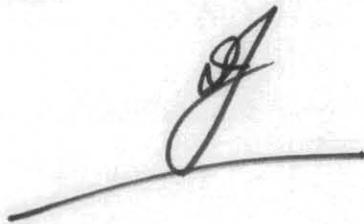
Recom 3 -

2/6/72

No progress to report.

Tubing in position, pressure tests
carried out - expect to set
packer today & should be
at testing stage tomorrow.

Dependant upon weather.



9

D. Smeeta

② IEC ~~②~~

Daily Report Plan 3

6/6/72

No progress to report. Having
difficulty setting packer - hope
to get it set sometime today -
loading may start tomorrow.

J

Q

① Insects
② IEC.

F. J. P.

390036A.

pp 2

Daily Report

Belmont 5.

7th June 72.

Ran & set back at 9085'
preparing to start tubing & surface
equipment.

Expect to perforate tomorrow if
weather & tubing is suitable.

J

4

Daily Report.Run 3.8th June

Perforation at 2.45 AM with 4 shots
per foot over the interval 9184' to 9242'

Tool opened at 7.18 AM.

flow $1\frac{1}{2}$ barrels/minute
 tubing pressure 55 psi - this was
 just the water cushion & not formation
 fluids.

at 9.18.

flow 5 gals/minute
 pressure 0.

No formation fluids or gas has come
 to surface & well is essentially dead.

Q

① Director
② IEC

390038

Daily Report

Section 5.

9/6/72

Flowmeter well from 7:18 AM until 14:00 hrs.
Shut in well 17:00 hrs.

Attempted to kill well & pump pack cement at rate of barrels/hour at 4100 psi attempting to squeeze casing but cement flow set & procedure abandoned.

Attempt to pull tubing & run a plug above the packer. They can then attempt to dump cement onto plug for 10-200 feet & abandon well after setting other plugs.

Downy test gas flow at average rate of 7 bbl/hour one test period.

Minimum gas needed 1320
330,000 - C₁ units
18,000 - C₂ units
6,000 - C₃ units
1,500 - C₄ units

(Note - units above - 50 units = 190, in air & is therefore a very small amount).

Expect to complete abandonment procedures during week-end & proceed to Polaris 4. This may be later than proposed date of 12th May but they will advise.

JR

HEMATITE PETROLEUM PTY. LIMITED

WEEKLY DRILLING REPORT

Pelican-3

390040

Tenement Number T.6P
Operator Esso Australia Limited
Drilling Unit Glomar Conception
Well Pelican-3
Date of Report 11th May, 1972
Location Latitude 40°15'43.228"S
Longitude 145°51'50.670"E
Water Depth 263 feet
Progress
Current 7672
Previous 3080
Progress 4592 feet

Operations

The 20 inch hole was drilled to 3080 feet and 13 $\frac{3}{8}$ inch casing run and cemented at 3029 feet on 6th May. Drilling continued thereafter and the 12 $\frac{1}{4}$ inch hole was taken to 7672 feet on the report date.

Geology

2030 to 2670 feet Skeletal Limestone.
2670 to 3750 feet Marl medium to dark grey
3750 to 4410 feet Siltstone grey slightly calcareous with possible thin marl interbeds and shale towards base.
4410 to 4920 feet Shales medium grey to olive grey with siltstone interbeds and very fine grained sandstone towards base.
4920 to 5880 feet Siltstones and Sandstones interbedded, siltstones, medium to dark grey calcareous becoming greenish with depth; sandstone buff to light brown quartzose very fine grained calcareous.

5880 to 7672 feet

Sandstones to Siltstones interbedded sandstone dark red-brown fine to medium grained quartzose, grains sub-angular, some very coarse to granule grade sands in interval 6000 to 6060 feet, below a coal bed 6210 to 6240 feet sandstones pale brown, buff to white fine to medium grained non-calcareous. Siltstones medium to light grey, brown-grey sometimes olive grey slightly pyritic, siltstones are the dominant lithology below 6240 feet and they are brown-grey fossiliferous pyritic and carbonaceous.

Coals are black throughout the section and occur at 6210 to 6240, 6740 to 6770, 6880 to 6910, 6950 to 7000, 7080 to 7100, 7160 to 7170, 7190 to 7200, 7320 to 7330, 7450, 7520 and 7610 feet.

Shows

No shows were recorded during the report period, gas detector readings up to 2000 units C_1 were recorded at 5050 to 5120, varying amounts of C_1 were detected over the hole in the range 100 to 600 units. Gas readings of C_1 up to 10,000 units were recorded opposite the coal intervals.

WRB
BRB/bw
12/5/72

390042

Tenement Number	T.6P
Operator	Esso Australia Limited
Drilling Unit	Glomar Conception
Well	Pelican-3
Date of Report	18th May, 1972
Location	Latitude 40°15'43.228"S Longitude 145°51'50.670"E
Water Depth	263 feet
Progress	
Current	9351
Previous	7672
Progress	<u>1679 feet</u>

Operations

Drilling of the 12 $\frac{1}{4}$ inch hole continued during the report period and the well had reached 9351 feet on the report date. Preparations for coring from 9351 feet were in progress late on 18th May after minor gas cutting of the the mud was observed on running in the hole.

Geology

7672 to 8670 feet

Sandstones and interbedded Siltstones.
Sandstones light brown to white quartzose very fine to medium grained occasionally coarse grained; grains angular to sub-rounded. Siltstones interbedded in range 30% to 50% of total section are dark brown carbonaceous. Interbedded coals are less evident between 7800 feet and 8230 feet.

8670 to 9351 feet

Siltstones with Sandstones.
Siltstones grey-brown and grey non-calcareous slightly carbonaceous in part, shale interbeds below 9060 feet. Thin coals occur at 8790, 8850, 8860, 8950, 8985-8995, 9040-9050 feet. Sandstones occur at 9120-9150 feet, 9200-9250 feet and are brown to white quartzose. Very fine grained to fine grained, rounded, well sorted, poorly cemented.

Shows

No shows were observed during the drilling of the above section. Spottly fluorescence occurred in a coal at 8860 feet and fluorescence was observed in the sandstone 9120-9150 feet, the sandstone 9200-9250 feet showed a trace of C_4 on the gas chromatograph.

Gas cut mud was circulated out of the hole after the trip at 9351 feet. The chromatograph indicated up to 40,000 units C_1 .

BRB

BRB/bw
19/5/72

WEEKLY DRILLING REPORT

390044

Tenement Number	T.6P
Operator	Esso Australia Limited
Drilling Unit	Glomar Conception
Well	Pelican-3
Date of Report	25th May, 1972
Location	Latitude 40°15'43.228"S Longitude 145°51'50.670"E
Water Depth	263 feet
Progress	
Current	9534
Previous	9351
Progress	<u>183 feet</u>

Operations

The 12 $\frac{1}{4}$ inch hole was extended to 9534 feet. Three cores were taken over the interval 9351 feet to 9521 feet. Two logging operations were carried out, the first when the depth was 9351 feet and the second when the hole was 9521 feet. The IES log was run over intervals, 9349 to 3041 feet and 9518 to 8515 feet and the GR FDCNL combination log was run 9348 to 5700 feet gamma ray to 13 $\frac{3}{8}$ inch casing shoe and 9518 to 9240 feet. A caliper arm was lost from the combination tool on the second run and was milled. Six Formation interval tests were run, only one was known to have recovered hydrocarbons.

At the report date the hole was being circulated and mud weighted. Mud weight going in hole was 10.7 lbs/gal and coming out 10.5 lbs/gal.

explain gas?

JUN 1972

Geology

The following provisional formation tops have been provided from site :

Top Demon's Bluff Formation	5464 feet DD
Top of "Boonah Sand"	5876 feet DD

9351-9397 feet Core No. 1. 100% recovery

8 feet Sandstone very fine to medium grained, very hard, tight clay choked, dull gold-brown fluorescence no visible cut.

Remainder of core Sandstone and Shale thinly interbedded.

9397-9460 feet Core No. 2. 100% recovery

9397-9418 feet Sandstone quartzose, fine to medium grained, clay matrix, slightly calcareous hard to slightly friable minor carbonaceous shale; dull gold-brown fluorescence. 9418-9419ft. 6ins. Shale with minor sandstone.

9419ft. 6ins. - 9425ft. 6ins. Sandstone as above.

9425ft. 6ins. - 9460 ft. Shale and Sandstone thinly interbedded in 1ft. 6ins. to 5 ft. beds becoming more thinly bedded with depth, beds 2 ins.

9460-9521 feet Core No. 3. 100% recovery.

9460-9467 feet Shale and Sandstone

9467-9477 feet Sandstone light grey, very fine grained to fine grained, clay matrix, silty, tight carbonaceous shale streaks; gold-brown fluorescence.

9477-9486ft. 6ins. Shale and Sandstone.

9486ft. 6ins. - 9504ft. 6ins. Sandstone very fine grained to medium grained silty; stronger fluorescence than above.

9504ft. 6ins. - 9521 feet. Shale and Sandstone.

Shows

Sandstone in cores all display dull gold-brown fluorescence and give variable cuts when extracted with organic solvents.

Formation Interval Tests

- FIT No. 1 9191 feet -
Lost seal, recovered mud.
- FIT No. 2 Initial Hydrostatic 5168 psi.
No recovery.
- FIT No. 3 9273 feet tight test. No recovery.
- FIT No. 4 9418 feet.
Recovered 0.4 cu.ft. gas in main chamber
and 4,000 cc water in segregator
recovered 0.4 cu.ft. gas, 2100 cc water
- Initial Hydrostatic 5325 psi
Shut-in 5143 psi (rising)
- FIT No. 5 9425 feet tight, lost seal
- FIT No. 6 9421 feet
Recovered 22,000 cc mud in main chamber,
segregator sample not determined at
this time.
- Initial Hydrostatic 5315 psi
Shut-in 5252 psi

hsh.
020

WEEKLY DRILLING REPORT

390047

Tenement Number	T.6P
Operator	Esso Australia Limited
Drilling Unit	Glomar Conception
Well	Pelican-3
Date of Report	1st June 1972
Location	Latitude 40°15'43.228"S Longitude 145°51'50.670"E
Water Depth	263 feet
Progress	
Current	9537
Previous	9534
Progress	<u>3 feet</u>

Operations

Logging continued to 29th May and included FITS 7 to 16, a dipmeter survey, Laterolog-7, Microlaterolog and a velocity survey. Two attempts to run the Sonic Log failed and that operation was abandoned. Mud weight was increased from 10.6 lbs/gal. to 11.6 lbs/gal and 9-5/8 inch was run and cemented at 9503 feet on 31st May. At report date, the well was waiting on cement prior to production testing.

Geology No additional information

Shows No additional information

Formation Interval Tests

FIT-7	9498 feet	Nil recovery
FIT-8	9235 feet	Segregator sample recovered for later analysis. No indication of nature of fluids.

Pressure Data

	<u>Schlumberger</u>	<u>Agnew</u>
IHP	-	5545 psi
ISIP	5300 psi	5067 psi
FSIP	5270 psi	4965 psi
FHP	5930 psi	5534 psi

FIT-9 9425 feet Recovered 0.7 cu.ft. gas
7000 ccs water in main chamber
segregator closed.

Pressure Data

		<u>Schlumberger</u>	<u>Agnew</u>
	IHP	5250 psi	5753 psi
	ISIP	4650 psi	5250 psi
FIT-10	9237 feet	Recovered trace mud and 100 ccs water	
FIT-11	9187 feet	No seal. Recovered Mud	
FIT-12	9119 feet	No seal.	
FIT-13	9234 feet	Segregator sample for later analysis, no indication of nature of fluids recovered.	

Pressure Data

		<u>Schlumberger</u>	<u>Agnew</u>
	IHP	-	5642 psi
	ISIP	5000 psi	4961 psi
	FSIP	4900 psi	4841 psi
	FHP	5700 psi	-
FIT-14	9424 feet	Tool failure	
FIT-15	9424 feet	Segregator sample only, no indication of nature of fluids recovered.	

Pressure Data

		<u>Schlumberger</u>	<u>Agnew</u>
	IHP	5950 psi	5759 psi
	ISIP	5270 psi	5248 psi
FIT-16	8964 feet	No recovery	

Pressure Data

		<u>Schlumberger</u>	<u>Agnew</u>
	IHP	5570 psi	5459 psi
	ISIP	4330 psi	4455 psi

WEEKLY DRILLING REPORT

390049

Tenement Number T.6P
 Operator Esso Australia Limited
 Drilling Unit Glomar Conception
 Well Pelican-3
 Date of Report 8th June, 1972
 Location Latitude 40°15'43.228"S
 Longitude 145°51'50.670"E
 Water Depth 263 ft

Progress

Current	9137
Previous	9137
Progress	<u>NIL</u>

Operations

Prepared well for production testing. Ran and set packer at 9085 ft and perforated 9184 to 9243 feet with four shots per foot. Flowed well on 8th June from 0715 hours to 1400 hours. The well was shut in until 1700 hours and killed. Attempted to squeeze and cement flash set. At report date tubing was being pulled prior to setting plugs for abandonment.

Shows

No hydrocarbons were recovered during the test. At 1330 hours, maximum gas readings were :

330,000 units	C ₁
18,000 units	C ₂
6,000 units	C ₃
1,500 units	C ₄

Flow rate over the test averaged 7 barrels per hour.
 Final shut in pressure was 880 psi.
 Flowing tubing pressure was 10-24 psi

BRB
 BRB/bw
 9/6/72

Tenement Number T.6P
Operator Esso Australia Limited
Drilling Unit Glomar Conception
Well Pelican-3
Date of Report 15th June, 1972
Location Latitude 40°15'43.228"S
Longitude 145°51'50.670"E
Water Depth 263 feet
Progress
Current 9537 feet
Previous 9537
Progress NIL

Operations

Cement plugs were set in 9-5/8 inch casing from 9040 feet to 8648 feet; 2319 to 2040 feet above a bridge plug at 2319 feet and straddling an annulus squeeze job at 2306 to 2308 feet. Cement plug no. 3 was 695 to 402 feet. The rig was released at 0700 hours on June 13, 1972 after pulling the well head.

HS
BRB/bw
16/6/72

ABANDONMENT PROCEDUREPELICAN-3

The following abandonment plugs should be set in Pelican-3:

<u>Plug No.</u>	<u>Interval (MD - KB)</u>	<u>Cement</u>	<u>Remarks</u>
1.	9030-8730	105 sx Aust. 'N' with .7% HR-12	Pull back and set plug No. 2.
2.	2300-2000 (3030-2300 in 9-5/8" x 13-3/8" ann.)	330 sx Aust. 'N'	Pull back and set plug No. 3.
3.	600-360	85 sx Aust. 'N' with 2% CaCl ₂	Feel for top of plug after setting.

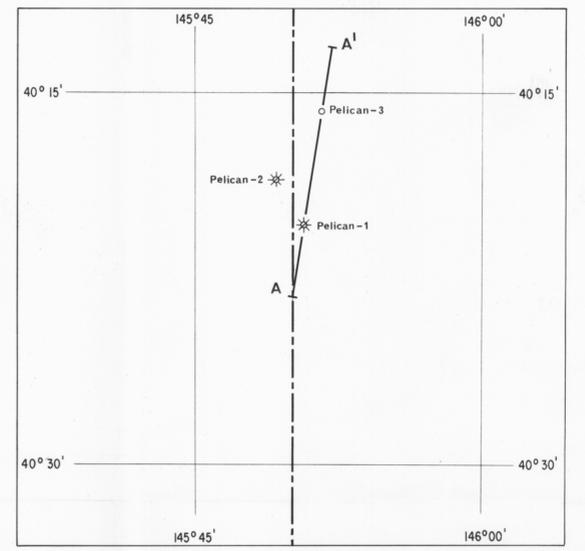
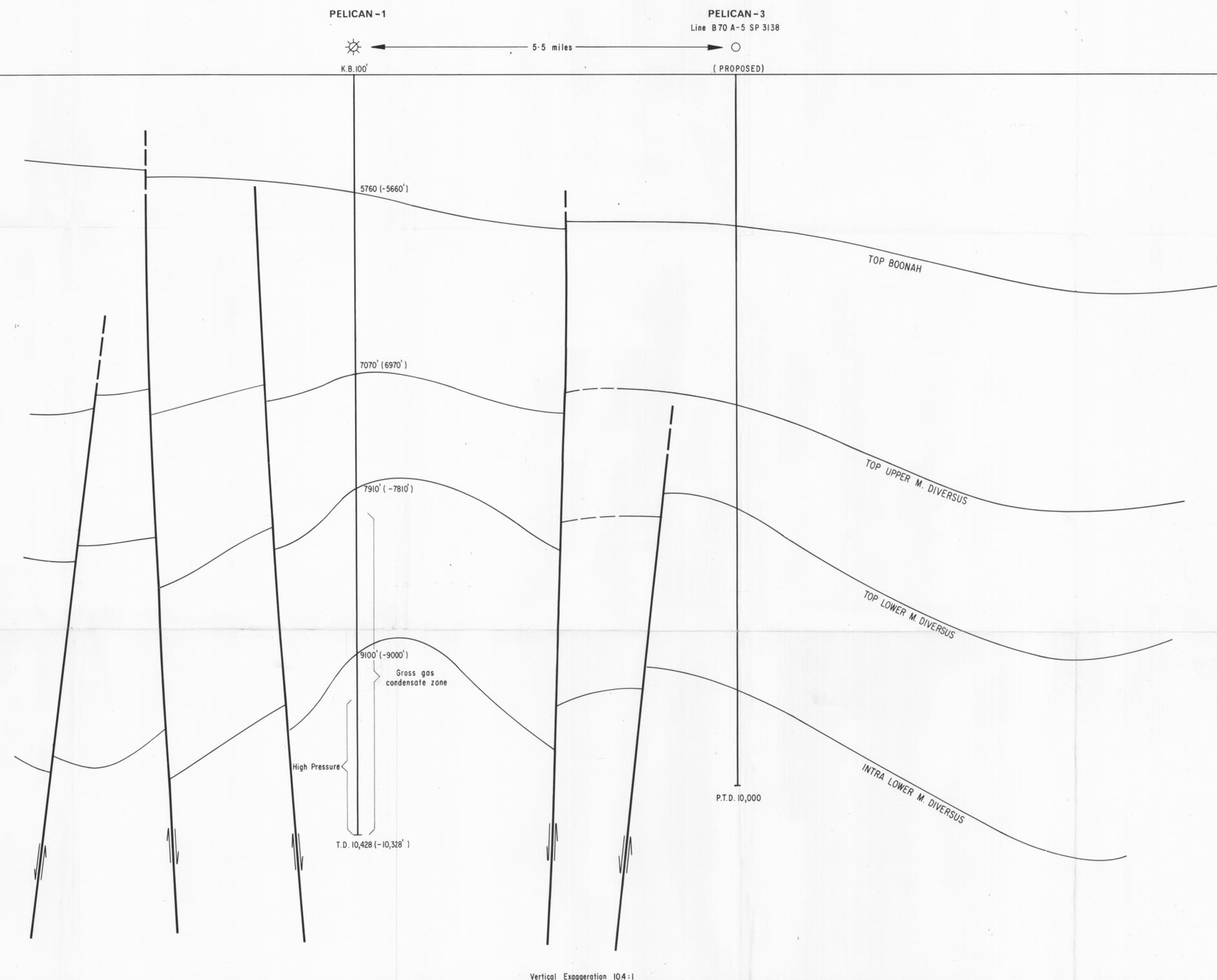
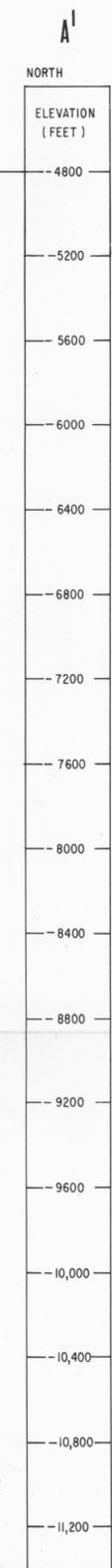
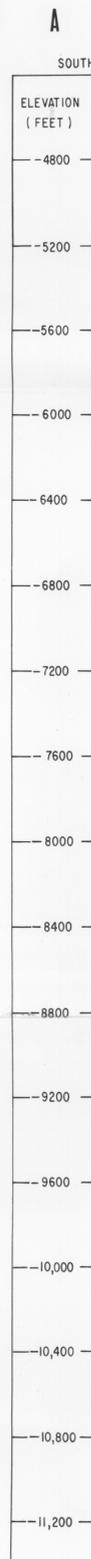
Before final abandonment, the subsea wellhead should be salvaged by shooting off at approximately 50 feet below the mud line.

* * *

[Signature]
Area Technical Manager

[Signature]
Area Operations Manager

[Signature]
Area Manager



ESSO EXPLORATION AND PRODUCTION AUSTRALIA INC.

BASS BASIN
TASMANIA

5 cm

PELICAN FIELD
GEOLOGICAL CROSS SECTION A-A'
THROUGH PELICAN-1 & PROPOSED PELICAN-3
ON NORTH BLOCK

INTERPRETATIVE

Vertical Scale 1 Inch = 400 Feet
Horizontal Scale 1:50,000

390052

1 0 1 2
MILES

AUTHOR: A.P. WHITTLE
BASED ON STRUCTURE MAPS
AFTER BORDELON, EYLES

DRAFTED BY: HOVICK

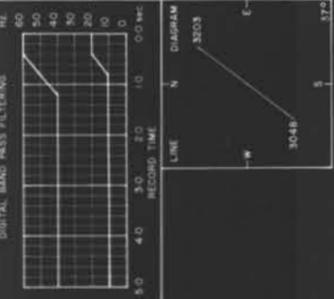
DATE: OCTOBER 1971
REVISED DATE FEBR 1972

TO ACCOMPANY: AUTHORIZATION TO DRILL-
PELICAN-3

Enclosure 1

Dwg. 1419/0P/6

CR-333A



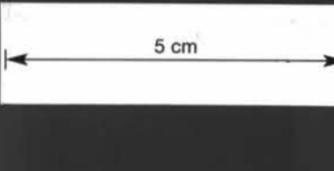
GEOPHYSICAL SERVICE INTERNATIONAL
DIGITAL PROCESSING CENTRE
SYDNEY, NSW, AUSTR.

PROCESSING DATA
Groups processed: 1-48
TAP B: 14 db, 3.5 db/sec
Vertical stack: Odd/Even
Design gate (trace 1): 2200 to 4900 ms Gate shift: 78 ms/trace
Design gate (trace 2): 300 to 4500 ms Gate shift: 0 ms/trace
Digital filter: 35 pts, 4 ms
Display: 35 pts, 4 ms
Priority display: Row, Col, Negative
TIAC REQUEST: 698
INPUT CREW PARTY: BSI

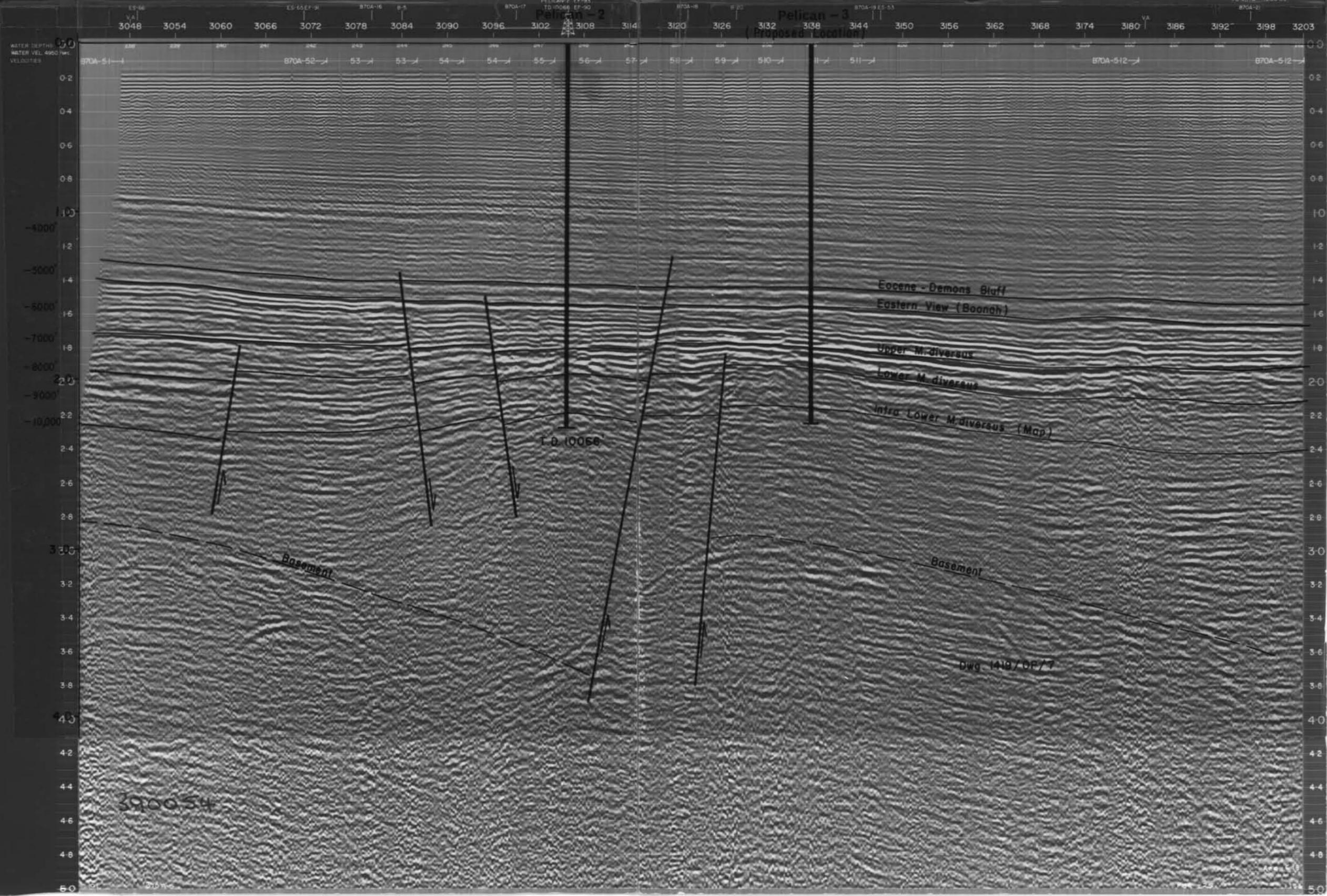
VES
NMO: 2
AR2: 1
TVS: 3
DCN: 3
TVD: 5
DCN: 1
DGF: 6
TVF: 6
600 mg

ESSO STANDARD OIL (AUST) LTD.

AREA: BASS BASIN
RECORDING PARAMETERS
LINE: B70A-5
Source: AIRGUN
Array size: 860
Array type: 4
Shot offset: 48
Cable length (centre of sp. to centre of sp. 48): 7708
Group interval: 164
IO: geophones/trace
Recording system: DFS III
Recording length: 5
Schedule: 4
Date: DEC 1970



LINE B70A-5 SCALE RATIO: 3.58/AT 1.0 SEC
600 PACKAGE
LINE B70A-5 SCALE RATIO: 3.54/AT 1.0 SEC
NE
24 FOLD STACK
TVD: 20-60 Hz 400 ms
15-55 Hz 600 ms
10-50 Hz 800 ms
10-40 Hz 1200 ms



Enclosure 3



DIGITAL BAND PASS FILTERING

ENCLOSURE 4

AREA: BASS BASIN
RECORDING PARAMETERS: LINE B70A-19
Source: AIRGUN SP 1843 to 2221
Array size: 860 ch. II, 2000' offset
4. Peak 100' Spot off gross 48
Cable length (centre of sp. to centre of sp. 48) 7708 ft
Offset (array centre to centre of group 48) 8408.43 ft
Group interval: 164 ft
10. geophones/gross: 100
Recording system: DFS III
Filter: 8 to 62 Hz
Recording length: 5 sec
Field crew: 909 Date: DEC 1970

PROCESSED DATA: Sample period 4 ms
Groups processed 1-48
TAR B: 14 db, 3.5 db/sec
Vertical stack: Odd/Even
Decompile before stack: DCN 66, 4 ms, No. of gates/tracks 1
Decompile after stack: TVD 64, 4 ms, No. of gates/tracks 2
Design gate (trace I): 2200 to 4900 ms, Gate width: 78 ms/tracks
Design gate (trace II): 300 to 4600 ms, Gate width: 0 ms/tracks
Digital filter: 35, 4 ms
Digital AGC: 2
Priority displayed: Positive □ / Negative ■
TIAC REQUEST: 621
INPUT CREW PARTY: 851
Hold time: 4213
Date: MAR 71

