

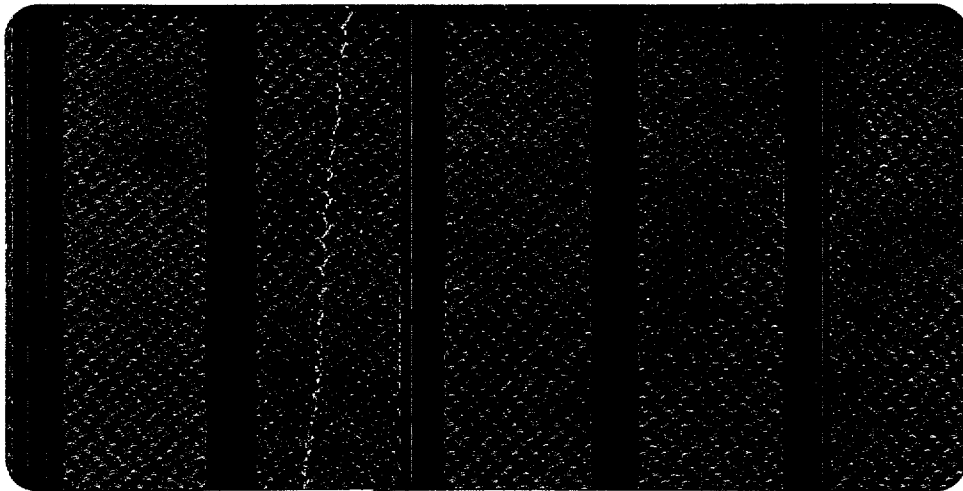
# APPENDIX 2

12 DEC 1985

DEPT. NAT. RES & ENV



PE906218



**OIL and GAS DIVISION**

OMEQ NO. 2A

12 DEC 1985

FINAL TECHNICAL REPORT

W907

OP-23/85

P. ORMEROD  
1985

SUMMARY

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**F3a** Bis 2-78**WELL DATA**WELL: OMEQ 2A

1) WELL NAME : <u>OMEQ 2A</u>	2) IDENT.: <u>OMEQ 2A</u>
3) GEOGRAPHICAL AREA : <u>AUSTRALIA</u> <u>BASS STRAIT</u>	4) GEOLOGICAL BASIN : <u>GIP ISLAND</u>
5) FIELD : _____	6) BLOCK : _____

7) PERMIT/HOLDERS :	8) PARTNERS :
<u>VIC P17</u>	
<u>AUSTRALIAN</u>	<u>CONSOLIDATED PETROLEUM (AUST)</u> 12.5
<u>AQUITAINE</u>	<u>ALLIANCE RESOURCES PTY. LTD.</u> 5
<u>PETROLEUM (AAP)</u>	<u>AAP (OPERATOR)</u> 82.5

9) OPERATOR : <u>AUSTRALIAN AQUITAINE PETROLEUM PTY. LTD</u>	11) REFERENCE WELLS : Name <u>OMEQ 1</u>
---	--

10) INITIAL STATUS	12) LOCATION COORDINATES
Exploration <input checked="" type="checkbox"/>	Development <input type="checkbox"/>
Other <input type="checkbox"/>	
Land <input type="checkbox"/>	Offshore <input checked="" type="checkbox"/>
Swamp <input type="checkbox"/>	Other <input type="checkbox"/>
site	geographical coordinates
	Latitude <u>38° 36' 21.864" S</u>
	Longitude <u>147° 42' 38.364" E</u>
	reference meridian
	Paris <input type="checkbox"/>
	Greenwich <input type="checkbox"/>
	LAMBERT coordinates
	X(m) <u>561850.6</u>
	Y(m) <u>5726649.7</u>
	Z(m) _____

SITE	LAND	OFFSHORE	SWAMP	OTHER
Distance RKB/REF.		<u>84</u>	<u>52</u>	
Reference	GROUND	MUD LINE	ZERO HYDRO	

13) DRILLING OBJECTIVES				
Objective n°	Formation	Formation tops vertical depth	Departure	Direction
<u>1</u>	<u>LATROBE</u>	<u>+/- 3070 (RKB)</u>		
<u>2</u>	<u>TOP LATROBE CLASTICS</u>	<u>2325 (RKB)</u>		

14) WELL COURSE	15) WAS THE OBJECTIVE REACHED ?
Vertical <input checked="" type="checkbox"/>	Deviated <input type="checkbox"/>
Normal <input type="checkbox"/>	Scourse <input type="checkbox"/>
	yes no
	FORMATION TOPS VERTICAL DEPTH
	DEPARTURE
	DIRECTION
	OBJECTIVE 1 <input checked="" type="checkbox"/> <input type="checkbox"/>
	OBJECTIVE 2 <input checked="" type="checkbox"/> <input type="checkbox"/> <u>2335 M</u>
	OBJECTIVE 3 <input type="checkbox"/> <input type="checkbox"/>
	OBJECTIVE 4 <input type="checkbox"/> <input type="checkbox"/>

16) RESULTS	<input type="checkbox"/> Oil production	<input type="checkbox"/> Shows but no reservoir	<input type="checkbox"/> Temporarily plugged
<input type="checkbox"/> Gas production	<input type="checkbox"/> Injection well	<input checked="" type="checkbox"/> Plugged and abandoned	
<input type="checkbox"/> Water production	<input checked="" type="checkbox"/> Dry well	<input type="checkbox"/> Completed	

17) DATES (·)	18) WELL END (··)
BEGINNING	END
Well <u>10 MAY 1985</u>	Drilling <u>20th JULY 1985</u>
Drilling: <u>12 MAY 1985</u>	Well <u>26th JUNE 1985</u>
Total depth : <u>3400 M</u>	Vertical depth : _____
Drilled footage : <u>3316 M</u>	Lost footage : _____
Total departure : _____	Direction : _____

TOTAL DURATION	19) COSTS	CURRENCY UNIT
Drilling : <u>40</u> days	Before drilling <u>1,503,000</u>	<u>AS</u>
Well : <u>46</u> days	During drilling <u>7,338,000</u>	<u>AS</u>
	After drilling <u>339,000</u>	<u>AS</u>
	Total well <u>9,180,000</u>	<u>AS</u>
	NB: EXCLUDING INSURANCE AND OVERHEADS	

Area management : AUSTRALIAN AQUITAINE PETROLEUM PTY. LTD.

Located : 99 MOUNT STREET, NORTH SYDNEY - N.S.W. 2060  
P.O. BOX 725

Land Base : AQUITAINE WELSHPOOL SHOREBASE  
MIDLAND HIGHWAY

Located : WELSHPOOL, VICTORIA 3966

• **SERVICE COMPANIES**

- Mud	: <u>BAROID</u>	- Under water T.V.	: <u>DIAMOND II</u>
- Mud logging	: <u>EX LOG</u>	- Testing	: <u>HALLIBURTON</u>
- Production tests	: <u>FLOPETROL</u>	- Well head	: <u>CAMERON</u>
- Fishing	: <u>TRI-STATE</u>	- Depollution	: <u>A. E. P.</u>
- Positioning	: <u>RACAL SURVEY</u>	- Air transportation	: <u>LLOYD</u>
- Electrical logging	: <u>SCHLUMBERGER</u>	- Sea transportation	: <u>ATLAS OFFSHORE</u>
- Meteo	: <u>BUREAU OF METEOROLOGY - MELB.</u>		
- Diving	: <u>SUBSEA INT'L</u>		
- H.P. Pumping	: <u>HALLIBURTON</u>		
- Bulking	: <u>BAROID</u>		

Beginning of well = first moving in date (if this date is known)

Beginning of drilling = spudding date

End of drilling = date of last bit pulling out or end of electrical logging operations, or pressure surge at the end of production casing cementing operation

End of well = end of well plugging operations laying down included or end of completion

\*\* - Depths to be calculated from the rotary table

- Drilled footage: distance RKB/ground (or mud line) not included, but side tracks resulting from fishing included

- Lost footage resulting from fishing or course modification without changing the geological objective. Should the geological objective vary, well name or number will change, and the previous well drilled footage is not considered as a lost footage

- Except change in geological objective requiring a side track, the formula is: Drilled footage - Lost footage = Total depth - Distance RKB/ground

• AREA •

LAND

SEA

SWAMP

LAKE

ALTITUDE : SEA LEVEL

WATER DEPTH : 62 M

DISTANCE FROM BASE : 105 Km

DISTANCE FROM SHORE : 51 Km

• RELIEF

Flat

Slightly undulate

Undulate

Very undulate

• SEA CONDITIONS

Calm

Medium

Strong

Very strong

• POLLUTION RISK

Low

Medium

High

Very high

• WEATHER

Equatorial

Hot

Temperate

Cold

Arctic

• POPULATION DENSITY

Nil

Low

Medium

High

Very high

MEANS USED

• NAME OF THE RIG (LAND) :

• SUPPORT

• TYPE

Land

Artificial island

Jack-up

Drillship

Semi-submersible

Swamp barge

Non assisted Platform

Assisted platform

Tender

Other

• SEA SUPPORT NAME : DIAMOND H EPOCH

• PROPULSION:

Towed

Self propelled

{ Power :  
Speed :

• POSITIONING

Mooring

Classical

Dynamic

Head : 243 Deg

• **DRILLING EQUIPMENT** •

**DRAWORK MANUFACTURER** OILWELL E-3000 **CONTRACTOR :** DIAMOND M CO.

• **RANGE** •      Light       Medium       Heavy       Super Heavy       Extra Heavy

• **TRANSMISSION** •      Mechanical       Electric       Hydraulic

• **MAIN PUMPS** •      Number  2 EMCSO A1700 PT      Total hydraulic power : 2294  HHP

• **RIG DESIGN** •      Normal design       Compact       Portable       Helirig

Flexorig       Automatic racking       Winterised

• **SURFACE OR SUBSEA EQUIPMENT**

<u>B.O.P. STACK</u>	<u>Diameter</u>	<u>API WP</u>
Number 1	18 $\frac{3}{4}$ " <u>2 x DOUBLE TYPE VII</u>	<u>CAMERON 10000</u>
Number 2	18 $\frac{3}{4}$ " <u>2 x TYPE D ANNULARS</u>	<u>CAMERON 5000</u>
Number 3	_____	_____

<u>WELL HEAD</u>	<u>Manufacturer</u>	<u>Type</u>	<u>Diameter</u>	<u>API WP</u>
Number 1	<u>CAMERON</u>	18 $\frac{3}{4}$ " <u>WELLHEAD HOUSING + PILE JNT EXTENSION</u>	<u>18<math>\frac{3}{4}</math>"</u>	<u>10000 PST</u>
Number 2	_____	24" x 18" (3" WALL)	_____	_____
Number 3	_____	_____	_____	_____

**MUD LINE SUSPENSION:**       yes       no      **Manufacturer :** \_\_\_\_\_

<u>RISER</u>		<u>Number 1</u>	<u>Number 2</u>
<b>Diameter</b> :	21" OD (0.5" WALL)	_____	_____
	CAMERON RCK	_____	_____
<b>Connector</b> :	CIW COLLET CONNECTOR	_____	_____
<b>Buoyancy system</b> :	no <input checked="" type="checkbox"/> yes <input type="checkbox"/>	_____	no <input type="checkbox"/> yes <input type="checkbox"/>

F3C Bis 2-78		TECHNICAL SECTION					WELL : CNEO 2A
• OPEN HOLE SECTIONS •		• CASINGS •					
DIAMETER	TOTAL DEPTH	DIAMETER	COMPOSITE STRING DIAMETERS	SHOE DEPTH	HANGER DEPTH	TOP CEMENT IN ANNULUS	
26"	265 M	20" 133 Lbs/Ft	LANDING STRING 5 IWDP	249 M	81.15	SEABED	
17½"	1068 M	13-3/8" 68 ppf K55		1062 M	84.02	120M TEMP LOG	
12¼"	2806 M	9-5/8" 47 ppf N80		2796 M	83.65	TEMP LOG & CBL 1915 M	
8½"	3400 M						







**F3d'** Bis 2-78

**FORMATION TEST SUMMARY**

WELL : OMEQ 2A

Test N°	Date	Type of test *	Tested interval		Successful		Reason of failure (**)	Observations
			from ft or m.	to ft or m.	Yes	No		

- \* TOHP - Test open hole full diameter
- TOHR - Test open hole - rat hole
- STOHP - Straddle test open hole full diameter
- STOHR - Straddle test open hole rat hole
- TCSG - Test casing
- STCSG - Straddle test casing
- FIT - Formation interval tester
- \*\* FP - Packer leak
- BO - Tool plugged
- NO - Test not opened
- IN - Test interrupted
- XX - Other (to be specified)

**ELECTRICAL LOGGING SUMMARY**

Interval	Date	Nature and Run N°	DEPTH ft or m.		Scales		
			from	to	1/20	1/200	1/500
17½"	20/5/85	ISF - SLS - GR	1068	84		X	X
12¼"	7/6/85	ISF - MSFL - SLS - GR - SPCAL	2802	1062		X	X
"	"	LDL - CNL - GR - CAL	2802	1062		X	X
"	8/6/85	SHDT	2802	1060		X	
"	"	CST 51 SHOTS	47 SAMPLES	1 MT	3 LOST		
8½"	20/6/85	DLL - MSFL - GR - SP - CAL	3399	2798		X	X
"	21/6/85	BHC - GR	3400	2798		X	X
"	21/6/85	LDL - CNL - GR - CAL	3402	2798		X	X
"	21/6/85	EPT - GR	3402	2798		X	X
"	22/6/85	SHDT - GR	3402	2798		X	
"	22/6/85	VELOCITY SURVEY (21 LEVEL)					
"	22/6/85	CST - 30 SHOTS - RECOVERED 26 FULL ÷ 1 EMPTY			3 LOST		

**F3e** Bis 2-78

**TIME DISTRIBUTION**

WELL : ONEO 2A

• ITEMS •		INTERVALS : Duration in hours								Duration		
		D	26"	17½"	12¼"	8½"	C			% by total duration		
MOVING	D1	Rigging up, transportation and tearing down	71								71	6.32
	D2	Waiting on weather					11				11	0.98
	D3	Waiting : other	0.5								0.5	0.04
DRILLING - CASING	F1	New hole drilling		25	63.50	220	158.5				467	41.59
	F2	Drilling trips			4.5	46	15.5				66	5.88
	F3	Miscellaneous drilling operations		6.5	10	35.5	7				59	5.25
	F4	Casing and cementing		65.5	26	40					131.5	11.71
FORMATION SURVEYS	G1	Coring										
	G2	Coring trips and miscellaneous				5.5	10				15.5	1.38
	G3	Testing and related operations										
	G4	Electrical logging			8	145.5	41				194.5	17.32
INTERRUPTIONS OF OPERATIONS UNDER F & G	A1	Sticking - Fishing										
	A2	Losses and well flowing mud treatment										
	A3	Waiting on weather										
	A4	Waiting : other		7.5		21					28.5	2.54
COMPLETION AND PLUGGING	C1	Completion - Formation treatment and Production tests										
	C2	Abandon		16				62.5			78.5	6.99
	C3	Waiting on weather										
	C4	Waiting : other										
DURATION BY INTERVAL →			71.5	120.5	112	513.5	243	62.5			1123	100%

Imp. 4896 SNEA(P) - RGM 959 004 011

**F3e'** Bis 2-78

**INTERRUPTIONS OF OPERATIONS**

WELL : OMEEO 2/2A

OPERATIONS IN PROGRESS	DURATION ↓ REASONS →	STICKING FISHING		LOSSES, FLOWING MUD TREATMENT		WAITING ON WEATHER		WAITING : OTHER	
		Number	Duration (h)	Number	Duration (h)	Number	Duration (h)	Number	Duration (h)
Moving (D2-D3)	Less than 24 h					1	11	1	0.5
	From 1 to 5 days								
	More than 5 days								
	TOTAL →						11		0.5
Drilling, casing formation surveys (A1-A2-A3-A4)	Less than 24 h					5			28.5
	From 1 to 5 days								
	More than 5 days								
	TOTAL →								28.5
Completion (C3-C4)	Less than 24 h								
	From 1 to 5 days								
	More than 5 days								
	TOTAL →								
<b>TOTAL</b> →							11		40

**TOTAL DURATION OF INTERRUPTIONS** {

- During moving : 11.5
- During drilling - casing or formation surveys : 28.5
- During completion and plugging : \_\_\_\_\_

**TOTAL IN HOURS** → 40  
**TOTAL IN DAYS** → 1.66 DAYS

INTERVAL : 26" From : 84 M to : 293 M

Mud type used in this interval : AQUAGEL SPUD MUD

**• USEFUL DATA •**

CASINGS		BALANCE OF VOLUMES bbl on m <sup>3</sup>		DRILLING	
- Diameter :	<u>20"</u>	- Initial volume :	<u>0</u>	Drilled (m or ft) {	from : <u>84</u> duration {
- Hanger :	_____	- Added volume :	<u>294</u>	to : <u>293</u> (date)	from : <u>12/5/85</u>
- Shoe :	<u>284 M</u>	- Jetted volume :	_____	Footage (m or ft) :	<u>209 M</u> in : <u>2 days</u>
- Casing :	_____	- Losses in formation :	_____	Average d/lg rate _____	drilling hours : _____
- Length :	_____	- Final volume :	<u>294</u>	Internal casing vol. : <u>N/A</u>	losses : _____
				Pumping rate :	<u>3720 Lit/min</u>

**• MUD CHARACTERISTICS •**

**• CONSUMPTIONS •**

	mini	maxi	average	CHEMICALS	QUANTITY			COST			
					Total or T	Kg/ or m drilled	Kg/m <sup>3</sup>	Unit Price	Total Cost	%	
Weight in flow			1.05								
Weight out flow				AQUAGEL 100 Lb	195 MT	9.33	6.63	\$ 12.10	\$5375.00	79.6	
Viscosity M.V.			100	CAUSTIC SODA 70 Kg	0.84 MT	4.01	2.86	\$56.16	\$ 673.92	10	
	A.V.			LIME 25 Kg	0.475 MT	2.27	1.61	\$ 5.60	\$ 106.40	0.4	
Gels 0'			23	SODA ASH 25 Kg	0.05 MT	0.24	0.17	\$ 14.44	\$ 28.88	7.5	
	10'		41								
API WL			N/A	XC POLYMER 25 Kg	0.05 MT	0.24	0.17	\$255.65	\$ 511.30	0.9	
	HP-HT			CMC H.V. 25 Kg	0.05 MT	0.24	0.17	\$ 27.10	\$ 54.20		
API Pressure											
T °C											
Ph			10.5								\$6749.70
Pf											
Pm											
Ca <sup>++</sup> (g/l)				EXTRA COSTS							
SO4Ca				GEL LOST IN TRANSFER	0.9 MT	-	-	\$ 12.50	\$ 250.00		
Clna				BARYTE FOR BASE PLATE	5.45 MT	-	-	\$ 8.17	\$ 980.40		
CaCl2				CACL2 FOR CEMENT	0.3 MT	-	-	\$ 11.50	\$ 138.00		
% water											\$1368.40
% oil											
oil/water ratio											
% solids											
Solids density											
% Sand											

Depth (ft)	Lithology			
		TOTAL	<u>198.115 MT</u>	<u>\$8118.10</u>

Total cost of { Interval : 26"  
 { Drilled meter 209 M  
 foot  
 Currency : AUSTRALIAN DOLLARS  
 Conversion rate used : \_\_\_\_\_

**F3f** Bis 2-78

**MUD SUMMARY BY INTERVAL**

WELL : OMMO 2A

INTERVAL 17 1/2" From : 265 M to : 1068 M

Mud type used in this interval : SEAWATER / GEL

• **USEFUL DATA** •

CASINGS	BALANCE OF VOLUMES <small>on m<sup>3</sup></small>	DRILLING
- Diameter : <u>20"</u>	- Initial volume : <u>124</u>	Drilled (m or ft) { from: <u>265</u> to: <u>1068</u> duration (date) { from: <u>17/5/85</u> to: <u>20/5/85</u>
- Hanger : _____	- Added volume : <u>661.5</u>	Footage (m or ft) : <u>803</u> in : <u>4</u> days
- Shoe : <u>249 M</u>	- Jetted volume : <u>NOT RECORDED</u>	Average dlq rate <u>12.65m/hr</u> drilling hours : <u>63.5</u>
- Casing : _____	- Losses in formation : <u>-</u>	Internal casing vol. : <u>29.7 m<sup>3</sup></u> Losses : _____
- Length : <u>167 m</u>	- Final volume : <u>313.6</u>	Pumping rate : <u>3764 lit/min</u>

• **MUD CHARACTERISTICS** •

• **CONSUMPTIONS** •

	mini	maxi	average	CHEMICALS	QUANTITY			COST		
					Total <small>3</small>	Kg/M or m drilled	Kg/m <sup>3</sup>	Unit Price	Total Cost	%
Weight in flow	<u>1.09</u>	<u>1.12</u>	<u>1.10</u>							
Weight out flow	_____	_____	_____	AQUAGEL 100 lb	<u>17.14</u>	<u>21.34</u>	<u>21.82</u>	<u>\$ 12.50</u>	<u>\$4712.50</u>	<u>60.1</u>
Viscosity M.V. A.V. P.V. Y.P.	<u>28</u>	<u>29</u>	<u>28</u>	BAROID 100 lb	<u>7.05</u>	<u>8.77</u>	<u>8.97</u>	<u>\$ 8.17</u>	<u>\$1266.35</u>	<u>16.2</u>
	<u>2</u>	<u>4</u>	<u>3</u>	CAUSTIC SODA 70 Kg	<u>1.47</u>	<u>1.83</u>	<u>1.87</u>	<u>\$ 57.16</u>	<u>\$1200.36</u>	<u>15.3</u>
	<u>7</u>	<u>8</u>	<u>8</u>	Q-BROXIN 25 Kg	<u>0.75</u>	<u>0.93</u>	<u>0.95</u>	<u>\$ 17.30</u>	<u>\$ 519.00</u>	<u>6.6</u>
	<u>3</u>	<u>4</u>	<u>4</u>	SODA ASH 40 Kg	<u>0.40</u>	<u>0.50</u>	<u>0.51</u>	<u>\$ 14.44</u>	<u>\$ 144.40</u>	<u>1.8</u>
Gels 0' 10'	<u>3</u> <u>4</u>	<u>4</u> <u>6</u>	<u>4</u> <u>5</u>							
API WL HP-HT API Pressure T°	<u>N.C</u>	<u>N.C</u>	<u>N.C</u>							
Ph	<u>8</u>	<u>9</u>	<u>9.5</u>							
Pf	<u>.05</u>	<u>0.1</u>	<u>0.1</u>	EXTRAS						
P <sub>3</sub>				AQUAGEL - SHIPPING LOSS + CMH	<u>5.45</u>			<u>\$ 12.50</u>	<u>\$1500.00</u>	
Ca <sup>+</sup> (g/l)	<u>1160</u>	<u>1600</u>	<u>1400</u>							
SO4Ca										
Cl <sub>2</sub>	<u>15500</u>	<u>17000</u>	<u>16000</u>							
CaCl <sub>2</sub>				CACL <sub>2</sub> (CEMENT)	<u>1.38</u>			<u>\$ 11.50</u>	<u>\$ 632.50</u>	
% water	<u>96</u>	<u>97</u>	<u>96</u>							
% oil	<u>0.01</u>	<u>0.01</u>	<u>0.01</u>							
oil/water ratio	<u>0/100</u>	<u>0/100</u>	<u>0/100</u>							
% solids	<u>3</u>	<u>4</u>	<u>4</u>							
Solids density										
% Sand	<u>Tr</u>	<u>0.1</u>	<u>Tr</u>							
T °C	<u>37.8</u>	<u>47.4</u>	<u>43</u>							

Depth (ft)	Lithology	TOTAL	Interval
265 - 430	LIMESTONE	<u>26.81</u> Tonnes	<u>\$ 9974.61</u>
430 - 1068m	LIMESTONE / MARL		

Total cost of { Interval : \$ 9974.61  
 Drilled meter : \$ 12.42 / m  
 foot : AUSTRALIAN \$

Currency : \_\_\_\_\_  
 Conversion rate used : \_\_\_\_\_

Imp. 4996 SNEA(P) RGM 969 004 011

INTERVAL 12 1/4 From : 1058 to : 2806

Mud type used in this interval : SW/POLYMER

• **USEFUL DATA** •

CASINGS	BALANCE OF VOLUMES bbl on m3	DRILLING
- Diameter : <u>13 3/8</u>	- Initial volume : <u>313</u>	Drilled { from: <u>1086</u> duration { from: <u>21 MAY</u>
- Hanger : _____	- Added volume : <u>1084</u>	{ to: <u>2806</u> (date) { to: <u>9 JUNE</u>
- Shoe : <u>1057</u>	- Jetted volume : <u>718</u>	Footage (m or ft) : <u>1720</u> in : <u>20 DAYS</u>
- Casing : _____	- Losses in formation : <u>6</u>	Average dllg rate _____ drilling hours : <u>200.5</u>
- Length : <u>975</u>	- Final volume : <u>2.90</u>	Internal casing vol. : <u>290</u> Losses : <u>718</u>
		Pumping rate : <u>2820</u> L/min

• **MUD CHARACTERISTICS** •

• **CONSUMPTIONS** •

	mini	maxi	average	CHEMICALS	QUANTITY			COST		
					Total 3 -m <sup>3</sup> or T	Kg/ft <sup>3</sup> or m drilled	Kg/m <sup>3</sup>	Unit Price	Total Cost	%
Weight In flow out flow	<u>1.11</u> <u>1.12</u>	<u>1.16</u> <u>1.17</u>	<u>1.16</u> <u>1.17</u>	AQUAGEL 100lb	3.64	2.12	1.72	12.50	1000.00	1.90
Viscosity M.V. A.V. P.V. Y.P.	<u>42</u>	<u>69</u>	<u>50</u>	BARITE 100lb	0.67	0.38	0.32	8.17	1969.05	23.0
	<u>10</u>	<u>16</u>	<u>15</u>	AMMONIUM THIOCYANATE	0.18	0.10	0.08	55.60	444.80	0.8
	<u>17</u>	<u>36</u>	<u>30</u>	BARADEFOAM 25 L	0.30	0.16	0.14	102.33	1227.96	2.4
Gels 0' 10'	<u>8</u> <u>19</u>	<u>27</u> <u>47</u>	<u>19</u> <u>20</u>	CAUSTIC SODA 70kg	2.00	1.16	0.94	57.16	3601.08	6.9
API WL HP-HT API Pressure T°	<u>6.4</u> <u>500</u> <u>210</u>	<u>9.6</u> <u>500</u> <u>210</u>	<u>7.6</u> <u>500</u> <u>210</u>	CELPOL 25kg	3.53	2.05	1.67	86.90	12252.90	23.6
Ph Pf Pm Ca <sup>+</sup> (g/l)	<u>8.5</u> <u>.1</u> <u>160</u>	<u>10.0</u> <u>.2</u> <u>380</u>	<u>9.5</u> <u>.1</u> <u>200</u>	CMC-HV 25 kg	3.45	2.01	1.63	27.10	3739.80	7.2
SO4Co Clna CaCl2	<u>25K</u>	<u>24</u>	<u>22</u>	COAT 777 25 L	0.58	0.34	0.27	42.00	966.00	1.9
% water % oil oil/water ratio % solids Solids density % Sand T °C	<u>91</u> <u>0/100</u> <u>9</u> <u>.1</u> <u>53</u>	<u>94</u> <u>0/100</u> <u>6</u> <u>.5</u> <u>64</u>	<u>92</u> <u>0/100</u> <u>8</u> <u>.2</u> <u>59</u>	CONDET 200 L	1.00	0.58	0.47	145.40	727.00	1.5
				DEXTRID 50lb	7.05	4.09	3.33	37.50	11625.00	22.4
				Q-BROXIN 50lb	1.43	0.83	0.68	17.30	1089.90	2.1
				SODA ASH 40kg	3.48	2.02	1.65	14.44	1256.28	2.4
				X-C POLMER 25kg	0.20	0.12	0.94	255.65	2045.20	3.9

Depth (ft)	Lithology				
		TOTAL	<u>27.51</u>		<u>51944.97</u>
		Total cost of	Interval : <u>51 944.97</u>		
			Drilled meter : <u>28.54</u>		
		Currency	: <u>A\$</u>		
		Conversion rate used	: _____		



INTERVAL : 8 1/2" From : 2806 ft to : 3400 ft

Mud type used in this interval : SEAWATER / POLYMER

• **USEFUL DATA** •

CASINGS		BALANCE OF VOLUMES bbl on m3		DRILLING	
- Diameter :	<u>9-5/8"</u>	- Initial volume :	<u>95</u>	Drilled (m or ft) { from : <u>2806 ft</u>	duration { from : <u>10.6.85</u>
- Hanger :		- Added volume :	<u>275</u>	{ to : <u>3400 ft</u>	(date) { to : <u>21.6.85</u>
- Shoe :	<u>2797 ft</u>	- Jetted volume :	<u>168</u>	Footage (m or ft) :	<u>594 ft</u> in : <u>11</u> days
- Casing :	<u>47 pdf</u>	- Losses in formation :	<u>0</u>	Average dl/g rate :	drilling hours : _____
- Length :	<u>2713 ft</u>	- Final volume :	<u>217</u>	Internal casing vol. :	<u>101</u> losses : <u>168</u>
				Pumping rate :	<u>11,300 L/min</u>

• **MUD CHARACTERISTICS** •

• **CONSUMPTIONS** •

	mini	maxi	average	CHEMICALS	QUANTITY			COST		
					Total m <sup>3</sup> or T	Kg/ft or m drilled	Kg/m <sup>3</sup>	Unit Price	Total Cost	%
Weight in flow	<u>1.17</u>	<u>1.18</u>	<u>1.17</u>							
Weight out flow	<u>1.17</u>	<u>1.18</u>	<u>1.17</u>	AQUAGEL 100 Lb	<u>5.45</u>	<u>9.20</u>	<u>14.7</u>	<u>12.50</u>	<u>1,500.00</u>	<u>5.0</u>
Viscosity M.V. A.V. P.V. Y.P.	<u>43</u>	<u>52</u>	<u>46</u>	BARITE 100 Lb	<u>68.18</u>	<u>115</u>	<u>184</u>	<u>6.17</u>	<u>12,255.00</u>	<u>4.1</u>
	<u>22</u>	<u>37</u>	<u>30</u>	NH <sub>4</sub> CNS 25 Kg	<u>0.03</u>	<u>0.05</u>	<u>0.1</u>	<u>55.60</u>	<u>55.60</u>	<u>0.2</u>
	<u>13</u>	<u>25</u>	<u>22</u>	BARADEFOAM 25 L	<u>0.03</u>	<u>0.05</u>	<u>0.1</u>	<u>102.33</u>	<u>102.33</u>	<u>0.3</u>
	<u>12</u>	<u>29</u>	<u>23</u>	CAUSTIC SODA 70 Kg	<u>0.56</u>	<u>0.94</u>	<u>1.5</u>	<u>57.16</u>	<u>457.28</u>	<u>1.5</u>
Gels 0' 10'	<u>3</u>	<u>4</u>	<u>3</u>	CELPOL 25 Kg	<u>1.90</u>	<u>3.20</u>	<u>5.1</u>	<u>86.90</u>	<u>6,604.40</u>	<u>22.1</u>
	<u>4</u>	<u>9</u>	<u>8</u>	CHC - HV 25 Kg	<u>1.55</u>	<u>2.62</u>	<u>0.4</u>	<u>27.10</u>	<u>1,600.20</u>	<u>5.6</u>
API WL	<u>4.8</u>	<u>7.6</u>	<u>5.4</u>	COAT 777 25 L	<u>0.38</u>	<u>0.64</u>	<u>1.0</u>	<u>42.00</u>	<u>630.00</u>	<u>2.1</u>
HP-HT	<u>18.2</u>	<u>25.0</u>	<u>19.2</u>	DEXTRID 50 Lb	<u>2.09</u>	<u>3.52</u>	<u>5.6</u>	<u>37.50</u>	<u>3,450.00</u>	<u>11.6</u>
API Pressure	<u>500</u>	<u>500</u>	<u>500</u>	Q-EROXIN 50 Lb	<u>0.23</u>	<u>0.39</u>	<u>0.6</u>	<u>17.30</u>	<u>173.00</u>	<u>0.6</u>
T°	<u>210</u>	<u>210</u>	<u>210</u>	SODA ASH 40 Kg	<u>1.04</u>	<u>1.75</u>	<u>2.8</u>	<u>14.44</u>	<u>375.44</u>	<u>1.3</u>
Ph	<u>10.0</u>	<u>11.0</u>	<u>11.0</u>	X-C POLYMER 25 Kg	<u>0.25</u>	<u>0.42</u>	<u>1.1</u>	<u>255.65</u>	<u>2,556.50</u>	<u>8.6</u>
Pf	<u>0.4</u>	<u>1.2</u>	<u>0.8</u>							
P <sub>m</sub>										
Ca <sup>++</sup> (g/l)	<u>160</u>	<u>360</u>	<u>320</u>							
SO <sub>4</sub> Ca										
Cl <sub>no</sub>	<u>18000</u>	<u>24000</u>	<u>21000</u>							
CaCl <sub>2</sub>										
% water	<u>90</u>	<u>92</u>	<u>92</u>							
% oil	<u>0</u>	<u>0</u>	<u>0</u>							
oil/water ratio	<u>0/100</u>	<u>0/100</u>	<u>0/100</u>							
% solids	<u>8</u>	<u>10</u>	<u>8</u>							
Solids density										
% Sand	<u>0.1</u>	<u>0.5</u>	<u>0.5</u>							
T °C	<u>44</u>	<u>48</u>	<u>47</u>							

Depth (ft)	Lithology	TOTAL	Interval
2806 - 3400	SANDSTONE	<u>81.69</u>	<u>29,839.75</u>
			Total cost of { Drilled meter foot <u>50.23</u>
			Currency : <u>AUSTRALIAN DOLLARS</u>
			Conversion rate used : _____



**F3 h** Bis 2-78

**COMPLETION STATUS**

WELL: ORFO 2A

1) COMPLETION (If carried out by the drilling rig)

yes

no

2) - CASINGS, TUBINGS AND ANNULUS STATUS

CASING AND TUBING DIAMETER	SHOE DEPTH	HANGER DEPTH	CASING CUT DEPTH (event)	CEMENT TOPS		ANNULUS FLUIDS	
				OD	ID	NATURE	SG
20"	249	81.15	98	SEABED		CEMENT	
13-3/8"	1062	84.02	98	120		SW GEL	1.10
9-5/8"	2798	83.65	220	1915		SW POLYMER	1.16

Depths of perforations :

Tubing anchoring device and pocker depth(s) :

3) - CEMENT PLUGS AND BRIDGE PLUGS (CP and BP)

CEMENT PLUG (CP) / BRIDGE PLUG (BP)	CP	CP	BP	CP					
FROM (m or <del>ft</del> )	3300	2850	2698	250					
TO (m or <del>ft</del> )	3175	2730		120					
TESTED	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	<input type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> yes <input type="checkbox"/> no
BY { PRESSURE OR WEIGHT			2000 PSI						

4) - WELL HEAD

Description of abandoned equipment : NOTHING - ALL BASE PLATES RECOVERED

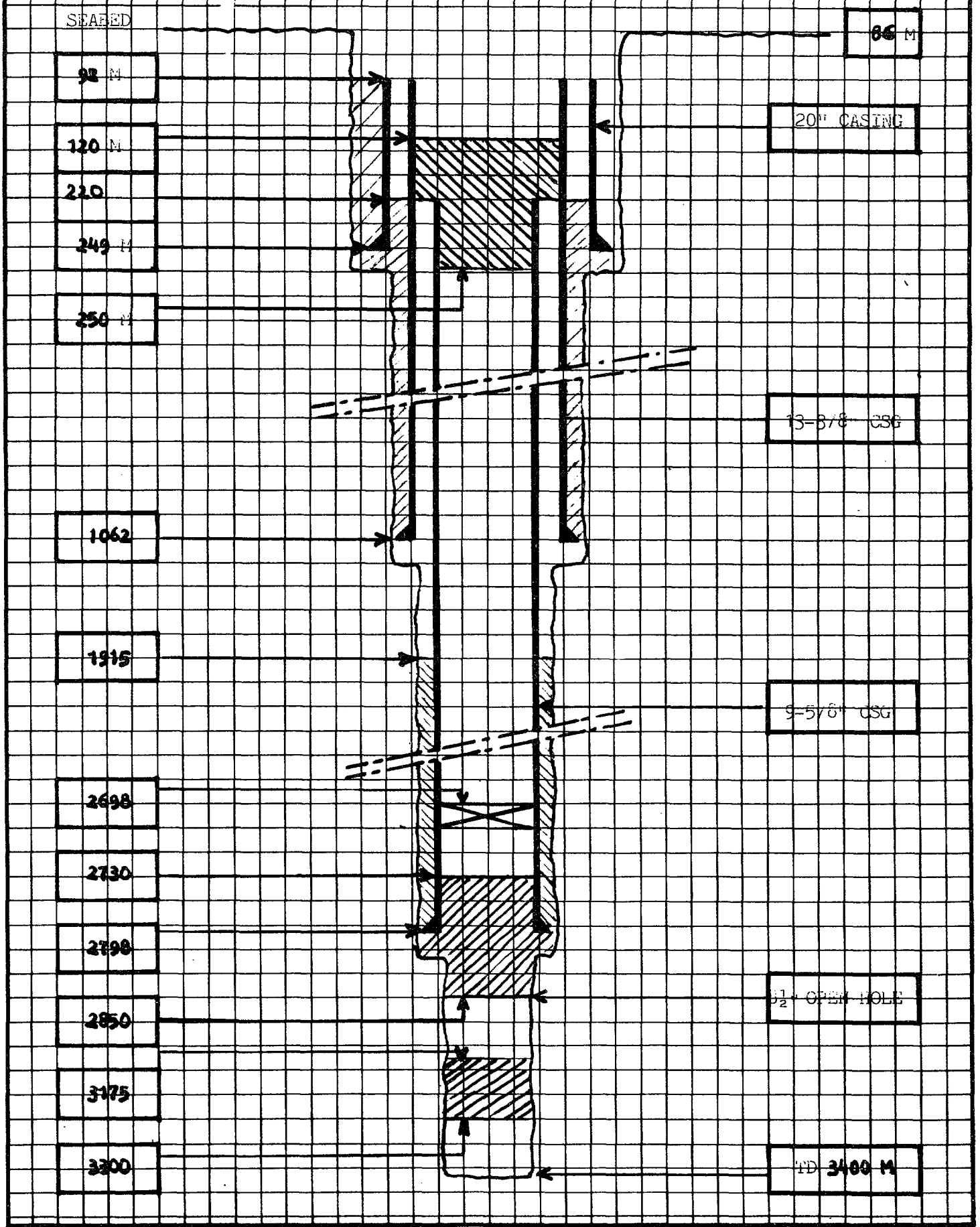
RELOCALIZATION DEVICE { yes  no  TYPE : \_\_\_\_\_

F3h' Bis 2-78

WELL TECHNICAL SECTION (COMPLETION STATUS)

WELL : OMEO 2A

DEPTH IN METRES FROM RKB



ROCK BITS AND CORE BITS

BIT DIAMETER	CONE BITS				DIAMOND BITS			BITS		Total by interval
	Tooth tricone bits	Insert tricone bits	Removable center	Bicone bits	Drilling bits	Core bits	Removable center	Drag bits	Special bits	
26"	2									2
17½"	2									2
12¼"	3	2		1						6
8½"	1	3								4
<b>TOTAL</b> →										14

CASINGS

Diameter	Weight (lbs/Ft)	Thread	Grade	Length (Ft or m)	Observations
20"	133	"CC" CONN	X56	188.73 (OMEO 2) 155.73 (OMEO 2A)	WITH PILE JNT 24" x 18" (13.2ft)
13-3/8"	68	BUTTRESS	K55	977.78	82 JNTS + PUP JNT ON HANGER
9-5/8"	47	BUTTRESS	H80	2710.67	230 Jts (2710.67) PUP JT ON HANGER

**• CEMENTS •**

Class	QUANTITY (T)			Class	QUANTITY (T)		
	Casing	Well abandon	Plugging losses		Casing	Well abandon	Plugging losses
G	239 T	15 T					

**CHEMICALS**

CHEMICAL NAME	QUANTITIES ADDED m <sup>3</sup> or T	CHEMICAL NAME	QUANTITIES ADDED m <sup>3</sup> or T
AQUAGEL	263 T	SODA ASH	5 T
BARITE	125 T	CONDET	1 M3
CAUSTIC	4.9 T	AMMONIUM THIOCYANATE	0.11
CELPOL	5.5 T	CALCIUM CHLORIDE	1.68 T
CMC HV	5 T	LIME	0.475 T
COAT 777	0.96 T	BARADEFOAM	0.3 M3
DEXTRID	9.2 T		
Q-BROXIN	2.4 T		
XC POLYMER	0.5 T		

**WATER - DIESEL/OIL (not added in mud)**

FRESH WATER (m <sup>3</sup> )	-		
DIESEL-OIL (m <sup>3</sup> )	493		

**WELL HEADS, HANGERS (Ø - API working pressure - Type)**

18 <sup>3</sup> / <sub>4</sub> " WELLHEAD HOUSING CIW 24" X 18" PILE JOINT EXTENSION 10000 PSI
CIW DRILLING TEMPLATE (MODIFIED) + PERMANENT GUIDE BASE W/MOUSE TRAP SYSTEM
CIW 13-3/8" x 18 <sup>3</sup> / <sub>4</sub> " HANGER + SEAL ASSY 10000 PSI - CIW LOW TORQUE SYSTEM
CIW 9-5/8" x 18 <sup>3</sup> / <sub>4</sub> " HANGER + SEAL ASSY 10000 PSI - CIW LOW TORQUE SYSTEM

**F3j** Bis 2-78

**COSTS BREAKDOWN**

WELL: OM80 2A

OPERATIONS		BEFORE DRILLING	DRILLING	AFTER DRILLING
I	Operation preparation	63,870		
II	Access and drilling site works or sea bottom surveys	59,291		32,000
III	Rig mobilization and moving in.	400,000		
IV	Drilling Contractor	422,916	3,174,986	41,572
V	Consumables	14,590	1,514,640	25,196
VI	Rental and services	43,328	1,298,018	42,501
VII	Operator supervision	81,553	146,773	11,500
VIII	Transportation (air - land - sea)	208,468	1,020,499	128,917
IX	Insurances			
X	Operating bases	93,693	244,791	35,000
XI	Rig demobilization and moving out			
XII	Finalization of operations			68,314
<b>TOTAL</b>		<b>A 1,387,709</b>	<b>B 7,399,707</b>	<b>C 385,000</b>
<b>TOTAL COST OF WELL: A + B + C</b> -----			<b>9,172,416</b>	<b>ESTIMATED</b>
<p>• Drilled footage (meter or foot): <u>3,316</u> m      • Drilling duration (d): <u>47</u> days</p> <p>• Cost { per drilled meter <math>\frac{B}{m}</math> <u>2,231-52</u>      • Daily cost <math>\frac{B}{d}</math> : <u>157,440</u>  or drilled foot <math>\frac{B}{ft}</math> <u>-</u></p>				
<p>Currency: <u>AUSTRALIAN DOLLAR</u>      Conversion rate: <u>A\$1 = US\$0.666</u></p>				

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## CONSUMABLES (Item 5)

- Fuel and lubricants	360,977	- Casing and miscellaneous	576,207
- Drilling bits	106,323	- Wellhead and miscellaneous	194,116
- Core - Bits	0	- Bottom hole equipment	11,155
- Mud chemicals	141,287	- Surface equipment	2,012
- Cements + ADDITIVES:	114,769	- Offshore or anchoring equipment	
- Water	1,625	- Anti-pollution products	
-		-	

TOTAL : A\$ 1,508,471

## RENTAL AND SERVICES (Item 6)

- Electrical logging	828,659	- Mud logging	69,130
- Cementing and pumping	33,075	- Mud services	13,050
- Fishing	0	- Directional survey	0
- Turbodrill	0	- Tong service	20,666
- Testing RENTAL	52,204	- Air drilling	0
- Subsea operations (diving)	165,574	- Other services	48,506
- Welding	0	- Bottom hole equipment rental	32,924
- Oceano-meteorological assistance	9,300	- Surface equipment rental	12,496
- Velocity survey	12,434	- Wellhead equipment rental	0
- Subsea television	0	- Anti-pollution equipment rental	0
- Positioning	59,291	- TRANSPORT / LABOUR:	42,638
- HELICOPTER & BOATS	1,020,499	-	

TOTAL: A\$ 2,420,446



**F3k** Bis 2-78

**MONTHLY METEOROLOGICAL SHEET**

WELL: OLBEO 2A

MONTH: MAY 1965

WELL: OLBEO 2 / 2A

YEAR 19__	DAILY MORNING OBSERVATIONS						UNIT MOTIONS			Temperature °C	Visibility (miles)	
	Wind KNT		Waves			Current		Roll (°)	Pitch (°)			Heave (Ft or m)
DATE	Speed	Direction	Height (ft or m)	Period (sec.)	Direction	Speed (Knt)	Direction					
1												
2												
3												
4												
5												
6												
7												
8												
9												
10	18	WNW	1.5	7	ENE			1	1		13	
11	18	SSW	1.5	7	WSW			0.7	0.6	2.2	12	
12	20	ENE	1.8	7	ENE			1	1	1	12	
13	18	NNE	3	8	NNE			1.5	1	0.5	12	
14	25	NNE	1	7	ENE			0.5	0.6	0.8	12	
15	10	ENE	0.5	5	W			0.7	0.6	0.3	12	
16	30	WNW	1.5	10	W			0.6	0.7	0.5	13	
17	30	NNW	3	6	WNW			0.5	0.7	0.5	12	
18	25	W	1.5	8	WNW			0.5	0.7	0.5	11	
19	25	SE	2.5	7	SSW			0.6	0.7	0.5	9	
20	20	SW	1.8	7	W			0.6	0.6	0.5	8	
21	35	W	2.4	7	W			1	0.8	0.5	8	
22	35	W	2.5	7	W			1	0.9	2	10	
23	30	W	2.5	7	W			0.8	0.7	1.5	9	
24	20	W	2	7	SSW			0.6	0.7	0.8	12	
25	5	EES	1.5	6	SSW			0.5	0.6	0.3	13	
26	10	NNW	1.5	7	SSW			0.7	0.5	0.3	12	
27	28	NNE	2	8	NNE			0.5	0.5	0.5	15	
28	35	NE	1.5	6	ENE			1.5	1	0.3	14	
29	15	ENE	2.1	7	ENE			0.7	0.6	0.5	12	
30	30	W	2	7	WSW			0.6	0.6	0.5	13	
31	15	W	2	7	WSW			0.5	0.4	0.3	12	

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**F3k** Bis 2-78

**MONTHLY METEOROLOGICAL SHEET**

WELL: OMEO 2A

MONTH: JUNE

WELL: OMEO 2A

YEAR 19 <u>85</u>	DAILY MORNING OBSERVATIONS							UNIT MOTIONS			Temperature °C	Visibility (miles)
	Wind		Waves			Current		Roll (°)	Pitch (°)	Heave (EX or m)		
	Speed MPH	Direction	Height (EX or m)	Period (sec.)	Direction	Speed (Knt)	Direction					
DATE												
1	5	W	1.2	7	W			0.3	0.3	1	12	
2	5	WNW	2.7	7	WNW			1	1	0.5	9	
3	15	N	1.5	7	WNW			0.5	0.5	0.3	11	
4	25	SSE	2.4	8	SSE			1	1	0.5	12	
5	22	SSE	1.5	10	SSE			2	1.5	1	11	
6	15	W	1.8	8	WSW			1	0.8	0.6	10	
7	10	WNW	1.5	8	WNW			0.9	0.7	0.3	11	
8	10	NNW	1	8	N			0.5	0.5	0.3	10	
9	22	NW	1.5	8	NW			0.4	0.4	0.2	11	
10	20	NW	0.5	7	WNW			0.5	0.5	0.8	11	
11	25	WNW	2	10	W			0.6	0.7	1	12	
12	15	WNW	2	7	NW			0.5	0.5	0.5	11	
13	30	WNW	2	7	NW			0.5	0.4	0.5	11	
14	15	NNW	1	7	NW			0.3	0.5	0.5	11	
15	30	NW	3.5	7	W			0.6	0.7	1	9	
16	20	W	2	10	W			0.5	0.6	0.6	7	
17	10	N	1	7	N			0.4	0.4	0.2	9	
18	10	NW	1.2	7	NW			0.4	0.3	0.3	9	
19	10	SE	2	6	SE			0.3	0.3	0.5	8	
20	10	SSE	1.8	7	SE			1	0.4	0.3	11	
21	18	S	1.8	7	S			0.8	0.6	0.3	10	
22	13	SSW	1.8	7	SW			1	0.4	0.3	10	
23	12	NNW	1.5	7	NW			0.4	0.3	0.3	10	
24	16	SW	1.6	7	SW			2	1	0.6	10	
25	8	SE	1.5	6	SE			1.5	1	0.3	11	
26	35	NW	1	7	NW			1	1.5	0.3	10	
27												
28												
29												
30												
31												

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4 - RUNNING CASING

Making-up of joint : SQUUNCH JOINT TYPE CC COMERON  
 Grease type used for threads : OIL ONLY  
 Average torque to make-up the joints N/A  
 Filling frequency EACH JOINT  
 Intermediate circulation (duration - depth) NO  
 Total running time (with circulations) 7:30 h average rate 2.3 joints/h  
 Troubles during running NO  
 Bottom hole circulation : Duration 45 Min Rate 3000 Lit/Min Pressure 45 Bar  
 Reciprocating : NO Duration \_\_\_\_\_ Rate \_\_\_\_\_ Amplitude \_\_\_\_\_  
 M.D. indications after stop of bottom hole circulation : \_\_\_\_\_  
 Observations : CASING AND WELLHEAD HOUSING LANDED WITH TGB ON TEMPLATE

5 - SINGLE STAGE OR FIRST STAGE CEMENTING

Service by HALLIBURTON Beginning of slurry making at 02:40 (13/5/85) h  
 Mixing pump BJ UNIT End of slurry making at 03:35 (13/5/85) h  
 Slurry injection pump BJ UNIT End of displacement at 03:45 h  
 Displacement pump(s) BJ UNIT Pressure released in casing at 03:45 h

Nature or class of cements	Sacks or bulk	Cement weight increase %	Water and additives used (nature : quantities)			TONNAGES USED
1 G	BULK	100%	F.WTAER + 2%	CACL <sub>2</sub>	CACL <sub>2</sub> =800Kg	'G' = 13 T
2 G	BULK	100%	THIXSET A (0.50%)	+ THIXSET B (0.25%)	THIXSET A=600bb1 B=350bb1	'G' = 45 T
3	(TOTAL "G" USED = 58 T)					

CHARACTERISTICS OF	S.G.	P.V.	Y.V.	VISCOSIMETER READINGS VS R.P.M.			
				600	300		
SLURRIES							
1	1.90						
2	1.63						
3							
SPACER PLUGS							
1	SW						
2							

Slurry injection rate \_\_\_\_\_ Displacement rate \_\_\_\_\_  
 Displacement fluid nature SEA WATER Pumped volume 8 m3  
 Pressure at the beginning of displacement \_\_\_\_\_ at the end 69 at the surge 0  
 Estimated losses RETURNED DURING  
 Casing string pressuring up at \_\_\_\_\_ Result \_\_\_\_\_  
 Residual pressure (eventual) after bleeding off \_\_\_\_\_

6 - SETTING ON SPOOL

M.D. indication at the end of displacement N/A  
 M.D. indication after cement setting N/A setting tension on spool > \_\_\_\_\_ T  
 Casing string set on spool \_\_\_\_\_ h. after the end of displacement  
 Spool : MFG \_\_\_\_\_ Nominal dimensions \_\_\_\_\_ API WP.  
 Suspension and seal type CASING SET W/P.G.B ON DRILLING TEMPLATE  
 Additional seal (type - dimensions) \_\_\_\_\_  
 Distance between the upper part of the spool and R.K.B. RKB / TOP 18 3/4" HOUSING = 81.5 m  
 Cut casing \_\_\_\_\_ cm above the spool

7 - CONTROL

Temperature well logging after \_\_\_\_\_ h. setting  
 Cementing log after \_\_\_\_\_ h. setting Top cement annulus > \_\_\_\_\_ m  
 Result of these logs (or enclose a copy) \_\_\_\_\_  
 Test casing string + B.O.P.(blind and pipe rams) Test pressure > \_\_\_\_\_  
 Packer depth : \_\_\_\_\_  
 Test result : \_\_\_\_\_

# CASING AND CEMENTING REPORT

## F5a Bis

WELL (Country)	RIG (Contractor)	R K Height B	Ground M.L. <input checked="" type="checkbox"/>	Casing Liner <input type="checkbox"/>	CASING SHOE	Hanger depth (for liners) or changing $\phi$ casing depth :	OPERATION DATE
ONEO 2 (VIC P17)	DIAMOND M EPOCH DIAMOND M)	84 m		$\phi$ 20"	Measured depth : 284 m Vertical depth :		12/5/85

**1 - WELL CONDITION**

Open hole diameter : 26"      Depth { Vertical : \_\_\_\_\_ Measured : 223 m }      Deviation { Mini : 1/2° to 293 m      Maxi : 3/4° to 133 m }

Important casing (location - average diameter..): \_\_\_\_\_

Losses during drilling (levels, extent) OPEN RETURNS TO SEABED

Reamer runs (number) ONE      Reamer at \_\_\_\_\_ m from the bit

Previous casing : Diameter N/A      Shoe at \_\_\_\_\_ m

BOP's on well when running in (Type - equipment, test pressure) \_\_\_\_\_  
NO

MUD CHARACTERISTICS BEFORE INJECTING SLURRY	S.G.	W.L.	P.V.	Y.V.	VISCOSIMETER READINGS Vs R.P.M.				
					600	300			
Observations : <u>HOLE FILLED UP WITH 650 BBL HIGH VISC. MUD</u>									

**2 - GENERAL COMPOSITION OF CASING STRING**

ELEMENT	MFG. type	$\phi$	Weight (lb/ft) or thickness	Thread or joint type	Grade	Special corrosion ?	Inside volume l/m	Length (m).	Number of joints
SHOE	FLOAT	20"	SHOE JOINT	CIW 'CC'	X56	NO	177.8	11.99	X
COLLAR									X
CASING	NKK	20"	133	CIW 'CC'	X56	NO	177.8	176.74	15
HOUSING PILE JNT		24" x 18"	3" THICKNESS	'CC'				13.12	1
Tripping joint :	DP	5"	S-135					81.15	X
Drift diameter in the thickest joint <u>18" ID ON PILE JOINT</u>								TOTAL >	284 m
Maximum permissible tension <u>143 T</u>									
Theoretical weight of the casing string : _____ In air <u>49 T</u> in mud : <u>42 T</u>									

**3 - EQUIPMENT OF CASING STRING**

CENTRALIZERS	SCRATCHERS	OTHER EQUIPMENT (Description - Location)
MGF : _____ TYPE : _____ NUMBER : _____ DEPTH/RKB : _____	MGF : _____ TYPE : _____ NUMBER : _____ DEPTH/RKB : _____	18" WELLHEAD HOUSING CIW WITH 24" x 3" WALL PILE JOINT EXTENSION 10M LONG
NONE	NONE	

# DETAILED COMPOSITION OF THE CASING STRING

F 5 c Bis/3.79

Well site		OMEQ 2		Casing diameter	20"		RKB height / ground	M. L.	84 m		Shoe meas. depth	284 m	
Joint Number	Equip. <sup>†</sup>		Weight per foot, grade and thread of joints  Other equipments	Unit Length	Cumulated Length	Joint Number	Equip. <sup>†</sup>		Weight per foot, grade and thread of joints  Other equipments	Unit Length	Cumulated Length		
	central	scratch					central	scratch					
	RKB TO TOP WELLHEAD				81.15								
	WELLHEAD HOUSING 18 3/4"			13.12	94.27		WITH PILE JOINT EXTENSION 24" x 18"						
1			"CC" 133 lb/ft	11.91	106.18								
2				11.90	118.08								
3				11.89	129.97								
4				11.90	141.87								
5				11.91	153.78								
6				11.90	165.68								
7				11.90	177.58								
8				11.92	189.50								
9				11.91	201.40								
10				11.90	213.31								
11				11.91	225.22								
12				11.61	236.83								
13				11.92	248.75								
14				11.64	260.39								
15				11.62	272.01								
	SHOE JOINT		"CC" 133 lb/ft	11.99	284.00								

**THE DETAILED COMPOSITION OF THE CASING STRING SHOULD BE GIVEN :**

- EITHER from top to bottom. For the upper joint, the length under RKB will only be considered. So, each cumulated length will be the RKB Measured Depth at the bottom of each corresponding joint.
- OR from bottom to top, beginning by the shoe. So the RKB Measured Depth at the bottom of each joint will be the difference between the shoe Measured Depth and the cumulated length at the corresponding joint. The composition of the extension string should be detailed.

Imp. 4892 A SNEA(P) - 969004023

# CASING AND CEMENTING REPORT

## F5a Bis

WELL (Country)	RIG (Contractor)	RKB Ground Height <input type="checkbox"/> M.L. <input checked="" type="checkbox"/>	Casing <input checked="" type="checkbox"/> Liner <input type="checkbox"/>	CASING SHOE	Hanger depth (for liners) or changing $\phi$ casing depth :	OPERATION DATE
OMEO 2-A (VIC P17)	DIAMOND M EPOCH (DIAMOND M)	84 M	20"	Measured depth : 249 M Vertical depth :		16/5/85

**1 - WELL CONDITION**

Open hole diameter : 26"      Depth { Vertical : \_\_\_\_\_ Measured : 265 M      Deviation { Mini : 1.0 to 265 M m  
 Important casing (location - average diameter..) : \_\_\_\_\_      Maxi : 1.0 1/2 to 133 M m

Losses during drilling (levels, extent) OPEN RETURNS TO SEABED

Reamer runs (number) ONE      Reamer at 12 m from the bit  
 Previous casing : Diameter N/A      Shoe at \_\_\_\_\_ m  
 BOP's on well when running in (Type - equipment, test pressure) \_\_\_\_\_  
NO

MUD CHARACTERISTICS BEFORE INJECTING SLURRY	S.G.	W.L.	P.V.	Y.V.	VISCOSIMETER READINGS V. R.P.M.					
					600	300				

Observations HOLE FILLED UP WITH 600 bbls HIGH VISC. MUD

**2 - GENERAL COMPOSITION OF CASING STRING**

ELEMENT	MFG. type	$\phi$	Weight (lb/ft) or thickness	Thread or joint type	Grade	Special corrosion ?	Inside volume l/m	Length (m).	Number of joints
SHOE	FLOAT	26"	133 lb/ft	CIW 'CC'	X56	NO	177.8	11.93	X
COLLAR	FLOAT	26"			X56	NO	177.8	WELD AT 6m FROM SHOE	X
CASING	NKK	20"	133 lb/ft	CIW 'CC'	X56	NO	177.8	143.80	12
HOUSING PIPE JNT		24"x18"	3"	CIW 'CC'				13.12	
Tripping joint :	HWDP	5"	50 lb/ft					81.15	X
Drift diameter in the thickest joint _____								TOTAL >	249.00 m
Maximum permissible tension <u>143 T</u>									
Theoretical weight of the casing string : _____ In air <u>43 T</u> In mud : <u>37 T</u>									

**3 - EQUIPMENT OF CASING STRING**

CENTRALIZERS	SCRATCHERS	OTHER EQUIPMENT (Description - Location)
MGF : _____	MGF : _____	
TYPE : _____	TYPE : _____	
NUMBER : _____	NUMBER : _____	18" WELLHEAD HOUSING CIW
DEPTH/RKB : _____	DEPTH/RKB : _____	WITH 24" x 18" x 3" WALL
NONE	NONE	PIPE JOINT EXTENSION 10M LONG

Imp. 4225 C SNEA(P) - RIGHT 859 004 013 - Fobis/2707/1150

4 - RUNNING CASING

Making-up of joint : SQUUNCH JOINT TYPE "CC" CAMERON  
 Grease type used for threads : OIL ONLY  
 Average torque to make-up the joints N/A  
 Filling frequency EACH JOINT  
 Intermediate circulation (duration - depth) NO  
 Total running time (with circulations) 5 h average rate 3 joints/h  
 Troubles during running \_\_\_\_\_  
 Bottom hole circulation : Duration \_\_\_\_\_ Rate \_\_\_\_\_ Pressure \_\_\_\_\_  
 Reciprocating : NO Duration \_\_\_\_\_ Rate \_\_\_\_\_ Amplitude \_\_\_\_\_  
 M.D. indications after stop of bottom hole circulation : \_\_\_\_\_  
 Observations : CASING AND WELLHEAD HOUSING LANDED WITH TGB ON TEMPORARY TEMPLATE - SLOPE INDICATOR ON TEMPLATE = 3/4 DEG BEFORE AND AFTER CEMENT JOE.

5 - SINGLE STAGE OR FIRST STAGE CEMENTING

Service by HALLIBURTON Beginning of slurry making at 0715 hrs 16/5/85 h  
 Mixing pump BJ UNIT End of slurry making at 0815 hrs h  
 Slurry injection pump BJ UNIT End of displacement at 0830 hrs h  
 Displacement pump(s) BJ UNIT Pressure released in casing at 0830 hrs h

Nature or class of cements	Sacks or bulk	Cement weight increase %	Water and additives used (nature : quantities)		TONNAGES USED
1 G	BULK	150%	SEAWATER + 2% CaCl <sub>2</sub>		23 T
2 G	BULK	200%	2% GEL + 2% CaCl <sub>2</sub>		40 T
3			CaCl <sub>2</sub> = 1150 Kg, GEL = 980 Kg		T

CHARACTERISTICS OF SLURRIES	S.G.	P.V.	Y.V.	VISCOSIMETER READINGS VS R.P.M.			
				600	300		
1	1.90						
2	1.60						
3							
SPACER PLUGS	1 SW						
	2						

Slurry injection rate \_\_\_\_\_ Displacement rate \_\_\_\_\_  
 Displacement fluid nature HEAVY MUD 1.45 S.G. Pumped volume 8.8 M3  
 Pressure at the beginning of displacement 41 BAR at the end 41 BAR at the surge 0  
 Estimated losses RETURNS ALL TIME  
 Casing string pressuring up at NO Result \_\_\_\_\_  
 Residual pressure (eventual) after bleeding off \_\_\_\_\_

6 - SETTING ON SPOOL

M.D. indication at the end of displacement N/A  
 M.D. indication after cement setting N/A setting tension on spool \_\_\_\_\_ T  
 Casing string set on spool \_\_\_\_\_ h. after the end of displacement  
 Spool : MFG \_\_\_\_\_ Nominal dimensions \_\_\_\_\_ API WP \_\_\_\_\_  
 Suspension and seal type CASING SET U/PGB ON DRILLING TEMPLATE  
 Additional seal (type - dimensions) \_\_\_\_\_  
 Distance between the upper part of the spool and R.K.B. - TO WELLHEAD 81.15 M  
 Cut casing \_\_\_\_\_ cm above the spool

7 - CONTROL

Temperature well logging after \_\_\_\_\_ h. setting  
 Cementing log after \_\_\_\_\_ h. setting Top cement annulus \_\_\_\_\_ m  
 Result of these logs (or enclose a copy) \_\_\_\_\_  
 Test casing string + B.O.P.(blind and pipe rams) Test pressure 200 PSI  
 Packer depth : \_\_\_\_\_  
 Test result : \_\_\_\_\_

# DETAILED COMPOSITION OF THE CASING STRING

F 5 c Bis/3-79

Well site		Casing diameter		RKB height/ <sup>ground</sup> M. L.		Shoe meas <sup>d</sup> depth					
OMEO 2-A		20"		84M		249 M					
Joint Number	Equip. <sup>†</sup>		Weight per foot, grade and thread of joints	Unit Length	Cumulated Length	Joint Number	Equip. <sup>†</sup>		Weight per foot, grade and thread of joints	Unit Length	Cumulated Length
	central	scratch					central	scratch			
Other equipments						Other equipments					
					81.15						
			RKB TO TOP WELLHEAD								
			WELLHEAD HOUSING 18 3/4"	13.12	93.27						
1			'CC' - 133 lb/ft	11.90	105.17						
2				11.89	117.06						
3				11.90	128.96						
4				11.91	140.87						
5				11.91	152.78						
6				11.89	164.67						
7				11.90	176.57						
8				11.89	188.46						
9				11.91	200.37						
10				11.90	212.27						
11				11.91	224.18						
12				11.89	236.07						
			SHOE JOINT	11.97	249.00						

THE DETAILED COMPOSITION OF THE CASING STRING SHOULD BE GIVEN :

- EITHER from top to bottom. For the upper joint, the length under RKB will only be considered. So, each cumulated length will be the RKB Measured Depth at the bottom of each corresponding joint.
- OR from bottom to top, beginning by the shoe. So the RKB Measured Depth at the bottom of each joint will be the difference between the shoe Measured Depth and the cumulated length at the corresponding joint. The composition of the extension string should be detailed.

Imp. 4893 A SNEA(P) - 969004023



# CASING AND CEMENTING REPORT

## F5a Bis

WELL (Country)	RIG (Contractor)	RKB Ground Height <input type="checkbox"/> M.L. <input checked="" type="checkbox"/>	Casing <input checked="" type="checkbox"/> Liner <input type="checkbox"/>	CASING SHOE	Hanger depth to floor or changing casing depth:	OPERATION DATE
OLFO 24 (VIC P17)	DIAMOND H EPOCH (DIAMOND I)	84M	13-3/8"	Measured depth : 1062 Vertical depth :	84.02	20/5/85

Open hole diameter : 17 1/2"      Depth { Vertical : \_\_\_\_\_ Measured : 1068 M }      Deviation { Mini : 1/2° to \_\_\_\_\_ m }  
 Important casing (location - average diameter..) : \_\_\_\_\_ { Maxi : 1 1/2° to \_\_\_\_\_ m }

Losses during drilling (levels, extent) LOSING 10 bbl/hr WHILE LOGGING & RUNNING CSG

Reamer runs (number) STAB C 18 & 27 M      Reamer at \_\_\_\_\_ m from the bit  
 Previous casing : Diameter 20"      Shoe at 249 M m  
 BOP's on well when running in (Type - equipment, test pressure) CALIBRON 18 3/4" - 10000

1 - WELL CONDITION

MUD CHARACTERISTICS BEFORE INJECTING SLURRY	S.G.	W.L.	P.V.	Y.V.	VISCOSIMETER READINGS Vs. R.P.M.				
					600	300			
SEAWATER GEL	1.10	-	3	7					

Observations HOLE DRILLED WITH 2 BIT RUNS - NO DRAG ON TRIPS

2 - GENERAL COMPOSITION OF CASING STRING

ELEMENT	MFG. type	φ	Weight (lb/ft) or thickness	Thread or joint type	Grade	Special corrosion ?	Inside volume l/m	Length (m)	Number of joints	
SHOE	W/FORD SUPER SEAL			BUTT	K55		78.08	12.00	1	
COLLAR	W/FORD SUPER SEAL						78.08	962.56	81	
								2.24		
HANGER & PUP JOINT										
Tripping joint : INDP 5" 50 lb/ft 4 1/2" IF									84.02	1
Drift diameter in the thickest joint _____								TOTAL >	1061.80 m	
Maximum permissible tension <u>380,000 KPS C 80%</u>										
Theoretical weight of the casing string : <u>97,750 Kg</u> In air <u>84,000 Kg</u> In mud : _____										

3 - EQUIPMENT OF CASING STRING

CENTRALIZERS	SCRATCHERS	OTHER EQUIPMENT (Description - Location)
MGF : <u>LOVICO</u>	MGF : _____	
TYPE : _____	TYPE : _____	
NUMBER : <u>5</u>	NUMBER : _____	
DEPTH/RKB : _____	DEPTH/RKB : _____	
INSTALLED ON CENTRE OF FIRST FIVE JOINTS -		
USING STOP COLLARS		

Imp. 46 BEAPI 59 004

**4 - RUNNING CASING**

Making-up of joint : RTGS - LAMB 16" POWER TONGS  
 Grease type used for threads : WEATHERFORD LUDE SEAL  
 Average torque to make-up the joints 10500 ft Lbs  
 Filling frequency EVERY 8 JOINTS  
 Intermediate circulation (duration - depth) NO  
 Total running time (with circulations) 5 h 30 average rate 15 joints/h  
 Troubles during running NONE  
 Bottom hole circulation : Duration 1 hr Rate 2240 L/min Pressure 1000 PST  
 Reciprocating : NO Duration                      Rate 760 L/min Amplitude 190 PST  
 M.D. indications after stop of bottom hole circulation : VT OF STRING PRIOR TO LANDING 184000 lbs  
 Observations : LOSING 10 BLS OF MUD PER HR - NOTICED WHILE LOGGING AND WHILE RUNNING CSG.

**5 - SINGLE STAGE OR FIRST STAGE CEMENTING**

Service cy HALLIBURTON Beginning of slurry making at 2353 hrs h  
 Mixing pump                      End of slurry making at 0121 hrs h  
 Slurry injection pump EJ End of displacement at 0220 hrs h  
 Displacement pump(s) OILWELL P1700 Pressure released in casing at 0230 hrs h

Nature or class of cements	Sacks or bulk	Cement weight increase %	Water and additives used (nature : quantities)			TONNAGES USED
1 G	SLURRY	VOLUME	71,8 M3.	D.WATER 375 Bbls, GEL 8 Lbs/Dbl,	57	T
2 G NEAT	"	"	7.6 M3	CACL2 8 Lbs/Dbl.	20	T
3				60 Ebls		T

CHARACTERISTICS OF SLURRIES	S.G.	P.V.	Y.V.	VISCOSIMETER READINGS VS R.P.M.			
				600	300		
1	1.60						
2	1.90						
3							

Slurry injection rate 900 L/min Displacement rate 66.4 M3 at 2000 L/min  
AND 7.6 M3 at 760 L/min. FINAL DELTA P = 600 PST

Displacement fluid nature ACTIVE LIQUID Pumped volume 75240 Litres  
 Pressure at the beginning of displacement                      at the end                      at the surge                       
 Estimated losses LOSING 10 BLS/TB UNTIL NEAR END OF DISPLACEMENT  
 Casing string pressuring up at 2500 PST Result HELD 10 MIN OR  
 Residual pressure (eventual) after bleeding off NIL

**6 - SETTING ON SPOOL**

M.D. indication at the end of displacement                       
 M.D. indication after cement setting                      setting tension on spool                      T  
 Casing string set on spool                      h. after the end of displacement  
 Spool : MFG                      Nominal dimensions                      API WP.                       
 Suspension and seal type CAMERON 13-3/8" WEAVER & LOU TORQUE SEAL  
 Additional seal (type - dimensions)                       
 Distance between the upper part of the spool and R.K.B. TO TOP HANGER 84 ft  
 Cut casing N/A cm above the spool

**7 - CONTROL**

Temperature well logging after 8:00 h. setting  
 Cementing log after                      h. setting Top cement annulus 120 m  
 Result of these logs (or enclose a copy) GOOD INDICATION  
 Test casing string + B.O.P.(blind and pipe rams) Test pressure 1500 PST  
 Packer depth : N/A  
 Test result : N/A

# DETAILED COMPOSITION OF THE CASING STRING

F 5 c Bis/3.79

Well site		Casing diameter		RKB height/ <sup>ground</sup> M. L.		Shoe meas <sup>d</sup> depth					
OMEQ 2		13-3/8"		84 M		1062 M					
Joint Number	Equip. <sup>†</sup>		Weight per foot, grade and thread of joints	Unit Length	Cumulated Length	Joint Number	Equip. <sup>†</sup>		Weight per foot, grade and thread of joints	Unit Length	Cumulated Length
	central.	scratch					central.	scratch			
Other equipments						Other equipments					
RKB TO	TOP		HANGER		84.02	41				12.00	570.99
			HANGER & PUP	2.24	86.26	42				12.80	583.79
1				11.30	97.56	43				12.70	596.49
2				11.45	109.01	44				11.57	608.06
3				11.56	120.57	45				11.60	619.66
4				11.61	132.18	46				11.73	631.39
5				12.07	144.25	47				12.10	643.49
6				11.72	155.97	48				12.08	655.57
7				11.63	167.60	49				12.05	667.62
8				11.65	179.25	50				12.05	679.67
9				11.59	190.84	51				12.06	691.73
10				11.77	202.61	52				11.98	703.71
11				11.92	214.53	53				12.06	715.77
12				11.77	226.30	54				12.06	727.83
13				11.96	238.26	55				12.09	739.92
14				11.74	250.00	56				11.75	751.67
15				11.69	261.69	57				11.89	763.56
16				11.61	273.30	58				11.89	775.41
17				11.76	285.06	59				11.76	787.27
18				11.76	296.82	60				11.50	798.77
19				11.92	308.74	61				11.91	810.68
20				12.02	320.76	62				11.98	822.66
21				11.79	332.55	63				12.05	834.61
22				12.03	344.58	64				12.08	846.79
23				11.91	356.49	65				11.89	858.68
24				11.75	368.24	66				11.91	870.59
25				12.05	380.29	67				11.90	882.49
26				11.43	391.72	68				12.07	894.56
27				11.98	403.70	69				12.08	906.54
28				12.40	416.10	70				11.48	918.06
29				11.63	427.73	71				11.75	929.81
30				11.69	439.42	72				11.51	941.32
31				12.60	452.02	73				12.08	953.40
32				11.70	463.72	74				12.08	965.48
33				11.77	475.49	75				12.08	977.56
34				11.81	487.30	76				12.07	989.63
35				11.66	498.96	77				11.87	1001.50
36				11.66	510.62	78	X			11.82	1013.32
37				11.98	522.60	79	X			12.08	1025.40
38				12.06	535.20	80	X			11.50	1036.90
39				11.97	547.17	81	X			11.92	1048.82
40				11.82	558.99	82	X		+ COLLAR & SHOE	12.98	1061.80

**THE DETAILED COMPOSITION OF THE CASING STRING SHOULD BE GIVEN :**

- EITHER from top to bottom. For the upper joint, the length under RKB will only be considered. So, each cumulated length will be the RKB Measured Depth at the bottom of each corresponding joint.
- OR from bottom to top, beginning by the shoe. So the RKB Measured Depth at the bottom of each joint will be the difference between the shoe Measured Depth and the cumulated length at the corresponding joint. The composition of the extension string should be detailed.

Imp. 4993 A SNEA(P) : 959004023

# CASING AND CEMENTING REPORT

# F5a Bis

WELL (Country)	RIG (Contractor)	R K B Ground Height M.L.	Casing Liner	CASING SHOE	Hanger depth (for liners) or changing $\phi$ casing depth :	OPERATION DATE
ONEO 2A (AUSTRALIA)	DM EPOCH (DCM)	84	9 5/8	Measured depth : 2798 Vertical depth :		JUNE 9 85

Open hole diameter : 12 1/4      Depth { Vertical : \_\_\_\_\_ Measured : 2806      Deviation { Mini : 1/2 to 1454 m  
 Important casing (location - average diameter..): \_\_\_\_\_      Maxi : 3 3/8 to 2806 m  
 Below 2300m: 12 1/2 to 13" - Above up to 23"  
 Losses during drilling (levels, extent) None.

Reamer runs (number) 2      Reamer at 1m \_\_\_\_\_ m from the bit  
 Previous casing : Diameter 13 3/8      Shoe at 1062m \_\_\_\_\_ m  
 Bo. Ps on well when running in (Type - equipment, test pressure) Cameron 18 3/8 -- 10000 PS 1

MUD CHARACTERISTICS BEFORE INJECTING SLURRY	S.G.	W.L.	P.V.	Y.V.	VISCOSIMETER READINGS Vs. R.P.M.				
					600	300			
	1.16	9	13	27					

Observations Hole washed out above 2300m.  
 \_\_\_\_\_  
 \_\_\_\_\_

ELEMENT	MFG. type	$\phi$	Weight (lb/ft) or thickness	Thread or joint type	Grade	Special corrosion ?	Inside volume l/m	Length (m)	Number of joints
SHOE	BAKER (Float)	95/8	47lb/ft	BUTT	N80	NO.		0.60	×
COLLAR	BAKER (Foat)	9 5/8	47lbs/ft	BUTT	N80	NO.		0.60	×
EASING		9 5/8	47lbs/ft	BUTT	N80	NO.	38.19	2710.57	230
HANGER+PUB		9 5/8	47lbs/ft	BUTT	N80	No		2.48	
Tripping joint : HW DP		5"	50lbs/ft					83.55	×
Drift diameter in the thickest joint 8.599 INCHES								TOTAL >	2798 m
Maximum permissible tension 494 TONS									
Theoretical weight of the casing string : _____ In air 190 T in mud : 160 T									

CENTRALIZERS	SCRATCHERS	OTHER EQUIPMENT
MGF : WEATHERFORD	MGF : _____	(Description - Location)
TYPE : ST 1	TYPE : _____	9 5/8 x 18 3/4 CIW LOW TORQUE
NUMBER : 6	NUMBER : _____	SEAL ASSY. - SET IN TOP 9 5/8
DEPTH/RKB : 2792	DEPTH/RKB : _____	HANGER
2780		
2768		
2744		
2720		
2696		

1 - WELL CONDITION  
 2 - GENERAL COMPOSITION OF CASING STRING  
 3 - EQUIPMENT OF CASING STRING

4 - RUNNING CASING

Making-up of joint : TO TRIANGLE  
 Grease type used for threads : WEATHERFORD LUBE SEAL  
 Average torque to make-up the joints + 10000 lbs/ft  
 Filling frequency Every 5 joints complete fill  
 Intermediate circulation (duration - depth) NONE  
 Total running time (with circulations) 30 h 30 average rate 17 joints/h  
 Troubles during running Stoop up at 2784- Washed fill down and set casing shoe at calculated depth.  
 Bottom hole circulation : Duration 70min Rate 1100 lit/min Pressure \_\_\_\_\_  
 Reciprocating : Duration \_\_\_\_\_ Rate \_\_\_\_\_ Amplitude \_\_\_\_\_  
 M.D. indications after stop of bottom hole circulation : \_\_\_\_\_  
 Observations : No mud loss while running or circulating casing- set casing hanger with circulating to wash bottom.

5 - SINGLE STAGE OR FIRST STAGE CEMENTING

Service by HALLIBURTON Beginning of slurry making at 21 h 45 h  
 Mixing pump BJ Unit End of slurry making at 23h 20 h  
 Slurry injection pump BJ UNIT End of displacement at 01h h  
 Displacement pump(s) Rig pump oi well P1700 Pressure released in casing at Plug No Dumped h

Nature or class of cements	Sacks or bulk	Cement weight increase %	Water and additives used (nature : quantities)			TONNAGES USED
1 G	B	CALIPER	FRESH WATER	+ 2.5%gel+3.4kg/M3	HALLAD 22A=5,9Lit/M3	60.5 T
2 G	B	CALIPER	FRESH WATER	+ 5,9Lit/M3	HR6.L	8.5 T
3						T

CHARACTERISTICS OF SLURRIES	S.G.	P.V.	Y.V.	VISCOSIMETER READINGS VS R.P.M.					
				600	300				
1	1.62								
2	1.92								
3									

Slurry injection rate 800Lit/Min Displacement rate 1100 Lit/Min  
 Displacement fluid nature SW POLYMER MUD SG-117 Pumped volume 102.2 M3  
 Pressure at the beginning of displacement 200 at the end 1300 at the surge \_\_\_\_\_  
 Estimated losses 9 M3 (42 bbls)  
 Casing string pressuring up at 3000 PSI Result OK. (USING RTTS PACKER)  
 Residual pressure (eventual) after bleeding off NONE

6 - SETTING ON SPOOL

M.D. indication at the end of displacement \_\_\_\_\_  
 M.D. indication after cement betting \_\_\_\_\_ setting tension on spool >            T  
 Casing string set on spool \_\_\_\_\_ h. after the end of displacement  
 Spool : MFG \_\_\_\_\_ Nominal dimensions \_\_\_\_\_ API WP \_\_\_\_\_  
 Suspension and seal type \_\_\_\_\_  
 Additional seal (type - dimensions) \_\_\_\_\_  
 Distance between the upper part of the spool and R.K.B. \_\_\_\_\_  
 Cut casing \_\_\_\_\_ cm above the spool

7 - CONTROL

Temperature well logging after 10 h. setting  
 Cementing log after 30 h. setting Top cement annulus > 1912 M m  
 Result of these logs (or enclose a copy) CEMENT BOND 106 : CEMENT FROM 1950M TO SHOE  
 Test casing string + B.O.P.(blind and pipe rams) Test pressure > 3000PSI  
 Packer depth : 2900M (RTTS PACKER)  
 Test result : TEST OK.

# DETAILED COMPOSITION OF THE CASING STRING

F 5 c Bis/3.79

Well site		Casing diameter		RKB height / <sup>BOOK</sup> M. L.		Shoe measured depth					
OMEQ 2A		9-5/8"		84 M		2798 M					
Joint Number	Equip. <sup>†</sup>		Weight per foot, grade and thread of joints	Unit Length	Cumulated Length	Joint Number	Equip. <sup>†</sup>		Weight per foot, grade and thread of joints	Unit Length	Cumulated Length
	central	scratch					central	scratch			
			Other equipments					Other equipments			
85				11.92	1087.88	128				11.57	1594.18
86				11.68	1099.56	129				11.77	1605.95
87				11.69	1111.25	130				11.76	1617.71
88				11.69	1122.94	131				11.67	1629.38
89				11.96	1134.90	132				11.82	1641.20
90				11.89	1146.79	133				11.70	1652.90
91				11.90	1158.69	134				11.86	1664.76
92				11.97	1170.66	135				11.86	1676.62
93				11.78	1182.44	136				11.01	1687.63
94				11.92	1194.36	137				11.94	1699.57
95				11.48	1205.84	138				11.65	1711.22
96				11.57	1217.41	139				11.41	1722.63
97				11.92	1229.33	140				11.73	1734.36
98				11.92	1241.25	141				11.88	1746.24
99				11.86	1253.11	142				11.82	1758.06
100				11.82	1264.93	143				11.80	1769.84
101				11.75	1276.68	144				11.85	1781.69
102				11.65	1288.33	145				11.71	1793.40
103				11.81	1300.14	146				11.70	1805.10
104				11.72	1311.86	147				11.58	1816.68
105				11.76	1326.62	148				11.62	1828.30
106				11.55	1335.17	149				11.99	1840.29
107				11.77	1346.94	150				11.75	1852.04
108				11.78	1358.72	151				11.74	1863.78
109				11.88	1370.60	152				11.84	1875.62
110				11.83	1382.43	153				11.87	1887.49
111				11.86	1394.29	154				11.92	1899.41
112				11.83	1406.12	155				11.91	1911.32
113				11.58	1417.70	156				11.83	1923.15
114				11.60	1429.30	157				11.56	1934.71
115				11.84	1441.14	158				11.92	1946.63
116				11.76	1452.90	159				11.92	1958.55
117				11.74	1464.64	160				11.87	1970.42
118				11.80	1476.44	161				11.64	1982.06
119				11.75	1488.19	162				11.65	1993.71
120				11.97	1500.16	163				11.59	2005.30
121				11.78	1511.94	164				11.76	2017.06
122				11.78	1523.72	165				11.87	2028.93
123				11.91	1535.63	166				11.73	2040.66
124				11.80	1547.43	167				11.62	2052.28
125				11.55	1558.98	168				11.58	2063.86
126				11.83	1570.81	169				11.79	2075.65
127				11.80	1582.61	170				11.89	2087.54

**THE DETAILED COMPOSITION OF THE CASING STRING SHOULD BE GIVEN :**

- EITHER from top to bottom. For the upper joint, the length under RKB will only be considered. So, each cumulated length will be the RKB Measured Depth at the bottom of each corresponding joint.
- OR from bottom to top, beginning by the shoe. So the RKB Measured Depth at the bottom of each joint will be the difference between the shoe Measured Depth and the cumulated length at the corresponding joint. The composition of the extension string should be detailed.

Imp. 4683 A SNEA(P) - 95004023

# DETAILED COMPOSITION OF THE CASING STRING

**F5c** Bis

Well site		Casing diameter		RKB height / <del>approx</del> M. L.		Shoe meas <sup>d</sup> depth					
OHIO 2A		9-5/8"		84 M		2798 m					
Joint Number	Equip. <sup>†</sup>		Weight per foot, grade and thread of joints	Unit Length	Cumulated Length	Joint Number	Equip. <sup>†</sup>		Weight per foot, grade and thread of joints	Unit Length	Cumulated Length
	central.	scratch					central.	scratch			
			Other equipments								
ROTARY	TABLE		TO TOP HANGER 9-5/8"	11.47	83.65	42				11.47	83.65
HANGER	+ PUP		JOINT	2.48	86.13	43				11.88	86.13
1			N-80, 47 lb/Ft	11.91	98.04	44				12.05	98.04
2			BUTTRESS	11.90	109.94	45				11.88	109.94
3				11.79	121.73	46				11.76	121.73
4				11.90	133.63	47				11.94	133.63
5				11.90	145.53	48				11.87	145.53
6				11.76	157.29	49				11.94	157.29
7				11.65	169.94	50				12.83	169.94
8				11.87	180.81	51				11.76	180.81
9				11.90	192.71	52				11.87	192.71
10				11.79	204.50	53				11.91	204.50
11				11.59	216.39	54				11.90	216.39
12				11.59	228.28	55				11.97	228.28
13				11.85	240.13	56				11.41	240.13
14				11.90	252.03	57				11.75	252.03
15				11.99	264.02	58				11.70	264.02
16				11.92	275.94	59				11.61	275.94
17				11.96	287.90	60				11.78	287.90
18				11.68	299.58	61				11.81	299.58
19				11.78	311.36	62				11.50	311.36
20				11.51	322.87	63				11.53	322.87
21				11.40	334.61	64				11.70	334.61
22				11.75	346.36	65				11.35	346.36
23				11.85	358.21	66				11.79	358.21
24				11.75	369.96	67				11.80	369.96
25				11.93	381.89	68				11.81	381.89
26				11.60	393.49	69				11.81	393.49
27				11.95	405.44	70				11.55	405.44
28				11.89	417.33	71				11.64	417.33
29				11.82	429.15	72				11.75	429.15
30				11.78	440.93	73				11.83	440.93
31				11.95	452.88	74				11.84	452.88
32				11.82	464.70	75				11.91	464.70
33				11.82	476.52	76				11.78	476.52
34				11.60	488.12	77				11.53	488.12
35				11.61	499.73	78				11.81	499.73
36				11.87	511.60	79				11.78	511.60
37				11.86	523.46	80				11.68	523.46
38				11.87	535.33	81				11.56	535.33
39				11.73	547.06	82				10.51	547.06
40				11.89	558.95	83				11.73	558.95
41				11.72	570.67	84				11.91	570.67

**THE DETAILED COMPOSITION OF THE CASING STRING SHOULD BE GIVEN :**

- EITHER from top to bottom. For the upper joint, the length under RKB will only be considered. So, each cumulated length will be the RKB Measured Depth at the bottom of each corresponding joint.
- OR from bottom to top, beginning by the shoe. So the RKB Measured Depth at the bottom of each joint will be the difference between the shoe Measured Depth and the cumulated length at the corresponding joint. The composition of the extension string should be detailed.

INH. 4893 R. SNEA (P). RC.M. 969 RM. 023 F5. ins. 2. 78. 3. 70

# DETAILED COMPOSITION OF THE CASING STRING

**F 5** c Bis/3.79

Well site		Casing diameter		RKB height/ <sup>ground</sup> M. L.		Shoe meas <sup>d</sup> depth					
OIEO 2A		9-5/8"		84 M		2798 M					
Joint Number	Equip. <sup>†</sup>		Weight per foot, grade and thread of joints	Unit Length	Cumulated Length	Joint Number	Equip. <sup>†</sup>		Weight per foot, grade and thread of joints	Unit Length	Cumulated Length
	central.	scratch					central.	scratch			
			Other equipments								
171				11.89	2099.43	213				11.73	2595.35
172				11.55	2110.98	214				11.79	2607.14
173				11.86	2122.84	215				11.70	2618.84
174				11.89	2134.73	216				11.94	2630.78
175				12.20	2146.93	217				11.92	2642.70
176				11.39	2158.32	218				11.82	2654.52
177				11.62	2169.94	219				11.85	2666.37
178				11.80	2181.74	220				11.58	2677.95
179				11.32	2193.06	221				11.90	2689.85
180				11.81	2204.87	222	X			11.88	2701.73
PUP JOINT				2.00	2206.87	223				12.04	2714.13
181				11.77	2218.64	224	X			11.76	2725.89
182				11.88	2230.52	225				11.94	2737.83
183				11.61	2242.13	226	X			11.67	2749.50
184				11.72	2253.85	227				11.76	2761.26
185				11.54	2265.39	228	X			11.90	2773.16
186				11.83	227.22	FLOAT				0.60	2773.76
187				11.79	2289.01	229	X			11.79	2785.55
188				11.94	2300.95	230	X			11.85	2797.40
189				11.85	2312.80	SHOE				0.60	2798.00
190				11.49	2324.29						
191				11.87	2336.16						
192				11.78	2347.94						
193				11.76	2359.70						
194				11.67	2371.37						
195				11.77	2383.14						
196				11.86	2395.00						
197				11.58	2406.58						
198				11.74	2418.32						
199				11.84	2430.16						
200				11.36	2442.02						
201				11.93	2453.95						
202				11.73	2465.68						
203				11.65	2477.33						
204				11.84	2489.17						
205				11.88	2501.05						
206				11.98	2513.03						
207				11.98	2525.01						
208				11.78	2536.79						
209				11.90	2548.69						
210				11.37	2560.06						
211				11.73	2571.79						
212				11.83	2583.62						

**THE DETAILED COMPOSITION OF THE CASING STRING SHOULD BE GIVEN :**

- EITHER from top to bottom. For the upper joint, the length under RKB will only be considered. So, each cumulated length will be the RKB Measured Depth at the bottom of each corresponding joint.
- OR, from bottom to top, beginning by the shoe. So the RKB Measured Depth at the bottom of each joint will be the difference between the shoe Measured Depth and the cumulated length at the corresponding joint. The composition of the extension string should be detailed.

Imp. 4993 A SNEAP/ 969004023



PE906219

This is an enclosure indicator page.  
The enclosure PE906219 is enclosed within the  
container PE906218 at this location in this  
document.

The enclosure PE906219 has the following characteristics:

ITEM\_BARCODE = PE906219  
CONTAINER\_BARCODE = PE906218  
NAME = Penetration Chart  
BASIN = GIPPSLAND  
PERMIT = VIC/P17  
TYPE = WELL  
SUBTYPE = DIAGRAM  
DESCRIPTION = Penetration Record for Omeo-2A  
REMARKS =  
DATE\_CREATED =  
DATE\_RECEIVED = 12/12/85  
W\_NO = W907  
WELL\_NAME = OMEO-2A  
CONTRACTOR =  
CLIENT\_OP\_CO = AUSTRALIAN AQUITAINE PETROLEUM

(Inserted by DNRE - Vic Govt Mines Dept)

elf aquitaine

## TIME DISTRIBUTION

F6 bis/12-80

OPERATOR		COUNTRY			WELL				RIG				CONTRACTOR				MONTH/YEAR			
A.A.P		AUSTRALIA			OMEO 2 / 2A				DIAMOND M EPOCH				DIAMOND M EXPLORATION CO				MAY-1985			
DAY	Number of day from start drilling	D MOVING			F DRILLING - CASING				G FORMATION SURVEYS				A INTERRUPTION OF OPERATIONS UNDER F or G				C COMPLETION AND PLUGGING			
		D <sub>1</sub>	D <sub>2</sub>	D <sub>3</sub>	F <sub>1</sub>	F <sub>2</sub>	F <sub>3</sub>	F <sub>4</sub>	G <sub>1</sub>	G <sub>2</sub>	G <sub>3</sub>	G <sub>4</sub>	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	A <sub>4</sub>	C <sub>1</sub>	C <sub>2</sub>	C <sub>3</sub>	C <sub>4</sub>
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10	1	12																		
11	2	24																		
12	3				13			11												
13	4							24												
14	5							0.5						7.5		16				
15	1	3	0.5	12	3.5	5														
16	2							24												
17	3				20	3	1													
18	4				16.5	4.5	2	1												
19	5				24															
20	6				3			15			6									
21	7				4	8	10				2									
22	8				19.5	4.5														
23	9				15	4	5													
24	10					4	1.5							18.5						
25	11				20	0.5	3.5													
26	12				22.5		1.5													
27	13				21.5		2.5													
28	14				8.5	8	7.5													
29	15				17	4	0.5		1.5					1						
30	16				15.5	4.5	1.5		2					0.5						
31	17				24															
TOTAL		39		0.5	256	29.5	44.5	91.5	3.5		8			27.5		16				
TIME OF SIDE-TRACK DRILLING					TIME OF LOGGING BY A FISHING JOB					Causes of side track } Fishing job unsolved <input type="checkbox"/> } Accidental on Plug <input type="checkbox"/> } Correction of drill-path <input type="checkbox"/>										
N.B. : 1) Add an asterisk to each following day times : • Time spent on F1, F2, F3 for technical side-tracks, until the initial depth of the old hole is reached. • Time spent on G4 for logging necessitated by a fishing job. 2) Side-track drilling further to a change in the geological target is considered as a new hole, whose the name changes (add G to the old one). A new form is open up from the first day of the side track																				

elf aquitaine

# TIME DISTRIBUTION

F6 bis/12-80

<b>OPERATOR</b> A.A.P	<b>COUNTRY</b> AUSTRALIA	<b>WELL</b> OMEQ 2A	<b>RIG</b> D.M. EPOCH	<b>CONTRACTOR</b> DM CO.	<b>MONTH/YEAR</b> JUNE 85
--------------------------	-----------------------------	------------------------	--------------------------	-----------------------------	------------------------------

DAY	Number of day from start drilling	D MOVING			F DRILLING - CASING				G FORMATION SURVEYS				A INTERRUPTION OF OPERATIONS UNDER F or G				C COMPLETION AND PLUGGING			
		D <sub>1</sub>	D <sub>2</sub>	D <sub>3</sub>	F <sub>1</sub>	F <sub>2</sub>	F <sub>3</sub>	F <sub>4</sub>	G <sub>1</sub>	G <sub>2</sub>	G <sub>3</sub>	G <sub>4</sub>	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	A <sub>4</sub>	C <sub>1</sub>	C <sub>2</sub>	C <sub>3</sub>	C <sub>4</sub>
1	18				12	10	1									1				
2	19				24															
3	20				16							8								
4	21											24								
5	22											24								
6	23				0.5							23.5								
7	24											24								
8	25							10.5				13.5								
9	26											24								
10	27					6.5	4	11.5				2								
11	28				1.5		2	18				2.5								
12	29				16	4.5	0.5			2		1								
13	30				18.5	4	1.5													
14	31				12.5	3.5	5.5			2.5										
15	32				21					3										
16	33				15.5	5.5				3										
17	34				20	2.5				1.5										
18	35				24															
19	36				24															
20	37				5.5							18.5								
21	38											19.5						4.5		
22	C1											2							22	
23	C2																		24	
24	C3	8	4																12	
25	D1	17	7																	
26	D2	7																		
27																				
28																				
29																				
30																				
31																				
<b>TOTAL</b>		<b>32</b>	<b>11</b>		<b>211</b>	<b>36.5</b>	<b>14.5</b>	<b>40</b>		<b>12</b>		<b>186.5</b>			<b>1</b>			<b>62.5</b>		

TIME OF SIDE-TRACK DRILLING

TIME OF LOGGING BY A FISHING JOB

- Causes of side track
- Fishing job unsolved
  - Accidental on Plug
  - Correction of drill-path

N.B. : 1) Add an asterisk to each following day times :  
 • Time spent on F1, F2, F3 for technical side-tracks, until the initial depth of the old hole is reached.  
 • Time spent on G4 for logging necessitated by a fishing job.  
 2) Side-track drilling further to a change in the geological target is considered as a new-hole, whose the name changes (add .G to the old one). A new form is open up from the first day of the side track.

PE906220

This is an enclosure indicator page.  
The enclosure PE906220 is enclosed within the  
container PE906218 at this location in this  
document.

The enclosure PE906220 has the following characteristics:

ITEM\_BARCODE = PE906220  
CONTAINER\_BARCODE = PE906218  
NAME = Bit Record  
BASIN = GIPPSLAND  
PERMIT = VIC/P17  
TYPE = WELL  
SUBTYPE = DIAGRAM  
DESCRIPTION = Bit Record for Omeo-2A  
REMARKS =  
DATE\_CREATED =  
DATE\_RECEIVED = 12/12/85  
W\_NO = W907  
WELL\_NAME = OMEO-2A  
CONTRACTOR =  
CLIENT\_OP\_CO = AUSTRALIAN AQUITAINE PETROLEUM

(Inserted by DNRE - Vic Govt Mines Dept)