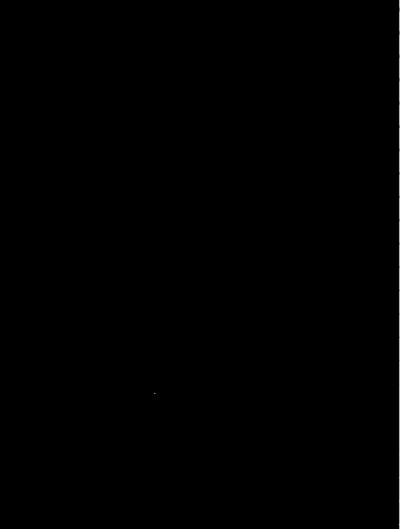


DEPT. NAT. RES & ENV PE906397



<u>GIPPSLAND BASIN</u> <u>VIC-P17</u> <u>OMEO NO. 1</u> <u>FINAL TECHNICAL REPORT</u> (<u>DRILLING</u>)

F3a Bis 2-78		WELI	L DATA	18-19-19-19-19-19-19-19-19-19-19-19-19-19-	WELL: TARRA 1
7) WELL NAME :	TARRA NO. 1		2) ID EN T .: _	TRA1	L
3) GEOGRAPHICAL ARE	A <u>BASS ST</u>	RAIT	4) GEOLOGIC	AL BASIN	GIPPSLAND
5) FIELD : WILDC	AT		6) BLOCK	VIĊ-P17	
7) PERMIT/HOLDERS : VIC-P17	8) PARTNERS :		<u>.</u>		
AAP & PARTNERS	Nar AUSTRALIAN ALLIANCE RE AGEX PTY. L	OCCIDENT SOURCES	PTY_LTD_25	CONSOLIDA	Name % TED PET. AUST. 12.5 ITAINE PET. 25
9) OPERATOR : AUST	I RALIAN AQUITAINE		11) REFERE		
PETRI	OLEUM PTY. LIMIT	<u>ED</u>	OMEO NO EDINA N		
10)INITIAL STATUS 12)	LOCATION COORD	INATES	LUINA N	0. 1	
Exploration X Lana Development Swan Other	hore 101 Latitu	_{de} 3 <u>8⁰38</u>	<u>coordinates</u> '37.15" S 2'08.20" E	reference merid	X(m)
Other Dthe		ude <u> </u>		Greenwich 🛛	Z(m)
SITE	LAND	01	FFSHORE	SWAMP	OTHER
Distance RKB/REF.					
Reference	GROUND	MUDLIN	ZERO HYDRO		
13) DRILLING OBJECTIN	VES				
Objective n ⁰	Formation		Formation tops vertical depth	Departu	re Direction
	RZELECKI		2547m (RKE	3)	
(ACCUMULATIONS BELC HORIZON)	DW THE BLUE				
14) WELL COURSE	15) WAS T	HE OBJEC	TIVE REACHE	D ?	
Vertical Deviated	OBJECTIVE	yes	по ve	rmation tops	eparture Direction 3/4 ⁰
	OBJECTIVE	2			
Normal Sco	OBJECTIVE	3 🗆	□		
		4	<u> </u>		· · · · · · · · · · · · · · · · · · ·
16) RESULTS Dil produc Gas produ Water prod	uction		but no reservoir ion well	🖻 Plug	porarily plugged ged and abandonned pleted
17) DATES (•)			18) WELL E		
BEGINNING	END		Total depth	2905m	Versient death 2905n
Mell 1.3.83 Drilling : 4.3.83	Drilling3.4.8 Well21.4.8		Drilled footage	$\frac{2812m}{1.340^{\circ}}$	Lost footage :
TOTAL DURATION Well	L	days - days	19) COSTS Before drilling During drilling	<u>118,496</u> 7,941,104	Direction
			After drilling Total well	8,059,600	

	2-78	LOGISTICS	WELL: TAR	RA 1
	AUSTRALIAN AOUT	TAINE PETROLEUM PTY. LTD.		
A rea management	· · · · · · · · · · · · · · · · · · ·	, NORTH SYDNEY, N.S.W. 2060	0	
Located :	P.O. BOX 725	• · · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
Land Base	AQUITAINE WELSH	POOL SHORE BASE		
	MIDLAND HIGHWAY			
Located :	WELSHPOOL. VIC.	3966		
	P.O. BOX 27			
• SERVICE CON	PANIES			
- Mud	BAROID	- Under water T.V.	ODECO	
- Mud logging	GEOSERVIC	ES Testing	HALLIBURTON	
. Production te	FLOPETROL		CAMERON	
. Fishing	TRISTATE	 _ Depollution	AAP	
- Positioning	DECCA SUR	VEY Air transportation	COMMERCIAL AVIA	TION
Electrical log	•		AOS	
- Meteo	MELBOURNE		"LADY JANE"	
_ Diving	OCEANEERI		"SEA SAPPHIRE"	
-		HLUMBERGER	STAND BY-	
. H.P. Pumping	BAROID		LOMBARDO MARINE	
- Bulking	DARUID		:	V II
	:		"CHRISTMAS CREE	K

F3b Bis :	2-78				KUNMEN				RCLL - LARR
AREA -	L	AND			SEA X		SWAMP		LAKE
	ALTITUDE	1	SEA L	EVEL		,	WATER DEPT	н	: <u>63m</u>
DISTANCE	FROM BASI	E :	107	KM		DIST	ANCE FROM	SHORE	: <u>53m</u>
• RELIEF	Flat		Slightly undulate		Undulate		Very undulate	. 🗆	
• SEA CONDITIONS	Calm		Medium		Strong	X	Very strong		
POLLUTION RISK	Low		Medium	X	High		Very high		
• WEATHER	Equatorial		Hot		Temperate		Cold	X	Arctic
• POPULATION DENSITY	Nil	<u>-χ</u>	Lov	•	Medium		High		Very F high L
			~						
				MEA	NS USEI)			
• NAME OF THE	E RIG (LAN	(D) : _		MEA	NS USEI)			
• <u>NAME OF THE</u> • <u>SUPPORT</u> • • <u>TYPE</u>	E RIG (LAN Land	(<u>q)</u> , ,	ور میں		NS USEI		Drillship		Semi- submersible
• SUPPORT •		•	 Artifici island Non assiste Platform 				Drillship Tender		Semi- submersible Other
• SUPPORT •	Land Swamp barge			ial	_r Jack-ur Assisted platform				submersible L
• SUPPORT • • TYPE	Land Swamp barge		Non assiste Platform OCEAN	ial d DIGGE	Jack-ur Assisted platform		Tender		submersible C
• <u>SUPPORT</u> • • <u>TYPE</u> • <u>SEA SUPP</u>	Land Swamp barge		Non assiste Platform OCEAN	ial d DIGGE	Jock-ur Assisted platform		Tender		submersible E Other [

F3b' Bis 2-78	MEANS	USED (cto	i)	WELL: TARRA 1
DRILLING EQUIPMENT	REMSCO_MODEL #	1500 E	CONTRACTOR :	ODECO
RANGE • Light] Medium 🗌	Heavy X	Super Heavy	Extra Heavy
TRANSMISSION •	Mechanical 🗍	Electric X	Hydraulic 🗌	
MAIN PUMPS .	Number 2 EN	MSCO D-1350 HP	Total hydraulic	power .
RIG DESIGN •	Normal design X	Compact	Portable	Helirig
	Flexorig	Automatic racking	Winterised 🗌	
B.O.P. STACK	Dia	meter		API WP
Number 1	18 3/4"	CAMERON "U"	10,000	PSI
Number 2	18 3/4"	HYDRIL	5,000	PSI
Number 3				
WELL HEAD	Manufacturer	Туре	Diameter	API WP
Number 1	CAMERON	TORQUE SET.	18 3/4"	<u>10,000 PSI</u>
Number 2				
Number 3				
MUD LINE SUSPENSION:	yes no	Manufa	cturer :	
RISER	iber 1	Т	Numbe	or 2
Diameter : <u>50'x</u>	<u>22" ODx0.50"</u> WALL	Diamete	• : <u></u>	
Connector : VETC	0 MR-6B	Connect	or :	······································
Buoyancy system :	ne 🗶	yes 🔲 Buoyanc	y system	no yes

yes	Buoya

و بيبين منها منه بيبين بيبية محت مين منها الحدة الألب المرا

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F3C Bis 2-78		TECHNI	CAL SECTION		W	IELL : TARRA 1
• OPEN HOLE S				• CASINGS •		
DIAMETER	TOTAL DEPTH METRES	DIAMETER	COMPOSITE STRING DIAMETERS	shoe depth METRES	HANGER DEPTH METRES	TOP CEMENT IN ANNULUS
26"	219	20"		211m	91m	SEA BED
					TOP SEAL ASSMY.	
17½"	1010	13 3/8"		1002m	93.34m	500 mtrs RKI
12¼"	2580	9 5/8"		2567m	92.34m	2070RKB
8½"	2905				·	
·						
		i				

,

	State State Contract State Sta	e de la						

F	3c' Bi	s 2-7	8				FOOT	AGE	(ME	TERS	0 R	FEE	ΞŤ)				WELL	:	A
Interval	Total footage the interval		DRILLIN	1G		CORIN	G	τυ	RBODRIL	LING	1	DRILLIN HOLE OF	G	HOLEC	PENING	AND	ILLING D/OR MING	Abandonned footage in the interval	
<u>-</u>	in the	Ø	mor	h	Ø	m or	h	Ø	m or ft	h	Ø	m or ft	h	m or ft	h	m or	h	Abar for in the	
26"	126	26	126	9 ¹ 2															
]7½"	791	17½	791	52			1									159	7.5		
12¼"	1570	12¼"	1570	142.5												1013	21		
8½	325	8 ¹ 2	325	75	8 ¹ 2	22	7.5									73	4.5		
									l _i				*****						+

.

•	3 d Bi			CORE DA	ATA SUN		PTH		WELL : TARRA
Core		PTH orm.	07	Formation	Core		orm.	30	Formation
Number	from	to	Recovered		Number	from	to	Recovered	
]	2797	2804	21.4	LITHIC SANDSTONE	-				
2	2890	2905	91	LITHIC SANDSTONE					
									· · ·
								-	
				CLA	BS				
Run Nº		PTH orm.	Number of	Formation	Run Nº		P TH rm.	Number of	Formation
- M	from	to	samples			from	to ,	samples	
1	2105	2568	30	100% REC SANDSTC SHALE CLAYSTONE 97% REC SANDSTON					
2	1134	2314	30	SHALE/CLAYSTONE					
۲	1	0570	30	100% REC LITHIC SANDSTONE CLAYST	ONE				
3	2880	2570					I		
·	2880	2570		· · · · · · · · · · · · · · · · · · ·					
·	2880	2570							
·	2880	2570							
3	2880	2570							

Test			Type of	Tested	l interval	Suc	ceful	Reasor of failur			-		
N° ·	Da	te	test ·	from ft or m.	to ft or m.	Yes	No	_of tailut (**)	e	Observ	vations		
												-	
						Ī					_	·	
												р	
									-	<u>→ 112</u>			
- то				full diameter					Packer I				
STO	OHR -	 Straddl Straddl 	le test op	oen hole rat h				IN -	Test inte	t opened errupted			
TC	OHR SG - CSG -	Straddl Test c Straddl	le test op asing le test ca	een hole rat h using val tester	ole	1.066		XX -	Other (t		d)		
TC ST(FIT	OHR SG CSG T -	Straddi Test c Straddi Format	le test op asing le test ca tion inter	en hole rat h using val tester ELE	ole ECTRICAL		iING	XX -	Other (tr	errupted		Scales	5
TC ST(OHR SG CSG T -	Straddl Test c Straddl	le test op asing le test ca tion inter	en hole rat h using val tester ELE	ole		ING	XX -	Other (tr	errupted o be specifie			1
TC ST(FIT	OHR - SG - CSG - T -	Straddi Test c Straddi Format	le test op asing le test ca tion inter te	en hole rat h Ising val tester ELE Natur	ole ECTRICAL	0	iING	XX SUMMAI	Other (t ?Y DEPTH	errupted o be specifie ft or m.			1/5
TC ST(FI]	OHR - SG - CSG - T - rval	Straddl Test c Straddl Format	le test op asing le test ca tion inter te 3.83	en hole rat h Ising val tester ELE Natur	ECTRICAL re and Run N /SLS/GR-SF	0	ING		Other (t ?Y DEPTH from	errupted o be specifie I ft or m. to		1/200	1/5 X
TC ST(FI1	0HR - SG - CSG - T - rval 2"	Straddl Test c Straddl Format Da 12.3	le test op asing le test ca tion inter te 3.83 3.83	val tester No. 1 ISF NO. 2 LDL	ECTRICAL re and Run N /SLS/GR-SF	° ?/CAL	ING		Other (t RY DEPTH from 006.5	errupted o be specifie I ft or m. to 211		1/200 X	1/5 X X
TC ST(FI1 Intel 17 ¹ / ₂	0HR - SG - CSG - T - rval 2" 2"	Straddl Test c Straddl Format Da 12.3	le test op asing le test ca tion inter te 3.83 3.83 3.83	val tester No. 1 ISF NO. 1 ISF NO. 1 ISF	ECTRICAL re and Run N /SLS/GR-SF /CAL/GR	°/CAL	iING		Other (t RY DEPTH from 006.5 009	errupted o be specifie I ft or m. to 211 211		1 200 X X	1/50 X X X
TC ST(FI1 Inter 17 ¹ / ₂ 17 ¹ / ₂	0HR - SG - CSG - T - rval 2" 2" 2" 2" 4"	Straddl Test c Straddl Format Da 12.3 13.3 25.3	le test op asing le test ca tion inter te 3.83 3.83 3.83 3.83	val tester No. 1 ISF NO. 1 ISF NO. 1 ISF	ECTRICAL re and Run N /SLS/GR-SF /CAL/GR /SLS/GR/SF /CNL/GR/CA	°/CAL	iING		Other (t) RY DEPTH from 006.5 009	errupted o be specifie		1 200 X X X	1/50 X X X
TC ST(FI1 Inter 17 ¹ / ₂ 12 ¹ / ₂	0HR - SG - CSG - T - rvai 2" 2" 4" 4" 4"	Straddl Test c Straddl Format Da 12.3 13.3 25.3	le test op asing le test ca tion inter te 3.83 3.83 3.83 3.83 3.83	val tester ELE Natur NO. 1 ISF NO. 2 LDL NO. 1 ISF NO. 2 LDL NO. 3 HDT	ECTRICAL re and Run N /SLS/GR-SF /CAL/GR /SLS/GR/SF /CNL/GR/CA	2/CAL 2/CAL	iING		Other (t) RY DEPTH from 006.5 009 2570 2570	errupted o be specifie I ft or m. 211 211 1002 1002	1/20	1 200 X X X X	1/5 X X X X
TC ST(FI1 Inter 17 ¹ / ₂ 17 ¹ / ₂ 12 ¹ / ₄ 12 ¹ / ₄	0HR - SG - CSG - T - rval 2" 2" 4" 4" 4" 2" 2"	Straddl Test c Straddl Format Da 12.3 13.3 25.3 25.3 25.3	le test op asing le test ca tion inter te 3.83 3.83 3.83 3.83 3.83 3.83 3.83 3.8	val tester No. 1 ISF NO. 2 LDL NO. 2 LDL NO. 2 LDL NO. 3 HDT NO. 1 ISF	ole ECTRICAL re and Run N /SLS/GR-SF /CAL/GR /SLS/GR/SF /CNL/GR/CA	P/CAL P/CAL	iING		Other (t) RY DEPTH from 006.5 009 2570 2561	errupted o be specifie	1/20	1 200 X X X 	1/50 X X X X
TC STC FI1 Intel 17 ¹ / ₂ 17 ¹ / ₂ 12 ¹ / ₄ 12 ¹ / ₄ 12 ¹ / ₄ 8 ¹ / ₂	OHR - SG - CSG - T - rval 2" 2" 2" 4" 4" 4" 2" 2" 2" 2" 2" 2" 2" 2" 2" 2" 2" 2" 2"	Straddl Test c Straddl Format Da 12.3 13.3 25.3 25.3 25.3 3.4.	le test op asing le test ca tion inter 3.83 3.83 3.83 3.83 3.83 8.83 8.83 8.8	val tester No. 1 ISF NO. 2 LDL NO. 2 LDL NO. 2 LDL NO. 3 HDT NO. 1 ISF	ECTRICAL re and Run N ¹ /SLS/GR-SF /CAL/GR /SLS/GR/CA /SLS/GR/CA /SLS/GR/CA	P/CAL P/CAL	ing		Other (t) RY DEPTH from 006.5 009 2570 2570 2561 2904	errupted o be specifie I ft or m. 211 211 1002 1002 1650 2566.6	1/20	1 200 X X X X X X	1/50 X X X X X
TC STO FIT Inter 17 ¹ / ₂ 12 ¹ / ₄ 12 ¹ / ₄ 8 ¹ / ₂ 8 ¹ / ₂	OHR - SG - CSG - T - rvai 2" 2" 2" 4" 4" 4" 4" 4" 2" 2" 2" 2" 2" 2" 2" 2" 2" 2" 2" 2" 2"	Straddl Test c Straddl Format Da 12.3 13.3 25.3 25.3 25.3 25.3 3.4. 3.4.	le test op asing le test ca tion inter te 3.83 3.83 3.83 3.83 3.83 3.83 8.83 8.8	val tester ELE Natur NO. 1 ISF NO. 2 LDL NO. 2 LDL NO. 3 HDT NO. 1 ISF NO. 2 LDL NO. 1 ISF NO. 2 LDL	ECTRICAL re and Run N /SLS/GR-SF /CAL/GR /SLS/GR/CF /CNL/GR/CF /CNL/GR/CF	P/CAL P/CAL	iING		Other (t) RY DEPTH from 006.5 009 2570 2570 2570 2561 2904 2904	errupted o be specifie	1/20	1 200 X X X X X X X X X	1/5/ X X X X X X X
TC STC FIT Inter 17 ¹ / ₂ 17 ¹ / ₂ 12 ¹ / ₄ 12 ¹ / ₄ 12 ¹ / ₄ 8 ¹ / ₂ 8 ¹ / ₂ 8 ¹ / ₂	OHR - SG - CSG - T - rvai 2" 2" 2" 4" 4" 4" 4" 4" 2" 2" 2" 2" 2" 2" 2" 2" 2" 2" 2" 2" 2"	Straddl Test c Straddl Format Da 12.3 13.3 25.3 25.3 25.3 25.3 3.4. 3.4. 3.4.	le test op asing le test ca tion inter te 3.83 3.83 3.83 3.83 3.83 3.83 8.83 8.8	val tester ELE Natur NO. 1 ISF NO. 2 LDL NO. 2 LDL NO. 2 LDL NO. 3 HDT NO. 2 LDL NO. 3 HDT NO. 3 HDT	ECTRICAL re and Run N /SLS/GR-SF /CAL/GR /SLS/GR/CF /CNL/GR/CF /CNL/GR/CF	P/CAL P/CAL	iING		Other (t) RY DEPTH from 006.5 009 2570 2570 2561 2904 2904 2904	errupted o be specifie	1/20	1 200 X X X X X X X X X	1/50 X X X X X X X X

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F3e' Bis 2-78	INTERRUPT	IONSC	F OP	ERATIO	N S		W	ELL : TAR	.RA 1
OPERATIONS IN PROGRESS	REASONS	STIC	:KING IING	1	, FLOWING EATMENT	WAITING	DN WEATHER	WAITING	G·OTHER
	DURATION	Number	Duration (h)	Number	Duration (h)	Number	Duration (h)	Number	Durati (h)
	Less than 24 h		in e Sales de la Sales de la secondada		in the second			1	8
Moving	From 1 to 5 days							1	310
(D2-D3)	More than 5 days								
	TOTAL							· · · · · · · · · · · · · · · · · · ·	
	Less than 24 h	1	1						
Drilling, casing formation surveys	From 1 to 5 days				62		_68.5	2	4
(A 1- A 2- A 3- A 4)	More than 5 days								
·	TOTAL								
	Less than 24 h		· · ·			1	_21	*******	
Completion	From 1 to 5 days			L L					
(C3-C4)	More than 5 days								
	TOTAL		•		· · · ·				
τοτα	L	1	<u> </u>	<u> _1</u>	62	2		4	322
	(During movi					: <u>319 HOU</u>		
	ION OF INTERRUPTIONS		ng • Casing Netion and pla		surveys	-	: <u>4 HOU</u> AS LAST A	NCHOR MOV	
NB: WAITING ON COMMONWEALTH AUTHOR TO MOVE THE RIG DURING 13 DAYS	ITY AUTHORIZATION		·		XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		CARRIED A	S ABOVE I	<u>N</u>

	F3	e Bis 2-78	TI	ME	DIST	RIBU	TION			WELL	.: <u></u>	RA 1
					INT	ERVALS	i : Durat	ion in ha	ours			D
		● ITEMS ●		26"	<u>17½"</u>	<u>12¼"</u>	<u>81</u> "	<u>'C'</u>	<u>'D'</u>			d
	Dı	Rigging up, transportation and tearing down	46						15.5	0		5 6
MO VING	D2	Waiting on weather										
-	D3	Waiting : other	8						210			2 3
U Z	F۱	New hole drilling		9.5	52	142.2	75					2
- CASING	F2	Drilling trips		5.5	5	43.5	18					_
DRILLING -	F3	Miscellaneous drilling operations			4	22	5.5					
DR	F4	Casing and cementing		38.5	37	47						
EΥS	Gı	Coring					7.5					
I SURVEYS	G2	Coring trips and miscellaneous					22.5					-
RMATION	G3	Testing and related operations		-								_
FOR	G₄	Electrical logging			17.5	24	26					ц. Ц.
OF F&G	A 1	Sticking - Fishing				1						(
INTERRUPTIONS OF OPERATIONS UNDER F	A 2	Losses and well flowing mud treatment			62							
ERRUP TIONS	A 3	Waiting on weather			7	68.5						
INT OPER≜	A 4	Waiting : other			1.5		2.5					-
9	Cı	Completion - Formation treatment and Production tests										
PLUGGING	C2	Abandon					65.5					
COMPLETION PLUGGING	C₃	Waiting on weather					21					2
Ō	C4	Waiting : other										
DU R.	ATIO	N BY INTERVAL	54	53.5	186	348.5	157	86.5	325.	5		

F3f	Bis 2-78		MUD SUM	IARY	BY IN	TERVAL		WELI	<u>TARRA</u>	1			
INTERVAL	26" PHASE		Fr	om	: _	91m (SE	A BED)	to :	219m				
Mud type used	d in this interv	al	:SEAWATER WITH HI VIS FLOCCULATED GEL SLUGS										
USEFUL D CAS Diameter : _ Hanger : _ Shoe Casing : Lenght : _	INGS 20" 91m 211m 133 #	-Initial -Added ₋ Jetted -Losse	ANCE OF VOLUN on m3 volume : volume : volume : s in formation:	08 80 88 	(m or f Footo Avero Intern	DRILLING Drilled {from: 91m duration {from: 4 MAR (m or ft) {to : 219m duration (date) {to : 4 MAR to : 4 MAR to : 1 DAY Average (m or ft) : 128m in : 1 DAY Average dllg rate 19.1m/hr drilling hours : 6.7 H Internal casing vol.: Losses : Pumping rate : 100 SPM - 20.7 BBL							
• MUD CHA							MPTIONS	•					
mi	ni maxi	average	CHEMICALS		Qi otal or T	UANTITY Kg/ft or m drilled	Kg⁄m ³	Unit Price	COST Total Cost	0 ₀			
		<u>1.05</u>	AQUAGEL	14.	971	117.0	52.0	14.00	4,620.00	87			
		100	CAUSTIC	0.	350	2.7	1.2	74.70	373.50	7.0			
P.V. > Y.P. - 0' 5 10'			SODA ASH	0.	320	2.5	1.1	13.88	111.04	2.0			
O 10' AP1 ▲ HP-HT ≪ Pressure T° Ph			LIME	0.	750	5.8	2.6	6.75	202.50	4.0			
Pf Pm Ca (g,'l) SO4Ca													
Cina CaCl2													
% oil oil/water ratio % solids Solids density													
% Sand T °C													
Depth-(ft) (M) FROM	Litholog	-											
91m	CORAL SAND		TOTAL 16,391 5,307.04 100 Total cost of { Interval :										
219m	SILTSTONE		Currency : <u>AUSTRALIAN DOLLARS</u> Conversion rate used :										

		s 2-78		MUD SUM		<u> </u>				L : <u>TARRA</u>				
INTERVA	L	17½"	HOLE	Fr	om		219n	<u></u>	to :	TUTUM				
Mud type	used i	n this inte	erval :	SE/	AWATER	/GEL/N	ATIVE CL	_AYS/LIM	E					
• USEF	UL DA	TA •			1					·				
	CASIN			BALANCE OF VOLUMES on m3				DRILLING						
- Diamete - Hanger			Initial	volume : volume : _134	<u></u> 12m ³	$\begin{array}{c} \textbf{Drilled} \\ (\textbf{m or ft}) \end{array} \begin{cases} \textbf{from}: \underline{-219m} \\ \textbf{to}: \underline{-1010m} \\ \textbf{(date)} \end{cases} \begin{array}{c} \textbf{from}: \underline{5} \\ \textbf{march} \\ \textbf{to}: \underline{11} \\ \underline{11} \\ \underline{MARCH} \\ \textbf{march} \end{cases} \\ \textbf{Footage (m or ft)}: \underline{-791m} \\ \textbf{in}: \underline{7} \\ \underline{DAYS} \\ \underline{0} \\ $								
- Shoe :				volume :		Foota	ge (m or ft)	: <u>791</u>	<u>m</u>	in : $\frac{7 \text{ DA}}{36 \text{ HO}}$				
		Blbs/ft		s in formation			ge diig rate al casing v		≺	ours : <u>36 HO</u> :				
– Lenght	:	<u>909.011</u>	Final	volume : <u>13</u>	100	I	^D umping rat	e : <u>100</u>	SPM-20.	7 BBL/HR				
• MUD	CHAR				<u> </u>		• CONSU		•					
	mini				T o	QL	Kg ft	3	Unit	COST Total				
tin flow	1.0	_	_	CHEMICALS		or T	or m drilled	Kg′m ³	Price	Cost	°0			
Goutflow Tooutflow	1.0			BARITE	14.	972	18.93	11.2	8.00	2,641.00	12.0			
<u></u> ₹ M.V.	26	40	35			100	00.05	17.0	14 00	7 140 10	22 5			
.V.M. v.	<u></u>	-	-	AQUAGEL	23.	138	29.25	17.2	14.00	7,140.10	52.5			
> _{Υ.Ρ.}				CAUSTIC	0.	560	0.71	0.42	74.70	596.60	2.7			
ہ 0 [.] 10 [.] و			-	SODA ASH	0.	560	0.71	0.42	13.88	194.32	0.9			
API ⊐ ≯ HP∎HT	NC	<u>NC</u>	<u>NC</u>	LIME	1.	725	2.18	1.28	6.75	465.75	2.0			
L MP-HT APressure T°		-		KWIK SEAL	3.	636	4.59	2.71	48.22	9,644.00	44.0			
Ph Pf	7.0	10.0	8.0	MICA	0.	950	1.2	0.71	12.72	636.00	3.0			
Pm Ca`(g l)		_	-	CAL CHLORIDE	1.	350	1.71	1.0	11.46	618.84	2.9			
504Ca Clna	2100	0 21500	21250	(THE RELAT	IVELY	HIGH	COST OF	THIS PH	SE WAS M	AINLY DUE	то			
CaCl2	100	2000)	LOST CIRCU UPPER LIME	JLATIO ESTONE	N PROE /CALCA	AREOUS SE	COUNTERE ECTIONS)	DWHILE	DRILLING T	HE			
o water o oil	<u>95</u>	_						l l l l l l l l l l l l l l l l l l l						
il/water ratio solids	0	-	2.5											
Solids density			-											
6 Sand Γ°C														
Depth (m)	Litho	logy											
219		LIMESTO	NE	TOTAL	46,89	1.00				21,937.61	100			
326			CORAL FR	AG		I		A\$ 21,9	37 61	1	<u> </u>			
837	·	CALCARE	NITE	Total cost	of Z	Interva Drilled		A\$	27.70					
1010		LIMST./		Currency	:			AUSTRAL	IAN DOLL	ARS				
	·	LINJI./	<u>ULAISIA</u>	Conversion	rate uso	ed	:				<u> </u>			

F 3t	Bis	2-78		MUD SUM	MARY B	Y IN	TERVAL		WELI	_ : TARRA	1	
INTERVAL		12¼" H	IOLE	Fr	om	: _	1010	M	to :	2581M		
Mud type u	sed in t	this interv	al :		GEL/POL	YMER						
 USEFUL Diameter Hanger Shoe Casing Lenght 	ASINGS 95/ 94. 2567 4716	28" 3m 7m 5 FT	BALA - Initial - Added - Jetted - Losses	ALANCE OF VOLUMES on m3 tial volume : <u>176</u> led volume : <u>943</u> ted volume : <u>961</u> sees in formation: <u>10</u> al volume : <u>148</u> Drilled {from: <u>1010</u> (m or ft) {to : <u>2581</u> Footage (m or ft) : <u>1571</u> Average dllg rate <u>10.99</u> Internal casing vol. :				m: <u>1010</u> : <u>2581</u> : <u>1571</u> : <u>10.99M</u> ol.: re :6	Ndrilling h Losses 0 SPM 19 12.47	in : <u>12 D/</u> ours : <u>143</u>	<u>ARCH</u> <u>ARCH</u> <u>AYS</u>	
• MUD C	HARA	CTERIST			1		CONSU	MPTIONS	•			
	mini	· · · · · · · · · · · · · · · · · · ·	average	CHEMICALS	Tota m ³ or		Kg/ft or m drilled	Kg⁄m ³	Unit Price	COST Total Cost	0 ₀	
	.11 .12	$\frac{1.18}{1.18}$	$\frac{1.16}{1.16}$	BARITE	38.56	54	24.5	34.4	8.00	6,800.00	18.6	
Viscosity A . A . Y A . A . W A . A . W	32		<u>45</u> <u>25</u>	GEL	11.02	25	7.0	9.8	14.00	3,402.00	9.3	
1,1,				CAUSTIC	4.55	0	2.9	4.1	74.70	4,855.00	13.3	
	<u>11</u> <u>16</u>	<u>13</u> <u>19</u>	<u> 16 </u> 26	SODA ASH	1.32	20	0.8	1.2	13.88	458.14	1.2	
нР-нт	.8	<u>NC</u> 2700	2600	LIME	0.25	0	0.2	0.2	6.75	67.50	0.1	
	900 39.7	53	<u> </u>	CMC - LV	1.75	0	1.1	1.6	45.85	3,209.50	8.8	
Pf Pm	8.0 0.1 0.5	<u>9.5</u> <u>1.3</u> <u>9.4</u>	<u>8.5</u> 0.2 0.6	CMC - HV	0.60	0	0.2	0.5	48.68	1,168.32	3.2	
Ca ⁻ (g l) SO4Ca	40	1000	100	DEXTRID	3.40)5	2.2	3.0	51.60	7,740.00	21.2	
Clna CaCl2				MONPAC	0.05	50	0.0	0.1	106.06	212.12	0.5	
	95			SOLTEX	1.36	52	0.9	1.2	78.50	4,710.00	12.9	
oil/water	5		9	Q.BROXIN	2.90		1.8	2.6	29.50	3,422.00	9.3	
Solids density % Sand				<u>CONDET</u> AL	.20)5m ³	0.3	0.2	258.00	258.00		
т℃	10	55		STEARATE SODA	0.87	75	0.5	0.8	42.61	298.27	0.8	
Depth (ft)		Litholo	gy	BICORBANATE	0.20	00	0.1	0.2	16.98	84.90		
<u>1010-2293</u> 2293-2581					TOTAL 36,686.25 100.1 Total cost of { Interval :							

F3f	Bis 2	2-78		MUD SUMMA	ARY BY IN	TERVAL		WELL	. TARRA 1	
INTERVAL :_		8½" PHA	SE		From	2581M	L	to :	2905M	
Mud type use	d in t	his intervo	al :	SEAWATER	/GEL/POLYM	ER			<u> </u>	
• USEFUL D	ATA	•			1					
Hanger :	Diameter : Initial Hanger : Added Shoe : Jetted Casing Losses				information : U			— (date) <u>M</u> — drilling h — losses	(from: <u>26 M</u> to : <u>2 A</u> in : <u>8 D</u> ours : <u>83.5</u> : <u>-</u> 5.6 BBL/MI	PRIL AYS HRS -
	A D A("	TERISTIC	-5.	متاسبة ومنتار المراجع والمراجع المراجع		• CONSU	MPTIONS	6		
• MUD CH					-	JANTITY		Unit	COST Total	
	/1 00	maxi	average	CHEMICALS	Jotal n. or Y	Kg ft or m drilled	Kg m ³	Price	Cost	5. 7.
	11	<u>1.10</u>	1.11	BARITE	52.629	162.4	184.8	8.00	9,280.00	40.
	<u>3</u> 23	<u>55</u> 27.5	<u>48</u> 25	AQUAGEL	12.113	37.4	42.5	14.00	3,738.00	16.
	7 7	20 21	<u>19</u> 14	CAUSTIC	1.120	3.5	3.9	74.70	1,195.2	5.
<u>s</u> 0.	<u>4</u> 11	<u>8</u> 20	<u>6</u> 15	SODA ASH	0.440	1.3	1.54	13.88	152.68	0.
4P:	5.9	<u> 19.6</u> 	6.5	BICARB	1.000	3.1	3.5	16.98	424.5	1.
a Tressiri				DEXTRID	1.135	3.5	3.9	51.60	2,580.0	11.
P 9	.5 .1	<u> 12 </u> 0.8	<u>10.5</u> 0.4	CMC LV	0.825	2.5	2.9	45.85	1,513.05	6.
Pm <u>0</u>	.6 60	<u>5.2</u> 400	$\frac{2.1}{320}$	CMC HV	0.275	0.8	0.9	48.68	535.48	2.
10400	- 500	25000	 1 <u>7500</u>	MONPAC	0.225	0.7	0.8	106.06	954.54	4
CaCl2 -	-	 		PAC-R	0.200	0.6	0.7	106.06	848.48	3 3
°¢ oil oil 'water				Q.BROXIN	0.050	0.1	0.2	29.50	59.0	0
°o solids Solids -	5	8	5	STARLOSE	0.227	0.7	0.8	48.0	480.0	2
).25	0.75	0.5	SAPP	0.650	2.0	2.3	15.0	390.0	1
Depth (ft)		Lithol	ogy	AC STEARA		0.5	0.7	42.61	639.1	
2600M		SANDSTON	NE	САССТСКАС	RIDE 0.725	_			23,122,3 23,122,	42 1
2800M		SANDSTON	NE	_	í Inter	val :				
2875M		CLAYST/S	SNDST	Total cost of Drilled meter A\$ 71.36						
2905		11	11	Currency Conversion	: n rate used	:				

Imp. 4996 SNEA(P) - RGM 959.004.011

F3g Bis 2-78 DRILL STRING COMPOSITION AND DEVIATION SURVEYS WELL · TARRA 1 DRILLING . . SURVEYS . RUN NUMBER DRILL STRING Weight Flow Drilled depth Inclinction R.P.M. Number Direction Date on bit rate (m or ft) (°) (°) 26" BIT+1x95DC+1x26"STAB+2x95DC+X0VER+3x7 3/4DC+BS+3x 26" 1 00 7 3/4DC+XOVER+HWDP. 60/80 3200 1/5 1 4.3.83 219 175BIT+BS+2x95DC+175STAB+1x95DC+3x7 3/4DC+BS+6x7 3/4DC+ XO+FLEX JT+EO JAR+1 HWDP+HYDRIL SUB+HWDP. 5/10 100 3300 2 175" 17¹/₃BIT+BS+2x9¹/₃DC+17¹/₃STAB+1x9¹/₂DC+X0+3x7 3/4DC+2 BS+6x 60 2⁰ 7 3/4DC+XO+FLEX JT+EQ JARS+1HWDP+HYDRIL SUB+8 HWDP. 3 17%" 5/10 100 3300 2 9.3.83 326 171BIT+BS+2x91DC+171STAB+1x91DC+X0+3x7 3/4DC+B/SUB+3x 7 374DC+B/SUB+3x7 3/4DC+B/SUB+X0+FLEX JT+EQ JARS+1xHWDP +HYDRIL SUB+8HWDP. 1¹2⁰ 3/4⁰ 10.3.83 3 712 175" 4 20 130 3200 4 12.3.83 1010 IDEM ABOVE WITH 1713 STAB MOVED TO 10 MTRS ABOVE BIT FOR CONTROL 5 175" CONTROL HOLE FOR LOGS AND 13 3/8" CSG. TRIP ONLY 3200 BIT+BIT SUB+2x7 3/4DC+12¹/₂STAB+9x7 3/4DC+BUMPER SUB+6x 50 7 3/4DC+XO+FLEX JT+EO JARS+1HWDP+HYDRIL SUB+8 HWDP 3/28 100 1930 6 121/2" BIT+BIT SUB 3 PTS+XOVER+SHOCK SUB+1x7 3/4DC+STAB+2x7 3/4 DC+STAB+8x7 3/4DC+BUMPER SUB+6x7 3/4DC+XO+FLEX JT+1 HWDP + HYDRIL SUB + 8 HWDP. $3^{1}_{4}^{0}$ 5 15.3.83 1334 7 121/2" 20 2100 110 16.3.83 6 2066 BIT+BIT_SUB+NB_REAMER 3 PTS+XOVER+SHOCK_SUB+1x7 3/4DC+ STAB+2x7 3/4DC+STAB+8x7 3/4DC+2BUMPER_SUBS+6x7 3/4DC+ XO+FLEX_JT+1HWDP+HYDRIL_SUB+8_HWDP. 19.3.8320.3.83 25.3.83 2265 3/40 3/40 3/40 2 89 8 121/2" 22 115 1900 2580 BIT+BIT SUB+1x6¹/₂DC+STAB+1x6¹/₂DC+STAB+13x6¹/₂DC+BUMPER SUB+ 6x6¹/₅DC+FLEX JT+1 HWDP+HYDRIL SUB+8 HWDP. 5/12 30/50 1000 81/1 9 BIT+JUNK SUB+BIT SUB+1x6¹/₂DC+STAB+1x6¹/₂DC+13x6¹/₃DC+BUMPER 1 3/4⁰ SUB+6x6¹/₅DC+FLEX JT+EO JARS+1xHWDP+HYDRIL SUB+8HWDP. 10 30.3.83 16 50 1000 2797 10 81," CORING BHA+CH+CORE BBL+5x63DC+2BUMPER SUBS+16x63DC+FLEX JT+E0 JARS+1 HWDP+HYDRIL SUB+8 HWDP. 8 81/1 90 850 11 .

	F 3g' i	Bis 2-78			WEL	L BORE CO	WELL :						
		• MEASUREN	AENTS •			• RESULTS •							
N°	Y I Type I	Inclination Geographic		DEPTHS		RELATIVE COORDINATES			GEOGRAPHIC	Dog • Leg			
	i y pe	depth	(°)	azimuth	Measured and corrected	Vertical	N ₈ S .	E.W.	Departure	X	Y	· Severity	
								······································					
			-							· · · · · · · · · · · · · · · · · · · ·		-	
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F3 h Bis 2-78

COMPLETION STATUS

WELL: TARRA 1

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

yes 🔲

X no

2) - CASINGS, TUBINGS AND ANNULUS STATUS

CASING AND TUBING	SHOE	HANGER	CASING CUT	CEMEN	CEMENT TOPS ANNU		US FLUIDS		
DIAMETER	DEPTH	DEPTH	DEPTH (event)	ØØ	ID	NATURE	SG		
20"	211m	91m	110m	SEABED		СМТ			
13 3/8"	1002m	93.34m	170m	500 m		SEA WATER GEL	1.08		
9 5/8"	2567m	92.34m	230m	2070 m		SEA WATER GEL – POLYMER	1.15		
		4.		,			\		

Depths of perforations : ۰. <u>م</u>ينز،

Tubing ancroring device and $\mathsf{pocke}_{z} \overset{\mathsf{w}}{\underset{\mathsf{repth}}} \mathsf{epth}(s)$:

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

5

		_	_	_					_		 	 	_		 	
	ΓΡΕυς (CP) ΓΡΈυς (aP)	_CP		<u>CP</u>		CP					 	 			 <u> </u>	
FRO	M (mor)	260	00	260)	200)									
то	(m or ft)	252	20	200)	120)									
TE	ESTED	K] yes		U yes	No.	X yes		U yes		U yes	U yes	U yes		U yes	U yes	
BY	PRESSURE OR WEIGHT	<u>100</u> PS1				<u>100</u> PS1					 	 			 	

:____

4) - WELL HEAD

Imp. 4996 SNEA(P) RGM 959.004.011

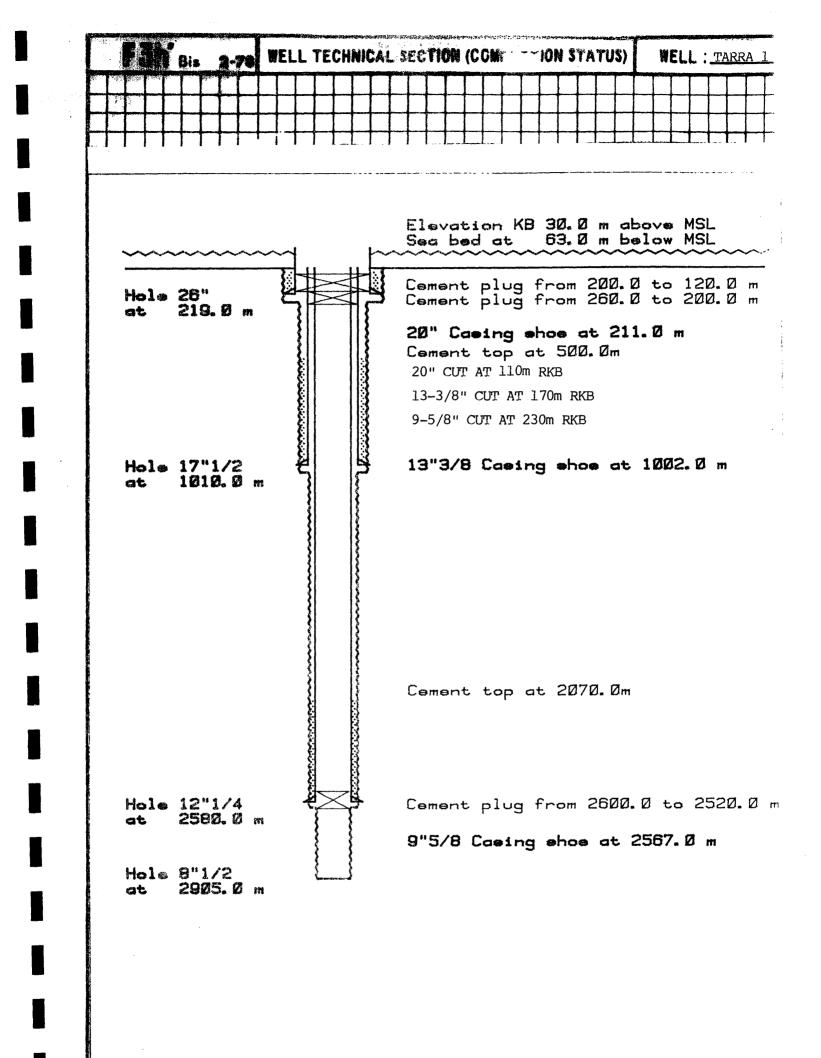
Description of abandonned equipment

ALL EQUIPMENT REMOVED FROM SEABED

RELOCALIZATION DEVICE

yes	
no	

TYPE : X



tan francessan (

				ROCK BI	TS AND CO	DRE BITS	, , ,			
BIT	······································	CON	E BITS		D	IAMOND B			BITS	Total by
DIAMETER	Tooth tricone bits	Insert tricone bits	Removable center	Bicone bits	Drilling bits	Core bits	Removable center	Drag bits	Special bits	intervo
26"	10									1
17½"	2			·						2
12¼"	5	2								7
8½"	1	2				2				5
L	<u></u>	I	- I		·		4	то	TAL	_15
·····			C	CASINGS						
Diamete	er	Weight (Ibs/Ft)		Thread	Gr	ade	Length (Ft or r	11	Observa	tions
20"		133	"CC' CAME	' CONNECT ERON	OR X5	6	120m		······································	
13 3/8		68	BUTT	RESS	К5	5	909m		SHOE AT 1	002M
9 5/8"		47	BUTT	RESS	N8	0	2484m		SHOE AT 2	567M
				• • • • • • • • • • • • • • • • • • •		•				CAR ¹
				······		<u> </u>				
						<u></u>				
<u>,,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,,</u>										
				· · · · · · · · · · · · · · · · · · ·		#			<u> </u>	
						•				

Bis 2-78 MAIN CONSUMPTIONS OF THE WELL

WELL: TARRA 1

	• CEMENTS •											
Class		QUANTITY (T)	·	Class	QUANTITY (T)							
Class	Casing	Well abandon	Plugging losses	Ç1035	Casing	Well abandon	Plugging 1					
G	135T	13T	46T									

	CHEM		
CHEMICAL NAME	QUANTITIES ADDED m ³ or T	CHEMICAL NAME	QUANTITIES AD m ³ or T
GEL	61.25T	CALCIUM CHLORIDE	2.08T
CAUSTIC	6.58T	CMC LV CMC HV	2.58T 0.88T
SODA ASH	2.64T	STARLOSE PAC-R	0.227T 0.200T
LIME	2.73T	DEXTRID	4.54T
BARITE	154.94T	MON PAC	0.275T
KWIK SEAL	3.64T	SOLTEX	1.36T
MICA	0.95T	Q.BROXIN	2.95T
CONDET	0.205M ³	AL STEARATE	1.06T
*15.2T USED TO PLUG LOSSE 33.57T DUMPED PRIOR RIG ABOVE	ES MO Y E	BICARBONATE SAPP	1.20T 0.650T
ABOVE		ANSFER LOSSES	

	WATER - DIESEL/OIL (not added in mud)													
FRESH WATER (m ³)														
DIESEL-OIL (m ³)	300T	-FOR THE RIG ONLY CONSUMPTION OF THE 3 BOATS EXCLUDED												

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

- 1 x HOUSING 18 3/4" x 10,000 PSI CIW WITH PILE JOINT 18" x 24" x 30 FT LONG.

- 18 3/4" NOMINAL SEAT PROTECTOR CIW.

- 13 3/8" x 18 3/4" CASING HANGER + 13 3/8" x 18 3/4" SEAL ASSY. + 13 3/8" WEAR BUSHI

- 9 5/8"x18 3/4"CASING HANGER+1x9 5/8"x18 3/4"SEAL ASSY.+9 5/8"x8½" WEAR BUSHING CIW.

- 2 AX RING CIW

- 1 x TEMPORARY GUIDE BASE CIW (MODIFIED)

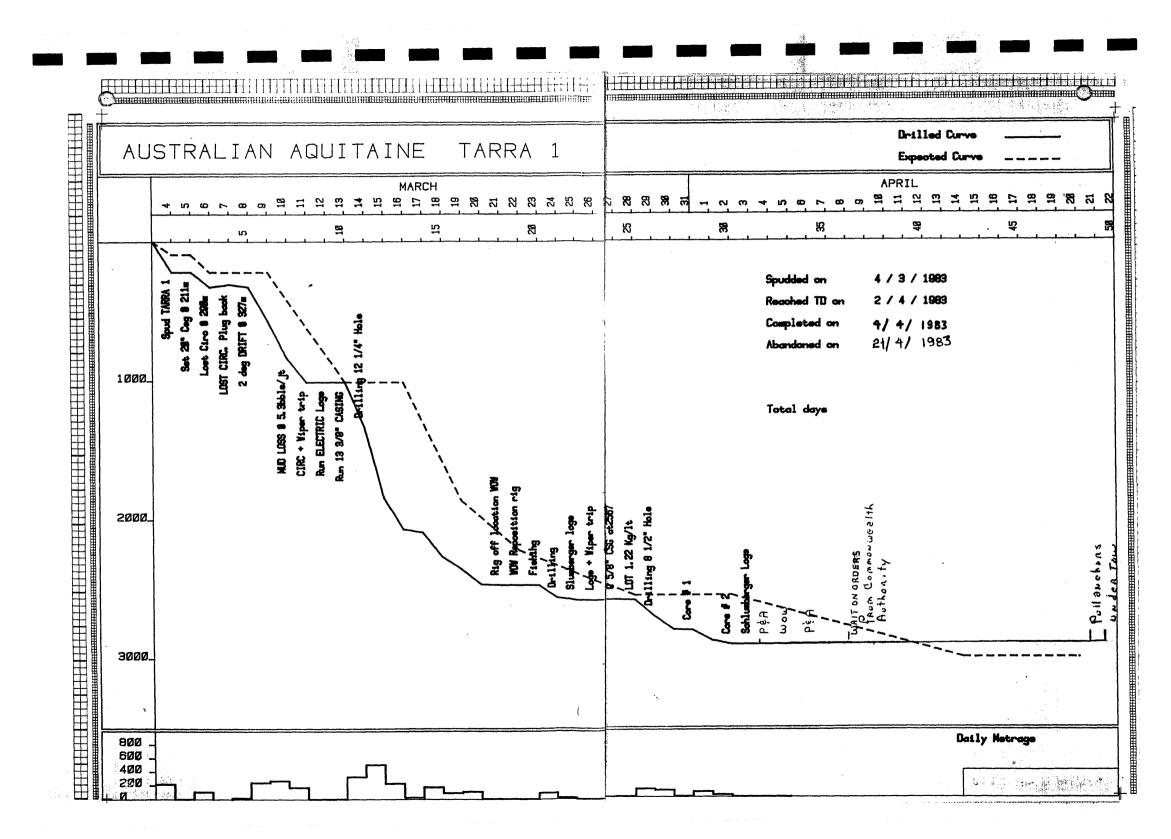
- 1 x PERMANENT GUIDE BASE CIW (MODIFIED)

Core - Bits A\$ 11,839 Mud chemicals A\$ 100,883 Cements A\$ 60,609 Water A\$ 4,639 Water A\$ 1,010	_ Casing and miscellaneous <u>A\$ 490,78</u> _ Wellhead and miscellaneous <u>A\$ 86,16</u> - Bottom hole equipment <u>A\$ 2,74</u> - Surface equipment <u>A\$ 3,75</u> - Offshore or anchoring equipment <u>A\$ 1,77</u> - Anti-pollution products <u>A\$</u> -
Drilling bits A\$ 62,787 Core - Bits A\$ 11,839 Mud chemicals A\$ 100,883 Cements A\$ 60,609 Water A\$ 4,639 TOTAL A\$ 1,010	_ Wellhead and miscellaneous <u>A\$ 86,16</u> - Bottom hole equipment <u>A\$ 2,74</u> - Surface equipment <u>A\$ 3,75</u> - Offshore or anchoring equipment <u>A\$ 1,77</u> - Anti-pollution products <u>A\$</u>
Core - Bits	- Bottom hole equipmentA\$ 2,74 - Surface equipmentA\$ 3,75 - Offshore or anchoring equipment A\$ 1,77 - Anti-pollution productsA\$
Mud chemicals A\$ 100,883 Cements A\$ 60,609 Water A\$ 4,639 TOTAL :	- Surface equipment <u>A\$ 3,75</u> - Offshore or anchoring equipment <u>A\$ 1,77</u> - Anti-pollution products <u>A\$</u>
A\$ 60,609 Water A\$ 4,639 TOTAL A\$ 1,010	- Offshore or anchoring equipment A\$ 1,77 - Anti-pollution products A\$
Water <u>A\$ 4,639</u> TOTAL : <u>A\$ 1,010</u>	- Anti-pollution products A\$
Water <u>A\$ 4,639</u> TOTAL : <u>A\$ 1,010</u>	- Anti-pollution products A\$
	,622
	,622
ENTAL AND SERVICES (Item 6)	
Electrical loggingA\$ 497,282	Mud logging <u>A\$59,043</u>
Cementing and pumping	- Mud services A\$ 13,958
Fishing A\$ 18,736	- Directional survey
Turbodrill A\$	- Tong service
	_ Air drilling A\$
Subsea operations (diving)A\$ 143,941	_ Other servicesA\$
Welding A\$	- Bottom hole equipment rental A\$ 28,724
	_ Surface equipment rentalA\$
Velocity survey A\$ 12,600	- Wellhead equipment rental A\$ 193
	_ Anti-pollution equipment rental _A\$
PositioningA\$48,073	-
TOTAL:A\$ 956,612	

	5j Bis 2-78	COS	TS BREAKDOWN		WELL: TARRA 1
	OPERAT	TIONS	BEFORE DRILLING	DRILLING	AFTER DRILLI
1	Operation preparat	ion	25,000		·
II	Access and drillin sea bottom surveys		29,046	9,601	
III .	Rig mobilization a EX SINGAPORE/MOV COAST - APPROTIC	n d moving in COSTS /ING DOWN AUSTRALIA DNED.	64,450	1,047,754	
		SUB TOTAL	118,496	1,057,355	
IV	Drilling Contractor			3,434,629	
v	Consumables			1,010,622	
VI	Rental and service	S		928,156	
VII	Operator supervisio	on		192,352	
VIII	Transportation (air	- land - sea)		1,194,434	
IX	Insurances				
x	Operating bases			123,556	
		SUB TOTAL		6,883,749	
XI	Rig demobilization	and moving out			
XII	Finalization of ope	rations			
	TOTAL		▲ 118,496	в 7,941,104	
TOTA	L COST OF WELL:	A + B + C		8,059,600	-
		orfeet): <u>2,812</u> <u>B</u> <u>2,824</u>		(INC tion (d): <u>38</u> MOV <u>3</u> : <u>212,0</u>	
		LIAN \$			

MON TH:	MARC	CH	WEL	L:	TARRA	1					
YEAR		D	AILY MOR	NING OB	ERVATIO	NS		U	NIT MOTH	DNS	1 2
19 <u>83</u>	Wi	nd		Waves		Cı	vrrent	Roll	Pitch	Heave	Perature •
DATE	Speed	Direction	Height (Ft or m)	Period (sec.)	Direction	Speed (Knt)	Direction	(*)	(•)	(Ft or m)	
1	20	ESE	. 1	3	SE			0.5	0.5		17
2	30	ENE	2	3	E			0.5	0.6		20
3	25	ESE	1.5	· 2	SE			0.6	0.6		21
4	20	E	3	6	E			0.4	0.4	0.5	24
5	2	SW						0.1	0.1	0.2	20
6	17	NNE	1.5	6	NE			0.3	0.3	0.3	23
7	2	ESE						0.1	0.1	0.1	24
8	25	NNE	1.5	5	NNE			0.3	0.3	0.3	23
9	60	WSW	7	7	WSW			1.0	2.0	0.8	20.5
10	40	ENE	5	7	E			0.6	1.0	1.0	19
11	25	NE	5	6	E			0.6	1.0	1.0	21.5
12	20	SW	2	5	SW			0.3	0.3	0.8	22.5
13	30	WSW	3	8	SW			0.4	0.4	1.0	21
14	15	W	2.5	7	SW			0.4	0.4	0.8	18
15	15	E	1.5	6	SW			0.2	0.2	0.3	16
16	30	Е	3.5	6	E			0.3	0.5	0.3	19
17	25	E	3	6	E			0.3	0.5	0.4	19.5
18	20	SW						0.1	0.1	0.2	20
19	5	ESE						0.2	0.2	0.2	19
20	25	Е	4	5	Е			0.4	1.2	0.6	19
21	35	E	9	5	E			1.0	1.5	1.0	19
22	40	E	14	6	E			1.5	2.0	2.0	21
23	45	W	6	7	SW			0.8	1.0	1.2	21
24	35	SW	6	5	SW			0.9	1.2	1.0	16.5
25	25	WSW	2	5	SW			0.6	0.4	0.5	16.5
26	35	WSW	5	6	SW			0.8	0.6	0.7	¥7
27	30	WSW	4	6	SW			0.6	0.7	0.6	17
28	30	WSW	4	6	SW		 	0.5	0.4	0.5	17.5
29	15	WSW	3	6	SW			0.3	0.3	0.4	18
30	25	SW	3	6	SW			0.3	0.3	0.4	19
31	18	SW	3	4	SW			0.3	0.4	0.5	18

F3	5 K Bis	2-78		MONTH	LY MET	EOROL	OGICAL	SHEET		WEL	L: <u>TARR</u>	A 1
MON TH:	APRI		WELL	.:	TARRA 1			-				
YEAR		DA	ILY MORI	NING OBS	ERVATIO	NS		U	NIT MOTH	DNS	2 5	¥~
19	Wir		Height	Waves Period		H	rrent	Roll	Pitch	Heave	emperature °C	Visibility (miles)
DATE	Speed	Direction	(Ft or m)	(sec.)	Direction	Speed (Knt)	Direction	(*)	(*)	(Ft or m)		>
1	20	SW	2.5	7	SW	ļ		0.2	0.3	0.4	16	
2	20	SW	3	6	SW			0.3	0.3	0.5	16	
3	10	ENE	2	VAR	VAR			0.2	0.3	0.4	18	
4	35	WNW	6	7	SW			0.3	0.6	0.5	18	
5	60	WNW	8	7	W			1.0	1.8	1.0	15	
6	50	W	8	5	W			1.0	1.8	1.0	14	
7	6	W	2	5	SW			0.2	0.2	NIL	15.5	
8	20	NE	3.5	7	E			0.2	0.4		17	
9	25	ENE	3.5	8	E			0.2	0.5		19.5	
10	35	NE	3.5	VARI	ABLE			0.2	0.3	0.3	20.5	
11	30	WSW	4.5	8	WSW			0.4	0.8		20.5	
12	22	WSW	4.5	6	WSW			0.8	0.8		16	
13	22	W	3	6	SW			0.4	0.5		16.5	
14	35	W	3.5	8	SW			1.0	0.8		16.5	
15	25	SSE	3.5	7	SE			1.0	0.8		16	
16	25	SSE	4	7	SE			1.0	0.6		15	
17	20	SSE	4.5	6	SE			1.0	0.8		15	
18	18	SSE	4.5	6	SE			0.9	0.9		16	
19	19	SSE	4.5	6	SE			0.9	0.9		16	
20	15	SW	1	VARIA				0.9	0.9		15	
20	14	SW	1	VARIA				0.4				
22		JW	-'	VARIA				0.3	0.3		18	
23												•
24						· · · · ·						
24				-								-
26												<u></u>
27 28								-				
20												
30												
31										1		



			CASING	AND C	CEMEN	TING	REPO	DRT				F	5a Bis
	WELL ountry) ((RIG Contractor)	K Meight	und 🔲 L. 🕅	∮ ^{Casi} Line	ing 🔀 er 🗌		CASIN	G SHOE		•	er depth liners)	OPERATI DATE
	RRA 1	OCEAN DIGGER ODECO			20		Verti	sured depth	2	<u>11m</u> <u>11m</u>	casin	nging Ø g depth : M	5.3.83
LL CONDITION	Open hole di Important car Losses durin Reamer runs Previous cas Bo, Ps on wo	ng drilling (number) sing : Diar ell when re	l (levels, ex 1 neter NO unning in (1	NE Fype - e	quipmen	t, test (RecShc Shc	amerat _	VE SU	D SPOTT 9	ING SG	HI VIS	_m from the
- WEI	MUD CHARAC	JECTING	S.G.	W.L.	P.V	• •	r.¥.	600	300				
	SLUR	R T	1.03								1		İ
	ELEMENT	MFG,	ø		t (lb/ft)	Threa	d or	Grade	Specia			Lengtl	1
1 O F	SHOE	type FLOAT	20"``		ckness	joint t	уре		corrosio			(m)	of joi
OSITION OF ING	COLLAR	TRISTA FLOAT	E 20"	SHOE 133 I		"CC"		X56	NO	177.	.8	12.80	
COMPOS	CASING	N.K.K.		133	LB	: 'CC'		X56	NO	177	.8	95.24	8
CASING	PILE JT Tripping joint		24"x20" DP + BUMF	PER SU	В	"CC			NO			12.24 91.00	
2 - GENI	Drift diameter Maximum perm	in the thic	kestjoint _			•	•			TOTAL	→ [211.27	<u>10</u>
	Theoretical wa	RS			RATCHE			In air		OTHER EQ	UIPM	and the second division of the second divisio	32T
STRING	MGF: TYPE: NUMBER: DEPTH/RKB				F: PE: MBER:_ PTH/RI				······	Description	n • Lo	cation)	
CASING.S			······································							·			······
OF						· · · · · · · · · · · · · · · · · · ·		······				······································	
EQUIPMENT													
ш						•							
	1			1					1				

4 - RUNNING CASING	Making-up of j Grease type u Average torque Filling frequen Intermediate c Total running Troubles durin Bottom hole ci Reciprocating M.D. indicatio Observations a	sed for the to make ncy irculation time (with ng runnin irculation : ns after CSG	hreads : e-up the join n (duration - th circulatio gNEC n : Duration Duration stop of botto FREE_AFT	on depth)W/ depth)W/ CESSARY_1 30M 50m hole cir ER_180M	(L /A ASH DI (O WA) culatio , REG	OWN CSG 5 OQave SH DOWN C Rate148 Rate AN SLOPE	HR 12 Frage rate SG FROM 0 LTS/M INDICAT	5m TO 1 <u>N/A</u> 125M TO IN OR 3/4	80m 0 180M Pressure – Amplitude DEG WHEI	oints/h_ 500) PSI	
	Service cy Mixing pump Slurry injection y Displacement pu Nature or class of cements) <u>OW_SCH</u> pump DOW mp(s)_D	LUM 2"x3'	'x11" CEN	\T. 1"_TR 3/4"	I En I En IRI. Pr Water i	d of slurry d of displa	making at cement at ased in ca es used	sing at	30 30	730 305 345 347 Tonnage	
CEMENTING	1 "G" 2 3	565		THIXOTRO	OPIC	RATED GEL A + B COM 128 LBS	PONENTS	ACL2			24 8.54	T T T
OR FIRST STAGE		ERISTICS	0F . 1 2 3	s.G. 1.52 1.68	P.V.		600	VISCOS 300		ADINGS V	S R.P.M.	
SINGLE STAGE	SPA(Slurry injectio	CER PLUGS	2	LTS/MIN			Displace	ement rate	79	5 LTS/I	MIN	
5 - 5	Displacement f Pressure at the Estimated loss Casing string p Residual press	e beginni es pressurin	ng of displa ? RETL g up at	cement JRNS_OBSI	250 ERVED	_at the end WITH SUB _ Result	265 SEA TV		at the su	rge	265	
- SETTING ON SPOOL	M.D. indication M.D. indication Casing string s Spool : MFG _ Suspension and	n at the e n after ce set on sp i seal typ	end of displa ement betting ool	g	h Non	a, after the e ninal dimens	settin and of disp ions	g tension placement	on spool	 ▶		Ţ.
6 - S	Additional sea Distance betwe Cut casing	en the u	pper part öf	the spool o	and R.I above (the spool	18 3/4	"WELL	HEAD AT	91M		
- CONTROL	Temperature we Cementing log Result of these	t.					EMENT A	Top cen T SEA B	ent annul ED	us →[SEABE	Dr
7 - CO	Test casing st Packer depth : Test result :									C		

			'	-

93M			ance above the the mud-line in		20"	Casing diameter	<u> </u>	TRA NO	Well site
Cumula Iength	Unit length	Threads	Thickness and grade	Equipment joint number	Cumulated length	Unit length	Threads	hickness and grade	Equipment
					91.00	91.0	ELLHEAD	18 3/4 W	КВ ТО ТОР
					103.80	12.80		E F C JOI	
					115.71	11.91		LB/FT X5	
					127.62	11.91	11	н	3 "
					139.52	11.90	11	11	4 "
				I	151.41	11.89	11	11	5 "
					163.32	11.91	11	п	6 "
				ļ	175.21	11.89	11	11	7 "
				 	187.12	11.91	11	11	8 "
				ļļ.	198.76	11.64	11	u	9 "
					211.00	12.24		LE JOINT	<u>10 P</u>
							1		
				 			· · · · · · · · · · · · · · · · · · ·		
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	CASING AND CEMENTING REPORT F5a Bis WELL (contractor) R Ground (contractor) Cosing X Casing X CASING SHOE Hanger depth (for liners) OPERATION DATE NRRA 1 OCEAN DIGGER 93 13 3/8 Measured depth : 1002 or changing Ø casing depth : 1002 or changing Ø 12.3.83 NRRA 1 ODECO 93 13 3/8 Measured depth : 1002 or changing Ø casing depth : 12.3.83 Open hole diameter : 17½" Depth (Vertical :													
			IK Meight		Ψ			CASIN	IG SHOE				.n -	
		DIGGER	93		<u>13</u>	/8	1			02			' I	2.3.83
	Open hole Important	e diameter : caving (locat]7½" ion - avera	ige diar	Depth neter):	Vertica Measur	L I: æd:		D	eviation	Mini Maxi	: <u>314 。</u> 2 。	to	1010 r 326 r
	Losses d	uring drilling	(levels, ex	ktent)_	TOTAL LOSSES	LOSSES		W /HRI.				D WITH	PART	IAL
CONDITION	Previous	casing : Diam		20"			Re Sho	amerat pe at						from the bi
ELL		ACTERISTICS	S.G.	W.L.	P.V	/. `	.v.		·	IMETER	READ	DINGS V	R.P.M.	, ,
1 - W		E INJECTING .URRY	1.14	NC	6		27	600	300					
	Observatior 	ns			<u>.</u>								·	
	ELEMEN	T MFG, type	ø		ht (lb/ft) ickness	Thread		Grade	Specia corrosio	n > volu	side ume /m	ł	ngth m)	Number of joints
SITION OF IG	SHOE	FLOAT	13 3/8	68 LI	BS/FT	BUTT		K55		78.		0.	•	X
OSITI	COLLAR		13 3/8	68 LI		BUTT		K55		78.	-		.60	×
AL COMPOS	CASINO	1 1 1	13 3/8 13 3/8	68 LI TORQI	3S/FT JE SET	BUTT		K55		78.	08	906 0	.32 .70	76
GENERAL CASIN		int : HWDP	5"		BS/FT	4½ I	1			4.			20	× 76
2 -	Maximum p	ter in the thick emissible tens I weight of the	ion `					In air			·L ≻ i	908.3	<u>32 m</u>	76
		IZERS			CRATCHE GF : (PE :	RS				DTHER E				
CASING STRING	NUMBER: DEPTH/R	5		NI	JMBER :_ EPTH/RI				T	IW 13 ORQUE OP 13	SET	SYSTE	1 SCRE	
		970 935 208							(TOP SE	AL A	ISSY 9:	3.34M)	
EQUIPMENT OF								•						·
3 - EQUIP												<u></u>	*	
~~														·
								•						

:	Making-up of			HERFORD							· <u>·····················</u>	
	Grease type u Average torqu	sed for '	threads : 			SEAL THR						
	Eilling freque	nev		EVI	EKY 5 JU	DINTS	11(1/11(
	Intermediate c	irculatio	on (duration -	depth)	NONE							
	Total running Troubles durin	time (wi	ith circulatio	ons)	<u>8</u> h			9.5		joints/h_		
	Bottom hole c Reciprocating M.D. indicatio	:	Duration.	NONE		te			Pressure Amplitude	400) PSI	
	Observations	:										·
	Service cy	DOWELL	SCHLUMBE	RGER		Bec	inning of	slurry mok	ina at	7H21	(13.3	.83)
	Mixing pump	DOWE	LL SCHLUM	BERGER		End	-	making at	-	8H2C		
	Slurry injection Displacement pu		DOWELL SC RIG PUMP	HLUMBERG	ier		•	cement at ased in ca				
	Nature or class	Sacks or	Cement weight			Water a	nd additive	es used	sing ar _		TONNAGE	S 115
	of cements	bulk	increase %				ire : quanti					
+	¹ "G"	B	CALIPER	T			<u>115 + F</u>	RESH WA	VIER		21_1	
ł	<u> </u>	B	FRESH WA	IER WIIF	IOUT ADL	DITIVES		<u> </u>			2/_	ONS
-	з 				 					<u> </u>		
	CARACT	ERISTICS	0F	S.G.	P.V.	Y.V .	600	VISCOS 300	IMETER R	EADINGS VS	R.P.M.	T
	0,,,,,,0	211101100	.1	1.42							+	+
	SL	URRIES	2	1.90								
$\left \right $			3	\searrow	\searrow	\searrow	\searrow	\sim	\searrow	\rightarrow	\sim	\leftarrow
ŀ	SDV	CER PLUG	1									É
			³ 2 1) 1777	LIT/MIN			י י ס]	0.0	0 ĹIT/MI		1
	Slurry injectio	on rate	2) 1320	LIT/MIN	l		UISPIQCe	ment rate			<u>н</u>	
$\left \right $	Displacement f	luid nat	ure MU	D .			Pumped	volume	69	.5M ³		
	Pressure at the											
	Estimated loss	es	9.5M ³						_	-		
	Casing string p Residual press	pressurin ure (eve	ng up at entual) after l	2000 PS1 bleeding o	I ff	Result	UK (HE	LU 15 M	11N)			
$\frac{1}{1}$	M.D. indication	at the	end of displa	Cement								
	M.D. indication	n after c	ement betting	g			setting	g tension	on spool			
	Casing string s Spool : MFG _											
	Suspension and									•		
1	Additional sea	l (type -	dimensions)									
	Distance betwee Cut casing											
Í	Temperature w	ell loggi	ng after		h. 1	setting						
	Cementing log Result of these	after			h. 1	setting		Top cen	ent annu	lus >	500	
	Test casing st	rino + B	O.P.(blinda	nd nine ran	ns) Tes	tpressure			- <u></u>	Г	2000	
	Packer depth :											
	Test result :			- 10 - 110 - 10 - 10 - 10 - 10 - 10 - 1								

Well sit	e TARRA	1	Casing diameter	13 3/8	RKB dis or above	tance above the the mud-line in	e ground n off-shore		Bis 2 - 93M
Equipment joint number	Thickness and grade	Threads	Unit length	Cumulated length	Equipment joint number	Thickness and grade	Threads	Unit length	Cumulate length
DISTANC	E ROTARY TAE	LE TO			39			11.83	559.62
TOP 18	3/4 HOUSING		92.36	93.36	40			11.82	571.44
DISTANC	TOP HOUSIN	IG TO			41			11.88	583.32
TOP HAN	<u>SER</u>		1.32	93.68	42			11.74	595.06
HANGER	CIW		0.70	94.38	43			11.92	606.98
1	68LBS-K55-E	UTT	12.00	106.38	44			11.75	618.73
2			12.01	118.39	45			11.55	630.28
_3			12.07	130.46	46			11.96	642.24
4			11.84	142.30	47			11.88	654.12
5			11.90	154.20	48			11.99	666.11
6			12.03	166.23	49			12.00	678.11
7			11.88	178.11	50			12.06	690.17
8			11.93	190.04	51			11.91	702.08
9		1	12.03	202.07	52			12.07	714.15
*10		1	12.05	214.12	53			12.07	726.22
11			12.05	226.17	54		.	12.00	738.22
12			11.80	237.97	55		1	12.07	750.29
13			12,07	250.04	56			11.79	762.08
14			11.93	261.97	57			12.04	774.12
15			11.98	273.95	58			11.99	786.11
16		•	12.07	286.02	59		1.	12.07	798.18
17			11.66	297.68	60			12.07	810.25
18			12.05	309.73	61			11.96	822.21
19		· ·	11.94	321.67	62			11.90	834.11
20			11.93	333.60	63			11.76	845.87
21			11.85	345.45	64			11.94	857.81
22			12.05	357.50	65			12.07	869.88
23			11-83	369.33	66			12.01	881.89
24	-		12.06	381.39	67			12.08	893.97
25 -			11,97	393.36	68			12.08	906.05
26			12.02	405.38	69	<i>h</i> .		11.91	917.96
27			12.06	417.44	• 70	•		11.66	929.62
28			11.82	429.26	*71			11.65	941.27
29 ·			11.47	440.73	72			11.78	953.05
30			12.07	452.80	73			12.07	965.12
31			11.65	464.45	*74			12.03	977.15
32			11.97	476.42	FLOAT			0.60	977.75
33			11.99	488.41	*75			11.90	989.65
34		· · ·	11.74	500.15	*76			11.65	1001.30
35			11.70	511.85	SHOE			0.70	1002.00
36			11.92	523.77					
37			12.05	535.82					
38			11.97	547.79					

IMPORTANT: the detailed composition of the casing string should be given from top to bottom. For the upper joint the length under RKB will only be considered. So each cumulated length will be the RKB true measured depth of each corresponding joint.

- B.

4993 SNE

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	VELL	RIG	R Grou				KEPU	CASING			Hanger de			RATIO
	ountry) ((Contractor)	K Height B M.	L. 🛛	Ψ Line				SHUE		(for liner			ATE
		CEAN		20	9 5/	8	Measu	red depth	2567		or changin	· /		
		IGGER ODECO >	94.	30			Vertic	al depth :			casing dep	,	27.3	.83
AUS			<u> </u>			Vertical				(M	ini : <u>1</u> 4	I	to 13	34
	Open hole di Important ca	ving (locat	ion - avera	ge diam	eter): `	Measure		2580M	Dev		axi : <u>31</u>		to 20	56
	Losses durir	ng drilling	(levels, ex	(tent)	YUNE					/07M				
_	Reamer runs	(number)							1002M				m from	n the
01	Previous cas Bo, Ps on w	sing : Diam	eter <u>13</u>	<u>> 3/0</u> Type - 6	auipmen	t. test p	Sho pressu			4 SERIA	L 10,00	00		
CONDITION	Bo. P's on w WELL	HEAD HOU	ISING CAN	<u>1ERON</u>	- TORQI	JE SET	SYS	TÉM					. <u> </u>	
			7 1						VISCOSI	METER R		Vs.R.	P.M.	
/ELL	MUD CHARAC BEFORE IN		s.g.	W.L.	P.V.	, Y	.v.	600	300		T	1		
× -	SLUR		1.16	<u>ог</u>	E		6							
•			1.16	25	5			i					İ	
	Observations						· ···· ····							
	ELEMENT	MFG, type	ø		nt (lb/ft) ckness	Thread joint t		Grade	Special corrosior		ne	Lenigth (m)		Numb of join
10 10		FLOAT	9 5/8	47 1	BS/FT	BUT		N80		38.1		.60		×
NO	SHOE	FLOAT		17	DC /ET	BUT	_	N80		38.1	9 0	.50		
COMPOSITION	COLLAR	FLOAT	9 5/8	47	LBS/FT	001		100						
STRI	CASING	RII	9 5/8		LBS/FT	BUT		N80		38.1	1 - • • •	2.30		210
	HANGER	CIW	9 5/8		QUE SE	BUT			+			.70		
GENERAL CASING				501		A1.0 P	-							
z	Tripping joint	HWDP	5"	50L	BS/FT	4½"Î	<u>г</u>		ł	4.6) 		-	<u>×</u>
ш	1											78 76	<u>)</u> m. _	210
•	Drift diameter	r in the thic			16.5mm 23 10	DAN			. <u></u>	TOTAL	> 2,4	/4.10		.8T
	Maximum per	r in the thic nissible tens	sion	5	23 10			In air	177				150	
•	Maximum per Theoretical w	r in the thick nissible tens reight of the	sion	5 ng :	23 10-			In air			i	l:	150	
•	Maximum perm Theoretical w <u>CENTRALIZ</u>	r in the thic nissible tensive ight of the ERS	sion	5 ng : SC	23 10	RS			o		in mud	l:	150	
- Ci	Maximum perm Theoretical w CENTRALIZ MGF :	r in the thick nissible tensive ight of the ERS ATHERFOR	casing stri	5 ng: SC M(I	:RATCHE GF: (PE:	<u>RS</u>			0	T THER EQ Description	in mud UIPMENT n = Locatio	l:		
- Ci	Maximum perm Theoretical w CENTRALIZ MGF : TYPE : NUMBER :	r in the thick nissible tens reight of the ERS ATHERFOR 11	sion casing stri RD ST III	5 ng : MC I NL	23 10 RATCHE GF: (PE: JMBER:	<u>RS</u>				T THER EQ Description	in mud UIPMENT n = Locatio /8 SEAL	I:	EMBLY	
STRING	Maximum perm Theoretical w CENTRALIZ MGF :	r in the thick nissible tens reight of the ERS ATHERFOR 11	sion casing stri RD ST III	5 ng : MC I NL	:RATCHE GF: (PE:	<u>RS</u>				T THER EQ Description	in mud UIPMENT n • Location /8 SEAL QUE SYS	n) ASSI	EMBL Y SCREW	
STRING	Maximum pem Theoretical w CENTRALIZ MGF : TYPE : WE NUMBER : DEPTH/RKE 951 975	r in the thick nissible tens reight of the ERS ATHERFOR 11	sion casing stri RD ST III	5 ng : MC I NL	23 10 RATCHE GF: (PE: JMBER:	<u>RS</u>				T THER EQ Description IW 9 5/ OW TORC	UIPMENT - Location /8 SEAL QUE SYS 	n) ASSI TEM S ANGEI	EMBLY SCREW R.	
STRING	Maximum pem Theoretical w CENTRALIZ MGF : TYPE : NUMBER : DEPTH/RKE 951 975 998	r in the thick nissible tens reight of the ERS ATHERFOR 11	sion casing stri RD ST III	5 ng : MC I NL	23 10 RATCHE GF: (PE: JMBER:	<u>RS</u>				T THER EQ Description IW 9 5/ OW TORC	UIPMENT - Location /8 SEAL QUE SYS 	n) ASSI TEM S ANGEI	EMBLY SCREW R.	
CASING.STRING	Maximum pem Theoretical w CENTRALIZ MGF : TYPE : WE NUMBER : DEPTH/RKE 951 975 998 2435	r in the thick nissible tens reight of the ERS ATHERFOR 11	sion casing stri RD ST III	5 ng : MC I NL	23 10 RATCHE GF: (PE: JMBER:	<u>RS</u>				T THER EQ Description IW 9 5/ OW TORC	UIPMENT - Location /8 SEAL QUE SYS 	n) ASSI TEM S ANGEI	EMBLY SCREW R.	
OF CASING STRING	Maximum pem Theoretical w CENTRALIZ MGF : TYPE : NUMBER : DEPTH/RKE 951 975 998	r in the thick nissible tens reight of the ERS ATHERFOR 11	sion casing stri RD ST III	5 ng : MC I NL	23 10 RATCHE GF: (PE: JMBER:	<u>RS</u>				T THER EQ Description IW 9 5/ OW TORC	UIPMENT - Location /8 SEAL QUE SYS 	n) ASSI TEM S ANGEI	EMBLY SCREW R.	
OF CASING STRING	Maximum pem Theoretical w CENTRALIZ MGF : TYPE : DEPTH/RKE 951 975 998 2435 2459 2494 2506	r in the thick nissible tens reight of the ERS ATHERFOR 11	sion casing stri RD ST III	5 ng : MC I NL	23 10 RATCHE GF: (PE: JMBER:	<u>RS</u>				T THER EQ Description IW 9 5/ OW TORC	UIPMENT - Location /8 SEAL QUE SYS 	n) ASSI TEM S ANGEI	EMBLY SCREW R.	
OF CASING STRING	Maximum pem Theoretical w CENTRALIZ MGF : TYPE : NUMBER : DEPTH/RKE 951 975 998 2435 2459 2494 2506 2530	r in the thick nissible tens reight of the ERS ATHERFOR 11	sion casing stri RD ST III	5 ng : MC I NL	23 10 RATCHE GF: (PE: JMBER:	<u>RS</u>				T THER EQ Description IW 9 5/ OW TORC	UIPMENT - Location /8 SEAL QUE SYS 	n) ASSI TEM S ANGEI	EMBLY SCREW R.	
CASING.STRING	Maximum pem Theoretical w CENTRALIZ MGF : TYPE : WE NUMBER : DEPTH/RKE 951 975 998 2435 2459 2494 2506 2530 2542	r in the thick nissible tens reight of the ERS ATHERFOR 11	sion casing stri RD ST III	5 ng : MC I NL	23 10 RATCHE GF: (PE: JMBER:	<u>RS</u>				T THER EQ Description IW 9 5/ OW TORC	UIPMENT - Location /8 SEAL QUE SYS 	n) ASSI TEM S ANGEI	EMBLY SCREW R.	
OF CASING STRING	Maximum pem Theoretical w CENTRALIZ MGF : TYPE : NUMBER : DEPTH/RKE 951 975 998 2435 2459 2494 2506 2530	r in the thick nissible tens reight of the ERS ATHERFOR 11	sion casing stri RD ST III	5 ng : MC I NL	23 10 RATCHE GF: (PE: JMBER:	<u>RS</u>				T THER EQ Description IW 9 5/ OW TORC	UIPMENT - Location /8 SEAL QUE SYS 	n) ASSI TEM S ANGEI	EMBLY SCREW R.	

		circulati	on (duration	- depth)					•			
	Total running Troubles duri	time (w ng runni	ith circulations	ons)	h		_aver	age rate		i	oints/h_	
	Bottom hole o Reciprocating M.D. indicatio Observations) : ons after ;	Duration stop of bott	<u>NONE</u> om hole c	irculatio	Rate		· · ·	MIN	Pressure – Amplitude		
	Service cy		L SCHLUMBI				Beg	inning of	slurry mak	ing at	17:1	
	Mixing pump Slurry injection Displacement p	pump .]	L SCHLUMBI DOWELL SCI RIG PUMP	<u>-RGER</u> HLUMBER(GER		End	of displa	making at cement at ased in ca		17:4 19:3 19:4	30
	Nature or class of cements	Sacks or bulk	Cement weight increase %			W		nd additive re : quant				TONNA
_	1 "G"	BULK	CALIPER									141
-	2			0.02 G	/SK	D109						27 GAL
	3			0.15 G/	/SK	D80						138 G/
	- 	TERISTICS	0.E	S.G.	P.V.	Y.	v .	600	VISCO: 300	SIMETER RE	ADINGS VS	<u>R.P.M.</u>
	CANAG	TENISTICS	1						500			
	SI	LURRIES	2		+					18.12		
			3	\triangleright			<	$>\!\!<$	\geq	\sim	> <	\rightarrow
	SPA	CER PLUG	s 1 2					_	_	` `		Ţ
	Slurry injecti	on rate		·L				Displace	ment rate			_ <u></u>
-	Displacement											· · · · · · · · · · · · · · · · · · ·
	Pressure at the							•				
	Estimated loss Casing string Residual press	ses pressurir	9.3M ²	2500	PSI	- Result	·	PRESSU	RE DROP		PSI	
	M.D. indicatio		•								[7	
	M.D. indication Casing string	set on sp			h	. after t	he en	d of disp	lacement	•	1	
	Spool:MFG _ Suspension and											
•	Additional sea Distance betwo Cut casing	l (type - een the u	dimensions) upper part of	the spool	and R.K above t	(.B he spoo						
(Temperature w Cementing log Result of these	ell loggi after			h h	, setting , setting)		Top cen	nent annul	us →[2070
	Test casing st		O.P.(blinda)			•		BOP T		YDRII 20		4000

Well sit	TARRA	1	Casing diameter	9-5/8		ance above th the mud-line i		,	94.30
Equipment joint number	Thickness and grade	Threads	Unit length	Cumulated length	Equipment joint number	Thickness and grade	Threads	Unit length	Cumulate length
ROTARY T	ABLE TO TOP	9-5/8	HANGER	94.30	42			11.80	587.68
HANGER			0.70	95.00	43			11.85	599.53
	471b/ft N80		11.56	106.56	44			11.95	611.48
2	BUTTRESS		11.61	118.17	45			11.66	623.14
3			11.74	129.91	46			11.98	635.17
4			11.79	141.70	47			11.83	646.95
5			11.85	153.55	48			T1.84	658.79
6			11.91	165.46	49			11.82	670.61
7			11.78	179.24	50			11.74	682.35
8			11.85	189.09	51			11.71	694.06
9			11.81	200.90	52			11.91	705.97
10			11.32	212.22	53			11.84	717.81
11			11_51	223 73	54	+ <u></u>		11.76	729.57
12			11.71	235:44	55			11.84	741.41
13			12.05	247.49	56			11.69	753.10
14			11.67	259.16	57			11.89	764.99
15			11.70	270.86	58			11.60	776.59
16			11.75	282 61	59			11.81	788 40
17			11.75	294.36	60			11.42	799.82
18			10.80	305.16	61		1	11.87	811.69
19			11.77	316.93	62			11.50	823.19
20			11.63	328.56	63		İ		1
21			11.51	340.07	T			11.70	834.89
1		······		1	64		<u> </u>	11.58	846.47
22			11.91	351.98	65			11.73	858.20
23			11.95	363.93	66		-	11.85	870.05
24			11.73	375.66	67			11.71	881.76
25			11.75	387.41	68		<u> </u>	11.52	893.28
26			11.90	399.31	<u>69</u>			11.58	904.86
27			11.86	411.17	70			11.51	916.37
28			11.82	422.99	71			11.59	977.96
29			11.72	434.71	72		1 T	11.86	939.82
30			11.83	446.54	73 *			11.87	951.65
31			11.95	458.49	74			11.82	963.5
32			11.73	470.22	75 *	tern ma felanta i rhapard e dana diga a genark dan yang t		11.63	975.1
33			11_80	482_02	76			11.87	987.0
34			11.82	493.84	77 *			11.76	998.7
35			11.75	505.59	78			11.76	1010.5
36			11.79	517.38	79		└──── ┤	11.88	1022.4
			11_82	529.20	80			11_67_	1034.0
38			11.47	540.67	81			11.75	1045.8
			11.73	552.40	82			11.64	1057.4
40			11.77	564.17	83			11.62	1069.0
41			11.71	575.88	84			11.84	1080.9

IMPORTANT: the detailed composition of the casing string should be given from top to bottom. For the upper joint the length unc RKB will only be considered. So each cumulated length where the RKB true measured depth of each corresponding joint.

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Well sit	TARRA	1	Casing diameter	9-5/8		ance above th the mud-line i		, 94	.30
Equipment oint number	Thickness and grade	Threads	Unit length	Cumulated length	Equipment joint number	Thickness and grade	Threads	Unit length	Cumula length
85	471b/ft N80		11.83	1092.76	128			11.84	1598.8
86	BUTTRESS		11.84	1104.60	129			11.71	1610.5
87			11.68	1116.28	130			11.80	1622.3
88			11.77	1128.05	131			11.94	1634.3
89			11.75	1139.80	132			11.98	1646.2
90			11.66	1151.46	133			11.82	1658.
91			11.92	1163.38	134			11.69	1669.
92			11.93	1175.31	135			11.86	1681.0
93			11.61	1186.92	136			12.06	1693.
94			12.06	1198.98	137			11.72	1705.4
95			11.85	1210.83	138			11.72	1717.
96			11.63	1222.46	139			11.69	1728.
97			11.90	1234.36	140			11.77	1740.
98			11.76	1246.12	141			11.76	1752.
99			11.80	1257.92	142			11.76	1764.
100			11.81	1269.73	143			11.73	1775.
101			11.47	1281.20	144			11.66	1787.
102			11.35	1292.55	145			11.95	1799.
103			11.78	1304.33	146			11.79	1811.
104			11.68	1316.01	147			11.77	1823.0
105			11.93	1327.94	148			11.88	1834.
106			11.68	1339.62	149			11.92	1846.
107			11.91	1351.53	150			11.55	1858
108			11.76	1363.29	151			11.72	1 <u>87</u> 0.
109			11.79	1375.08	152			11.82	1881.
110			11.68	1386.76	153			11.72	1893.
111			11.83	1398.59	154			11.83	1909.
112			11.83	1410.42	155			11.78	1917.
113			11,48	1421.90	156			11.79	1929.
114 -			11.69	1433.59	157			11.80	1940.
115			11.73	1445.32	158			11.56	1952.
116			11.80	1457.12	159			11.80	1964.
117			11.92	1469.04	160			11.69	1975.
118			11.79	1480.83	161			11.70	1987.
119			11.80	1492.63	162			11.82	1999.
120			11.62	1504.25	163			11_89	2011.
121			11.97	1516.22	164			11. 70	2023.
122			11.80	1528.02	165			11.92	2034.
123			11.67	1539.67	166			11.68	2046.0
124			11.78	1551.47	167			11.43	2058.
125			11.80	1563.27	168]	11.74	2069.
126			11.99	1575.26	169			11.91	2081.
127			11.75	1587.0 T	170			11.85	2093.
					I				

IMPORTANT: the detailed composition of the casing string should be given from top to bottom. For the upper joint the length und RKB will only be considered. So each cumula^a length will be the RKB true measured depth of each corresponding joint.

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Well sit	TARRA	1	Casing diameter	9-5/8	RKB dist or above	ance above the the mud-line i	e ground n off-shore	8	94	2 - 7
Equipment joint number	Thickness and grade	Threads	Unit length	Cumulated length	Equipment joint number	Thickness and grade	Threads	Unit	length	Cumulater length
171	471b/ft N80		11.84	2105.37						
172	BUTTRESS		11.88	2117.25						
173			11.89	2129.14	· · · · ·					ra
174			11.89	2141.03						
175			11.54	2152.57		·				
176			11.79	2164.36						
177			· 11.77	2176.13						
178			11.88	2188.01				· · · ·		
179			11.76	2199.77			L			
180			11.90	2211.67	ļļ	1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997	ļ			
181			11.90	2223.57		······				With Disgunstration of the International Association of the International Association of the International Asso
182			11.91	2235.48						
183			11.80	2247.28						,
184			11.99	2259.27	ļ					
185			11.96	2271.23						
186			11.87	2283.10	h					
187			11.95	2295.05						
188			11.90	2306.95						
189			11.65	2318.60						
190			11.83	2330.43						
191			11.83	2342.26				•		······
192			11.73	2353.99						
193			11.57	2365.56						
194			11.75	2377.31						
195			11.75	2389.06					+	
196			11.79	2400.85				<u></u>		<u></u>
<u>197</u>			11.51	2412.36						******
<u>198</u>			11.80	2424.16					+	<u></u>
199 *			11.68	2435.84						
200 -			11.87	2447.71					+	
201 *			11.77	2459.48						
202			11.74	2471.22					+	<u></u>
203 *			11.71	2482.93					+	
204			11.57	2494,50					+	
205 *			11.95	2506.45	┝				+	
206			11.88	2518.33				<u></u>		
207 *			<u>11.91</u> 0.50	2530,24						
TLOAT				2530.74					+	
<u>208</u> * 209 *			<u>11.91</u> 11.85	2542.65 2554.59					+	
T									+	
210 *			11.90	2566.40					+	
SHOE			0.60	2567.00						
*	INDICATED C	ENTRALT	SER							

IMPURTANT: the detailed composition of the casing string should be given from top to bottom. For the upper joint the length und RKB will only be canaldered. So each sumulated length will be the RKB true measured depth of each corresponding joint.

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TIME DISTRIBUTION

F6 bis/12-80

OPERA	TOR		CΟι	JNTRY			WEL	L			RIG		C0	NTRA	CTOR		MON	TH/YE	EA
<u>A.A.</u>)		AUS	STRAL	IA	Ţ.	ARRA	1		EAN	DIG	GER		ODEC	20		MARCH	<u>1_83</u>	}
Number of day from start de dung Y	·.4	D . 0 N 3		;	F t tañ		۰.,	FORM	G 'A DON	SURY	VEYS	IN OPER)	TERRI	A JPTION S UNDE	I OF ER For G	C	OMPLE	C TION A GGING	ANI
	D	D ₂	D ₃	F ₁	F ₂	F,	F ₁	G	G ₂	G3	G₁	Α,	A 2	A ₃	A ₄	C ₁	C ₂	C ₃	T
1 2 3	5.5 21.5 18.5		2.5			MO	VING,	/ ANCI	HORIN(G .			• •	•					
· 1	0.5			9.5	5.5		8.5			26"	PHAS	Е	· · ·	•	•••• ••• ••		+		
° 3	<u> </u>	4.5					24 6						13.5		4				-
⁷ 4			-					<u>17¹/2</u> '	PHAS	SE			24 22,5		1.5				-
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2) Side-track drilling further to a change in the deploace: 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.

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	A.A.	P	AUS	TRALI	A	TARRA	1	OCEAN	DIGG	ER	<u> </u>	ODECC	<u>)</u>	╤╧╛	APRIL	83_	-
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N.B	e s 27 Si	Time speri hole is rea Time sper ge-track di	ched. ht on G4 fo rilling furthe	F3 for te r lugging ar to a chá	chnical necessi ange in t	nes side tracks, unt taded by a fish the geological ta av of the side ti	ing jeb arget is cons				se the na	Correc	tion of	drill-p	ath	 ne).]

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(T)	F7		- 11	78	3		DRILLIN					1	DEDEODU		В	IT REC	ORI								1	DULI	BIT			5				
			╢	Т		<u> </u>			N	ozzl	e 5		PERFORM		÷			PARA	Γ		Ŧ	ML B		િં	╟─	COND			TION	trippin				
Kun number	Operation	Drive	Rit true	adkı ild	Bit Diamețer	Manufacture	Code IADC	Serial number	1 / 32	2 √ 32	3 / 32	Operation starting depth	Footage in this operation	Drilling time (hours)	Drilling rate	Déviation	Weight on bit	R.P.M.	Flow rate	Pressure	Density (mud weignt)	Plastic Viscosity (Solid cont (%)	Water loss (cc)	Т	В	G	Ubservations on grading	GEOLOGICAL FORMATION	Reason for tripping	Type of turbodrill	Turbodrill diameter	Turbodrilled footage	Total time (hours)
1	F	R	2	т	26"	SMI	DSJ	SA5248	18	18	18	93	126	9½	13.2	0	1/5	60/80	3200	1750	SEA PILL	WATER	+ HI	VIS	1	1	I		NO RETURI	٩E				
	RA	R		т	17½	HUG	OSC3A	2505R	18	18	18	199	20]1 ₂	13.3		5/10	100	3300	2000														
	F	R	2	т	17½	HUG	OSC3A	2505R	18	18	18	219	107	4½	23.8		8	100	3300	2000	1.08	6	5	NC	1	1	1		CMT	E				
2F	RA	R	2	т	17½	HUG	OSC3A	2505R	18	18	18	307	159	7½	21.2		5/10	<u>60</u> 100	3300	1800	1.08	6	5	NC		INC			CMT					
F	F	R	2	т	17½	HUG	OSC3A	2505R	18	18	18	326	618	37½	16.5	2 ⁰	0/18	120	3200	2100	1.11	6	5	NC	3	6	I		CMT	B-A				
}	F	R	2	т	17½	HUG	OSC3A	302SP	18	18	18	837	173	14½	11.9	120	20	130	3200	2300	1.12	6	5	NC	1	1	I		СМ	E				
1	RA	F	2	т	121/4	SMI	FDGH	XA6663	13	13	13	976	34	2 ¹ 2	13.6		3/9	50	1980	1700	1.13	7	5	NC		INC			CMT					
4	F	F	2	т	12¼	SMI	FDGH	XA6663	13	13	13	1010	324	21	15.4	3/4 ⁰	28	105	1930	2260	1.12	5	. 5	26	6	7	I		A	АВ				
5	RA	F	2	т	124	HUG	ХЗА	SV736	13	13	13	1505	385	2 ¹ 2	154		0/8	80 110	2100	2600	1.14	15	7	14.2		INC			Α					
5	F	F	2	т	12¼	HUG	ХЗА	SV736	13	13	13	1334	732	36½	20.1		20	110	2100	2600	1.14	15	7	14.2	4	7	1/8		A	АВ		\bot	<u> </u>	
6	RA	F	2	т	124	REED	HS51	NBH188	13	13	13	1709	357]½	238		2/5		2100	2600	1.17	10	10	16.4		INC			A			\perp	ļ	
6	F	F	R	т	124	REED	HS51	NBH188	13	13	13	2066	10	31 ₂	2.9	3 ¹ / ₄ 0	$\frac{20}{30}$	50 110	2100	2600	1.17	10	10	16.4	1	1	I		A		BIT W DRILL	JULD IN C	NOT LAYSTO	NE
7	RA		R	T	12¼	HUG	ХЗА	KK316	13	13	13	2039	37	1	37		5/10	100	1900	2400	1.17	10	10	16.4		INC			А	\square		\perp	<u> </u>	_
7	F	L I	R	т	12¼	HUG	ХЗА	KK316	13	13	13	2076	189	24	7.9	2 3/4 ⁰	22	115	1900	2450	1.14	14	10	7.6	7	5	I		AG	A	 		_	
6	R F		R	Т	12¼	REED	HS51	NBH188	13	13	13	2265	200	38	5.3	1 3/4 ⁰	25	70	1900	2600	1.15	15	9	6.6	2	4	1 ₄		G	AB	 	<u> </u>	<u> </u>	<u> </u>
8	F		R	Т	12 ¹ 4	REED	HS51	NBH184	13	13	13	2465	6	2	3		25	60	1900	2600	1.15	15	9	6.6	1	1	I		GA	\square	VEAT	ED DU HER	Е ТО В	AD
9	F	-	R	T	12¼	SMI	FVH	XB0999	13	13	13	2471	109	18	6	1 3/4 ⁰	25	110	2100	2700	1.15	15	9	5.8	8	7	1 <u>4</u>		AS	В	#	-	<u> </u>	<u> </u>
10	COND RA		R	Т	12 ¹ 4	SMI	FVH	XB0994	13	13	13							ļ	2100	2700	1.15	16	9	6.6		NEW				Ε	*COND 9 5/			FOR
11	RA		R	Ţ	81 ₂	SMI	SVH	CE4110	14	14	14	2530	50	3 ¹ 2	14.3		5/12	30/50	1000	850	1.15	22	8	19.6		INC			СМТ	$\downarrow \downarrow$				
11	R		R	т	82	SMI	SVH	CE4110	L		14	2580	3	3 ¹ 2	0.86	ERVATION	16		1000	900	H	h	<u> </u>	19.6	4	1	L	BT		A	FLOA	GLD D T COL	FILLIN LAR	G
	K - NA }- P - E - PE -	Dritting Coring Redrittin Reaming Pilot hold Pilot open Simultan opening	j and co le drillin ming vaous p	ntret t 19 pilatinj	er coment) trip g and hole h aperation	M - 1 SIT DESIG T - T 8 - 1 M - 0 F - A 0 - 0 C - 0 A - F	furbline lettom hole me wrbine Wi Frisones frotk b licones Thier cone rock	ter other then its) bits sed symble center	The set the man HUR - SMI - REE - SEC - SMF -	Nugha Smith Read Securi SMF Diama	isine the r name t ty	first three letters •	T2 - Teeth T3 - Teeth T4 - Teeth T5 - Teeth T6 - Teeth T7 - Teeth T8 - Teeth	CONDITION hight 1/8 gene hight 1/4 gene hight 1/2 gene hight 1/2 gene hight 3/8 gene hight 3/8 gene hight 3/8 gene hight all gene	Teeti CT ET ST SU RG	h and cones Chipped tests Enoded tests Broken tests Bit belled up	er inserts or inserts uge tooth psuge tooth	Beering GL SF LC or SP Or Sh bod SL PN	 Cone(s) Bearing Scal fail Lost cat Brakan journels 	iere ne(s) baaring pie s - Pinched nozzle(s)		- Ch - Se - Se - Ch - Ch - Ch	ey mestone ol wit er shale welk ind ndstone wert wert sanite ongiomerat ypsum - Ai	i dolomite le shydrite		be defi drilled, arder of Ex. ((ned by the with a c reletive i (1) Ap : : (2) AS : (3) Mct :	e codes maximu importar Plast Clay Mari	ic clay and sand and solft lime and tight d	entone	ns A in S C D E Ex.	- Ponet - Inere - Hydr - Bit d - Rose	TRIPPING tration dowing total problem railic problem riti maximum on other then on other then as the then string modifics	i hours allowed bit problems

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			╢—	T		DRILLIN			ozzle			PERFORM					PARA	METE	RS		М				DULL				P		_	ODRILLE	
Run number	Operation	Drive	Bit type	Diameter	Manufacturer	Code IADC	Serial number	1		3	Operation starting depth	Footage in this operation	Drilling time (hours)	Drilling rate	Déviati	Weight on bit	R.P.M.	Flow rate	Pressure	Density (mud weignt)	Plastic Viscosity (cp)	solid content (%)	Water loss (cc)	т	В	G	on grading	GEOLOGICAL FORMATION	Reason for tripping	Type of turbodrill	Turbodrill diameter	T	Total time
2	F	R	T_	8½	SMI	F2	XA1552	14	14	4	2583	214	46½		1 3/4	² 18	65	1134	900	1.09				2	4	T		GK	B			<u>н</u>	╞
ки	K	R	Т	81 ₂	CHRIS	RC3	82B0932	WA CO	TER JRSE		2797	7	2½			7	75	800		1.09	19		6.4		USEI	-+-				27 40	DE 00		-
3	RA	R	т	81 ₂	SMI	F2	XA1558	14	14 1	4	2781	23]	23		5/10	1	1118	900	1.09			5.9		INC	-+	+	<u>u</u>	A	21.4%	RECO	VERY	-
3	F	R	Т	81 ₂	SMI	F2	XA1558	14	14 1	4	2804	86	25		1 3/4	20	65	1118		1.09	17		6						╞╢				<u> </u>
<	К	R	т	<u>15</u> 832	CHRIS	C22	81E0937			1	2890	15	5			8	90	985	700				6 6	2 75%	3 1 0K	1/8		G G	E	91% RE	COVE	DV.	
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* } :	- 19610 (- Simul opeci	g Hing fform hale drilli opening teneous ng	piloting	r coment) M	- Turbie - Better turbin T DESIGN - Tricon - Bicone - Other - Mill - Dieme	n hole meter e es (rock bits) is cone rock bit	ether then HU RE DE DE	NUFACT menufact G Hu I Sm E Rec C Sec F SM I Dia R Chu	nstitute t uror nom hes ith id urity F mond here		rne lemen of	 DULL BIT CON Taeth high Taeth high Taeth high Taeth high Taeth high Taeth high Taeth hight Taeth hight Taeth hight Taeth hight Taeth hight 	1/8 gone 1/4 gone 3/8 gone 1/2 gone 5/8 gone 3/4 gone 7/8 gone	Teeth en CT ET BT BU RG WG	EVATION 1 Chipped testh Eroded testh Broken testh Dit belied up Reunded get interts Worn or lost g leserts Fixt crusted	r incorts r incorts po toeth or	Beerings CL = BF = SF = 1 LC = 1 BP = 1	GWYMBCE	ring pint o	M D S Q V X	- Cley - Limeste - Marl or - Chelk - Send - Sendsto - Quertz	shale ne	omite	dril ord	lefined by led, with Ir of releti (1) Ap (2) AS	r the code a maxim ve import : Pla : Cla		ost formati Iros placed	ians I in	B — k C — H D - B E — N Ex. (1)D	Penetration Increasing 9 Hydraulic p Bit drill me: Neeson othe Drillstring n Casing	n slowing down torque	licusd

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