APPENDIX 2

BIT RECORD

BIT RECORD PATTIES PIES-1

Bit No.	1 Rerun 1	2
Size	216 mm (8.1/2")	156 mm (6.1/8")
Type	MH 113G	Reed EHT 12
Serial No.	KT 2055	LX8853
Jets	Open	14.14.12
·		
Out (m)	100	441
In (m)	10	100
Drilled (m)	90	341
Bit hrs on bottom	7	16
Condition	2.2.IN	IN
Avg ROP (m/hr)		21.3
WOB (x 1000 DaN)	0/4	2/4
R.P.M.	60	90

APPENDIX 3

DRILLING FLUID REPORT



DRILLING FLUIDS SUMMARY FOR LAKES OIL

PATTIES PIE # 1 GIPPSLAND BASIN

Prepared by : Ken Pierce

Andre Skujins

March 2003

Operator :

Well Rig Lakes Oil

Patties Pie # 1 Sides Rig # 1

Spud

15th March 2003



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- 1. Summary of Operations
- 2. Observations, Recommendations and Well Analysis
- 3. Material Costs and Consumption Analysis
- 4. Mud Materials Reconciliation
- 5. Fluid Properties Summary
- 6. Mud Volume Reconciliation
- 7. Graphs
- 8. Daily Mud Reports

Operator

Rig

Spud

Well

Lakes Oil Patties Pie # 1 Sides Rig # 1 15th March 2003



1. SUMMARY OF OPERATIONS

Patties Pie # 1 was spudded in on the 15th March 2003 utilising Sides Engineering # 1 and reached a total depth of 441 m on the 22nd March 2003.

Make up water was tested on site and found the following properties:

Chlorides

300 mg/l

Hardness

300 mg/l

рΗ

7.5

HOLE SIZE

216 mm (81/2") Surface Hole

MUD TYPE

Gel Spud Mud

INTERVAL

0 - 98 m

CASING

178 mm (7") @ 96 m

Prior to spudding, the conductor barrel had to be re-cemented. Quick set cement and Portland cement were placed in around the collar of the surface casing that was freshly dug out by the crew.

After dressing the shale shakers with B20 / B80 screens, priming the mud pump, installed mixing tank, spud mud was mixed into mud pits. 100 bbls of spud mud was prepared comprising 37 ppb Ausgel and Caustic Soda and Soda Ash to lower hardness and increase the pH to around 10. The relatively poor mixing facilities led to more gel than usual being used. Due to the limitations of the overall mud system. cement contamination from the re-cementing of the conductor barrel led to guite severe flocculation of the spud mud.

A 216 mm bit and BHA were made up and drilling continued to 26 m, where partial mud losses and mud flow outside of the casing occurred. The cellar was pumped out and the mud viscosity was increased in an attempt to stop mud losses, with no success.

Mixed and spotted 14 sacks of ready mix cement around the conductor and waited on cement. The same 216 mm bit was run back in and when circulation started, mud returns were observed inside the cellar and outside the concrete ring. Bulk cement was ordered and prior to pumping more cement, mud from the cellar was pumped out into mud pits.

After waiting on cement, the same bit 216 mm was run back in and drilled from 26 m to 98 m, surface casing depth. While drilling this section, partial returns were noted when between the shales. Enerseal Fine was added to assist in reducing losses. Also, as the cellar was leaking and filling up with mud, the cellar pump was used to keep up mud returns to mud pump.

Operator Well Lakes Oil Patties Pie # 1

Rig Spud Sides Rig # 1 15th March 2003



A wiper trip to 60 m found hole in good condition. After circulating the hole clean, tripped out of hole and prepared to run 178 mm casing. Worked tight spot in hole at 35 m while pulling out.

The 178 mm casing was run to 72 m, where an obstruction in the hole (formation limestone) was circulated while attempting to push casing down through the hole. A pump failure to empty cellar and keep up with mud returns with pit suction volume also occurred.

With new pumps installed to pump out cellar while washing down casing, the casing was further run to 90 m, the shoe depth. The hole was circulated clean and cement was pumped and displaced with mud.

HOLE SIZE

156 mm (6-1/8") Production Hole

MUD TYPE

KCI Polymer

INTERVAL

98 m - 431 m (TD)

CASING

P&A

While waiting on cement, cleaned out cellar and pumping equipment. Installed Braden head, nippled up BOP's, modified choke manifold, installed HCR and kill line. Installed koomey unit, insufficient rig air volume supply to pressure up koomey unit. Wait on hired compressor, make up 156 mm (6-1/8") bit with sub and float valve.

Made up new mud as programmed. KCI was added to slowly achieve a concentration of around 2% and Pac was initially added at 0.5 ppb. After pressure testing BOP's, drilled out cement plug and shoe with gel mud. Drilling then continued from 98 m to 290 m, where the bit was pulled back to 245 m and the hole circulated for 3 hours for a possible test. The bit was then run back in to 290 m, where the hole was circulated clean. The pipe was again tripped back to 245 m, where some dilution was required to dilute the mud to maintain the mud weight below 9.0 ppg. The increase in mud weight occurred due to a solids build up in mud pits resulting from not being able to dump mud (as requested), and with the drilling of sand and not be able to run a desander, the mud system carried up to 3% sand.

It was decided to drill ahead from 290 m to 441 m (TD). Further additions of AMC Pac-R were made to keep fluid loss levels at around 8 cc's. KCl was also added to maintain the KCl concentration at around 2%. At TD, circulated the hole clean and made a wiper trip. After again circulating the hole clean, tripped out for electric logs.

Electric logs were run as programmed with the hole in good condition. Once logs were completed, ran back in to hole with open ended drill pipe to 320 m, and circulated and conditioned hole for cementing. Cement plugs were then pumped as programmed for P & A operation.

Operator :

Lakes Oil

Well

Patties Pie # 1 Sides Rig # 1

Spud

15th March 2003





2. OBSERVATIONS, RECOMMENDATIONS AND WELL ANALYSIS

Patties Pie # 1 was drilled to a total depth of 441 m for a total mud cost of \$5,219.50 or \$11.84 per metre. Apart from minor instances of tight hole, hole conditions were generally good and mud related problems did not occur.

81/2" Surface Hole

This section of hole was drilled for \$2,445.00 or \$24.05 per metre with a gel based spud mud. Over half of the interval cost comprised Enerseal (LCM), which was added due to significant down hole loses occurring. Apart from some down hole losses, the remainder of the interval was drilled problem free. Some problems were encountered when running casing, as it hung up at 72 m. However, after circulating, it was run to casing point and successfully cemented.

6-1/8" Production Hole

This section of hole was drilled with a KCI - Polymer mud for a mud cost of \$2,774.50 or \$8.09 per metre. Initially, the section was drilled with a lightly treated KCI Pac based fluid. As drilling continued, the KCI concentration was gradually raised to 2% and the AMC Pac-R concentration was increased also, so as to lower fluid loss to below 10 cc's and increase the yield point. By the time TD was reached, the yield point had risen to 18 lb/100ft² with the fluid loss at 8 cc's. The mud weight had also risen to 9.6 ppg, mainly due to the high sand content.

The overall mud program seems suited to this area. After drilling out the 178 mm casing, properties were <u>slowly</u> improved as drilling continued. This is a more economical approach to building a mud system, as long as hole conditions in the top part of the hole do not suffer as a result.

General Comments

There were some problems in running the mud system on this rig, as compared to more conventional rigs. Mud pits were dug in the ground, solids control equipment was not always operational and mixing facilities were only just adequate. There is no suggestion that improvements or the like have to be made. Shallow holes such as this have their own set of economics and a rig such as this one is probably ideal.

Operator

Lakes Oil

Well Rig Patties Pie # 1 Sides Rig # 1

Spud

15th March 2003



The problems noted, though, are simply stated as an explanation as to how the mud was run and why, and the properties thus attained. For example, the mud weight towards TD increased to around 9.6 ppg, but a 3% sand reading (as the desander did not work) was responsible for 40% of the fluid's drilled solids.

Earlier in the well, cement contamination (due to the re-cementing of the conductor barrel) caused flocculation problems with the spud mud. A lack of agitation also caused problems with maintaining good properties, especially when the mud was standing still over night.



3. INTERVAL COSTS

				∞	8-1/2" Surface Hole	Hole	9-1	6-1/8" Production Hole	n Hole	Tota	Total Well Consumption	mption
			Interval :		0 - 98 m			98 m - 441 m (TD)	(TD)		0 - 441 m (TD)	(a
Product		Cost	Unit Size Used	Used	Cost	%Cost	Dasu	Cost	%Cost	Nsed	Cost	%Cost
AMC Pac-LV	\$	177.50	25 kg				-	\$177.50	6.4%	1	\$177.50	3.4%
AMC Pac-R	8	177.50	25 kg				9	\$1,065.00	38.4%	9	\$1,065.00	20.4%
Ausgel	8	13.50	25 kg	84	\$1,134.00	46.4%			-	84	\$1,134.00	21.7%
Caustic Soda	49	35.00		_	\$35.00	1.4%	2	\$70.00	2.5%	က	\$105.00	2.0%
Defoamer	8	145.00	25 It				7	\$290.00	10.5%	2	\$290.00	2.6%
Enerseal Fine	↔	52.00	25 kg	24	\$1,248.00	51.0%				24	\$1,248.00	23.9%
KCI	↔	18.00	25 kg				62	\$1,116.00	40.2%	62	\$1,116.00	21.4%
Soda Ash	↔	28.00		1	\$28.00	1.1%	7	\$56.00	2.0%	က	\$84.00	1.6%
			Totals:		\$2,445.00	100.0%		\$2,774.50	100.0%		\$5,219.50	100.0%
		Cost p	Cost per Metre :		\$24.95			\$8.09			\$11.84	



4. MATERIALS RECONCILIATION

Well:

Patties Pie # 1

		TOTAL	TOTAL	TRANSFER
PRODUCT	UNIT	RECEIVED	USED	BALANCE
AMC Pac-LV	25 kg	10	1	9
AMC Pac-R	25 kg	20	6	14
Ausgel	25 kg	126	84	42
Barite	25 kg	160		160
Caustic Soda	20 kg	18	2	16
Defoamer	25 lt	4	2	2
Enerseal Fine	25 kg	24	24	
KCI	25 kg	80	62	18
Lime	20 kg	2		2
Soda Ash	25 kg	4	2	2



5. FLUID PROPERTIES SUMMARY

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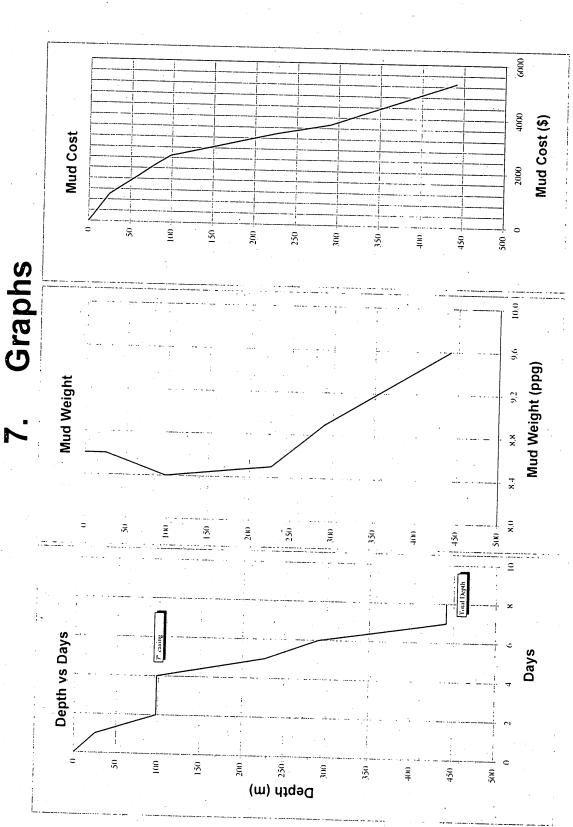


6. Mud Volume Analysis

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	Dilution Factor	0.6 bbls/m	0.8 bbls/m	
Dilution Factors	h Difution Vol	e0 bbis	270 bbis	
Dila	g	98 m	343 m	
	81/11 Surface Hele	6-1/8" Production Unit	alou lionana	







8. Daily Drilling Fluids Reports

		1/	EP					Rig	No	1	Spud:		13-Ma
OPERATOR I	akes Oil							Den					15-Ma
DEDODE	Gerard Nicot				CON	TRACTO)R			gincering	to		Metres
WELL NAME AND No	rerard Nicot					ORT FOR				eman			
Р	atties Pie # 1				FIEL				CAT		1 6		
DRILLING ASSEMBLY JET	SIZE	CASIN	10		Wild					nd Basin		TATE	
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ORILL PIPE TYPE Length	Mirs	SET @	ft M	TOTAL CI	RCULATIN	G VOL.	PUA	IP MODEL		ASSUMED E		ESS (PSI) TTOMS	
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COLLAR SIZE (") Length	MUD TY Mtrs	PE									TIN	L CIRC. IE (min)	
	3103						81	BLAMN		GAL / MIN		N VEL. DP	
SAMPLE FROM				IUD PRO	PERTIES			ì	MUD	PROPERTY	SPECIE	Vmin) DCs	
TIME SAMPLE TAKEN							Weight		7	PI Filtrate	SPECIFI		Filtrate
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SOLIDS CONTENT (% by V	'olume)												
LIQUID CONTENT (% by Vol. SAND CONTENT (% by Vol.	/olume) OIL/WA	TER											
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K+ (mg/L)						7							
KCI (% by Wt.)						7							
PHPA (ppb)			+										
UID BUILT & RECEIVED	Mud Account	ting (bbls)											
x (drill water)		DISPOSED	St	MMARY		4			Soli	ds Control E	quinment		
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REPOR	RT FOR	Gera	rd Nicot						VTRACT(Sid	es En	gincering				tetres	<u>s</u>
WELL	NAME AN							FIEI	ORT FOI	R		er Fre						_
DRILLING	ASSEMBLY		es Pie # 1					Wild				OCAT			STATE			
BIT SIZE	TYPE	JET SIZE		CASIN	G		MUD		ME (BBL)	7	Gi	ppslai	nd Basin		Victoria			
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RILL PIPE	# TYPE			NT. ET @		ft M	TOTAL CH	RCULATIO	NG VOL.	PU	5.5 X IP MODEI	10	ASSUME!		IRCULATION PRESS (PSI)			
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RILL COLLA	AR SIZE (")	Length	MIDTY			М							STK/MIN	TO	OTAL CIRC. TIME (min)			
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YIELD	POINT (ib	/100ft²)			\dashv				MAK	E UP WA	TER TE	STED	CHORIDE	S 300MG/	/I.			
GEL ST	RENGTHS TE API (c	(lb/100ft ²) 10	0 sec/10 min		_		-					i	IARDNES	SS 300MG	i/L			
HPHT F	ILTRATE	c's/30 min) (cc's/30 min) a					_						PH	7.5				
CAKE T	HICKNESS	API: HPHT	(32nd in)	⁰ F	-				FIXIN	NG MUD	STSTE	4 T/ \ A	ADV ADV					
SOLIDS	CONTENT	(% by Volum	ne)		- -						0101151	4. 1() <u>r</u>	MIX VID	ITIONAL	PROPERTI	ES		
LIQUID	CONTENT	(% by Volur	me) OIL/WA	TER				 -										
METHY	ONTENT (CARL			_		-+-											
рН	CEIVE BLUE	CAPACITY	(ppb equiv.)					\dashv			OP	ERATION	IS SUMM	IARY			-
ALKALI	NITY MUD	(Pm)			-													
ALKALI	NITY FILTE	RATE (Pf/M	1t)		+-				DRILL	ED AHEA	D 12 1/	4 " BH	. WITH V	1D		•		
CHLORI	DE (mg/L)								SET 9 5	5/8 " SUR	FACE (ASING	3 AND CI	EMFNT				
SULPHIT	E (mg/L)	AS CALCIUM	(mg/L)		1		_											
K+ (mg/	L)						_		\dashv									
KCI (%	by Wt.)																	
РНРА (рр	b)																	
LID RUTUT	& RECEIVED	N	Mud Account	ing (bbls)														
(drill water			FLUID	DISPOSED	T	SU	MMARY			Fee:		Soli	ds Control	Equipmo	ent			
(recirc from			Desander		181	TIAL VOL	UME	\top	Centri	ifuge	pe Hrs	↓	Cone			Г	Size	٦
ater			Desilter Downhole		4				Degus			Des:	inder		Shake	er#1		7
Recirc Sump			Dumped	· 		JUD RECE	EIVED				┪—	Des	iller		Shake	r #2		1
eg Diesel)			Other			UD LOST UID IN ST												┙
TOTAL REC	CEIVED				1				Desander)verflow	(ppg)	Unde	rtlow (ppg)	0	utput (C	al/Min.	<u>.</u>
oduct	Price	Start	TOTAL LOST		FINAL	. VOLUME			Desilter					0				_
		1	Received	Used		Close	(ost	1-	Solids A	nalysis			0				_
							-			A	PPB	%	Int V	Bit Hydi elocity	raulics & P	ressure	Data	_
							 		High Grav s	solids				elocity ict force				_
		 					 		Total LGS				ННР					_
		 					 		Bentonite Drilled Solid		+		HSI					_
		, ,							Salt		 			ress Loss				_
									n a OHrs		+			Seat Frac				_
									L . A		 		ECD	. Mud W	t.			
									Kå 0 Hrs		Į		15.5					
									K a UHS		L			Pressure /	d Shoo			_
									K # OHIS					Pressure a	a Shoe:			_
									K a Ullis					Pressure 6	a Shoe:			_
NGINEER										DAILY	TOST				a Shoe:			_

					LLI							Re	port #	ŧ .	4	Date	::		10	-Mar-2	:003
Drilli	ng Flu	ids			RE	PC	DR	? 7	r			Rig	No		1	Spu	1:	-	15	-Mar-2	003
												De	oth		4	to		25		etres	17073
OPERA			Lakes O	il				CC	ONTR	ACTO	R			ginee	ring				141	ctres	
REPOR			Gerard I	Nicot				RE	EPORT	FOR				cemai							
WELLE	NAME AN	D No						FI	ELD					rion			STA	TE			
Distriction			Patties P	ie # 1				Wi	ildcat			G	ippsla	ind Ba	ısin		1	toria			
DRILLING .	ASSEMBLY TYPE		JET SIZE	9 5/8 SURE	CASING				LUME (BBL)			<u></u>			TION	DAT				
8.5	MH113G			9 5/8 SURF		n M	но	LE I		PITS 89		PUMI 5.5 X	SIZE				CIRCUL.	ATION			
DRILL PIPE SIZE	TYPE #	Length	Mtrs	INT. SET 2	, .		TOTAL CH		VIING VO		PUN	MP MODE		Inches	SUMED	EFF	PRES:	OMS			
DRILL PIPE SIZE		Length		PROD	. or	M II		IN STO	90 RAGE			TARK		STK	MIS		UP				
DRILL COLLA	HW R SIZE (")	Length	Mtrs	MUD TYPE	લ ફે	M											TOTAL O				
			Mtrs		GEL						В	BL/MIN		(AL/MI	×	ANN		DP		
						M	ILD PRO)PER	TIES		<u> </u>		MUD	PRO	FRT	V SPE	CIFIC		DCs		
	LE FROM			, ,		FL				Mud	Weight			API Fi		. 51 2	CIFIC	ATIC	HPHT F	ltrate	
	SAMPLE TA		<u> </u>			1.30	0			Plasti	ie Vis			Yield F	oint				pll		
	LINE TEM		TUDE		Metre:	s				KCI				PHPA					Sulphites		
WEIGH		LKA	TUKE		°C °F	0.00				4				0	BSER	VAT	IONS				_
	L VISCOS	ITY	(sec/qt) API	-â	°C	8.60	1.032			-											
PLAST	IC VISCOS	ITY	cP a		°C	10				CIRC	CULATEL	MID	IN MI	II's DET	יחם י	20010					
	POINT (II					6				MUE	STILL T	HIN A	S ONI	YMIN	S, PIG OR C	: 2201	CE UP	9 5/8 (2 ENIC	CASING	D LUC	
GEL ST	RENGTHS	(lb	/100ft ²)_10 se	ec/10 min		2 3			T	1					OK C	LAT	10 131	: ENC	OUNTE	KED.	
	ATE API (]											
			s/30 min) <i>à</i> : PI : HPHT		°F	ļ]											
			6 by Volume			├ ──┴				4											
	CONTENT		% by Volume		FR					4											
SAND C	ONTENT	(% t	y Vol.)	, 010 117(11		 -			ــــــــــــــــــــــــــــــــــــــ	┼											
METHY	LENE BLU	JE CA	PACITY	ppb equiv.)						CHIE	TRUD DO	ID ANTES		OPER.				RY			
pН						9.0				Terrise	CKED BO	P AND	A55C)CIA II	:D EQ	UIPM	ENT				
	INITY MUI		Pm)							RECE	EMENT 9	5/8 CA	SING								
			E (Pf/Mf	<u> </u>		0.20 (0.30			1			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,								
	IDE (mg/l		CALCIUM			300]											
SULPHI	TE (mg/L	3 A3	CALCIUM		300	_			1												
K+ (m;		,	-							1											
KCI (%	6 by Wt.)									1											
PHPA (p	pb)									┨											
P1 170 5101		•	M	ud Accounti	ng (bbls)					 				Salide	Contr	ol E					
FLUID BUIL		ED		FLUID D	ISPOSED		SUMMA	RY		1		Type	lirs	Solids		nes	llrs	<u>'</u>		Size	-T-
emix (drill wa emix (recirc fi				Desander		INITIAL V	OLUME		90	Cer	ntrifuge			Desand		$\neg +$		\dashv	Shaker #1	20/80	+
ill Water	rom sump)			Desilter	<u> </u>					De	rgusser			Desilte	r				Shaker #2	20/80	+
rect Recirc Sun				Downhole	ļI	+ FLUID RI)										_		<u> </u>	+
her (eg Diesel)				Dumped Other	<u> </u>	FLUID LOS	••••••			1											
	•••••					* 11(11)15	STORAC		<u> </u>	Desande	or	Over	flow (p	pg)	Un	derflov	(ppg)		Outp	ıt (Gal/Min	1.)
TOTAL I	RECEIVED			TOTAL LOST		FINAL VOLU	ME	1	90	Desilter						0					
Product	Price		Start	Received	Used	Close	T	C				le Amuli			_	0					
											30110	ls Analy	PPB	%	1			aulics	& Press	ure Data	
										High Gr	av solids				_	t Velo	<u> </u>				
		-4								Total L(_			н	pact 1	orce				
	 -	-+								Bentonit	te		$\neg +$		HS						
	+	-+								Drilled S	Solids					Pres	Loss				
	+	\dashv								Salt					_		t Frac	Press			
	 	+								n w 01		\Box			Eq	uiv. A	lud W	i			
		$\neg +$								K # 01	Irs				EC	D					
															Ma	x Pre	ssure (i Sho	e :		

RMN ENGINEER

KEN PIERCE

DAILY COST

CUMULATIVE COST

\$1,015.00

08 8338 7266

TELEPHONE

08 8338 7266

			DRI	LL	IN	\mathbf{G}	F	L	UI	D	R	eport	#		5 D:	ite :				
Drilli	ng Flui	ds		\mathbf{R}	EP(1	⊋ η	r				g No		1					17-Mar-	
							. 🖜 ,	•				epth		25	<u> </u>	ud:			5-Mar-	200,
OPERA		Lakes					CC	ONTI	RACTO	R		<u> </u>	ngine			to	98	I	Metres	
REPOR	NAME AND	Gerare	d Nicot				_		T FOR				reem		<u> </u>					
WELL	NAME AND		D: u •				_	ELD					TIO			CT	'ATE			
DRILLING	ASSEMBLY	JET SIZE	Pie # 1					ldcat					land			1	`ATE ctoria			
BIT SIZE	TYPE	JET SIZE	7" SUR	CASINO	295 ft			UME	(BBL)			<u> </u>				ON DA				
8.5 DRILL PIPE	MH113G Le	ngth	SET	è	90 M		DLE 10		PITS 84		PUM 5.5 X	PSIZE				CIRCU	LATION			
SIZE 3.5 DRILL PIPE	G#	29 Mt	INT. SET		It M	TOTAL C			OL.	Pi	'MP MOD	EL.	inche	ASSUME	D EFF		SS (PSI) FTOMS		1400	
SIZE	HW	ngth Mi		D. or Set @	ſſ		IN STO	94 RAGE			CLARK BBL/STK		ST	K/MIN	95.0	UP	(min)			
DRILL COLLA	4.75 Le	ngth	MUD TYPE		M						0.2670 BBL/MIN				66		CIRC. E (min)		8	
1,100	4.73	69 Mt	rs	GEL							7.28		1	GAL7:	MIN 306		N VEL. /min)	DP	125	
SAMP	LE FROM					UD PR	OPERT	TES				MU	D PRO	OPER			CATIO	DCs 2	07 15	1
	SAMPLE TAI	CEN			FL				Mud V				API	Filtrate				HPHT F	iltrate	
	H (ft) - (m)			Ме	11.3				Plastic KC1	Vis				Point				pii		
	LINE TEMPE	RATURE			F 70				-				PHP,					Sulphite	s .	
WEIGI				ppg / SG	8.40	1.008		<u> </u>	\dashv					OBSE	RVA	TIONS				
PLAST	EL VISCOSIT IC VISCOSIT	Y (sec/qt) Al	Pl (å)	°C	43				ADDI	ED GEL	TO GI	VE AL	DITICIC	IANC	PROF	arn a si				
	POINT (1b/1			⁰ C					ADDI	ED ENE	RSEAL	FINE	TO C	ONTR	OL LO	OSS CII	RCIII A	TION		
	TRENGTHS		sec/10 min		14			-	CIRC	ULATE	D AND	CONI	OITIC	N HO	LE FO	R CASI	ING	mon.		
FILTR	ATE API (cc	's/30 min)			3 4			<u> </u>	4											
HPHT I	FILTRATE (cc's/30 min) 'a	i	° F					\dashv^{NEW}	MAKE	UP WA	TER	TESTE							
CAKE	THICKNESS	API: HPHT	(32nd in)		1	$\neg \uparrow$			┪					H	ARDN	ESS 40				
LIQUID	CONTENT CONTENT				0.4			<u>. </u>	7							PH 7				
	CONTENT (6 by Volum	ne) OIL/WAT	ER		9.6														
METHY	LENE BLUE	CAPACITY	(ppb equiv.)		1.50	_							OPER	ATIC	NS SI	JMMA	RY			
pН			(Marchalt.)		9.5				4											
	INITY MUD	(Pm)							-IDRILL	ED 8.5"	TO 96	M.W	TPER	TRIP.	HOLE	IN GC	OD CC	THUN	ON	
ALKAL	INITY FILTR	ATE (Pf/M	f)		0.30 0	.30			TOOM.	PICKI:	D OP T	OP DI	SIVE 8	e BRI	AKO	JT 6 " I	AD II I	COLLA	.RS	
	IDE (mg/L) HARDNESS A	C C 1 C C 1 C C C C C C C C C C C C C C			400				RUN 7	" CASI	& DRII NG TO	7.1 M	GNG .	. RIG	UPFO)R 7" C	ASING	RUN		
SULPHI	TE (mg/L)	IS CALCIUM	(mg/L)		400				CIRCU	LATE 7	" CASII	vg w	. 01_1	OF CI	RC ()].	ZATINC	HEAL)		
K+ (mg									SET 7"	CASIN	G IN SL	IPS								
KCI (%					+				-											
PHPA (p	pb)				+	+			1											
FLUID BUILT	T& RECEIVED	ng (bbls)					 				C 11.1									
mix (drill wat			+	ISPOSED	S	UMMA	RY		1		Type	Hrs	Solids		rol Eq	uipmen IIrs	1			
mix (recirc fr		60	Desander	<u> </u>	INITIAL VO	LUME		91	Centr	iluge		十	Desand						Size	111
ll Water			Desilter Downhole		-		_		Degu	ISSET			Desilt	er		20		haker#1 haker#2	20/80	2-
ect Recirc Sum	IP.		Dumped	47	+ FLUID RE		<u>-</u>	60											20/80	+
er (eg Diesel)			Other	10	+ FLUID IN S			57											L	ــــــــــــــــــــــــــــــــــــــ
TOTAL R	FORIUPA				1	***************************************	L		Desander		Overi	low (p	rg)	U	idertla	v (ppg)		Outpu	t (Gal/Min.	.)
Product	T	60	TOTAL LOST	57	FINAL VOLUM	FΕ	Γ	94	Desilter						0					
gel	S 14.00	Start	Received	Used	Close		Cost			Solid	s Analy	sis								
rseal Fine	S 52.00	58		16	42	S	2	24.00				PB	%	1,	t Velo		aulies 8	Press	ure Data	
		† - 		24	<u> </u>	<u> </u>	1,2	48.00	High Grav	solids		7			pact	·				
								_	Total LGS					_	HP					
									Bentonite					H	18					
						+-		-	Drilled Soli Salt	ids		+		Bi	t Pres	Loss				
						+-		-	an Hrs		-					t Frac				
	 							_	Cir Hrs							lud Wt				
	 													EC			-			
	 							\Box						- Parts	A F FC	soure a	Shoe:			
						1		П												
		i i				_		-+												
						-		\dashv												
N ENGINEE		IERCE						1			Y COS			T		CUMI	ULATI	VE CO	ST	

OPERATOR REPORT FOR WELL NAME AN				\mathbf{EP}		. . .			- 1	Rig N	0	1	10	ud:		•	
REPORT FOR									- F	D			Sh	ua:		15-M	ar-
		s Oil				CO	TRACT	ΛP		Depth		98		to	98	Metr	es
WEEL HAME AN	Gera	rd Nicot					ORT FO				Engine		2				
						FIE	D				Freem						
DRILLING ASSEMBLY		es Pie # 1				Wild					ATIO			STA	TE		
BIT SIZE TYPE	JET SIZ		CASING	3	MUE		ME (BBL)	T -		Gipp	sland l			Victo			
DRILL PIPE TYPE			URFACE ET @	295 n 90 M		OLE	PITS	+	PI	IMP SIZI	CI	RCUL	ATIO	N DATA			
SIZE #	l.eugth		CT.	fi fi	TOTAL C	10 IRCULATE	74 SG VOL	 	5.5	X 10	Inche			CIRCULA PRESS			
ORILL PIPE TYPE SIZE HAV	Length		ET W ROD, or	M ft		84			UMP MO CLAR		1	ASSUME		BOTTO	OMS		
DULL COLL	ength	MUD TYP	VR Set ⊕	M		IN STORA	GE		BBL/ST		ST	K/MIN	95.0	TOTAL CI			
		ltrs	GEL					1	BBL/MI	IN	+	GAL/A	66	TIME (z	nin)		
			- OLL		AUTO DO									ANN V			
SAMPLE FROM					MUD PRO	PERTIE	1			ML	D PRC	PERT	TY SPI	ECIFICA	TIONS		_
TIME SAMPLE TA	KEN				.30			Weight			API F	iltrate				Filtrate	
DEPTH (ft) - (m)			Ме		8		KCI					Point			pli		
FLOWLINE TEMP	ERATURE		° C 0	F							PHPA				Sulphie	les	_
FUNNEL VISCOSI	TV (rantas)	Dr.	ppg/SG	8.40	1.008		\neg				<u>(</u>	OBSE	RVAT	IONS			_
PLASTIC VISCOSI	TY cP	API a	⁰ C	- 4	3		\neg										
YIELD POINT (lb	/100ft²)		°C	1	1		CIRC	CULATE	D ANI	D CON	DITION	HOL	Eron				
GEL STRENGTHS	(lb/100ft ²) 1	0 sec/10 min									١١١٥١	N HOL	a: rok	CASING	3		
FILTRATE API (c	c's/30 min)			3	3												
HPHT FILTRATE	(cc's/30 min)	ù	⁰ F				СЕМ	ENT WE	IGHT	15.3 L	BS/ GA	L.					
CAKE THICKNESS	API : HPH	(32nd in)	 -	1													
SOLIDS CONTENT				 -													
LIQUID CONTENT SAND CONTENT	(% by Volu	me) OIL/WA	TER														
METHYLENE BLUI	CARACITY			1.50)												
рН	CAPACITY	(ppb equiv.)									OPER.	ATIO	VS SU	MMARY			_
ALKALINITY MUD	(Pm)			8.0													
ALKALINITY FILTI	ATE (Pf/N	10		+													
CHLORIDE (mg/L)					0.80		RIG U	P FOR R	UNNII	NG OF	9 5/8" (CASIN	Je un	THE CHE	ULTING F		
TOTAL HARDNESS	AS CALCIUM	I (mg/L)		500				. 61.1411.1	N I I Q	OHIV	ENT S/	ヘトエドハ	AMILIE V	THURC	ULTING F	IEAD	
SULPHITE (mg/L)				400	-+		- CIRCU	m_{Λ} is Λ	ND CI	EMEN.	TING T	MSPL.	ACE	TING,			
K+ (mg/L)				 			RIG D	OWN CE	MENT	ГЕQUI	PMENT	r					
KCI (% by Wt.) PHPA (ppb)				 													
THEA (ppn)							\dashv										
LUID BUILT & RECEIVED		Mud Account															
ix (drill water)		+	DISPOSED	:	SUMMAR	١.	-	1	Type	Hrt	Solids (Contro	l Equi				_
x (recirc from sump)		Desander Desilter		INITIAL V	OLUME	94	Cent	rifuge		-		Con	es	Hrs		Size	
Vuter		Downhole	·				Deg	usver		-+	Desander				Shaker #1	20/80	,
Recirc Sump		Dumped	·	+ FLUID RE					\dashv	-+	Desilter	+-			Shaker #2	20/80	
(eg Diesel)		Other	10	-FLUID LOS	***************************************	10									L	L	
TOTAL				+ FLUID IN	STORAGE				Over	flow (pp	g)	Unde	erflow (DD#)	0	t (Gal/M	
TOTAL RECEIVED		TOTAL LOST	10	FINAL VOLU	ME	Γ 0.	Desander						0		varpa	(Cany)	ın.)
roduct Price	Start	Received	Used	Close		84 C	Desilter						0				
	ļ					Cost	+	Solids	Analy	'sis		Т	Bit F	Ivdraulie	es & Pressi	tro Doc	
	ļ				+		Wish C			PPB	%	Jet '	Velocit	y		are Dat	<u> </u>
	 						High Grav					Imp	act for	ce			_
	 						Bentonite					НН	Р				_
	 						Drilled Soli	ids	+			HSI					_
							Salt		+	+			ress L				_
							n à Hrs		+					rac Pres	s		_
							K w Hrs						v. Muc	i Wt.			
												ECD					_
					-							wiax	Pressu	re d Sho	ie :		_
					+												
					-												
		I			j.												

R	MN		\mathbf{D}	RI	LLI	IN	G	\mathbf{F}	LT	JID)	- art			1				
Print.		م م									}	Report			Dat			9-Mar-2	
Onlli	ng Flui	ias			RE		Jr	K J	L		1	Rig No		1	Spu			5-Mar-2	003
OPERA	TOR		Lakes Oil	1				T CC	NTRA	CTOP		Depth Siden F		98	t	0 98	N	Actres	
REPOR	T FOR		Gerard N					_	PORT			Sides E							
WELL	NAME AN	D No							ELD	- FUR		Peter Fi				STATE			
			Patties Pic					Wil	ldcat			Gippsl				Victoria			
DRILLING A	ASSEMBLY TYPE	 '	JET SIZE	7" SURFA	CASING				UME (B				CII		ATIO	N DATA			
				SET @		90 M		IOLE 10	15	ITS 55		PUMP SIZE X 10	Inches			CIRCULATION PRESS (PSD			
SIZE	#	Length	Mtrs	INT. SET @		ft M	TOTAL C	CIRCULAT	TING VOL.		PUMP M CLA	MODEL		ASSUMED		BOTTOMS			psi
DRILL PIPE SIZE	HW	1.ength	Mtrs	PROD. : LNR Se		ft M		IN STOR			BBIJS		STE	K/MIN	5.0	TOTAL CIRC.			mir
DRILL COLLA	R SIZE (")	Length		MUD TYPE							BBL/N	MIN	+-	GAL/MI	66 IN	TIME (min) ANN VEL.	DP		mir
			Mtrs		GEL		- 11 7N PI	· ^nepg				2.77				(ft/min)	DCs	-	
SAMP	LE FROM						MUD PR	ROPERT	IES	Mud Weight	he	MU		OPERT Filtrate	Y SP	ECIFICATI			
	SAMPLE TA				-		0.00	+		Plastic Vis	<u> </u>			Point			HPHT I	iltrate	
	H (ft) - (m)				Metres	s 9	98			KCI			PHP.				Sulphite	8	
FLOW WEIGI	LINE TEMI	PERAI	TURE		°C °F	I			\Box					OBSE	RVAT	TIONS			
	EL VISCOSI	ITY ((sec/qt) API	rā	ppg / SG	8.40	1.008			4 carent	^^ V T/	· · · · · · · · · · · · · · · · · · ·							
PLAST	ric viscos	SITY	cP @	·	°C		11	 		OF FRESH			ID Pita	S Witr	TRU	JCK LOAD			
	POINT (II					1-	14			1	1 ***.	EX							
			(100ft ²) 10 sec	c/10 min		2	2												
	ATE API (FILTRATE				o F.	 		 		1									
CAKE '	THICKNES	SS AP	РІ : НРНТ (З		г	1		-		1									
SOLID	S CONTENT	T (%	by Volume))					<u> </u>	1									
			6 by Volume)	OILWATE	žR					l									
	CONTENT YLENE BLU		y Vol.) PACITY (p	L		1.5	50	<u> </u>					OPER	RATIO	NS S	UMMARY			
рН	I LEIVE DES	/E CA.	PACITY	opb equiv.)		8.0		 											
ALKAL	LINITY MUI		Pm)			0	"			PREPARE NIPPLE UP			FOR E	3RADE	ENTHE	AD			
	LINITY FILT		E (Pf/Mt)			0.50	0.80			MIPPLE UP			KILL	FLOW	LINE	;			
	RIDE (mg/I L HARDNES		CTIM			500				1	-	Na	10	Ligita .	Linve				
	HARDNES IITE (mg/L		ALCIUM	(mg/L)		400	0			RESTABLI			CIA						
K+ (m		'				-				MIPPLE UP			p		- 201				
KCl (%	% by Wt.)									MAKE OF	COLLA	AR, KEA	DY, K	UN IN	IO TE	EST BOP RA	.MS		
PHPA (րրհ)									I									
FLUID BUIL	LT & RECEIVI	ED	Mu	ud Accountin						i			Solid			quipment			
remix (drill w				Desander Desander	SPUSED	INITIAL	SUMM.				Typ	pe Hrs		r.	ones	Hrs	<u> </u>	Size	Hrs
remix (recirc f	••••••			Desilter		1Stress	VOLC 31.	I	84	Centrifuge Degusser			Desar		-		Shuker#		\bot
rill Water			100	Downhole		+ FLUID	RECEIVE	ED	100	1715	+		Desi	iter	-		Shaker #7	2 20/80	+
ther (eg Diesel)	•••••	<u>-</u>		Dumped		-FLCID L	OST		19	<u> </u>			Ь				Ĺ		
ther (eg Diesel)	J			Other	19	+ FLUID	IN STOR	AGE	\Box			Overflow ((ppg)	T'		ow (bba)	Out	put (Gal/Mir	a.)
TOTAL	RECEIVED		100	TOTAL LOST	19	FINAL VOI	лиме	ſ		Desander Desilter					0				_
Product	Price	•	Start	Received	Used	Close		Cus	+		Salidy /	Analysis	1						
	T	\Box							<u>"</u>		30ttus	Analysis PPB	%	-	et Vel	Bit Hydraulic locity	es & Pres	sure Data	
		+	+						I	High Grav soli	lids		<u> </u>	_		t force			
		+								Total LGS				Н	ΉP				
	+	+			+		-+			Bentonite		1-	<u> </u>		ISI				
							+			Drilled Solids Salt		+				ss Loss			
	<u> </u>	4					1			n a Hrs		+				eat Frac Pres Mud Wt.	SS		
							\Box			K # Hrs		 			Quiv. CD	Wide vv.			
····		+							\rightarrow					-		ressure à Sh	10e :		
							-+		-										
		工				——	-		+										
		工					1		+		DAILY	COST	, –	\neg		CUMIII			
TY ENGINE							\Box		工		D			_		CUMULA	Alivec	OSI	
MN ENGINI	EER KE	EN PIE	.RCE		CITY	A	delaide (Office						TELEP	HON	E	08 83	338 7266	

P	MN)RT	T . T . 1	IN	\overline{C}	F	T 1	UID												
												Report	#	8	Dai	e :	20)-Mar-2	:003			
Orillin	g Flu	id.	5		RI	P	\mathbf{O}	\mathbf{R}'	Г		F			No 1 Spud:			15-Mar-2003					
OPERAT				···								Depth		98	to 226 Metres							
REPORT			Lakes C							ACTOR		Sides E	ngine	ering		_						
WELLN		D N	Gerard	Nicot				_	REPORT FOR			Peter Freeman										
			Patties 1	Pic # 1		- 1	ELD 'ildeat		LOCATION					STATE								
DRILLING ASSEMBLY JET SIZE CASING							MUD			(BRL)		Gipps										
BIT SIZE	TYPE 7" SURFACE SET @				195 ft	HOLE	1	PITS					_A 110									
DRILL PIPE 1 SIZE 3.5	TYPE	Lengt		INT.		90 M	TOTAL	25 CIRCUL	ATING VO	110	5.5 X 10 PUMP MODEL		ASSUMED EF		n eee	CIRCULATI PRESS (P:	SI)					
DRILL PIPE	G# 27 Mtrs SET@ TYPE Length PROD. or				M	IN ST	135 DRAGE		CLARK BBLSTK		80.0		80.0).0 UP (min)								
SIZE DRILL COLLAR	HW SIZE (")	Mtrs LNR Set @ Length MUD TYPE			М						STK/MIN			TOTAL CIRC. TIME (min)								
4.75		83	Mtrs						BBL	/MIN		GAL/	MIN	ANN VEI	DP		٦					
CAMPI	F FD O14						MUD P	ROPER	TIES			MU	D PRO	OPER	TY SP	ECIFICA?		IONS				
	E FROM	AKE	'N				L	\perp		Mud Weight				Filtrate		ECHICA	HPHT Filtrate					
	(ft) - (m)		,14		Metr	4.			Plastic Vis			Yield Point										
	INE TEM		ATURE		°C °F					KCI			PHP				Sulphites	Sulphites				
WEIGH					ppg / SG	8.50	1.020	,		-		OBSERVATIONS										
	VISCOS			I â	°С	3	6			INITIALLY BUILT MUD TO 2.5 % KCL AND STARTED DRILLING.												
	C VISCOS POINT (II				⁰ C					ADDING PAC L TO GIVE ADDITIONAL PROPERTIES												
			b/100ft²) 10 :	ear/10 min		9			-,	TREATED MUD TO CONTROL CEMENT CONTAMNATION												
FILTRA	TE API (cc's/	30 min)			3		+														
HPHT F	LTRATE	(cc	's/30 min) 'ā		⁰ F	<u> </u>		+-														
CAKE T	HICKNES	S A	АРІ : НРНТ	(32nd in)		1			† .													
	CONTENT		% by Volum]													
	ONTENT	`		e) OIL/WAT	ER		↓															
				(ppb equiv.)		1.0	┼		-		,	OPE	RATIO	ONS SI	JMMARY							
pН						9.5	5	-		PRESSURE	TEST	l BB v DB	רווא ה ז.	CHA	ızı:		*					
	NITY MUI		(Pm)						PRESSURE TEST BRADIN AND CHOKE RUN IN BHA AND DRILLED OUT CEMENT SHOE AND PLUG													
	DE (mg/l		TE (Pf/M	f)		0.50	0.90			DRILL AHEAD TO 226M												
			CALCIUM	(mg/L)		400		ļ		_												
	E (mg/L			,		717	 		-													
K+ (mg/								_		1												
KCI (% PHPA (pp																						
rttrA (pp	0)			And Ammond																		
FLUID BUILT	& RECEIVE	ED		Aud Accounting	ig (bbis) ISPOSED	т	VL\R\		4	Туре					uipment							
emix (drill wate	r)		30	Desander		INITIAL VOLU				Centrifuge		pe Hes			Cones	Hrs	ļ	Size	Hr			
emix (recirc fro	tn sump)			Desilter .						Degusser			Desai Desi				Shaker #1	20/80	12			
ill Water rect Recirc Sump				Downhole	Downhale 5		RECEIV	ED	30		_		123.51				Shuker #2	20/80	12			
her (eg Diesel)				Duniped Other		•FLUID L	·····	······	10													
					5	+ FLUID I	N STOP	RAGE	<u></u>	Desander	_	Overflow (PPg)	1	nderflo		Outpu	t (Gal/Min	1.)			
TOTAL RE	CEIVED		30	TOTAL LOST	10	FINAL VOL	UME		135	Desilter	+				0							
Product	Price		Start	Received	Used	Close	,		ost		ilids -	A nalveie			0 D		1					
IC Pac-LA		7.50	10		l	9		S	177.50		Solids An		PPB %		let Veld		lics & Pressure Data					
foamer T	 	5.00 9.75	80		2	2	$\overline{}$	Ś	290.00	High Grav solid	s		+		mpact							
la Ash	 	3.00	3		20	60		\$		Total LGS					ННР							
	5 28.			I.		2		S	28.00	Bentonite		-			HSI							
										Salt	Orilled Solids				Bit Press Loss							
	 	_								n a Hrs			+		CSG Seat Frac Press							
										a Hrs						Equiv. Mud Wt. ECD						
		\dashv					_								Max Pressure a Shoe:							
		+																				
							+															
		\dashv								D.	AILY	COST		_	CUMULATIVE COST							
N FNCINEE	D I/C	N D	EDCE		CITY							0.50		+				131				
IN ENGINEE	r KE	N PI	ERCE		Ad	lelaide	Office					7	FLEE	\$3,377.50								

CUMULATIVE COST \$3,732.25

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R	MN		D	RII	LI	N	G	\mathbf{F}	LU	JII	D	Ren	ort#	9	Date	· :	21-	Mar-200	3			
Drilling Fluids RE							PORT					<u> </u>	Rig No		Spu			15-Mar-2003				
												-			to			Metres				
OPERATO)R		Lakes Oil				СО	NTRA	CTOR		<u> </u>		226 incering		270	ivic	tics					
REPORT	FOR		Gerard Ni		****	·······		PORT				er Free	<u> </u>									
WELL NA	ME AND		FIELD							OCAT			STATE									
		Patties Pic	Wildcat						Gi	ppslan	nd Basin											
DRILLING ASS	MUD VOLUME (BE																					
1	REED	14	14 12	12 7" SURFACE 295 SET ⊕ 90						TS 10	5.5	PUMP 5 X		Inches		CIRCULATION PRESS (PSI)		100				
		ngth	207	INT. SET #		ft	TOTAL C	IRCULA	TING VOL.		PUMP MODEL			ASSUMI	O EFF	BOTTOMS		300	psi			
DRILL PIPE T	G# YPE Le	ength	207 Mirs	PROD. o		M IN S			N STORAGE			JARK USTK		STK/MIN	80.0	UP (min) TOTAL CIRC.		mir				
SIZE DRILL COLLAR S	HW Lee	ngth	Mtrs	1			L					0935		GAL/	48	TIME (min)			mir			
4.75					KCI Pac					BBL/MIN 3.59			İ	GAL/	151	ANN VEL. (ft/min)	DP DCs		1			
						MUD PROPERTIES							MUD	PROPER		ECIFICATI						
SAMPLE						FL				Mud Weig					e		HPHT Filtrate					
	MPLE TA	KEN					.00				Vis			Yield Point			pH Sulphites					
	(ft) - (m)	EDAT	UDE		Metres	25	00	ļ	T -	KCI				РПР.А								
WEIGHT	NE TEMP	EKAI	UKE		°C °F ppg/SG	8.90	1.068			┨			•	OBS	ERVAT	TIONS						
		ry 6	sec/qt) API	ā	°C		7	-		DILU	TED TO	FO MAINTAIN MUD WEIGHT.										
	VISCOSI	<u> </u>			°C					_	4	L , PAC R TO GIVE ADDITIONAL PROPERTIES.										
YIELD P	OINT (lb.	/100ft	²)			3				1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					W. I KOI EK	11123.					
GEL STR	ENGTHS	(lb/1	00ft ²) 10 sec	:/10 min		3	3	 	T -	1												
FILTRA	E API (c	c's/30	min)							1												
	LTRATE				° F																	
			I: HPHT (32nd in)		1		<u> </u>														
		`_	by Volume)	011 011																		
	NTENT			OIL/WATE	К																	
		<u> </u>	PACITY (anh equiv)		1.0	19()			OPERATIONS SUMMARY												
рН				spo equit.y		9.	0	ļ		TRIP IN, DRILLED AHEAD FROM 226M TO 290M												
ALKALI	NITY MUD	(P	m)			-				PULLED BACK TO 245 M. CIRCULATED 3 HRS FOR HOLE GAGE												
ALKALI	NITY FILT	RATI	E (Pf/Mf)		-	0.50	0.90			TRIPPED IN TO 290M , CIRCULATED.												
CHLORI	DE (mg/L	.)				5,5	00			TRIPPED OUT TO 245 M, CIRCULATED HOLE												
			CALCIUM	(mg/L)		600				4												
	E (mg/L)									4												
K+ (mg/										1												
KCI (% by Wt.) PHPA (ppb)							0	<u> </u>		Į												
1111 A ()/J			М	ud Accountin	g (bbls)					-				6 11 6								
FLUID BUILT	& RECEIVE	(1)		FLUID DI			SUMN	LARY		-		Type Hrs		Sonds Co	Cones	quipment	7	Size	Hr			
Premix (drill wate	er)		30	Desander		INITIA	L VOLUN	1E	135	Cer	ntrifuge	f	-	Desander	-		Shaker #1	20/80	12			
mix (recirc fro	m sump)			Desilter			***************************************	***************************************		De	gusser			Desilter	1		Shaker #2	20/80	12			
Drill Water			20	Downhole	5	+ FLUIO	RECEIV	.ED	50						1			İ	+			
Direct Recirc Sum	P	<u> </u>		Dumped		-FLCID	LOST		40								*	-t				
Other (eg Diesel)				Other	35	+ FLUID	IN STO	RAGE				Ove	erflow (p	pg)	Underf	low (ppg)	Outp	at (Gal/Min.	.)			
TOTAL R	ECEIVED		50	TOTAL LOST	40	FINAL VO	MUNIE			Desando						0						
Product	Price	\dashv	Start	Received	Used				145	Desilter		<u> </u>				0	<u> </u>					
AMC Pac-R		7.50	20	Merrica	1	Clo 15		s	177.50	-	Solic	ls Ana		%	_	Bit Hydrau	lics & Pres	sure Data				
CT		9.75	60		9	51		s		High Gr	av solids		PPB		_	docity						
									177.73							ct force						
										Total LGS Bentonite					HSI	IHP						
										Drilled Solids						Press Loss						
	-	\Box								Salt					CSG Seat Frac Press							
	-									n <i>a</i> fI	rs				Equiv. Mud Wt.							
	_	_								Ka II	K a Hrs				ECD							
	-	\dashv													Max F	ax Pressure a Shoe:						
	 	-								<u> </u>												
						 			i													

Adelaide Office

CITY

RMN ENGINEER

KEN PIECE

DAILY COST

12

12

Adelaide Office

651.75

Total LGS

Bentonite

n w Hrs

Kä Hrs

DAILY COST

\$1,574.25

Salt

Drilled Solids

HHP

HSI

ECD

TELEPHONE

Bit Press Loss

Equiv. Mud Wt.

CSG Seat Frac Press

Max Pressure a Shoe:

CUMULATIVE COST

\$5.307.00

08 8338 7266

Caustic Soda

RMN ENGINEER

19.75

KEN PIERCE

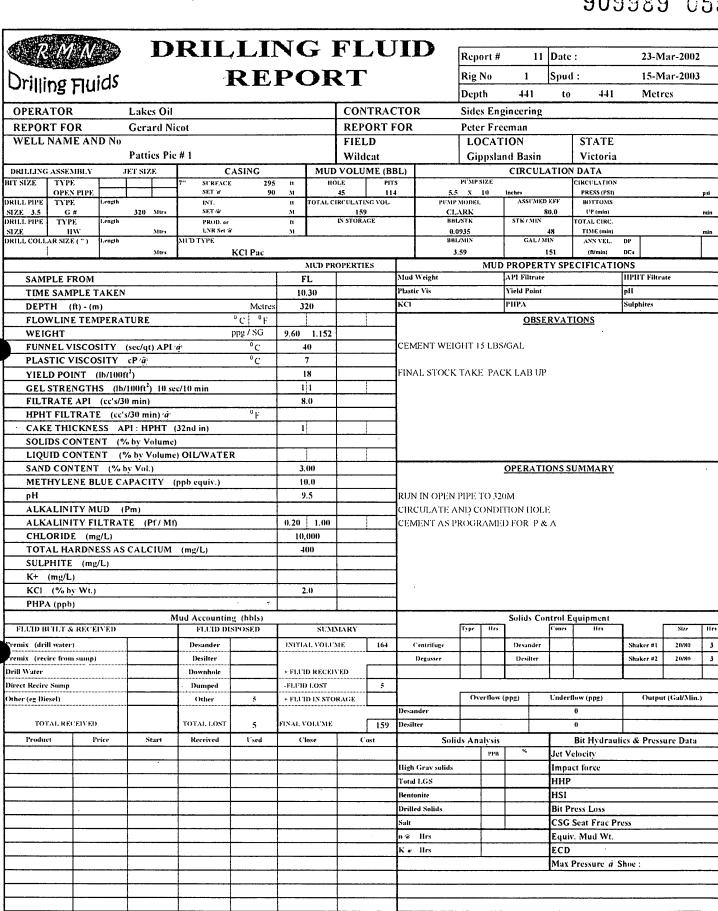
51

33

CITY

18

DRILLING FLUID Report # 11 Date: 23 Mar 2003																							
								, <u>I</u> , J	Report #			11	Date	::	23	23-Mar-2002							
Drillin	ng Flui	ds			P(ЭF	T.	•			Rig No		1	Spu	Spud:		15-Mar-2003		;				
										Depth			441	to 441 Metres									
OPERA			Lakes Oil					NTRAC		₹			incering										
REPOR	Γ FOR NAME AN	D No	Gerard Ni				ORT	FOR		Peter				1 00 . 00									
WELLI	MANIE AN	D NO	Patties Pie			FIELD Wildcat				LOC		_		STATE Victoria									
DRILLING A	ASSEMBLY	JET SIZE		MUE		JME (BI	Gippsland			CIRCUI													
								DLE	PIT	S PUMP SIZE						CIRCULATION							
DRILL PIPE	TYPE	Length	11	INT.			TOTAL C	45 IRCULAT	114 PLATING VOL		5.5 X 10 PUMP MODEL		<u>'</u>	ASSUMED EFF		BOTTOMS	ps		psi				
SIZE 3.5 DRILL PIPE	G# TYPE	320 Mtrs SET # Length PROD. or			M ft	<u> </u>	159 IN STORAGE		CLARK BBL/STK					80.0	UP (min) TOTAL CIRC.	mlr		min					
SIZE DRILL COLLA	HW R SIZE (")	Length	Mtrs	LNR Set @		М	L			0.0935 BBL/MIN			48 GAL/MIN			TIME (min) ANN VEL.	DP			min			
	COLLAR SIZE (") Length MUD TYPE KC1 Pac										3.59				151	(ft/min)	DCs						
							MUD PR	OPERTI	IES			N		PROPER									
	LE FROM SAMPLE T	AKEN					.30			Mud V Plastic	Veight - Vis			API Filtrat Vield Point	•		HPHT Filtrate						
	H (ft) - (m				Metres		20			KCI	. 143			PHPA			Sulphite:						
	LINE TEM		TURE		⁰ C ⁰ F									OBS	ERVAT	IONS							
WEIG	нт				ppg/SG	9.60	1.152			1													
	EL VISCOS		(sec/qt) API	û	°C		0			CEM	ENT WEIG	GHT 15	LBS/	GAL									
	POINT (eP @	···	°C		8			EINA	L STOCK	TAKE	DAC	KTABİL)								
			100ft ²) 10 se	c/10 min		1			T	1	il brock	TAKE	inc	K LAD O									
	ATE API						.0			1													
	FILTRATE				° F]													
			PI: HPHT (1			<u> </u>	_													
			6 by Volume)	OIL/WATEI	?				T														
	CONTENT			, OLD WATER	<u> </u>	3.	00		<u>. </u>	OPERATIONS SUMMARY													
METH	YLENE BL	UE CA	PACITY (ppb equiv.)		10),0																
pН						9.	.5			RUN	IN OPEN	PIPE TO	320	M						ĺ			
	LINITY MU		Pm) TE (Pf/Mf)						1	CIRCULATE AND CONDITION HOLE													
CHLO		0.20	1.00 000			CEMENT AS PROGRAMED FOR P & A																	
			CALCIUM	(mg/L)			00																
SULPH	HTE (mg/	L)								1													
K+ (r										-													
KCI (PHPA	(% by Wt.)					2.	.0			-													
THE	(1910)		М	ud Accountin	g (bbls)					-				Solids Co	ntrol F	quipment							
FLUID BUI	LT & RECEP	VED		FLUID DE			SUM	LARY		1		Type	ltrs	Silla, Ci	Cones	Hrs	1	Г	Size	Hrs			
Premix (drill	water)			Desander		INITIAL VOLUM		1E 164		C	entrifuge			Desander			Shaker #	1	20/80	3			
remix (recirc	r from sump)			Desilter						12	egusser			Desilter			Shaker #	2	20/80	3			
Drill Water Direct Recirc S	umn			Downhole Dumped		+ FLUID RECEIV		TED 5		<u> </u>				LL									
Other (eg Diesc				Other	5	+ FLUID IN STO		RAGE	-	ł		Övert	low (p	(Pg)	Undert	low (ppg)	Ou	put (G	al/Min.)	,—			
				•			***************************************	••••••		Desand	der					0				ᅱ			
	L RECEIVED			TOTAL LOST	5	FINAL VOLUME		159		Desilter						0							
Product	Pri	ice	Start	Received	Used	Close		(,	ost		Solid	ls Analysis				<u>-</u>	cs & Pressure Data						
						<u> </u>							PPB		" Jet V					\dashv			
						+				High Grav solids Total LGS				Impa HHP	ct force								
											tal LGS ntonite				HSI								
											l Solids					ress Loss				ᅱ			
					-					Salt					CSG Seat Frac Press								
									n e						Equiv. Mud Wt.								
										Ká					ECD								
															Max Pressure 'a Shoe :								
															_					\dashv			
	_																						
											DA	ILY CO	ST				MULATIVE COST						
RMN ENGINEER KENPIERCE CITY							Adelaid	o Office		L						\$5,307.00							



Adelaide Office

CITY

RMN ENGINEER

DAILY COST

CUMULATIVE COST \$5,307.00

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