

115351

DAILY CHECKS	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial _____	Initial _____
(2) Detailed Inspection-Weekly (using checklist)	Initial _____	Initial _____
(3) H ₂ S Gas Posted (if required)	Initial _____	Initial _____
(4) Well License & Stick Diagram Posted	Initial _____	Initial _____
(5) Flare Lines Staked	Initial _____	Initial _____
(6) BOP Drills Performed	Initial _____	Initial _____
(7) Visually inspect SOPs - Flarelines & Degasser Lines	Initial _____	Initial _____
(1) Rig Site Health and Safety Meeting (one/crow/month)		Initial _____
(2) C.A.D.B.C. Rig Safety Inspection Checklist (one/crow/month)		Initial _____
(3) Mast Inspection Before Raising or Lowering		Initial _____
(4) Crown Saver Checked		Initial _____
(5) Mastline S.O.S. checked		Initial _____

[illegible][illegible]

TOTAL		DRILLING ASSEMBLY (At End of Tour)								BIT RECORD							MUD RECORD					
NO.			LENGTH	BIT NO.						MUD TYPE		☐ WATER BASED	☐ OIL BASED									
	BIT	O.D. mm																				
			m	SIZE	(mm)						TIME											
			m	IADC CODE							DENSITY											
			m	MFG.							FUNNEL											
			m	TYPE							VIS. - (S/L)											
			m	SERIAL NO.							W.L. (cm ³)											
			m	JETS	(mm)						pH											
			m	DEPTH OUT	(m)						MUD MATERIALS ADDED				SOLIDS CONTROL							
			m	DEPTH IN	(m)						PRODUCT	AMOUNT X UNIT			DESILTER							
			m	TOTAL METRES DRILLED	(m)									HOURS RUN	INTAKE DENSITY (g/cm ³)	OVERFLOW DENSITY (g/cm ³)	UNDERFLOW DENSITY (g/cm ³)					
			m	TOTAL HOURS RUN																		
			m	CUTTING STRUCTURE		B	Gage	ODC	Reason Pulled	Total Run m/hr.	CENTRIFUGE											
	D.P.	STANDS	m	T ₁	T ₀	MDC	LOC							HOURS RUN	INTAKE DENSITY (g/cm ³)	OVERFLOW DENSITY (g/cm ³)	UNDERFLOW DENSITY (g/cm ³)					
	D.P.	SINGLES	m																			
	KELLY DOWN		m	HOLE CONDITION																		
	TOTAL		m	HOLE DRAG																		
	WT. OF PG		m	TORQUE AT BOTTOM											HOURS RUN	INTAKE DENSITY (g/cm ³)	OVERFLOW DENSITY (g/cm ³)	UNDERFLOW DENSITY (g/cm ³)				
	USE OF MUD		m	FILL ON BOTTOM (m)																		

METRES DRILLED						TIME LOG		DETAILS OF OPERATION IN SEQUENCE AND REMARKS					
FROM	TO	D.R.D. R.M.R. CODE-C	ROTARY R.P.M.	WT. ON BIT (1000 lbf)	FROM	TO	ELAP. TIME	CODE NO.					
					08:00	20:00	12		Lock up Rig, inspect Pipe				
CIRCULATION PRESSURE (kPa)		PUMP NO. 1		PUMP NO. 2									
		LINER SIZE (mm)	S.P.M.	LINER SIZE (mm)	S.P.M.								
REDUCED PUMP SPEED													
		@		@									
DEVIATION SURVEY													
DEPTH (m)	DEVIATION (°)		DIRECTION										
NOTES													
DRILLER SIGNATURE						BOILER HRS. RAN ph STACK TEMP.		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		M.A.C.P.	

DRILLING ASSEMBLY (At End of Tour)				BIT RECORD										MUD RECORD									
NO.	BIT	O.D. (mm)	LENGTH											MUD TYPE		☐ WATER BASED		☐ OIL BASED					
			m	BIT NO.								TIME											
			m	SIZE (mm)								DENSITY kg/m ³											
			m	IADC CODE								FUNNEL VIS. - (S/L)											
			m	MFG.								W.L. (cm ²)											
			m	TYPE								pH											
			m	SERIAL NO.																			
			m	JETS (mm)																			
			m	DEPTH OUT (m)								MUD MATERIALS ADDED		SOLIDS CONTROL									
			m	DEPTH IN (m)								PRODUCT		AMOUNT X UNIT		DESILTER							
			m	TOTAL METRES DRILLED												HOURS RUN		INTAKE DENSITY (kg/m ³)		OVERFLOW DENSITY (kg/m ³)		UNDERFLOW DENSITY (kg/m ³)	
			m	TOTAL HOURS RUN																			
	D.P.	STANDS	m	CUTTING STRUCTURE				B	Gage	ODC	Reason Pulled	Total Run m/hr.					CENTRIFUGE						
	D.P.	SINGLES	m	T ₁	T ₂	MOC	LOG										HOURS RUN	INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)			
KELLY DOWN			m	HOLE CONDITION																			
TOTAL			m	HOLE DRAG																			
WT. OF DC			/1000	TORQUE AT BOTTOM														HOURS RUN					
WT. OF COLUMNS			/1000	FILL ON BOTTOM (m)														INTAKE DENSITY (kg/m ³)					
																		OVERFLOW DENSITY (kg/m ³)					
																		UNDERFLOW DENSITY (kg/m ³)					

METRES DRILLED						TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS			
FROM	TO	D.P.D. B.M.P. CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 LBS)	FROM	TO	ELAP. TIME	CODE NO.					
					08:00	20:00			Inspect Pipe				
CIRCULATION PRESSURE (kPa)		PUMP NO. 1		PUMP NO. 2									
		LINEAR SIZE (mm)	S.P.M.	LINEAR SIZE (mm)	S.P.M.								
REDUCED PUMP SPEED													
		@		@		March 6, 1999.							
DEVIATION SURVEY													
DEPTH (m)		DEVIATION (°)		DIRECTION									
NOTES													
DRILLER SIGNATURE						BOILER		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		M.A.C.P.	
						HRS. RAN	ph	STACK TEMP.					

DRILLING ASSEMBLY (At End of Tour)							BIT RECORD						MUD RECORD			
NO.	BIT	D.D. rwh	LENGTH	B.T. NO.			MUD TYPE	☐ WATER BASED	☐ OIL BASED							
			m	SIZE (mm)			TIME									
			m	IADC CODE			DENSITY kg/m ³									
			m	MFG.			FUNNEL VIS. - (S/L)									
			m	TYPE			W.L. (cm")									
			m	SERIAL NO.			pH									
			m	JETS (mm)												
			m	DEPTH OUT (m)			MUD MATERIALS ADDED		SOLIDS CONTROL							
			m	DEPTH IN (m)			PRODUCT	AMOUNT X UNIT	DESILTER							
			m	TOTAL METRES DRILLED (m)					HOURS RUN	INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)				
			m	TOTAL HOURS RUN												
	O.P.	STANDS	m	CUTTING STRUCTURE			G	Gage	ODC	Reason Pulled	Total Run m/hr.	CENTRIFUGE				
	O.P.	SINGLES	m	T ₁	T ₂	MDC	LOC					HOURS RUN	INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)	
	KELLY DOWN		m	HOLE CONDITION												
	TOTAL		m	HOLE DRAG												
WT.OF DC			1000 gN	TORQUE AT BOTTOM								HOURS RUN	INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)	
WT.OF DRAG			1000 gN	PULL ON BOTTOM (m)												

METRES DRILLED					TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS				
FROM	TO	DR. / RM. / CORE-C	ROTARY R.P.M.	WT. ON BIT (1000-GR)	FROM	TO	ELAP. TIME	CODE NO.					
CIRCULATION PRESSURE (kPa)	PUMP NO. 1		PUMP NO. 2										
	LINEP. SIZE (mm)	S.P.M.	LINEP. SIZE (mm)	S.P.M.									
REDUCED PUMP SPEED													
	@		@										
DEVIATION SURVEY													
DEPTH (m)	DEVIATION (°)		DIRECTION										
NOTES													
DRILLER SIGNATURE					BOILER HRS. RAN ph		STACK TEMP.		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		M.A.C.P.

115410

LICENCE NO.:	WELL NAME AND NO.:
OPERATOR:	CONTRACTOR:
SURFACE LOCATION:	UNIQUE ID.:
SIGNATURE OF OPERATOR'S REPRESENTATIVE:	SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS	O.P.R.	R.M.
(1) Daily Walk Around Inspection	Initial _____	Initial _____
(2) Detailed Inspection-Weekly (using checklist)	Initial _____	Initial _____
(3) H'S Signs Posted (if required)	Initial _____	Initial _____
(4) Wet Location & Stick Diagram Posted	Initial _____	Initial _____
(5) Flame Lines Staked	Initial _____	Initial _____
(6) BOP Drills Performed	Initial _____	Initial _____
(7) Visually inspect BOP's - Flowlines & Degassur Lines	Initial _____	Initial _____
(1) Rig Site Health and Safety Meeting (once a month)	Initial _____	Initial _____
(2) C.A.O.D.C. Rig Safety Inspection Checklist (once a month)	Initial _____	Initial _____
(3) Mast Inspection Before Raising or Lowering	Initial _____	Initial _____
(4) Green Saver Checked	Initial _____	Initial _____
(5) Motor Vibs checked	Initial _____	Initial _____

[illegible]

TIME - HRS	CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTALS	SHALE SHAKER(S)		RENTALS/SERVICES		MORN	DAY	EVE	TOTAL
		OPER. HND UP & TEAR DOWN	DRILL ACTUAL	REAMING	CORING	CORED MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV. SURVEY	WIRE LINE LOGS	RUN CASE & CEMENT	WAIT ON CEMENT	HEAVY DR. B.O.P.	TEST B.C.P.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MTG.	NO	TYPE												
MORN																													SCREENS CHANGED ☐ YES ☐ NO							
DAY																													TOP	TOP						
EVE																													MIDDLE	MIDDLE						
TOTAL																													BOTTOM	BOTTOM						

DRILLING ASSEMBLY (At End of Tour)				BIT RECORD										MUD RECORD			
NO.	BIT	O.D. mm	LENGTH	BIT NO.						MUD TYPE					☐ WATER BASED	☐ OIL BASED	
				SIZE (mm)						TIME							
				IADC CODE						DENSITY kg/m ³							
				MFG.						FUNNEL VIS. - (S/L)							
				TYPE						W.L. (cm ³)							
				SERIAL NO.						pH							
				JETS (mm)													
				DEPTH OUT (m)						MUD MATERIALS ADDED		SOLIDS CONTROL					
				DEPTH IN (m)						PRODUCT	AMOUNT X UNIT	DESILTER					
				TOTAL METRES DRILLED (m)								HOURS RUN	INTAKE DENSITY (g/cm ³)	OVERFLOW DENSITY (g/cm ³)	UNDERFLOW DENSITY (g/cm ³)		
				TOTAL HOURS RUN													
	D.P.	STANDS		CUTTING STRUCTURE					B	Gage	ODC	Reason Pulled	Total Run m/hr.	CENTRIFUGE			
	D.P.	SINGLES		T ₁	T ₂	MDC	LOC							HOURS RUN	INTAKE DENSITY (g/cm ³)	OVERFLOW DENSITY (g/cm ³)	UNDERFLOW DENSITY (g/cm ³)
KELLYDOWN				HOLE CONDITION													
TOTAL				HOLE DRAG													
WT. OF DC			1000 gal	TORQUE AT BOTTOM										HOURS RUN	INTAKE DENSITY (g/cm ³)	OVERFLOW DENSITY (g/cm ³)	UNDERFLOW DENSITY (g/cm ³)
WT. OF STRING			1000 gal	FILL ON BOTTOM (m)													

METERS DRILLED						TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS	
FROM	TO	D.R.D. R.M.R. CORE-C	ROTARY R.P.M.	WT. ON BIT (1000' DR)		FROM	TO	ELAP TIME	CODE NO.		
						08:00	20:00	12	1	Load out Rig to haul to New racksite for Canadian Forest	
CIRCULATION PRESSURE (KPa)	PUMP NO. 1		PUMP NO. 2								
	LINE SIZE (mm)	S.P.M.	LINE SIZE (mm)	S.P.M.							
REDUCED PUMP SPEED											
@			@								
DEVIATION SURVEY											
DEPTH (m)	DEVIATION (°)		DIRECTION								
NOTES											
DRILLER SIGNATURE						BOILER		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC	
Garry Patrick						HRS. RAN	ph	STACK TEMP.			M.A.C.P.

DRILLING ASSEMBLY (At End of Tour)				BIT RECORD							MUD RECORD					
NO.	BIT	O.D. mm	LENGTH	BIT NO.					MUD TYPE		☐ WATER BASED	☐ OIL BASED				
			m	SIZE	(mm)					TIME						
			m	IADC CODE						DENSITY kg/m ³						
			m	MFG.						FUNNEL VIS. - (S/L)						
			m	TYPE						W.L. (cm ³)						
			m	SERIAL NO.						pH						
			m	JETS	(mm)											
			m	DEPTH OUT	(m)					MUD MATERIALS ADDED		SOLIDS CONTROL				
			m	DEPTH IN	(m)					PRODUCT	AMOUNT X UNIT	DESILTER				
			m	TOTAL METRES DRILLED	(m)							HOURS RUN	INTAKE DENSITY (kgm ⁻³)	OVERFLOW DENSITY (kgm ⁻³)	UNDERFLOW DENSITY (kgm ⁻³)	
			m	TOTAL HOURS RUN												
	O.P.	STANDS	m	CUTTING STRUCTURE				B	Gage	ODC	Reason Pulled	Total Run m/hr.	CENTRIFUGE			
	D.P.	SINGLES	m	T ₁	T ₂	MDC	LOC						HOURS RUN	INTAKE DENSITY (kgm ⁻³)	OVERFLOW DENSITY (kgm ⁻³)	UNDERFLOW DENSITY (kgm ⁻³)
	KELLY DOWN		m	HOLE CONDITION												
	TOTAL		m	HOLE DRAG												
WT. OF DC			1000 gals	TORQUE AT BOTTOM									HOURS RUN	INTAKE DENSITY (kgm ⁻³)	OVERFLOW DENSITY (kgm ⁻³)	UNDERFLOW DENSITY (kgm ⁻³)
WT. OF STRING			1000 gals	FILL ON BOTTOM (m)												

METRES DRILLED					TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS			
FROM	TO	D.P.D. R.M.R CORE-C	ROTARY R.P.M.	WT. ON BIT (100G MBS)	FROM	TO	ELAP. TIME	CODE NO				
					0800	20:00	12	1	Load Trucks & unload Trucks at rock site.			
CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm) S.P.M.			PUMP NO. 2 LINER SIZE (mm) S.P.M.								
REDUCED PUMP SPEED												
	@		@									
DEVIATION SURVEY												
DEPTH (m)	DEVIATION (°)		DIRECTION									
					NOTES							
DRILLER SIGNATURE					BOILER HRS. RAN ph STACK TEMP.		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		M.A.C.P.	
Colin E. G.H.												

DRILLING ASSEMBLY (At End of Tour)				BIT RECORD										MUD RECORD								
NO.	BIT	O.D. (mm)	LENGTH	BIT NO.											MUD TYPE		☐ WATER BASED		☐ OIL BASED			
			m	SIZE	(mm)										TIME							
			m	IADC CODE										DENSITY								
			m	MFQ.											FUNNEL							
			m	TYPE											VIS. - (S/L)							
			m	SERIAL NO.											W.L. (cm ³)							
			m	JETS	(mm)										pH							
			m	DEPTH OUT	(m)										MUD MATERIALS ADDED		SOLIDS CONTROL					
			m	DEPTH IN	(m)										PRODUCT		AMOUNT X UNIT		DESILTER			
			m	TOTAL METRES DRILLED	(m)														HOURS RUN	INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)
			m	TOTAL HOURS RUN																		
	D.P.	STANDS	m	CUTTING STRUCTURE					B	Gage	ODC	Reason Pulled	Total Run m/hr.	CENTRIFUGE								
	D.P.	SINGLES	m	T ₁	T ₂	MDC	LDC											HOURS RUN	INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)	
	KELLYDOWN		m	HOLE CONDITION																		
	TOTAL		m	HOLE DRAG																		
WT. OF DC			1000 lb/H	TORQUE AT BOTTOM														HOURS RUN	INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)	
WT. OF STRING			1000 lb/H	FILL ON BOTTOM (m)																		

METRES DRILLED						TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS			
FROM	TO	D.R.D. R.M.B. C.D.R.E.C.	ROTARY R.P.M.	WT. ON BIT (1000 daN)		FROM	TO	ELAP. TIME	CODE NO.				
CIRCULATION PRESSURE (kPa)	PUMP NO. 1		PUMP NO. 2										
	LINER SIZE (mm)	S.P.M.	LINER SIZE (mm)	S.P.M.									
REDUCED PUMP SPEED													
	@		@										
DEVIATION SURVEY													
DEPTH (m)	DEVIATION (°)		DIRECTION										
NOTES													
DRILLER SIGNATURE						BOILER HRS. RAN		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		M.A.C.P.	
						ph		STACK TEMP.					

115409

LICENCE NO.:	WELL NAME AND NO.:
OPERATOR:	CONTRACTOR:
SURFACE LOCATION:	UNIQUE ID:
SIGNATURE OF OPERATOR'S REPRESENTATIVE:	SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS	OPRL	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H/S Signs Posted (If required)	Initial	Initial
(4) Well License & Stock Diagram Posted	Initial	Initial
(5) Flame Lines Stained	Initial	Initial
(6) BOP Drill Performance	Initial	Initial
(7) Visually Inspect BOP's - Flarelines & Debrisair Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (line crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

[illegible][illegible]

DRILLING ASSEMBLY (At End of Tour)						BIT RECORD								MUD RECORD				
NO.	BIT		O.D. mm	LENGTH									MUD TYPE	☐ WATER BASED	☐ OIL BASED			
				m	BIT NO.								TIME					
				m	SIZE (mm)								DENSITY kg/m ³					
				m	IADC CODE								FUNNEL VIS. - (S/L)					
				m	MFG.								W.L. (cm ³)					
				m	TYPE								pH					
				m	SERIAL NO.													
				m	JETS (mm)													
				m	DEPTH OUT (m)								MUD MATERIALS ADDED		SOLIDS CONTROL			
				m	DEPTH IN (m)								PRODUCT	AMOUNT X UNIT	DESILTER			
				m	TOTAL METRES DRILLED (m)										HOURS RUN	INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)
				m	TOTAL HOURS RUN													
				m	CUTTING STRUCTURE				B	Gage	ODC	Reason Pulled	Total Run m/hr	CENTRIFUGE				
	D.P.	STANDS		m	T ₁	T ₂	MOD	LOC						HOURS RUN	INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)	
	D.P.	SINGLES		m														
KELLY DOWN				m	HOLE CONDITION													
TOTAL				m	HOLE DRAG													
WT. OF DC				1000 gals	TORQUE AT BOTTOM													
WT. OF STRING				1000 lbs	FILL ON BOTTOM (m)													

METRES DRILLED					TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS					
FROM	TO	DRD D.M.P CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 LBS)	FROM	TO	ELAP. TIME	LOG NO.						
					08:00	20:00	12	1	load out power end of rigged tanks					
CIRCULATION PRESSURE (kPa)		PUMP NO. 1		PUMP NO. 2										
		LINER SIZE (mm)	S.P.M.	LINER SIZE (mm)	S.P.M.									
REDUCED PUMP SPEED														
		@		@										
DEVIATION SURVEY														
DEPTH (m)		DEVIATION (°)		DIRECTION										
					NOTES									
					Held safety meeting prior to tear out									
DRILLER SIGNATURE					HRS. RAN		BOILER ph STACK TEMP.		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		M.A.C.P.	
Garry Patruik														

DRILLING ASSEMBLY (At End of Tour)				BIT RECORD										MUD RECORD																	
NO.	BIT	O.D. (mm)	LENGTH											MUD TYPE		☐ WATER BASED		☐ OIL BASED													
			m	BIT NO.								TIME																			
			m	SIZE (mm)								DENSITY kg/m ³																			
			m	IADC CODE								FUNNEL VIS. - (S/L)																			
			m	MFG.								W.L. (cm ³)																			
			m	TYPE								pH																			
			m	SERIAL NO.																											
			m	JETS (mm)																											
			m	DEPTH OUT (m)								MUD MATERIALS ADDED		SOLIDS CONTROL																	
			m	DEPTH IN (m)								PRODUCT		AMOUNT X UNIT		DESILTER															
			m	TOTAL METRES DRILLED (m)												HOURS RUN		INTAKE DENSITY (g/cm ³)		OVERFLOW DENSITY (g/cm ³)		UNDERFLOW DENSITY (g/cm ³)									
			m	TOTAL HOURS RUN																											
	D.P.	STANDS	m	CUTTING STRUCTURE		T ₁		T ₂		MDC		LOC		B		Gage		ODC		Reason Pulled		Total Run m/hr.		CENTRIFUGE							
	D.P.	SINGLES	m																					HOURS RUN		INTAKE DENSITY (g/cm ³)		OVERFLOW DENSITY (g/cm ³)		UNDERFLOW DENSITY (g/cm ³)	
	KELLY DOWN		m	HOLE CONDITION																											
	TOTAL		m	HOLE DRAG																											
WT. OF DC			1000 lbm	TORQUE AT BOTTOM																		HOURS RUN		INTAKE DENSITY (g/cm ³)		OVERFLOW DENSITY (g/cm ³)		UNDERFLOW DENSITY (g/cm ³)			
WT. OF STRING			1000 lbm	FILL ON BOTTOM (m)																											

[illegible]

DRILLING ASSEMBLY (At End of Tour)						BIT RECORD							MUD RECORD					
NO.			LENGTH									MUD TYPE	☐ WATER BASED	☐ OIL BASED				
	BIT	O.D. mm	m	B.T. NO.														
			m	SIZE (mm)									TIME					
			m	IADC CODE							DENSITY kg/m ³							
			m	MFG.									FUNNEL VIS. - (S/L)					
			m	TYPE									W.L. (cm ²)					
			m	SERIAL NO.									pH					
			m	JETS (mm)														
			m	DEPTH OUT (m)									MUD MATERIALS ADDED		SOLIDS CONTROL			
			m	DEPTH IN (m)									PRODUCT		AMOUNT X UNIT			
			m	TOTAL METRES DRILLED (m)											HOURS RUN	INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)
			m	TOTAL HOURS RUN														
	D.P.	STANDS	m	CUTTING STRUCTURE				B	Gage	ODC	Reason Pulled	Total Run m/hr.						
			m	T _i	T _a	MDC	LOC						CENTRIFUGE					
	D.P.	SINGLES	m										HOURS RUN	INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)		
KELLY DOWN			m	HOLE CONDITION														
TOTAL			m	HOLE DRAG														
WT. OF DC			1000 gals	TORQUE AT BOTTOM														
WT. OF STRING			1000 gals	FILL ON BOTTOM (m)														

METRES DRILLED						TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS				
FROM	TO	D.R. RMR CORE-G	ROTARY R.P.M.	WT. ON BIT (1000/344)	FROM	TO	ELAP. TIME	CODE NO.						
					08:00	20:00	12.1		Disassemble sub, Load out trucks					
CIRCULATION PRESSURE (kPa)		PUMP NO. 1		PUMP NO. 2										
		LINER SIZE (mm)	S.P.M.	LINER SIZE (mm)	S.P.M.									
REDUCED PUMP SPEED														
		@		@										
DEVIATION SURVEY														
DEPTH (m)		DEVIATION (°)		DIRECTION										
DRILLER SIGNATURE														
						BOILER		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		M.A.C.P.		
						HRS. RAN	ph	STACK TEMP.						

115408

LICENCE NO.:	WELL NAME AND NO.:
OPERATOR:	CONTRACTOR:
SURFACE LOCATION:	UNIQUE ID.:
SIGNATURE OF OPERATOR'S REPRESENTATIVE:	SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection Weekly (using checklist)	Initial	Initial
(3) H/S Signs Posted (if required)	Initial	Initial
(4) Wall License & Stock Diagram Posted	Initial	Initial
(5) Floor Lane Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually Inspect BOP's - Farelinese & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (once/week/month)	Initial	Initial
(2) C.A.O. & C. Rig Safety Inspection Checklist (once/month)	Initial	Initial
(3) Mast Inspection Before Raising or Lowering	Initial	Initial
(4) Crown Saver Checked	Initial	Initial
(5) Motor Kolls checked	Initial	Initial

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TIME HRS	CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL	SHALE SHAKER(S)		RENTALS/SERVICES					
		ROD UP & TEAR DOWN	DRILL ACTUAL	REAMING	CORING	CEMENT MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV SURVEY	WIRE LINE LOGS	RUN CASE & CEMENT	WAIT ON CEMENT	NUDGE UP B.O.P.	TEST B.O.P.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DRL WORK	SAFETY MTG.	Top Drive							NO.	TYPE		MORNL	DAY	EVE	
	OPERL																																			
MORNL		3																										8	SCREENS CHANGED	☐ YES ☐ NO						
DAY																												8	TOP	TOP						
EVE																												8	MIDDLE	MIDDLE						
TOTAL																												24	BOTTOM	BOTTOM						

DRILLING ASSEMBLY (At End of Tour)				BIT RECORD										MUD RECORD			
NO	BIT		O.D. mm	LENGTH	BIT NO.						MUD TYPE		☐ WATER BASED ☐ OIL BASED				
				m	SIZE (mm)						TIME						
				m	IADC CODE						DENSITY kg/m ³						
				m	MFG.						FUNNEL VIS. - (S/L)						
				m	TYPE						W.L. (cm ²)						
				m	SERIAL NO.						pH						
				m	JETS (mm)												
				m	DEPTH OUT. (m)						MUD MATERIALS ADDED		SOLIDS CONTROL				
				m	DEPTH IN (m)						PRODUCT		AMOUNT X UNIT				
				m	TOTAL METRES DRILLED (m)								DESILTER				
				m	TOTAL HOURS RUN								HOURS RUN INTAKE DENSITY (kgm.) OVERFLOW DENSITY (kgm.) UNDERFLOW DENSITY (kgm.)				
	D.P.	STANDS		m	CUTTING STRUCTURE		B.	Gage	ODC	Reason Pulled	Total Run m/hr.	CENTRIFUGE					
	D.P.	SINGLES		m	T ₁	T ₂	MDC	LOC				HOURS RUN INTAKE DENSITY (kgm.) OVERFLOW DENSITY (kgm.) UNDERFLOW DENSITY (kgm.)					
KELLY DOWN				m	HOLE CONDITION												
TOTAL				m	HOLE DRAG												
WT. OF DC				1000 gph	TORQUE AT BOTTOM							HOURS RUN INTAKE DENSITY (kgm.) OVERFLOW DENSITY (kgm.) UNDERFLOW DENSITY (kgm.)					
WT. OF STRING				1000 gph	FILL ON BOTTOM (m)												

METRES DRILLED						TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS			
FROM	TO	D.R.D. H.M.S. C.C.R.C.	ROTARY R.P.M.	WT. ON BIT (1000 gms)	FROM	TO	ELAP. TIME	CODE NO.					
					08:00	05:00	5	22	Clean Tracks TEAR OUT TOP DRIVE				
					08:00			1	TEAR OUT Rig To MOVE				
					08:00		3		TEAR OUT RENTALS				
CIRCULATION PRESSURE (kPa)		PUMP NO. 1		PUMP NO. 2									
		LINER SIZE (mm)	S.P.M.	LINER SIZE (mm)	S.P.M.								
REDUCED PUMP SPEED													
		@		@									
DEVIATION SURVEY						THANKS FOR THE GOOD JOB							
DEPTH (m)	DEVIATION (°)	DIRECTION											
						Rig Released To MOVE							
						19-03-02 @ 0800 HOURS							
						For Bore							
NOTES						T.D.S.-							
DRILLER SIGNATURE						BOILER		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		M.A.C.P.	
						HRS. RAN	ph	STACK TEMP.					
						8	10	240					

DRILLING ASSEMBLY (At End of Tour)				BIT RECORD										MUD RECORD									
NO.	BIT	O.D. mm	LENGTH											MUD TYPE		☐ WATER BASED		☐ OIL BASED					
			m	BIT NO.								TIME											
			m	SIZE (mm)								DENSITY kg/m ³											
			m	IADC CODE								FUNNEL VIS. - (S/L)											
			m	MFG.								W.L. (cm ²)											
			m	TYPE								pH											
			m	SERIAL NO.																			
			m	JETS (mm)																			
			m	DEPTH OUT (m)								MUD MATERIALS ADDED		SOLIDS CONTROL									
			m	DEPTH IN (m)								PRODUCT		AMOUNT X UNIT		DESILTER							
			m	TOTAL METRES DRILLED (m)												HOURS RUN		INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)			
			m	TOTAL HOURS RUN														CENTRIFUGE					
	D.P.	STANDS	m	CUTTING STRUCTURE		T ₁	T ₂	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.			HOURS RUN		INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)		
	O.P.	SINGLES	m																INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)		
KELLY DOWN			m	HOLE CONDITION																			
TOTAL			m	HOLE DRAG																			
WT. OF DC			1000 gms	TORQUE AT BOTTOM														HOURS RUN		INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)	
WT. OF REMAIN			1000	FILL ON BOTTOM (m)																			

METRES DRILLED					TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS						
FROM	TO	D.R. (MFT) CORE-C	ROTARY R.P.M.	W. ON BIT (1000' MIN)	FROM	TO	ELAP. TIME	CODE NO.							
					08:00			1	Bridle up, Tear out Floor Prefabs.						
									Blow & Anti-Freeze Drawdowns water lines						
									Tear out shop Prefabs, Pull out Floor Plates						
									Ready Derrick To lay over, lay over Derrick.						
					20:10	22:12		1	Pull Power cords, Rig out hydraulic lines						
CIRCULATION PRESSURE (kPa)					PUMP NO. 1		PUMP NO. 2								
					LINER SIZE (mm)		S.P.M.		LINER SIZE (mm)		S.P.M.				
REDUCED PUMP SPEED															
					@		@								
DEVIATION SURVEY															
DEPTH (m)			DEVIATION (°)		DIRECTION										
					NOTES										
DRILLER SIGNATURE					BOILER			MAXIMUM EXPERIENCED HOOKLOAD			SAFETY TOPIC		M.A.C.P.		
					HRS. RAN		ph		STACK TEMP.						

DRILLING ASSEMBLY (At End of Tour)										BIT RECORD										MUD RECORD															
NO.		BIT		O.D. (mm)		LENGTH		BIT NO.		SIZE (mm)		IADC CODE		MFG.		TYPE		SERIAL NO.		JETS		DEPTH OUT (m)		DEPTH IN (m)		TOTAL METRES DRILLED (m)		TOTAL HOURS RUN		CUTTING STRUCTURE		Reason Pulled		Total Run m/hr.	

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DAILY CHECKS	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H/S Signs Posted (if required)	Initial	Initial
(4) Wet Levee & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually inspect BOP's - Flarelines & Digester Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/one/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/one/month)		Initial
(3) Mast Inspection Before Raising or Lowering	Initial	
(4) Crown Saver Checked	Initial	
(5) Motor Kills checked	Initial	

[illegible]

TIME HRS	CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL	SHALE SHAKER(S)		RENTALS/SERVICES		MORN	DAY	EVE		
		OPR	RIG UP & TEAR DOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & DEG.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV SURVEY	WIRE LINE LOGS	HAZ CASE & CEMENT	WAT ON CEMENT	NISSLE UP B.O.P.	TEST B.O.P.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DRL WORK	SAFETY MTG.	Set slips	Circulating	Wellhead	Topdrive		NO.	TYPE							
MORN						5							3															8	SCREENS CHANGED ☐ YES ☐ NO		MT SLC 3117						
DAY						3 1/4							3 1/2									1/4	3 1/2						8	TOP	TOP		MT ACC 32128				
EVE															4 1/2									1/2		2		1		8	MIDDLE	MIDDLE					
TOTAL						5 3/4							6 1/2		4 1/2							1/4	3 1/2		1 1/2		2		1	24	BOTTOM	BOTTOM		Acc.oil 37			

DRILLING ASSEMBLY (At End of Tour)				BIT RECORD										MUD RECORD						
NO.	BIT		C.D. mm	LENGTH											MUD TYPE		☐ WATER BASED		☐ OIL BASED	
				m	BIT NO.															
				m	SIZE (mm)															
				m	IADC CODE															
				m	MFG.															
				m	TYPE															
				m	SERIAL NO.															
				m	JETS (mm)															
				m	DEPTH OUT (m)															
				m	DEPTH IN (m)															
				m	TOTAL METRES DRILLED (m)															
				m	TOTAL HOURS RUN															
	D.P.	STANDS		m	CUTTING STRUCTURE		V_c	V_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.					
	D.P.	SINGLES		m																
KELLY DOWN				m	HOLE CONDITION															
TOTAL				m	HOLE DRAG															
WT. OF DC			1000 gph	m	TORQUE AT BOTTOM															
WT. OF STRING			1000 psi	m	FILL ON BOTTOM (in)															

[illegible]

DRILLING ASSEMBLY (At End of Tour)				BIT RECORD										MUD RECORD			
NO.	BIT	O.D. mm	LENGTH											MUD TYPE ☐ WATER BASED ☐ OIL BASED			
			m	BIT NO.										TIME			
			m	SIZE (mm)										DENSITY kg/m ³			
			m	IADC CODE										FUNNEL			
			m	MFG.										VIS. - (S/L)			
			m	TYPE										W.L. (cm ³)			
			m	SERIAL NO.										pH			
			m	JETS (mm)													
			m	DEPTH OUT (m)										MUD MATERIALS ADDED			
			m	DEPTH IN (m)										SOLIDS CONTROL			
			m	TOTAL METRES DRILLED (m)										DESILTER			
			m	TOTAL HOURS RUN										PRODUCT AMOUNT X UNIT			
	D.P.	STANDS	m	CUTTING STRUCTURE										Sulfonics 105X			
	D.P.	SINGLES	m	T ₁	T ₂	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.	HOURS RUN	INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)	
	KELLY DOWN			HOLE CONDITION										SARIC 160 SX			
	TOTAL			HOLE DRAG										CENTRIFUGE			
WT. OF DC			1000 gals	TORQUE AT BOTTOM										HOURS RUN			
WT. OF STRING			1000 gals	FILL ON BOTTOM (m)										INTAKE DENSITY (kg/m ³)			
														OVERFLOW DENSITY (kg/m ³)			
														UNDERFLOW DENSITY (kg/m ³)			

METRES DRILLED					TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS			
FROM	TO	D.D. R. CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 lbs)	FROM	TO	ELAP. TIME	CODE NO.				
					08:00	08:45	3/4	5	Circulate, Clean up hole.			
					08:45	09:00	1/4	21	Safety meeting with Cementers.			
					09:00			12	Rig up Cement head, Cement Casing.			
						12:30	3 1/2		Plug down @ 12:00 hrs / Flush out B.O.P.'s			
					12:30	16:00	3 1/2	32	Ready To Lift stroke / Set Slips.			
REDUCED PUMP SPEED												
		@		@					LEAD			
DEVIATION SURVEY									Cemented with 43 Tonnes 1:1-2 + 3% D46 + 2% D46 + 1% B71. Cement To Surface 8m			
DEPTH (m)	DEVIATION (°)	DIRECTION							12 Tonnes RFC + 1.2% B71 + 4% B71 - 2% D46			
									ESTIMATED Top 1800m			
NOTES					✓ Crown Saver, Fastline Clamp Deadline Anchor.							
DRILLER SIGNATURE					BOILER		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		M.A.C.P.	
HRS. RAN					ph		STACK TEMP.					
8					10:30				Cementing			

[illegible]

METRES DRILLED					TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS					
FROM	TO	D.R.D. R.R.P. COREC.	ROTARY R.P.M.	WT. ON BIT (1000 lbs)	FROM	TO	ELAP. TIME	CODE NO.						
					16:00	16:30	1/2	23	MC Cut casing.					
					16:30	20:00	4 1/2	14	Nipple Down B.O.P.'s					
CIRCULATION PRESSURE (kPa)	PUMP NO. 1	LINER SIZE (mm)	S.P.M.	PUMP NO. 2	LINER SIZE (mm)	S.P.M.	21:00	23:00	2	24	Install well head			
							23:00	24:00	1	25	Rig out Top drive			
REDUCED PUMP SPEED														
	@		@											
DEVIATION SURVEY														
DEPTH (m)	DEVIATION (°)	DIRECTION												
NOTES					✓ Crown Saver, deadline anchor, firstline clamps									
DRILLER SIGNATURE					BOILER				MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		M.A.C.P.	
					HRS. RAN		ph		STACK TEMP.					
					8		10		240					

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DRILLING ASSEMBLY (At End of Tour)						MUD RECORD							METRES DRILLED				TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS				
NO.	BIT		O.D. mm	LENGTH	BIT NO.	MUD TYPE ☐ WATER BASED ☐ OIL BASED								FROM	TO	S.P.M.	R.P.M.	WT. CM BIT (1000 daN)	FROM	TO	ELAP. TIME	CODE NO.			
					SIZE (mm)									TIME											
					IADC CODE								DENSITY kg/m ³												
					MFG.									FUNNEL VIS - (S/L)											
					TYPE									W.L. (cm ³)											
					SERIAL NO.									pH											
					JETS (mm)																				
					DEPTH OUT (m)									MUD MATERIALS ADDED				SOLIDS CONTROL							
					DEPTH IN (m)									PRODUCT	AMOUNT X UNIT	DESILTER									
					TOTAL METRES DRILLED (m)									HOURS RUN		INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)							
					TOTAL HOURS RUN																				
					CUTTING STRUCTURE									CENTRIFUGE											
					T ₁ T ₂ MDC LOC B Gage ODC Reason Pulled Total Run m/hr.									HOURS RUN		INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)							
					KELLY DOWN																				
					TOTAL																				
					HOLE DRAG																				
					TORQUE AT BOTTOM									HOURS RUN		INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)							
					FILL ON BOTTOM (m)																				
														DRILLER SIGNATURE				BOILER		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		M.A.C.P.	
														HRS. RAM	ph	STACK TEMP.									

DRILLING ASSEMBLY (At End of Tour)			BIT RECORD										MUD RECORD		METRES DRILLED				TIME LOG			DETAILS OF OPERATION IN SEQUENCE AND REMARKS						
NO.	BIT	O.D. mm	LENGTH	BIT NO.											MUD TYPE		FROM	TO	DR-D R.P.M.	WT. ON BIT (1000 daN)	FROM	TO	ELAP. TIME	CODE NO.				
				SIZE (mm)											☐ WATER BASED ☐ OIL BASED													
				IADC CODE											TIME													
				MPG											DENSITY kg/m ³													
				TYPE											FUNNEL VIS - (S/L)													
				SERIAL NO.											W.L. (cm ²)													
				JETS (mm)											pH													
				DEPTH OUT (m)											MUD MATERIALS ADDED		SOLIDS CONTROL											
				DEPTH IN (m)											PRODUCT		AMOUNT X UNIT				DESILTER							
				TOTAL METRES DRILLED (m)																								
				TOTAL HOURS RUN																								
				CUTTING STRUCTURE										CENTRIFUGE														
				Y ₁	Y ₂	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.																
				HOLE CONDITION																								
				HOLE DRAG																								
				TORQUE AT BOTTOM																								
				FILL ON BOTTOM (m)																								
WT. OF DC			1000 daN																									
WT. OF STRING			1000 daN																									

DRILLING ASSEMBLY (At End of Tour)							BIT RECORD						MUD RECORD						METRES DRILLED						TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS													
NO.	BIT		O.D. mm	LENGTH	BIT NO.						MUD TYPE	☐ WATER BASED	☐ OIL BASED										FROM	TO	ELAP. TIME	CODE NO.																
				m	SIZE (mm)						TIME																															
				m	IADC CODE						DENSITY kg/m³																															
				m	MFG.						FUNNEL VIS. ~ (S/L)																															
				m	TYPE						W.L. (cm³)																															
				m	SERIAL NO.						pH																															
				m	JETS (mm)																																					
				m	DEPTH OUT (m)						MUD MATERIALS ADDED		SOLIDS CONTROL																													
				m	DEPTH IN (m)						PRODUCT	AMOUNT X UNIT	DESILTER																													
				m	TOTAL METRES DRILLED (m)								HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)																										
				m	TOTAL HOURS RUN																																					
		D.P.	STANDS		CUTTING STRUCTURE		B	Gage	ODC	Reason Pulled	Total Run m/hr.	CENTRIFUGE																														
		D.P.	SINGLES									HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)																											
KELLY DOWN				m	HOLE CONDITION																																					
TOTAL				m	HOLE DRAG																																					
WT.OF DC				1500 daN	TORQUE AT BOTTOM																HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)							DRILLER SIGNATURE				BOILER		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		M.A.C.P.	
WT.OF STRING				1000 daN	FILL ON BOTTOM (in)																										HRS. RAN	ph	STACK TEMP.									

115406

LICENCE NO.:	WELL NAME AND NO.:
	Suncor Netla K-77-60-50-132-30
OPERATOR:	CONTRACTOR:
Suncor Energy	Akita Drilling LTD
SURFACE LOCATION:	UNIQUE ID.:
K-77-60-50-132-30	300-K-77-060-500-132-30
SIGNATURE OF OPERATOR'S REPRESENTATIVE:	SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS	OTHER
(1) Daily Walk Around Inspection	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial
(3) HFS Signage Posted (if required)	Initial
(4) Walk Lignage & Stick Diagram Posted	Initial
(5) Flame Lines Staked	Initial
(6) BOP Drills Performed	Initial
(7) Visually inspect BOP's - Freshness & Degasser Lines	Initial
(1) Rig Site Health and Safety Meeting (one/week/month)	
(2) C.A. D.C. Rig Safety Inspection Checklist (one/week/month)	
(3) Master Inspection Before Raising or Lowering	
(4) Crown Block Checked	
(5) Motor Kills checked	

YEAR	99	MONTH	02	DAY	28	LAST CASING TUBING OR LINER	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)	
RIG NO.	58															
FUEL @ 8:00																
RIG	1.34	BOILER														
WEATHER	TEMPERATURE	°C	DC/DP. SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL-JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER		STROKE LTH. (mm)			
	CURRENT CONDITIONS									F-1000	Emsco		254			
	WIND DIRECTION										F-1000	Emsco		254		
	ROAD															

TIME - HRS	CODE NO.																											TOTAL	SHALE SHAKER(S)		RENTALS/SERVICES			MORN	DAY	EVE				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26		NO.	TYPE										
OPFR		RIG UP & TEAR DOWN	DRILL ACTUAL	REAMING	COHRNG	COND MUD & CIRC	TRIPS	R/O SERVICE	REPAIR R/O	CUT OFF DRILL LINE	DEV. SURVEY	WIRE LINE LOGS	PLAN CASE & CEMENT	WAIT ON CEMENT	SHIPLE UP B.O.P.	TEST B.C.P.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DR. WORK	SAFETY MTO	Lay down O.P. w/o Trip										2	Drill	MT	SLC	3881			
MORN						1/2	1/4															7 1/4										8	SCREENS CHANGED ☐ YES ☐ NO	MT	ACC	31892				
DAY							1/4						5 3/4									1/4			13 1/4							8	TOP	TOP						
EVE						1/4							3 3/4																			8	MIDDLE	MIDDLE						
TOTAL						4 1/4	1/2	1/2					9 1/2									1/4		7 1/4	13 1/4						24	BOTTOM	BOTTOM	Acc.oil	32					

DRILLING ASSEMBLY (At End of Tour)				BIT RECORD										MUD RECORD						
NO.	BIT	O.D. (mm)	LENGTH	BIT NO.						MUD TYPE					☐ WATER BASED		☐ OIL BASED			
			m	SIZE	(mm)					TIME										
			m	IADC CODE							DENSITY									
			m	MFG.						FUNNEL										
			m	TYPE						VIS. - (S/L)										
			m	SERIAL NO.						W.L. (cm ³)										
			m	JETS						pH										
			m	DEPTH OUT	(m)					MUD MATERIALS ADDED					SOLIDS CONTROL					
			m	DEPTH IN	(m)															
			m	TOTAL METRES DRILLED	(m)					PRODUCT					AMOUNT X UNIT		DESILTER			
			m	TOTAL HOURS RUN													HOURS RUN			
			m	CUTTING STRUCTURE					B	Gage	ODC	Reason	Total Run	CENTRIFUGE						
	D.P.	STANDS		T ₁	T ₂	MDC	LOC				Pulled	m/hr.								
	D.P.	SINGLES											HOURS RUN							
KELLY DOWN				HOLE CONDITION																
TOTAL				HOLE DRAG																
WT. OF DC			1000	TORQUE AT BOTTOM												HOURS RUN				
WT. OF STRING			1000	FILL ON BOTTOM (m)												INTAKE DENSITY (kg/m ³)				
			1000													OVERFLOW DENSITY (kg/m ³)				
																UNDERFLOW DENSITY (kg/m ³)				

METRES DRILLED					TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS			
FROM	TO	D.H.D. D.M.T. CORE-C	ROTARY R.P.M.	WT. ON BIT (1000-lbN)	FROM	TO	ELAP. TIME	CODE NO.				
					00:00	03:45	3 3/4	32	Laydown D.P. (161 sgl's) ✓ Flow			
					03:45	04:00	1/4	7	R/I.S. func. Top pipe 8sec			
CIRCULATION PRESSURE (kPa)		PUMP NO. 1		PUMP NO. 2	04:00	04:30	1/2	6	R.I.H. 12 STDs			
		LINER SIZE (mm)	S.P.M.	LINER SIZE (mm)	04:30	08:00		22	Laydown 36 sgl's D.P. 9 sgl's H.W. 15 D.C.			
REDUCED PUMP SPEED												
		@		@								
DEVIATION SURVEY												
DEPTH (m)		DEVIATION (°)		DIRECTION								
NOTES					✓ Crown Saver, deadline anchor, fastline clamp T.D.S. - .30							
DRILLER SIGNATURE					BOILER		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		M.A.C.P.	
HRS. RAN					ph		STACK TEMP.					
8 10					230				Laydown D.P.			

DRILLING ASSEMBLY (At End of Tour)				BIT RECORD										MUD RECORD															
NO.	BIT		O.D. mm	LENGTH m	BIT NO.	SIZE (mm)	IADC CODE	MFG.	TYPE	SERIAL NO.	JETS (mm)	DEPTH OUT (m)	DEPTH IN (m)	TOTAL METRES DRILLED (m)	TOTAL HOURS RUN	CUTTING STRUCTURE T ₁ T ₂ MDC LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.	MUD TYPE	☒ WATER BASED	☐ OIL BASED	TIME	DENSITY kg/m ³	FUNNEL VIS. - (S/L)	W.L. (cm ³)	pH
	STANDS	SINGLES																											
															MUD MATERIALS ADDED		SOLIDS CONTROL												
															PRODUCT		AMOUNT X UNIT		DESILTER										
																			HOURS RUN	INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)							
																			CENTRIFUGE										
																			HOURS RUN	INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)							
KELLY DOWN					HOLE CONDITION																								
TOTAL					HOLE DRAG																								
WT. OF DC				1000 g/m ³	TORQUE AT BOTTOM														HOURS RUN	INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)							
WT. OF STING				1000 g/m ³	FILL ON BOTTOM (m)																								

METRES DRILLED						TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS			
FROM	TO	D.H.D. R.M.R. CORRECTION	ROTARY R.P.M.	WT. ON BIT (1000 lbs)	FROM	TO	ELAP. TIME	CODE NO.					
1990:	T.D.				08:00	09:00	1	12	Rig to Run Casing				
					09:00	10:45	1 3/4	23	Wait on Tong Truck.				
CIRCULATION PRESSURE (kPa)	PUMP NO. 1		PUMP NO. 2		10:45	11:00	1/4	7	R/S Function Blind Ranks 75 sec ds.				
	LINE SIZE (mm)	S.P.M.	LINE SIZE (mm)	S.P.M.	11:00	11:45	3/4	12	Rig up Power Tongs.				
	152		152		11:45	12:00	1/4	21	Safety meeting.				
REDUCED PUMP SPEED					12:00	16:00	4	12	Make up shoes & float, Run casing				
	@		@										
DEVIATION SURVEY													
DEPTH (m)	DEVIATION (°)		DIRECTION										
					NOTES ✓ Crown Saver, Fastline Clamp, Deadline Anchor								
DRILLER SIGNATURE					BOILER		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		M.A.C.P.		
Gordon Paton					HRS. RUN	ph STACK TEMP.							
					8	10 340							

DRILLING ASSEMBLY (At End of Tour)						BIT RECORD							MUD RECORD			
NO.	BIT	O.D. mm	LENGTH	BIT NO.		MUD TYPE	☐ WATER BASED	☐ OIL BASED								
			m	SIZE (mm)		TIME										
			m	IADC CODE		DENSITY kg/m ³										
			m	MFG.		FUNNEL VIS - (S/L)										
			m	TYPE		W.L. (cm ³)										
			m	SERIAL NO.		pH										
			m	JETS (mm)												
			m	DEPTH OUT (m)		MUD MATERIALS ADDED		SOLIDS CONTROL								
			m	DEPTH IN (m)		PRODUCT	AMOUNT X UNIT	DESILER								
			m	TOTAL METRES DRILLED (m)				HOURS RUN	INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)					
			m	TOTAL HOURS RUN												
	D.P.	STANDS	m	CUTTING STRUCTURE		B	Gage	ODC	Reason Pulled	Total Run m/hr.	CENTRIFUGE					
	D.P.	SINGLES	m	T _r	T _d	MDG	LOC				HOURS RUN	INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)		
KELLYDOWN				HOLE CONDITION												
TOTAL																
WT.OFDC			1000 lbs/lb	TORQUE AT BOTTOM							HOURS RUN	INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)		
WT.OF STRING			1000	PULL ON BOTTOM (m)												

METRES DRILLED					TIME LOG		DETAILS OF OPERATION IN SEQUENCE AND REMARKS			
FROM	TO	D.R. R.A.R. CODE C	ROTARY R.P.M.	WT. ON BIT (1000 gms)	FROM	TO	ELAP. TIME	CODE NO.		
					16:00	17:30	1 1/2	12	Run casing.	
					17:30	18:30	1	5	Break Circ. Work & circulate casing.	
					18:30	19:15	3/4	12	Continue Running Casing	
					19:15	20:45	1 1/2	5	Break Circ. 1745	
					20:45	21:15	1/2	12	Run casing TO 1840	
					21:15	23:00	1 3/4	5	Run circ Tool = circ work tight hole	
					23:00	24:00	1	12	Circulate casing in to 1900m	
CIRCULATION PRESSURE (kPa)					PUMP NO. 1		PUMP NO. 2			
					LINER SIZE (mm)		S.P.M.			
					LINER SIZE (mm)		S.P.M.			
REDUCED PUMP SPEED										
@					@					
DEVIATION SURVEY										
DEPTH (m)		DEVIATION (°)		DIRECTION						
NOTES					✓ Crown Saver, deadline anchor, Eastline clamp T.D.S. - .30					
DRILLER SIGNATURE					BOILER		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC	
					HRS. RAN		STACK TEMP.		M.A.C.P.	
					8 10		230			

WEATHER	DATE			LAST CASING TUBING OR LINER	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL (m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
	YEAR	MONTH	DAY										
	RIG NO.												
	FUEL @ 8:00												
	1994	02	27										
	RIG NO. 56												
	FUEL @ 8:00												
	RIG 1.58 BOILER												
				244.5	236.5	53.6	Prudential	J55	41	537.43	6.45	535	
WEATHER	TEMPERATURE °C			D.O.P. SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. I.D. (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
	CURRENT CONDITIONS			178	154.1	O.C	77	178	5" X 110	9	F-1000	Emsco	354
	WIND DIRECTION			127	74.35	H.W	76	165	5" X H	110	F-1000	Emsco	354
	ROAD			127	38.04	E3	101	↓	↓	142			

[illegible]

115404

DAILY CHECKS	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H/S Signs Posted (if required)	Initial	Initial
(4) Well License & Stool Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Daily Performed	Initial	Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (once/week/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (once/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR MONTH DAY 77 02 26		LAST CASING		O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL (m)	KB TO CSG HEAD (m)	SET AT (m)
RIG NO 58		TUBING OR LINER										
FUEL @ 8:00												
RIG 1-88		BOILER		244.5	226.5	53.6	Prudential	JSS	41	537.43	6.45	535
WEATHER	TEMPERATURE °C		DC/DF SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TJOL-T.O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTR (mm)
	CURRENT CONDITIONS		178	13.7	A6	77	116	5" 40 21	9	F-1000	Emisco	254
	WIND DIRECTION		127	24.35	H.W	78	165	5" X 11	9	F-1000	Emisco	254
	ROAD		127	29.02	E2	108	↓	↓	110	F-1000	Emisco	254
				127	38.09	E3	101	↓	113			

TIME - HRS	CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTALS	SHALE SHAKER(S)		RENTALS/SERVICES			MORN	DAY	EVE		
	OFFER	RIG UP & TEAR DOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & DISC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV SURVEY	WIRE LINE LOGS	RUN CASE & CEMENT	WAIT ON CEMENT	MIXER UP B.O.P.	TEST B.O.P.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DPL WORK	SAFETY MTG.	Handle Tools Blowmill Line															
	MORN					1 1/4	6 1/4	1/4			1/4																		8	2A TIME		MT	SLC				10553	
	DAY					4	3 3/4	1/4																					8	SCREENS CHANGED	☐ YES ☒ NO	MT	ACC.				28914	
	EVE					3A						4 1/4												1 1/4	1 1/4				8	TOP	210	TOP	84					
TOTAL					5 1/4	12 1/4	1/2				1/4	4 1/4											1 1/4	1 1/4			24	MIDDLE	250	MIDDLE	84							
																														BOTTOM	250	BOTTOM	84	Acc. oil	.32			

DRILLING ASSEMBLY (At End of Tour)						BIT RECORD							MUD RECORD				
NO.	BIT 222 O.D.(mm)		LENGTH	BIT NO.				MUD TYPE				☐ WATER BASED	☐ OIL BASED				
1	MTR		7.83	SIZE (m.m)	222			TIME									
1	FLOAT SUB		1.51	IADC CODE	4 3 7 C			DENSITY kg/m ³									
1	WBHO		1.64	MFG.	Smith			FUNNEL VIS - (S/L)									
1	NMDC		18.65	TYPE	FIOTP			W.L. (cm ³)									
1	X/O		1.30	SERIAL NO.	LT7094			pH									
5	178 DC		47.60	JETS (mm)	3x15.8												
1	JAP		4.86	DEPTH OUT (m)	1990			MUD MATERIALS ADDED				SOLIDS CONTROL					
12	178 DC		114.37	DEPTH IN (m)	1577			PRODUCT				AMOUNT X UNIT					
1	X/O		1.42	TOTAL METRES DRILLED (m)	413							HOURS RUN	INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)		
9	H.W.		82.77	TOTAL HOURS RUN	81 1/2							DESILTER					
	BHA		278.22	CUTTING STRUCTURE	T _i	T _a	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr	CENTRIFUGE			
	D.P.	STANDS												HOURS RUN	INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)
	D.P.	SINGLES															
	KELLY DOWN			HOLE CONDITION													
	TOTAL			HOLE DRAG													
WT.OF DC		29000	1000 gms	TORQUE AT BOTTOM													
WT.OF STRING		40000	1000 gms	FILL ON BOTTOM (m)													

METRES DRILLED					TIME LOG		DETAILS OF OPERATION IN SEQUENCE AND REMARKS			
FROM	TO	D.R.D. R.M.R. CORREC.	ROTARY R.P.M.	W.T. CH. BIT (1000 in)	FROM	TO	ELAP. TIME	CODE NO.		
					00:00	01:00	1	5	Circulate up 1990 samples & analyze	
					01:00	01:15	1/4	10	Survey @ 1976 m	
CIRCULATION PRESSURE (kPa)	PUMP NO. 1	PUMP NO. 2			01:15			6	Ramp out of hole 12 STDs ✓ Flow P.O.H 35 STDs	
	LINEAR SIZE (mm)	S.P.M.	LINEAR SIZE (mm)	S.P.M.		05:15	4		993 m - ✓ Flow	
8100	152	90			05:15	05:30	1/4	7	Rig Service, Pump. Ann 20 sec	
REDUCED PUMP SPEED					05:30	07:00	1 1/2	6	R.I.H. F/993 m, Break circ @ 1645	
6000	@	70	@		07:00	07:15	1/4	5	Wash STDs down F/1645 m - 1680 m	
DEVIATION SURVEY					07:15	08:00	3/4	6	R.I.H. To 1800 m	
DEPTH (m)	DEVIATION (°)	DIRECTION								
1976	.56	178.42								
NOTES					✓ Crown Saver, deadline anchor fastline clamp					
DRILLER SIGNATURE					BOILER		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC	M.A.C.P.
[Signature]					HRS. RAN	ph	STACK TEMP.	130000		
					8					

DRILLING ASSEMBLY (At End of Tour)				BIT RECORD										MUD RECORD								
NO.	BIT	O.D. mm	LENGTH	BIT NO.						MUD TYPE					☐ WATER BASED		☐ OIL BASED					
			m	SIZE	(mm)					TIME												
			m	IADC CODE							DENSITY kg/m ³											
			m	MFG.						FUNNEL VIS. - (S/L)												
			m	TYPE						W.L. (cm ³)												
			m	SERIAL NO.						pH												
			m	JETS	(mm)																	
			m	DEPTH OUT	(m)					MUD MATERIALS ADDED					SOLIDS CONTROL							
			m	DEPTH IN	(m)					PRODUCT					AMOUNT X UNIT		DESILTER					
			m	TOTAL METRES DRILLED	(m)					EXCIDE					3 JUGS		HOURS RUN	INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)		
			m	TOTAL HOURS RUN																		
	D.P.	STANDS		CUTTING STRUCTURE					B	Gage	ODC	Reason Pulled	Total Run m/hr.									
			m	T ₁	T ₂	MDC	LOC						CENTRIFUGE									
	D.P.	SINGLES											HOURS RUN						INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)	
			m																			
	KELLY/DOWN			HOLE CONDITION																		
	TOTAL			HOLE DRAG 20000 ↑ 10000 ↓																		
WT. OF DC		29000	1000 gal	TORQUE AT BOTTOM 10446															HOURS RUN	INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)
WT. OF STRING		83000	1000 gal	FILL ON BOTTOM (m) 0																		

METRES DRILLED					TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS				
FROM	TO	DRD R.M.T. CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 mm)	FROM	TO	ELAP TIME	CODE NO.					
1990					08:00	08:30	1/2	6	R.I.H. F/1800m-1970m				
					08:30	08:45	1/4	5	Wash 20m To Bottom, No Fill				
CIRCULATION PRESSURE (KPa)	PUMP NO. 1		PUMP NO. 2		08:45	12:30	3 3/4	5	Circulate & Work Pipe				
LINEAR SIZE (mm)	S.P.M.	LINEAR SIZE (mm)	S.P.M.		12:30	12:45	1/4	7	R/S. Function upper pipe 7 sec cl/s VRSP.				
8900	152	90	152		12:45	14:15	1 1/2	6	Pump out of Hole 12 sides Flow ✓ 15 stks				
REDUCED PUMP SPEED					14:15	16:00	1 3/4	6	P.O.H. Flow ✓ @ 30 stks				
6000	@	50	@		Strap out								
DEVIATION SURVEY													
DEPTH (m)	DEVIATION (°)	DIRECTION			STRAP 1991.56 m								
					Depth 1990.00 m								
					Diff + 1.56 m								
					NOTES ✓ Crown Saver, Fastline Clamp, Deadline Anchor.								
DRILLER SIGNATURE					BOILER		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		M.A.C.P.		
Garry Patrick					H/S. BAN	ph	STAG TEMP.						
					8	10	240						

DRILLING ASSEMBLY (At End of Tour)										MUD RECORD																	
NO.		BIT		O.D. mm		LENGTH		BIT RECORD										MUD TYPE		☐ WATER BASED		☐ OIL BASED					
						m		BIT NO.								TIME											
						m		SIZE (mm)								DENSITY kg/m ³											
						m		IADC CODE								FUNNEL											
						m		MPG.								VIS. - (S/L)											
						m		TYPE								W.L. (cm ³)											
						m		SERIAL NO.								pH											
						m		JETS (mm)																			
						m		DEPTH OUT (m)								MUD MATERIALS ADDED		SOLIDS CONTROL									
						m		DEPTH IN (m)								PRODUCT		AMOUNT X UNIT		DESILTER							
						m		TOTAL METRES DRILLED (m)												HOURS RUN		INTAKE DENSITY (g/cm ³)		OVERFLOW DENSITY (g/cm ³)		UNDERFLOW DENSITY (g/cm ³)	
						m		TOTAL HOURS RUN																			
		D.P.		STANDS				m		CUTTING STRUCTURE		B		Gage		ODC		Reason Pulled		Total Run m/hr.							
								m		T ₁		T ₂		MDC		LOC											
		D.P.		SINGLES				m																			
								m																			
								m																			
								m																			
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METRES DRILLED					TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS			
FROM	TO	DRY RAB COR-EC	ROTARY R.P.M.	WT. ON BIT (1000 LBS)	FROM	TO	ELAP TIME	CODE NO.				
					16:00	18:15	2 1/4	6	P.O.D.H. Flow @ H.W. out of Hole stopped			
					18:15	19:30	1 1/4	22	key Down 2 D.C., Directional equip Blinds 7/8			
CIRCULATION PRESSURE (kPa)	PUMP NO. 1		PUMP NO. 2		19:30	19:45	1/4	23	Blow mud line,			
	LINER SIZE (mm)	S.P.M.	LINER SIZE (mm)	S.P.M.	19:45			11	Rig up Schlumberger loggers Make up Tools = AIT, PLATFORM, SONIC, GR. & R.S.H.			
REDUCED PUMP SPEED					20:00		1/4					
	@		@									
DEVIATION SURVEY												
DEPTH (m)	DEVIATION (°)		DIRECTION									
NOTES					✓ Crown Saver, deadline anchor fast line clamp Hold safety machine prior to logging T.D.S. - 40							
DRILLER SIGNATURE					BOILER		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		M.A.C.P.	
					HRS. RUN	DR. STACK TEMP.						
					8	10 230			logging			

115403

LICENCE NO.:	WELL NAME AND NO.:
	Suncor Netla K-77-60-50-122-30
OPERATOR:	CONTRACTOR:
Suncor Energy	Akita Drilling LTD.
SURFACE LOCATION:	UNIQUE ID.:
K-77-60-50-122-30	300-K-77-060-500-122-30
SIGNATURE OF OPERATOR'S REPRESENTATIVE:	SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection Weekly (using checklist)	Initial	Initial
(3) H'S Signs Posted (if required)	Initial	Initial
(4) Wet License & Stick Diagram Posted	Initial	Initial
(5) Flame Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (once a month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (once a month)		Initial
(3) Meet Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kils checked		Initial

YEAR	MONTH	DAY	LAST	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL (m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
94	02	25	CASING	244.5	226.5	53.6	Prudential	J35	41	537.43	6.45	535
RIG NO.	58		TUBING									
FUEL @ 8:00			OR									
RIG	1.40		LINER									
BOILER												
W	TEMPERATURE	°C	D/C/P SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JOINT D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
E	CURRENT		118	74.35	D.C.	77	118	5"XH	9	F-1000	Emsco	254
A	CONDITIONS		127	74.35	H.W	78	168	5"XH	9	F-1000	Emsco	254
T	WIND DIRECTION		127	29.02	E2	108	165	↓	110	F-1000	Emsco	254
H	ROAD		127	38.08	E3	108	165	↓	113			

TIME - HRS	CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL	SHALE SHAKER(S)		RENTALS/SERVICES		MORN	DAY	
		OFFER	RIG UP & TEAR DOWN	DRIILL ACTUAL	REAMING	CORING	CONC. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRIILL LINE	DEV SURVEY	WIRE LINE LOGS	PEN CASE & CEMENT	WAIT ON CEMENT	AMPLE UP B.O.P.	TEST B.O.P.	DRIILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DRIILL WORK	SAFETY MTG.	NO. TYPE											
MORN			7					1/4			3/4																	8	2 Derrick		MT SLC-7337				
DAY			7								1																	8	SCREENS CHANGED ☐ YES ☒ NO		MT ACC-25698				
EVE			6 3/4			1/4		1/4			3/4																	8	TOP 310	TOP 84					
TOTAL			20 3/4			1/4		1/2			2 1/2																	24	MIDDLE 350	MIDDLE 1					
																														BOTTOM 350	BOTTOM 1	ACC-DTL-32			

DRILLING ASSEMBLY (At End of Tour)				BIT RECORD							MUD RECORD					
NO.	BIT		LENGTH	BIT NO.					MUD TYPE		WATER BASED		OIL BASED			
	Q.D. mm															
1	MTR	222	7.83	3					TIME		02:00	04:00	06:00			
1	FLOT	51	1.51	SIZE (mm)		222			DENSITY kg/m ³		1215	1215	1215			
1	UBH	64	1.64	IADC CODE		4376			FUNNEL VIS. (SL)							
2	NMDC	186.5	186.5	MFG.		Smith			W.L. (cm ³)		7.5	8.0	8.0			
1	X10	130	130	TYPE		FLOT			pH		10.5	10.0	10.0			
5	178 D.C.	47.60	47.60	SERIAL NO.		LT7094			PVT M ³		48.2	49.2	50.2			
1	5015	4.80	4.80	JETS (mm)		3x15.4			MUD MATERIALS ADDED		SOLIDS CONTROL					
12	178 D.C.	114.34	114.34	DEPTH OUT (m)		—			PRODUCT		AMOUNT X UNIT		DESILTER			
1	X10	1.42	1.42	DEPTH IN (m)		1577			Flopex		7 SX		HOURS RUN	INTAKE DENSITY (gpm.)	OVERFLOW DENSITY (gpm.)	UNDERFLOW DENSITY (gpm.)
9	H.W.	82.77	82.77	TOTAL METRES DRILLED (m)		330			Potassium		14 SX					
	BHA	274.25	274.25	TOTAL HOURS RUN		67 3/4							CENTRIFUGE			
57	D.P.	STANDS	1632.57	CUTTING STRUCTURE		B	Gage	ODC	Reason Pulled	Total Run m/hr.						
	D.P.	SINGLES		T ₁	T ₀	MDC	LOC				HOURS RUN					
											INTAKE DENSITY (gpm.)					
											OVERFLOW DENSITY (gpm.)					
											UNDERFLOW DENSITY (gpm.)					
Stickup	KELLY DOWN		4.79	HOLE CONDITION												
	TOTAL		1907.04	HOLE DRAG 16-20000 ↑ 14-16000 ↓												
WT. OF DC		29000	1000 def	TORQUE AT BOTTOM 10446												
WT. OF STRING		79000	1000 def	FILL ON BOTTOM (m) —												
										CENTRIFUGE #2						
										HOURS RUN						
										INTAKE DENSITY (gpm.)						
										OVERFLOW DENSITY (gpm.)						
										UNDERFLOW DENSITY (gpm.)						

DRILLING ASSEMBLY (At End of Tour)				BIT RECORD										MUD RECORD			
NO	BIT (At End of Tour)		LENGTH	BIT NO.		MUD TYPE				☒ WATER BASED		☐ OIL BASED					
	BIT	O.D. (mm)															
1	MOTOR	25	7.85	SIZE (mm)	222	TIME	09:00	12:00	13:00								
1	FLOAT SUB	51		WADC CODE	437C	DENSITY kg/m ³	1205	1200	1205								
1	UBHO	64		MFG.	Smith	FUNNEL VIS. - (S/L)											
2	NMDC	18.65		TYPE	F10TP	W.L. (cm ³)	7.0	7.0	7.3								
1	X10	30		SERIAL NO.	LT7094	pH	10.0	10.5	10.5								
5	178 DC	47.60		JETS (mm)	3x15.9	PVT-M ³	51.2	51.8	51.9								
1	Jar	4.86		DEPTH OUT (m)	—	MUD MATERIALS ADDED		SOLIDS CONTROL									
12	178 DC	114.39		DEPTH IN (m)	1577	PRODUCT	AMOUNT X UNIT	DESILTER									
1	X10	1.42		TOTAL METRES DRILLED (m)	371	FloPlex	17 SX	HOURS RUN	INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)						
9	HWDP	82.77		TOTAL HOURS RUN	743/4	Potassium	25 SX	8									
		BHA=279.22		CUTTING STRUCTURE		Soda Ash		1 SX	CENTRIFUGE								
58	D.P.	STANDS	m	T ₁	T ₂	MDC	LOC	B	Gage	ODC	Reason Putted	Total Run m/hr.					
X	D.P.	SINGLES	1670.60														
Stickup	KELLYDOWN	1.82		HOLE CONDITION													
				HOLE DRAG 14-16000 ↑ 13-15000 ↓													
	TOTAL	1948.00															
WT. OF DC	29000	1500 gal		TORQUE AT BOTTOM		7835 FT/LBS											
WT. OF STRING	80000	1500 gal		FILL ON BOTTOM (m)		—		FILL ON		8		1205 1180 172					

DRILLING ASSEMBLY (At End of Tour)				BIT RECORD				MUD RECORD								
NO.	BIT	D.D. min	LENGTH	BIT NO.				MUD TYPE	WATER BASED		OIL BASED					
1	MIR		7.83	SIZE	(mm)			TIME	16:00	20:00	24:00					
1	Floot Sub		1.51	IADC CODE	4/3/7 C			DENSITY	1205	1205	1210					
1	ABH2		.64	MFG.	Smith			FUNNEL								
3	NMOL		18.65	TYPE	FIOTP			VIS. - (S/L)								
1	X/O		.30	SERIAL NO.	LT7094			W.L. (cm ²)	7.5	7.5	7.5					
5	1740.6		47.60	JETS	(mm)			pH	10.5	10.0	10.0					
1	Tot		4.46	DEPTH OUT	(m)			MUD MATERIALS ADDED	SOLIDS CONTROL							
12	1740.6		114.39	DEPTH IN	(m)			PRODUCT	AMOUNT X UNIT		DESILTER					
1	X/O		1.43	TOTAL METRES	413			Potassium	12.5x	HOURS RUN	INTAKE DENSITY (kgm.)	OVERFLOW DENSITY (kgm.)	UNDERFLOW DENSITY (kgm.)			
9	H.W.		82.77	ORILLED	(m)			Floplex	95x							
	BHA		279.2	TOTAL HOURS RUN	81 1/2			Caustic	15x							
			174.39	CUTTING STRUCTURE				CENTRIFUGE								
				T ₁	T ₂	MDG	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.	HOURS RUN	INTAKE DENSITY (kgm.)	OVERFLOW DENSITY (kgm.)	UNDERFLOW DENSITY (kgm.)
610	D.P.	STANDS	150.75	HOLE CONDITION												
	D.P.	SINGLES	27.05	HOLE DRAG												
	STICK	KELLY DOWN	7.61	TORQUE AT BOTTOM												
	TOTAL		1440	FILL ON BOTTOM (m)												
WT. OF DC			29000	HOURS RUN												
WT. OF STRING			80000	INTAKE DENSITY (kgm.)												

METRES DRILLED					TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS			
FROM	TO	SPHO. RMP- CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)	FROM	TO	ELAP. TIME	CODE NO.				
1872	1907	35	30	2 2/3	00:00	04:15	4 1/4	2	Drill 232 mm hole F/1872m-1892m			
	SLIP MTR 70			* 1/26	04:15	04:30	1 1/4	7	Rio Service, function Toppipe 8sec			
CIRCULATION PRESSURE (kPa)	PUMP NO. 1	PUMP NO. 2			04:30	07:15	2 3/4	2	Drill F/1892-1907m			
	LINE SIZE (mm)	S.P.M.	LINE SIZE (mm)	S.P.M.	07:15	08:00	3/4	10	Acc Survey Time.			
9100			152	90								
REDUCED PUMP SPEED												
5400	@		@	50								
DEVIATION SURVEY												
DEPTH (m)	DEVIATION (°)		DIRECTION									
1869.28	3.7		341.05									
1878.73	2.9		348.74									
1888.19	2.1		7.1									
NOTES					✓ Crown Saver, deadline anchor, Fastline clamp T.D.S. - .30 Function Remote Choke							
DRILLER SIGNATURE					BOILER		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		M.A.C.P.	
HRS. RAN					ph	STACK TEMP.						
8					10	240	125000				2332	

METRES DRILLED					TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS			
FROM	TO	CHD. RM. R. CORRECTION	ROTARY R.P.M.	WT. ON BIT (1000 lbf)	FROM	TO	ELAP. TIME	CODE NO.				
1907	1948	41	307	29/22	08:00	15:00	7	2	Drill 222mm hole F/1907m-1948m			
		SLIDE RTR 90	25/29		15:00	16:00	1	10	ACC SURVEY TIME.			
CIRCULATION PRESSURE (KPA)		PUMP NO. 1		PUMP NO. 2								
LINER SIZE (mm)		S.P.M.		LINER SIZE (mm)		S.P.M.						
8600		152 90		152								
REDUCED PUMP SPEED												
6100		@	50	@								
DEVIATION SURVEY												
DEPTH (m)		DEVIATION (°)		DIRECTION								
1897.8		1.9		32.38								
1906.9		2.2		54.17								
1916.6		2.5		75.98								
1926.2		2.8		86.41								
NOTES												
✓ Crown Saver Fastline Clamp Deadline Anchor.												
Greased Crown Blocks												
DRILLER SIGNATURE				BOILER		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		M.A.C.P.		
Gary Patrick				HRS. RAN ph STACK TEMP.		130000 DAN				3333 KPA		
8				10 240								

METRES DRILLED						TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS	
FROM	TO	DRILL RPM COR.	ROTARY R.P.M.	WT. ON BIT (1000/KN)		FROM	TO	ELAP. TIME	CODE NO.		
1948	1990	90	30	250		16:00	16:15	1/4	2	Drill 222mm hole F/1948m - 1949m	
		90	30	250		16:15	16:30	1/4	7	R/S, Function BTTm pipe 7sec. C/S, ✓RSP	
CIRCULATION PRESSURE (kPa)	PUMP NO. 1	PUMP NO. 2				16:30	23:00	6 1/2	2	Drill F/1949m - 1990m	
	LINE SIZE (mm)	S.P.M.	LINE SIZE (mm)	S.P.M.		23:00	23:45	3/4	10	Acc. Surveys	
8800	152	90	152			23:45	24:00	1/4	5	Circulate up sample	
REDUCED PUMP SPEED											
6100	@	50	@								
DEVIATION SURVEY											
DEPTH (m)	DEVIATION (°)		DIRECTION								
1945.3	2.0		104.03								
1955.1	1.5		114.87								
1974.16	.6		171.6								
NOTES						✓ Crown Saver, fastline clamp, deadline anchor T.D.S. .40					
DRILLER SIGNATURE						BOILER		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC	
HRS. RAN						ph		STACK TEMP.		M.A.C.P.	
8						10		340		125000	
										3333	

115402

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LICENCE NO.: WELL NAME AND NO.: Suncor Natla K-77-60-50-122-50

OPERATOR: Suncor Energy CONTRACTOR: Akita Drilling LTD

SURFACE LOCATION: K-77-60-50-122-30 UNIQUE ID: 300-K-77-060-500-122-30

SIGNATURE OF OPERATOR'S REPRESENTATIVE: SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

(1) Daily Walk Around Inspection
(2) Detailed Inspection Weekly (using checklist)
(3) H/S Signs Posted (if required)
(4) Well License & Stick Diagram Posted
(5) Flare Lines Staked
(6) BOP Dills Performed
(7) Visually inspect BOP's - Flarelines & Degasser Lines

OPR. R.M.

Initial Initial
Initial Initial
Initial Initial
Initial Initial
Initial Initial
Initial Initial
Initial Initial

(1) Rig Site Health and Safety Meeting (one/crow/month)
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/monthly)
(3) Mast Inspection Before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kils checked

Initial Initial
Initial Initial
Initial Initial
Initial Initial
Initial Initial

YEAR: 2024 MONTH: 02 DAY: 24

RIG NO: 58

FUEL @ 8:00

W. 1.78 BOILER

W. 1.78 BOILER

TEMPERATURE °C

CURRENT CONDITIONS

WIND DIRECTION

ROAD

O.D. (mm) MIN. I.D. (mm) kg/m MAKE GRADE NO. OF JOINTS TOTAL(m) LENGTH KB. TO CSG HEAD (m) SET AT (m)

244.5 246.5 536 Prudential 355 41 537.43 6.45 535

DC/DIP SIZE (mm) LINEAR MASS (kg/m) GRADE MIN. ID (mm) TOOL JOINT TYPE NO. OF JOINTS PUMP TYPE PUMP MANUFACTURER STROKE (LTS/min)

127 74.35 DC 78 160 42 IF 9 F-1000 Emsco 254

127 29.02 E2 105 165 110 F-1000 Emsco 254

127 38.07 E3 105 165 112

TIME - HRS	CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTALS	SHALE SHAKER(S)		RENTALS/SERVICES		MONTH	DAY	EVE		
	OPER.	RIG UP & TEST DOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & O.C.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV. SURVEY	WIRE LINE LOGS	RUN CASE & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MTG.								NO.	TYPE						
	MORNL		6 1/2				1/2		1 1/4		3/4																			8	Deere/Derrick	Total MJ				6592	
	DAY		6 3/4					1 1/4			1																			5	SCREENS CHANGED	☒ YES ☐ NO				Accum MJ	24953
	EVE		7 1/4								3/4																			8	TOP	210				TOP	84
	TOTAL		20 1/2				1 1/2	1 1/2			2 1/2																			24	MIDDLE	250				MIDDLE	84
																															8	BOTTOM				250	BOTTOM
																																Accum Oil = 32					

NO.	DRILLING ASSEMBLY (At End of Tour)	LENGTH	BIT NO.	3	MUD TYPE	WATER BASED	OIL BASED
1	BIT	Q.D. mm	1.25	SIZE (mm)	222	TIME	02:00 04:00 06:00
1	Motor	7.83	ADOC CODE	4/3/7/C	DENSITY kg/m ³	1195	1200
1	12.5 D.C.	14.64	MFG	Smith	FUNNEL VIS. - (S/L)		
3	NMDC	18.65	TYPE	F10TP	W.L. (cm ²)	8.0	8.6
1	X/O	3.30	SERIAL NO.	LT7094	pH	10.0	10.5
5	178 D.C.	47.60	JETS (mm)	3x15.9	INTAKE DENSITY (kg/m ³)	53.7	56.1
1	Tars	4.86	DEPTH OUT (m)		OVERFLOW DENSITY (kg/m ³)	55.6	
12	178 D.C.	114.39	DEPTH IN (m)	15.22	MUD MATERIALS ADDED		
1	X/O	1.42	TOTAL METRES DRILLED (m)	236	PRODUCT	AMOUNT X UNIT	
9	H.W.D.	82.77	TOTAL HOURS RUN	46 3/4	Floplex	6 SX	
			CUTTING STRUCTURE		Potassium	27 SX	
15	D.P.	STANDS 1518	T. T ₀ MDC LOC B Gage OOC Reason Pulled Total Run m/hr.		Centric	1 SX	
XX	D.P.	SINGLES 19.04			Soda Ash	1 SX	
	STICK UP	3.26	HOLE CONDITION				
	TOTAL	1813	HOLE DRAG	30-35000 15-20000V			
WT. OF DC	29000	1000 gals	TORQUE AT BOTTOM	9141 FT/LBS			
WT. OF STRING	75000	1000 gals	FILL ON BOTTOM (m)				

NO.	DRILLING ASSEMBLY (At End of Tour)	LENGTH	BIT NO.	3	MUD TYPE	WATER BASED	OIL BASED
1	BIT	Q.D. mm	1.25	SIZE (mm)	222	TIME	09:00 12:00 15:00
1	Motor	7.83	ADOC CODE	4/3/7/C	DENSITY kg/m ³	1200	1200
1	12.5 D.C.	14.64	MFG	Smith	FUNNEL VIS. - (S/L)		
2	NMDC	18.65	TYPE	F10TP	W.L. (cm ²)	7.5	8.0
1	X/O	3.30	SERIAL NO.	LT7094	pH	10.5	10.0
5	178 D.C.	47.60	JETS (mm)	3x15.9	INTAKE DENSITY (kg/m ³)	54.5	54.3
1	Tars	4.86	DEPTH OUT (m)		OVERFLOW DENSITY (kg/m ³)	53.5	
12	178 D.C.	114.39	DEPTH IN (m)	15.77	MUD MATERIALS ADDED		
1	X/O	1.42	TOTAL METRES DRILLED (m)	269	PRODUCT	AMOUNT X UNIT	
9	H.W.D.	82.77	TOTAL HOURS RUN	53 1/2	Floplex	11 SX	
			CUTTING STRUCTURE		Potassium	31 SX	
55	D.P.	STANDS 1575.34	T. T ₀ MDC LOC B Gage OOC Reason Pulled Total Run m/hr.				
	D.P.	SINGLES					
	STICK UP	8.56	HOLE CONDITION				
	TOTAL	1846	HOLE DRAG	30000 30000L			
WT. OF DC	29000	1000 gals	TORQUE AT BOTTOM	10496 FT/LBS			
WT. OF STRING	75000	1000 gals	FILL ON BOTTOM (m)				

NO.	DRILLING ASSEMBLY (At End of Tour)	LENGTH	BIT NO.	3	MUD TYPE	WATER BASED	OIL BASED
1	BIT	Q.D. mm	1.25	SIZE (mm)	222	TIME	18:00 21:00 24:00
1	Motor	7.83	ADOC CODE	4/3/7/C	DENSITY kg/m ³	1210	1210
1	12.5 D.C.	14.64	MFG	Smith	FUNNEL VIS. - (S/L)		
2	NMDC	18.65	TYPE	F10TP	W.L. (cm ²)	8.0	7.5
1	X/O	3.30	SERIAL NO.	LT7094	pH	9.5	10.0
5	178 D.C.	47.60	JETS (mm)	3x15.9	INTAKE DENSITY (kg/m ³)	51.9	52.7
1	Tars	4.86	DEPTH OUT (m)		OVERFLOW DENSITY (kg/m ³)	55.2	
12	178 D.C.	114.39	DEPTH IN (m)	15.77	MUD MATERIALS ADDED		
1	X/O	1.42	TOTAL METRES DRILLED (m)	295	PRODUCT	AMOUNT X UNIT	
9	H.W.D.	82.77	TOTAL HOURS RUN	60 3/4	Caustic	1 SX	
			CUTTING STRUCTURE		Potassium	32 SX	
55	D.P.	STANDS 1575.34	T. T ₀ MDC LOC B Gage OOC Reason Pulled Total Run m/hr.		Floplex	14 SX	
XX	D.P.	SINGLES 19.13			Soda Ash	1 SX	
	STICK UP	1.69	HOLE CONDITION				
	TOTAL	1872	HOLE DRAG				
WT. OF DC	29000	1000 gals	TORQUE AT BOTTOM	9141 FT/LBS			
WT. OF STRING	78000	1000 gals	FILL ON BOTTOM (m)				

NO.	DRILLING ASSEMBLY (At End of Tour)	LENGTH	BIT NO.	3	MUD TYPE	WATER BASED	OIL BASED
1	BIT	Q.D. mm	1.25	SIZE (mm)	222	TIME	09:00 12:00 15:00
1	Motor	7.83	ADOC CODE	4/3/7/C	DENSITY kg/m ³	1200	1200
1	12.5 D.C.	14.64	MFG	Smith	FUNNEL VIS. - (S/L)		
2	NMDC	18.65	TYPE	F10TP	W.L. (cm ²)	7.5	8.0
1	X/O	3.30	SERIAL NO.	LT7094	pH	10.5	10.0
5	178 D.C.	47.60	JETS (mm)	3x15.9	INTAKE DENSITY (kg/m ³)	54.5	54.3
1	Tars	4.86	DEPTH OUT (m)		OVERFLOW DENSITY (kg/m ³)	53.5	
12	178 D.C.	114.39	DEPTH IN (m)	15.77	MUD MATERIALS ADDED		
1	X/O	1.42	TOTAL METRES DRILLED (m)	269	PRODUCT	AMOUNT X UNIT	
9	H.W.D.	82.77	TOTAL HOURS RUN	53 1/2	Floplex	11 SX	
			CUTTING STRUCTURE		Potassium	31 SX	
55	D.P.	STANDS 1575.34	T. T ₀ MDC LOC B Gage OOC Reason Pulled Total Run m/hr.				
	D.P.	SINGLES					
	STICK UP	8.56	HOLE CONDITION				
	TOTAL	1846	HOLE DRAG	30000 30000L			
WT. OF DC	29000	1000 gals	TORQUE AT BOTTOM	10496 FT/LBS			
WT. OF STRING	75000	1000 gals	FILL ON BOTTOM (m)				

NO.	DRILLING ASSEMBLY (At End of Tour)	LENGTH	BIT NO.	3	MUD TYPE	WATER BASED	OIL BASED
1	BIT	Q.D. mm	1.25	SIZE (mm)	222	TIME	09:00 12:00 15:00
1	Motor	7.83	ADOC CODE	4/3/7/C	DENSITY kg/m ³	1200	1200
1	12.5 D.C.	14.64	MFG	Smith	FUNNEL VIS. - (S/L)		
2	NMDC	18.65	TYPE	F10TP	W.L. (cm ²)	7.5	8.0
1	X/O	3.30	SERIAL NO.	LT7094	pH	10.5	10.0
5	178 D.C.	47.60	JETS (mm)	3x15.9	INTAKE DENSITY (kg/m ³)	54.5	54.3
1	Tars	4.86	DEPTH OUT (m)		OVERFLOW DENSITY (kg/m ³)	53.5	
12	178 D.C.	114.39	DEPTH IN (m)	15.77	MUD MATERIALS ADDED		
1	X/O	1.42	TOTAL METRES DRILLED (m)	269	PRODUCT	AMOUNT X UNIT	
9	H.W.D.	82.77	TOTAL HOURS RUN	53 1/2	Floplex	11 SX	
			CUTTING STRUCTURE		Potassium	31 SX	
55	D.P.	STANDS 1575.34	T. T ₀ MDC LOC B Gage OOC Reason Pulled Total Run m/hr.				
	D.P.	SINGLES					
	STICK UP	8.56	HOLE CONDITION				
	TOTAL	1846	HOLE DRAG	30000 30000L			
WT. OF DC	29000	1000 gals	TORQUE AT BOTTOM	10496 FT/LBS			
WT. OF STRING	75000	1000 gals	FILL ON BOTTOM (m)				

NO.	DRILLING ASSEMBLY (At End of Tour)	LENGTH	BIT NO.	3	MUD TYPE	WATER BASED	OIL BASED
1	BIT	Q.D. mm	1.25	SIZE (mm)	222	TIME	09:00 12:00 15:00
1	Motor	7.83	ADOC CODE	4/3/7/C	DENSITY kg/m ³	1200	1200
1	12.5 D.C.	14.64	MFG	Smith	FUNNEL VIS. - (S/L)		
2	NMDC	18.65	TYPE	F10TP	W.L. (cm ²)	7.5	8.0
1	X/O	3.30	SERIAL NO.	LT7094	pH	10.5	10.0
5	178 D.C.	47.60	JETS (mm)	3x15.9	INTAKE DENSITY (kg/m ³)	54.5	54.3
1	Tars	4.86	DEPTH OUT (m)		OVERFLOW DENSITY (kg/m ³)	53.5	
12	178 D.C.	114.39	DEPTH IN (m)	15.77	MUD MATERIALS ADDED		
1	X/O	1.42	TOTAL METRES DRILLED (m)	269	PRODUCT	AMOUNT X UNIT	
9	H.W.D.	82.77	TOTAL HOURS RUN	53 1/2	Floplex	11 SX	
			CUTTING STRUCTURE		Potassium	31 SX	
55	D.P.	STANDS 1575.34	T. T ₀ MDC LOC B Gage OOC Reason Pulled Total Run m/hr.				
	D.P.	SINGLES					
	STICK UP	8.56	HOLE CONDITION				
	TOTAL	1846	HOLE DRAG	30000 30000L			
WT. OF DC	29000	1000 gals	TORQUE AT BOTTOM	10496 FT/LBS			
WT. OF STRING	75000	1000 gals	FILL ON BOTTOM (m)				

115401

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LICENCE NO.:	WELL NAME AND NO.:
OPERATOR:	CONTRACTOR:
SURFACE LOCATION:	UNIQUE ID.:
SIGNATURE OF OPERATOR'S REPRESENTATIVE:	SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H/S Signs Posted (if required)	Initial	Initial
(4) Well License & Stock Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually Inspect BOP's - Flammables & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crow/month)	Initial	Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/crow/month)	Initial	Initial
(3) Mast Inspection Before Raising or Lowering	Initial	Initial
(4) Crown Saver Checked	Initial	Initial
(5) Motor Check	Initial	Initial

YEAR	MONTH	DAY	LAST	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL (m) LENGTH	KB TO CSG HEAD (m)	SET AT (m)
2019	02	23	CASING	244.6	226.5	53.6	Arundential	J55	41	537.43	6.45	535
RIG NO.	FUEL @ 8:00	OR	LINEAR	GRADE	MIN. I.D. (mm)	TOOL JOINT O.D. (mm)	TYPE	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)	
1.41	BOILER	TEMPERATURE °C	DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. I.D. (mm)	TOOL JOINT O.D. (mm)	TYPE	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
		CURRENT CONDITIONS	127	74.35	HW	78	160	44.1F	9	F-1000	EmSCO	254
		WIND DIRECTION	127	29.07	ER	108	165	1	110	F-1000	EmSCO	254
		ROAD	127	83.07	ES	108	165		142			

T I M E - H R S	CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTALS	SHALE SHAKER(S)		RENTALS/SERVICES			MORE	DAY	EVE	
	OPR.	RIG UP & TEST	DRILL ACTUAL	HEATING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV SURVEY	WIRE LINE LOGS	RUN CASE & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MTG.								NO. TYPE							
																													8	2 Derrick	FLC	Total MTS	24378				
	MORN.		7					1/4			3/4																		8	SCREENS CHANGED	☐ YES ☒ NO	Accum MTS	6015				
	DAY		6 1/4					1/4			1 1/2																		8	TOP	210	TOP	SH				
	EVE		2 1/4				3/4				1																		8	MIDDLE	250	MIDDLE	SH				
	TOTAL		17 1/2				3/4		1/2		3 1/4																	24	BOTTOM	250	BOTTOM	SH	Accum OIL	0.32			

DRILLING ASSEMBLY (At End of Tour)		LENGTH	BIT RECORD		MUD RECORD			
NO.	BIT	O.D. (mm)	BIT NO.	SIZE (mm)	MUD TYPE	WATER BASED	OIL BASED	
1	MOTOR	7.93	3	222	TIME	02:00	04:00	06:00
1	FLY SUB	51.64			DENSITY kg/m³	1190	1185	1190
2	NMDC	18.65			FUNNEL VIS. (SL)			
1	%	30			W.L. (cm³)	7.7	7.6	8.0
5	178 X	47.60			pH	10.0	10.0	10.0
1	Jars	4.96			PTM³	52.6	54.2	54.6
12	178 DC	114.39			MUD MATERIALS ADDED			
1	%	1.42			PRODUCT	AMOUNT X UNIT	DESILTER	
9	HWDP	82.77			Floplex	5 v		
		BHA 279.22			Potassium	28 v		
90	D.P.	STANDS 1431.69			CUTTING STRUCTURE	CENTRIFUGE		
X	D.P.	SINGLES 9.82			T ₁ T ₂ MDC LOC B Gage ODC Reason Pulled Total Run m/hr.			
	STICK KELLY DOWN	4.73			HOLE CONDITION			
	TOTAL	1716			HOLE DRAG 35000 FT/15000 FT/10000 FT			
WT.OFDC		29000			TORQUE AT BOTTOM 9100 FT. LBS.			
WT.OFSTRING		70000			FILL ON BOTTOM (m)			

DRILLING ASSEMBLY (At End of Tour)		LENGTH	BIT RECORD		MUD RECORD			
NO.	BIT	O.D. (mm)	BIT NO.	SIZE (mm)	MUD TYPE	WATER BASED	OIL BASED	
1	MTR	7.93	3	222	TIME	09:00	12:00	15:00
1	FLY SUB	51.64			DENSITY kg/m³	1195	1190	1195
2	NMDC	18.65			FUNNEL VIS. (SL)			
1	%	30			W.L. (cm³)	8.0	8.0	8.0
5	178 DC	47.60			pH	10.0	10.0	10.0
1	Jars	4.96			PTM³	48.2	50.1	56.4
12	178 DC	114.39			MUD MATERIALS ADDED			
1	%	1.42			PRODUCT	AMOUNT X UNIT	DESILTER	
9	HWDP	82.77			Visplex	4 sx		
		BHA 279.22			Floplex	16 sx		
51	D.P.	STANDS 1460.45			Potassium	48 sx		
XX	D.P.	SINGLES 19.27			Pre-mix	6 m³		
	STICK KELLY DOWN	7.94			HOLE CONDITION			
	TOTAL	1751			HOLE DRAG 27000 FT/18000 FT/10000 FT			
WT.OFDC		29000			TORQUE AT BOTTOM 9800 FT/LBS			
WT.OFSTRING		73000			FILL ON BOTTOM (m)			

DRILLING ASSEMBLY (At End of Tour)		LENGTH	BIT RECORD		MUD RECORD			
NO.	BIT	O.D. (mm)	BIT NO.	SIZE (mm)	MUD TYPE	WATER BASED	OIL BASED	
1	MOTOR	7.93	3	222	TIME	18:00	21:00	24:00
1	FLY SUB	51.64			DENSITY kg/m³	1190	1195	1195
2	NMDC	18.65			FUNNEL VIS. (SL)			
1	%	30			W.L. (cm³)	7.5	7.2	8.0
5	178 DC	47.60			pH	10.0	10.5	10.5
1	Jars	4.96			PTM³	56.4	55.4	54.5
12	178 DC	114.39			MUD MATERIALS ADDED			
1	%	1.42			PRODUCT	AMOUNT X UNIT	DESILTER	
7	HWDP	82.77			Floplex	5 v		
		BHA 279.22			Potassium	20 v		
53	D.P.	STANDS 1578.00			CUTTING STRUCTURE	CENTRIFUGE		
	D.P.	SINGLES			T ₁ T ₂ MDC LOC B Gage ODC Reason Pulled Total Run m/hr.			
	STICK KELLY DOWN	15.22			HOLE CONDITION			
	TOTAL	1782			HOLE DRAG 20000 FT/10000 FT/10000 FT			
WT.OFDC		29000			TORQUE AT BOTTOM 10000 FT/LBS			
WT.OFSTRING		73000			FILL ON BOTTOM (m)			

METRES DRILLED		TIME LOG		DETAILS OF OPERATION IN SEQUENCE AND REMARKS			
FROM	TO	ELAP. TIME	CODE NO.	FROM	TO		
1695	1716	31	MTR	00:00	02:45	2 1/2	Drill 1685m - 1697m
				02:45	03:00	1/4	K/S function 157m pipe 8sec VRSPP
				03:00	07:15	4 1/2	Drill 1697m - 1716m
				07:15	08:00	3/4	Acc. Surveys
REDUCED PUMP SPEED							
DEVIATION SURVEY							
DEPTH (m)	DEVIATION (°)	DIRECTION					
1677.68	23.7	350.2					
1687.33	22.6	350.9					
1696.91	20.3	351.6					
DRILLER SIGNATURE				NOTES			
				✓ Crown Saver, Fastline Clamp, Deadline Anchor			

METRES DRILLED		TIME LOG		DETAILS OF OPERATION IN SEQUENCE AND REMARKS			
FROM	TO	ELAP. TIME	CODE NO.	FROM	TO		
1716	1751	35	30	08:00	12:45	4 3/4	2 Drill 222mm hole F/1716m - 1739m
				12:45	13:00	1/4	7 Rig Service, function Top pipe 8sec
				13:00	14:30	1 1/2	2 Drill 1739m - 1751m
				14:30	16:00	1 1/2	10 Acc. Surveys
REDUCED PUMP SPEED							
DEVIATION SURVEY							
DEPTH (m)	DEVIATION (°)	DIRECTION					
1706.73	18.9	348.79					
1716.18	18.7	350.11					
1725.67	18.5	349.57					
1716	check shot	345.7					
1735.26	16.9	346.68					
DRILLER SIGNATURE				NOTES			
				✓ Crown Saver, deadline anchor, fastline clamp function Remote choke			

METRES DRILLED		TIME LOG		DETAILS OF OPERATION IN SEQUENCE AND REMARKS			
FROM	TO	ELAP. TIME	CODE NO.	FROM	TO		
1751	1782	31	30	16:00	21:45	5 1/4	2 Drill 222mm hole F/1751m - 1778m
				21:45	22:30	3/4	5 Work light hole
				22:30	23:00	1/2	2 Drill 1778m
				23:00	24:00	1	10 Acc. Surveys
REDUCED PUMP SPEED							
DEVIATION SURVEY							
DEPTH (m)	DEVIATION (°)	DIRECTION					
1740.6	CR. SHOT						
1744.94	15.2	344.57					
1754.41	12.8	346.68					
1764.05	10.2	344.57					
DRILLER SIGNATURE				NOTES			
				✓ Crown Saver, Deadline Anchor, Fastline Clamp			

115400

LICENSE NO.:	WELL NAME AND NO.:
	Suncor Natla K-77-60-50-122-30
OPERATOR:	CONTRACTOR:
Suncor Energy	Akita Drilling LTD
SURFACE LOCATION:	UNIQUE ID.:
K-77-60-50-122-30	300-K-77-060-500-122-30
SIGNATURE OF OPERATOR'S REPRESENTATIVE:	SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial _____	Initial _____
(2) Detailed Inspection-Weekly (using checklist)	Initial _____	Initial _____
(3) H/S Signs Posted (if required)	Initial _____	Initial _____
(4) Walk Lenses & Clock Diagrams Posted	Initial _____	Initial _____
(5) Flame Lines Skipped	Initial _____	Initial _____
(6) BOP Drills Performed	Initial _____	Initial _____
(7) Visually inspect BOP's - Flarelines & Degasser Lines	Initial _____	Initial _____
(1) Rig Site Health and Safety Meeting (one/one/month)	Initial _____	Initial _____
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/month)	Initial _____	Initial _____
(3) Must Inspection Before Raising or Lowering	Initial _____	Initial _____
(4) Crown Saver Checked	Initial _____	Initial _____
(5) Motor Kills checked	Initial _____	Initial _____

YEAR	MONTH	DAY	LAST	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KG. TO CSG HEAD (m)	SET AT (mm)
97	02	28	CASING	244.5	226.5	53.6	Prudential	J55	41	537.43	6.45	535
RIG NO.	58			TUBING								
FUEL @ 8:00												
RIG	1.71		BOILER	LINER								

W E A T H E R	TEMPERATURE	°C	DG/DI SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JOINT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER		STROKE LTH. (mm)
	CURRENT CONDITIONS	127		127	79.35	HW	78	160	1/2" IF	9	F-1000	Emsco	
WIND DIRECTION	127		127	29.02	E2	109	165	1	110	F-1000	Emsco		254
ROAD	127		127	78.69	E3	109	165		142				

TIME - HRS	CODE NO.	DATE																										TOTALS	SHALE SHAKER(S)		RENTALS/SERVICES				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26		NO. 2 TYPE	ACCUM	DAY	EVE			
OPER.		RIG UP & TEAR DOWN	DRILL ACTUAL	REAMING	CORING	CONC. MUD & CIRC	TRIPS	R/O SERVICE	REPAIR RIG	OUT OFF DRILL LINE	DEV SURVEY	WIRE LINE LOGS	RUN CASE & CEMENT	WASH ON CEMENT	TRIPLE UP R.O.P.	TEST B.G.P.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIV. WORK	SAFETY MTG.													
MORN.			6 3/4					1/4																						8	SCREENS CHANGED ☐ YES ☒ NO	Accum MTS 23719			
DAY			2 1/2				4 1/2	1/4		3 1/4																				8	TOP 210	TOP 84	Accum MTS 5354		
EVE			3/4			1/4	5 1/4														1 3/4	1/2							8	MIDDLE 250	MIDDLE 84				
TOTAL			10			1/4	9 3/4	1/2		1 3/4											1 3/4	1/2							24	BOTTOM 250	BOTTOM 84	Accum Oil = .32			

DRILLING ASSEMBLY (At End of Tour)				BIT RECORD										MUD RECORD				
NO.	BIT		Q.D. mm	LENGTH	BIT NO.					MUD TYPE		☒ WATER BASED		☐ OIL BASED				
1	BIT			.25 m	3													
1	MOTOR			7.83 m	SIZE (mm)	222				TIME		02.10		04.10				
1	FIGHT SUB			51.64 m	IADC CODE	4 3 7 C				DENSITY kg/m ³		1195		1180				
2	N.M.D.C.			18.15 m	MFG.	Smith				FUNNEL VIS. - (SL)								
1	3/4			.30 m	TYPE	F10TP				W.L. (cm ²)		2.3		6.6				
5	178 DC			47.60 m	SERIAL NO.	LT7094				pH		10.5		10.5				
1	TARS			4.86 m	JETS (mm)	3x15.9				pH		50.5		47.4				
12	178 DC			114.39 m	DEPTH OUT (m)					MUD MATERIALS ADDED		SOLIDS CONTROL						
1	3/4			1.42 m	DEPTH IN (m)	1577				PRODUCT		AMOUNT X UNIT		DESILTER				
9	HWD P			82.27 m	TOTAL METRES DRILLED (m)	68				F10TP		18 x 5		HOURS RUN				
	BHA =			277.22 m	TOTAL HOURS RUN	17 1/2				Potassium		40 x 5		INTAKE DENSITY (kgm.)				
49	D.P.	STANDS		1402.78 m	CUTTING STRUCTURE				B	Gage	ODC	Reason Pulled	Total Run m/hr.	CENTRIFUGE #1				
	D.P.	SINGLES											503	HOURS RUN				
STEEL KILLYDOWN				17.00 m	HOLE CONDITION										8		1180	
TOTAL				1665 m	HOLE DRAG 10000' 8000'												1090	
WT. OF DC				29000	TORQUE AT BOTTOM 10200 FT. LBS.												1180	
WT. OF STRING				18000	FILL ON BOTTOM (m)												1095	

METRES DRILLED						TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS			
FROM	TO	DRD RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daq)		FROM	TO	ELAP. TIME	CODE NO.				
1630	1665	35		12.24		00:00	02:45	2 1/2	2	Drill	1630m-1643m		
				12.24		02:45	03:00	1/4	7	R/S Function Remote Choke	✓KSPP		
				12.24		03:00	07:00	4	2	Drill	1643m-1665m		
				12.24		07:00	08:00	1	10	Acc. Surveys			
CIRCULATION PRESSURE (kPa)						PUMP NO. 1		PUMP NO. 2					
						LINER SIZE (mm)	S.P.M.	LINER SIZE (mm)	S.P.M.				
8900						152	90	152					
REDUCED PUMP SPEED													
5100 @ 36 @													
DEVIATION SURVEY													
DEPTH (m)		DEVIATION (°)		DIRECTION									
1619.93		26.2		341.76									
1629.64		25.6		341.76									
1639.15		25.5		341.05									
1648.63		25.0		341.76									
NOTES						✓ Crown Saver, Partline Clamp, Deadline Anchor							
DRILLER SIGNATURE						BOILER		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		M.A.C.P.	
20c-1-1-1						HRS. RUN	ph	STACK TEMP.					
						8	10	230	28000				3490

DRILLING ASSEMBLY (At End of Tour)				LENGTH		BIT RECORD						MUD RECORD					
NO	BIT 222		O.D. mm	25	BIT NO.	3					MUD TYPE		WATER BASED		OIL BASED		
1	MTK			7.83	SIZE (mm)	222					TIME	09:00	12:00	15:00			
1	Float Sub			1.51	IADC CODE	437C					DENSITY kg/m ³	1185	T				
1	4BH0			1.64	MFQ.	Smith					FUNNEL VIS. - (S/L)	R					
2	NMOC			16.65	TYPE	F10TP					W.L. (cm)	7.0	1				
1	X10			1.30	SERIAL NO.	LT7094					pH	10.5		P			
5	178 D.C.			47.60	JETS (mm)	3x15.9					PVT M ³	53.2					
1	JATS			4.86	DEPTH OUT (m)						MUD MATERIALS ADDED		SOLIDS CONTROL				
12	178 D.C.			114.34	DEPTH IN (m)	1577					PRODUCT	AMOUNT X UNIT	DESILTER				
1	X10			1.42	TOTAL METRES DRILLED (m)	104					Caustic	1 sx	HOURS RUN	INTAKE DENSITY (g/cm ³)	OVERFLOW DENSITY (g/cm ³)	UNDERFLOW DENSITY (g/cm ³)	
9	H.W.			82.7	TOTAL HOURS RUN	20					Floplex	5 sx					
	BHA 279.22								Potassium	27 sx	CENTRIFUGE						
	D.P.	STANDS			CUTTING STRUCTURE				B	Gage	ODC	Reason Pulled	Total Run m/hr.				
44	D.P.	SINGLES		1402.76	T ₁	T ₂	MOD	LOC						HOURS RUN	INTAKE DENSITY (g/cm ³)	OVERFLOW DENSITY (g/cm ³)	UNDERFLOW DENSITY (g/cm ³)
	STILL DOWN			1.00	HOLE CONDITION												
	TOTAL			1681	HOLE DRAG				12000 ↑ 13000 ↓								
WT. OF DC				29000	TORQUE AT BOTTOM												
WT. OF STRING				68000	FILL ON BOTTOM (m)												

METRES DRILLED						TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS			
FROM	TO	D.R.D. P.M.R. CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 LBS)	FROM	TO	ELAR. TIME	CODE NO					
1665	1681	16			08:00	10:30	2 1/2	2	Dr. 11 222mm hole F/1665m-1681m				
		MR 90		2 3/4	10:30	11:15	3/4	10	Acc. Surveys				
					11:15			6	Pump out 5 STDs D.P. ✓ Flow, P.O.H				
						13:00	1 3/4		15 STDs.				
					13:00	13:15	1/4	7	Rig Service, func. Ann 21 sec. Flow mud line				
					13:15	16:00	2 3/4	6	P.O.H 25 STDs ✓ Flow, P.O.H ✓ Flow @ H.W.T.				
REDUCED PUMP SPEED													
5200	@	50	@										
DEVIATION SURVEY													
DEPTH (m)	DEVIATION (°)	DIRECTION											
1658.32	24.3	343.16			Trip Record Cal 9.57 m³								
1668					Act 10.02 m³								
1668	23.9	336.68			Diff +.45 m³								
					NOTES ✓ Crown Saver, dead line anchor, fast line clamp								
DRILLER SIGNATURE					BOILER		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		M.A.C.P.		
R. C. C.					HRS. RAN ph STACK TEMP.		105000		Blowers/Regulations		3490		

DRILLING ASSEMBLY (At End of Tour)				BIT RECORD										MUD RECORD			
NO.	LENGTH		BIT NO.		MUD TYPE		☒ WATER BASED		☐ OIL BASED								
1	BIT	O.D. metr	25	m	3												
1	motor		7.63	m	SIZE (mm)	222					TIME			24 12			
1	Flange sub		51.16	m	WDC CODE	4 3 7 c					DENSITY kg/m ³			1175			
2	Nmde		18.15	m	MFG.	Smith					FUNNEL VIS. - (SL)						
1	%		30	m	TYPE	FlotP					W.L. (cm ³)			7.2			
5	128 DE		47.10	m	SERIAL NO.	LT7094					pH			9.5			
1	Jars		4.96	m	JETS (mm)	3 x 15.9					MUTALS			52.8			
12	128 DE		114.39	m	DEPTH OUT (m)						MUD MATERIALS ADDED		SOLIDS CONTROL				
1	%		112	m	DEPTH IN (m)	15.77					PRODUCT	AMOUNT X UNIT	DESILIER				
9	NWDP		52.77	m	TOTAL METRES DRILLED (m)	108							HOURS RUN	INTAKE DENSITY (g/cm ³)			
			BHA 279.22	m	TOTAL HOURS RUN	20 1/4							OVERFLOW DENSITY (g/cm ³)	UNDERFLOW DENSITY (g/cm ³)			
49	D.P.	STANDS		m	CUTTING STRUCTURE												
				m	T ₁	T ₂	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.				
xx	D.P.	SINGLES	1422.11	m													
KELLYDOWN					HOLE CONDITION												
TOTAL																	
WT.OF DC					HOLE DRAG 13000 10000												
WT.OF STRING					TORQUE AT BOTTOM												
					FILL ON BOTTOM (m)												

METRES DRILLED					TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS			
FROM	TO	DRD RMR CORRECTION	ROTARY R.P.M.	WT. ON BIT (TONS)	FROM	TO	ELAP. TIME	CODE NO.				
1691	1685	4	117	70	16:00	17:00	1	6	RAH BHA VFlow on Bank, Blinds 7 sec			
			90	70	17:00			20	VBit + motor, set angle on motor to 2.123			
CIRCULATION PRESSURE (KPa)		PUMP NO. 1		PUMP NO. 2	17:45		34		Service MWD			
LINE SIZE (mm)		S.P.M.		LINE SIZE (mm)	17:45		18:15	1/2	21 Hold safety meeting w/ views + Akiba Field sup.			
8900		152		90	18:15		22:30	4/4	6 VFlow R.I.H. to 1624 Flow 830m			
REDUCED PUMP SPEED					22:30		23:45	1/4	5 Bk. C. r. Ca 1624m Wash to BTHm.			
4800		@		50	23:45		23:15	1/2	20 Current motor & survey			
DEVIATION SURVEY					23:15		24:00	3/4	2 Drill 1681m - 1685			
DEPTH (m)		DEVIATION (°)		DIRECTION								
NOTES					Krown Saver Fastline Clamp Deadline Anchor							
DRILLER SIGNATURE					BOILER		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		M.A.C.P.	
[Signature]					HRS. RAN		STACK TEMP					
					8		10				3464	

115399

LICENCE NO.:	WELL NAME AND NO.:
	Suncor Natla K-77-60-50-122-30
OPERATOR:	CONTRACTOR:
Suncor Energy	Akita Drilling LTD
SURFACE LOCATION:	UNIQUE ID.:
K-77-60-50-122-30	300-K-77-060-500-122-30
SIGNATURE OF OPERATOR'S REPRESENTATIVE:	SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) HPS Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/ming/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR	MONTH	DAY	LAST	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
99	08	21	CASING	244.5	226.5	53.6	Prudential	J55	41	537.43	6.45	535
RIG NO.	58		TUBING									
FUEL @ 8:00			OR									
RIG	2.06		LINER									
BOILER												
WEATHER	TEMPERATURE	°C	DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
	CURRENT CONDITIONS		127	74.35	HW	78	160	1/2" IF	9	F-1000	Emsco	254
	WIND DIRECTION		127	74.02	E2	105	165	1	110	F-1000	Emsco	254
	ROAD		127	74.02	E3	105	165	1	110	F-1000	Emsco	254

TIME - HRS	CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL	SHALE SHAKER(S)		RENTALS/SERVICES		MORN	DAY	
		RIG UP & TEAR DOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV SURVEY	WIRE LINE LOGS	RUN CASE & CEMENT	WAT ON CEMENT	MURPLE UP B.O.P.	TEST B.O.P.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MTG.	Handle Tools						NO. TYPE		Total				
MORN.						5	1/4																2 3/4					8	2 Derrick	FLC		Total	MJ 21946		
DAY						1/2	2 1/2	1/4			1/2									3/4			2 3/4					8	SCREENS CHANGED	☒ YES ☐ NO		Accum. MJ	3485		
EVE			3 1/2																									8	TOP	2 10V	TOP				
			7 1/4								3/4																	8	MIDDLE	2 30	MIDDLE				
TOTAL			10 3/4			1/2	7 1/4	1/2			1 1/4									3/4			2 3/4					24	BOTTOM	2 30	BOTTOM		Accum. OIL = .32		

DRILLING ASSEMBLY (At End of Tour)				BIT RECORD							MUD RECORD			
NO.	LENGTH		BIT NO.	SIZE (mm)			MUD TYPE				☐ WATER BASED		☐ OIL BASED	
	BIT	O.D. mm												
1	1/2" x 1/2" sub	1.53	3	222										
1	1/2" x 1/2" sub	1.53	3	222										
2	1/2" x 1/2" sub	1.53	3	222										
1	1/2" x 1/2" sub	1.53	3	222										
5	1/2" x 1/2" sub	1.53	3	222										
1	1/2" x 1/2" sub	1.53	3	222										
12	1/2" x 1/2" sub	1.53	3	222										
1	1/2" x 1/2" sub	1.53	3	222										
9	1/2" x 1/2" sub	1.53	3	222										
BHA = 279.22m				CUTTING STRUCTURE				CENTRIFUGE						
				HOLE CONDITION										
				HOLE DRAG										
				TORQUE AT BOTTOM										
				FILL ON BOTTOM (m)										

METRES DRILLED					TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS			
FROM	TO	G.R.O. P.M.R. CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 LBS)	FROM	TO	ELAP. TIME	CODE NO.				
1577					00:00	04:00	4	6	P.O.C.H. Flow ✓ 20" H ₂ O out of hole			
					04:00	05:00	1	22	Lay Down MWD Tool Break Bit 4/5 Motor			
CIRCULATION PRESSURE (kPa)	PUMP NO. 1	PUMP NO. 2			05:00	06:45	13	22	Ply Motor & Orient Motor & MWD Tools			
	LINER SIZE (mm)	S.P.M.	LINER SIZE (mm)	S.P.M.	06:45	07:00	14	7	Rig Service Function Blind Rams BSec			
	152			152	07:00	08:00	1	6	Make up Bit #3 & R.I.H.			
REDUCED PUMP SPEED												
	@		@									
DEVIATION SURVEY												
DEPTH (m)	DEVIATION (°)		DIRECTION									
TRIP? Record	11.84											
Cal	12.11											
mea	12.27											
Diff					NOTES Verona Saver Fastline Clamp, Deadline Anchor							
DRILLER SIGNATURE					BOILER		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		M.A.C.P.	
					HRS. RAN	ph	STACK TEMP.					
					8	115	230					

DRILLING ASSEMBLY (At End of Tour)				BIT RECORD										MUD RECORD						
NO.	BIT	O.D. mm	LENGTH m	BIT NO.	SIZE (mm)					MUD TYPE					☒ WATER BASED		☐ OIL BASED			
1	MTK		2.83		222					TIME					02:00	04:00	08:00			
1	Float sub		.51		437C					DENSITY kg/m ³					1190	1180	1190			
	H8H0		.64		MFG. Smith					FUNNEL VIS. - (S/L)										
2	NMDC		18.65		TYPE FIOTP					W.L. (cm ³)					8.0	8.0	8.5			
1	X10		1.30		SERIAL NO. LT7094					pH					10.0	10.0	10.5			
5	178 D.C.		47.60		NETS (mm) 3/16"					PVTM ³					45.6	46.0	45.8			
1	Jars		4.86		DEPTH OUT (m) 15.27					MUD MATERIALS ADDED					SOLIDS CONTROL					
12	178 D.C.		14.39		DEPTH IN (m) 15.77					PRODUCT					AMOUNT X UNIT		DESILTER			
1	X10		1.42		TOTAL METRES DRILLED (m) 20					Caustic					25x					
9	H.W.		82.77		TOTAL HOURS RUN 3 1/2					Floplex					95x					
			BHA= 27.27		CUTTING STRUCTURE					Potassium					235x					
46	D.P.	STANDS	1316.94		T ₁	T ₂	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.	5.7	CENTRIFUGE					
X	D.P.	SINGLES	9.60																	
stick KELLY DOWN			8.81	HOLE CONDITION																
TOTAL			1597	HOLE DRAG 13000↑ 13000↓																
WT. OF DC			29000	TORQUE AT BOTTOM 8800 FT/LBS																
WT. OF STRING			13000	FILL ON BOTTOM (m) 11.1																

METERS DRILLED					TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS				
FROM	TO	R.P.D. CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 lbs)	FROM	TO	ELAP TIME	CODE NO					
1577	1917	20	30	1430	08:00	08:30	1/2	6	R.I.H TO 565m				
		20	MIR 90	1432	08:30	09:00	1/2	20	Conduct shallow Test				
					09:00			6	R.I.H TO 970m Tag, break circ, wash to 984m				
						1100	2		R.I.H. TO 1300 break circ. R.I.H TO 1528m				
4200	1532	90			11:00	11:30	1/2	5	Break circ + Wash team F/1528-1577m				
REDUCED PUMP SPEED					11:30	11:45	1/4	20	Correct Tool Face				
5400	@	30	@		11:45	13:30	1 3/4	2	Drill 222mm hole F/1577m-1586m				
DEVIATION SURVEY					13:30	13:45	1/4	7	Rig Service, function Bot pipe 8sec				
DEPTH (m)	DEVIATION (°)	DIRECTION			13:45	15:30	1 3/4	2	Drill 1586m - 1597m				
1572.61	28.5	338.24			15:30	16:00	1/2	10	Acc. Surveys				
1582.21	28.2	338.95											
					NOTES ✓ Crown Saver, deadline anchor, fast line clamp function Remote choke								
DRILLER SIGNATURE					BOILER HRS. RAN		ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		M.A.C.P.
					3				45200				3434

DRILLING ASSEMBLY (At End of Tour)				BIT RECORD				MUD RECORD					
NO.	BIT	Q.D. mm	LENGTH	BIT NO.	SIZE (mm)	MUD TYPE		WATER BASED		OIL BASED			
1	Motor		2.83	3	222	TIME		20.10	22.10	24.10			
1	Flange Sub		1.51			DENSITY kg/m ³		1170	1190	1170			
2	NMDL		18.25			FUNNEL VIS. (S/L)							
1	%		.30			W.L. (cm ²)		8.5	8.2	8.0			
5	DB DC		47.60			pH		10.0	10.5	10.5			
1	Jars		4.96										
12	DB DC		114.39			MUD MATERIALS ADDED		SOLIDS CONTROL					
1	%		1.42			PRODUCT		AMOUNT X UNIT		DESILER			
9	HWDP		82.77			TOTAL METRES DRILLED		10.5 x 3		HOURS RUN	INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)
		BHA	274.22			TOTAL HOURS RUN		29.12.1.					
47	D.P.	STANDS		CUTTING STRUCTURE				CENTRIFUGE					
xx	D.P.	SINGLES	1364.42	T ₁	T ₂	MOC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.	
REELLY DOWN			13.64	HOLE CONDITION				HOURS RUN		INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)	
TOTAL			1630	HOLE DRAG				8		1115	1105		
WT. OF DC			24000	TORQUE AT BOTTOM				HOURS RUN		INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)	
WT. OF STRING			67000	FILL ON BOTTOM (m)				8		1115	1115		

METRES DRILLED					TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS			
FROM	TO	TRD TRD CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)	FROM	TO	ELAP. TIME	CODE NO.				
1597	1630	33	30	1920	16:00	23:15	74	2	Drill 222mm hole 1597m - 1630m			
		31.4	30	2920	23:15	24:06	74	10	Acc. Surveys			
CIRCULATION PRESSURE (kPa)		PUMP NO. 1		PUMP NO. 2								
		LINER SIZE (mm)	S.P.M.	LINER SIZE (mm)	S.P.M.							
1400		152	70									
REDUCED PUMP SPEED												
5400		@	50	@								
DEVIATION SURVEY												
DEPTH (m)		DEVIATION (°)		DIRECTION								
1591.81		28.3		339.65								
1601.39		27.9		340.35								
1610.64		27.2		340.35								
NOTES												
Korona Saver, Fastline Clamp, Deadline Anchor												
DRILLER SIGNATURE					BOILER		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		M.A.C.P.	
					HRS. RAN	ph	STACK TEMP.					
					4	10	235	25000				3438

FOLD HERE →

115398

LICENCE NO.:	WELL NAME AND NO.:
OPERATOR:	CONTRACTOR:
SURFACE LOCATION:	UNIQUE ID.:
SIGNATURE OF OPERATOR'S REPRESENTATIVE:	SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H/S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually inspect BOPs - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)	Initial	Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)	Initial	Initial
(3) Mast Inspection Before Raising or Lowering	Initial	Initial
(4) Crown Saver Checked	Initial	Initial
(5) Motor Kills checked	Initial	Initial

YEAR	MONTH	DAY	LAST CASING TUBING OR LINER	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)	
2020	02	20	58	244.5	226.5	33.6	Pudential	J55	41	337.43	6.45	535	
FUEL @ 8:00													
RIG	BOILER	TEMPERATURE °C	DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH (mm)	
82		17	17	159.1	26	75	176	4 1/2 IF	9	F-1000	Emsco	254	
W E A T H E R		CURRENT CONDITIONS	WIND DIRECTION	ROAD	127	29.02	E2	103	145	110	F-1000	Emsco	254

T I M E - H O U R S	CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	T O T A L S	SHALE SHAKER(S)	RENTALS/SERVICES	MORN	DAY	EVE		
MORN.	OPER.	RIG UP & TIE DOWN	DRILL ACTUAL	REAMING	CORING	CONO. MUD & CORE	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV SURVEY	WIRE LINE LOGS	RUN CASE & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIP. WORK	SAFETY MTG.	SCREENS						8	7 Derricks FLC	Total MJS 20433				
DAY			6 3/4					1/4			1/4																		8	SCREENS CHANGED	YES ☐ NO ☐	Accum MJS 2072			
EVE			5 1/2					1 1/2			3/4																		8	210 ✓	TOP 84				
TOTAL			19 1/4					1 1/2	1/2		2 1/2																		8	250 ✓	MIDDLE 84				
																													24	250 ✓	BOTTOM 84	Accum oil = .32			

NO.		DRILLING ASSEMBLY (At End of Tour)		LENGTH		BIT RECORD		MUD RECORD	
1	BIT	O.D. (mm)	2.25	BIT NO.	2	MUD TYPE	☒ WATER BASED ☐ OIL BASED	TIME	02:10 04:00 06:10
1	Motor	7.43	SIZE (mm)	222	DENSITY kg/m³	1180	1180	1175	
1	Float Sub	51.64	IADC CODE	437	FUNNEL VIS. - (S/L)				
2	NMDC	18.65	MFG.	Smith	W.L. (cm³)	6.4	6.0	8.0	
1	%	.30	TYPE	F10TP	pH	10.5	10.0	10.5	
5	128 DC	47.60	SERIAL NO.	LT7093	PVTM3	49.4	55.5	50.1	
1	Jars	4.86	JETS (mm)	3x15.9	MUD MATERIALS ADDED		SOLIDS CONTROL		
12	128 DC	114.39	DEPTH OUT (m)		PRODUCT	AMOUNT X UNIT	DESILTER		
1	%	1.42	DEPTH IN (m)	1105			CENTRIFUGE		
9	HWD	82.77	TOTAL METRES DRILLED (m)	409			UNDERFLOW DENSITY (kg/m³)		
	BHA	279.22	TOTAL HOURS RUN	70 1/4					
43	D.P.	STANDS	CUTTING STRUCTURE	Reason Pulled		Total Run m/hr.			
XX	D.P.	SINGLES	1250.15			5.82			
STEER UP		15.22	HOLE CONDITION						
TOTAL		1514	HOLE DRAG 4-3000 2-5000						
WT. OF DC		29000	TORQUE AT BOTTOM 2100 FT/LBS.						
WT. OF STRING		61000	FILL ON BOTTOM (m)						

METRES DRILLED		TIME LOG		DETAILS OF OPERATION IN SEQUENCE AND REMARKS					
FROM	TO	DR-D R.M.R. CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 dph)	FROM	TO	ELAP. TIME	CODE NO.	
1484	1514	30 30	149	149	00:00	01:00	1	2	Drill 1484m - 1491m
		MTK 90	142	142	01:00	01:15	1/4	7	RR Function Annular 19sec ✓ RSPP
CIRCULATION PRESSURE (kPa)		PUMP NO. 1	PUMP NO. 2						
		LINEAR SIZE (mm)	S.P.M.	LINEAR SIZE (mm)	S.P.M.				
8900		152 90	152						
REDUCED PUMP SPEED									
5600 @ 50 @									
DEVIATION SURVEY									
DEPTH (m)		DEVIATION (°)		DIRECTION					
1477.34		29.8		336.13					
1486.94		30.4		337.75					
1498.17		29.7		336.84					
NOTES		✓ Crown Saver, Fastline Clamp, Deadline Anchor							
DRILLER SIGNATURE		BOILER		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		M.A.C.P.	
20-2-20		8 105 235						3518	

NO.		DRILLING ASSEMBLY (At End of Tour)		LENGTH		BIT RECORD		MUD RECORD	
1	BIT	O.D. (mm)	2.25	BIT NO.	2	MUD TYPE	☒ WATER BASED ☐ OIL BASED	TIME	09:00 12:00 15:00
1	Motor	7.43	SIZE (mm)	222	DENSITY kg/m³	1180	1180	1180	
1	Float Sub	51.64	IADC CODE	437	FUNNEL VIS. - (S/L)				
2	NMDC	18.65	MFG.	Smith	W.L. (cm³)	8.0	7.5	7.8	
1	%	.30	TYPE	F10TP	pH	10.5	10.0	10.0	
5	128 DC	47.60	SERIAL NO.	LT7093	PVTM3	51.0	50.3	51.4	
1	Jars	4.86	JETS (mm)	3x15.9	MUD MATERIALS ADDED		SOLIDS CONTROL		
12	128 DC	114.39	DEPTH OUT (m)		PRODUCT	AMOUNT X UNIT	DESILTER		
1	%	1.42	DEPTH IN (m)	1105			CENTRIFUGE		
9	H.W.	82.77	TOTAL METRES DRILLED (m)	446			UNDERFLOW DENSITY (kg/m³)		
	BHA	279.22	TOTAL HOURS RUN	77					
45	D.P.	STANDS	CUTTING STRUCTURE	Reason Pulled		Total Run m/hr.			
	D.P.	SINGLES	1288.28			5.8			
STEER UP		16.50	HOLE CONDITION						
TOTAL		1551	HOLE DRAG 10000 9000						
WT. OF DC		29000	TORQUE AT BOTTOM 8000 FT/LBS						
WT. OF STRING		67000	FILL ON BOTTOM (m)						

METRES DRILLED		TIME LOG		DETAILS OF OPERATION IN SEQUENCE AND REMARKS					
FROM	TO	DR-D R.M.R. CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 dph)	FROM	TO	ELAP. TIME	CODE NO.	
1514	1551	37 30	149	149	08:00	14:30	6 1/2	2	Drill 222mm hole F/1514m - 1548m
		Shile 90	1420	1420	14:30	14:45	1/4	7	Rig Service Func. Top pipe 8sec
CIRCULATION PRESSURE (kPa)		PUMP NO. 1	PUMP NO. 2						
9000		152 90	152						
REDUCED PUMP SPEED									
5700 @ 50 @									
DEVIATION SURVEY									
DEPTH (m)		DEVIATION (°)		DIRECTION					
1505.78		28.46		337.25					
1515.37		27.8		335.13					
1525.04		28.1		334.73					
1534.41		29.3		334.73					
NOTES		✓ Crown Saver, deadline anchor, fastline clamp							
DRILLER SIGNATURE		BOILER		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		M.A.C.P.	
20-2-20		8 10 240		75000		Waste Management		3490	

NO.		DRILLING ASSEMBLY (At End of Tour)		LENGTH		BIT RECORD		MUD RECORD	
1	BIT	O.D. (mm)	2.25	BIT NO.	2	MUD TYPE	☒ WATER BASED ☐ OIL BASED	TIME	18:00 21:00
1	Motor	7.43	SIZE (mm)	222	DENSITY kg/m³	1190	1190		
1	Float Sub	51.64	IADC CODE	437	FUNNEL VIS. - (S/L)				
2	NMDC	18.65	MFG.	Smith	W.L. (cm³)	7.5	7.06		
1	%	.30	TYPE	F10TP	pH	10.0	10.0		
5	128 DC	47.60	SERIAL NO.	LT7093	PVTM3	50.4	51.2		
1	Jars	4.86	JETS (mm)	3x15.9	MUD MATERIALS ADDED		SOLIDS CONTROL		
12	128 DC	114.39	DEPTH OUT (m)	1577	PRODUCT	AMOUNT X UNIT	DESILTER		
1	%	1.42	DEPTH IN (m)	1105			CENTRIFUGE		
7	HWD	82.77	TOTAL METRES DRILLED (m)	472			UNDERFLOW DENSITY (kg/m³)		
	BHA	279.22	TOTAL HOURS RUN	82 1/2					
45	D.P.	STANDS	CUTTING STRUCTURE	Reason Pulled		Total Run m/hr.			
XX	D.P.	SINGLES	1307.39			5.7			
STEER UP		9.61	HOLE CONDITION						
TOTAL		1577	HOLE DRAG 2-10000 2-8000						
WT. OF DC		29000	TORQUE AT BOTTOM 10900						
WT. OF STRING		67000	FILL ON BOTTOM (m)						

METRES DRILLED		TIME LOG		DETAILS OF OPERATION IN SEQUENCE AND REMARKS					
FROM	TO	DR-D R.M.R. CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 dph)	FROM	TO	ELAP. TIME	CODE NO.	
1551	1577	26 30	149	149	16:00	17:30	1 1/2	2	Drill F/1551 - 1558m
		Shile 90	1420	1420	17:30	17:45	1/4	22	Change shaker screens
CIRCULATION PRESSURE (kPa)		PUMP NO. 1	PUMP NO. 2						
37400		152 90	152						
REDUCED PUMP SPEED									
5700 @ 50 @									
DEVIATION SURVEY									
DEPTH (m)		DEVIATION (°)		DIRECTION					
1543.97		29.7		336.5					
1553.50		29.2		336.84					
1563.01		28.8		337.59					
NOTES		✓ Crown Saver, Fastline Clamp, Deadline Anchor							
DRILLER SIGNATURE		BOILER		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		M.A.C.P.	
20-2-20		8 10 240		75000		Waste Management		3490	

LICENCE NO.:	WELL NAME AND NO.:
OPERATOR:	CONTRACTOR:
SURFACE LOCATION:	UNIQUE ID.:
SIGNATURE OF OPERATOR'S REPRESENTATIVE:	SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklists)	Initial	Initial
(3) HFS Signs Posted (if required)	Initial	Initial
(4) Well Labeled & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)	Initial	Initial
(2) G.A.O.D.C. Rig Safety Inspection Checklist (monthly/month)	Initial	Initial
(3) Mast Inspection Before Raising or Lowering	Initial	Initial
(4) Crown Sails Checked	Initial	Initial
(5) Motor Kills checked	Initial	Initial

YEAR	MONTH	DAY	LAST	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB TO CSG HEAD (m)	SET AT (m)
79	08	19	CASING									
RIG NO	58		TUBING	244.5	226.5	53.6	Predential J55	41	537.43	6.45	535	
FUEL @ 8:00			OR									
RIG	1.86	SOILER	LINER									
WEATHER	TEMPERATURE	°C	D.C./P. SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JO.T.O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE L/H. (mm)
CURRENT	CONDITIONS		127	15.94	BG	75	75	SAE 40	21			
WIND DIRECTION			127	24.35	HV	75	140	4x1F	9	F-1000	Emsco	254
ROAD			127	29.02	F2	103	145	1	110	F-1000	Emsco	254
			127	28.09	F3	105	145		142			

TIME - HRS	CODE NO.																											TOTALS	SHALE SHAKER(S)		RENTALS/SERVICES		MORN	DAY	EVE	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26		NO. TYPE	SCREENS CHANGED	YES	NO				
	OPER.	RIG UP & TEAR DOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV. SURVEY	WIRE LINE LOGS	PLUG CASE & CEMENT	WALL ON CEMENT	PIPELINE UP B.O.P.	TEST B.O.P.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DPL WORK	SAFETY MTG.									8	21 Derrick FLC			Total MJ 19835	
MORN			6 3/4				1/4				1																				8	TOP	210	TOP	84	Accum MJ 1474
DAY			6 3/4				1/4				1																				8	MIDDLE	250	MIDDLE	84	
EVE			7								1																				8	BOTTOM	250	BOTTOM	84	
TOTAL			20 1/2				1/2				3																				24				Accum Oil = .32	

DRILLING ASSEMBLY (At End of Tour)				BIT RECORD								MUD RECORD					
NO.	BIT	O.D. mm	LENGTH	BIT NO.						MUD TYPE	☒ WATER BASED	☐ OIL BASED					
1			125 m	SIZE (mm)	222					TIME	02:00	04:00	06:00				
1	motor float sub		7.93 m	JADC CODE	437					DENSITY kg/m ³	1150	1150	1165				
1	U8000		51.64 m	MFG.	Smith					FUNNEL VIS. - (S/L)							
2	NHDC		18.05 m	TYPE	FIDTP					W.L. (cm ³)	8.6	8.4	76				
1	x/b		30 m	SERIAL NO.	LT7093					pH	10.0	10.0	10.0				
5	128 DC		42.10 m	JETS (mm)	3x15.8						AT-3	77.4	77.4	77.4			
1	Tact		4.86 m	DEPTH OUT (m)						MUD MATERIALS ADDED			SOLIDS CONTROL				
12	128 DC		114.77 m	DEPTH IN (m)	1105					PRODUCT	AMOUNT X UNIT		DESILER				
1	3/a		1.42 m	TOTAL METRES DRILLED (m)	303					FIDPHE	19 m ³		HOURS RUN	INTAKE DENSITY (g/cm ³)	OVERFLOW DENSITY (g/cm ³)	UNDERFLOW DENSITY (g/cm ³)	
9	NHWP		82.72 m	TOTAL HOURS RUN	4942					Potassium	20 m ³						
37	D.P.	STANDS		CUTTING STRUCTURE						Gel	45 m ³		CENTRIFUGE				
x2	D.P.	SINGLES	1135.53 m	T ₁	T ₀	MDC	LDC	B	Gage	OOD	Reason Polled	Total Run m/hr.	HOURS RUN	INTAKE DENSITY (g/cm ³)	OVERFLOW DENSITY (g/cm ³)	UNDERFLOW DENSITY (g/cm ³)	
	stick	KELLY DOWN	6.75 m	HOLE CONDITION													
		TOTAL	1408 m	HOLE DRAG 2-4000' 2-4000'													
WT.OFDC		29000 lbm	1000 dwt	TORQUE AT BOTTOM		7500 FT/LBS							HOURS RUN	INTAKE DENSITY (g/cm ³)	OVERFLOW DENSITY (g/cm ³)	UNDERFLOW DENSITY (g/cm ³)	
WT.OF STRING		22000 lbm	1000 dwt	FILL ON BOTTOM (m)									8	1165	1020	1650	

METRES DRILLED						TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS			
FROM	TO	LRG RMA CORE-C	ROTARY R.P.M.	WT. ON BIT (1000.000)		FROM	TO	ELAP TIME	CODE NO.				
1373	1408	35	30	15/19		00:00	05:00	5	2	Drill 1373m - 1395m			
			90	15/18		05:00	05:15	1/4	7	R/S Function Top Pipe 8 sec VRSPF			
						05:15	07:00	1 3/4	2	Drill F/1395m - 1408m			
						07:00	08:00	1	10	Accumulated Surveys			
CIRCULATION PRESSURE (kPa)						PUMP NO. 1		PUMP NO. 2					
						LINE SIZE (mm)		S.P.M.		LINE SIZE (mm)		S.P.M.	
7800						152				152		90	
REDUCED PUMP SPEED													
1900 @													
DEVIATION SURVEY													
DEPTH (m)		DEVIATION (°)		DIRECTION									
1362.5		28.7		337.54									
1371.8		27.2		338.24									
1381.6		26.5		334.02									
1391.13		26.4		333.30									
NOTES													
						Veracore Saver Fastline Clamp Deadline Anchor							
DRILLER SIGNATURE						BOILER		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		M.A.C.P.	
						HRS. RAN	ph	STACK TEMP.					
						8 10.5 230		70.000				3569	

[illegible]

METRES DRILLED					TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS			
FROM	TO	DR.D. R.H. CORRECTION	ROTARY R.P.M.	W.T. ON BIT (1000 lb)	FROM	TO	ELAP. TIME	CODE NO.				
1408	1443	35	30	17/8	08:00	12:15	4 1/4	2	Drill 232mm hole F/1408m-1433m			
		slide	90	1 3/20	13:15	13:30	1/4	7	Rig Service Function Bottom Pipe 8 sec			
					12:30	15:00	2 1/2	2	Drill F/1433-1443m			
					15:00	16:00	1	10	Acc. surveys			
CIRCULATION PRESSURE (kPa)												
PUMP NO. 1					PUMP NO. 2							
LINER SIZE (mm)					LINER SIZE (mm)							
S.P.M.					S.P.M.							
8500					152					152 90		
REDUCED PUMP SPEED												
5100					@					@ 50		
DEVIATION SURVEY												
DEPTH (m)					DEVIATION (°)					DIRECTION		
1400.75					26.9					332.62		
1410.34					27.3					334.73		
1414.96					28.0					334.73		
1429.55					28.7					334.88		
NOTES					✓ Crown Saver, dead line anchor, Fast line clamp							
					Function Remote choke, Grease crown's blocks							
DRILLER SIGNATURE					BOILER					MAXIMUM EXPERIENCED HOOKLOAD		
Rou. Cook					HRS. RAN					SAFETY TOPIC		
					ph. STACK TEMP.					M.A.C.P.		
					8 105 235					3490		

DRILLING ASSEMBLY (At End of Tour)				BIT RECORD								MUD RECORD				
NO.	BIT		LENGTH	BIT NO.		MUD TYPE		☒ WATER BASED		☐ OIL BASED						
1	BIT	O.D. mm	25	2												
1	Water		2.83	SIZE (mm)		222		TIME		18:00	21:00	24:00				
1	Foot Sub		21.14	IADC CODE		4 3 7		DENSITY kg/m ³		1185	1185	1185				
1	UBNC		.14	MFG		Smith		FUNNEL VIS. - (S/L)								
2	N.M.D.G.		18.65	TYPE		FIUTP		W.L. (cm ²)		7.5	7.8	6.5				
1	%		.30	SERIAL NO.		LT7093		pH		10.0	10.5	10.5				
5	178 DC		47.60	JETS (mm)		3x15.9		PVT M ³		52.3	52.1	49.0				
1	Jars		4.86	DEPTH OUT (m)				MUD MATERIALS ADDED		SOLIDS CONTROL						
12	178 DC		114.79	DEPTH IN (m)		1105		PRODUCT		AMOUNT X UNIT		DESILTER				
1	x10		1.42	TOTAL METRES DRILLED (m)		378		HOURS RUN		INTAKE DENSITY (kgm ³)	OVERFLOW DENSITY (kgm ³)	UNDERFLOW DENSITY (kgm ³)				
9	H.W.D.P.		62.77	TOTAL HOURS RUN		63 1/4		HOURS RUN		INTAKE DENSITY (kgm ³)	OVERFLOW DENSITY (kgm ³)	UNDERFLOW DENSITY (kgm ³)				
			BHA = 278.28					HOURS RUN		INTAKE DENSITY (kgm ³)	OVERFLOW DENSITY (kgm ³)	UNDERFLOW DENSITY (kgm ³)				
42	D.P.	STANDS		CUTTING STRUCTURE				B	Gage	ODC	Reason Pulled	Total Run m/hr.	CENTRIFUGE			
X	D.P.	SINGLES	12.12.12	T ₁	T ₂	MDC	LOC						HOURS RUN	INTAKE DENSITY (kgm ³)	OVERFLOW DENSITY (kgm ³)	UNDERFLOW DENSITY (kgm ³)
5	KELLY DOWN		7.34	HOLE CONDITION								HOURS RUN		INTAKE DENSITY (kgm ³)	OVERFLOW DENSITY (kgm ³)	UNDERFLOW DENSITY (kgm ³)
	TOTAL		1484	HOLE DRAG 4-6000 2-4000								HOURS RUN		INTAKE DENSITY (kgm ³)	OVERFLOW DENSITY (kgm ³)	UNDERFLOW DENSITY (kgm ³)
WT. OF DC	39.000		1000 g/m	TORQUE AT BOTTOM 7700 FT/LBS								HOURS RUN		INTAKE DENSITY (kgm ³)	OVERFLOW DENSITY (kgm ³)	UNDERFLOW DENSITY (kgm ³)
WT. OF STRING	16000		1000 g/m	FILL ON BOTTOM (m)								HOURS RUN		INTAKE DENSITY (kgm ³)	OVERFLOW DENSITY (kgm ³)	UNDERFLOW DENSITY (kgm ³)

METRES DRILLED						TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS			
FROM	TO	GRID LINE A CORE C	ROTARY R.P.M	WT. ON BIT (1000 lbs)	FROM	TO	ELAP. TIME	CODE NO.					
1443	1484	41	30	1470	16:00	23:00	7	2	Drill 222mm hole f/1443m - 1484m				
		Slide	90	1452	23:00	24:00	1	10	Acc. Surveys				
CIRCULATION PRESSURE (kPa)		PUMP NO. 1		PUMP NO. 2									
LINER SIZE (mm)		S.P.M.		LINER SIZE (mm)		S.P.M.							
9000				152		90							
REDUCED PUMP SPEED													
5200		@		@		D							
DEVIATION SURVEY													
DEPTH (m)		DEVIATION (°)		DIRECTION									
1439.21		28.2		335.43									
1448.90		27.6		334.73									
1455.60		28.0		334.02									
1467.94		28.9		335.43									
NOTES													
✓ Crown Saver, Fastline Clamp, Deadline Anchor													
DRILLER SIGNATURE						BOILER		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		M.A.C.P.	
8-105-230						8 105 230		74000				3464	

FOLD HERE →

115396

LICENCE NO.: WELL NAME AND NO.: **Suncor Netla K-77-60-50-122-30**

OPERATOR: **Suncor Energy** CONTRACTOR: **Akita Drilling LTD**

SURFACE LOCATION: **K-77-60-50-122-30** UNIQUE ID: **300-K-77-060-500-122-30**

SIGNATURE OF OPERATOR'S REPRESENTATIVE: *[Signature]* SIGNATURE OF CONTRACTOR'S RIG MANAGER: *[Signature]*

DAILY CHECKS

(1) Daily Walk Around Inspection
(2) Detailed Inspection Weekly (using checklist)
(3) H/S Signs Posted (if required)
(4) Well License and Stick Diagram Posted
(5) Flare Lines Bleared
(6) BOP Drills Performed
(7) Visually inspect BOP's: Flarelines & Degasser Lines

(1) Rig Site Health and Safety Meeting (one/week/month)
(2) C.A.O.C. Rig Safety Inspection Checklist (one/week/month)
(3) Mast Inspection Before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kils checked

OPR. R.M.

Initial Initial
Initial Initial
Initial Initial
Initial Initial
Initial Initial
Initial Initial

YEAR MONTH DAY
77 02 16

RIG NO. 58

FUEL @ 8:00
158

WATER
TEMPERATURE °C
CURRENT CONDITIONS
WIND DIRECTION
ROAD

LAST CASING TUBING OR LINER	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL (m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
	244.5	226.6	53.6	Prudential	355	41	537.47	6.45	535

DC-OP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. I.D. (mm)	TOOL JOINT D. (mm)	TYPE	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
178	14.7	DE	78	178	5/8"	21	F-1000	EMSCO	254
127	74.35	HW	78	127	4 1/2"	9	F-1000	EMSCO	254
127	29.02	E2	108	127		110	F-1000	EMSCO	254
127	38.08	E2	108	127		142			

TIME - HRS	CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL	SHALE SHAKER(S)		RENTALS/SERVICES			MON	DAY	EV					
	OPER.	RIG UP & TEAR DOWN	DRILL ACTUAL	HEAVING	CORING	COND. MUD & CIRC.	TRIPS	R/O SERVICE	REPAIR RIG	CUT-OFF DRILL LINE	DEV SURVEY	WIRE LINE LOGS	RUN CASE & CEMENT	WALK ON CEMENT	SHUDDLE UP B.O.P.	TEST B.O.P.	DRILL STEM TEST	PULL BACK	SQUEEZE CEMENT	FISHING	D/R WORK	SAFETY MTO.	BOP Dr-11																		
	MORN.		6 1/2					3/4			1 1/4																			8	21 Barrock FLC		T.M.J 19518								
	DAY		6 1/2					3/4			1													1/4						8	SCREENS CHANGED ☐ YES ☒ NO		A.M.J 1157								
	EVE		6 3/4								1													3/4						8	TOP 210		TOP 84								
	TOTAL		6 3/4					1 1/2			3 1/4													1 1/2						24	MIDDLE 250		MIDDLE 84								
																														BOTTOM 250		BOTTOM 84		Accum Del .39							

DRILLING ASSEMBLY (At End of Tour)		LENGTH	BIT RECORD		MUD RECORD	
NO.	BIT	O.D. (mm)	BIT NO.		MUD TYPE	☒ WATER BASED ☐ OIL BASED
1	Motor	7.43	SIZE (mm)	222	TIME	02:10 04:10 06:10
1	Float Sub	51.64	IADC CODE	437	DENSITY kg/m ³	1145 1145 1155
2	NMDC	18.65	MFG	Smith	FUNNEL VIS. (S/L)	
1	X/O	30	TYPE	F10TP	W.L. (cm ³)	7.7 8.0 7.2
5	178 DL	47.60	SERIAL NO.	LT7093	pH	10.0 10.0 10.5
1	Jars	4.86	JETS (mm)	15.9x3	PVT _m ³	52.0 52.9 54.2
12	178 DL	114.39	DEPTH OUT (m)		MUD MATERIALS ADDED SOLIDS CONTROL	
1	X/O	1.42	DEPTH IN (m)	1105	PRODUCT	AMOUNT X UNIT
9	HWDP	82.77	TOTAL METRES DRILLED (m)	193	Flaplex	17 sx
			TOTAL HOURS RUN	29/2	Potassium	35 sx
35	D.P.	STANDS 1001.05	CUTTING STRUCTURE		CENTRIFUGE	
XX	D.P.	SINGLES 19.47	T ₁ T ₂ MDC LOC B Gage ODC Reason Pulled Total Run m/hr.			
			HOLE CONDITION			
			HOLE DRAG 4-6000' 2-4000'			
			TORQUE AT BOTTOM 7000 FT/LB.			
			FILL ON BOTTOM (m)			
WT.OFDC		29000	1000			
WT.OFSTRING		67000	1000			

DRILLING ASSEMBLY (At End of Tour)		LENGTH	BIT RECORD		MUD RECORD	
NO.	BIT	O.D. (mm)	BIT NO.		MUD TYPE	☒ WATER BASED ☐ OIL BASED
1	Motor	7.43	SIZE (mm)	222	TIME	09:00 12:00 15:00
1	Float Sub	51.64	IADC CODE	437	DENSITY kg/m ³	1145 1150 1155
2	NMDC	18.65	MFG	Smith	FUNNEL VIS. (S/L)	
1	X/O	30	TYPE	F10TP	W.L. (cm ³)	8.0 8.0 8.0
5	178 DL	47.60	SERIAL NO.	LT7093	pH	10.0 10.0 10.5
1	Jars	4.86	JETS (mm)	3x15.9	PVT _m ³	56.6 56.6 51.8
12	178 DL	114.39	DEPTH OUT (m)		MUD MATERIALS ADDED SOLIDS CONTROL	
1	X/O	1.42	DEPTH IN (m)	1105	PRODUCT	AMOUNT X UNIT
9	HWDP	82.77	TOTAL METRES DRILLED (m)	230	Coastal	2 sx
			TOTAL HOURS RUN	36	Flaplex	8 sx
37	D.P.	STANDS 1059.09	CUTTING STRUCTURE		CENTRIFUGE	
	D.P.	SINGLES	T ₁ T ₂ MDC LOC B Gage ODC Reason Pulled Total Run m/hr.			
			HOLE CONDITION			
			HOLE DRAG 4-6000' 2-4000'			
			TORQUE AT BOTTOM 7200 FT/LBS			
			FILL ON BOTTOM (m)			
WT.OFDC		29000	1000			
WT.OFSTRING		67000	1000			

DRILLING ASSEMBLY (At End of Tour)		LENGTH	BIT RECORD		MUD RECORD	
NO.	BIT	O.D. (mm)	BIT NO.		MUD TYPE	☒ WATER BASED ☐ OIL BASED
1	Motor	7.43	SIZE (mm)	222	TIME	18:00 21:00 24:00
1	Float Sub	51.64	IADC CODE	437	DENSITY kg/m ³	1160 1155 1155
2	NMDC	18.65	MFG	Smith	FUNNEL VIS. (S/L)	
1	X/O	30	TYPE	F10TP	W.L. (cm ³)	8.0 7.5 8.4
5	178 DL	47.60	SERIAL NO.	LT7093	pH	10.5 10.5 10.0
1	Jars	4.86	JETS (mm)	3x15.9	PVT _m ³	52.2 48.2 48.2
12	178 DL	114.39	DEPTH OUT (m)		MUD MATERIALS ADDED SOLIDS CONTROL	
1	X/O	1.42	DEPTH IN (m)	1105	PRODUCT	AMOUNT X UNIT
9	HWDP	82.77	TOTAL METRES DRILLED (m)	268	Flaplex	2 sx
			TOTAL HOURS RUN	42 1/2	Potassium	17 sx
38	D.P.	STANDS 1097.37	CUTTING STRUCTURE		CENTRIFUGE	
X	D.P.	SINGLES	T ₁ T ₂ MDC LOC B Gage ODC Reason Pulled Total Run m/hr.			
			HOLE CONDITION			
			HOLE DRAG 4-6000' 2-4000'			
			TORQUE AT BOTTOM 7500 FT/LBS			
			FILL ON BOTTOM (m)			
WT.OFDC		29000	1000			
WT.OFSTRING		67000	1000			

METRES DRILLED		TIME LOG		DETAILS OF OPERATION IN SEQUENCE AND REMARKS	
FROM	TO	ELAP. TIME	CODE NO.		
1251	1298	47 30	17/18	Survey @ 1237.6	
				Drill 1251m-1260m	
				R/S Function Remote choke VRSPP	
				Survey @ 1246.7	
				Drill 1260m-1270m	
				Survey @ 1256.5	
				Drill 1270m-1280m	
				Survey @ 1266.2	
				Drill 1280m-1290m	
				Survey @ 1276.0	
				Drill 1290m-1298m	
NOTES Vcrown Saver, Fastline Clamp, Deadline Anchor					
DRILLER SIGNATURE		BOILER		MAXIMUM EXPERIENCED HOOKLOAD	
		HRS. RAN ph STACK TEMP.		SAFETY TOPIC	
		8 10 240		3622	

METRES DRILLED		TIME LOG		DETAILS OF OPERATION IN SEQUENCE AND REMARKS	
FROM	TO	ELAP. TIME	CODE NO.		
1298	1335	37 30	17/18	Drill 222mm hole F/1298m-1319m	
				BOP drill well secure 90sec, Ann 21sec	
				R/S Service Function top pipe 8sec	
				Drill F/1319-1335m	
				Acc. Surveys	
NOTES Vcrown Saver, deadline anchor, fast line clamp					
Hold safety meeting w/crow					
DRILLER SIGNATURE		BOILER		MAXIMUM EXPERIENCED HOOKLOAD	
		HRS. RAN ph STACK TEMP.		SAFETY TOPIC	
		8 10 240		3648	

METRES DRILLED		TIME LOG		DETAILS OF OPERATION IN SEQUENCE AND REMARKS	
FROM	TO	ELAP. TIME	CODE NO.		
1335	1373	38 30	17/18	Drill 222mm hole F/1335m-1357m	
				BOP Drill Well Secure 1min.	
				Drill 1357m-1373m	
				Acc. Surveys	
NOTES Vcrown Saver Fastline Clamp Deadline Anchor					
DRILLER SIGNATURE		BOILER		MAXIMUM EXPERIENCED HOOKLOAD	
		HRS. RAN ph STACK TEMP.		SAFETY TOPIC	
		8 10 230		3622	

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115395

LICENCE NO.:	WELL NAME AND NO.:
OPERATOR:	CONTRACTOR:
SUNCOR Energy	AKita Drilling LTD
SURFACE LOCATION:	UNIQUE ID.:
K-77-60-50-122-30	300-K-77-060-500-122-30
SIGNATURE OF OPERATOR'S REPRESENTATIVE:	SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection Weekly (using checklist)	Initial	Initial
(3) HPS Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crow/month)	Initial	Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/crow/month)	Initial	Initial
(3) Mast Inspection Before Raising or Lowering	Initial	Initial
(4) Crown Saver Checked	Initial	Initial
(5) Motor Kills checked	Initial	Initial

YEAR	MONTH	DAY	LAST	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
94	02	17	CASING	244.5	226.6	53.6	Prudential	J55	41	537.43	6.45	535
RIG NO.	FUEL @ 8:00	BOILER	OR LINER									
1.21												
W	TEMPERATURE	DC/DP SIZE	LINEAR MASS	GRADE	MIN. ID	TOOL JOINT	TYPE	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)	
E	CURRENT CONDITIONS	178	15.1	D6	77	120	5710	21	F-1000	Emisco	254	
A	WIND DIRECTION	127	29.02	E2	108	165	1	110	F-1000	Emisco	254	
T	ROAD	137	29.02	E3	108	165	1	112				

T	CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL	SHAPE SHAKER(S)	RENTALS/SERVICES	MORN	DAY	EVE
M	OPER.	PRO UP & TEAR DOWN	DRILL ACTUAL	REAMING CORING	COND. A.D. & C.S.C.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV SURVEY	WIRE LINE LOGS	REN CASE & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL SYSTEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MTG.												
E	MORN.		63%				1/4			1																							
H	DAY		63%				1/4			1																							
R	EVE.		63%				1/4			1 1/4																							
S	TOTAL		20%				3/4			3 3/4																							

DRILLING ASSEMBLY (At End of Tour)		LENGTH	BIT RECORD		MUD RECORD	
NO.	BIT	O.D. (mm)	BIT NO.	2	MUD TYPE	WATER BASED
1	Motor	7.83	SIZE (mm)	222	TIME	02:00 04:00 06:00
1	Float Sub	51.64	IADC CODE	437 X	DENSITY kg/m ³	1155 1165 1155
2	NMDC	18.65	MFG.	Smith	FUNNEL VIS. (S/L)	
1	X10	.30	TYPE	F10TP	W.L. (cm ³)	9.0 8.5 8.2
5	178 DC	47.60	SERIAL NO.	LT7093	pH	10.0 10.0 9.5
1	Jars	4.86	JETS	3X15.9	PVTAB	438 473 48.8
12	178 DC	114.39	DEPTH OUT (m)		MUD MATERIALS ADDED	SOLIDS CONTROL
1	X10	1.42	DEPTH IN (m)	1105	PRODUCT	AMOUNT X UNIT
9	H.W.D.P.	82.77	TOTAL METRES DRILLED (m)	50	Floplex	26 SX
	BHA: 279.22		TOTAL HOURS RUN	942	Potassium	28 SX
	D.P. STANDS		CUTTING STRUCTURE			
	D.P. SINGLES		T ₁ T ₂ MDC LOC B Gage ODC Reason Pulled Total Run m/hr.			
	KELLY DOWN		HOLE CONDITION			
	TOTAL	1155	HOLE DRAG	2-3000 2-3000V		
WT.OFDC	29000	1000 dat	TORQUE AT BOTTOM	4570 FT/LB		
WT.OFSTRING	64000	1000 dat	FILL ON BOTTOM (m)			

METRES DRILLED		TIME LOG		DETAILS OF OPERATION IN SEQUENCE AND REMARKS	
FROM	TO	ELAP. TIME	CODE NO.		
1117	1155	38	30	13/17	00:00 02:00 2 2 Drill 222 mm hole F/1117m-1126m
					Survey @ 1111m
					02:00 02:15 1/4 10 Drill F/1126m-1136m
					Survey @ 1121.46m
					04:15 04:30 1/4 10 Drill F/1136m-1145m
					Survey @ 1131.02m
					06:00 06:15 1/4 7 R/S Function Lower Pipe Ramis 7seconds /RSP
					06:15 06:30 1/4 10 Survey @ 1131.02m
					06:30 07:45 1/4 2 Drill F/1145m-1155m
					Survey @ 1141.8 m
					07:45 08:00 1/4 10
					111.39 3.1 347.8
					1121.46 4.4 344.6
					1131.02 5.7 351.6
					1141.8 7.3 348
					NOTES /Crown Saver, Fastline Clamp, Deadline Anchor.
DRILLER SIGNATURE		BOILER		MAXIMUM EXPERIENCED HOOKLOAD	
Garry Patena		HRS. RAN ph STACK TEMP.		SAFETY TOPIC	
8 10 230		64000 DAN		M.A.C.P.	
		3595 KPA			

DRILLING ASSEMBLY (At End of Tour)		LENGTH	BIT RECORD		MUD RECORD	
NO.	BIT	O.D. (mm)	BIT NO.	2	MUD TYPE	WATER BASED
1	Motor	7.83	SIZE (mm)	222	TIME	09:00 12:00 15:00
1	Float Sub	51.64	IADC CODE	437	DENSITY kg/m ³	1155 1150 1150
2	NMDC	18.65	MFG.	Smith	FUNNEL VIS. (S/L)	
1	X10	.30	TYPE	F10TP	W.L. (cm ³)	7.0 7.0 8.0
5	178 DC	47.60	SERIAL NO.	LT7093	pH	7.5 10.5 10.0
1	Jars	4.86	JETS	15.9 x 3	PVTn3	53.2 51.8 55.2
12	178 DC	114.39	DEPTH OUT (m)		MUD MATERIALS ADDED	SOLIDS CONTROL
1	X10	1.42	DEPTH IN (m)	1105	PRODUCT	AMOUNT X UNIT
9	H.W.D.P.	82.77	TOTAL METRES DRILLED (m)	97	Floplex	8 SX
	BHA: 279.22		TOTAL HOURS RUN	1644	Potassium	60 SX
	D.P. STANDS		CUTTING STRUCTURE			
	D.P. SINGLES		T ₁ T ₂ MDC LOC B Gage ODC Reason Pulled Total Run m/hr.			
	KELLY DOWN		HOLE CONDITION			
	TOTAL	1202	HOLE DRAG	2-4000 2-2000V		
WT.OFDC	29000	1000 dat	TORQUE AT BOTTOM	4500		
WT.OFSTRING	65000	1000 dat	FILL ON BOTTOM (m)			

METRES DRILLED		TIME LOG		DETAILS OF OPERATION IN SEQUENCE AND REMARKS	
FROM	TO	ELAP. TIME	CODE NO.		
1155	1202	47	30	17/18	08:00 09:30 1 2 Drill 1155m-1165m
					Survey @ 1151m
					09:30 09:45 1/4 10 Drill 1165m-1175m
					Survey @ 1161m
					11:30 11:45 1/4 10 Drill 1175m-1184m
					Survey @ 1170.6
					13:00 13:15 1/4 10 Drill 1184m-1194m
					Survey @ 1180m
					14:30 14:45 1/4 10 Drill 1194m-1202m
					Rig Service Function Ann 20sec
					1151.3 8.9 348.0
					1161.0 10.1 348.7
					1170.8 11.2 348.0
					1180.1 12.0 349.4
					NOTES /Crown Saver Fastline Clamp Deadline Anchor.
DRILLER SIGNATURE		BOILER		MAXIMUM EXPERIENCED HOOKLOAD	
Dan		HRS. RAN ph STACK TEMP.		SAFETY TOPIC	
8 10 230		69000		M.A.C.P.	
		3648			

DRILLING ASSEMBLY (At End of Tour)		LENGTH	BIT RECORD		MUD RECORD	
NO.	BIT	O.D. (mm)	BIT NO.	2	MUD TYPE	WATER BASED
1	MTR	7.83	SIZE (mm)	222	TIME	18:00 21:00 24:00
1	Float Sub	51.64	IADC CODE	437	DENSITY kg/m ³	1155 1145 1150
2	NMDC	18.65	MFG.	Smith	FUNNEL VIS. (S/L)	
1	X10	.30	TYPE	F10TP	W.L. (cm ³)	7.5 8.0 8.0
5	178 D.C.	47.60	SERIAL NO.	LT7093	pH	10.0 10.0 10.0
1	Jars	4.86	JETS	3X15.9	PVTn3	52.6 53.0 54.2
12	178 D.C.	114.39	DEPTH OUT (m)		MUD MATERIALS ADDED	SOLIDS CONTROL
1	X10	1.42	DEPTH IN (m)	1105	PRODUCT	AMOUNT X UNIT
9	H.W.	82.77	TOTAL METRES DRILLED (m)	146	Viflex	6 SX
	BHA: 279.22		TOTAL HOURS RUN	23	Caustic	1 SX
	D.P. STANDS		CUTTING STRUCTURE			
	D.P. SINGLES		T ₁ T ₂ MDC LOC B Gage ODC Reason Pulled Total Run m/hr.			
	KELLY DOWN		HOLE CONDITION			
	TOTAL	1251	HOLE DRAG	2-4000 2-4000V		
WT.OFDC	29000	1000 dat	TORQUE AT BOTTOM	6000 FT/LBS		
WT.OFSTRING	65000	1000 dat	FILL ON BOTTOM (m)			

METRES DRILLED		TIME LOG		DETAILS OF OPERATION IN SEQUENCE AND REMARKS	
FROM	TO	ELAP. TIME	CODE NO.		
1202	1251	49	30	17/18	16:00 16:15 1/4 10 Survey @ 1189.38
					16:15 17:45 1/2 2 Drill 222 mm hole F/1202m-1213m
					Survey @ 1199.24
					17:45 18:00 1/4 10 Drill 1213-1222 m
					Survey @ 1208.92
					18:00 19:00 1 2 Drill 1222m-1232m
					Survey @ 1218.46
					19:00 19:15 1/4 10 Drill 1232m-1242m
					Survey @ 1228.32
					20:45 21:00 1/4 10 Drill 1242-1251m
					21:00 22:30 1/2 2 Survey @ 1238.32
					22:45 24:00 1/4 2
					1189.28 13.6 348.09
					1199.24 15.8 348.09
					1208.92 17.5 347.38
					1218.46 19.3 345.98
					1228.22 21.1 343.87
					NOTES /Crown Saver, deadline anchor, Fastline clamp
DRILLER SIGNATURE		BOILER		MAXIMUM EXPERIENCED HOOKLOAD	
Dan		HRS. RAN ph STACK TEMP.		SAFETY TOPIC	
8 10 230		69000		M.A.C.P.	
		3648			

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115394

LICENCE NO.:	WELL NAME AND NO.:
OPERATOR:	CONTRACTOR:
SURFACE LOCATION:	UNIQUE ID.:
SIGNATURE OF OPERATOR'S REPRESENTATIVE:	SIGNATURE OF CONTRACTOR'S RIG MANAGER:

SUNCOR ENERGY
K-77-60-50-122-30
SUNCOR Netco K-77-60-50-122-30
AKita Drilling LTD
300-K-77-060-500-122-30
RDondo

DAILY CHECKS	OPR	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) HPS Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)	Initial	Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)	Initial	Initial
(3) Mast Inspection Before Raising or Lowering	Initial	Initial
(4) Crown Saver Checked	Initial	Initial
(5) Motor Kils checked	Initial	Initial

YEAR	MONTH	DAY	LAST	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)	
94	02	16	CASING TUBING OR LINER	244.5	226.6	53.6	Prudential	755	41	537.43	6.45	535	
RIG NO.	FUEL @ 8:00	BOILER	TEMPERATURE	DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JOINT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
58	1.02		-15 °C	178	15.41	DE	71	178	5/8" E	9	F-1000	Emsco	254
			CURRENT CONDITIONS	127	74.35	4.0	78	160	1/2" E	9	F-1000	Emsco	254
			WIND DIRECTION	127	29.02	E3	108	165	"	110			
			ROAD SnowPack	427	29.02	E3	108	165	"	142			

TIME	CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTALS	SHAPE SHAKER(S)	RENTALS/SERVICES	MORN	DAY	EVE
OPER.	RIG UP & TEAR DOWN	DRILL ACTUAL	REAMING	CORING	CONO. MUD & CPG	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV. SURVEY	WIRE LOGS	RUN CASE & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MTG.	Handle Tools											
MORN.		2 1/4				3 1/4	3 1/4	1/4																									
DAY																																	
EVE		2 3/4	1/2			1/4	2 1/2			1	1																						
TOTAL																																	

DRILLING ASSEMBLY (At End of Tour)		LENGTH		BIT RECORD		MUD RECORD	
NO.	BIT	O.D. (mm)	LENGTH (m)	BIT NO.	SIZE (mm)	MUD TYPE	WATER BASED
1	Motor	7.83	222	1	222	2	
1	UBHO	1.64	437X	1	437X	1070	
1	NMDL	9.26	Reed	1	Reed	8.0	
1	NMDL	9.39	EPH43A	1	EPH43A	10.0	
5	178 DC	47.60	LQ4592	5	LQ4592	49.2	
1	Jar	4.86	878.79.5	1	878.79.5		
12	178 DC	114.39	1105	12	1105		
1	X/O	1.42	540	1	540		
9	HWDP	82.77	565	9	565		
TOTAL			634.2	8.9			
D.P.		STANDS		CUTTING STRUCTURE		CENTRIFUGE	
D.P.		SINGLES		T ₁ T ₂ MDC LOC B Gage ODC Reason Pulled Total Run m/hr.		HOURS RUN INTAKE DENSITY OVERFLOW DENSITY UNDERFLOW DENSITY	
KELLY DOWN				HOLE CONDITION		HOURS RUN INTAKE DENSITY OVERFLOW DENSITY UNDERFLOW DENSITY	
TOTAL				HOLE DRAG		HOURS RUN INTAKE DENSITY OVERFLOW DENSITY UNDERFLOW DENSITY	
WT. OF DC		28,000	1000 daN	TORQUE AT BOTTOM		HOURS RUN INTAKE DENSITY OVERFLOW DENSITY UNDERFLOW DENSITY	
WT. OF STRING		66,000	1000 daN	FILL ON BOTTOM (m)		HOURS RUN INTAKE DENSITY OVERFLOW DENSITY UNDERFLOW DENSITY	

DRILLING ASSEMBLY (At End of Tour)		LENGTH		BIT RECORD		MUD RECORD	
NO.	BIT	O.D. (mm)	LENGTH (m)	BIT NO.	SIZE (mm)	MUD TYPE	WATER BASED
1	Motor	7.83	222	1	222	2	
1	UBHO	1.64	437X	1	437X	1070	
1	NMDL	9.26	Reed	1	Reed	8.0	
1	NMDL	9.39	EPH43A	1	EPH43A	10.0	
5	178 DC	47.60	LQ4592	5	LQ4592	49.2	
1	Jar	4.86	878.79.5	1	878.79.5		
12	178 DC	114.39	1105	12	1105		
1	X/O	1.42	540	1	540		
9	HWDP	82.77	565	9	565		
TOTAL			634.2	8.9			
D.P.		STANDS		CUTTING STRUCTURE		CENTRIFUGE	
D.P.		SINGLES		T ₁ T ₂ MDC LOC B Gage ODC Reason Pulled Total Run m/hr.		HOURS RUN INTAKE DENSITY OVERFLOW DENSITY UNDERFLOW DENSITY	
KELLY DOWN				HOLE CONDITION		HOURS RUN INTAKE DENSITY OVERFLOW DENSITY UNDERFLOW DENSITY	
TOTAL				HOLE DRAG		HOURS RUN INTAKE DENSITY OVERFLOW DENSITY UNDERFLOW DENSITY	
WT. OF DC		29,000	1000 daN	TORQUE AT BOTTOM		HOURS RUN INTAKE DENSITY OVERFLOW DENSITY UNDERFLOW DENSITY	
WT. OF STRING				FILL ON BOTTOM (m)		HOURS RUN INTAKE DENSITY OVERFLOW DENSITY UNDERFLOW DENSITY	

DRILLING ASSEMBLY (At End of Tour)		LENGTH		BIT RECORD		MUD RECORD	
NO.	BIT	O.D. (mm)	LENGTH (m)	BIT NO.	SIZE (mm)	MUD TYPE	WATER BASED
1	Motor	7.83	222	1	222	2	
1	UBHO	1.64	437X	1	437X	1070	
1	NMDL	9.26	Reed	1	Reed	8.0	
1	NMDL	9.39	EPH43A	1	EPH43A	10.0	
5	178 DC	47.60	LQ4592	5	LQ4592	49.2	
1	Jar	4.86	878.79.5	1	878.79.5		
12	178 DC	114.39	1105	12	1105		
1	X/O	1.42	540	1	540		
9	HWDP	82.77	565	9	565		
TOTAL			634.2	8.9			
D.P.		STANDS		CUTTING STRUCTURE		CENTRIFUGE	
D.P.		SINGLES		T ₁ T ₂ MDC LOC B Gage ODC Reason Pulled Total Run m/hr.		HOURS RUN INTAKE DENSITY OVERFLOW DENSITY UNDERFLOW DENSITY	
KELLY DOWN				HOLE CONDITION		HOURS RUN INTAKE DENSITY OVERFLOW DENSITY UNDERFLOW DENSITY	
TOTAL				HOLE DRAG		HOURS RUN INTAKE DENSITY OVERFLOW DENSITY UNDERFLOW DENSITY	
WT. OF DC		29,000	1000 daN	TORQUE AT BOTTOM		HOURS RUN INTAKE DENSITY OVERFLOW DENSITY UNDERFLOW DENSITY	
WT. OF STRING		64,000	1000 daN	FILL ON BOTTOM (m)		HOURS RUN INTAKE DENSITY OVERFLOW DENSITY UNDERFLOW DENSITY	

METRES DRILLED		TIME LOG		DETAILS OF OPERATION IN SEQUENCE AND REMARKS	
FROM	TO	ELAP. TIME	CODE NO.		
1085	1105	20 65	17/18	00:00 02:15 2 1/4 2 Drill 222mm Hole F/1085m-1105m	
CIRCULATION PRESSURE (kPa)		PUMP NO. 1	PUMP NO. 2	02:15 02:30 1/4 7 R/L, Function upper Pipe 7sec ch ✓ RSPF	
10500		152	152	02:30 03:15 3/4 5 Circulate & work hole clean	
4600		@ 1105m	@ 50	03:15 08:00 4 3/4 6 P.O.D.H. Pull First 7stk pump out Rest.	
REDUCED PUMP SPEED					
DEVIATION SURVEY					
DEPTH (m)	DEVIATION (°)	DIRECTION			
NOTES				✓ Crown Saver, Fastline Clamp, Deadline Anchor.	
DRILLER SIGNATURE		BOILER		MAXIMUM EXPERIENCED HOOKLOAD	
Garry Patrick		8 10 230		69000 DAN	
		HRS. RAN		SAFETY TOPIC	
		ph		M.A.C.P.	
		STACK TEMP.		3543 KPA	

METRES DRILLED		TIME LOG		DETAILS OF OPERATION IN SEQUENCE AND REMARKS	
FROM	TO	ELAP. TIME	CODE NO.		
1105	1117	12 30	1/12	08:00 11:00 3 6 P.O.D.H. Flow ✓ HW, DC out of Hole	
CIRCULATION PRESSURE (kPa)		PUMP NO. 1	PUMP NO. 2	11:00 12:00 1 22 Pick up motor & Drive Tools	
152		152	152	12:00 13:30 1 1/2 22 Test mud Tools	
REDUCED PUMP SPEED				13:30 13:45 1/4 7 R/L, Function Blind 8 sec.	
DEVIATION SURVEY				13:45 16:00 2 1/4 6 mlu Bit & R.I.H. to 565m	
DEPTH (m)	DEVIATION (°)	DIRECTION			
NOTES				✓ Crown Saver, Fastline Clamp, Deadline Anchor	
DRILLER SIGNATURE		BOILER		MAXIMUM EXPERIENCED HOOKLOAD	
Garry Patrick		8 10 230		64000 DAN	
		HRS. RAN		SAFETY TOPIC	
		ph		M.A.C.P.	
		STACK TEMP.		3385 KPA	

METRES DRILLED		TIME LOG		DETAILS OF OPERATION IN SEQUENCE AND REMARKS	
FROM	TO	ELAP. TIME	CODE NO.		
1105	1117	12 30	1/12	16:00 16:15 1/4 10 Survey @ 565m	
CIRCULATION PRESSURE (kPa)		PUMP NO. 1	PUMP NO. 2	16:15 17:15 1 9 Slip & cut 20m	
6200		152	152	17:15 17:45 1/2 6 R/L H to 655m Bridge off	
REDUCED PUMP SPEED				17:45 18:15 1/2 3 Ream 655m - 668	
DEVIATION SURVEY				18:15 18:45 1/2 6 R/L H 669 - 792m	
DEPTH (m)	DEVIATION (°)	DIRECTION			
NOTES				18:45 19:00 1/4 10 Survey @ 792m	
DRILLER SIGNATURE		BOILER		MAXIMUM EXPERIENCED HOOKLOAD	
Garry Patrick		8 10 230		64000 DAN	
		HRS. RAN		SAFETY TOPIC	
		ph		M.A.C.P.	
		STACK TEMP.		3385 KPA	

115393

LICENCE NO.:	WELL NAME AND NO.:
OPERATOR:	CONTRACTOR:
SURFACE LOCATION:	UNIQUE ID.:
SIGNATURE OF OPERATOR'S REPRESENTATIVE:	SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) HFS Signal Pointed (if required)	Initial	Initial
(4) Well License & Stock Diagram Pointed	Initial	Initial
(5) Flare Lines Stated	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually Inspect BOP's - Flameless & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/more/month)		Initial
(2) C A O D.C. Rig Safety Inspection Checklist (one/more/month)		Initial
(3) Must Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kill checked		Initial

YEAR	MONTH	DAY	LAST	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL (m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
99	03	15	CASING	244.5	226.6	53.6	Prudential	J55	41	537.43	6.45	535
RIG NO.	58		TUBING									
FUEL @ 8:00			OR									
RIG	1.39		LINER									
BOILER												
WEATHER	TEMPERATURE	18 °C	DO/D SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL J. O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH (mm)
	CURRENT CONDITIONS		127	74.35	H.W.	78	160	4 1/2 IF 9		F-1000	Emisco	254
	WIND DIRECTION		127	29.02	E2	108	165	"	110	F-1000	Emisco	254
	ROAD		127	29.02	FR	108	165	"	110			

TIME HRS	CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL	SHALE SHAKER(S)		RENTALS/SERVICES		MOIN	DAY			
	OPER.	RIG UP & TIE DOWN	DRILL ACTUAL	HEAVING	CORING	CONO MAID & CIP	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV SURVEY	WIRE LINE LOGS	PLAN CASE & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DRL. WORK	SAFETY MTO.								NO TYPE							
	MORN.		6			1 1/2		1/4	1/4																					8	21 Derrick	Derrick			T.M.J.-17184		
	DAY		7 1/2					1/4			1/4																			8	SCREENS CHANGED	☐ YES ☒ NO			A.M.J.-8696		
	EVE		8																											8	TOP	250			TOP	84	
																														8	MIDDLE	250			MIDDLE	84	
	TOTAL		21 1/2				1 1/2		1/2	1/4		1/4																		24	BOTTOM	250			BOTTOM	84	Accum oil = .40

DRILLING ASSEMBLY (At End of Tour)				BIT RECORD				MUD RECORD						
NO.	BIT	O.D. mm	LENGTH	BIT NO.				MUD TYPE	☒ WATER BASED	☐ OIL BASED				
1	3.75 sub		1.23	SIZE	(mm)	322		TIME	02:00	04:00	06:00			
2	4.00 sub		1.23	IADC CODE	4 3 7 X			DENSITY	1180	1670	1180			
3	4.00 sub		1.23	MFG.	Reed			FUNNEL						
4	4.00 sub		1.23	TYPE	EPH43A			VIS. - (S/L)	12.0	11.0	9.0			
5	4.00 sub		1.23	SERIAL NO.	LQ4592			W.L. (cm ³)	10.0	10.0	10.0			
6	4.00 sub		1.23	JETS	(mm)	3.78/195		pH	54.3	53.8	54.9			
7	4.00 sub		1.23	DEPTH OUT	(m)			MUD MATERIALS ADDED	SOLIDS CONTROL					
8	4.00 sub		1.23	DEPTH IN	(m)	540		PRODUCT	AMOUNT X UNIT	DESILTER				
9	4.00 sub		1.23	TOTAL METRES DRILLED	(m)	413		Potassium	32 SX	HOURS RUN	INTAKE DENSITY (kgm.)	OVERFLOW DENSITY (kgm.)	UNDERFLOW DENSITY (kgm.)	
10	4.00 sub		1.23	TOTAL HOURS RUN	45.54			Fluorlex	26 SX					
11	4.00 sub		1.23	CUTTING STRUCTURE	T	T ₀	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Pump m/hr.	
12	4.00 sub		1.23					Fluorlex	6 SX	CENTRIFUGE				
13	4.00 sub		1.23					Potassium	26 SX	HOURS RUN	INTAKE DENSITY (kgm.)	OVERFLOW DENSITY (kgm.)	UNDERFLOW DENSITY (kgm.)	
14	4.00 sub		1.23								8	1170	1160	1150
15	4.00 sub		1.23								1.7			
16	4.00 sub		1.23								HOURS RUN	INTAKE DENSITY (kgm.)	OVERFLOW DENSITY (kgm.)	UNDERFLOW DENSITY (kgm.)
17	4.00 sub		1.23								8	1170	1170	

METRES DRILLED						TIME LOG		DETAILS OF OPERATION IN SEQUENCE AND REMARKS			
FROM	TO	DIG RM-R CORE-C	ROTARY R.P.M.	W/L ON BIT (1000 GMS)	FROM	TO	ELAP. TIME	CODE NO.			
895	953	58	80	14/16	06:00	04:15	4 1/4	2	Drill 222 mm hole F/895 m - 934 m		
					04:15	04:30	1/4	7	RIS Function Annular 18 sec cks ✓ RSPP		
					04:30	04:45	1/4	8	Replace O-Ring in mud line.		
					04:45	06:30	1 3/4	2	Drill F/934 m - 953 m		
					06:30	08:00	1 1/2	5	Work & clean Tight hole.		
CIRCULATION PRESSURE (kPa)						PUMP NO. 1		PUMP NO. 2			
						LINER SIZE (mm)		S.P.M.	LINER SIZE (mm)	S.P.M.	
8200						152			152	70	
REDUCED PUMP SPEED											
5200						@ 934m @		45			
DEVIATION SURVEY											
DEPTH (m)		DEVIATION (°)		DIRECTION							
NOTES						✓ Crown Saver, Fastline Clamp, Deadline Anchor					
DRILLER SIGNATURE						BOILER		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC	
Goran Poluh						HRS. RUN	ph	STACK TEMP.		M.A.C.P.	
						8	10	230		3490	

DRILLING ASSEMBLY (At End of Tour)				BIT RECORD				MUD RECORD									
NO.	BIT	C.D. mm	LENGTH	BIT NO.					MUD TYPE	☒ WATER BASED	☐ OIL BASED						
1	Bit sub		2.5 m	SIZE (mm)	222				TIME	09.00	10.00 15.00						
1	Shack sub		1.23.98 m	IADC CODE	4 3 7 x				DENSITY kg/m ³	1200	1190 1175						
1	40 NIMDC		379.26 m	MFG.	REED				FUNNEL VIS. - (S/L)								
1	175 DC		39.39 m	TYPE	EPH43A				W.L. (cm ²)	7.4	7.0 7.6						
1	7 BR		1.40 m	SERIAL NO.	LR452				pH	10.0	10.5 10.5						
4	178 DC		78.21 m	JETS (mm)	178.795					50.4	51.5 51.6						
1	Jars		4.96 m	DEPTH OUT (m)					MUD MATERIALS ADDED		SOLIDS CONTROL						
12	178 DC		114.39 m	DEPTH IN (m)	540				PRODUCT	AMOUNT X UNIT	DESILTER						
1	1/2		1.42 m	TOTAL METRES DRILLED (m)	467				Potashum	33 m	HOURS RUN INTAKE DENSITY (kg/m ³) OVERFLOW DENSITY (kg/m ³) UNDERFLOW DENSITY (kg/m ³)						
9	HWDP		82.77 m	TOTAL HOURS RUN	53 1/4				Floplex	24 m							
26	D.P.	STANDS	RHA = 267.23 m	CUTTING STRUCTURE	T ₁	T ₀	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.	CENTRIFUGE #1			
XX	D.P.	SINGLES	761.55 m											HOURS RUN	INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)
Shack-up	KELLY DOWN		2.08 m	HOLE CONDITION										CENTRIFUGE #2			
	TOTAL		1027 m	HOLE DRAG	2-4000 FT 2-3000 V												
WT. OF DC		1000 gals	28,000	TORQUE AT BOTTOM	4700 FT. LBS												
WT. OF STRING		1000 gals	53,000	FILL ON BOTTOM (m)											9 1125 1840 1150		

METRES DRILLED					TIME LOG		DETAILS OF OPERATION IN SEQUENCE AND REMARKS				
FROM	TO	D.M.R. CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 gms)	FROM	TO	ELAP. TIME	CODE NO			
953	1027	74	80	1/16	08:00	09:45	1/4	2	Drill 953m - 972m		
					09:45	10:00	1/4	7	R/Ls Function B.T.m. pipe 6 sec. ✓ RSPP		
					10:00	14:00	4	2	Drill 972m - 1009m		
					14:00	14:15	1/4	10	Survey @ 991m		
					14:15	16:00	1/4	2	Drill 1009m - 1027m		
REDUCED PUMP SPEED											
5500	@		@	50							
DEVIATION SURVEY											
DEPTH (m)	DEVIATION (%)	DIRECTION									
991	1.50	322									
					Hold watch Reg Observation meeting w/crew						
					NOTES ✓ crown Saver, Fastline Clamp, Deadline Anchor						
					Drillers Blown down 2 Times						
DRILLER SIGNATURE					BOILER HRS. RAN ph STACK TEMP.		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		M.A.C.P.
[Signature]					8 10 230		67000		w/c crew		3517

[illegible]

METRES DRILLED						TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS			
FROM	TO	DMD FEAR (CORE C)	ROTARY R.P.M.	WT. ON BIT (1000-lbs)		FROM	TO	ELAP. TIME	CODE NO.				
1027	1085	58	80	14/18		1600	24'00	8	2	Drill	1027m - 1085m		
CIRCULATION PRESSURE (kPa)		PUMP NO. 1		PUMP NO. 2									
		LINER SIZE (mm)	S.P.M.	LINER SIZE (mm)	S.P.M.								
10200		159		153	90								
REDUCED PUMP SPEED													
4600		@	1085	@	50								
DEVIATION SURVEY													
DEPTH (m)		DEVIATION (°)		DIRECTION									
NOTES						✓ Crown Saver Fastline Clamp, Deadline Anchor.							
DRILLER SIGNATURE						BOILER		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		M.A.C.F.	
						HRS. RUN	ph	STACK TEMP.					
Garry Pithers						8	10	530	62000	Connections		3595	

115392

LICENCE NO.:	WELL NAME AND NO.:
OPERATOR:	CONTRACTOR:
SURFACE LOCATION:	UNIQUE ID.:
SIGNATURE OF OPERATOR'S REPRESENTATIVE:	SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS	OPR	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection Weekly (using checklist)	Initial	Initial
(3) H/S Signs Posted (if required)	Initial	Initial
(4) Wet Location & Slipp Diagram Posted	Initial	Initial
(5) Floor Lines Stained	Initial	Initial
(6) BOP Data Performed	Initial	Initial
(7) Visually inspect BOP's - Flowlines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (ons/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (ons/c/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kicks checked		Initial

YEAR	MONTH	DAY	LAST	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB TO CSG HEAD (m)	SET AT (m)	
99	02	14	CASING	244.5	226.6	53.6	Prudential	J55	41	537.43	6.45	535	
FUEL @ 8:00			TUBING										
OR													
RIG	BOILER		LINER										
172													
WEATHER	TEMPERATURE - 21.0°C			DC/OP SIZE (in)	LINEAR MASS (kg/m)	GRADE	MIN. ID (in)	TOOL JO.T.D. (in)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
	CURRENT CONDITIONS Clear			178	154.1	DC	77	118	5/8-10	81	F-1000	Emisco	254
				127	74.35	H.W.	78	168	4 1/2 IF	9	F-1000	Emisco	254
	WIND DIRECTION			137	29.02	E2	108	165	1"	112	F-1000	Emisco	254
ROAD	Sandy Park			137	29.02	E2	108	165	1"	112	F-1000	Emisco	254

TIME - HRS	CODE NO.																					T O T A L S	SHALE SHAKER(S)		RENTALS/SERVICES		MORN	DAY						
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		21	22	23	24			25	26	NO TYPE			
MORN.		RIG UP & TEAR DOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV SURVEY	WIRE LINE LOGS	RUN CASE & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	GRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MTG.							8	Derrick Derrack	TmJ-16565			
DAY			7 3/4					1/4							1/2														8	SCREENS CHANGED	X YES ☐ NO	A.m.J-8077		
EVE.			7 1/4			1/4									1/2														8	TOP 210	TOP 84			
TOTAL			7			1/4		1/4							1/2														24	MIDDLE 250	MIDDLE 84			
																														BOTTOM 250	BOTTOM 84	Accum oil-.40		

DRILLING ASSEMBLY (At End of Tour)				BIT RECORD				MUD RECORD						
NO	BIT	O.D. mm	LENGTH	BIT NO.					MUD TYPE	☒ WATER BASED	☐ OIL BASED			
1	8.75 Sub		1.25	SIZE (mm)	222				TIME	02:00	04:00	06:00		
1	20 Stack Sub		1.25	IADC CODE	4 3 7 X				DENSITY kg/m ³	1150	1160	1170		
1	100 WJDC		379.26 m	MFG.	Reed				FUNNEL VIS. - (SL)					
1	178 DC		309.33 m	TYPE	EPH43A				W.L. (cm ²)	8.0	8.0	8.0		
1	TBR		1.80	SERIAL NO.	L24542				pH	11.0	10.5	10.5		
4	178 DC		38.21 m	JETS (mm)	2.7 8.7 9.5				PVT m ³	44.1	46.1	47.1		
1	Jar		4.86 m	DEPTH OUT (m)					MUD MATERIALS ADDED		SOLIDS CONTROL			
12	178 DC		114.39 m	DEPTH IN (m)	540				PRODUCT	AMOUNT X UNIT		DESILTER		
1	X10		1.42 m	TOTAL METRES DRILLED (m)	245				Potassium	55 SX	HOURS RUN	INTAKE DENSITY (kgm ⁻³)	OVERFLOW DENSITY (kgm ⁻³)	UNDERFLOW DENSITY (kgm ⁻³)
9	HWD		82.77 m	TOTAL HOURS RUN	25 1/2				FloPlex	23 SX				
			BHA=267.23 m	CUTTING STRUCTURE						CENTRIFUGE				
18	D.P.	STANDS		T ₁	T ₂	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.		
X	D.P.	SINGLES	523.46 m											
				HOLE CONDITION										
	KELLY DOWN		5.69 m	HOLE DRAG										
	TOTAL		785 m											
WT. OF DC		28.000	1000 gal	TORQUE AT BOTTOM										
WT. OF STRING		49.000	1000 gal	FILL ON BOTTOM (m)										

[illegible]

DRILLING ASSEMBLY (At End of Tour)				BIT RECORD				MUD RECORD				
NO.	BIT	O.D. (mm)	LENGTH	BIT NO.				MUD TYPE	☒ WATER BASED	☐ OIL BASED		
1	Bit sub		1.83	1				TIME	09:00	10:00		
1	Chuck sub		3.75	SIZE (mm)	222			DENSITY kg/m ³	1170	1200		
1	1 1/2" MDC		579.26	IADC CODE	4/37 x			FUNNEL VIS. (SL)				
1	1 1/2" DC		9.39	MFG.	Reed			W.L. (cm)	7.80	8.6		
1	TBR		1.80	TYPE	EPH43A			pH	10.5	10.0		
4	178 DC		38.21	SERIAL NO	LQ4592			Wt. (mm)	43.5	43.9		
1	Jars		4.36	JETS (mm)	575.755			MUD MATERIALS ADDED		SOLIDS CONTROL		
12	178 DC		114.37	DEPTH OUT (m)				PRODUCT	AMOUNT X UNIT	DESILTER		
1	1/2"		1.42	DEPTH IN (m)	540			CENTRIFUGE #2				
9	MWD		52.77	TOTAL METRES DRILLED (m)	298			HOURS RUN	INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)		
	BHA 267.43			TOTAL HOURS RUN	30.74			INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)		
20	D.P.	STANDS	571.37	CUTTING STRUCTURE								
	D.P.	SINGLES		T ₁	T ₂	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.
KELLYDOWN			60	HOLE CONDITION								
TOTAL			838	HOLE DRAG 4-8000 ft - 2-4000 ft								
WT. OF DC			28,000	TORQUE AT BOTTOM 4500 FT LB.								
WT. OF STRING			51,000	FILL ON BOTTOM (m)								

METRES DRILLED						TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS			
FROM	TO	H.D. R.M.R. CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 safe)	FROM	TO	ELAP. TIME	CODE NO.					
785	838	53	60	14/16	08:00	11:45	3 1/4	2	Drill 785m - 809m				
					11:45	12:15	1/2	10	Survey @ 792m				
					12:15	15:45	3 1/2	2	Drill 809m - 838m				
					15:45	16:00	1/4	5	Work & clean tight hole				
CIRCULATION PRESSURE (kPa)		PUMP NO. 1		PUMP NO. 2									
		LINER SIZE (mm)	S.P.M.	LINER SIZE (mm)	S.P.M.								
31.00		152		152	65								
REDUCED PUMP SPEED													
49.00		@		@	35								
DEVIATION SURVEY													
DEPTH (m)		DEVIATION (°)		DIRECTION									
792		1 1/4		274									
						Held Safety meeting w/crew							
						Held Environmental meeting w/crew							
						NOTES ✓ Crown Saver, Fastline Clamp, Deadline Anchor							
						Boiler Blown Down 2 Times							
DRILLER SIGNATURE						BOILER		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		M.A.C.P.	
						HRS. RAN ph STACK TEMP.							
Joe 3/1/16						6 10 230		59000		Eye Protection		2885	

DRILLING ASSEMBLY (At End of Tour)				BIT RECORD				MUD RECORD				
NO.	BIT	O.D. (mm)	LENGTH	BIT NO.				MUD TYPE ☐ WATER BASED ☐ OIL BASED				
1	5.1750		135.290	SIZE (mm)	222			TIME	17:00	21:00	24:00	
1	5.1750		135.290	IADC CODE	437X			DENSITY kg/m ³	1190	1180	1200	
1	5.1750		135.290	MFG.	Reed			FUNNEL VIS. (SL)				
1	5.1750		135.290	TYPE	EPH43A			W.L. (cm ³)	11.5	11.5	11.5	
4	5.1750		135.290	SERIAL NO.	LQ4592			pH	10.0	9.5	10.0	
1	5.1750		135.290	JETS (mm)	878795				53.5	57.7	54.7	
12	5.1750		135.290	DEPTH OUT (m)	-			MUD MATERIALS ADDED		SOLIDS CONTROL		
1	5.1750		135.290	DEPTH IN (m)	540			PRODUCT	AMOUNT X UNIT	DESILTER		
9	5.1750		135.290	TOTAL METRES DRILLED (m)	540.355			CAUSTIC	1 SK	HOURS RUN	INTAKE DENSITY (kg/m ³)	
				TOTAL HOURS RUN	393/4			FLUID LOSS	2 SK	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)	
32	D.P.	STANDS	628.37	CUTTING STRUCTURE				CENTRIFUGE				
	D.P.	SINGLES		T ₁	T ₂	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.
KELLY DOWN				HOLE CONDITION								
TOTAL				HOLE DRAG 2-3000 ↑ 6-7000 ↓								
WT. OF DC				TORQUE AT BOTTOM 4500 FT/LB								
WT. OF STRING				FILL ON BOTTOM (m)								

METRES DRILLED						TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS			
FROM	TO	D.R.O. P.M.R. CORE-G	ROTARY R.P.M.	WT. ON BIT (1000-lb/s)		FROM	TO	ELAP. TIME	CODE NO.				
838	895	57	80	14	116	16:00	16:15	1/4	7	2/5 Function Top pipe 7sec. w/ RSEP			
						16:15	23:15	7	2	Drill 838m - 895m			
						23:15	23:30	1/4	5	Work & clean Tight hole			
						23:30	24:00	1/2	10	Survey @ 878m			
CIRCULATION PRESSURE (kPa)						PUMP NO. 1		PUMP NO. 2					
LINER SIZE (mm)						S.P.M.		LINER SIZE (mm)		S.P.M.			
7700						152		152		70			
REDUCED PUMP SPEED													
5100						@		@		50			
DEVIATION SURVEY													
DEPTH (m)			DEVIATION (")		DIRECTION								
878			1 1/4		322								
NOTES													
✓ Crown Saver, Fastline Clamp, Deadline Anchor.													
DRILLER SIGNATURE						BOILER		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		M.A.C.P.	
G. P. P.						HRS. RAN		STACK TEMP.					
						8		330		56000		3438 kPa	

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LICENCE NO.: WELL NAME AND NO.: **Suncor Netla K-77-60-50-122-30**

OPERATOR: **Suncor Energy** CONTRACTOR: **AKita Drilling LTD**

SURFACE LOCATION: **K-77-60-50-122-30** UNIQUE ID: **300-K-77-060-500-122-30**

SIGNATURE OF OPERATOR'S REPRESENTATIVE: SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

(1) Daily Walk Around Inspection
(2) Detailed Inspection-Weekly (using checklist)
(3) H/S Signs Posted (if required)
(4) Well License & Stick Diagram Posted
(5) Flare Lines Staked
(6) BOP Drills Performed
(7) Visually inspect BOPs - Flarelines & Degasser Lines

(1) Rig Site Health and Safety Meeting (if/when required)
(2) C.A.O.D.C. Rig Safety Inspection Checklist (when/monthly)
(3) Meet Inspection Before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kill checked

OPR R.M.

Initial Initial
Initial Initial
Initial Initial
Initial Initial
Initial Initial
Initial Initial
Initial Initial

YEAR MONTH DAY
79 02 13

RIG NO. 58

FUEL @ 8:00

RIG NO. 60 BOILER

W E A T H E R
TEMPERATURE -20 °C
CURRENT CONDITIONS Clear
WIND DIRECTION
ROAD

LAST CASING TUBING OR LINER

O.D. (mm) MIN. I.D. (mm) kg/m MAKE GRADE NO. OF JOINTS TOTAL(m) LENGTH KB TO CSG HEAD (m) SET AT (m)

244.5 226.6 53.6 Prudential J5541 537.43 6.45 535

DC/OP SIZE (mm) LINEAR MASS (kg/m) GRADE MIN. ID (mm) TOOL JOINT (mm) TYPE THREAD NO. OF JOINTS PUMP TYPE PUMP MANUFACTURER STROKE LTH (mm)

127 15.1 DC 77 150 5/8" 9 F-1000 Emisco 254
127 74.35 HW 78 160 5/8" 9 F-1000 Emisco 254
127 29.02 E2 108 165 11
127 29.02 E3 108 165 11

TIME - HRS	CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				
	OPER.	RHS UP & TEAR DOWN	DRILL ACTUAL	REAMING	CORING	CONC MUD & CPG	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV SURVEY	WIRE LINE LOGS	RUN CASE & CEMENT	WAIT ON CEMENT	NEEVE UP B.O.P.	TEST B.O.P.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MTD	Pipe Screen	Top Drive			
	MORN.		4 1/4			2		1/4								1 1/2											
	DAY		6 1/2								1/4											3/4		1			
	EVE		6 1/2			3 1/4		1/4			1/4														1/4		
	TOTAL		17 1/4			23 1/4		1/2			1/2					1 1/2						1 1/4		1		1/2	

DRILLING ASSEMBLY (At End of Tour) LENGTH

BIT NO. 1

SIZE (mm) 222

IADC CODE 4 3 7 X

MFG. Reed

TYPE EPH43A

SERIAL NO. LQ4592

JETS (mm) 8.78795

DEPTH OUT (m) 114.39

DEPTH IN (m) 540

TOTAL METRES DRILLED (m) 41

TOTAL HOURS RUN 4 3/4

CUTTING STRUCTURE

D.P. STANDS 314.54

D.P. SINGLES

KELLY DOWN - 77

TOTAL 581

WT.OFDC 28.000

WT.OFSTRING 45.000

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

TIME 06:00

DENSITY kg/m³ 1110

FUNNEL VIS. - (S/L) 48

W.L. (cm³) 11.5

pH 10.0

PVTm3 46.8

MUD MATERIALS ADDED

SOLIDS CONTROL

PRODUCT AMOUNT X UNIT

DESILTER

CENTRIFUGE

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM 3264 FT/LB

FILL ON BOTTOM (m)

DRILLING ASSEMBLY (At End of Tour) LENGTH

BIT NO. 1

SIZE (mm) 222

IADC CODE 4 3 7 X

MFG. Reed

TYPE EPH43A

SERIAL NO. LQ4592

JETS (mm) 8.78795

DEPTH OUT (m) 114.39

DEPTH IN (m) 540

TOTAL METRES DRILLED (m) 120

TOTAL HOURS RUN 11 1/4

CUTTING STRUCTURE

D.P. STANDS 400.10

D.P. SINGLES

KELLY DOWN - 7.33

TOTAL 660

WT.OFDC 28.000

WT.OFSTRING 45.000

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

TIME 10:00 12:00 15:00

DENSITY kg/m³ 1120 1125 1120

FUNNEL VIS. - (S/L) 112

W.L. (cm³) 112

pH 10.0

PVTm3 46.8

MUD MATERIALS ADDED

SOLIDS CONTROL

PRODUCT AMOUNT X UNIT

DESILTER

CENTRIFUGE

HOLE CONDITION

HOLE DRAG 11000 ↑ 2000V

TORQUE AT BOTTOM 4500 FT/LB

FILL ON BOTTOM (m)

DRILLING ASSEMBLY (At End of Tour) LENGTH

BIT NO. 1

SIZE (mm) 222

IADC CODE 4 3 7 X

MFG. Reed

TYPE EPH43A

SERIAL NO. LQ4592

JETS (mm) 8.78795

DEPTH OUT (m) 114.39

DEPTH IN (m) 540

TOTAL METRES DRILLED (m) 185

TOTAL HOURS RUN 17 3/4

CUTTING STRUCTURE

D.P. STANDS 457.91

D.P. SINGLES 8.89

KELLY DOWN - 8.43

TOTAL 725.00

WT.OFDC 28.000

WT.OFSTRING 49.000

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

TIME 18:00 21:00 24:00

DENSITY kg/m³ 1125 1140 1150

FUNNEL VIS. - (S/L) 7.8

W.L. (cm³) 3.0

pH 10.0

PVTm3 51.7

MUD MATERIALS ADDED

SOLIDS CONTROL

PRODUCT AMOUNT X UNIT

DESILTER

CENTRIFUGE

HOLE CONDITION

HOLE DRAG 2000 ↑ 6000V

TORQUE AT BOTTOM 4570 FT/LB

FILL ON BOTTOM (m)

METRES DRILLED

FROM TO DR-O R.H.R. CORE-C ROTARY R.P.M. WT. ON BIT (1000 daN)

544 581 37 70 819

TIME LOG

FROM TO ELAP. TIME CODE NO.

00:00 01:30 1 15 Run Leak off Test, Pressure Test standpipe.

01:30 02:00 1/2 5 Displace hole to mud.

02:00 03:30 1 2 Circulate & Condition mud.

03:30 04:30 1 2 Drill 222mm Hole F/544m-553m

04:30 04:45 1/4 7 R/S, Function Annular, 18 sec cl3 / RSP

04:45 08:00 3 1/2 2 Drill F/553m-581m

REDUCED PUMP SPEED

DEVIATION SURVEY

DEPTH (m) DEVIATION (°) DIRECTION

NOTES

Held B.O.P. Drill with crew well secure 1min

✓ Crown Saver, Fastline Clamp, Deadline Anchor.

DRILLER SIGNATURE

BOILER

HRS. RAN ph STACK TEMP. MAXIMUM EXPERIENCED HOOKLOAD SAFETY TOPIC M.A.C.P.

8 10 230

METRES DRILLED

FROM TO DR-O R.H.R. CORE-C ROTARY R.P.M. WT. ON BIT (1000 daN)

581 660 79 75 110

TIME LOG

FROM TO ELAP. TIME CODE NO.

08:00 10:15 2 1/2 2 Drill 581m-609m

10:15 10:30 1/4 10 Survey @ 591m

10:30 13:00 2 1/2 2 Drill 609m-638m

13:00 14:00 1 22 Fix Pipe Screen

14:00 14:45 1/4 2 Drill 638m-648m

14:45 15:00 1/4 21 Held BOP Drill well secure 1min. *

15:00 16:00 1 2 Drill 648m-660m

REDUCED PUMP SPEED

DEVIATION SURVEY

DEPTH (m) DEVIATION (°) DIRECTION

NOTES

✓ Crown Saver, Fastline Clamp, Deadline Anchor

Blow Backer Down 2 Times

DRILLER SIGNATURE

BOILER

HRS. RAN ph STACK TEMP. MAXIMUM EXPERIENCED HOOKLOAD SAFETY TOPIC M.A.C.P.

8 10 230 53000 BOP Drill 3805

METRES DRILLED

FROM TO DR-O R.H.R. CORE-C ROTARY R.P.M. WT. ON BIT (1000 daN)

660 725 65 80 116

TIME LOG

FROM TO ELAP. TIME CODE NO.

16:00 16:30 1/2 2 Drill 660m-667m

16:30 16:45 1/4 7 R/S Function Remote choke

16:45 17:00 1/4 23 Service Top Drive

17:00 19:30 2 1/2 2 Drill 667m-695m

19:30 20:00 1/2 5 Work Tight Hole, Circulate hole clean

20:00 20:15 1/4 10 Survey @ 682m

20:15 22:30 2 1/4 2 Drill F/695m-714m

22:30 22:45 1/4 5 Work & Clean Tight hole

22:45 24:00 1 1/4 2 Drill F/714m-725m

REDUCED PUMP SPEED

DEVIATION SURVEY

DEPTH (m) DEVIATION (°) DIRECTION

NOTES

✓ Crown Saver, Fastline Clamp, Deadline Anchor.

DRILLER SIGNATURE

BOILER

HRS. RAN ph STACK TEMP. MAXIMUM EXPERIENCED HOOKLOAD SAFETY TOPIC M.A.C.P.

8 10 230 3648 KPA

115390

DAILY CHECKS	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H2S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually inspect BOP's - Flowlines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/week/month)		Initial
(2) C.A.O. I.O.C. Rig Safety Inspection Checklist (one/monthly)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown/Silver Check		Initial
(5) Motor Kills checked		Initial

YEAR	MONTH	DAY	LAST	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL (m)	KB. TO CSG HEAD (m)	SET AT (m)
RIG NO	58		CASING	244.5	226.6	53.6	Prudential	J55	41	537.43	6.45	535
FUEL @ 8:00			TUBING									
RIG	.95		OR									
BOILER			LINER									

W	TEMPERATURE	-30°C	DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JOINT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
E	CURRENT CONDITIONS	Snow	178	159.1	DC	77	178	5190		F-1000	Emisco	254
A	WIND DIRECTION		127	143.5	E2	108	165	4211F		F-1000	Emisco	254
T	ROAD		127	143.5	E2	108	165	11				

TIME - HRS	CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL	SHALE SHAKER(S)		RENTALS/SERVICES					
	OPER.	RIG UP & TEAR DOWN	DRILL ACTUAL	HEAVING	CORING	CONO. MUD & CPG	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV. SURVEY	WIRE LINE LOGS	PLAN CASE & CEMENT	WAIT ON CEMENT	NUKLE UP B.O.P.	TEST B.O.P.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DR. WORK	SAFETY MTD.	Drill Fract								NO	TYPE	ACF	DAY	TIME	
	MORN.															5 1/2	2 1/2													8	2	Derrick				
	DAY.								1							7														8			YES ☐ NO			
	EVE.		1/2				1/4	3 1/2	1/4	1														1 1/2							8					
	TOTAL		1 1/2				1/4	3 1/2	1/4	2						5 1/2	9 1/2							1 1/2							24					
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DRILLING ASSEMBLY (At End of Tour)						BIT RECORD							MUD RECORD				
NO.	BIT	O.D. mm	LENGTH									MUD TYPE	☐ WATER BASED	☐ OIL BASED			
			m	BIT NO.													
			m	SIZE (mm)								TIME					
			m	IADC CODE								DENSITY kg/m ³					
			m	MFG.								FUNNEL VIS. - (S/L)					
			m	TYPE								W.L. (cm ³)					
			m	SERIAL NO.								pH					
			m	JETS (mm)													
			m	DEPTH OUT (m)								MUD MATERIALS ADDED		SOLIDS CONTROL			
			m	DEPTH IN (m)								PRODUCT		AMOUNT X UNIT			
			m	TOTAL METRES DRILLED (m)										HOURS RUN	INTAKE DENSITY (g/cm ³)	OVERFLOW DENSITY (g/cm ³)	UNDERFLOW DENSITY (g/cm ³)
			m	TOTAL HOURS RUN													
	D.P.	STANDS	m	CUTTING STRUCTURE				B.	Gage	ODC	Reason Pulled	Total Run m/hr.	CENTRIFUGE				
	D.P.	SINGLES	m	T _f	T _o	MDC	LDC						HOURS RUN	INTAKE DENSITY (g/cm ³)	OVERFLOW DENSITY (g/cm ³)	UNDERFLOW DENSITY (g/cm ³)	
KELLYDOWN			m	HOLE CONDITION													
TOTAL			m	HOLE DRAG													
WT.OF DC			"000 lb/H	TORQUE AT BOTTOM													
WT.OF STRING			"000 lb/H	FILL ON BOTTOM (m)													
													HOURS RUN	INTAKE DENSITY (g/cm ³)	OVERFLOW DENSITY (g/cm ³)	UNDERFLOW DENSITY (g/cm ³)	

METRES DRILLED						TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS			
FROM	TO	D.D. R.M.R CORE-G	ROTARY R.P.M.	WT. ON BIT (1000 lbs)		FROM	TO	ELAP. TIME	CODE NO.				
540						00:00	05:30	5½	14	Nipple up.			
						05:30	08:00	2½	15	Pressure Test manifold			
CIRCULATION PRESSURE (kPa)	PUMP NO. 1	PUMP NO. 2											
	LINER SIZE (mm)	S.P.M.	LINER SIZE (mm)	S.P.M.									
	152		152										
REDUCED PUMP SPEED													
	@		@										
DEVIATION SURVEY													
DEPTH (m)	DEVIATION (°)		DIRECTION										
						NOTES ✓ Crown Saver, Fastline Clamp, Dwell Line Anchor.							
DRILLER SIGNATURE						BOILER		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		M.A.C.P.	
<i>Goran Patrike</i>						HRS. RAN	ph	STACK TEMP.					
						8	10	230					

DRILLING ASSEMBLY (At End of Tour)				BIT RECORD										MUD RECORD							
NO.	BIT	O.D. mm.	LENGTH											MUD TYPE		☐ WATER BASED		☐ OIL BASED			
			m	BIT NO.								TIME									
			m	SIZE (mm)								DENSITY kg/m ³									
			m	IADC CODE								FUNNEL VIS. (S/L)									
			m	MFG.								W.L. (cm ³)									
			m	TYPE								pH									
			m	SERIAL NO.																	
			m	JETS (mm)																	
			m	DEPTH OUT (m)								MUD MATERIALS ADDED		SOLIDS CONTROL							
			m	DEPTH IN (m)								PRODUCT		AMOUNT X UNIT		DESILTER					
			m	TOTAL METRES DRILLED (m)								HOURS RUN		INTAKE DENSITY (kg/m ³)		OVERFLOW DENSITY (kg/m ³)		UNDERFLOW DENSITY (kg/m ³)			
			m	TOTAL HOURS RUN																	
	D.P.	STANDS	m	CUTTING STRUCTURE				B	Gage	ODC	Reason Pulled	Total Run m/hr.	CENTRIFUGE								
	D.P.	SINGLES	m	T ₁	T ₂	T ₃	T ₄	MDC	LOC.												
KELLYDOWN			m	HOLE CONDITION																	
TOTAL			m	HOLE DRAG																	
WT. OF DC			1000 gal	TORQUE AT BOTTOM										HOURS RUN		INTAKE DENSITY (kg/m ³)		OVERFLOW DENSITY (kg/m ³)		UNDERFLOW DENSITY (kg/m ³)	
WT. OF STRING			1000 gal	FILL ON BOTTOM (m)																	

METRES DRILLED						TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS			
FROM	TO	D.R.D. R.H.R. CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)	FROM	TO	ELAR TIME	CODE NO.					
590					08:00	09:00	1	15	Pressure Test manifold				
					09:00	09:30	1/2	15	W/LU Test plug & pressure test Btm. pipe			14000	
					09:30				Top Pipe 14000				
									Circulat 10500				
									H&R valve 14000				
					REDUCED PUMP SPEED								
					@ @								
					DEVIATION SURVEY								
DEPTH (m)	DEVIATION (°)	DIRECTION			1500	1600	1	8	Pressure Test stabilizing valve & inside BOP				
									Repair pump manifold Valve				
					NOTES ✓ Crown Saver Fastline Clamp Deadline Anchor								
DRILLER SIGNATURE					BOILER HRS. RAW ph STACK TEMP.		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		M.A.C.P.		
JOG - 1/5/1					38								

DRILLING ASSEMBLY (At End of Tour)				BIT RECORD										MUD RECORD			
NO.	BIT		D.D. (mm)	LENGTH m	BIT NO.					MUD TYPE		☒ WATER BASED		☐ OIL BASED			
1	BITSub		173	1.25	Size (mm)	222				TIME							
1	SS		171	2.98	IADC CODE	437X				DENSITY kg/m ³							
1	XO		165	.37	MFG.	Reed				FUNNEL VIS. - (S/L)							
1	N/MDC		157	9.26	TYPE	EPH43B				W.L. (cm ³)							
2	XO		171	.30	SERIAL NO.	LQ4592				pH							
1	DC		178	9.39	JETS (mm)	27-775											
1	TBR		178	1.80	DEPTH OUT (m)	-				MUD MATERIALS ADDED		SOLIDS CONTROL					
4	DC		178	78.21	DEPTH IN (m)	540				PRODUCT		AMOUNT X UNIT		DESILER			
1	TBR		174	4.86	TOTAL METRES DRILLED (m)	4						HOURS RUN		INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)	
12	DC		174	114.39	TOTAL HOURS RUN	1/2								-1-			
7	D.P.		STANDS	82.77	CUTTING STRUCTURE				Total Run m/hr.				CENTRIFUGE				
	D.P.		SINGLES	267.23	T ₁	T ₂	MDC	LOC	B	Gage	OOC	Reason Pulled	HOURS RUN		INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)
KELLY DOWN				HOLE CONDITION													
TOTAL				HOLE DRAG													
WT. OF DC		28000		1000 gals	TORQUE AT BOTTOM		7182 FT/LB				HOURS RUN		INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)		
WT. OF STRING		45600		1000 gals	FILL ON BOTTOM (m)		-										

METRES DRILLED					TIME LOG		DETAILS OF OPERATION IN SEQUENCE AND REMARKS			
FROM	TO	D/D R/M/R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000/344)	FROM	TO	ELAP. TIME	CODE NO.		
540	544	4	100	8/10	16:00	17:00	1	3	Upper washed Valve	
					17:00	21:30	3	2	Plu BHA, R.I.H to -521m	
CIRCULATION PRESSURE (kPa)	PUMP NO. 1	PUMP NO. 2			21:30	23:00	1 1/2	23	Drill out Flt & Shoe	
	LINE SIZE (mm)	S.P.M.	LINE SIZE (mm)	S.P.M.	23:00	23:30	1/2	2	Drill 222mm F/540m-544m	
14500	152	80	152		23:30	23:45	1/4	5	Circulate hole clean	
REDUCED PUMP SPEED					23:45	24:00	1/4	7	RIS Function Upper pipe 7 sec cr.	
	@		@							
DEVIATION SURVEY										
DEPTH (m)	DEVIATION (°)	DIRECTION								
NOTES					✓ Crown Saver Fastline Clamp Deadline Anchor.					
DRILLER SIGNATURE					BOILER		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC	
					HRS. RAN	PH	STACK TEMP.			M.A.C.P.
					8-10	230				

115389

LICENCE NO.:	WELL NAME AND NO.:
OPERATOR:	CONTRACTOR:
SURFACE LOCATION:	UNIQUE ID.:
SIGNATURE OF OPERATOR'S REPRESENTATIVE:	SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H/S Sign Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.Q.D.C. Rig Safety Inspection Checklist (one/1g/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kils checked		Initial

[illegible]

TIME - HRS	CODE NO.	ROAD																										TOTALS	SHALE SHAKER(S)		RENTALS/SERVICES		MORN	DAY	EVE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26		NO	TYPE					
	OPER.	RIG UP & TEAR DOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV SURVEY	WIRE LINE LOGS	RUN CASE & CEMENT	WALL ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MTG.	Casing, bwh							2	Derrick	Derrick	TmJ - 15018		
MORN.															534								2 1/4							8		☐ YES ☐ NO	AmJ - 6530		
DAY															8															8					
EVE															8															8					
TOTAL															2134															24					Accum oil - .29

DRILLING ASSEMBLY (At End of Tour)				BIT RECORD										MUD RECORD										
NO.	BIT		O.D. mm	LENGTH	BIT NO.										MUD TYPE		☐ WATER BASED		☐ OIL BASED					
					SIZE (mm)								TIME											
					IADC CODE								DENSITY kg/m ³											
					MFG.								FUNNEL VIS. - (S/L)											
					TYPE								W.L. (cm ²)											
					SERIAL NO.								pH											
					JETS (mm)																			
					DEPTH OUT (m)								MUD MATERIALS ADDED		SOLIDS CONTROL									
					DEPTH IN (m)								PRODUCT		AMOUNT X UNIT		DESILTER							
					TOTAL METRES DRILLED (m)												HOURS RUN		INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)			
					TOTAL HOURS RUN																			
	D.P.	STANDS			CUTTING STRUCTURE		Y ₁	Y ₂	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.	CENTRIFUGE								
	D.P.	SINGLES														HOURS RUN		INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)				
	KELLY DOWN				HOLE CONDITION																			
	TOTAL				HOLE DRAG																			
WT. OF DC				1000 dals	TORQUE AT BOTTOM												HOURS RUN		INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)			
WT. OF STRING				1000 dals	FILL ON BOTTOM (m)																			

METRES DRILLED							TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS			
FROM	TO	D.R.D. R.M.R. CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)	FROM	TO	ELAP. TIME	CODE NO.						
					00:00	02:45	234	14	Nipple down diverter					
					02:45	05:00	234	22	Make up casing Bowl.					
					05:00	08:00	3	14	Nipple up B.O.P.'s					
CIRCULATION PRESSURE (kPa)		PUMP NO. 1		PUMP NO. 2										
		LINER SIZE (mm)	S.P.M.	LINER SIZE (mm)	S.P.M.									
		152		152										
REDUCED PUMP SPEED														
		@		@										
DEVIATION SURVEY														
DEPTH (m)		DEVIATION (°)		DIRECTION										
					NOTES									
					✓ Crown Saver, Fastline Clamp, Deadline Anchor.									
DRILLER SIGNATURE					BOILER		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		M.A.C.P.			
					HRS. RAN	ph	STACK TEMP.							
Gean Petrus					8	10	230							

DRILLING ASSEMBLY (At End of Tour)				BIT RECORD										MUD RECORD								
NO.	BIT	O.D. mm	LENGTH											MUD TYPE		☐ WATER BASED		☐ OIL BASED				
			m	BIT NO.								TIME										
			m	SIZE (mm)								DENSITY kg/m ³										
			m	IADC CODE								FUNNEL VIS. - (S/L)										
			m	MFG.								W.L. (cm ³)										
			m	TYPE								pH										
			m	SERIAL NO.																		
			m	JETS (mm)																		
			m	DEPTH OUT (m)								MUD MATERIALS ADDED		SOLIDS CONTROL								
			m	DEPTH IN (m)								PRODUCT		AMOUNT X UNIT		DESILIER						
			m	TOTAL METRES DRILLED (m)												HOURS RUN		INTAKE DENSITY (g/cm ³)	OVERFLOW DENSITY (g/cm ³)	UNDERFLOW DENSITY (g/cm ³)		
			m	TOTAL HOURS RUN																		
	D.P.	STANDS	m	CUTTING STRUCTURE				B	Gage	ODC	Reason Pulled	Total Run m/hr.	CENTRIFUGE									
	D.P.	SINGLES	m	Y ₁	Y ₂	MDC	LOC						HOURS RUN		INTAKE DENSITY (g/cm ³)	OVERFLOW DENSITY (g/cm ³)	UNDERFLOW DENSITY (g/cm ³)					
	KELLY DOWN		m	HOLE CONDITION																		
	TOTAL		m	HOLE DRAG																		
WT. OF DC			1000 daN	TORQUE AT BOTTOM										HOURS RUN						INTAKE DENSITY (g/cm ³)	OVERFLOW DENSITY (g/cm ³)	UNDERFLOW DENSITY (g/cm ³)
WT. OF STRING			1000 daN	FILL ON BOTTOM (m)																		

METRES DRILLED					TIME LOG		DETAILS OF OPERATION IN SEQUENCE AND REMARKS				
FROM	TO	D.R.D. T.M.D. CORE-G	ROTARY R.P.M.	WT. ON BIT (1000 daN)	FROM	TO	ELAP. TIME	CODE NO			
					08:00	14:00	8	14	Nipple up Bore		
CIRCULATION PRESSURE (kPa)	PUMP NO. 1		PUMP NO. 2								
	LINER SIZE (mm)	S.P.M.	LINER SIZE (mm)	S.P.M.							
	152		152								
REDUCED PUMP SPEED											
	@		@								
DEVIATION SURVEY											
DEPTH (m)	DEVIATION (°)		DIRECTION								
					NOTES Crown Saver, Fastline Clamp, Deadline Anchor						
DRILLER SIGNATURE					BOILER		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		M.A.C.P.
					HRS. RUN	ph	STACK TEMP.				
					8	10	230				

DRILLING ASSEMBLY (At End of Tour)				BIT RECORD										MUD RECORD							
NO.	BIT	O.D. mm	LENGTH	BIT NO.											MUD TYPE	☐ WATER BASED	☐ OIL BASED				
			m	SIZE	(mm)										TIME						
			m	IADC CODE										DENSITY kg/m ³							
			m	MFG.											FUNNEL VIS. - (S/L)						
			m	TYPE											W.L. (cm ³)						
			m	SERIAL NO.											pH						
			m	JETS	(mm)																
			m	DEPTH OUT	(m)										MUD MATERIALS ADDED		SOLIDS CONTROL				
			m	DEPTH IN	(m)										PRODUCT		AMOUNT X UNIT				
			m	TOTAL METRES DRILLED	(m)																
			m	TOTAL HOURS RUN																	
	D.P.	STANDS	m	CUTTING STRUCTURE				B	Gage	ODC	Reason Pulled	Total Run m/hr.						CENTRIFUGE			
	D.P.	SINGLES	m	T ₁	T ₂	MDC	LOC											HOURS RUN			
			m															INTAKE DENSITY (kg/m ³)			
			m															OVERFLOW DENSITY (kg/m ³)			
			m															UNDERFLOW DENSITY (kg/m ³)			
	KELLY DOWN			HOLE CONDITION																	
	TOTAL			HOLE DRAG																	
	WT. OF DC			1000 dash	TORQUE AT BOTTOM															HOURS RUN	
	WT. OF STRING			1000 dash	FILL ON BOTTOM (m)															INTAKE DENSITY (kg/m ³)	
																				OVERFLOW DENSITY (kg/m ³)	
																				UNDERFLOW DENSITY (kg/m ³)	

METRES DRILLED						TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS			
FROM	TO	DRD PM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)		FROM	TO	ELAP TIME	CODE (NO.)				
						16:00	24:00	8	14	NIPPLE UP			
CIRCULATION PRESSURE (kPa)	PUMP NO. 1		PUMP NO. 2										
	LINER SIZE (mm)	S.P.M.	LINER SIZE (mm)	S.P.M.									
	152		152										
REDUCED PUMP SPEED													
	@		@										
DEVIATION SURVEY													
DEPTH (m)	DEVIATION (°)		DIRECTION										
NOTES						✓ Crown Saver, First Line Clamp, Dead Line Anchor.							
DRILLER SIGNATURE						BOILER		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		M.A.C.P.	
						HRS. RUN	DR	STACK TEMP.					
						8	10	230					

115388

LICENCE NO.:	WELL NAME AND NO.:
OPERATOR:	CONTRACTOR:
SURFACE LOCATION:	UNIQUE ID:
SIGNATURE OF OPERATOR'S REPRESENTATIVE:	SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H2S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flame Lines Striped	Initial	Initial
(6) BOP Delta Performed	Initial	Initial
(7) Visually inspect BOP's - Flowlines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/month)		Initial
(3) Main Inspection Before Raising or Lowering		Initial
(4) Crown Sewer Checkoff		Initial
(5) Motor Kills checked		Initial

[illegible]

TIME HOURS	CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	T O T A L S	SHALE SHAKER(S)		RENTALS/SERVICES		MOF	DAY	E				
		AS UP & TEAR DOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIP	TRIPS	RIG SERVICE	REPAIR RIG	CUT-OFF DRILL LIFE	DEV SURVEY	WIRE LINE LOGS	IRON CASE & CEMENT	WAIT ON CEMENT	PIPE B.O.P	TEST B.O.P	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MTG.	HOURS		HOURS		SCREENS CHANGED		YES	NO	SCREENS CHANGED	YES				NO			
MORN						3 1/2						4 1/2											Hand H.P. Tests						8	2	Derrick			Tm J 15004					
DAY																													8	TOP	84	TOP	84			Am J 6516			
EVE						1/4		1/4				2 1/4	5								1/4								8	MIDDLE	↓	MIDDLE	↓						
TOTAL																													24	BOTTOM	↓	BOTTOM	↓			Acc oil 39			

DRILLING ASSEMBLY (At End of Tour)				BIT RECORD										MUD RECORD							
NO.	BIT		LENGTH											MUD TYPE		☐ WATER BASED		☐ OIL BASED			
				BIT NO.											TIME						
				SIZE (mm)											DENSITY kg/m ³						
				IADC CODE										FUNNEL VIS. - (S/L)							
				MFG.											W.L. (cm ²)						
				TYPE											pH						
				SERIAL NO.																	
				JETS (mm)																	
				DEPTH OUT (m)											MUD MATERIALS ADDED		SOLIDS CONTROL				
				DEPTH IN (m)											PRODUCT	AMOUNT X UNIT	DESILTER				
				TOTAL METRES DRILLED (m)													HOURS RUN	INTAKE DENSITY (g/cm ³)	OVERFLOW DENSITY (g/cm ³)	UNDERFLOW DENSITY (g/cm ³)	
				TOTAL HOURS RUN																	
	D.P.	STANDS		CUTTING STRUCTURE			B	Gage	ODC	Reason Pulled	Total Run m/hr.										
				T ₁	T ₂	MDC	LOC														
	D.P.	SINGLES												CENTRIFUGE							
														HOURS RUN	INTAKE DENSITY (g/cm ³)	OVERFLOW DENSITY (g/cm ³)	UNDERFLOW DENSITY (g/cm ³)				
KELLY DOWN				HOLE CONDITION																	
TOTAL				HOLE DRAG																	
WT. OF DC			100 -400	TORQUE AT BOTTOM										HOURS RUN	INTAKE DENSITY (g/cm ³)	OVERFLOW DENSITY (g/cm ³)	UNDERFLOW DENSITY (g/cm ³)				
WT. OF STRING			100 1000	FILL ON BOTTOM (m)																	

METRES DRILLED						TIME LOG		DETAILS OF OPERATION IN SEQUENCE AND REMARKS					
FROM	TO	D.R.O. P.M.P. CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 gms)		FROM	TO	ELAP. TIME	CODE NO.				
						00:00	00:15	1/4	5	Breaker etc.			
						00:15	01:30	1/4	6	R.I.H survey every 100m 378 R.I.H TO 540m.			
						01:30	02:00	1/2	5	Circulate work string			
						02:00	02:15	1/4	10	Survey @ 503			
						02:15	02:30	1/4	7	Rio Service			
						02:30	04:15	1 3/4	6	PATH To 178 D.C. Blow Mupline P.O.H TO 228D.C.			
						04:15	05:15	1	22	Lay down 228mm D.C. + subs			
						05:15	07:45	2 1/2	12	Rig up to run casing			
						07:45	08:00	1/4	21	Hold Safety meeting			
						NOTES ✓ Crown Saver, Leadline anchor, Fast line clamp							
CIRCULATION PRESSURE (kPa)						PUMP NO. 1		PUMP NO. 2					
						LINER SIZE (mm)	S.P.M.	LINER SIZE (mm)	S.P.M.				
6400						152	75	152	75				
REDUCED PUMP SPEED													
		@		@									
DEVIATION SURVEY													
DEPTH (m)		DEVIATION (°)		DIRECTION									
STRAP = 539.52													
Measured = 540m													
Diff = .48 m													
DRILLER SIGNATURE						BOILER		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		M.A.C.P.	
						HRS. RAN	ph	STACK TEMP,					
						8	10	830					

DRILLING ASSEMBLY (At End of Tour)				BIT RECORD										MUD RECORD									
NO.	BIT	O.D. mm	LENGTH											MUD TYPE		☒ WATER BASED		☐ OIL BASED					
			m	BIT NO.								TIME											
			m	SIZE (mm)								DENSITY kg/m ³											
			m	IADC CODE								FUNNEL VIS. - (S/L)											
			m	MFG.								W.L. (cm ³)											
			m	TYPE								pH											
			m	SERIAL NO.																			
			m	JETS (mm)																			
			m	DEPTH OUT (m)								MUD MATERIALS ADDED		SOLIDS CONTROL									
			m	DEPTH IN (m)								PRODUCT		AMOUNT X UNIT		DESILTER							
			m	TOTAL METRES DRILLED (m)												HOURS RUN		INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)			
			m	TOTAL HOURS RUN																			
	D.P.	STANDS		CUTTING STRUCTURE		T ₁	T ₂	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.	CENTRIFUGE								
	D.P.	SINGLES															HOURS RUN		INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)		
KELLY DOWN				HOLE CONDITION																			
TOTAL				HOLE DRAG																			
WT. OF DC			1000 gals	TORQUE AT BOTTOM														HOURS RUN		INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)	
WT. OF STRING			1000 gals	FILL ON BOTTOM (m)																			

		METRES DRILLED					TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS			
		FROM	TO	D.R.G. R.M.P. CORE-C	ROTARY R.P.M.	WT ON BIT (1000 gms)	FROM	TO	ELAP TIME	CODE NO				
DAY TOUR		540					08:00	11:30	3½	12	make up shoe & float Run casing.			
							11:30	13:00	1½	5	Break Circ. work Casing			
							13:00	14:00	1	12	Continue Running casing.			
							14:00			5	Circulate Rig out Lay down & power Tongs.			
								16:00	2		Rig up Cementers.			
	REDUCED PUMP SPEED													
		@		@										
	DEVIATION SURVEY													
		DEPTH (m)	DEVIATION (°)		DIRECTION									
						NOTES ✓ Crown Saver, Fastline Clamp, Deadline Anchor								
DRILLER SIGNATURE						BOILER				MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		M.A.C.P.
						HRS. RAN	ph	STACK TEMP.						
						8	10	230						

DRILLING ASSEMBLY (At End of Tour)				BIT RECORD										MUD RECORD			
NO.	LENGTH		BIT NO.							MUD TYPE		☐ WATER BASED		☐ OIL BASED			
	BIT	O.D./mm.		SIZE (mm)							TIME						
				IADC CODE							DENSITY kg/m ³						
				MFG.							FUNNEL VIS. - (S/L)						
				TYPE							W.L. (cm ³)						
				SERIAL NO.							pH						
				JETS (mm)													
				DEPTH OUT (m)							MUD MATERIALS ADDED		SOLIDS CONTROL				
				DEPTH IN (m)							PRODUCT	AMOUNT X UNIT	DESILTER				
				TOTAL METRES DRILLED (m)									HOURS RUN	INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)	
				TOTAL HOURS RUN													
	D.P.	STANDS		CUTTING STRUCTURE				B	Gage	ODC	Reason Pulled	Total Run m/hr.	CENTRIFUGE				
				T ₁	T ₂	T ₃	MDC	LDC					HOURS RUN	INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)	
	D.P.	SINGLES															
	KELLY DOWN			HOLE CONDITION													
	TOTAL			HOLE DRAG													
WT. OF DC			1200 (lb)	TORQUE AT BOTTOM													
WT. OF STRING			1200 (lb)	FILL ON BOTTOM (m)													

METRES DRILLED						TIME LOG		DETAILS OF OPERATION IN SEQUENCE AND REMARKS			
FROM	TO	D.R.O. R.M.A. CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 LBS)		FROM	TO	ELAP. TIME	CORE NO.		
540						16:00	16:15	¼	7	Rig service	
						16:15	16:30	¼	5	Circulate & work casing.	
						16:30	16:45	¼	21	Safety meeting	
						16:45	16:30	1 ¾	12	Make up cement head & cement	
						18:30	19:00	½	12	RIG OUT CEMENTERS	
						19:00	24:00	5	14	Nipple Down Diverter	
REDUCED PUMP SPEED											
	@		@								
DEVIATION SURVEY											
DEPTH (m)	DEVIATION (°)		DIRECTION								
						CEMENTED WITH 35 TUNING RFL + 1% COLL. + 2% D ₄ (100% EXCESS) 5m³ Good Cement RETURNS. Cement Top STABLE AT SURFACE. Plug Down @ 19:30					
						NOTES ✓ Crown Saver, Fastline Clamp, Deadline anchor					
DRILLER SIGNATURE						BOILER		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC	
						HRS. RUN	ph	STACK TEMP.		M.A.C.P.	
						9	10	230			

115386

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LICENCE NO.: WELL NAME AND NO.: **Suncor Netla K-77-60-50-122-30**

OPERATOR: **Suncor Energy** CONTRACTOR: **Akita Drilling LTD.**

SURFACE LOCATION: **K-77-60-50-122-30** UNIQUE ID: **300K7706050012230**

SIGNATURE OF OPERATOR'S REPRESENTATIVE: SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

(1) Daily Walk Around Inspection
(2) Detailed Inspection-Weekly (using checklist)
(3) HPS Signs Posted (if required)
(4) Well License & Deck Diagram Posted
(5) Flow Lines Staked
(6) BOP Drills Performed
(7) Visually inspect BOP's - Flarelines & Degasser Lines

(1) Rig Site Health and Safety Meeting (one/week/month)
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/week/month)
(3) Mast Inspection Before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kils checked

WEATHER

YEAR: 99 MONTH: 02 DAY: 08

RIG NO: 58

FUEL @ 8:00

RIG: 136

BOILER

TEMPERATURE °C

CURRENT CONDITIONS

WIND DIRECTION

ROAD

O.D. (mm) MIN. I.D. (mm) kg/m MAKE GRADE NO. OF JOINTS TOTAL(m) LENGTH KB. TO CSG HEAD (m) SET AT (m)

LAST CASING TUBING OR LINER

DC/DP SIZE (mm) LINEAR MASS (kg/m) GRADE MIN. ID (mm) TOOL JOINT D. (mm) TYPE THREAD NO. OF JOINTS PUMP TYPE PUMP MANUFACTURER STROKE LTR (mm)

137 29.02 E2 108 165 5"XH 18 F-1000 Ennsco 254

F-1000 Ennsco 254

TIME - HRS	CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTALS	SHALE SHAKER(S)		RENTALS/SERVICES		MORN	DAY	EVE				
	OPER.	RIG UP & TEAR DOWN	DRILL ACTUAL	REAMING	CORING	CORO MUD & CEM	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV. SURVEY	WIRE LINE LOGS	RUN CASE & CEMENT	WAIT ON CEMENT	RIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIP WORK	SAFETY MTG.	Pump Sections	Break out	Change Bits				NO.	TYPE									
	MORN		6/4					1/4			1/2												1		1/4	1/4				8	2 Derrick					MS SLC 5222			
	DAY		2/4 2					1/4			1/2															1/4				8	TOP 84	TOP 84					MS ACC 13710		
	EVE		6					1/2			1/2																			8	MIDDLE 84	MIDDLE 84							
TOTAL		14/6	2				1/4 1/2			1/4													1		1/4	1/4	1/4		24	BOTTOM 84	BOTTOM 84		Acc. oil 24						

DRILLING ASSEMBLY (At End of Tour)

NO. BIT 311 O.D. (mm) 1.35

SIZE (mm) 311

IADC CODE 1117

MFG. REED

TYPE HP11

SERIAL NO. 431711

JETS (mm) 20 15 15

DEPTH OUT (m) 298

DEPTH IN (m) 0

TOTAL METRES DRILLED (m) 298

TOTAL HOURS RUN 22.4

CUTTING STRUCTURE MDC LOC B Gage ODC Reason Pulled Total Run m/hr.

3 D.P. STANDS 86.46

D.P. SINGLES

KELLYDOWN 17.29

TOTAL 298

WT. OF DC 40000

WT. OF STRING 40000

BIT RECORD

BIT NO. 1

MUD TYPE ☒ WATER BASED ☐ OIL BASED

TIME 02:00 04:00 06:00

DENSITY kg/m³ 1040 1040 1040

FUNNEL VIS. - (S/L) 98 93 96

W.L. (cm³) 12 12 12

pH 11 11 11

PVT M³ 45.8 44.7 43.5

MUD MATERIALS ADDED

PRODUCT AMOUNT X UNIT

SOLIDS CONTROL

HOURS RUN INTAKE DENSITY (g/cm³) OVERFLOW DENSITY (g/cm³) UNDERFLOW DENSITY (g/cm³)

8 1040 1020 1730

DESILTER

CENTRIFUGE

HOURS RUN INTAKE DENSITY (g/cm³) OVERFLOW DENSITY (g/cm³) UNDERFLOW DENSITY (g/cm³)

8 1040 1020 1730

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM 35223 FT/LBS

FILL ON BOTTOM (m)

METRES DRILLED

FROM TO CHD R.M. CORE-C ROTARY R.P.M. WT. ON BIT (1000 daN)

237 298 61 160 9/9

TIME LOG

FROM TO ELAP. TIME CODE NO.

00:00 02:00 2 2 Drill 311mm hole F/237m-255m

02:00 03:00 1 22 Clean out pump sections

03:00 03:45 1/4 2 Drill 311mm hole F/255-257m

03:45 03:30 1/4 10 Survey @ 256m

03:30 03:45 1/4 7 Rig Service

03:45 06:30 2 2 Drill F/257m-286m

06:30 06:45 1/4 10 Survey @ 286m

06:45 08:00 1/4 2 Drill F/286m-298m

DEVIATION SURVEY

DEPTH (m) DEVIATION (°) DIRECTION

256 1/4

286 3/4

NOTES

✓ Crown Saver, dead line anchor, fast line clamp

Solid 5

DRILLER SIGNATURE

BOILER HRS. RAN ph STACK TEMP. MAXIMUM EXPERIENCED HOOKLOAD SAFETY TOPIC M.A.C.P.

For Cash 8 10 230

DRILLING ASSEMBLY (At End of Tour)

NO. BIT 311 O.D. (mm) 1.35

SIZE (mm) 311

IADC CODE 1117

MFG. REED

TYPE HP11

SERIAL NO. 431711

JETS (mm) 20 15 15

DEPTH OUT (m) 315

DEPTH IN (m) 0

TOTAL METRES DRILLED (m) 315

TOTAL HOURS RUN 24.2

CUTTING STRUCTURE MDC LOC B Gage ODC Reason Pulled Total Run m/hr.

3 D.P. STANDS 86.46

D.P. SINGLES

KELLYDOWN

TOTAL 315.29

WT. OF DC 32000

WT. OF STRING 40000

BIT RECORD

BIT NO. 1 2

MUD TYPE ☒ WATER BASED ☐ OIL BASED

TIME 09:00 12:00

DENSITY kg/m³ 1040 1

FUNNEL VIS. - (S/L) 94

W.L. (cm³) 12

pH 11

PVT M³ 46.4

MUD MATERIALS ADDED

PRODUCT AMOUNT X UNIT

SOLIDS CONTROL

HOURS RUN INTAKE DENSITY (g/cm³) OVERFLOW DENSITY (g/cm³) UNDERFLOW DENSITY (g/cm³)

8 1040 1020 1730

DESILTER

CENTRIFUGE

HOURS RUN INTAKE DENSITY (g/cm³) OVERFLOW DENSITY (g/cm³) UNDERFLOW DENSITY (g/cm³)

8 1040 1020 1730

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

METRES DRILLED

FROM TO CHD R.M. CORE-C ROTARY R.P.M. WT. ON BIT (1000 daN)

298 315 17 160 9/9

TIME LOG

FROM TO ELAP. TIME CODE NO.

08:00 10:15 2 2 Drill 311mm Hole F/298m-315m

10:15 10:30 1/4 10 Survey @ 315m

10:30 10:45 1/4 23 Try To Break Circulation, Packed off

10:45 13:30 2 6 P.O.O.H.

13:30 13:45 1/4 24 Change Bits.

13:45 14:00 1/4 7 RK

14:00 16:00 2 3 R.I.H., Ream F/20m-100m

DEVIATION SURVEY

DEPTH (m) DEVIATION (°) DIRECTION

315 0°

NOTES

✓ Crown Saver, Fastline Clamp, Deadline Anchor.

DRILLER SIGNATURE

BOILER HRS. RAN ph STACK TEMP. MAXIMUM EXPERIENCED HOOKLOAD SAFETY TOPIC M.A.C.P.

Gary Patrick 8 10 230

DRILLING ASSEMBLY (At End of Tour)

NO. BIT 311 O.D. (mm) 1.35

SIZE (mm) 311

IADC CODE 1117

MFG. H.C.

TYPE J1

SERIAL NO. 87703

JETS (mm) 30 15 15

DEPTH OUT (m) 315

DEPTH IN (m) 315

TOTAL METRES DRILLED (m) 86

TOTAL HOURS RUN 6

CUTTING STRUCTURE MDC LOC B Gage ODC Reason Pulled Total Run m/hr.

6 D.P. STANDS 172.39

D.P. SINGLES

KELLYDOWN 22

TOTAL 401

WT. OF DC 43000

WT. OF STRING 43000

BIT RECORD

BIT NO. 2

MUD TYPE ☒ WATER BASED ☐ OIL BASED

TIME 19:00 21:00 24:00

DENSITY kg/m³ 1040 1065 1070

FUNNEL VIS. - (S/L) 96 97 96

W.L. (cm³) 10.8 10.5 10.5

pH 11.0 10.5 10.5

PVT M³ 42.0 40.8 39.6

MUD MATERIALS ADDED

PRODUCT AMOUNT X UNIT

SOLIDS CONTROL

HOURS RUN INTAKE DENSITY (g/cm³) OVERFLOW DENSITY (g/cm³) UNDERFLOW DENSITY (g/cm³)

6 1040 1065 1070

DESILTER

CENTRIFUGE

HOURS RUN INTAKE DENSITY (g/cm³) OVERFLOW DENSITY (g/cm³) UNDERFLOW DENSITY (g/cm³)

6 1040 1065 1070

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM 4800 FT/LBS

FILL ON BOTTOM (m)

METRES DRILLED

FROM TO CHD R.M. CORE-C ROTARY R.P.M. WT. ON BIT (1000 daN)

315 401 86 170 9/8

TIME LOG

FROM TO ELAP. TIME CODE NO.

16:00 17:30 1 2 R.I.H. F/100m-315m

17:30 19:00 1 2 Drill 311mm Hole F/315m-343m

19:00 19:15 1/4 10 Survey @ 333m

19:15 21:30 2 2 Drill F/343m-372m

21:30 21:45 1/4 10 Survey @ 362m

21:45 24:00 2 2 Drill F/372m-401m

DEVIATION SURVEY

DEPTH (m) DEVIATION (°) DIRECTION

333 1/4

362 1/4

NOTES

✓ Crown Saver, dead line anchor, fast line clamp

DRILLER SIGNATURE

BOILER HRS. RAN ph STACK TEMP. MAXIMUM EXPERIENCED HOOKLOAD SAFETY TOPIC M.A.C.P.

For Cash 8 10 230

FOLD HERE →

115385

LICENCE NO.: WELL NAME AND NO.: **Suncor Netla K-77-60-50-122-30**

OPERATOR: **Suncor Energy** CONTRACTOR: **Akita Drilling LTD.**

SURFACE LOCATION: **K-77-60-50-122-30** UNIQUE ID: **300K7706050012230**

SIGNATURE OF OPERATOR'S REPRESENTATIVE: SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

(1) Daily Walk Around Inspection

(2) Detailed Inspection Weekly (using checklist)

(3) H/S Signs Posted (if required)

(4) Well Location & Stock Diagram Posted

(5) Flare Lines Disposed

(6) BGP Drills Performed

(7) Visually inspect BGP's - Flarelines & Degasser Lines

(1) Rig Site Health and Safety Meeting (one/twomonth)

(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/twomonth)

(3) Mast Inspection Before Raising or Lowering

(4) Crown Saver Checked

(5) Motor Kils checked

YEAR: **99** MONTH: **02** DAY: **07**

RIG NO: **58**

FUEL @ 8:00

BOILER

TEMPERATURE °C

CURRENT CONDITIONS

WIND DIRECTION

ROAD

O.D. (mm) MIN. I.D. (mm) kg/m MAKE GRADE NO. OF JOINTS TOTAL(m) LENGTH KB. TO CSG HEAD (m) SET AT (m)

DC/DP SIZE (mm) LINEAR MASS (kg/m) GRADE MIN. ID (mm) TOOL JOINT (mm) TYPE THREAD NO. OF JOINTS PUMP TYPE PUMP MANUFACTURER STROKE (TH. mm)

TIME	CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTALS	SHAPE SHAKER(S)	RENTALS/SERVICES	MORN	DAY	EVE
OPER	RIG UP & TEAR DOWN	DRILL ACTUAL	REAMING	CORING	CORING	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV. SURVEY	WIRE LINE LOGS	RUN CASE & CEMENT	WAIT ON CEMENT	RIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MTG	Handle Tools	Screens										
MORN						3/4	1/4			1/4												2 1/2	2 1/4										
DAY		6 3/4					1/4																										
EVE		7 1/4								3/4																							
TOTAL		16				3/4	1/2			2												2 1/2	2 1/4										

DRILLING ASSEMBLY (At End of Tour)

BIT NO. **1** LENGTH **1.35**

SIZE (mm) **311**

IADC CODE **1117**

MFG. **REED**

TYPE **HP-11**

SERIAL NO. **431711**

JETS (mm) **20 15 15**

DEPTH OUT (m) **0**

DEPTH IN (m) **0**

TOTAL METRES DRILLED (m) **47**

TOTAL HOURS RUN **2**

CUTTING STRUCTURE

D.P. STANDS

D.P. SINGLES

KELLYDOWN **5.82**

TOTAL **47**

WT. OF DC **23000**

WT. OF STRING **23000**

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☒ OIL BASED

TIME

DENSITY kg/m³

FUNNEL VIS. (S/L)

W.L. (cm³)

pH

MUD MATERIALS ADDED

SOLIDS CONTROL

DESILTER

CENTRIFUGE

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM **3200 FT/LBS**

FILL ON BOTTOM (m)

METRES DRILLED

FROM TO

ROTARY R.P.M.

WT. ON BIT (1000 daN)

TIME LOG

FROM TO ELAP. TIME CODE NO.

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

0 47 47 100% 3/5 00:00 02:30 2 22 P/M 328mm D.C. To spud

02:30 03:00 1/2 2 Drill F/O-25m

03:00 03:45 3/4 23 Change screens on both shakers F/300 to 140 1/2

03:45 04:00 1/4 2 Drill F/25-31m

04:00 04:15 1/4 5 Displace hole to mud

04:15 05:15 1 2 Drill 311mm hole F/31m-40m

05:15 05:30 1/4 10 Survey @ 30m

05:30 05:45 1/4 7 Rig Service

05:45 06:00 1/4 23 Drill F/40-47

06:00 07:30 1 1/2 23 Change shaker screens to 84 1/2

07:30 08:00 1/2 5 Treat mud

NOTES ✓ Crown saver, deadline anchor, fastline clamp

Accum - 29

DRILLER SIGNATURE

HRS. RAN ph STACK TEMP. MAXIMUM EXPERIENCED HOOKLOAD SAFETY TOPIC M.A.C.P.

DRILLING ASSEMBLY (At End of Tour)

BIT NO. **1** LENGTH **1.35**

SIZE (mm) **311**

IADC CODE **1117**

MFG. **REED**

TYPE **HP-11**

SERIAL NO. **431711**

JETS (mm) **20 15 15**

DEPTH OUT (m) **0**

DEPTH IN (m) **0**

TOTAL METRES DRILLED (m) **162**

TOTAL HOURS RUN **8 3/4**

CUTTING STRUCTURE

D.P. STANDS

D.P. SINGLES

KELLYDOWN **- 2.00**

TOTAL **162.24**

WT. OF DC **33000**

WT. OF STRING **33000**

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☒ OIL BASED

TIME

DENSITY kg/m³

FUNNEL VIS. (S/L)

W.L. (cm³)

pH

MUD MATERIALS ADDED

SOLIDS CONTROL

DESILTER

CENTRIFUGE

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM **3200 FT/LBS**

FILL ON BOTTOM (m)

METRES DRILLED

FROM TO

ROTARY R.P.M.

WT. ON BIT (1000 daN)

TIME LOG

FROM TO ELAP. TIME CODE NO.

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

47 162 115 100% 3/6 08:00 08:30 1/2 2 Drill 311mm Hole F/47m-55m

08:30 08:45 1/4 7 RK

08:45 09:45 1 2 Drill F/55m-69m

09:45 10:00 1/4 10 Survey @ 59m

10:00 11:30 1 1/2 2 Drill F/69m-98m

11:30 11:45 1/4 10 Survey @ 89m

11:45 13:30 1 3/4 2 Drill F/98m-126m

13:30 14:00 1/4 10 Survey @ 115m

14:00 15:15 1/4 2 Drill F/126m-155m

15:15 15:30 1/4 10 Survey @ 146m - mud Run

15:30 16:00 1/2 2 Drill F/155m-162m

NOTES ✓ Crown Saver, Fastline Clamp, Deadline Anchor.

DRILLER SIGNATURE

HRS. RAN ph STACK TEMP. MAXIMUM EXPERIENCED HOOKLOAD SAFETY TOPIC M.A.C.P.

DRILLING ASSEMBLY (At End of Tour)

BIT NO. **1** LENGTH **1.35**

SIZE (mm) **311**

IADC CODE **1117**

MFG. **REED**

TYPE **HP-11**

SERIAL NO. **431711**

JETS (mm) **20 15 15**

DEPTH OUT (m) **0**

DEPTH IN (m) **0**

TOTAL METRES DRILLED (m) **237**

TOTAL HOURS RUN **16**

CUTTING STRUCTURE

D.P. STANDS

D.P. SINGLES

KELLYDOWN **20.37**

TOTAL **237**

WT. OF DC **40000**

WT. OF STRING **40000**

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☒ OIL BASED

TIME

DENSITY kg/m³

FUNNEL VIS. (S/L)

W.L. (cm³)

pH

MUD MATERIALS ADDED

SOLIDS CONTROL

DESILTER

CENTRIFUGE

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM **3900 FT/LBS**

FILL ON BOTTOM (m)

METRES DRILLED

FROM TO

ROTARY R.P.M.

WT. ON BIT (1000 daN)

TIME LOG

FROM TO ELAP. TIME CODE NO.

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

162 237 75 100% 1/8 16:00 16:15 1/4 2 Drill 311mm Hole F/162m-164m

16:15 16:30 1/4 10 Survey @ 155m

16:30 18:30 2 2 Drill F/164m-192m

18:30 18:45 1/4 10 Survey @ 182m

18:45 20:48 2 2 Drill F/192m-219m

20:45 21:00 1/4 10 Survey @ 209m

21:00 24:00 3 2 Drill F/219m-237m

NOTES ✓ Crown Saver, deadline anchor, fastline clamp

DRILLER SIGNATURE

HRS. RAN ph STACK TEMP. MAXIMUM EXPERIENCED HOOKLOAD SAFETY TOPIC M.A.C.P.

115384

LICENCE NO.:	WELL NAME AND NO.:
Operator:	Contractor:
Surface Location:	Unique ID.:
Signature of Operator's Representative:	Signature of Contractor's Rig Manager:

DAILY CHECKS	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) HFS Signs Posted (if required)	Initial	Initial
(4) Wall Slogan & Stick Diagram Posted	Initial	Initial
(5) Flame Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/mth/month)		Initial
(3) Most Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

[illegible]

TIME - HRS	CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTALS	SHALE SHAKER(S)		RENTALS/SERVICES		MORN	DAY	EVE	TOTAL
	OPER	RIG UP & TEAR DOWN	DRILL ACTUAL	REAMING	CORING	CONO MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV SURVEY	WIRE LINE LOGS	RUN CASE & CEMENT	WAIT ON CEMENT	NEPPEL UP B.O.P.	TEST B.O.P.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR WORK	SAFETY MTG.	22	23	24	25	26		NO	TYPE	YES	NO				
MORN																							Top Drive	Divulter				8								
DAY																												8								
EVE																												8								
TOTAL																												24								

DRILLING ASSEMBLY (At End of Tour)				BIT RECORD										MUD RECORD					
NO.	BIT	O.D. mm	LENGTH											MUD TYPE		☐ WATER BASED		☐ OIL BASED	
			m	BIT NO.								TIME							
			m	SIZE (mm)								DENSITY kg/m ³							
			m	IADC CODE								FUNNEL VIS. - (S/L)							
			m	MFG.								W.L. (cm ³)							
			m	TYPE								pH							
			m	SERIAL NO.															
			m	JETS (mm)															
			m	DEPTH OUT (m)								MUD MATERIALS ADDED		SOLIDS CONTROL					
			m	DEPTH IN (m)								PRODUCT		AMOUNT X UNIT		DESILTER			
			m	TOTAL METRES DRILLED (m)								Gel		30 SX		HOURS RUN	INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)
			m	TOTAL HOURS RUN								Soda Ash		1 SX					
	D.P.	STANDS	m	CUTTING STRUCTURE															
			m	T ₁	T ₂	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.							
	D.P.	SINGLES	m																
KELLY DOWN			m	HOLE CONDITION															
TOTAL			m	HOLE DRAG															
WT. OF DC			1000 g/N	TORQUE AT BOTTOM															
WT. OF STRING			1000 g/N	FILL ON BOTTOM (m)															

METRES DRILLED					TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS			
FROM	TO	D.R.O. R.M.F. CORE-C	POT-HY R.P.M.	WT.-ON BIT (1000 dbf)	FROM	TO	ELAP. TIME	CODE NO.				
					00:00	06:00	6	23	Rig up Top drive			
					06:00	08:00	2	23	Rig up diverter			
CIRCULATION PRESSURE (kPa)	PUMP NO. 1	PUMP NO. 2										
LINER SIZE (mm)	S.P.M.	LINER SIZE (mm)	S.P.M.									
REDUCED PUMP SPEED												
@		@										
DEVIATION SURVEY												
DEPTH (m)	DEVIATION (°)	DIRECTION										
NOTES					✓ deadline anchor							
DRILLER SIGNATURE					HRS. RUN	BOILER pH	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.		
[Signature]					3	10	310					

MORNING TOUR

DRILLING ASSEMBLY (At End of Tour)				BIT RECORD										MUD RECORD						
NO.	BIT	Q.D. mm	LENGTH											MUD TYPE		☐ WATER BASED		☐ OIL BASED		
			m	BIT NO.																
			m	SIZE (mm)								TIME								
			m	IADC CODE								DENSITY kg/m ³								
			m	MFG.								FUNNEL VIS. - (S/L)								
			m	TYPE								W.L. (cm ³)								
			m	SERIAL NO.								pH								
			m	JETS (mm)																
			m	DEPTH OUT (m)								MUD MATERIALS ADDED		SOLIDS CONTROL						
			m	DEPTH IN (m)								PRODUCT		AMOUNT X UNIT		DESILTER				
			m	TOTAL METRES DRILLED (m)								Gel		10 SX		HOURS RUN	INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)	
			m	TOTAL HOURS RUN								Caustic		5 SX						
	D.P.	STANDS	m	CUTTING STRUCTURE				B	Gage	ODG	Reason Pulled	Total Run m/hr.								
	D.P.	SINGLES	m	T ₁	T ₂	MDC	LOC						CENTRIFUGE							
			m	HOLE CONDITION																
	KELLY DOWN		m																	
	TOTAL		m	HOLE DRAG																
WT.OF DC			1000 gN	TORQUE AT BOTTOM																
WT.OF STRING			1000 gN	FILL ON BOTTOM (m)																

METRES DRILLED					TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS				
FROM	TO	D.R. R.M.P. CODE-C	ROTARY R.P.M.	WT. ON BIT (1000 LBS)	FROM	TO	ELAP. TIME	CODE NO.					
					08:00	16:00	8	23	Run up Diverter, Blew line Cut & weld Flow nipple, + Sledge for blow line				
CIRCULATION PRESSURE (kPa)		PUMP NO. 1		PUMP NO. 2									
		LINER SIZE (mm)	S.P.M.	LINER SIZE (mm)	S.P.M.								
		152		152									
REDUCED PUMP SPEED													
		@		@									
DEVIATION SURVEY													
DEPTH (m)		DEVIATION (°)		DIRECTION									
NOTES					✓ Decline Anchor, Fastline Clamp.								
DRILLER SIGNATURE					BOILER		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		M.A.C.P.		
HRS. RAN					ph		STACK TEMP.						
8					10		210						

DRILLING ASSEMBLY (At End of Tour)				BIT RECORD										MUD RECORD											
NO.	BIT	O.D. (mm)	LENGTH											MUD TYPE		☐ WATER BASED		☐ OIL BASED							
			m	BIT NO.										TIME											
			m	SIZE (mm)										DENSITY kg/m ³											
			m	IADC CODE										FUNNEL VIS. - (S/L)											
			m	MFG.										W.L. (cm ³)											
			m	TYPE										pH											
			m	SERIAL NO.																					
			m	JETS (mm)																					
			m	DEPTH OUT (m)										MUD MATERIALS ADDED		SOLIDS CONTROL									
			m	DEPTH IN (m)										PRODUCT		AMOUNT X UNIT		DESILTER							
			m	TOTAL METRES DRILLED (m)														HOURS RUN		INTAKE DENSITY (kg/m ³)		OVERFLOW DENSITY (kg/m ³)		UNDERFLOW DENSITY (kg/m ³)	
			m	TOTAL HOURS RUN																					
	D.P.	STANDS	m	CUTTING STRUCTURE				B	Gage	ODC	Reason Pulled	Total Run m/hr.					CENTRIFUGE								
	D.P.	SINGLES	m	T ₁	T ₂	T ₃	MDC	LOC									HOURS RUN		INTAKE DENSITY (kg/m ³)		OVERFLOW DENSITY (kg/m ³)		UNDERFLOW DENSITY (kg/m ³)		
KELLY DOWN			m	HOLE CONDITION																					
TOTAL			m	HOLE DRAG																					
WT. OF DC		1000 g/N		TORQUE AT BOTTOM										HOURS RUN		INTAKE DENSITY (kg/m ³)		OVERFLOW DENSITY (kg/m ³)		UNDERFLOW DENSITY (kg/m ³)					
WT. OF STRING		1000 g/N		FILL ON BOTTOM (m)																					

METRES DRILLED					TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS				
FROM	TO	DHD P.M.R. CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 LBS)	FROM	TO	ELAP. TIME	CODE NO.					
					16:00	20:00	4	23	Finish Rig up Blow line.				
					20:00	23:30	3 1/2	24	Prep to spud				
					23:30	24:00	1/2	31	Pie spud meeting.				
CIRCULATION PRESSURE (kPa)	PUMP NO. 1	PUMP NO. 2											
	LINER SIZE (mm)	S.P.M.	LINER SIZE (mm)	S.P.M.									
REDUCED PUMP SPEED													
	@		@						Set TOR 20' 800 FT/LBS				
DEVIATION SURVEY													
DEPTH (m)	DEVIATION (°)		DIRECTION										
NOTES					✓ deadline anchor, Fastline clamp								
DRILLER SIGNATURE					HRS. RAN	BOILER ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		M.A.C.P.	
[Signature]					8	10	210						

115383

LICENCE NO.:	WELL NAME AND NO.:
Operator:	Contractor:
Surface Location:	Unique ID:
Signature of Operator's Representative:	Signature of Contractor's Rig Manager:

DAILY CHECKS	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) HSS Signs Posted (if required)	Initial	Initial
(4) Wall License & Back Diagram Posted	Initial	Initial
(5) Plans Lined Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually Inspect BOP's - Flowlines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crow/month)		Initial
(2) C A O.D.C. Rig Safety Inspection Checklist (one/1g/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Killy checked		Initial

[illegible][illegible]

DRILLING ASSEMBLY (At End of Tour)				BIT RECORD										MUD RECORD									
NO.	BIT	O.D. mm	LENGTH											MUD TYPE		☐ WATER BASED		☐ OIL BASED					
			m	BIT NO.								TIME											
			m	SIZE (mm)								DENSITY kg/m ³											
			m	IADC CODE								FUNNEL VIS. - (S/L)											
			m	MFG.								W.L. (cm ³)											
			m	TYPE								pH											
			m	SERIAL NO.																			
			m	JETS (mm)																			
			m	DEPTH OUT (m)								MUD MATERIALS ADDED		SOLIDS CONTROL									
			m	DEPTH IN (m)								PRODUCT		AMOUNT X UNIT		DESILTER							
			m	TOTAL METRES DRILLED (m)												HOURS RUN		INTAKE DENSITY (g/cm ³)		OVERFLOW DENSITY (g/cm ³)		UNDERFLOW DENSITY (g/cm ³)	
			m	TOTAL HOURS RUN																			
	D.P.	STANDS	m	CUTTING STRUCTURE				B	Gage	ODC	Reason Pulled	Total Run m/hr.											
	D.P.	SINGLES	m	T ₁	T ₂	LOC	LOC																
KELLY DOWN			m	HOLE CONDITION																			
TOTAL			m	HOLE DRAG																			
WT. OF DC			1200 daN	TORQUE AT BOTTOM																			
WT. OF STRING			1200 daN	FILL ON BOTTOM (m)																			

METRES DRILLED					TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS				
FROM	TO	D&D PM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 LBS)	FROM	TO	ELAP. TIME	CODE NO.					
					08:00	17:00	9	1	Rig up Floor unbridle blocks, rig up floor Pie-fabs.				
CIRCULATION PRESSURE (kPa)	PUMP NO. 1	PUMP NO. 2											
	LINER SIZE (mm)	S.P.M.	LINER SIZE (mm)	S.P.M.									
REDUCED PUMP SPEED													
	@		@										
DEVIATION SURVEY													
DEPTH (m)	DEVIATION (%)		DIRECTION										
NOTES													
DRILLER SIGNATURE					HRS. RAN	BOILER ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.			
					8								

DRILLING ASSEMBLY (At End of Tour)				BIT RECORD										MUD RECORD				
NO.	BIT	O.D. (mm)	LENGTH	BIT NO.							MUD TYPE	☐ WATER BASED	☐ OIL BASED					
			m	SIZE	(mm)						TIME							
			m	IADC CODE							DENSITY kg/m ³							
			m	MFG.							FUNNEL VIS. - (S/L)							
			m	TYPE							W.L. (cm ³)							
			m	SERIAL NO.							pH							
			m	JETS	(mm)													
			m	DEPTH OUT	(m)						MUD MATERIALS ADDED		SOLIDS CONTROL					
			m	DEPTH IN	(m)						PRODUCT	AMOUNT X UNIT	DESILTER					
			m	TOTAL METRES DRILLED	(m)								HOURS RUN	INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)		
			m	TOTAL HOURS RUN														
	D.P.	STANDS		CUTTING STRUCTURE				B	Gage	ODC	Reason Pulled	Total Run m/hr.	CENTRIFUGE					
			m	T ₁	T ₂	MDC	LOC						HOURS RUN	INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)		
	D.P.	SINGLES																
KELLYDOWN				HOLE CONDITION														
TOTAL				HOLE DRAG														
WT. OF DC			1000 GAL	TORQUE AT BOTTOM											HOURS RUN	INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)
WT. OF STRING			1000 GAL	FILL ON BOTTOM (m)														

[illegible]

DRILLING ASSEMBLY (At End of Tour)				BIT RECORD										MUD RECORD									
NO	BIT	O.D. mm	LENGTH											MUD TYPE		☐ WATER BASED		☐ OIL BASED					
			m	BIT NO.								TIME											
			m	SIZE (mm)								DENSITY kg/m ³											
			m	IADC CODE								FUNNEL VIS. - (S/L)											
			m	MFG.								W.L. (cm ³)											
			m	TYPE								pH											
			m	SERIAL NO.																			
			m	JETS (mm)																			
			m	DEPTH OUT (m)								MUD MATERIALS ADDED		SOLIDS CONTROL									
			m	DEPTH IN (m)								PRODUCT		AMOUNT X UNIT		DESILTER							
			m	TOTAL METRES DRILLED (m)												HOURS RUN		INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)			
			m	TOTAL HOURS RUN																			
	D.P.	STANDS	m	CUTTING STRUCTURE				B	Gage	ODC	Reason Pulled	Total Run m/hr.					CENTRIFUGE						
	D.P.	SINGLES	m	T ₁	T ₂	MDR	LOC										HOURS RUN		INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)		
KELLYDOWN			m	HOLE CONDITION																			
TOTAL			m	HOLE DRAG																			
WT. OF DC			1000 gN	TORQUE AT BOTTOM														HOURS RUN		INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)	
WT. OF STRING			1000 gN	FILL ON BOTTOM (m)																			

[illegible]

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115382

LICENCE NO.:	WELL NAME AND NO.:
OPERATOR:	CONTRACTOR:
SURFACE LOCATION:	UNIQUE ID.:
SIGNATURE OF OPERATOR'S REPRESENTATIVE:	SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection Weekly (using checklist)	Initial	Initial
(3) H/S Signs Posted (if required)	Initial	Initial
(4) Well License & Stock Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (once/month)	Initial	Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (once/month)	Initial	Initial
(3) Mast Inspection Before Raising or Lowering	Initial	Initial
(4) Crown Safety Checked	Initial	Initial
(5) Motor Kits checked	Initial	Initial

YEAR	MONTH	DAY	LAST CASING TUBING OR LINER	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
99	02	04										
RIG NO.	58											
FUEL @ 8:00												
RIG	BOILER											
WEATHER	TEMPERATURE	°C	DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JOINT (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
	CURRENT CONDITIONS											
	WIND DIRECTION											
	ROAD											

TIME	CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTALS	SHAPE SHAKER(S)	RENTALS/SERVICES	MORNING	DAY	EVENING
OPER.		DRILL ACTUAL	REAMING CORING	CONC. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV. SURVEY	WIRE LINE LOGS	RUN CASE & CEMENT	WAIT ON CEMENT	NIPPLE UP R.O.P.	TEST B.O.P.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MTG.													
MORNING																																	
DAY																																	
EVE																																	
TOTAL																																	

NO.	DRILLING ASSEMBLY (At End of Tour)	LENGTH	BIT RECORD	MUD RECORD	METRES DRILLED	TIME LOG	DETAILS OF OPERATION IN SEQUENCE AND REMARKS		
	BIT	O.D. (mm)	BIT NO.	MUD TYPE ☐ WATER BASED ☐ OIL BASED	FROM	TO	ELAP. TIME	CODE NO.	
			SIZE (mm)	TIME					
			DENSITY kg/m ³	DENSITY					
			FUNNEL VIS. (S/L)	FUNNEL VIS. (S/L)					
			W.L. (cm ³)	W.L. (cm ³)					
			pH	pH					
			JETS (mm)						
			DEPTH OUT (m)	MUD MATERIALS ADDED					
			DEPTH IN (m)	PRODUCT	AMOUNT X UNIT				
			TOTAL METRES DRILLED (m)						
			TOTAL HOURS RUN						
	D.P.	STANDS	CUTTING STRUCTURE						
	D.P.	SINGLES	T ₁ T ₂ MDC LOC B Gage ODC Reason Pulled Total Run m/hr.						
	KELLY DOWN								
	TOTAL		HOLE CONDITION						
			HOLE DRAG						
	WT. OF DC		TORQUE AT BOTTOM						
	WT. OF STRING		FILL ON BOTTOM (m)						

NO.	DRILLING ASSEMBLY (At End of Tour)	LENGTH	BIT RECORD	MUD RECORD	METRES DRILLED	TIME LOG	DETAILS OF OPERATION IN SEQUENCE AND REMARKS		
	BIT	O.D. (mm)	BIT NO.	MUD TYPE ☐ WATER BASED ☐ OIL BASED	FROM	TO	ELAP. TIME	CODE NO.	
			SIZE (mm)	TIME					
			DENSITY kg/m ³	DENSITY					
			FUNNEL VIS. (S/L)	FUNNEL VIS. (S/L)					
			W.L. (cm ³)	W.L. (cm ³)					
			pH	pH					
			JETS (mm)						
			DEPTH OUT (m)	MUD MATERIALS ADDED					
			DEPTH IN (m)	PRODUCT	AMOUNT X UNIT				
			TOTAL METRES DRILLED (m)						
			TOTAL HOURS RUN						
	D.P.	STANDS	CUTTING STRUCTURE						
	D.P.	SINGLES	T ₁ T ₂ MDC LOC B Gage ODC Reason Pulled Total Run m/hr.						
	KELLY DOWN								
	TOTAL		HOLE CONDITION						
			HOLE DRAG						
	WT. OF DC		TORQUE AT BOTTOM						
	WT. OF STRING		FILL ON BOTTOM (m)						

NO.	DRILLING ASSEMBLY (At End of Tour)	LENGTH	BIT RECORD	MUD RECORD	METRES DRILLED	TIME LOG	DETAILS OF OPERATION IN SEQUENCE AND REMARKS		
	BIT	O.D. (mm)	BIT NO.	MUD TYPE ☐ WATER BASED ☐ OIL BASED	FROM	TO	ELAP. TIME	CODE NO.	
			SIZE (mm)	TIME					
			DENSITY kg/m ³	DENSITY					
			FUNNEL VIS. (S/L)	FUNNEL VIS. (S/L)					
			W.L. (cm ³)	W.L. (cm ³)					
			pH	pH					
			JETS (mm)						
			DEPTH OUT (m)	MUD MATERIALS ADDED					
			DEPTH IN (m)	PRODUCT	AMOUNT X UNIT				
			TOTAL METRES DRILLED (m)						
			TOTAL HOURS RUN						
	D.P.	STANDS	CUTTING STRUCTURE						
	D.P.	SINGLES	T ₁ T ₂ MDC LOC B Gage ODC Reason Pulled Total Run m/hr.						
	KELLY DOWN								
	TOTAL		HOLE CONDITION						
			HOLE DRAG						
	WT. OF DC		TORQUE AT BOTTOM						
	WT. OF STRING		FILL ON BOTTOM (m)						

115381

LICENCE NO.:	WELL NAME AND NO.:
OPERATOR:	CONTRACTOR:
SURFACE LOCATION:	UNIQUE ID.:
SIGNATURE OF OPERATOR'S REPRESENTATIVE:	SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H/S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flame Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually inspect BOP's - Parallels & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (once/monthly)	Initial	Initial
(2) C.A.O D.C. Rig Safety Inspection Checklist (once/monthly)	Initial	Initial
(3) Mast Inspection Before Raising or Lowering	Initial	Initial
(4) Growth Saver Checked	Initial	Initial
(5) Motor Kills checked	Initial	Initial

[illegible]

TIME - HRS	CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTALS	SHALE SHAKER(S)		RENTALS/SERVICES		MORN	DAY	
		RIG UP & TEAR DOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CBC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV. SURVEY	WIRE LINE LOGS	RUN CASE & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIL. WORK	SAFETY MTG.							NO.	TYPE					
	MORN																													SCREENS CHANGED ☐ YES ☐ NO					
	DAY																													TOP	TOP				
	EVE																													MIDDLE	MIDDLE				
	TOTAL																													BOTTOM	BOTTOM				

DRILLING ASSEMBLY (At End of Tour)				BIT RECORD										MUD RECORD											
NO.	BIT	O.D. mm	LENGTH	BIT NO.										MUD TYPE		☐ WATER BASED		☐ OIL BASED							
				SIZE (mm)										TIME											
				IADG CODE										DENSITY kg/m ³											
				MFG.										FUNNEL VIS. - (S/L)											
				TYPE										W.L. (cm ²)											
				SERIAL NO.										pH											
				JETS (mm)																					
				DEPTH OUT (m)										MUD MATERIALS ADDED		SOLIDS CONTROL									
				DEPTH IN (m)										PRODUCT		AMOUNT X UNIT		DESILTER							
				TOTAL METRES DRILLED (m)														HOURS RUN		INTAKE DENSITY (kg/m ³)		OVERFLOW DENSITY (kg/m ³)		UNDERFLOW DENSITY (kg/m ³)	
				TOTAL HOURS RUN																					
	D.P.	STANDS		CUTTING STRUCTURE																					
				T ₁	T ₂	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.													
	D.P.	SINGLES																							
	KELLY DOWN			HOLE CONDITION																					
	TOTAL			HOLE DRAG																					
WT.OF DC			1000 gN	TORQUE AT BOTTOM																					
WT.OF STRING			1000 gN	FILL ON BOTTOM (m)																					

METRES DRILLED							TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS			
FROM	TO	D.R.O. R.M.F.I. CORE-G.	POTARY R.P.M.	W.T. ON BIT (1000-dm)	FROM	TO	ELAP- TIME	CODE NO.						
					08:00	24:00	16	1	Rig up shop Plug power cords Set up rig lights					
CIRCULATION PRESSURE (kPa)	PUMP NO. 1		PUMP NO. 2											
	LINER SIZE (mm)	S.P.M.	LINER SIZE (mm)	S.P.M.										
REDUCED PUMP SPEED														
	@		@											
DEVIATION SURVEY														
DEPTH (m)	DEVIATION (°)		DIRECTION											
DRILLER SIGNATURE					BOILER HRS. RAN ph STACK TEMP.		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		M.A.C.P.			

MORNING TOUR

DRILLING ASSEMBLY (At End of Tour)				BIT RECORD										MUD RECORD											
NO.	BIT	O.D. (mm)	LENGTH	BIT NO.										MUD TYPE		☐ WATER BASED		☐ OIL BASED							
			m	SIZE (mm)										TIME											
			m	IADC CODE										DENSITY kg/m ³											
			m	MFG.										FUNNEL VIS. - (S/L)											
			m	TYPE										W.L. (cm ³)											
			m	SERIAL NO.										pH											
			m	JETS (mm)																					
			m	DEPTH OUT (m)										MUD MATERIALS ADDED		SOLIDS CONTROL									
			m	DEPTH IN (m)										PRODUCT		AMOUNT X UNIT		DESILTER							
			m	TOTAL METRES DRILLED (m)														HOURS RUN		INTAKE DENSITY (g/cm ³)		OVERFLOW DENSITY (g/cm ³)		UNDERFLOW DENSITY (g/cm ³)	
			m	TOTAL HOURS RUN																					
	D.P.	STANDS	m	CUTTING STRUCTURE																					
	D.P.	SINGLES	m	T ₁	T ₂	T ₃	T ₄	T ₅	T ₆	T ₇	T ₈	T ₉	T ₁₀	T ₁₁	T ₁₂	T ₁₃	T ₁₄	T ₁₅	T ₁₆	T ₁₇	T ₁₈	T ₁₉	T ₂₀		
			m	HOLE CONDITION																					
			m	HOLE DRAG																					
			m	TORQUE AT BOTTOM																					
			m	FILL ON BOTTOM (m)																					

METRES DRILLED						TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS			
FROM	TO	I.R.D. R.P.C. CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)		FROM	TO	ELAP. TIME	CODE NO.				
						12:00	14:00	8	1	Rig up shop, Pull power cords			
CIRCULATION PRESSURE (kPa)	PUMP NO. 1	PUMP NO. 2											
	LINER SIZE (mm) S.P.M.	LINER SIZE (mm) S.P.M.											
REDUCED PUMP SPEED													
	@		@										
DEVIATION SURVEY													
DEPTH (m)	DEVIATION (°)		DIRECTION										
NOTES													
DRILLER SIGNATURE						BOILER HRS. RAN ph STACK TEMP.		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		M.A.C.P.	

DRILLING ASSEMBLY (At End of Tour)				BIT RECORD										MUD RECORD									
NO.	BIT	O.D. mm	LENGTH											MUD TYPE		☐ WATER BASED		☐ OIL BASED					
			m	BIT NO.								TIME											
			m	SIZE (mm)								DENSITY kg/m ³											
			m	IADC CODE								FUNNEL											
			m	MFG.								VIS. - (S/L)											
			m	TYPE								W.L. (cm ³)											
			m	SERIAL NO.								pH											
			m	JETS (mm)																			
			m	DEPTH OUT (m)								MUD MATERIALS ADDED		SOLIDS CONTROL									
			m	DEPTH IN (m)																			
			m	TOTAL METRES DRILLED (m)								PRODUCT		AMOUNT X UNIT		DESILTER							
			m	TOTAL HOURS RUN												HOURS RUN		INTAKE DENSITY (kgm.)		OVERFLOW DENSITY (kgm.)		UNDERFLOW DENSITY (kgm.)	
	D.P.	STANDS	m	CUTTING STRUCTURE												CENTRIFUGE							
	D.P.	SINGLES	m	T ₁	T ₂	T ₃	T ₄	T ₅	T ₆	T ₇	T ₈	T ₉	T ₁₀	T ₁₁	T ₁₂							T ₁₃	T ₁₄
			m	HOLE CONDITION																			
			m	HOLE DRAG																			
WT. OF DC			1000 gH	TORQUE AT BOTTOM																			
WT. OF STRING			1000 gH	FILL ON BOTTOM (m)																			

[illegible]

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NO.		DRILLING ASSEMBLY (At End of Tour)			LENGTH		BIT RECORD										MUD RECORD										METRES DRILLED					TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS																						
		BIT		Q.D. mm		BIT NO.											MUD TYPE	☐ WATER BASED					☐ OIL BASED					FROM	TO	D.R.D. R.M.R. CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 lbs)	FROM	TO	ELAP. TIME	CODE NO.																						
					m	SIZE (mm)											TIME																																									
					m	IADC CODE											DENSITY kg/m ³																																									
					m	MFG.											FUNNEL VIS. - (S/L)																																									
					m	TYPE											W.L. (cm ²)																																									
					m	SERIAL NO.											pH																																									
					m	JETS (mm)																																																				
					m	DEPTH OUT (m)											MUD MATERIALS ADDED					SOLIDS CONTROL																																				
					m	DEPTH IN (m)											PRODUCT		AMOUNT X UNIT			DESILTER																																				
					m	TOTAL METRES DRILLED (m)																HOURS RUN		INTAKE DENSITY (kg/m ³)		OVERFLOW DENSITY (kg/m ³)		UNDERFLOW DENSITY (kg/m ³)																														
					m	TOTAL HOURS RUN																																																				
		D.P.		STANDS		m	CUTTING STRUCTURE														CENTRIFUGE																																					
		D.P.		SINGLES		m																																																				
		KELLY DOWN				m	HOLE CONDITION																																																			
		TOTAL				m	HOLE DRAG																																																			
WT.OFDC					1000 gN		TORQUE AT BOTTOM														HOURS RUN		INTAKE DENSITY (kg/m ³)		OVERFLOW DENSITY (kg/m ³)		UNDERFLOW DENSITY (kg/m ³)																															
WT.OF STRING																																																										

107518

LICENCE NO.:	WELL NAME AND NO.:
OPERATOR:	CONTRACTOR:
SURFACE LOCATION:	UNIQUE ID.:
SIGNATURE OF OPERATOR'S REPRESENTATIVE:	SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H ₂ S Sign Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (once/crewmonth)	Initial	Initial
(2) C.O.D.C. Rig Safety Inspection Checklist (once/3 months)	Initial	Initial
(3) Mast Inspection Before Raising or Lowering	Initial	Initial
(4) Crown Saver Checked	Initial	Initial
(5) Motor Kils checked	Initial	Initial

[illegible]

TIME - HRS	CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTALS	SHALE SHAKER(S)		RENTALS/SERVICES				
		RIG UP & TEAR DOWN	DRL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT-OFF DRL LINE	DEV. SURVEY	WIRE LINE LOGS	RUN CASE & CEMENT	WAIT ON CEMENT	NEPHEE UP B.O.P.	TEST B.O.P.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MTG.								NO.	TYPE	MORN.	DAY	EVE.	
	MORN.																														SCREENS CHANGED ☐ YES ☐ NO				
	DAY																														TOP:	TOP:			
	EVE.																														MIDDLE	MIDDLE			
	TOTAL																														BOTTOM	BOTTOM			

DRILLING ASSEMBLY (At End of Tour)				BIT RECORD										MUD RECORD													
NO.	Bit	O.D. mm	LENGTH	BIT NO.						MUD TYPE					☐ WATER BASED		☐ OIL BASED										
				SIZE (mm)						TIME																	
				WADC CODE							DENSITY kg/m ³																
				MPG						FUNNEL VIS. - (S/L)																	
				TYPE						W.L. (cm ³)																	
				SERIAL NO.						pH																	
				JETS (mm)																							
				DEPTH OUT (m)						MUD MATERIALS ADDED					SOLIDS CONTROL												
				DEPTH IN (m)						PRODUCT	AMOUNT X UNIT					DESILTER											
				TOTAL METRES DRILLED (m)											HOURS RUN					INTAKE DENSITY (kgm ⁻³)	OVERFLOW DENSITY (kgm ⁻³)	UNDERFLOW DENSITY (kgm ⁻³)					
				TOTAL HOURS RUN																							
	D.P.	STANDS		CUTTING STRUCTURE				B	Gage	ODC	Reason Pulled	Total Run m/hr.						CENTRIFUGE									
				T ₁	T ₂	MDC	LOC										HOURS RUN					INTAKE DENSITY (kgm ⁻³)	OVERFLOW DENSITY (kgm ⁻³)	UNDERFLOW DENSITY (kgm ⁻³)			
	D.P.	SINGLES																									
	KELLY DOWN			HOLE CONDITION																							
	TOTAL			HOLE DRAG																							
WT.OFDC				1000 psi	TORQUE AT BOTTOM															HOURS RUN					INTAKE DENSITY (kgm ⁻³)	OVERFLOW DENSITY (kgm ⁻³)	UNDERFLOW DENSITY (kgm ⁻³)
WT.OFSTRING				1000 psi	RILL ON BOTTOM (m)																						

METRES DRILLED							TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS			
FROM	TO	D.H.D. R.M.R. CORE-C	ROTARY R.P.M.	W.T. ON BIT (1000 daN)	FROM	TO	ELAP. TIME	CODE NO.						
					2000	2000	12	1	Spot matting & guys, spreaders 2nd Derrick & Drawworks					
CIRCULATION PRESSURE (kPa)	PUMP NO. 1	PUMP NO. 2												
	LINER SIZE (mm)	S.P.M.	LINER SIZE (mm)	S.P.M.										
REDUCED PUMP SPEED														
	@		@											
DEVIATION SURVEY														
DEPTH (m)	DEVIATION (°)		DIRECTION											
					NOTES									
					Held Safety Meeting w/ crane & Truckers Survey Safety R.P.									
DRILLER SIGNATURE					BOILER		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		M.A.C.P.			
					HRS. RUN	ph	STACK TEMP.							

MORNING TOUR

DRILLING ASSEMBLY (At End of Tour)				BIT RECORD										MUD RECORD											
NO.	BIT		O.D. mm	LENGTH											MUD TYPE		☐ WATER BASED		☐ OIL BASED						
				m	BIT NO.								TIME												
				m	SIZE (mm)								DENSITY kg/m ³												
				m	IADC CODE								FUNNEL VIS. - (S/L)												
				m	MPG.								W.L. (cm ³)												
				m	TYPE								pH												
				m	SERIAL NO.																				
				m	JETS (mm)																				
				m	DEPTH OUT (m)								MUD MATERIALS ADDED		SOLIDS CONTROL										
				m	DEPTH IN (m)								PRODUCT		AMOUNT X UNIT		DESILTER								
				m	TOTAL METRES DRILLED (m)												HOURS RUN		INTAKE DENSITY (g/cm ³)	OVERFLOW DENSITY (g/cm ³)	UNDERFLOW DENSITY (g/cm ³)				
				m	TOTAL HOURS RUN																				
	D.P.	STANDS		m	CUTTING STRUCTURE		T ₁	T ₂	T ₃	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.	CENTRIFUGE								
	D.P.	SINGLES		m													HOURS RUN		INTAKE DENSITY (g/cm ³)	OVERFLOW DENSITY (g/cm ³)	UNDERFLOW DENSITY (g/cm ³)				
	KELLY DOWN			m	HOLE CONDITION																				
	TOTAL			m	HOLE DRAG																				
WT. OF DC				1000 lbs	TORQUE AT BOTTOM												HOURS RUN						INTAKE DENSITY (g/cm ³)	OVERFLOW DENSITY (g/cm ³)	UNDERFLOW DENSITY (g/cm ³)
WT. OF STRING				1000 lbs	FILL ON BOTTOM (m)																				

METRES DRILLED						TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS			
FROM	TO	D.D. R.M.R CORE-C	ROTARY P.P.M.	WT. ON BIT (1000 GMS)		FROM	TO	ELAP TIME	CODE NO				
						From	20:00	12	1	Spot mudding, pop, subs Run up Derrick & Drawworks			
CIRCULATION PRESSURE (kPa)	PUMP NO. 1	PUMP NO. 2											
LINER SIZE (mm)	S.P.M.	LINER SIZE (mm)	S.P.M.										
REDUCED PUMP SPEED													
@		@											
DEVIATION SURVEY													
DEPTH (m)	DEVIATION (°)	DIRECTION											
DRILLER SIGNATURE						HRS. RAN	BOILER ph	STACK TEMP.		MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.	

DRILLING ASSEMBLY (At End of Tour)				BIT RECORD										MUD RECORD						
NO.	BIT	O.D. mm	LENGTH	BIT NO.											MUD TYPE	☐ WATER BASED	☐ OIL BASED			
			m	SIZE	(mm)										TIME					
			m	IADC CODE										DENSITY						
			m	MFG.											FUNNEL					
			m	TYPE											VIS. - (S/L)					
			m	SERIAL NO.											W.L. (cm ³)					
			m	JETS											pH					
			m	DEPTH OUT	(m)										MUD MATERIALS ADDED		SOLIDS CONTROL			
			m	DEPTH IN	(m)										PRODUCT	AMOUNT X UNIT	DESILTER			
			m	TOTAL METRES DRILLED	(m)												HOURS RUN	INTAKE DENSITY (g/cm ³)	OVERFLOW DENSITY (g/cm ³)	UNDERFLOW DENSITY (g/cm ³)
			m	TOTAL HOURS RUN																
	D.P.	STANDS	m	CUTTING STRUCTURE				B	Gage	ODC	Reason Pulled	Total Run m/hr.	CENTRIFUGE							
	D.P.	SINGLES	m	T ₁	T ₂	MDC	LOC						HOURS RUN	INTAKE DENSITY (g/cm ³)	OVERFLOW DENSITY (g/cm ³)	UNDERFLOW DENSITY (g/cm ³)				
	KELLY DOWN		m	HOLE CONDITION																
	TOTAL		m	HOLE DRAG																
WT. OF DC			1000 psi	TORQUE AT BOTTOM											HOURS RUN	INTAKE DENSITY (g/cm ³)	OVERFLOW DENSITY (g/cm ³)	UNDERFLOW DENSITY (g/cm ³)		
WT. OF STRING			1000 psi	FILL ON BOTTOM (m)																

METRES DRILLED					TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS				
FROM	TO	D.R.D. R.M.R. CORE-C	ROTARY R.P.M.	WT. DN BIT (1000-940)	FROM	TO	ELAP. TIME	CODE NO.					
CIRCULATION PRESSURE (kPa)	PUMP NO. 1		PUMP NO. 2										
	LINE SIZE (mm)	S.P.M.	LINE SIZE (mm)	S.P.M.									
REDUCED PUMP SPEED													
	@		@										
DEVIATION SURVEY													
DEPTH (m)	DEVIATION (°)		DIRECTION										
					NOTES								
DRILLER SIGNATURE					HRS. RUN	BOILER ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		M.A.C.P.	

DAILY CHECKS	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H2S Signage Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flame Lines Staked	Initial	Initial
(6) BOP Delta Performed	Initial	Initial
(7) Visually Inspect BOP's - Flowlines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/one/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/one/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Killis checked		Initial

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DRILLING ASSEMBLY (At End of Tour)				BIT RECORD				MUD RECORD				METRES DRILLED				TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS			
NO.	BIT	O.D. mm	LENGTH	BIT NO.	MUD TYPE				MUD TYPE				FROM	TO	ELAP. TIME	CODE NO.							
				SIZE (mm)	TIME																		
				IADC CODE	DENSITY kg/m ³																		
				MFG.	FUNNEL VIS. - (S/L)																		
				TYPE	W.L. (cm ³)																		
				SERIAL NO.	pH																		
				JETS (mm)																			
				DEPTH OUT (m)	MUD MATERIALS ADDED				SOLIDS CONTROL														
				DEPTH IN (m)	PRODUCT				AMOUNT X UNIT														
				TOTAL METRES DRILLED (m)																			
				TOTAL HOURS RUN																			
				CUTTING STRUCTURE																			
				T ₁	T ₂	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.											
				D.P.	STANDS																		
				D.P.	SINGLES																		
				KELLY DOWN																			
				TOTAL																			
				HOLE CONDITION																			
				HOLE DRAG																			
				TORQUE AT BOTTOM																			
				FILL ON BOTTOM (m)																			
WT.OFDC	1000 daN																						
WT.OFSTRING	1000 daN																						

DRILLING ASSEMBLY (At End of Tour)			BIT RECORD										MUD RECORD				METRES DRILLED				TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS				
NO.	BIT	O.D. mm	LENGTH											MUD TYPE		WATER BASED		OIL BASED		FROM	TO	ELAP. TIME	CODE NO.						
			m	BIT NO.										TIME															
			m	SIZE (mm)										DENSITY kg/m ³															
			m	IADC CODE										FUNNEL VIS. (S/L)															
			m	MFG.										W.L. (cm ³)															
			m	TYPE										pH															
			m	SERIAL NO.																									
			m	JETS (mm)																									
			m	DEPTH OUT (m)										MUD MATERIALS ADDED		SOLIDS CONTROL													
			m	DEPTH IN (m)										PRODUCT		AMOUNT X UNIT		DESILTER											
			m	TOTAL METRES DRILLED (m)										HOURS RUN		INTAKE DENSITY (kg/m ³)		OVERFLOW DENSITY (kg/m ³)		UNDERFLOW DENSITY (kg/m ³)									
			m	TOTAL HOURS RUN																									
	D.P.	STANDS	m	CUTTING STRUCTURE																									
	D.P.	SINGLES	m																										
	KELLYDOWN		m	HOLE CONDITION																									
	TOTAL		m	HOLE DRAG																									
WT. OF DC			1000 gmt	TORQUE AT BOTTOM										HOURS RUN		INTAKE DENSITY (kg/m ³)		OVERFLOW DENSITY (kg/m ³)		UNDERFLOW DENSITY (kg/m ³)									
WT. OF STRING			1000 gmt	FILL ON BOTTOM (m)																									

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