License N	o W	/ell Name	F	FRON'	T PAC	GE SUN	/MAR	1			)Y5252	Sheet Serial 9_2016012 ce Location		Vi Pa:			ersion Loc Type	Unique W	Year 2016	Monti 01	Day 21	1) Da 2) De	AILY Claily Walk Aroustailed Inspects S Signs Pos	und Inspect ction - Wee	tion kly (Using Check List)	OP R	3  ⊿	CAG	DC
3152 Operator	6 AR	CRES HZ	SUNR	RISE K2-2	25-78-18				Contractor		02-25-0	78-18W6			Rig No	BC E	DLS Well Type HORIZ		9-078-17W	/6/00	Re-Entry	4) We 5) Fla 6) B0	ell Licence & are Lines Sta DP Drills Perf	Stick Diag ked ormed		DB MI	<b> \</b>		
Operator's 16DRL001	S AFE							(	Contractor 6	N DRILLING 's Job No	, DIV OF P	DCLP			529		HORIZ Spud Date 2016/01/21				Ш	1) Rig 2) CA	g Site Health	& Safety N	Meeting (one/crew/mor tion Checklist (one/rig/	th) ME		oasc	
Signature Dean Boel		tor Repres	sentativ	ve					Signature MARC RA	of Contracto YMOND	r's Rig Mai	nager				I	Rig Releas	e Date Time	9			4) Cro	ast Inspectio own Saver C otor Kills Che	hecked	aising or Lowering	ME ME	₹	Pasc Kelly Bushing	
CODE	Rig	Drill Actua	l Po	3 eaming	4 Coring	Cond Mud & Circ	6 Trips	Rig	Repair	9 Cut Off Drilg Line	Dev Survey	Wireline	12 Run Csg & Cement	13 Wait On Cement	14 Nipple Up BOP	15 Test BOP	Drillste	m Plug Back	Squeez Cemer	e Eich	na [	Oir Ork	Safety Meeting	Tear Down	23 24 Waiting Rig Watc	25 Other	ТОТА		1208.00 <b>B:00 HOURS</b> 5.00 Boiler 0.00
Tour 1	7.		1.75			& GIIC		Service	Rig	Drilly Line	Survey	Logs	a cement	Cement	BUF	BUF	Test	DdUK	Genner	IL	VV	2.50	0.25 0.75	DOWII	7.75 0.50		8.1	00 ff Time	7emp 06:00 -18.00 ons
Tour 3	7.		.75 .50					0.25 0.25														2.00 4.50	1.00		8.25		24.		Wind Strength CALM
TOU	R 1	SI	IGN/	ATUR	E OF	DRILLE	ER					DUNCAN	I STEWART										STAR	т тім	E 00	:00	END TII	ME	08:00
BITS	Bit Numbe	er			DR No	Compone		MBLY ID Len		UD RE	Aud Type	Water _	Oil 🗌		ATION lepth De				Гуре		om To		psed Co	de	Detail	s of Operatio	ns in Seque	nce & Remarks	
	Siz IADC Cod	ie			H				ℲͰ		Time	ther			+	$\dashv$				$\dashv \Box$	0:00 07		7.7523B	AND I	AYLIGHT / SAFETY I DEGASSER LINES	/ MANIFOLD	SHACK		
Ma	nufacture Typ Serial N	ре								Funnel V	Density iscosity iid Loss					=				#	7:45 08	:00	0.2521	HAND	OVER MEETING	VITH CREW	S / PLAN FC	RWARD MEETIN	lG
	Je		+		$\exists$					Location of	pH Sample			SOLII	DS CC	ONTRO	OL												
D	oth Out (n epth In (n Drilled (n	n)			H						Depth PVT			Equipi Nar		Hours Run	Intake Density	Over Flow Density				$\pm$							
	Run Toda	ay			$\parallel$				_	np# Type		SPM Pres	sure Hours Run							#	+	+							
	Entry Dat	te	TURE	Ē		Drill Pipe	Sta	ands		2	127	0	0 0	MUD		Product	S ADD		nount Ty	уре									
TI	=		Gage ODC			Drill Pipe Kelly D	Down	igles	Re	marks:										=									
LOC BRG	<b>=</b> 1	Reason I Total Run			1	Weight o														Br	marks: I	INSPEC	T FLOOR F	OUIPME	NT,TONG,BACK UP	SI INGS DEA	D MAN CAT	HEAD ST-80 TUG	GER LINE HOOK
		Weight of String DRILLED HOLE COND						Down	R	EDUCE	D PUM	IP SPE	ED							IN:	SPECT CA	ATWALI	K,PIPE RA	CKS,PIPI	E RACK PINS/CHA /EL LIMITS & E- ST	NS		1270,01 00,100	DEN EINE 1100K
		1							Pun	np No. Pre	@	@	Depth	<b>Boile</b> Boiler		Hours Ru	ın	рН	Stack Ter	mp S	AFET	Y							144.00
		Fill on Bottom									@	@			396		8	11		330 WA	LK RIG T	O NEX	T WELL	Safety 1	Горіс			MEHL 15.00kdaN	MACP 0kPa
TOU	R 2	SI	IGN/	ATURI	,							JOS	H GILBERT										STAR	т тім	B0 E	:00	END TII	ME	20:00
BITS	Bit Numbe				No	Compone Compone	ent OD	ID Len	gth	IUD RE	Aud Type	Water ×	0il 🗌	Time D	epth De				Гуре	Fi	om To	Ela	psed Co	$\overline{}$		of Operatio	ns in Seque	nce & Remarks	
	Siz IADC Cod Inufacture		DREAM	279	⇃──┼	IUD MOTOR	200 R 166	0 7.	26m 56m 80m		Time Density	ther		17:15 19:15 34	0m 4.39m	0.4	139.6			- 11-	8:30 08:	-	0.50 23B 0.25 21	COP R	DAYLIGHT REVIEW ON SKID MO CKING SERVICES /		OADER AND	HOE HAND / THIR	D PARTY D AND D
	Typ Serial N	lo HT03G	LC	ML01100	1N 0 1G	IMDC SAP SUB	166	71 9.	23m 64m	Funnel V					+	$\dashv$					8:45 11:	:30	2.75 1A	MOVE OFF	MUD TANKS,DOGHOI CENTRAFUGE		ENS,DRIVE H	OUSE AND BOILER,	SHALE BINS,MIX
Des	Jet		15.9 1	15.9 15.9	18	MDC HOCK SUB		57 3.		Location of				SOLI	DS CC	ONTRO	OL				1:30 15:		4.00 1	KINES	TY MEETING AND RIG S,PASON EQUIPME	NT,PUMPS,	GENS,DOG		
D	oth Out (n epth In (n Drilled (n	n)		66	0 1X	ARS-HYD /O	168	-	48m 90m	IRCULA	Depth PVT			Equipi Nar		Hours Run	Intake Density	Over Flow Density	V Under F Densi	ity	5:30 16: 6:15 18: 8:30 18:	:30	0.751 2.2520D 0.2521F	REVIE	TY MEETING AND EW COP 2-1 AND N SPUD SAFETY INS	IAKE UP BIT	,MOTOR,MO		
Hrs Cumulati	Run Toda ve Hrs Ru	ay In		0.75						mp# Type			sure Hours Run	i <u> </u>						<u> </u>	$\overline{}$	:00	0.25 21 0.75 2	HAND	OVER MEETING V	VITH CREWS	S/PLAN FOR		
CUTTI		te 2016/0	UR	E I		Drill Pipe Drill Pipe		ands 28.	_	2 COMBIN-	127	130 6	500 3	BENTON		Product	S ADD		nount Ty		9:45 20:	:00	0.25 20A	DIREC	CTIONAL SURVEY	S/CONNECT	IONS/WORK	ING PIPE	
TI	7	Reason I	Gage ODC Pulled		- q	Kelly D				marks:				TKPP						ACH —	+	+							
LOC BRG		Total Run (				Weight of S	String	231	daN daN											Re	marks: ı	INSPEC	T FLOOR E	QUIPMEI	NT,TONG,BACK UP	SLINGS,DEA	D MAN,CAT	HEAD,ST-80,TUG	GER LINE HOOK
From Om		D-R-C	RPM 50	W0B	Hole			Down		EDUCE			<b>Depth</b>												E RACK PINS/CHA /EL LIMITS & E- ST		N SAVER		
0	COIII	Ditte		Onda	Hiorque	at Bottom on Bottom		5000.0	.00m	110	@ @	@	Борат	Boile Boiler		Hours Ru	ın 12	pH 11	Stack Ter	mp S	AFET	Y		Safety 1	Горіс			MEHL	MACP
							_				@	@								МА	KING UP							45.00kdaN	0kPa
TOU BITS	R 3	DRILLING ASS						MBL <u>Y</u>	M	UD RE	CORD	DUNCA	N STEWAR		ATION	SUR	VEYS			Т	IME L		STAR	TIM	E 20	:00	END TII	VIE	24:00
	Bit Numbe Siz	ze		279	No 18	Compone	200		gth .26m	ı	01	Water x ther	Oil 🗌	20:00 53		0.1	107.8		Гуре	$\neg$	om To	_	psed Cor 1.75 2	_	Detail 279MM hole f/66M		ns in Seque	nce & Remarks	
	IADC Cod inufacture Typ	er KING D			1X	O MOTOR	R 166	72 0	.56m .80m	Funnel V	Time Density	22:00 1040 40s/l		20:30 81 21:00 10 21:30 13	9.27m	0.4 0.4 0.6	227.2 173.8 248.2				1:45 23: 3:45 24:	$\neg$	2.00 20A 0.25 7		ERVICE	S/CONNECT	IONS/WORK	PIPE	
	Serial N	lo		ML01100	0 10	AP SUB	166	71 1	.64m		iid Loss pH	405/1		22:15 16 23:15 19		1.1 0.9	261.4 248.7			#		+							
	oth Out (n				1/	HOCK SUB ARS-HYD	168	57 5	.48m	Location of	Depth	HAKERS 150m		Equip		Hours	Intake	Over Flov											
Total	Drilled (m)   0   1\(\lambda \to O\)							71 0		IRCULA		29m3 SPM Pres	SUFE Hours Run	Nar CENTRIF		Run 4	Density 1050	Density 102	Densi	1700		+							
Cumulati	ve Hrs Ru		/21	2.50	0					1 COMBIN- 1 ED 2 COMBIN- 2 ED	140	125 8	500 4 500 4	MUD			S ADD												
TI TO	NG ST	RUCT	Gage ODC	E		Drill Pipe Drill Pipe	Sir		.00m					BENTON FLOWZA	ITE N	Product		An	20 E	ACH ACH	+	+		+					
MDC LOC	=	Reason I Total Run (	Pulled			Kelly E	Total	214	$\neg$ $\vdash$	marks:				SAWDUS					75 E	ACH	#	+							
BRG MI=TR	BRG Weight of String METRES DRILLED HOLE CONDITION							31 <b>DN</b>	kdaN											IN:	SPECT CA	ATWAL	K,PIPE RA	CKS,PIPI	NT,TONG,BACK UP E RACK PINS/CHA	NS		HEAD,ST-80,TUG	GER LINE HOOK
From         To         D-R-C         RPM         WOB         Hole Drag         Up         1         Do           66m         214m         DRILL         50         12kdaN         Torque at Bottom							5400.0	<sub>ONm</sub> Pun	np No. Pre			Depth	Boile							AFET'		ER & LOW	/ER TRA\	/EL LIMITS & E- ST	OPS,CROW	N SAVER			
Fill on Bottom							0	.00m		@	@		Boiler	r# 396	Hours Ru	Jn 4	pH 11	Stack Ter	330	ILLING SI		E HOLE	Safety 1	Горіс			MEHL 35.00kdaN	MACP 0kPa	
V. 1.3																													4 -4 4

License No	Well Name	FRON	T PAG	GE SUM	IMAR	Y			0Y5252	Sheet Serial 29_2016012 ce Location		Vendo Pason	r Software V	ersion Loc Type	Unique We	2016	Month I	22 1	DAILY C ) Daily Walk Ard ) Detailed Inspection H2S Signs Pos	ound Inspec ection - We	ction ekly (Using Che	eck List)	OP R DB MR	∃ /	CAC	DC
31526 A Operator ARC RESOURCE: Operator's AFE 16DRL0015 Signature of Oper			25-78-18				Contrac 76	tor SION DRILLING tor's Job No ire of Contract	S, DIV OF F			Rig I 529	No	Well Type HORIZ Spud Date 2016/01/21 Rig Release	Time 19:00	-078-17W6/0		Entry 6 7	Well Licence &     Flare Lines St     BOP Drills Per     Visually Inspec     Rig Site Healt     CAODC Rig Sa     Mast Inspection     Crown Saver	aked formed ted BOPs = 1 h & Safety I afety Inspec on before R	Flare Lines & De Meeting (one/o	egasser Lines crew/month) (one/rig/mon	DB MR	F	pasi	ason
CODE 1	2	3	4	5	6	7	MARC I	RAYMOND 9	10	11	12	13 1	4 15	16	17	18	19	20	) Motor Kills Ch	ecked 22	23	24	25		Kelly Bushing 5.90	0p Fuel 4625.00 08:00 HOURS
Tour 1 Tour 2 Tour 3	Drill Actual 3.00	+ +	Coring	Cond Mud & Circ 0.25 1.50	Trips 2.29 5.00	+	25		Dev Survey	Wireline Logs	Run Csg & Cement 1.00 2.75	Wait On Cement BO	le Up Test DP BOF	t Drillster Test	m Plug Back	Squeeze Cement	Fishing	Dir Work 2.0 1.7		Tear Down	Waiting On	Rig Watch	Other	8.0 12.0 4.0	Rig 26 0 Time 0 CLEAR	000.00 Boiler 0.00 06:00 Temp -18.00
Total	4.75			2.75		5 0.	50				3.75							3.7	75 1.25					24.0	0 Road Cont FAIR	Etion
TOUR 1	SIG	NATUR		DRILLE		MBLY	,	MUD RE	CORD	DUNCAN	STEWART	DEVIATI	ON SUF	RVEYS			TIM	E LO		T TIM	IE	00:00		END TIN	ME	08:00
IADC Co Manufactu Ty Serial	Size	1280	1 N 1 N 1 N 1 N 1 N 1 N 1 N 1 N 1 N 1 N	IUD MOTOR	200	8 0 3 72 6 71 6 71 6 71 4 57	0.26m 7.56m 0.80m 9.23m 1.64m 9.37m 3.79m 5.48m	Funnel \	Time Density //iscosity uid Loss pH	Water x ther 02:00 1050 42s/l TANKS	04:00 1060 49s/l	Time Depth  SOLIDS Equipment	CONTR		Over Flow	rpe Under Flov	90:00 90:30 90:40 90:40 90:40 90:40 90:40 90:40 90:40 90:40	0 00:30 0 00:45 5 01:00 0 02:15 5 03:00 0 04:00 0 06:30	Elapsed Cc 0.502 0.25 20A 0.25 5 1.25 6B 0.75 20E 1.00 6A 2.50 2	DRIL A DIRE CIRC REVI D REVI DRIL	L 279mm HC CTIONAL SI CULATE EW COP 2-1 EW COP 2-5 L 279mm HC	DLE F/214m URVEYS/C 4 AND TRIF 1 AND HAN 5 AND TRIF DLE F/235m	ONNECTI ONNECTI ONNECTI ONNECTI ONNECTI ONNECTI ONNECTI ONNECTI ONNECTI	ONS/WORK HOLE TO C	HANGE BIT BIT	S
Depth In Total Drilled Hrs Run Tot Cumulative Hrs F Entry D CUTTING S TI TO MDC	rilled (m)					8 71 ands 3	0.90m 65.04m 0.00m 0.00m 04.07m	Pump# Type 1 combine 2combine Remarks:	PVT TION Liner Size	37m3 SPM Pres 125 10	33m3 sure Hours Rur 1000 7 1000 7	Name CENTRAFUGI  MUD MA SAWDUST BENTONITE	Run	Density 8 1070 LS ADD	Density 1030	Density	07:3 90 07:4	0 07:45	0.257	RIG S	SERVICE					EWS AND ARC REP
LOC   BRG   MIETRIES D From To   214m   404m	ODC Reason Pulled Total Run (m/hr)  DRILLED  Mm DRILL  66 12.5kdaN  Total Run  DRILL GODI  HOLE CONDIT  Fill on Bottom  Fill on Bottom  Amage of DRILLER  DRILLING ASS					Down [		RIEDUGE			<b>ED</b> Depth	Boiler Boiler #	Hours R	Bun 8	pH 11	Stack Temp	FUNCT HAZAF SAF	CT CATW	JALK,PIPE RA	ACKS,PIP	PE RACK PIN VEL LIMITS RING TRIPP	S/CHAINS & E- STOP	S,FLARE A	ND DEGASS N SAVER SLIP HAZA	EAD,ST-80,TU SER LINES,LO RD, STEAME MEHL 40.00kdaN	
TOUR 2	SIG	NATUR	, .							JOS	H GILBERT									T TIM	IE	08:00	E	END TIN	/IE	20:00
IADC Cor Manufactu Ty Serial J Depth Out Depth In Total Drilled Hrs Run To Cumulative Hrs F	Size	1280 1 11.1 11.1 11.1 51 23 28 1.7 4.2 11 1RE	No 18 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Componer ATT AUD MOTOR O IMMOC SAP SUB ARS-HYD //O 8 HWDP Drill Pipe Kelly De Kelly De	nt	ID   L	9.23m 1.64m 9.37m 3.79m 5.48m 0.90m	Funnel \	Mud Type  O Time Density //iscosity uid Loss pH Sample Depth PVT Liner Size 140	125 15		SOLIDS Equipment Name CENTRIFUGE  MUD MA BENTONITE	CONTR Hours Run	Direction	Over Flow Density	Density	From  08:01  09:44  10:14  11:04  14:30  15:31  17:00  00  17:14  18:34  19:31	0 09:45 5 10:15 5 11:00 0 11:45 5 14:30 0 15:15 5 15:30 0 17:00 0 17:15 5 18:30 0 18:45 5 19:15 5 19:30	Elapsed Cc  1.75 2  0.50 20/ 0.75 8  2.75 8A  0.75 8  2.75 8A  0.75 8  0.25 21  1.50 8B  0.25 21  1.25 20  0.25 7A  0.50 12E	DRILL A DIRE CONI REVI REVI CIRC HANI TRIP SAFE DIRE RIG S RIG U SAFE RIG S RIG U SAFE RIG S RIG U SAFE RIG S RIG U	EW COP 2-E EULATE,S/M D OVER MEE OUT OF HO ETY MEETIN CTIONAL WO SERVICE,CL JP/ TO RUN ETY MEETIN	JRFACE HOURFACE HOURF	OLE FROM ONNECTH LATE ER TRIP C P AND WA ELRIG OVE H CREWS 515M-OM TO HANDL ( BIT/LAY I FLOOR REVIEW ( OWER TO	M 404M-515M ONS  DUT OF HOL SH STANDS ER WELL CE (PLAN FOR) LING TOOLS DOWN MOTO COP 3-1. SIE NG ON RUN VATOR CIRT	E FROM 515I. TO BOTTOM NTER VARD MEETI / COP 2-1 R/MONELS/ S E DOOR CEI 219MM SUR 100995 Ran	M-100M FROM 100M-515M NG WITH ARC REP HOCK SUB/JARS/ X(
LOC A  BRG X  MISTRES D  From To  404m 515m	Total Run (m.		HO Hole	Weight of Weight of St LE CON	f DC tring	ON Down	0kdaN 31kdaN	Pump No. Pre			<b>ED</b> Depth	Boiler #	Hours R	Run 12	pH 11	Stack Temp	FUNCT HAZAR	CT CATW TIONED L RD ID= ICI	/ALK,PIPE R	ACKS,PIP VER TRA	PE RACK PIN VEL LIMITS TING AROUR	S/CHAINS & E- STOP	S,FLARE A	ND DEGASS N SAVER P AND TRIP	SER LINES,LO	JGGER LINE HOOK DAD LINE TEAMING MATTING MACP
TOUR 3	SIG	NATUR	_ E <u>O</u> F	DR <u>ILL</u> E	R				9	SYLVAIN A	ARSENAUL'						[215H 1 <sup>2</sup> ]		STAF	T TIM	IE	20:00		END TIN		24:00
BITS  Bit Num S IADC Co Manufactu. Ty Serial	ber   Size   Ode     Ode			Componer	ASSE			Funnel \	Mud Type  O Time Density /iscosity uid Loss pH Sample Depth PVT TION Liner Size 140	Water x ther		SOLIDS Equipment Name CENTRIFUGE	CONTR Hours Run	Direction	Over Flow Density	Under Flov Density	From 20:00 21:30 22:30 22:44 23:00	21:30 0 22:30 0 22:45 5 23:00		RUN CONE SAFE C RIG U C CEME	219MM CAS DITION MUD & ETY MEETIN JP CEMENT ENT PUMPED	SING TO 51: & CIRCULAT IG WITH CF ERS PRES 0 4m3 AHEAU O. BUMP PI	f Operation 5M TE HOLE C REW AND SSURE TE D, 27 T TSC	LEAN MONIT CEMENTER ST IRON,BL 2 1700KG 1%	OR FOR LOSS S,REVIEW C OW BACK TO CACL2 (24.5m	PRIOR TO CEMENT
TI TO MDC LOC BRG METRES D	Ga Ga O Reason Pul Total Run (ma	age DDC lled //hr)	HO Hole Torque	Weight of Weight of St LE CON	Sir own Fotal FDC Tring	ands ngles  N Down		Remarks:	D PUN SSSURE Str @		□ Depth	SAWDUST CELLOPHANE  Boiler Boiler#	Product		Amo	ount Typese Stack Temps	Remai INSPE FUNCT HAZAF	CT CATW	/ALK,PIPE R	ACKS,PIP	PE RACK PIN VEL LIMITS D PROPERL'	S/CHAINS	S,FLARE A	ND DEGASS N SAVER D SAFETY P	IEAD,ST-80,TU SER LINES,LO IN, CONTINU MEHL 35.00kdaN	
V. 1.3			_				L										- PERMIT									

License No	Well Name	FRON	T PA	GE SUN	IMAR	Y			0Y5252	Sheet Serial 29_2016012 ce Location		Vendo Pason	r Software V	/ersion	Unique We	2016		23	DAILY C ) Daily Walk Ard ) Detailed Inspe ) H2S Signs Pos	und Insper ction - We	ction eekly (Using Ch	neck List)	OP RIN		Ad	DC
31526 Operator ARC RESOURCE Operator's AFE 16DRL0015 Signature of Ope	S	SUNRISE K2-:	25-78-18				Contract 76	or ON DRILLING, or's Job No e of Contractor	DIV OF F			Rig 529		Well Type HORIZ Spud Date 2016/01/21 Rig Releas	Time	-078-17W6/0		Entry 8	) Well Licence & ) Flare Lines St ) BOP Drills Per ) Visually Inspect ) Rig Site Healtl ) CAODC Rig Sa () Mast Inspection	aked formed ted BOPs - n & Safety tfety Inspec on before F	Flare Lines & D Meeting (one/ ction Checklist	crew/month) t (one/rig/mor		P	aso	
Maddison Mike	2	3	4	5	6	7		AYMOND 9	10	11	12	13 1	4 15		17	18	19	20	) Crown Saver ( ) Motor Kills Ch	Checked ecked	23	24	MR MR <b>25</b>	<u> </u>	Pasc Kelly Bushing 5.90	Op Fuel 3000.00
Tour 1	g Drill Actual		Coring	Cond Mud & Circ	Trips	Rig Service		r Cut Off Drilg Line	Dev Survey	Wireline Logs	Run Csg & Cement	Wait On Cement BI	2.25 BO	St Drillste P Test 1.25		Squeeze Cement	Fishing	Dir Work	Safety Meeting 0.50 0 0.50	Tear Down	Waiting On	Rig Watch	Other	8.00 12.00	2300	B:00 HOURS 0.00 Boiler 0.00 Temp 06:00 -10.00
Tour 3 Total	3.0	00			0.7							4.00		0.25 7.50				0.1	75					4.00	Wind Direction N Road Condition FAIR	Wind Strength CALM
TOUR 1	SIC	GNATUR	E OF	DRILLE	ER					SYLVAIN A	RSENAULT								STAR	T TIM	/IE	00:00	E	ND TIME		08:00
BITS Bit Nun	nber		DR No	ILLING Compone				MUD REC		Water x	Oil 🗌	DEVIATION Time Depth			Ty	rpe	TIM From	E LO	Elapsed Co	de		Details o	f Operations	in Sequence	& Remarks	
IADC 0									Time	ther							00:00	1	4.0013 0.2521	SAFE		NG ON NIPI		P REV COP5-		
Manufact Seria	Гуре							Funnel Vi	Density scosity id Loss								04:15 06:30 06:45	06:30 06:45 07:00	2.2514 0.2521 0.2515	SAFE	ETY MEETIN	NG WITH P	RESSURE 1	ESTER		PRESSURE TEST
	Jets							Location of S	pН			SOLIDS	CONTR	ROL			07:00	-	1.0015A	-						IO MIN EACH TEST
Depth Out	(m)								Depth PVT			Equipment Name	Run	Density	Over Flow Density	Density				$\pm$						
Total Drilled Hrs Run To Cumulative Hrs	oday						_	ump# Type	Liner Size	SPM Pres	sure Hours Run	CENTRIFUGE		4 1250	1240	170	00			+						
Entry I	Date	URE		Drill Pipe	St	tands	$\dashv$	2	140	0	0 0	MUD M	Product			ount Type				Ŧ						
TI		Gage ODC		Drill Pipe Kelly D		ngles	F	Remarks:				PREVENTION REDUCTION NEWSTABIL				2 EAC 5 EAC 1 EAC	:н			$\pm$						
LOC BRG	Reason Pu Total Run (n			Weight of S			_					NEWFLOC DEFOAMER D	SCO			1 EAC 2 EAC	Н	rko: INICI	DECT EL COR	FOLUDATE	ENIT TONG D	ACK LID SI	INCO DEAD	MANICATUEA	D ST 80 THC	SER LINE HOOK
METRES D		RPM WOB	НО	LE CON	IDITIO	ON Down		REDUCEI	D PUN	IP SPE	ED						INSPE	CT CATV	ALK,PIPE RA	ACKS,PIF	PE RACK PII	NS/CHAINS	S,FLARE AN	D DEGASSER	R LINES,LOAD	
			Torque	e at Bottom on Bottom			Pi	ump No. Pres	@	@	Depth	Boiler Boiler #	Hours F	Run	pH	Stack Temp	CAE	CT STAB	BING VALVE							
									@	@		39	96	8	11	28	80 NIPPLE	UP		Safety	Topic			ME	HL 16.00kdaN	MACP 0kPa
TOUR 2	: SIC	GNATUR	E OF	DRILLE	ER					DUNCAN	I STEWART								STAR	T TIM	/IE	08:00	E	ND TIME		20:00
BITS Bit Nun			No	ILLING Compone	nt OD	D ID Le	ength	MUD REC	lud Type	Water ×	Oil 🗌	Time Depth	Deviation	Direction	Ty	rpe	From	-	Elapsed Co					in Sequence		
IADC 0	Size   Sode   urer REED	15	10	MOTOR HS	15 15	9 0	0.30m 8.69m 9.35m		Time Density	18:00 1260		19:45 548.97n	1.4	337.7			08:00	14:00	6.00 15	MANU	UAL,STABBIN	IG VALVE AN	ID INS BOP,U	IPPER KELLY C	OCK,DRILLING	'ES,HCR'S AND SPOOLS,CHOKE 0 MIN EACH TEST
	Type SK616M	-A2 A22379	10	GAP SUB	12	1 68	1.71m 9.30m	Funnel Vi	1	32s/l							14:00	14:15	0.25 14E	ACCU AFTE	JMULATED FU	INCTION TES	ST:STARTING	PRESSURE:20.	9MPA,PRESSU	
	7.9	7.9 7.9 7. 7.9	10	ON MAG FLE MONEL CROSSOVER	SUB 13	4 61	9.27m 0.94m	Location of S		SHAKERS		SOLIDS		_				5 14:30	0.25 21	SAFE	TY MEETING			:7MPA,N2 BC		00PSI I HOLE REV COP
Depth Out Depth In Total Drilled	(m)	51	5 10	CROSSOVER		4 75	6.81m 0.96m 5.19m	CIRCULA	Depth PVT	515m 66m3		Equipment Name CENTRIFUGE	Run	Density	Over Flow Density	Density	14:30		2.00 20 0.75 6A	$\rightarrow$	ECTIONAL V N HOLE	VORK HANI	DLE BHA,M	WD TOOLS		
Hrs Run To Cumulative Hrs	Run	1.0	10	CROSSOVER	SUB 13		0.94m P	ump# Type 1SINGLE		_	sure Hours Run 200 2		1	10.400			17:15	17:30 18:30	0.25 21 <i>A</i> 1.00 2C	DRIL		DRILL OUT	CEMENT/D		SHOE,TAG C	EMENT @ 503M
Entry I CUTTING S		URE		Drill Pipe Drill Pipe			8.50m	2SINGLE	127	0 13	200 0	MUD MA	Produc			ount Type	18:30	-	1.00 2 0.50 7	_	L 159mm H			RAMS,4 SEC	TO CLOSE	
TO MDC		ODC ulled	1 9	Kelly D			0.00m F 1.00m F 2.97m	Remarks:												+						
LOC BRG	Total Run (n			Weight of S	tring	4	0kdaN 1kdaN																			GER LINE HOOK
From To 515m 562m	D-R-C R		Hol			Down		REDUCE			<b>Depth</b>						FUNCTI	IONED UP		RTRAVEL	LIMITS & E-			D DEGASSEF GNITER AND F		,MANUAL CHOKE
313111 30211	DRIEE	30 12KG	11000	e at Bottom on Bottom		3200	0.00Nm Pi	amp No. 1103	@ @	@ @	Бориг	Boiler #	Hours F	Run 12	pH 11	Stack Temp	SAF	ETY	BINO VALVE	Safety				ME	HL	MACP
							L		@	@							PRESS	URE TES	ST/HANDLE B			INECTIONS	_			
TOUR 3	SIC	GNATUR		DRILLE		MBLY		MUD REC	ORD	SYLVAIN A	ARSENAUL	DEVIATI	ON SUI	RVEYS			TIM	E LO	STAR G	T TIM	ME	20:00		ND TIME		24:00
	Size	15	No 9 1E	Compone BIT	ent OE	) ID Le	0.30m	M	0	Water 🗴	0il 🗌	Time Depth 20:30 578.22r	1.4	117.2	Ту	rpe	From 20:00	_	Elapsed Co	_	L 159MM H			in Sequence 72M	& Remarks	
	urer REED Type SK616M		11	MOTOR HS	- 1	9 69	9.35m	[ Funnel Vi	Time Density	20:00 1210		21:30 636.72n 22:00 665.97n 22:30 695.22n	1.7				23:00		0.75 20A 0.25 15	BOP		NIGHT CRE	W ,WELL SE	CURED IN 103	SECS,REVIEV	V KICK WARNING
Seria	l No	A22379	13 1	GAP SUB NON MAG FLEX NON MAG FL		8 69	9.30m 9.27m		id Loss pH	32s/l		23:00 724.47n 23:30 753.72n		144.5			╪			SIGN	N.MANIFOLE	ALIGMEN	II FCI FLAI	KIK		
Depth Out	(m)	7.9	15	CROSSOVER	R SUB 13		0.94m 46.81m	Location of S	Depth	SHAKERS 600m		SOLIDS Equipment	Hours	Intake		Under Flov	w									
Depth In Total Drilled Hrs Run To	(m)	51 25 3.0	7 1	CROSSOVER JARS-HYD/M CROSSOVER	IECH 13	6 62		CIRCULAT		55m3 SPM Pres	sure Hours Run	Name CENTRIFUGE	Run	Density 4 1250	Density 1240	Density 170	00									
Cumulative Hrs		4.0	$\dashv$	14-4"HWDP			0.94m F	ump# Type  1SINGLE  2SINGLE	140	113 14	200 4	MUD MA														
TI TO	(	Gage		Drill Pipe Drill Pipe	Si		0.00m					CALCIUM NIT		t	Amo	30 EAC 4 EAC	н			Ŧ						
MDC LOC	Reason Po			Kelly D Weight o	Total		72.72m	Remarks:				REDUCTION NEWSTABIL				4 EAC	H			+						
BRG METRES	`			Weight of S	tring	4	0kdaN I4kdaN					LIME				3 EAC	Remar							MAN,CAT HEA D DEGASSER		GER LINE HOOK
From To 562m 772m	D-R-C R	8PM W0B 50 12kda	Hol			Down		-	sure Str	okes/min	Depth	Boiler					FUNCTI	IONED UF		RTRAVEL	LIMITS & E-					,MANUAL CHOKE
		+	Fill	on Bottom			0.00m	1 3800	@ @	60 @ @ @	760	Boiler #	Hours F	Run 4	pH 11	Stack Temp 26		RILL		Safety	Topic			ME	HL 44.00kdaN	MACP 3208kPa
V. 1.3			_				_						-				ויייים ו									J_UUNF6

FRONT PAGE SUMMARY License No Well Name	Tour Sheet Serial Number bY52529_20160124_1A Surface Location	Vendor Software Version   Year	Month   Day   DALLY CHECKS   OP RM   1 Dally Walk Found Inspection   MRM MR   MR   MR   MR   MR   MR   MR
31526 ARCRES HZ SUNRISE K2-25-78-18  Operator	02-25-078-18W6	BC DLS 102/08-19-078-17W6/	
ARC RESOURCES Operator's AFE	PRECISION DRILLING, DIV OF PDCLP Contractor's Job No	529 HORIZ Spud Date Time	7) Westally Inspected BDPs - Flare Lines & Degasser Lines MRM MR  1) Rig Site Health & Safety Meeting (one/crew/month)
16DRL0015 Signature of Operator Representative	76 Signature of Contractor's Rig Manager	2016/01/21 19:00 Rig Release Date Time	CadDic Rigidal Control (Control Rigidal Control Rigidal C
Maddison Mike  CODE 1 2 3 4 5 6 7	MARC RAYMOND 8 9 10 11 12	13 14 15 16 17 18	19 20 21 22 23 24 25 Retly Bushing 2000.00
Rig Drill Reaming Coring Cond Mud Trips Rig & Circ Trips Service	Repair Cut Off Dev Wireline Run Csg	Wait On   Nipple Up   Test   Drillstem   Plug   Squeeze	Fishing Dir Safety Tear Waiting Rig Other TOTAL Government On Watch Other TOTAL Government On On Watch Other TOTAL Government On On Other TOTAL Government On Other Control on Other Other Other Control on Other
Tour 1 2.75 0.25 2.75 0.25 Tour 2 9.50 0.25 2.75 0.25 2.75 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.2			1.25   0.75   8.00
Tour 1 2.78 0.25 2.78 0.2  Tour 2 9.50 0.2  Total 15.50 0.25 2.75 1.1			0.25 4.00 4.00 Wind Shength Win Shength Win Shength Sh
TOUR 1 SIGNATURE OF DRILLER	SYLVAIN ARSENAUL	, , , , , , , , , , , , , , , , , , ,	START TIME 00:00 END TIME 08:00
BITS DRILLING ASSEMBLY	MUD RECORD	DEVIATION SURVEYS	TIME LOG
Bit Number   4   No Component   OD   ID   Le	ength Mud Type Water x Oil	Time   Depth   Deviation   Direction   Type	From To Elapsed Code Details of Operations in Sequence & Remarks  00:00 01:00 11:00 DRILL 159MM HOLE FROM 772M TO 823M
IADC Code	8.69m Time 05:30 9.35m Density 1210	00:45 812.18m 5.3 121.6 06:00 841.43m 5.2 115.4	01:00 01:15 0.2520A DIRECTIONAL SURVEYS, CONECTION TIME 01:15 01:30 0.257 RIG SERVICE FCT LOWER PIPE RAM 4 SEC TO CLOSE
	1.71m Funnel Viscosity 32s/l 9.30m Fluid Loss	06:45\870.68m 4.4 109.4 07:30\899.93m 3.3 121.3	01:30 01:45 0.25
Jets 8.7 8.7 8.7 1 NON MAG FLEX 118 69	9.27m pH 0.94m Location of Sample SHAKERS	SOLIDS CONTROL	02:00 03:15 1.25 B TRIP OUT OF HOLE FLOW CHECK 10 MIN ON BOTTOMAND @ @700M, 400, TOOLS, OM TRIP  CAL WAS 4.38 ACTUAL WAS 4.94 DIFF WAS .36 FCT BLIND RAM @ 0M
Depth Out (m) 15-4" HWDP 140 72 4	6.81m Depth 840m 0.96m PVT 56m3	Equipment Hours Intake Over Flow Under Flo Name Run Density Density Density	
Total Drilled (m) 105 1 JARS-HYD/MECH 136 62	5.19m CIRCULATION  0.94m Pump# Type Liner Size SPM Pressure Hours Ru		000 04:00 05:30 1.50 BA TRIP IN HOLE FILL PIPE FLOW CHECK 10 MIN @ 502M,WASH DOWN LAST STAND FLUSH BOTTOM PRIOR TO DRILL
	2.01m 1 SINGLE 140 113 15500 4 2 SINGLE 127 0 15500 0	MUD MATERIALS ADDED	05:30 07:15 1.752 DRILL 159MM HOLE FROM 823M TO 928M  07:15 07:45 0.5020A DIRECTIONAL SURVEYS, CONNECTION TIME
CUTTING STRUCTURE 16 Drill Pipe Stands 42	2.57m 0.00m	Product Amount Type DEFOAMER DSCO 3 EA	07:45 08:00 0.2521 CREW CHANGE MEETING REVIEW WEEKLY FOCUS
TO ODC Kelly Down	0.00m Remarks:	REDUCTION 2 EA	H
LOC Total Run (m/hr) Weight of DC	OkdaN 4kdaN		Remarks: INSPECT FLOOR EQUIPMENT.TONG.BACK UP SLINGS.DEAD MAN,CAT HEAD.ST-80.TUGGER LINE HOOK
METRES DRILLED HOLE CONDITION			INSPECT CATWALK, PIPE RACKS, PIPE RACK PINS/CHAINS, FLARE AND DEGASSER LINES, LOAD LINE, FUNCTIONED UPPER & LOWER TRAVEL LIMITS & E - STOPS, CROWN SAVER, IGNITER AND PASON CHOKE, MANUAL CHOKE
772m 928m DRILL 50 12.5kdaN Torque at Bottom 3300	OONm Pump No. Pressure Strokes/min Depth	Boiler	INSPECT STABBING VALVE/INSIDE BOP
Fill on Bottom	0.00m	Boller # Hours Hull ph Stack Telli	Safety Topic   MEHL   MACP
TOUR 2 SIGNATURE OF DRILLER  BITS DRILLING ASSEMBLY	MUD RECORD	DEVIATION SURVEYS	START TIME 08:00 END TIME 20:00
	mgth Mud Type Water 🗴 Oil26m Other	Time   Depth   Deviation   Direction   Type	From   To Elapsed Code   Details of Operations in Sequence & Remarks
IADC Code 1MOTOR HS 159 0	8.69m Time 08:00 12:0 9.35m Density 1210 120	00 08:45 958.43m 1.1 114.1	17:30   19:30   2.00   20.00   DIRECTIONAL SURVEYS/CONNECTIONS   19:30   19:45   0.257   RIG SERVICE/FUNCTION UPPER PIPE RAMS 5 SECONDS TO CLOSE
Type MM54R 1GAP SUB 121 68	1.71m Funnel Viscosity 32s/l 31s 9.30m Fluid Loss	5/1 10:00 1016.93m	19.45 20.00 0.25 21 SAFETY MEETING/CREW CHANGE
Jets 8.7 8.7 8.7 1 NON MAG FLEX 118 69	9.27m pH	11:45 1075.43m	
Depth Out (m) 15-4" HWDP 140 72 4	6.81m         Depth         939m         1088r           0.96m         PVT         50m3         47m	Equipment Hours Intake Over Flow Under Flo	
	5.19m CIRCULATION  0.94m Pump# Type Liner Size SPM Pressure Hours Ru		550
Cumulative Hrs Run 11.25 144-4"HWDP 140 72 41 Entry Date 2016/01/24	2.01m 1SINGLE 140 100 12000 12 2SINGLE 127 0 12000 0	MUD MATERIALS ADDED	
TI Gage o Drill Pipe Singles	8.25m 0.00m	Product   Amount   Typ.   REDUCTION   4   EA   PREVENTION   1   EA	CH CH
MDC Reason Pulled Total 136	1.00m Remarks: 4.68m	LIME         3 EA           NEWFLOC         1 EA	OH
BRG Weight of String 6	OkdaN 1kdaN	DEFOAMER DSCO 3 EA	Remarks: INSPECT FLOOR EQUIPMENT, TONG, BACK UP SLINGS, DEAD MAN, CAT HEAD, ST-80, TUGGER LINE HOOK
METRES DRILLED			INSPECT CATWALK, PIPE RACKS, PIPE RACK PINS/CHAINS, FLARE AND DEGASSER LINES, LOAD LINE, FUNCTIONED UPPER & LOWER TRAVEL LIMITS & E: STOPS, CROWN SAVER, IGNITER AND PASON CHOKE, MANUAL CHOKE
928m 1364m DRILL 25 9kdaN Torque at Bottom 3500 Fill on Bottom	0.00m Pump No. Pressure Strokes/min Depth 2280 @ 50 @ 88- 1 2450 @ 50 @ 1100	I Bollet #   Hours Rull   DH   Stack Tellij	SAFETY Safety Topic MEHL MACP
	1 2450 @ 50 @ 1100 1 2600 @ 50 @ 1240		DERRICK CONNECTIONS 45.00kdaN 3208kPa
TOUR 3 SIGNATURE OF DRILLER	SYLVAIN ARSENAUL		START TIME 20:00 END TIME 24:00
DRILLING ASSEMBLY	mud RECORD  Mud Type Water x 0il	DEVIATION SURVEYS Time   Depth   Deviation   Direction   Type	TIME LOG From To Elapsed Code Details of Operations in Sequence & Remarks
Size	.26m Other	20:00 1367.93m 0.9 14.5 21:15 1397.18m 0.6 320.9	20:00 23:15 3:25 DRILL 159MM FROM 1364M TO 1480M 23:15 23:30 0:25 20A DIRECTIONAL SURVEYS CONNECTION TME
Manufacturer	9.35m Density 1240 1.71m Funnel Viscosity 32s/l	22:00 1426.43m 0.5 327.4 23:00 1455.68m 0.8 214.4	23:30 24:00 0.507 RIG SERVICE FCT UPPER PIPE RAM 4 SEC TO CLOSE
Serial No	9.30m Fluid Loss 9.27m pH		
8.7 1CROSSOVER SUB 134 61	0.94m	SOLIDS CONTROL  Equipment Hours Intake Over Flow Under Flo	
Depth In (m) 823 1cROSSOVER SUB 134 75 Total Drilled (m) 657 1µARS-HYD/MECH 136 62	0.96m PVT 5.19m CIRCULATION	Name Run Density Density Density	00
Hrs Run Today 3.25 1CROSSOVER SUB 134 68	0.94m Pump# Type Liner Size SPM Pressure Hours Ru 12.01m 1SINGLE 140 78 9400		
Entry Date 2016/01/24	2SINGLE 127 0 9400 (	MUD MATERIALS ADDED Product Amount Type	1
TI Gage d Drill Pipe Singles	0.00m		
MDC Reason Pulled Total 14	30.68m OkdaN		
	okdan i2kdaN		Remarks: INSPECT FLOOR EQUIPMENT, TONG, BACK UP SLINGS, DEAD MAN, CAT HEAD, ST-80, TUGGER LINE HOOK INSPECT CATWALK, PIPE RACKS, PIPE RACK PINS/CHAINS, FLARE AND DEGASSER LINES, LOAD LINE,
From To D-R-C RPM WOB Hole Drag Up 1 Down	REDUCED PUMP SPEED  OONING Pump No. Pressure Strokes/min Depth	D. 11	FUNCTIONED UPPER & LOWER TRAVEL LIMITS & E- STOPS, CROWN SAVER, IGNITER AND PASON CHOKE, MANUAL CHOKE INSPECT STABBING VALVE/INSIDE BOP
Fill on Bottom	0.00m 1 2850 @ 50 @ 1470 @ @	Boiler # Hours Hun ph Stack Tem	SAFETY
	@ @		STICK CONNECTION 63.00kdaN 3005kPa

FRONT PAGE SUMMARY License No Well Name	Tour Sheet Serial Number 0Y52529_20160125_1A Surface Location	Vendor Software Version	Month Day 01 25 DAILY CHECKS OP RIM 25 DETAILS VICINITY OF RIM MEM MR. 21 DETAILS VICINITY OF RIM MEM MEM MEM MEM MEM MEM MEM MEM MEM M
31526 ARCRES HZ SUNRISE K2-25-78-18  Operator	02-25-078-18W6 Contractor	BC DLS 102/08-19-078-17W6/0	Re-Entry 5) Flare Lines Staked 6) BOP Drills Performed MRM MR
ARC RESOURCES  Operator's AFE 16DRL0015	PRECISION DRILLING, DIV OF PDCLP Contractor's Job No	529 HORIZ  Spud Date Time 2016/01/21 19:00	7) Visually Inspected BOPs - Flare Lines & Degasser Lines MrRM_MR.  1) Rig Site Health & Safety Meeting (one/crew/month) 2) CADOC Rig Safety Inspection Checklist (one/rig/month)
Signature of Operator Representative Maddison Mike	Signature of Contractor's Rig Manager MARC RAYMOND	Rig Release Date Time	3) Mast Inspection before Raising or Lowering 4) Crown Saver Checked 5) Motor Kills Checked Pason
CODE 1 2 3 4 5 6 7	8         9         10         11         12           Repair         Cut Off         Dev         Wireline         Run Csg	13         14         15         16         17         18           Wait On Nipple Up         Test         Drillstem         Plug         Squeeze	19 20 21 22 23 24 25   Gallery   General Walting   Rig   Chiese   Gallery   General Walting   Rig   Chiese   Gallery   Gallery
Up Actual Realiting Coring & Circ Imps Service	e Rig Drilg Line Survey Logs & Cement 25	Cement BOP BOP Test Back Cement	1   1   1   1   1   1   1   1   1   1
Tour 1   5.50   0.50   3.25   0.50   0.50   3.25   0.50			2.00 0.50   12.00   CLEAR   Wind Strength   A.00   CLEAR   Wind Strength   A.00   CLEAR   A.00   A.0
TOUR 1 SIGNATURE OF DRILLER	SYLVAIN ARSENAUL	T	START TIME 00:00 END TIME 08:00
BITS DRILLING ASSEMBLY		DEVIATION SURVEYS	TIME LOG
Bit Number   4	Mud Type   Water   x   Oil	Time   Depth   Deviation   Direction   Type   O0:15 1484.93m   O.7   192   O1:30 1514.18m   O.6   176.1	From   To   Elapsed   Code   Details of Operations in Sequence & Remarks
Manufacturer	9.35m Density 1240 1250 1.71m Funnel Viscosity 28s/l 28s.	03:00 1543.43m	07:30   07:30   2:00 19   DIRECTIONAL SOLVEYS CONNECTION TIME     07:30   07:45   0.257   RIG SERVICE FCT ANNULAR 19 SEC TO CLOSE   07:45   08:00   0.2521   OREW CHANGE MEETING
Serial No	9.30m Fluid Loss 9.27m PH	07:45 1601.93m 0.8 72.2	
1   1   1   1   1   1   1   1   1   1	0.94m         Location of Sample         SHAKERS         SHAKERS           46.81m         Depth         1500m         1575n	SOLIDS CONTROL  Equipment Hours Intake Over Flow Under Flow  Description  Operation  Description	
Depth In (m)   823   1 CROSSOVER SUB   134   75	0.96m         PVT         48m3         48m3           5.19m         CIRCULATION           0.94m         Pump#         Type         Liner Size         SPM         Pressure         Hours Ru		TY 1700
	12.01m 1 SINGLE 140 78 9800 (2 2 SINGLE 127 0 9800 (4	MUD MATERIALS ADDED	
TI Gage o Drill Pipe Singles	99.57m 0.00m	Product         Amount         Type           REDUCTION         7         EAC           NEWSTABIL         1         EAC	ACH
	0.00m Remarks: 05.00m	LIME         3 EAC           CALCIUM NITRATE         35 EAC	ACH ACH
LOC Total Run (m/hr) Weight of DC Weight of String  METRES DRILLED HOLE CONDITION	0kdaN 51kdaN	PREVENTION 1 EAC	ACH  Remarks: INSPECT FLOOR EQUIPMENT, TONG, BACK UP SLINGS, DEAD MAN, CAT HEAD, ST-80, TUGGER LINE HOOK INSPECT CATWALK, PIPE RACKS, PIPE RACK PINS; CHAINS, FLARE AND DEGASSER LINES, LOAD LINE,
From To D-R-C RPM WOB Hole Drag Up 2 Down	REDUCED PUMP SPEED  DO DONNM Pump No. Pressure Strokes/min Depth	Boiler	FUNCTIONED UPPER & LOWER TRAVEL LIMITS & E- STOPS, CROWN SAVER, IGNITER AND PASON CHOKE, MANUAL CHOKE INSPECT STABBING VALVE/INSIDE BOP
Fill on Bottom	0.00m 1 2850 @ 50 @ 1480 @ @	Boiler # Hours Run pH Stack Temp	280 Safety Topic MEHL MACP
			BOILERS 64.00kdaN 3005kPa
TOUR 2 SIGNATURE OF DRILLER  BITS DRILLING ASSEMBLY	MUD RECORD	DEVIATION SURVEYS	START TIME 08:00 END TIME 20:00 TIME LOG
Bit Number   5   No   Component   OD   ID   I	ength Mud Type Water 🗷 Oil 🗌 .26m Other	Time         Depth         Deviation         Direction         Type           11:45         1631.15m         1.3         70.6	From         To         Elapsed         Code         Details of Operations in Sequence & Remarks           08:00         13:30         5.50         2         DRILL 159mm FROM 1605M TO 1644M
IADC Code	8.66m         Time         08:00         12:0           9.35m         Density         1250         125           1.71m         Funnel Viscosity         30s/l         30s/l	<u> </u>	13:30   14:30   0.50 20A   DIRECTIONAL SURVEYS/CONNECTIONS   14:30   14:30   0.50   CIRCULATE BOTTOMS UP TO TRIP WITH 10 MIN FLOW CHECK @ 1643M,1499M,827M.
Type   MM54R   1GAP SUB   121   68	1.71m Funnel Viscosity 30s/l 30s 9.30m Fluid Loss 9.27m PH	-	14:30   17:45   3.25   TRIPS OUT FROM 1943M WITH 10 MIN FLOW CHECKS@ 1943M.199M.827M, @TOOLS.@OM TRIP CALV VOL=7.54m3 ACT.=10.40m3 DIFF VOL=2.86m3   17:45   18:00   0.25   1   SAFETY MEETING WITH DIRECTIONAL PRIOR TO HANDLING BHA/FLOW CHECK
8.7 1CROSSOVER SUB 134 61	0.94m         Location of Sample         SHAKERS         SHAKERS           46.81m         Depth         1605m         1632r	SOLIDS CONTROL  Equipment Hours Intake Over Flow Under Flow	18:00 19:30 1.50 20D HANDLE DIRECTIONAL TOOLS/FUNCTION BLIND RAMS OUT OF HOLE
Depth In (m)   1644   1CROSSOVER SUB   134   75	0.96m PVT 47m3 47m 5.19m CIRCULATION	Name Run Density Density Density Density CENTRIFUGE 12 1250 1240 168	
Hrs Run Today		MUD MATERIALS ADDED	
CUTTING STRUCTURE   38   Drill Pipe   Stands 10	2SINGLE 127 0 7800 0	Product         Amount         Type           LIME         3         EAC	ACH CONTRACTOR OF THE CONTRACT
	0.00m Remarks: 04.97m	REDUCTION   2   EAC   WALNUT MEDIUM   1   EAC   CALCIUM NITRATE   1   EAC   EAC	ACH
	0kdaN S1kdaN		Remarks: INSPECT FLOOR EQUIPMENT,TONG,BACK UP SLINGS,DEAD MAN,CAT HEAD,ST-80,TUGGER LINE HOOK
From To D-R-C RPM WOB Hole Drag Up 2 Down	REDUCED PUMP SPEED  DO OON PUMP NO. Pressure Strokes/min Depth		INSPECT CATWALK.PIPE RACKS,PIPE RACK PINS/CHAINS,FLARE AND DEGASSER LINES,LOAD LINE, FUNCTIONED UPPER & LOWER TRAVEL LIMITS & E - STOPS,CROWN SAVER,IGNITER AND PASON CHOKE,MANUAL CHOKE INSPECT STABBING VALVE/INSIDE BOP
Fill on Bottom	0.00m 1 2900 @ 50 @ 1638 @ @	Boller # Hours Rull pr Stack Tellip	mp SAFETY Safety Topic MEHL MACP
			ENVIRONMENTAL ALERT 65.00kdaN 3006kPa
TOUR 3 SIGNATURE OF DRILLER  BITS DRILLING ASSEMBLY	SYLVAIN ARSENAUL  MUD RECORD	DEVIATION SURVEYS	START TIME 20:00 END TIME 24:00 TIME LOG
Bit Number   5	ength Mud Type Water x 0il Other	Time         Depth         Deviation         Direction         Type           22:45         1660.4m         1.6         85	From To Elapsed Code Details of Operations in Sequence & Remarks 20:00 21:15 1.25 BA TRIP IN HOLE FROM 950M TO 1644 FILL PIPE @1300M WASH DOWN LAST STAND TO
IADC Code	8.66m Time 23:00 9.35m Density 1250		21:15 23:30 2.25 2 DRILL 159MM HOLE FROM 1644M TO 1674m
Type   MM54R   1GAP SUB   121   68	1.71m   Funnel Viscosity   30s/l     9.30m   Fluid Loss   9.27m   pH	-	23.30   23.45   0.25   0.01   0.25
September   Sept	0.94m Location of Sample shakers 46.81m Depth	SOLIDS CONTROL  Equipment Hours Intake Over Flow Under Flow	low low
Depth In (m)   1644   1CROSSOVER SUB   134   75	0.96m PVT 5.19m CIRCULATION	Name Run Density Density Density centrifuge 4 1240 1240 190	ty 1900
Hrs Run Today 2.25 1CROSSOVER SUB 134 68  Cumulative Hrs Run 2.25 144-4"HWDP 140 72 4  Entry Date 2016/01/25	0.94m Pump# Type Liner Size SPM Pressure Hours Ru 12.01m 1SINGLE 140 70 7600 3 2SINGLE 127 0 7600 0	MUD MATERIALS ADDED	
	70.00m	Product Amount Type REDUCTION 2 EAC	
	-1.40m Remarks: 74.00m		
	0kdaN 67kdaN	]	Remarks: INSPECT FLOOR EQUIPMENT, TONG, BACK UP SLINGS, DEAD MAN, CAT HEAD, ST-80, TUGGER LINE HOOK INSPECT CATWALK, PIPE RACKS, PIPE RACK PINS/CHAINS, FLARE AND DEGASSER LINES, LOAD LINE,
From To D-R-C RPM WOB Hole Drag Up 2 Down	REDUCED PUMP SPEED		INSPECT CATWALK, PIPE NACKS, PIPE NACK PINISCHAINS, FLARE AND DEGASSER LINES, LOAD LINE, FUNCTIONED UPPER & LOWER TRAVEL LIMITS & E - STOPS, CROWN SAVER, IGNITER AND PASON CHOKE, MANUAL CHOKE INSPECT STABBING VALVE/INSDIE BOP
Fill on Bottom	0.00m 1 6500 @ 70 @ 1644 @ @	Boiler # Hours Run pH Stack Temp	
V. 1.3	@   @		TRIP HOLE 70.00kdaN 3005kPa

License No We	FRO	NT PAGE S	UMMAI	RY			0Y525	Sheet Serial 29_2016012 ce Location	26_1D	Vendo Pason	or Software Ve	ersion Loc Type	Unique Wel	2016	Month D 01	26 1)	DAILY CI Daily Walk Aron Detailed Insper H2S Signs Pos	und Inspect ction - Wee	tion kly (Using Che	eck List)	MRM DA	6	AOI	
Operator ARC RESOURCES Operator's AFE 16DRL0015	CRES HZ SUNRISE K	2-25-78-18			Contrac 76	SION DRILLING ctor's Job No	G, DIV OF I			Rig 529	No	DLS Well Type HORIZ Spud Date 2016/01/21	Гіте 19:00	078-17W6/00		Entry   5) 6) 7)	Well Licence & Flare Lines Sta BOP Drills Perf Visually Inspecto Rig Site Health CAODC Rig Sat	aked formed ed BOPs - F a & Safety M fety Inspect	lare Lines & De Meeting (one/o tion Checklist	egasser Lines crew/month) (one/rig/mon	DA	pa	sor	5
Signature of Operate Maddison Mike		4 5		-		re of Contract			40	40		Rig Release		40	40	5)	) Mast Inspectio ) Crown Saver C ) Motor Kills Che	checked ecked			DA	Kelly	Pason Bushing 5.90	Op Fuel 2500.00
Rig Up Tour 1 Tour 2	2 3   Drill   Reaming   6.75   4.75	Coring Cond & C	Mud Trip:	S Rig Service 0.2	Repare Rig	air Cut Off g Drilg Line	e Survey	11 Wireline Logs	12 Run Csg & Cement	Wait On Nipp	le Up Test OP BOP	Drillster	m Plug Back	Squeeze Cement	19 Fishing	Dir Work 0.7	5 0.50	Tear Down	Waiting On	Rig Watch	25 Other 1	FL 8.00 Ff 12.00	16500.00 Time 06:0 Current Conditions CLEAR Wind Direction	DO HOURS   Boiler
Total	1.00		_	.00 0.2 i.00 0.7	_	0.5	_									2.5	0.25					24.00	N Road Condition FAIR	CALM
TOUR 1	SIGNATU	RE OF DRII		EMBLY		MUD DE		SYLVAIN A	ARSENAUL1	DE1//14	1011 0110	WEW.			I	<b>510</b>	STAR	т тім	E	00:00	EN	ID TIME	00	8:00
BITS  Bit Number  Size  IADC Code		No Com  159 1 BIT  1 MOTOR	ponent (	DD ID Le		MUD RE	Mud Type	Water x ther	Oil 🗌	DEVIAT Time Depth 01:30 1689.65 04:00 1718.9	Deviation m 2.5		Ту	ре	From 00:00 06:45	06:45	Elapsed Co 6.752 0.7520A	DRILL		OLE FROM	Operations 1674M TO 1		Remarks	
	HALLIBURTON MM54R	1 NON MA 1 GAP SU	G MONEL :	119 69 121 68	9.35m 1.71m 9.30m		Density Viscosity Iuid Loss	1255		05:15 1748.15 06:30 1777.4		312.1 356			07:30	07:45 08:00	0.257 0.2521	RIG S		CT ANNULA	AR 20 SEC TO			
Jets Depth Out (m	8.7	8.7 1 NON MAG MONEI 1 CROSSO 15-4" HW	OVER SUB	134 61 140 72 4	9.27m 0.94m 6.81m	Location of	Depth	SHAKERS 1755m		Equipmen		Intake		Under Flow										
Depth In (m Total Drilled (m Hrs Run Today Cumulative Hrs Rur	,		YD/MECH :	136 62 134 68	0.96m 5.19m 0.94m 2.01m	CIRCUL/ Pump# Type	Liner Size		ssure Hours Rur	Name CENTRIFUGI	Run E	Density 1255	Density 1250	Density 1600										
	2016/01/25	45 Drill Pip	De .	Stands 129	0.60m 0.00m	1 SINGL 2 SINGL	_		7000 8	REDUCTION	ATERIAL Product			unt Type 4 BOXES										
	ODC Reason Pulled otal Run (m/hr)	Ke	Total ght of DC	179	0.00m 6.00m 0kdaN	Remarks:				PREVENTION NEWSTABIL LIME CALCIUM NIT				1 BBI 1 BBI 3 EACH 32 EACH										
BRG	PILLED D-R-C RPM WO	HOLE C				REDUCE									FUNCTION	ONED UP	ALK,PIPE RA	CKS,PIPE	E RACK PIN	NS/CHAINS	FLARE AND	IAN,CAT HEAD, DEGASSER L GNITER AND PAS	NES,LOAD LI	NE,
1674m 1796m	DRILL 10 6k	Torque at Botto			.00Nm 0.00m	Pump No. Pre	essure Str	okes/min @ @ @ @	Depth	Boiler Boiler #	Hours R	un 8	pH :	Stack Temp 280	SAF	ETY	BING VALVE/	Safety T				MEHL 71	00kdaN	MACP 3006kPa
TOUR 2	SIGNATU	RE OF DRII	LLER						N STEWART						LADDE	K USE SI	STAR	т тім	E	08:00	EN	ID TIME		:0:00
BITS Bit Number Size		DRILLIN   No   Com   159   1BIT	ponent (	DD ID Le		MUD RE	Mud Type	Water ×	Oil 🗌	08:45 1806.64	Deviation 1.5	Direction 257	Ту	ре	From 08:00	_	Elapsed Cod 4.00 2	$\overline{}$	. 159mm FR			in Sequence &	Remarks	
Туре	HALLIBURTON MM54R	1GAP SU	G MONEL B	119 69 121 68	8.66m 9.35m 1.71m		Time Density Viscosity	08:00 1250 30s/l	12:00 1250 30s/	11:45 1835.9	n 1	262.1			12:00		0.25 20A 0.25 21A	SOUR PACKE UP AN	BOP DRILL/ ( D ID READY 1	TO RESCUE	E IN 1:24. WE	UIND MUSTER A		
Serial No Jets Depth Out (m	8.7 8.7 8.7	8.7 1 NON MAC MONEL	G FLEX .	118 69 134 61	9.30m 9.27m 0.94m 6.81m	Location of	f Sample :	SHAKERS 1796m	SHAKERS 1841n		CONTR	_	0 5		12:30 13:15 14:00 14:45	14:00 14:45	0.75 2 0.75 20A 0.75 5 3.25 6B	DIREC	CTIONAL SI JLATE BOT	URVEYS/C				
Depth In (m Total Drilled (m Hrs Run Toda)	1	857 1CROSSC 1JARS-HY	OVER SUB	134 75 136 62	0.96m 5.19m	CIRCUL/	PVT ATION	43m3	41m3	Equipmen Name CENTRIFUGE	Run	Intake Density 1250	Over Flow Density 1240	Density		18:15	0.2521	1839N 2.38m	1,1723M,935 3 FUNCTIO	5M,527M, 81 ON BLIND R	IM,0M CAL V	OL=8.39m3 AC0	VOL.=10.77m	n3 DIFF VOL.=
Cumulative Hrs Rur Entry Date	2016/01/26	0.00 144-4"HW		140 72 41		1SINGL 2SINGL			3000 12 3000 0	MUD M	ATERIAL Product			unt Type	18:15 19:00 19:15	19:15	0.75 20D 0.25 7 0.75 6A	RIG S		JNCTION U		SE BIT RAMS 4 SECO	IDS TO CLOS	šE
TI TO	Gage ODC	o Drill Pip	elly Down	Singles	0.00m 0.00m	Remarks:				LIME REDUCTION CALCIUM NI				3 EACH 2 EACH 5 EACH		20:00	U.75 BA	IRIPI	IN HOLE FI	LL PIPE ®	504M			
	Reason Pulled otal Run (m/hr)		Total ght of DC of String	6	6.00m 0kdaN 7kdaN																	IAN,CAT HEAD,S		
From To D	DRILL 20 5k	B Hole Drag	Up 2	Down			essure Str	okes/min	Depth	Boiler					FUNCTION	ONED UPI		TRAVEL	LIMITS & E- S			SNITER AND PAS		
		Fill on Botto	om		0.00m	1 380	00 @ @ @	55 @ @ @	1830	Boller #	Hours R	un 6	pH \$	Stack Temp 210	SAF	ETY		Safety T	Topic			MEHL		MACP
TOUR 3	SIGNATU	RE OF DRII	LLER					SYLVAIN A	ARSENAUL'								STAR	т тім	E	20:00	EN	ID TIME	2	4:00
BITS  Bit Number		DRILLIN   No   Com    159   1BIT	ponent (	3M3Y DD ID Le		MUD RE	Mud Type	Water ×	Oil	Time Depth 23:30 1865.15	Deviation		Ту	ре	From 20:00	To 22:00	Elapsed Cod 2.00 6A	_			•	in Sequence &		10501
IADC Code Manufacture	r HALLIBURTON	1MOTOR 1NON MA	HS G MONEL	127 0 119 69	8.66m 9.35m		Time Density	23:30 1250							22:00 22:15	22:15 22:45	0.25 21 0.50 9A	SAFE'	TY MEETIN	IG ON SLIP	AND CUT D			
Type Serial No Jets		1 GAP SU 495 1 NON MAG MONEL 8.7 1 NON MA MONEL	FLEX .	121 68 118 69 118 69	1.71m 9.30m 9.27m	F	Viscosity Iuid Loss pH								22:45 23:45	23:45 24:00	1.00 2 0.25 7	_	. 159mm HC		1857M TO 1	877M RAMS 4 SECO	NDS TO CLOS	SE
Depth Out (m	) 1	15-4" HW 857 1CROSSO	DP -	134 75	0.94m 46.81m 0.96m	Location o	Depth PVT	SHAKERS 1868m		Equipmen Name	Run	Intake Density	Density	Under Flow Density										
Total Drilled (m Hrs Run Toda) Cumulative Hrs Run	1	$\neg$	OVER SUB	136 62 134 68 140 72 4	5.19m 0.94m 12.01m	Pump# Type	Liner Size	80 4	ssure Hours Rur	CENTRIFUGE	ATERIAL	1 1250	1245	1700										
CUTTING ST	Gage	47 Drill Pip o Drill Pip	e :		0.00m	2	127	0 4	4000 0		Product	S ADD		unt Type										
LOC To	ODC Reason Pulled otal Run (m/hr)	Wei	Total ght of DC	18	-3.00m 77.15m 0kdaN	Remarks:									-	10. 10.0	EOT 51 COS	OLUB- II	UT TONG	ACK UE **	NOC DE LE	IANI CATUTA	T 90 TUC 25	LINEUGO
	O-R-C RPM WO	HOLE C Hole Drag	Up 2	Down		REDUCE									INSPEC	ONED UP	ALK,PIPE RA	CKS,PIPE	E RACK PIN	NS/CHAINS	FLARE AND	IAN,CAT HEAD,S DEGASSER L SNITER AND PAS	NES,LOAD LI	NE,
1857m 1877m	DRILL 25 11k	Torque at Botto		4500	0.00Nm -	Pump No. Pre	essure Str @ @	okes/min @ @ @ @ @	Depth	Boiler Boiler#	Hours R	un 4	pH \$	Stack Temp 280	SAF	ETY	BING VALVE/	Safety T				MEHL		MACP
V. 1.3					L		W	w		J[	1				SLIP AN	ND CUT						67.	00kdaN	3006kPa

FRONT PAGE SUMMARY License No Well Name	Tour Sheet Serial Number 0Y52529_20160127_1B Surface Location	Vendor Software Version	Month Day 01 27 1) Dally VeltECKS OP RM 1) Daily Walk Around Inspection 2; Detailed Inspection - Weekly (Using Check List) 3; HZS Signs Posted if Required Check List)
31526 ARCRES HZ SUNRISE K2-25-78-18  Operator  ARC RESOURCES	02-25-078-18W6 Contractor PRECISION DRILLING, DIV OF PDCLP	BC   DLS   102/08-19-078-17V   Rig No   Well Type   HORIZ	Re-Entry 5   Flare Lines Staked 6   BOP Drills Performed 7   Visually Inspected BOPs - Flare Lines & Degasser Lines MRM   DA
Operator's AFE 16DRL0015 Signature of Operator Representative	Contractor's Job No 76 Signature of Contractor's Rig Manager	Spud Date Time 2016/01/21 19:00 Rig Release Date Time	1) Rig Site Health & Safety Meeting (one/crew/month) 2) CAODC Rig Safety Inspection Checklist (one/rig/month) 3) Mast Inspection before Raising or Lowering 4) Crown Saver Checked  Pason
Maddison Mike  CODE 1 2 3 4 5 6 7	8 9 10 11 12	13 14 15 16 17 18	5) Motor Kills Checked  19 20 21 22 23 24 25   Garbauting   Spool   Garbauting   Garbauti
Rig Drill Up Actual Reaming Coring Cond Mud & Circ Trips Service  7 Tour 1 6.50 50 0.2	5		zez Fishing Dir Safety Tear Warth Work Meeting Down On Watch Other TOTAL  1.25 8.00 6 7 100 0.00 6
Tour 1 6.50 0.2 Tour 2 10.50 0.2 Tour 3 3.25 Total 20.25 0.7	5		1.00   0.25   12.00
TOUR 1 SIGNATURE OF DRILLER	SYLVAIN ARSENAUL	Т	START TIME 00:00 END TIME 08:00
DRILLING ASSEMBLY		DEVIATION SURVEYS Time Depth Deviation Direction Type	TIME LOG From To Elapsed Code Details of Operations in Sequence & Remarks
	.26m Other  8.66m Time 01:00  9.35m Density 1280	01:30   894.4m	00:00         6:30         0 6:45         0 6:101. 159MM FROM 1877M TO 1994M           06:30         07:45         1.25 0A         DIRECTIONAL SURVEYS CONNECTION TIME           07:40         08:00         0.25f         RIG SERVICE FOT ANNULAR 19 SEC TO CLOSE
Type MM54R 1 1 GAP SUB 121 68 Serial No 12620495 NON MAG FLEX 118 69	1.71m Funnel Viscosity 9.30m Fluid Loss	07:45 1982.15m	07-45 05:00 0.20 NIG SERVICE FOI ANNULAR 19 SEC TO CLOSE
8.7 1 CROSSOVER SUB 134 61	9.27m	SOLIDS CONTROL  Equipment Hours Intake Over Flow Under	Sinux
Depth In (m)   1857   1 CROSSOVER SUB   134   75	0.96m PVT 42m3 5.19m CIRCULATION	Name Run Density Density Dens CENTRIFUGE 8 1280 1275	
	2.01m   Pump# Type Liner Size SPM Pressure Hours Rur   2.01m   1 SINGLE   140   85   10500   4   2 SINGLE   127   120   10500   4	MUD MATERIALS ADDED	
TI Gage o Drill Pipe Singles	8.60m 0.00m	CALCIUM NITRATE 36	ACH
MDC         Reason Pulled         Total         198           LOC         Total Run (m/hr)         Weight of DC         0	0.00m   Remarks: 4.00m   OkdaN		ACH
METRES DRILLED   Weight of String   7'	REDUCED PUMP SPEED		Remarks: INSPECT FLOOR EQUIPMENT,TONG,BACK UP SLINGS,DEAD MAN,CAT HEAD,ST-80,TUGGER LINE HOOK INSPECT CATWALK,PIPE RACKS,PIPE RACK PINS/CHAINS,FLARE AND DEGASSER LINES,LOAD LINE, FUNCTIONED UPPER & LOWER TRAVEL LIMITS & E-STOPS,CROWN SAVER,IGNITER AND PASON CHOKE MANUAL CHOKE
1877m 1984m DRILL 25 8kdaN Torque at Bottom 4500.	Pump No.         Pressure         Strokes/min         Depth           0.00m         2         3800         @         60         @         1930		INSPECT STABBING VALVE/INSIDE BOP SAFETY
		396 8 10.5	Safety Topic   MEHL   MACP
TOUR 2 SIGNATURE OF DRILLER BITS DRILLING ASSEMBLY	DUNCAN STEWAR	DEVIATION SURVEYS	START TIME 08:00 END TIME 20:00 TIME LOG
Bit Number 6   No Component   OD   ID   Le		Time   Depth   Deviation   Direction   Type	From   To Elapsed Code   Details of Operations in Sequence & Remarks
Manufacturer HALLIBURTON 1NON MAG MONEL 119 69 9	8.66m Time 08:00 13:00 9.35m Density 1280 1280 1.71m Funnel Viscosity 30s/l 30s/s	0 17:15 2069.9m 0.5 85.5 18:00 2079.65m 0.7 81.3	18:30   19:30   1.00   DIRECTIONAL SURVEYS/CONNECTIONS   19:30   19:45   0.25   RIG SERVICE-FUNCTION UPPER PIPE RAMS 4 SECONDS TO CLOSE   19:45   20:00   0.25   1   SAFETY MEETING/CREW CHANGE
Serial No	9.30m Fluid Loss 9.27m PH	19:45 2089.4m 1.6 98.2	1970 2000 UZUKI ONI ETI MEETINGOREIT ONINGE
Depth Out (m) 15-4" HWDP 140 72 46	D.94m         Location of Sample         SHAKERS         SHAKERS           5.81m         Depth         1983m         2020n           0.96m         PVT         35m3         34m:	Equipment Hours Intake Over Flow Under	
	5.19m CIRCULATION  D.94m Pump# Type Liner Size SPM Pressure Hours Run		1650
Entry Date   2016/01/26	2.01m 1SINGLE 140 85 14500 12 2SINGLE 127 0 14500 0	MUD MATERIALS ADDED Product Amount T	/PE ACH
TO ODC Kelly Down	7.00m	NEWSTABIL   1	ACU
LOC         Total Run (m/hr)         Weight of DC           BRG         Weight of String         7:	OkdaN 7kdaN		Remarks: INSPECT FLOOR EQUIPMENT, TONG, BACK UP SLINGS, DEAD MAN, CAT HEAD, ST-80, TUGGER LINE HOOK.
METRES DRILLED	REDUCED PUMP SPEED	Boiler	INSPECT CATWALK PIPE RACKS, PIPE RACK PINS/CHAINS, FLARE AND DEGASSER LINES, LOAD LINE, FUNCTIONED UPPER A LOWER TRAVEL LIMITS & E-STOPS, CROWN SAVER, IGNITER AND PASON CHOKE, MANUAL CHOKE INSPECT STABBING VALVE/INSIDE BOP
Fill on Bottom	0.00m 1 3658 @ 50 @ 2083	3 Boiler # Hours Run pH Stack Te 396 12 11	### SAFETY  260  Safety Topic MEHL MACP  WORKING WITH STEAM 67.00kdaN 2850kPa
TOUR 3 SIGNATURE OF DRILLER	SYLVAIN ARSENAUL		START TIME 20:00 END TIME 24:00
DRILLING ASSEMBLY	mgth Mud RECORD  Mud Type Water x 0il	DEVIATION SURVEYS   Time   Depth   Deviation   Direction   Type	TIME LOG From To Elapsed Code Details of Operations in Sequence & Remarks
Size	.26m Other	21:15 2099.15m 3.5 119	20:00 23:15 3:25 DRILL 159mm HOLE FROM 2091M TO 2115 23:15 23:45 0.50 20A DIRECTIONAL SURVEYS/CONNECTIONS
Type MM54R 1GAP SUB 121 68 Serial No 12620495 MON MAG FLEX 118 69	9.35m Density 1285 1.71m Funnel Viscosity 30s/l 9.30m Fluid Loss		23.45 24.00 0.257 RIG SERVICE/FUNCTION LOWER PIPE RAMS 4 SECONDS TO CLOSE
8.7 1CROSSOVER SUB 134 61	9.27m pH	SOLIDS CONTROL	
Depth In (m)   1857   1CROSSOVER SUB   134   75     Total Drilled (m)   258   1JARS-HYD/MECH   136   62	0.96m PVT 5.19m CIRCULATION		
	0.94m         Pump#         Type         Liner Size         SPM         Pressure         Hours Rur           2.01m         1 SINGLE         140         100         14333         4           2SINGLE         114         0         14333         0	MUD MATERIALS ADDED	
TI Gage d Drill Pipe Singles	18.75m 0.00m 1.00m Remarks:	Product Amount T POTASH 2 1	PPE CACH
MDC         Reason Pulled         Total         211           LOC         Total Run (m/hr)         Weight of DC	1.00m Remarks: 5.15m 0kdaN		
BRG   Weight of String   7   METRES DRILLED   HOLE CONDITION	7kdaN REDUCED PUMP SPEED		Remarks: INSPECT FLOOR EQUIPMENT,TONG,BACK UP SLINGS,DEAD MAN CAT HEAD,ST-80,TUGGER LINE HOOK INSPECT CATWALK,PIPE RACKS,PIPE RACK PINS/CHAINS,FLARE AND DEGASSER LINES,LOAD LINE, FUNCTIONED UPPER & LOWER TRAVEL LIMITS & E - STOPS,CROWN SAVER,IGNITER AND PASON CHOKE MANUAL CHOKE
2091m 2115m DRILL 10 14kdaN Torque at Bottom 4500	.00Nm Pump No. Pressure Strokes/min Depth 0.00m 1 3670 @ 50 @ 2111		INSPECT STABBING VALVE/INSIDE BOP SAFETY
V.1.3		396 4 11	25         Safety Topic         MEHL         MACP           25         DERRICK CONNECTIONS         76.00kdaN         2850kPa           1 of 5         1         1

License No	) Wel	Name	FRONT	PAG	E SUN	MARY	,		0Y525	Sheet Seria 29_2016012 ce Location	28_1B	Vendor S Pason	Software V	ersion Loc Type	Unique	Year 2016 Well Id	Mon 6 01		28 1)	Daily Walk Aro Detailed Inspe H2S Signs Pos	und Inspect ction - Wee	tion kly (Using Ch	heck List)	PB DA		CAG	bDC)
31526 Operator	S ARCI	RES HZ SUN	RISE K2-2	5-78-18				tractor		078-18W6		Rig No	BC	DLS Well Type HORIZ		19-078-17	7W6/00	Re-E	ntry 6)	Well Licence & Flare Lines Sta BOP Drills Perl Visually Inspect	Stick Diag ked ormed	ram Posted	Janzeear Linas	PB DA			
ARC RESO Operator's 6DRL0015	AFE							tractor's Job		POCLP		529		Spud Date 2016/01/21	19:00				1)	Rig Site Health CAODC Rig Sa	& Safety N fety Inspect	Meeting (one/	/crew/month) st (one/rig/mo	DA	F	asc	on )
aul Boutilie	er	Representa					DAV	E ACHESO						Rig Releas					4) 5)	Mast Inspectio Crown Saver O Motor Kills Che	hecked ecked		_	DA		Pa Kelly Bushing 5.90	9 Fuel 3500.00
CODE	Rig	Drill Actual	3 teaming	4 Coring	5 Cond Mud & Circ	6 Trips		tepair Cu	9 10 ut Off Dev g Line Survey	Wireline Logs	Run Csg & Cement	Wait On Cement BOF	Up Test	t Drillst	em Plu	Sque	eeze Eig	<b>9</b> hing	Dir Work	Safety Meeting	Tear Down	Waiting On	Rig Watch	<b>25</b> Other	TOTAL	FUEL @	08:00 HOURS
Tour 1 Tour 2	ОР	6.50 10.00			d one		0.25	Ting Dill	g Elite Our vey	Logo	d coment	COMONE BOY	Boi	103	Duo	K OUIII	ione		1.0	0.25	DOWN	Oil	Water		8.00 12.00	Time	06:00 Temp -13.00 ditions
Tour 3 Total		1.00 17.50			0.50		0.25 0.75												3.0	<del></del>					4.00 24.00	- Donal Const	ion Wind Strength CALM tion
TOUI	R 1	SIGN	ATURE	OF D	RILLE	ER				SYLVAIN A	ARSENAUL									STAR	т тім	E	00:00	E	ND TIN	IE	08:00
BITS B	it Number	6			LLING Compone	ASSE ent OD	MBLY ID Length		RECORD Mud Type		Oil 🗌	DEVIATION Time Depth	Deviation	Direction		Туре		From	To I	Elapsed Co	de		Details o	of Operations	s in Sequen	ce & Remarks	3
	Size ADC Code nufacturer	HALLIBURT	159	1 MC	TOR HS	159	0 .26 0 8.66 69 9.35	n	Time Density	03:00 1280		01:00 2118.65m 02:15 2128.4m 03:15 2138.15m	7.2 8.4 10	127.1 130.4 133.6				00:00 06:30 07:30	06:30 07:30	6.502 1.0020A 0.257	DIREC	CTIONAL S	SURVEYS/0	CONNECTIO	INS		
	Type Serial No	MM54R	12620495	1 GA	P SUB N MAG FLEX	121	68 1.71	n Fi	innel Viscosity Fluid Loss	30s/l		04:45 2147.9m 06:00 2157.65m	12.1 13.9	137.5 135.8			=	07:45	08:00	0.257			NG/CREW		3 SECOND	TO CLOSE	
	Jets	8.7 8.7 8.7	8.7 8.7	1 CR	N MAG FLE INFL OSSOVER	SUB 134	69 9.27 61 0.94	n Locat		SHAKERS		SOLIDS O	ONTR	OL				1									
De	th Out (m) epth In (m) Drilled (m)		1857	1 CR	" HWDP OSSOVER RS-HYD/M		75 0.96	n	Depth PVT ULATION	2130m 30m3		Equipment Name CENTRIFUGE	Hours Run	Intake Density	Over Flo Densit		nsity 1900										
	Run Today		6.50	1 CR	OSSOVER 4"HWDP	_	68 0.94	n Pump#	Type Liner Size		ssure Hours Rui																
UTTI		2016/01/26 UCTUR	E	-	rill Pipe		nds 1666.60	n	INGLE 114	0 15	5700 0	MUD MAT	Product				Type EACH										
TO MDC		Gage OD( eason Pulled		ol Di	rill Pipe Kelly D		0.00 0.00 2172.00	n Remark	S:WE SWICH PU	MP #2 TO 4	1/2 "LINER	LIME NEWFLOC				3	EACH_										
LOC BRG	Tot	al Run (m/hr		W	Weight o leight of S	of DC	0kda 77kda	V									F	Remark	s: INSP	ECT FLOOR I	QUIPMEN	NT,TONG,B	BACK UP SL	INGS,DEAD	MAN,CAT H	EAD,ST-80,TU	GGER LINE HOOK
From		R-C RPM	_	Hole (	Drag u	IDITIO Jp 5	Down 6		JCED PUN							_	——F	UNCTIO	NED UPF	PER & LOWER	TRAVEL L	LIMITS & E-				PASON CHO	AD LINE, KE,MANUAL CHOKE
2115m 2	2172m D	RILL '	12kdaN		Bottom Bottom		4400.00N 0.00	HI .		50 @ @	Depth 2100	Boiler Boiler #	Hours R	lun	pH 1	Stack 1		SAFE		BING VALVE/	Safety T				N	MEHL	MACP
									@	@		330						ORK O	N MUD	PUMP				,		80.00kdaN	2850kPa
TOUI	R 2	SIGN	ATURE			ASSEI	MRIV	LMUD	RECORD	DUNCA	N STEWAR	DEVIATIO	N SHE	VEVS			<del>- </del> -	TIME	LOG	STAR	ТТІМ	E	08:00	) <b>E</b>	ND TIN	E	20:00
	it Number Size	6	159	No	Compone		ID Length		Mud Type	Water x	Oil 🗌	Time Depth 08:00 2172.3m				Туре		From 08:00		Elapsed Co		. 159mm B		of Operations		ce & Remarks	3
	ADC Code nufacturer	HALLIBURT	ON	1NO	OTOR HS				Time Density	08:00 1280	11:0 128	09:45 2186.9m 11:30 2201.5m 14:00 2216.15m	19 21.8 25.4	129.2 127.2 125.6				18:00 19:30	19:30 19:45	1.50 20A 0.25 7				ONNECTIO		ECONDS TO	CLOSE
	Type Serial No	MM54R 8.7 8.7	12620495 8.7 8.7	1 NOI MO	P SUB N MAG FLEX NEI N MAG FLE	110			rnnel Viscosity Fluid Loss pH	30s/l	30s	16:00 2230.8m 18:00 2245.4m	29.2 31.2	125.2 124.8			=	19:45	20:00	0.25 21	SAFE	TY MEETIN	NG/CREWO	CHANGE			
Dept	th Out (m)	8.7			OSSOVER "HWDP	SUB 134	61 0.94	Loca	' F	SHAKERS 2171m	SHAKERS 2197n	SOLIDS O	ONTR	OL Intake	Over Flo	ow Unde	er Flow	$\dashv$									
Total [	epth In (m) Drilled (m)		1857 395	1JAF		ECH 136		CIRC	PVT ULATION	28m3	28m	Name CENTRIFUGE	Run 12	Density	Densit		nsity 1670										
Cumulativ	Run Today re Hrs Run Entry Date	2016/01/26	37.50	IUR	OSSOVER 4"HWDP	SUB 134 140	68 0.94 72 412.01	15	Type Liner Size INGLE 140 INGLE 114	100 14	4500 12	MUD MAT	TERIAL	S ADE	DED						+						
NITTU:		RUCTUR Gage			rill Pipe rill Pipe	Sta Sin	nds 1725.75i gles 9.75i				.000	LIME	Product			mount 3	Type EACH EACH										
MDC LOC	_	ODO eason Pulleo al Run (m/hr			Kelly D Weight o	Total	12.00i	n	5:			PREVENTION NEWFLOC				1	EACH EACH	$\dashv$			$\pm$						
BRG	ES DRI				eight of S		0kda 77kda																			EAD,ST-80,TU	GGER LINE HOOK
From	To D-	R-C RPM	W0B 15 11kdaN	Hole (			Down 6 5600.00N		Pressure St	okes/min	Depth	Boiler					F IN	UNCTIO	NED UPF		TRAVEL L	LIMITS & E-					KE,MANUAL CHOKE
				Fill on	Bottom		0.00		4000 @ @ @	50 @ @ @	2244	Boiler #	Hours R	lun 12	pH 1	Stack 1	260	SAFE	ING CAS	SING	Safety T	Горіс			N	NEHL 73.00kdaN	MACP 2850kPa
TOU	R 3	SIGN	ATURE	OF D	RILLE	ER .			1 101	SYLVAIN	ARSENAUI									STAR	т тім	E	20:00	D E	ND TIM		24:00
BITS	it Number	6		DRIL	LING	ASSE	MBLY ID Length		RECORD Mud Type			DEVIATION Time Depth				Type		-	LOC	ì							
	Size ADC Code	6	159	1BIT	Compone TOR HS	159	0 .26			ther 23:00	011	Time Deput	Deviation	Direction		Туре			To   1 21:00 21:30	1.00 2 0.50 20A	DRILL		UILD SECT	TON FROM : CONNECTIO	2252M TO 2	ce & Remarks 259M	5
Mar	nufacturer Type	HALLIBURT MM54R	ON	1NO 1GA	N MAG MO	ONEL 119	69 9.35	m _	Density Innel Viscosity	1280 30s/l							— <u>[</u>	21:30	21:45 22:00	0.25 7 0.25 21	RIG S	ERVICE/FI	UNCTION L		E RAMS 4 S	ECONDS TO	CLOSE
	Serial No Jets	8.7 8.7	12620495 8.7 8.7	1 NO	N MAG FLEX NEL IN MAG FL INEL OSSOVER	EX 118	69 9.27		Fluid Loss pH ion of Sample	CHAVEDO				^-				$\overline{}$	22:30 24:00	0.50 5 1.50 6B	$\overline{}$			PRIOR TO T		вм	
	th Out (m)	8.7	2259 1857	15-4	" HWDP	140 R SUB 134	72 46.81		Depth PVT	2255m 49m3		Equipment Name	Hours Run	Intake Density	Over Flo Densit		er Flow nsity										
Hrs F	Drilled (m) Run Today		402 1.50	1JAF 1CR	RS-HYD/M OSSOVER	1ECH 136	62 5.19 68 0.94	m CIRC m Pump#	ULATION Type Liner Size	SPM Pres	ssure Hours Rui	CENTRIFUGE	-	128	5 1:	280	1900										
	Entry Date	2016/01/26 RUCTUR	39.00		4"HWDP	140 Sta	72 412.01 inds 1755.00	28	INGLE 140		5000 1 5000 0	MUD MA	Product			mount	Туре	$\dashv$			+						
TI TO	3 3	Gage			rill Pipe Kelly D	Sin		m	5:			REDUCTION PREVENTION				1	EACH EACH										
MDC BT		eason Pulled al Run (m/hr			Weight o		2259.40 0kda	m N										$\exists$									100FD L 111F
	×  <b>≡S DRI</b> To D-	LLED R-C RPM	WOB			IDITIO	77kda N Down 5		JCED PUN	MP SPE	ED							NSPEC <sup>1</sup>	T CATW	ALK,PIPE RA	CKS,PIPE	E RACK PI	NS/CHAINS	S,FLARE AN	D DEGASS	ER LINES,LO	GGER LINE HOOK AD LINE, KE,MANUAL CHOKE
-		RILL	10 14kdaN	Torque a	t Bottom Bottom		4500.00N	Pump No	Pressure St	rokes/min @	Depth	Boiler Boiler #	Hours R	tun	pH	Stack 1			T STABE	BING VALVE/	INSIDE B	OP	.,				
/12									@	@		396		4	1	1	270	ERRIC	K CONN	ECTIONS	Safety T	Горіс			N	80.00kdaN	MACP 2850kPa
<i>l</i> . 1.3																											1 of 2

FRONT PAGE SUMMARY License No Well Name	Tour Sheet Serial Number 0Y52529_20160129_1A Surface Location	Pason         2016         0           Prov         Loc Type         Unique Well Id	onth Day 29 DAILY CHECKS 1) Daily Walk Around Inspection 2) Detailed Inspection - Weekly (Using Check List) 3) H2S Signs Posted if Required	OP RM PB DA PB DA CAGDC
ARC RESOURCES Operator's AFE 6DRL0015	02-25-078-18W6  Contractor  PRECISION DRILLING, DIV OF PDCLP  Contractor's Job No  76  Signature of Contractor's Rig Manager	BC DLS 102/08-19-078-17W6/00  Rig No Well Type 529 HORIZ  Spud Date Time 2016/0121 19:00  Rig Release Date Time	He_Entry 6; 80P prills Performed 7, Visually Inspected 80Ps - Flare Lines & Degasser Lines 11 Filip Site Health & Safety Meeting (one/crew/month) 2; CAODC Rig Safety Inspection Checklist (one/rig/mon 3) Mast Inspection before Raising or Loyering 1.	pason pason
	DAVE ACHESON 8 9 10 11 12	· ·	4) Crown Saver Checked 5) Motor Kills Checked 19 20 21 22 23 24	DA Pason    Kelly Bushing   Op Fuel   2500.00
Rig   Drill   Reaming   Coring   Cond Mud   Trips   Rig	Rig Drilg Line Survey Logs & Cement 5 5		Safety   Tear   Waiting   Rig   Down   On   Watch	Other TOTAL   FUEL @ 08:00 HOURS   0.00
Total 12.50 1.50 4.50 0.75			0.25 3.75 1.00	4.00 This condition CALM Page Condition FAIR
TOUR 1 SIGNATURE OF DRILLER	SYLVAIN ARSENAULT		START TIME 00:00	END TIME 08:00
DRILLING ASSEMBLY   No   Component   OD   ID   Ler		DEVIATION SURVEYS   Time   Depth   Deviation   Direction   Type		f Operations in Sequence & Remarks
IADC Code 1 MOTOR HS 128 0 8	0.26m	0.50(250.011) 54.7 12.00	FUNCTION BLIND RAMS OO	IUTE FLOW CHECKS @ 1096M, 504M, TOOLS, 0 METERS.  H. TRIP CALC 9.72M3. ACTUAL10.61M3 DIFF WAS 0.89M3  D ON HANDLE BHA COP 2-1
Type R613 1 NON MAG FLEX 119 69 S Serial No JK6229 1 GAP SUB 121 68 1	0.35m Funnel Viscosity 1.69m Fluid Loss		02:00 02:45 0.7520 DIRECTIONAL WORK CHAN	IGE OUT BHA ASSEMBLY, REMOVE CORROSION RING P BACK IN REVIEW COP 2-5
7.9 7.9 1 1 NON MAG FLEX 118 69 S	9.30m PH	SOLIDS CONTROL	LAST STAND TO BOTTOM	W CHECK 10 MIN @0M, 504M, 1130M,1700M WASH DOWN
Depth In (m) 2259 1 5 HWDP 114 72 46	Depth	Equipment Name Run Density Density Under Flow Density	05:45 07:15 1.502 DRILL 159MM HOLE FROM 07:15 07:30 0.25 20A DIRECTIONAL SURVEYS C 07:30 07:45 0.257 RIG SERVICE FTC ANNUL	CONNECTION TIME
Cumulative Hrs Run 1.50 1 CROSSOVER SUB 134 68 C	5.19m Pump# Type Liner Size SPM Pressure Hours Run 0.94m 1 SINGLE 140 88 12000 3	3	07:45 08:00 0.25 21 CREW CHANGE MEETING	REVIEW WEEKLY FOCUS/SPILL PREVENTION
CUTTING STRUCTURE 62 Drill Pipe Stands 1760	2.01m 2SINGLE 114 0 12000 0	MUD MATERIALS ADDED  Product Amount Type		
70	0.00m			
LOC Total Run (m/hr) Weight of DC Weight of String			Remarks: INSPECT FLOOR EQUIPMENT, TONG, BACK UP SLI	INGS,DEAD MAN,CAT HEAD,ST-80,TUGGER LINE HOOK
METRES DRILLED			INSPECT CATWALK, PIPE RACKS, PIPE RACK PINS/CHAINS FUNCTIONED UPPER & LOWER TRAVEL LIMITS & E-STOPS, CRC INSPECT STABBING VALVE/INSIDE BOP	
Torque de Bottom	0.00m   @ @ @   @	Boiler	SAFETY Safety Topic	MEHL MACP
	@   @		HANDLE BHA	55.00kdaN 2850kPa
TOUR 2 SIGNATURE OF DRILLER BITS DRILLING ASSEMBLY	MUD RECORD	DEVIATION SURVEYS	START TIME 08:00	END TIME 20:00
Bit Number 7 No Component OD ID Len		Time         Depth         Deviation         Direction         Type           09:00         2275m         40         124.5	From To Elapsed Code Details of	f Operations in Sequence & Remarks ION FROM 2267M TO 2290M
Manufacturer SMITH 1NEAR BIT SUB 127 45 1	.68m Time 08:00 17:00 .35m Density 1280 1240	0 18:00 2304.25m 47.9 122.6	10:45         12:30         1.75 20A         DIRECTIONAL SURVEYS/T           12:30         14:00         1.50 BB         DISPLACE WELLBORE TO	
Serial No JK6229 1GAP SUB 121 68 1	S5m	4	18:45 19:30 0.75 20A DIRECTIONAL SURVEYS/C	ION FROM 2290M TO 2311M CONNECTIONS TIME JPPER PIPE RAMS 4 SECONDS TO CLOSE
7.9 7.9 1 NON MAG FLEX 118 69 9 1 NON MAG FLEX 118 69 1 1 CROSSOVER SUB 134 61 0	Location of Sample	SOLIDS CONTROL  Equipment Hours Intake Over Flow Under Flow	19:45 20:00 0.25 21 SAFETY MEETING/CREW 0	
Total Drilled (m) 52 1CROSSOVER SUB 134 75 0	.81m PVT 46m3 42m3 .96m CIRCULATION	CENTRIFUGE 12 1280 1260 1650		
Cumulative Hrs Run 9.00 1 CROSSOVER SUB 134 68 0	.19m         Pump#         Type         Liner Size         SPM         Pressure Hours Run           .94m         1 SINGLE         140         95         14000         12           .01m         2 SINGLE         114         0         14000         0			
CUTTING STRUCTURE	1.25m	Product         Amount         Type           LIME         25         EACH           REDUCTION         1         EACH		
MDC Reason Pulled Total 2311		OPTI-MUL         1         EACH           OPTI-PLUS         1         EACH		
	kdaN kdaN		Remarks: INSPECT FLOOR EQUIPMENT, TONG, BACK UP SLI	
From         To         D-R-C         RPM         WOB         Hole Drag         Up         8         Down           2267m         2311m         DRILL         15         8kdaN         Torque at Bottom         7000.	00Nm Pump No. Pressure Strokes/min Depth	Boiler	FUNCTIONED UPPER & LOWER TRAVEL LIMITS & E- STOPS,CRC INSPECT STABBING VALVE/INSIDE BOP	DWN SAVER,IGNITER AND PASON CHOKE,MANUAL CHOKE
Fill on Bottom	0.00m 1 3760 @ 50 @ 2289 1 5850 @ 50 @ 2289 @ @ @	9 396 12 11 255	SAFETY Safety Topic STEP BACK HELD MEETING WITH MECHANIC	MEHL MACP 84.00kdaN 3158kPa
TOUR 3 SIGNATURE OF DRILLER	SYLVAIN ARSENAULT		START TIME 20:00	END TIME 24:00
BITS DRILLING ASSEMBLY  Bit Number 7 No Component OD ID Ler	MUD RECORD  mgth Mud Type Water 0 0il x	DEVIATION SURVEYS Time   Depth   Deviation   Direction   Type	TIME LOG From To Elapsed Code Details of	f Operations in Sequence & Remarks
Size 159 1BIT 159 0 0	0.26m Other 20:00	21:30 2318.9m 52.8 122.2	20:00 23:30 3.50 2 DRILL 159MM HOLE FROM 23:30 23:45 0.25 20A DIRECTIONAL SURVEYS/C	2311M TO 2332M
Type R613 1NON MAG FLEX 119 69 9	1.35m Density 1220 9.35m Funnel Viscosity		23:45 24:00 0.25 7 RIG SERVICE/FUNCTION L	OWER PIPE RAMS 4 SECONDS TO CLOSE
Jets 7.9 7.9 7.9 1 NON MAG FLEX 118 69 9	1.69m	SOLUDE CONTROL		
Depth Out (m) 1CROSSOVER SUB 134 61 (	0.94m Depth 2308m PVT 54m3	Equipment Name   Hours Run   Density   Densi		
Hrs Run Today 3.50 1JARS-HYD/MECH 136 62	0.96m CIRCULATION  5.19m Pump# Type Liner Size SPM Pressure Hours Run	CENTRIFUGE 0 0 0 0		
	0.94m	MUD MATERIALS ADDED Product Amount Type		
TI Gage 1 Drill Pipe Singles 9	9.75m 2.00m Remarks:	LIME   35 EACH   OPTI-MUL   1 EACH   OPTI-PLUS   1 EACH		
LOC Total Run (m/hr) Weight of DC	2.00m UkdaN	OPTI-WET         1 EACH           BENTONE 920         4 EACH	D	
	REDUCED PUMP SPEED	NEWVEX   3 EACH   CYBER SEAL   3 EACH   GILSONITE   3 EACH	Remarks: INSPECT FLOOR EQUIPMENT, TONG, BACK UP SLI INSPECT CATWALK, PIPE RACKS, PIPE RACK PINS/CHAINS FUNCTIONED UPPER & LOWER TRAVEL LIMITS & E-STOPS, CRC	S,FLARE AND DEGASSER LINES,LOAD LINE,
2311m 2332m DRILL 15 15kdaN Torque at Bottom 5600.	Pump No.         Pressure         Strokes/min         Depth           0.00m         2 3500         50         2 2333	BOILET	INSPECT STABBING VALVE/INSIDE BOP SAFETY	
V13		396 4 11 250	Safety Topic SPILL PREVENTION	MEHL   MACP     78.00kdaN   3158kPa

License No		/ell Name			GE SUN	MAR	Y			OY525: Surfa	Sheet Seria 29_2016013 ce Location	30_1A	Vendo Pason	r Software V	Loc Type	Unique W	2016 ell ld		30	DAILY C 1) Daily Walk An 2) Detailed Inspection B 3) H2S Signs Po	ound Insper ection - We sted if Requ	ction ekly (Using Ch uired		PB DA	∄ <b>(</b> (	CAC	DC	)
31526 Operator ARC RESO Operator's 16DRL0015 Signature	URCES AFE		SUNRISE K2-	25-78-18				Contra 76	ictor ISION DRILLING Ictor's Job No cure of Contracto	G, DIV OF F			Rig I 529		Well Type HORIZ Spud Date 2016/01/21 Rig Releas	Time	9-078-17W6/0		Entry 8	I) Well Licence 5) Flare Lines St 6) BOP Drills Per 7) Visually Inspec 1) Rig Site Healt 2) CAODC Rig St 8) Mast Inspecti	aked rformed ted BOPs - h & Safety afety Inspec on before F	Flare Lines & D Meeting (one/ ction Checklist	egasser Lines crew/month) t (one/rig/mor	nth)	P	aso		
Paul Boutilie		2	3	4	5	6	7	DAVE	ACHESON B 9	10	11	12	13 1	4 15	5 16	17	18	19	20	) Crown Saver 5) Motor Kills Ch 21		23	24	25		Kelly Bushing 5.90	0p Fuel 3000.00	De
Tour 1	Rig Up	Drill Actual 4.7 10.7	+	Coring	Cond Mud & Circ	Trips	_	Rep 0.25		Dev Survey	Wireline Logs	Run Csg & Cement	Wait On Cement BO	OP BOI	Drillste P Test		Squeeze Cement	Fishing	Dir Work 2.7	75 0.25	Tear Down	Waiting On	Rig Watch	Other	8.00 12.00	Time CLEAR	06:00 Temp 06:00 -8	0.00 8.00
Tour 3 Total		3.2 18.7	<del> </del>				_	.25 .75						(	0.25				0.5 3.7						4.00 24.00	Wind Direct N Road Condit FAIR	ion Wind Strength CALM tion	_
TOUI	R 1	SIC	GNATUR								SYLVAIN A	ARSENAULT									T TIM	IE	00:00	E	END TIM	E	08:00	
BITS B	it Numb			No	ILLING Compone	ent OE	) ID I	Length	MUD RE	Mud Type	Water	Oil x	Time Depth 00:152333.5n	Deviation		T	уре	From		Elapsed Co	_				ns in Sequen	e & Remarks	3	
	Siz ADC Coo nufactur		15	1	MOTOR HS NEAR BIT SU	15 12 UB 12	28 0	0.26m 8.68m 1.35m		Time Density	02:00		06:152348.1n					00:00 04:45 05:30	04:45 05:30 07:30	4.752 0.7520 2.00208	DIRE	L 159MM H CTIONAL S UBLE SHOO	URVEYS C	ONNECTI	ON TIME/DO	WNLINK TOO	DLS	_
	Typ Serial N	lo	JK622	9 1	NON MAG FLE MONEL GAP SUB	EX 11	9 69	9.35m 1.69m	Funnel \	uid Loss								07:30 07:45	07:45	0.257 0.2521	RIG :		CT ANNULA	AR 19 SEC	TO CLOSE			=
Deni	Je th Out (r	7.9	7.9 7.9 7. 7.9		NON MAG FLE MONEL NON MAG FLEX MONEL CROSSOVER	X 11	8 69	9.30m 9.27m 0.94m	Location of	Sample :	SHAKERS 2336m		SOLIDS		_	Over Flow	Under Flov											_
De	pth In (r Orilled (r	n)	225	9 1	HWDP CROSSOVER	11	4 72	46.81m 0.96m	CIRCULA	PVT	53m3		Equipment Name CENTRIFUGE	Run	Intake Density 2 1230	Density 121	Density											_
Cumulativ		in	4.7 17.2	5 1	IARS-HYD/N CROSSOVER	SUB 13	4 68	5.19m 0.94m	Pump# Type 1 SINGL	_	88 16	ssure Hours Rur 6700 8	MUD MA	TEDIA	SADD	ED												_
CUTTIN				64	Drill Pipe Drill Pipe	S		112.01m 346.25m 0.00m	2 SINGLI	114	0 16	5700 0	BARITE	Product			ount Type 50 EAC	Н										_
TO MDC	$\exists$		ODC		Kelly D			0.00m 353.00m	Remarks:				OPTI-GLIDE				1 EAC											Ξ
BRG		Total Run (n		МС	Weight of S	String		0kdaN 78kdaN		-									_	PECT FLOOR	_						GGER LINE HO	OK
From			15 15kda	Hol		Up 8	Down	6 0.00Nm	Pump No. Pre			Depth	Boiler					FUNCTI	ONED UP		R TRAVEL	LIMITS & E-					KE,MANUAL CHO	KE
				Fill	on Bottom			0.00m	1 566	0 @ @ @	50 @ @ @	2337	Boiler #	Hours F	Run 8	pH 11	Stack Temp	70	ETY	011.011110	Safety	Торіс			N	EHL 82.00kdaN	MACP 3158	N-D-
TOU	R 2	SIG	GNATUR	_ E OF	DRILLE	ĒR				181		N STEWAR						CHANG	SE READ	ON PUMP	T TIM	IE .	08:00	E	ND TIM	_	20:00	NF d
BITS				DR	ILLING	ASSE			MUD RE				DEVIATI Time Depth			7	ype		E LO	G				1				
	it Numb Siz ADC Coo	ze	15	$\dashv$	Compone BIT MOTOR HS	15		0.26m 8.68m			Water Uther 08:00	11:00	10:15 2362.75n	61.5 n 64	122 119.3	'	уре	08:00	_	10.75 2 0.50 20/	DRIL	L 159mm BI	JILD SECTI	ION FROM	ns in Sequeno 1 2353M TO 2 ONS		5	_
	Тур			1	NEAR BIT SU NON MAG FLE MONEL	UB 12 EX 11	9 69	1.35m 9.35m	Funnel \	1 H	1220 65s/l	1220 63s/	17:15 2392m	66.2	119.9			19:15	19:30	0.25 7 0.25 15	RIG S	SERVICE/FU	JNCTION U	IPPER PIP	E RAMS 4 SI S 21000 KPA P	RESSURE RE	MAINING 11000 K	
	Serial N Je	ts 7.9	JK622 7.9 7.9 7.	.9 1	SAP SUB NON MAG FLE MONEL NON MAG FLEX		8 69	1.69m 9.30m	FI Location of	pH Sample	SHAKERS	SHAKERS	SOLIDS	CONTE							TEST						2 SEC T/OPEN FI ED ANNULAR 19 S	
	th Out (r pth In (r	n)	225	<del> </del>	ONEL CROSSOVER HWDP		4 61	9.27m 0.94m 46.81m		Depth PVT	2353m 52m3	2365m 50.5m3	Equipment Name		_	Over Flow Density	Under Flov Density	N 19:45	20:00	0.2521		W CHANGE	MEETING					_
Hrs F	Orilled (r Run Toda	ау	10.7	′5 <sub>1</sub>	CROSSOVER	IECH 13	6 62	5.19m	CIRCULA Pump# Type	Liner Size			CENTRIFUGE		3 1230	120	0 163	30										_
Cumulativ E CUTTIN	Entry Da	te 2016/01/		1	CROSSOVER 14 HWDP Drill Pipe	11	4 72 4	0.94m 12.01m 901.25m	1SINGLI 2SINGLI			3500 12 3500 0	MUD MA	TERIA Product			ount Type											_
TI TO	$\exists$	(	Gage ODC	d	Drill Pipe Kelly D	Down	ngles	0.00m -7.00m	Remarks:				BARITE LIME CAL CHLORIE	DE HT			42 EAC 20 EAC 30 EAC	:н										_
LOC BRG	1	Reason Pi Total Run (n			Weight of S			01.00m 0kdaN 78kdaN					OPTI-GLIDE OPTI-PLUS OPTI-WET				1 EAC 1 EAC	Н	ks. INS	PECT EL OOR	FOLIIPME	NT TONG B	ACK LIP SI I	NGS DEAD	MAN CAT H	-AD ST-80 TU	GGER LINE HO	OK
METRE			PM WOB		LE CON		ON		REDUCE									INSPEC	CT CATV	VALK,PIPE R	ACKS,PIF R TRAVEL	E RACK PII LIMITS & E-	NS/CHAINS	FLARE A	ND DEGASS	ER LINES,LO		
2353m 2	2401m	DRILL	20 14kda	lorda	e at Bottom on Bottom		760	0.00Nm 0.00m	Pump No. Pre	ssure Str	rokes/min 50 @ @	Depth 2376	Bollet #	Hours F			Stack Temp	CAE	ETY	BING VALVE	/INSIDE E					EHL	MACP	
										@	@		39	90	12	11	28	INSTAL	L GEN#	1 RAD						87.00kdaN	3107	kPa
TOUI	R 3	SIC	GNATUR		DRILLE		MBL	<u> </u>	MUD RE	CORD	SYLVAIN	ARSENAUL	DEVIATI	ON SUF	RVEYS			ТІМ	E LO		T TIM	IE	20:00	E	END TIM	E	24:00	
	it Numb	ze	15	$\dashv$ $\vdash$ $\dashv$	Compone BIT	15	_	0.26m		. 0	Water	0il x	Time Depth 21:15 2406.6n		Direction 120.8	T	уре	From 20:00	23:15	Elapsed Co 3.25 2	DRIL	L 159MM H	OLE FROM	2401M TC		e & Remarks	3	
		er SMITH De R613		1	MOTOR HS NEAR BIT SU NON MAG FLEX		7 45	8.68m 1.35m 9.35m	Funnel \	Time Density /iscosity	20:00 1230 62s/l	22:30 1220						23:15	1	0.50 20/	$\rightarrow$	SERVICE FO			ON TIME 1 4 SEC TO C	LOSE		_
	Serial N	lo	JK622		GAP SUB NON MAG FL MONEL	12 EX 44	1 68	1.69m 9.30m		uid Loss pH	023/1							╪										_
	th Out (r	n)	7.9		MONEL NON MAG FLEX MONEL CROSSOVER	R SUB 13		9.27m 0.94m	Location of	Depth	SHAKERS 2405m	SHAKERS 2410m	SOLIDS Equipment Name	Hours	Intake	Over Flow Density	Under Flov Density	w										_
Total [	epth In (r Orilled (r Run Toda	n)	225 15 3.2	6 1	CROSSOVER	R SUB 13	$\overline{}$	46.81m 0.96m 5.19m	CIRCULA Pump# Type	TION Liner Size	SPM Pres	55m3	CENTRIFUGE	Run	Density 0 0	Delisity	Delisity	0										_
	Intry Da	te 2016/01/2		25 1	CROSSOVER	R SUB 13	4 68 4 72	0.94m 412.01m	1SINGLI 2SINGLI	140	88 17	7700 4	MUD MA				ount Tuno											_
TI TO	IG ST	(	URE Gage ODC		Drill Pipe Drill Pipe Kelly D	Si	tands 1	901.25m 0.00m 7.00m	Remarks:				CAL CHLORIE OPTI-GLIDE	Product DE HT		Am	ount Type 20 EAC 1 EAC	H										_
MDC LOC	Ξ,	Reason Pu Total Run (n	ulled			Total	2	7.00m 415.00m 0kdaN	nemarks:				GILSONITE NEWVEX				10 EAC 1 EAC 3 EAC	н										_
BRG			DM Luca	_	Weight of S	NDITIO	ON	78kdaN	DEDUCE	D DHA	ID SPE	ED.	CYBER SEAL CALCIUM NIT	RATE			3 EAC	H Remar	CT CATV	VALK,PIPE R	ACKS,PIF	PE RACK PII	NS/CHAINS	FLARE A	ND DEGASS	ER LINES,LO		
2401m 2	_	D-R-C P	PM W0B 20 18kda	N Torqu	e Drag L e at Bottom on Bottom	Jр <u>8</u>		6 00.00Nm 0.00m	Pump No. Pre	ssure Str		Depth	Boiler Boiler #	Hours F	Dun. I	pH	Stack Temp	INSPE		PER & LOWE BING VALVE			STOPS,CRO	WN SAVER	CIGNITER AND	PASON CHO	KE,MANUAL CHO	ıΚΕ
V. 1.3				]				2.0011		@	@		39		4	11	Stack remp 28	_	DRILL		Safety	Topic			N	B3.00kdaN	MACP 3158	lkPa
v 1.3																												

License No 31526		Name	FRON		GE SUN	MAR	Y			oy5252 Surfa	Sheet Serial 29_2016013 ce Location 078-18W6		Vendor Pason		Loc Type	Unique We	2016	01	31 1	DAILY C ) Daily Walk Ard ) Detailed Inspect ) H2S Signs Post ) Well Licence &	ound Inspection - Wei sted if Requ	ction ekly (Using Ch uired	neck List)	OP         R           PB         DA           PB         DA           PB         DA		CAG	DC
Operator ARC RESOUR Operator's AFE 16DRL0015 Signature of 0 Paul Boutilier	CES			.3-70-10				Contra 76 Signat	actor ISION DRILLIN actor's Job No ture of Contrac ACHESON	G, DIV OF F	PDCLP		Rig N 529	lo 2	Well Type HORIZ Spud Date T 2016/01/21 1 Rig Release	ime 9:00	070-17 W000		Entry 6 7	i) Flare Lines St i) BOP Drills Per i) Visually Inspec ) Rig Site Healt i) CAODC Rig Sa i) Mast Inspecti i) Crown Saver	aked formed ted BOPs - I h & Safety I afety Inspecton before R Checked	Flare Lines & D Meeting (one/ ction Checklis	Degasser Lines (crew/month) t (one/rig/mor	PB DA PB DA PB DA	F	<b>as</b> c	son
CODE	fl Rig Up	2 Drill Actual	3 Reaming	4 Coring	5 Cond Mud & Circ	6 Trips	Rig Serv	g Re	B 9 pair Cut Offig Drilg Lin		Wireline Logs	12 Run Csg & Cement	13 1 Wait On Cement BO	e Up Test	Drillsten	17 Plug Back	18 Squeeze Cement	19 Fishing	20 Dir Work	Motor Kills Ch 21 Safety Meeting	22 Tear Down	23 Waiting On	24 Rig Watch	<b>25</b> Other	TOTAL	Rin	0p Fuel 4000.00 08:00 HOURS 500.00 Boiler 500.00 Temp
Tour 1 Tour 2 Tour 3 Total		2.00 8.50			1.25	0.7	75	0.25 0.25 0.50	0.7										0.5 2.5 1.0 4.0	0.25					8.00 11.75 4.00 23.75	Current Cor CLEAR Wind Direct N Road Condi FAIR	06:00 -8.00 ditions wind Strength CALM
TOUR BITS	1	SIG	NATUR	_	DRILLE		MBI	<b>v</b>	MUD RE		SYLVAIN A	RSENAULT	DEVIATION	ON SUR	VEVS			ТІМ	E LO		T TIM	IE	00:00	E	END TIM	E	08:00
Bit N IADO Manufa	Size Code cturer Type rial No Jets	7.9 7		No 9 1 E 1 No	Compone	15 12 UB 12 EX 11 12 EX 11	D ID 59 0 28 0 27 45 19 69 21 68	0.26m 8.68m 1.35m 9.35m 1.69m 9.30m	Funnel F	Mud Type  0 Time Density Viscosity Iuid Loss pH	Water	Oil 🗵	Time Depth 00:45 2421.25m 03:15 2435.85m 05:00 2442m	Deviation 72.7 74.8 76.3	Direction 121.8 123.5 124.2	Ту	pe	93:45 04:15	To 03:30 03:45 04:15 07:15	3.502 0.257 0.5021A	DRIL RIG S A SOUR HEAD WAR	SERVICE/ F R DRILL WITH D COUNT AN INING SIGN L 159mm B	UILD SECT FUNCTION A NIGHT CRE ID MASKING I ,LIGHT BA UILD SECT	ION FROM ANNULAR W WELL SE B UP IN 2 M R LOCATI	IN 30 SEC RE ON AND COI 1 2436M- 245	436M S TO CLOSE L MEMBER AT VIEW SEARCI OR FOR EAG	MUSTER AERA FOR I ROUTE AND KICK
CUTTING	In (m) ed (m) Today rs Run y Date 2		245 225 19 6.5 31.2	8 10 9 15 9 10 0 1J 5 10 65	IONEL ROSSOVER HWDP ROSSOVER ARS-HYD/N ROSSOVER 4 HWDP Drill Pipe	R SUB 13 11 R SUB 13 MECH 13 R SUB 13	34 61 14 72 34 75 36 62 34 68 14 72 tands 1	9.27m 0.94m 46.81m 0.96m 5.19m 0.94m 412.01m 951.25m	CIRCUL Pump# Type 1 SINGI 2 SINGI	Depth PVT ATION Liner Size	88 18	Sure Hours Rur 1000 8	Equipment Name CENTRIFUGE  MUD MA	Hours Run 2	Intake Density 1245		Under Flow Density 190 unt Type 50 EACH	07:15 07:45	07:45	0.5020/	$\overline{}$	CTIONAL S		CONNECTI	ONS		
TI TO MDC BT LOC G BRG	Re Tota	ason Pull I Run (m/	DC WT ed BHA hr) 6.3	HO Hole	Weight of S	Down Total of DC String	ON Down	0.00m 0.00m 2458.00m 0kdaN 78kdaN	Remarks:		okes/min	ED Depth	GILSONITE				3 EACH	Remar INSPEC FUNCTI	ONED UP	/ALK,PIPE R	ACKS,PIP	PE RACK PI LIMITS & E-	NS/CHAINS	S,FLARE A	ND DEGASS	ER LINES,LO	GGER LINE HOOK AD LINE, KE,MANUAL CHOKE
				Fill	on Bottom			0.00m		@ @ @	@ @		Boiler #	Hours Ri	un 8	pH 11	Stack Temp 28	0	ETY OUT TAG	OUT	Safety	Topic			N	EHL 83.00kdaN	MACP 3057kPa
TOUR BITS	2	SIG	NATUR	_	DRILLE		MBL	Y	MUD RE	CORD	DUNCAN	I STEWART	DEVIATION	ON SUR	VEYS			ТІМ	E LO		т тім	IE	08:00	E	END TIN	E	20:00
IADO Manufa	rial No Jets Jut (m) In (m)	7.9 7.11.1 11.	A21081	1M 1M 1G 1G 22 2M 99 1X 1H 1X 88 1S	Compone SIT MOTOR MONEL SAP SUB MONEL V/O MWDP V/O SLIDE REAM	15 12 12 12 11 13 13 13 15	28 0 21 68 21 68 21 68 38 69 34 61 34 61 34 68	Dength 0.20m 9.09m 9.35m 1.71m 18.57m 0.94m 9.36m 0.96m 1.41m 0.94m	Funnel	Time Density Viscosity Iluid Loss pH f Sample Depth PVT	Water	Oil ×	SOLIDS Equipment Name CENTRIFUGE			Over Flow Density		99:15 12:45 13:00 15:30 16:00 16:15	09:15 12:45 13:00 15:30 16:00 16:15	Elapsed Cc 1.25 5 3.50 6B 0.25 21 2.50 200 0.50 6E 0.25 6A 0.75 9A	CIRC TRIP 1238I CAL.: SAFE HAND OF H PICK TRIP	OUT OF HO M,538M, 81 =10.46m3/A TY MEETING DLE DIRECTION IOLE	DLE FROM 2 M, 0M FUN CC.=11.75 WITH DIRE DNAL TOOLS PIPE 15 SIN ROM 412M	WITH 10 MI  458M TO V CTION BLI  m3/DIFF.= CTIONAL P WITH 10MIN  NGLES TO 538. F	VITH 10MIN F IND RAMS O 1.29m3 RIOR TO HAN N FLOW CHECK	CK @ 2457M LOW CHECK: JT OF HOLE DLING TOOLS/ @ @ FUNCTI	PUMP PILL @2457M S @ 2458M, 2319M, HOLE FILL VOL.= FLOW CHECK @81M ON BLIND RAMS OUT
TI TO MDC LOC BRG	rs Run y Date 2 STR Re Tota	Ga O eason Pull I Run (m/	ge DC	0 1	Weight of S	Si Si Oown Total of DC String	33 74 33 62 tands ingles	48.75m 0.96m 5.19m 0.00m 0.00m 0.00m 165.62m	Pump# Type  1 SINGL 2 SINGL  Remarks:	E 114	-	Sure Hours Rur 1000 1 1000 0	MUD MA	TERIAL Product	S ADDI		unt Type	Remar			TRIP 1233i	M, FILL PIP	OM 538M TC E @ 1752M	I THEN WA	ASH LAST ST	AND TO BOT	GGER LINE HOOK
From To			M WOB	Hole Torque	at Bottom		ON Down		REDUC Pump No. Pr	essure Str	okes/min	<b>Depth</b>	Boiler					FUNCTI	ONED UP	ALK,PIPE RA PER & LOWER BING VALVE	R TRAVEL	LIMITS & E-					AD LINE, KE,MANUAL CHOKE
				Fill	on Bottom					@ @	@ @		Boiler #	Hours Ri	un 12	pH 11	Stack Temp 26		NG OUT		Safety	Торіс			N	EHL 102.00kdaN	MACP 3107kPa
IADO Manufa	umber 8 Size C Code	3	15 16 A21081	No 9 1E 1N 1N 1N 1N	ILLING Compone BIT MOTOR MONEL GAP SUB	ASSE	D ID 60 0 28 0 21 68 21 68	Y Length 0.20m 9.09m 9.35m 1.71m 18.57m	Funnel	Mud Type	Water ther 21:30		DEVIATION Time Depth 21:45 2459.5m 23:00 2473.54m 23:30 2482m 23:45 2487.58m			Ту	pe	20:00 20:45 22:45	20:45		DRIL DIRE	CULATE TRI L 159MM H	P GAS THE OLE FROM SURVEYS,C	f Operation ROUGH CH 2458M TO		ee & Remarks	24:00
Depth C Depth Total Drill Hrs Run Cumulative H	Jets lut (m) In (m) ed (m) Today rs Run	7.9 7. 11.1 11.	9 7.9 7. 1 245 3 2.0 2.0	9 1× 11+ 1× 8 1s 0 1× 0 15	WDP  WO SLIDE REAM  WO 4.5 " DP	13 13 13 18 18 13 13 13	34 61 34 61 34 68 50 63 34 68 33 74 33 74	0.94m 9.36m 0.96m 1.41m 0.94m 48.75m 0.96m 5.19m	CIRCUL Pump# Type 1\$INGL	pH sample some performance of the pH sample of	120 17	Sure Hours Rur 7000 3	SOLIDS Equipment Name CENTRIFUGE	Hours Run 0	Intake Density 0	Density	Under Flow Density	0									
TI TO MDC LOC BRG MINITES	Re Tota	Ga O eason Pull Il Run (m/	ge DC ed hr)	но	Weight of S Weight of S	Si Down Total of DC String	ingles 2	308.88m 0.00m 14.00m 2488.50m 0kdaN 76kdaN	Remarks:	ED PUM	IP SPE	ED		Product		Amo	unt Type	INSPEC	ONED UP	/ALK,PIPE R	ACKS,PIP	PE RACK PI	NS/CHAINS	S,FLARE A	ND DEGASS	ER LINES,LO	GGER LINE HOOK AD LINE, KE,MANUAL CHOKE
2458m 248i	Bm DF	RILL	45 6.5kdal	7	at Bottom on Bottom		42	0.00Nm 0.00m	Pump No. Pr	essure Str @ @ @	okes/min @ @ @ @ @ @	Depth	Boiler Boiler #	Hours Ri	un 4	DH 11	Stack Temp 26	SAF	ETY	BING VALVE	Safety				N	EHL 82.00kdaN	MACP 3000kPa

License No		II Name			GE SUN	ИMAR	Y			OY525 Surfa	Sheet Seria 29_2016020 ace Location	01_1A	Vendor Pason		Loc Type	Unique Wel	2016 I ld	02	01 1 2 3	DAILY C ) Daily Walk Aro ) Detailed Inspe ) H2S Signs Pos	und Inspec ction - Wee ted if Requ	ction ekly (Using Ch uired	neck List)	PB DA	∃ (	CAO	DC
31526 Operator ARC RESOL Operator's A 16DRL0015 Signature of	JRCES AFE f Operato	r Represent		25-78-18				Contra 76 Signat	ISION DRILLIN actor's Job No ture of Contrac	IG, DIV OF			Rig N 529	0 \\ 1	DLS Well Type HORIZ Spud Date To 2016/01/21 19 Rig Release	ime 9:00	078-17W6/00		Entry   5 6 7 7 1 2 3	) Well Licence & ) Flare Lines Sta ) BOP Drills Per ) Visually Inspect ) Rig Site Health ) CAODC Rig Sa ) Mast Inspectic ) Crown Saver (	aked formed ed BOPs - I n & Safety I fety Inspec in before R	Flare Lines & C Meeting (one/ ction Checklis	legasser Lines 'crew/month) t (one/rig/mor	DA		<b>asc</b>	
Paul Boutilie	f 1 Rig	<b>2</b>	3	4	5 Cond Mud	6	<b>7</b>		ACHESON  B 9  pair Cut Off	<b>10</b>	11	12 Run Csg	13 14 Wait On Nipple		16	<b>17</b>	18 Squeeze	19	<b>20</b> Dir	) Motor Kills Ch	ecked 22 Tear	23 Waiting	<b>24</b>	25		Kelly Bushing 5.90	0p Fuel 0.00 8:00 HOURS
Tour 1	Up Up	5.25 7.75	Reaming	Coring	& Circ	Trips	(	0.25 0.25	ig Drilg Lir	ne Survey		& Cement	Cement BO	P BOP	Test	Back	Cement	Fishing	Work 2.2 3.7	Meeting 5 0.25	Down	On	Watch	Other	8.00 12.00	2942 Time Current Condition CLEAR Wind Direction	5.00 Boiler 0.00 Temp 06:00 -18.00 ons Wind Strength
Tour 3 Total		3.00 16.00					_	0.25											0.5 6.5	0.75					4.00 24.00	N Road Condition FAIR	CALM
TOUF BITS	R 1	SIGI	NATURI	_	DRILLE ILLING		MBL	Y	MUD RE	CORD	SYLVAIN A	ARSENAULT	DEVIATION	ON SUR	VEYS			TIM	E LO	STAR	T TIM	E	00:00	E	ND TIMI	=	08:00
IA	Number Size NDC Code ufacturer		159	1 1	Compone BIT MOTOR MONEL	ent OE 15 12	60 0 28 0	0.20m 9.09m 9.35m			Water Other 02:00 1265	0il x 05:00	Time Depth 00:15 2495m 00:15 2501m 01:15 2515.66m	Deviation [ 81.4 81.3 82.6	125.2 124.7 124.7	Туј	pe	90:00 05:15 07:30	05:15	5.252 2.2520A 0.257	DRILI DIRE	L 159MM H CTIONAL S	OLE FROM SURVEYS,C	2488M TO	ON TIME	& Remarks	
	Type Serial No	SK413M-B1	A21081:	1 C	GAP SUB	12	e 68 8 69	1.71m 18.57m		Viscosity Fluid Loss	1200	1230	02:00 2529.7m 03:00 2543.74m 03:15 2557.78m	91.1 91.1	124.9 123.3 123.7			07:45	08:00	0.2521	$\neg$				EY BELIEFS		
	Jets h Out (m)	7.9 7.9		1)	(/O HWDP (/O	13 11 13	4 73 34 68	0.94m 9.36m 0.96m	Location	Depth	SHAKERS	2617m	SOLIDS Equipment	Hours	Intake		Under Flow										
Total D Hrs R	oth In (m) rilled (m) un Today		245i 25i 5.2i	9 1	SLIDE REAM (/O i 4.5 " DP	13 11	68 4 97	1.41m 0.94m 48.75m	CIRCUL. Pump# Type		SPM Pres	51m3 ssure Hours Rur	Name CENTRIFUGE	Run	Density 0	Density 0	Density										
Cumulative Er CUTTIN	ntry Date	2016/01/31 RUCTU	7.29 RE	1	ARS/ HYD N Drill Pipe		3 62	0.96m 5.19m 102.09m	1 COMBIN	1111		3800 8 3800 4	MUD MA	TERIAL Product	S ADDE	Amo	unt Type										
TI TO MDC		Gag OD Reason Pulle	С	_	Drill Pipe Kelly D		ngles 2	0.00m 0.00m 717.00m	Remarks:				BARITE NEWVEX CYBER SEAL OPTI-WET				120 EACH 4 EACH 4 EACH 1 EACH	-11									
LOC BRG		tal Run (m/h	ır)		Weight of S	String		0kdaN 76kdaN					NEW WASH GILSONITE CALCIUM NITR	ATE			1 EACH 7 EACH 1 EACH	Remar							MAN,CAT HE		GER LINE HOOK
From	To D	-R-C RPN	M W0B 45 6.5kdah	Hol N Torque	e Drag L e at Bottom	Up <u>8</u>	Down	00.00Nm	Pump No. Pr	ressure St		Depth 2550	Boiler				20 EACH	FUNCTION	ONED UP		TRAVEL	LIMITS & E-					,MANUAL CHOKE
					on Bottom			0.00m		@	@		Boiler #	Hours Ru	IN F	11 S	Stack Temp 280			ION LIST	Safety '	Topic			ME	HL 84.00kdaN	MACP 2975kPa
TOUR	2	SIGI	NATURI		DRILLE			· ·	MUD RE	-0000	DUNCA	N STEWART	DEWAT	NI GUD	VEV.			T	E LO	STAR	т тім	IE	08:00	E	ND TIMI	≣	20:00
IA	t Number Size ADC Code ufacturer		159	No 15	Compone		0 ID 60 0		WOD RE	Mud Type	Water Other 08:00 1300	0il ×	Time Depth 08:00 2716.91m 08:15 2731.2m 08:45 2746.16m	90.7 90.3 90.5	122 122.2 122.6	Туј	pe	From 08:00 15:45 19:30	To 15:45 19:30	Elapsed Co 7.75 2 3.75 20A 0.25 7	DRILI DIRE	L 159MM H	OLE FROM	2717M TO			
;	Type Serial No Jets	7.9 7.9	A21081	2 2	MONEL	12 11 13	8 69	1.71m 18.57m 0.94m		Viscosity Fluid Loss pH	61s/l	61s/	09:15 2761.24m 09:30 2775.41m 10:15 2790.11m 10:30 2804.66m	90.7 90.7 89.7 89.1	121.8 120.8 122			19:45	20:00	0.2521	CREV	W CHANGE	MEETING				
	h Out (m)	11.1 11.1	245	1	WDP (/O SLIDE REAM	11	4 73 34 68	9.36m 0.96m	Location o	of Sample Depth PVT	SHAKERS 2720m 50m3	SHAKERS 2861n 47m3	SOLIDS ( Equipment Name			Over Flow Density	Under Flow Density										
Total D	rilled (m) un Today		65: 7.7: 15.0	9 1)	(/O i 4.5 " DP	13	4 68 4 97	0.94m 48.75m	CIRCUL Pump# Type	ATION Liner Size	SPM Pres	ssure Hours Rur	centrifuge CENTRIFUGE	1.5	1350 1380	1320 1250	1700										
Er CUTȚIN	ntry Date	2016/01/31 RUCTU	RE	18	ARS/ HYD AECH Drill Pipe	13 Si	_	0.96m 5.19m 526.50m	1ED 2COMBI	114 IN- 114		4500 12 4500 12	MUD MA	Product	S ADDE	Amo	unt Type										
TI TO MDC	_	Gag OD Reason Pulle	c ed	9		Down Total		0.00m -24.41m 117.00m	Remarks:				OPTI-WET CAL CHLORIDI CYBER SEAL	НТ			1 EACH 40 EACH 3 EACH										
BRG	S DR				Weight of S LE CON	String		0kdaN 76kdaN					NEWVEX LIME				3 EACH 5 EACH	Remar	CT CATW	ALK,PIPE RA	ACKS,PIP	E RACK PI	NS/CHAINS	S,FLARE AN	ND DEGASSE	R LINES,LOAI	
	_	-R-C RPM	M W0B 50 10kdah	N Torque	e Drag U e at Bottom on Bottom	Up 8		00.00Nm 0.00m		ressure St		Depth 2760	Boiler Boiler#	Hours Ru	ın İ r	DH S	Stack Temp	INSPEC		PER & LOWER	_		STOPS,CRC	OWN SAVER	IGNITER AND	PASON CHOKE	MANUAL CHOKE
				_					1 46	@	50 @	2876	396		12	11	255	STICK	CONECT	ION	Safety '	Topic			ME	HL 87.00kdaN	MACP 2400kPa
TOUF	3	SIGI	NATURI		DRILLE ILLING		MBL	Y	MUD RE	ECORD	JO	SH GILBER	DEVIATION	ON SUR	VEYS			TIM	E LO	STAR	т тім	E	20:00	E	ND TIMI	<u> </u>	24:00
	t Number Size ADC Code	8	159	$\neg$	Compone BIT MOTOR	ent 00 15		Length 0.20m 9.09m			Water Dther 20:00	0il x	Time Depth 20:00 3126.41m 21:00 3155.66m	Deviation I 90.7 90.2	124.5 123.3	Туј	pe	From 20:00 23:00	To 23:00 23:30	3.00 2 0.50 20A	DRIL	L 159mm L/	ATERAL SE	CTION FR	s in Sequence OM 3117M-32		
	ufacturer Type Serial No	REED SK413M-B1	IG A21081:	10	MONEL GAP SUB MONEL	12	21 68 21 68	9.35m 1.71m 18.57m		Density I Viscosity Fluid Loss	1360 65s/l	1360 65s/	22:00 3184.91m 22:45 3214.16m 23:45 3243.41m	89 89.6 88.8	123.3 122.5 122.8			23:30		0.25 7 0.25 21A	RIG S	SERVICE /F	UNCTION I	LOWER PIF	PE RAMS/ 4 S RE IN 103 SECO	NDS. CREW R	CLOSE ESPONDED WELL. TE MUSTER POINT.
	Jets	7.9 7.9 11.1 11.1		.9 1) 1)-	(/O HWDP	13	61 4 73	0.94m 9.36m	Location	pH	SHAKERS	SHAKERS	SOLIDS								_	DOWN RO			ANDTIEADED	OAFFRORK	IE WIGGTER FOINT.
Dep Total D	h Out (m) oth In (m) rilled (m)		245i 79	68 19 19 12	(/O SLIDE REAM (/O	13	60 63 34 68	0.96m 1.41m 0.94m	CIRCUL	PVT ATION			Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density										
Cumulative Er	ntry Date	2016/01/31	18.0	1	4.5 " DP (/O  ARS/ HYD N	MECH 13	3 74 3 62	48.75m 0.96m 5.19m	Pump# Type 1 COMBI 2 COMBI	IN- 114	75 23	3500 3.5 3500 3.5	MUD MA	TERIAL Product	S ADDE		unt Type										
TI TO		Gag OD	ic		Drill Pipe Drill Pipe Kelly D	Si Down	ngles	643.50m 0.00m -1.41m	Remarks:				BARITE LIME OPTI-GLIDE	Judet			210 EACH 10 EACH 1 EACH										
LOC BRG	To	Reason Pulle tal Run (m/h		_	Weight of S	String		0kdaN 76kdaN					OPTI-WET GILSONITE CLAYTON				2 EACH 5 EACH 3 EACH	Remar			_						GER LINE HOOK
$\overline{}$	To D	R-C RPN	M WOB 55 11kdah	Hol	LE CON e Drag U e at Bottom	Up 7	Down	15 00.00Nm		ressure St	rokes/min	Depth	Bentone 920 Boiler				1 EACH	FUNCTION	ONED UP		TRAVEL	LIMITS & E-			ID DEGASSE		D LINE, ,MANUAL CHOKE
					on Bottom			0.00m	2 84	00 @ 0	74 @ @ @	3198	Boiler #	Hours Ru	ın p	DH 5	Stack Temp 260	SAF DERRIC		IECTIONS	Safety <sup>*</sup>	Торіс			ME	HL 90.00kdaN	MACP 2451kPa
V. 1.3																											

FRONT PAGE SUMMARY	Tour Sheet Serial Number 0Y52529_20160202_1A	Pason	ear Month Day 2016 02 02	DAILY CHECKS  1) Daily Walk Around Inspection 2) Detailed Inspection - Weekly (Using Check List)	OP RM SDK_DA
Well Name   31526   ARCRES HZ SUNRISE K2-25-78-18   Operator	Surface Location 02-25-078-18W6 Contractor	Prov   Loc Type   Unique Well     BC		H2S Signs Posted if Required     Well Licence & Stick Diagram Posted     Flare Lines Staked     BOP Drills Performed	SDK DA SDK DA SDK DA
IRC RESOURCES  Dperator's AFE  6DRL0015	PRECISION DRILLING, DIV OF PDCLP Contractor's Job No 76	529 HORIZ Spud Date Time 2016/01/21 19:00		Visually Inspected BOPs - Flare Lines & Degasser Lin     Rig Site Health & Safety Meeting (one/crew/mont 2) CAODC Rig Safety Inspection Checklist (one/rig/n	<sub>th) DA</sub> pason )
Signature of Operator Representative Sheldon Kashuba	Signature of Contractor's Rig Manager DAVE ACHESON	Rig Release Date Time		Mast Inspection before Raising or Lowering     Crown Saver Checked     Motor Kills Checked	DA Pason
CODE 1 2 3 4 5 6  Rig Drill Reaming Coring Cond Mud Trips	7         8         9         10         11         12           Rig         Repair         Cut Off         Dev         Wireline         Run Csg	13         14         15         16         17           Wait On Nipple Up Test Drillstem         Plug	18 19 2 Squeeze Fishing D	ir Safety Tear Waiting Rig	25   Selly Budfiring   Up ruel   190   25   25   3353.00   FUEL @ 08:00 HOURS   100
Up Actual Realising Colling & Circ Imps  Tour 1 5.75 CIRC Imps  Tour 2 8.25	ervice         Rig         Drilg Line         Survey         Logs         & Cemen           0.25	t Cement BOP BOP Test Back	Cement	nrk Meeting Down On Watch 1.75 0.25 3.25 0.25	8.00 Time 06:00 Femp 06:00 12:
Tour 3 3.00 Total 17.00	0.25 0.75			0.75 5.75 0.50	4.00 Wind Direction Wind Strength CALM  24.00 Read Condition FAIR
TOUR 1 SIGNATURE OF DRILLER	JOSH GILBER	Т		START TIME 00:	00:00 END TIME 08:00
BITS DRILLING ASSEM  Bit Number   8 No Component   OD	Length MUD RECORD  Length Mud Type Water Oil x	DEVIATION SURVEYS Time   Depth   Deviation   Direction   Typ	TIME L	<del></del>	of Operations in Sequence & Remarks
Size         159         1 BIT         150           IADC Code         1 MOTOR         128	0 0.20m Other 02:00 06:0	T 02:45h331 16m 90.7 123.8	00:00 05: 05:45 07:	30 1.7520A DIRECTIONAL SURVEYS	SECTION FROM 3257M-3506m CONNECTIONS/TOOLFACE ORIENTATION
Manufacturer         REED         1 MONEL         121           Type         SK413M-B1G         1 GAP SUB         121           Serial No         A210812         2 MONEL         118	8 9.35m Density 1370 140 8 1.71m Funnel Viscosity 65s/l 66s 9 18.57m Fluid Loss	0 03:30 3360.41m 88.9 123.4 04:30 3389.66m 91.2 122.6	07:30 07: 07:45 08:	<del>                                     </del>	I ANNULAR/ 22 SECONDS TO CLOSE V CHANGE MEETING
Jets 7.9 7.9 7.9 7.9 1,00 134 11.1 11.1 1HWDP 114	1 0.94m pH Location of Sample SHAKERS SHAKERS	05:303418.91m 89.2 122.1 06:153448.16m 90.5 121 SOLIDS CONTROL			
Depth Out (m)   1 k/O   134	8 0.96m Depth PVT PVT CIRCULATION	Equipment   Hours   Intake   Over Flow     Name   Run   Density   Density     CENTRIFUGE   2   1370   1310	Under Flow Density 1680		
	0.94m   CIRCULATION     48.75m   Pump#   Type   Liner Size   SPM   Pressure Hours Ru   4   0.96m   1 COMBINED   114   74   23500		1000		
Entry Date 2016/01/31 1 JARS/ HYD MECH 133  CUTTING STRUCTURE 30 Drill Pipe Star	2 5.19m 2 COMBINED 114 74 23500 887.25m	MUD MATERIALS ADDED  Product Amou	nt Type		
T1	4.00m Remarks: 3506.16m	CLAYTONE	3 EACH		
MDC         Reason Pulled         Total           LOC         Total Run (m/hr)         Weight of DC           BRG         Weight of String	0kdaN 76kdaN		Remarks: II	NSPECT FLOOR EQUIPMENT, TONG, BACK UP S	SLINGS,DEAD MAN,CAT HEAD,ST-80,TUGGER LINE HOOK
	REDUCED PUMP SPEED		FUNCTIONED	UPPER & LOWER TRAVEL LIMITS & E- STOPS,CI	NS,FLARE AND DEGASSER LINES,LOAD LINE, ROWN SAVER,IGNITER AND PASON CHOKE,MANUAL CHOKE
3198m 3506m DRILL 50 10kdaN Torque at Bottom Fill on Bottom	6500.00Nm	Boller # Hours Rull ph 5	SAFETY	ABBING VALVE/INSIDE BOP  Safety Topic	MEHL MACP
	@ @	396 8 10.5	310 DERRICK CO	ONNECTIONS	90.00kdaN 2451kP
TOUR 2 SIGNATURE OF DRILLER DRILLING ASSEM	SYLVAIN ARSENAUL	T DEVIATION SURVEYS	TIME L	START TIME 08:	00 END TIME 20:00
Bit Number   8		Time   Depth   Deviation   Direction   Typ		Elapsed Code Details	of Operations in Sequence & Remarks
IADC Code         1MOTOR         128           Manufacturer         REED         1MONEL         121	9.09m Time 08:30 11:0 B 9.35m Density 1390 138	00:45 2505:40=  00:0 122:5	16:15 19: 19:30 19:	30 3.25 20A DIRECTIONAL SURVEYS	CONNECTION TIME R PIPE RAM 4 SEC TO CLOSE
	8 1.71m Funnel Viscosity 9 18.57m Fluid Loss 1 0.94m PH	11:45 3623.66m 89.8 123.2 12:30 3652.91m 91.1 122.7	19:45 20:	00 0.25 21 CREW CHANGE MEETIN	G
	1 0.94m PH SHAKERS SHAKERS SHAKERS 0.96m Depth 3550m 3600	GOLING GONTHOL	Under Flow		
Depth In (m)         2458         1 SLIDE REAMER         150           Total Drilled (m)         1342         1X/O         134		Name Run Density Density  CENTRIFUGE 2 1390 1350	Density 1900 1900		
Hrs Run Today         8.25         15.4.5 ° DP         114           Cumulative Hrs Run         32.00         1x/O         133           Entry Date         2016/01/31         JARS/ HYD         133		MUD MATERIALS ADDED	1900		
CUTTING STRUCTURE	1199.25m	Product Amou	nt Type 194 EACH 2 EACH		
T0	-14.16m Remarks: 3800.00m	OPTI-WET	1 EACH 10 EACH		
LOC	0kdaN 76kdaN				SLINGS,DEAD MAN,CAT HEAD,ST-80,TUGGER LINE HOOK
From         To         D-R-C         RPM         WOB         Hole Drag         Up         8           3506m         3800m         DRILL         55         11kdaN         Torque at Bottom	7200.00Nm Pump No. Pressure Strokes/min Depth	Boiler	INSPECT ST	ABBING VALVE/INSIDE BOP	ROWN SAVER,IGNITER AND PASON CHOKE,MANUAL CHOKE
Fill on Bottom	0.00m		SAFETY 310	Safety Topic m drop inspection	MEHL MACP 84.00kdaN 2300kP.
TOUR 3 SIGNATURE OF DRILLER	JOSH GILBER		,	START TIME 20:	
BITS DRILLING ASSEN Bit Number 8 No Component OD	BLY MUD RECORD  Length Mud Type Water 0ii x	DEVIATION SURVEYS Time Depth Deviation Direction Typ	TIME L		of Operations in Sequence & Remarks
No   Component   OD	0 0.20m Other	20:00 3799.16m 88.6 125.2 0 20:45 3828.41m 90.3 124.5	20:00 23:	00 3.002 DRILL 159mm LATERAL	SECTION FROM 3800M- 3892M.  N LOWER PIPE RAMS/ 4 SECONDS TO CLOSE
Type SK413M-B1G 1GAP SUB 121	8 9.35m Density 1380 138 8 1.71m Funnel Viscosity	0 22:00 3857.66m 91.2 124.3 23:00 3875m 89.9 125.1	23:15 24:	00 0.75 20A DIRECTIONAL SURVEYS	CONNECTIONS
Serial No         A210812         2MONEL         118           Jets         7.9         7.9         7.9         1X/O         134           11.1         11.1         1HWDP         114	9 18.57m Fluid Loss	S SOLIDS CONTROL			
Depth Out (m) 1X/O 134	B 0.96m Depth 3 1.41m PVT	Equipment Hours Intake Over Flow Name Run Density Density	Under Flow Density		
Hrs Run Today 3.00 15 4.5 " DP 114	8 0.94m CIRCULATION 7 48.75m Pump# Type Liner Size SPM Pressure Hours Ru	CENTRIFUGE 2 1380 1290	1670		
	2 5.19m 2 COMBIN- 114 70 23500		nt Type		
T1   Gage   q Drill Pipe Sing   T0   ODC   Kelly Down		LIME	10 EACH		
MDC         Reason Pulled         Total           LOC         Total Run (m/hr)         Weight of DC           BRG         Weight of String	3892.00m 0kdaN 76kdaN		Remarke: II	NSPECT FLOOR EQUIPMENT TONG BACK UP S	SLINGS,DEAD MAN,CAT HEAD,ST-80,TUGGER LINE HOOK
Weight of Saling   Weight of Saling   Weight of Saling     Weight of S	REDUCED PUMP SPEED		INSPECT CA FUNCTIONED	TWALK, PIPE RACKS, PIPE RACK PINS/CHAII UPPER & LOWER TRAVEL LIMITS & E-STOPS, CI	NS,FLARE AND DEGASSER LINES,LOAD LINE, ROWN SAVER,IGNITER AND PASON CHOKE,MANUAL CHOKE
3800m 3892m DRILL 45 12kdaN Torque at Bottom Fill on Bottom	7500.00Nm Pump No. Pressure Strokes/min Depth 0.00m 1 8500 @ 72 @ 387	Boiler # Hours Run pH Si	SAFETY		MEHL MACP
<i>L</i> 1.3		396 4 10.5	310 DERRICK CO	Safety Topic DNNECTIONS	90.00kdaN 2450kPs
					1 of (

	PAGE SUMMARY	Tour Sheet Serial Number py52529_20160203_1A	Vendor Software Version Pason	2016 02	nth Day 2 03 DAILY CHE 1) Daily Walk Around I 2) Detailed Inspection	CKS OP RM Inspection SDK DA  - Weekly (Using Check List)
License No Well Name 31526 ARCRES HZ SUNRISE K2-25 Operator	5-78-18	Surface Location 02-25-078-18W6 Contractor		Unique Well Id 102/08-19-078-17W6/00	3) H2S Signs Posted ii 4) Well Licence & Stic 5) Flare Lines Staked 6) BOP Drills Performe	k Diagram Posted SDK DA SDK DA
ARC RESOURCES Operator's AFE 16DRL0015		PRECISION DRILLING, DIV OF PDCLP Contractor's Job No 76	529 HORIZ Spud Date Ti 2016/01/21 19		7) Visually Inspected BC 1) Rig Site Health & Si	PPS - Flare Lines & Degasser Lines SDK   DA    afety Meeting (one/crew/month)   DA    rspection Checklist (one/rig/month)
Signature of Operator Representative Sheldon Kashuba		Signature of Contractor's Rig Manager DAVE ACHESON	Rig Release I		3) Mast Inspection bet 4) Crown Saver Check 5) Motor Kills Checked	fore Raising or Lowering DA Pason
Rig Drill Reaming (	4 5 6 7  Coring Cond Mud Trips Rig		<b>13 14 15 16</b> Wait On Nipple Up Test Drillstem	n Plug Squeeze Eig	obing Dir Safety To	22 23 24 25 FUEL ® 08:00 HOURS
7 Tour 1 5.50 Tour 2 7.75	8 Circ 11115 Service 0.2 0.2	<del> </del>	Cement BOP BOP Test	Back Cement 118	2.00 0.25 3.75 0.25	Name
Tour 3 3.25 Total 16.50	0.2	5			0.50 6.25 0.50	4.00 Wind Direction Wind Strength  24.00 Read Condition  24.00 FAIR
TOUR 1 SIGNATURE	OF DRILLER	JOSH GILBERT	Ţ		START 1	TIME 00:00 END TIME 08:00
BITS Bit Number   8	DRILLING ASSEMBLY  No Component OD ID Le	ngth MUD RECORD  Mud Type Water Oil x	DEVIATION SURVEYS Time   Depth   Deviation   Direction		TIME LOG From To Elapsed Code	Details of Operations in Sequence & Remarks
Size 159 IADC Code	1 MOTOR 128 0	0.20m Other	00:30 3903m 88.5 123.9 00:45 3916.16m 88 124.2 01:15 3929m 88.3 125.6		05:30 07:30 2.0020A	DRILL 159mm LATERAL SECTION FROM 3892M- 4079M DIRECTIONAL SURVEYS/CONNECTIONS
Manufacturer   REED     SK413M-B1G   Serial No   A210812	1 GAP SUB 121 68	9.35m Density 1360 1370 1.71m Funnel Viscosity 8.57m Fluid Loss	01:453945.41m 89.3 125.5 02:30 3961m 88.7 124.5			RIG SERVICE / FUNCTION ANNULAR/ 22 SECONDS TO CLOSE SAFETY MEETING/CREW CHANGE MEETING
Jets 7.9 7.9 7.9 7.9 11.1 11.1	1 X/O 134 61	0.94m pH SHAKERS SHAKERS	03:153974.66m 88.1 122.8 03:30 3988m 87.6 123.9 SOLIDS CONTROL			
Depth Out (m)	1 SLIDE REAMER 150 63	0.96m Depth 1.41m PVT 0.94m CIRCULATION	Equipment Hours Intake Name Run Density  CENTRIFUGE 2 1370	Over Flow Density Under Flow Density Density 1280 1680		
Hrs Run Today 5.50 Cumulative Hrs Run 40.50	15 4.5 " DP 114 97 4	0.94m CIRCULATION  8.75m Pump# Type Liner Size SPM Pressure Hours Run  0.96m 1 COMBINED 114 72 23500 7				
Entry Date 2016/01/31 CUTTING STRUCTURE	50 Drill Pipe Stands 146	5.19m 2COMBINED 114 72 23500 7 2.50m	MUD MATERIALS ADDE Product BARITE	Amount Type 210 EACH		
T1   Gage   T0   ODC   MDC   Reason Pulled	Kelly Down	0.00m	OPTI-GLIDE OPTI-WET	1 EACH		
LOC Total Run (m/hr)	Weight of DC	OkdaN SkdaN			Remarks: INSPECT FLOOR EQU	IPMENT, TONG, BACK UP SLINGS, DEAD MAN, CAT HEAD, ST-80, TUGGER LINE HOOK
METRES DRILLED           From         To         D-R-C         RPM         W0B	HOLE CONDITION Hole Drag Up 12 Down		1	1 1 1	FUNCTIONED UPPER & LOWER TRA	S,PIPE RACK PINS/CHAINS,FLARE AND DEGASSER LINES,LOAD LINE, AVEL LIMITS & E- STOPS,CROWN SAVER,IGNITER AND PASON CHOKE,MANUAL CHOKE
3892m 4079m DRILL 50 10kdaN		00Nm         Pump No.         Pressure         Strokes/min         Depth           0.00m         1         7600         2         72         2         4017           0.00m         0         0         0         0         0         0	Boller #   Hours Rull   p	on Stack Terrip	INSPECT STABBING VALVE/INSI SAFETY Sa	DE BOP  Ifety Topic MEHL MACP
		@ @	396 8	10.5 310 C	DERRICK CONNECTIONS	90.00kdaN 2456kPa
	OF DRILLER DRILLING ASSEMBLY	SYLVAIN ARSENAULT	DEVIATION SURVEYS		START 1	O8:00 END TIME 20:00
BITS  Bit Number 8  Size 159	No Component OD ID Le		Time   Depth   Deviation   Direction	_	From To Elapsed Code	Details of Operations in Sequence & Remarks  DRILL 159MM HOLE FROM 4079M TO 4375M.
IADC Code REED	1MOTOR 128 0 1 1MONEL 121 68	9.09m Time 11:00 15:00 9.35m Density 1360 1350	08:45 4106.5m 89.6 122.5 09:15 4120.91m 89.9 122.2 09:30 4135.4m 90.2 122.6		15:45 19:30 3.7520A I	DIRECTIONAL SURVEYS, CONNECTION TIME RIG SERVICE FCT UPPER PIPE RAM 4 SEC TO CLOSE
Type SK413M-B1G  Serial No A210812  Jets 7.9 7.9 7.9 7.9	2MONEL 118 69 1	1.71m Funnel Viscosity  8.57m Fluid Loss  9.94m PH	10:00 4150.16m 90.4 122.5 10:30 4165.2m 91.1 121		19:45 20:00 0.25 21	SAFETY MEETING
11.1 11.1 Depth Out (m)	1HWDP 114 73	0.94m	10:45   4179.41m   91.5   120.8	Over Flow Under Flow		
Depth In (m)   2458     Total Drilled (m)   1917	1X/O 134 68	1.41m PVT 0.94m CIRCULATION	Name Run Density CENTRIFUGE 2 1360	Density Density 1340 1900		
Hrs Run Today 8.75  Cumulative Hrs Run 49.25  Entry Date 2016/01/31	1X/O 133 74	8.75m         Pump#         Type         Liner Size         SPM         Pressure         Hours Run           0.96m         1         114         72         30000         12           5.19m         2         114         72         30000         12	MUD MATERIALS ADDE	ĒD		
CUTTING STRUCTURE TI Gage	61 Drill Pipe Stands 178	4.25m 2.000m	Product OPTI-GLIDE OPTI-MUL	Amount Type 3 EACH 1 EACH		
TO ODC MDC Reason Pulled	Total 4379	4.16m Remarks:	OPTI-WET NDFT 301/302 -BEADS)	1 EACH 20 EACH		
LOC Total Run (m/hr) BRG METRES DRILLED		SkdaN SkdaN		I I I⊢		IPMENT, TONG, BACK UP SLINGS, DEAD MAN, CAT HEAD, ST-80, TUGGER LINE HOOK S, PIPE RACK PINS/CHAINS, FLARE AND DEGASSER LINES, LOAD LINE,
From         To         D-R-C         RPM         WOB           4079m         4375m         DRILL         60         10kdaN	Hole Drag Up 12 Down	.00Nm Pump No. Pressure Strokes/min Depth	Boiler	F	FUNCTIONED UPPER & LOWER TRAINSPECT STABBING VALVE/INSI	AVEL LIMITS & E- STOPS,CROWN SAVER,IGNITER AND PASON CHOKE,MANUAL CHOKE
	Fill on Bottom	0.00m 2 7400 @ 72 @ 4250		10.5 310	SAFETY Sa RIG SERVICE	rfety Topic MEHL MACP  82.00kdaN 2501kPa
TOUR 3 SIGNATURE	OF DRILLER	JOSH GILBER1			START 1	
BITS	DRILLING ASSEMBLY	MUD RECORD	DEVIATION SURVEYS Time   Depth   Deviation   Direction		TIME LOG	
Bit Number   8		ngth         Mud Type         Water         Oil Ix           0.20m         Other           9.09m         Time         20:30         23:45	20:15 4384.16m 88.3 122.1	Туре		Details of Operations in Sequence & Remarks  DRILL 159mm LATERAL SECTION FROM 4375M- 4430M.  DIRECTIONAL SURVEYS/CONNECTIONS
Manufacturer REED Type SK413M-B1G	1MONEL 121 68 1GAP SUB 121 68	9.35m Density 1360 1370 1.71m Funnel Viscosity 60s/l 60s/l				RIG SERVICE/ FUNCTION LOWER PIPE RAMS/ 4 SECONDS TO CLOSE
Serial No A210812  Jets 7.9 7.9 7.9 7.9  11.1 11.1	1X/O 134 61	8.57m Fluid Loss  0.94m pH  9.36m Location of Sample SHAKERS SHAKERS				
Depth Out (m)  Depth In (m)  2458	1X/O 134 68	0.96m Depth PVT		Over Flow Under Flow Density		
Total Drilled (m) 1972 Hrs Run Today 3.25	15 4.5 " DP 114 97 4	0.94m CIRCULATION  8.75m Pump# Type Liner Size SPM Pressure Hours Run				
Cumulative Hrs Run 52.50 Entry Date 2016/01/31 CUTTING STRUCTURE		0.96m 120MBIN- 114 70 23500 4 5.19m 220MBIN- 114 70 23500 4	MUD MATERIALS ADDE	Amount Type		
TI Gage TO ODC	d Drill Pipe Singles	0.00m   Panarks:	BARITE	32 EACH		
MDC Reason Pulled LOC Total Run (m/hr)	Weight of DC	0.00m 0kdaN			Demorker INSPECT 5: 000 550	IDMENT TONG DACK IID GIINGS DEAD HAN CAT HEAD AT SO THOUGH INTO
BRG	Weight of String	75 REDUCED PUMP SPEED			INSPECT CATWALK, PIPE RACKS	IPMENT, TONG, BACK UP SLINGS, DEAD MAN, CAT HEAD, ST-80, TUGGER LINE HOOK S, PIPE RACK PINS/CHAINS, FLARE AND DEGASSER LINES, LOAD LINE, AVEL LIMITS & E-STOPS, CROWN SAVER, IGNITER AND PASON CHOKE, MANUAL CHOKE
4375m 4430m DRILL 45 12kdaN	Torque at Bottom 7500	0.00Nm Pump No. Pressure Strokes/min Depth 0.00m 1 8000 @ 72 @ 4418	Boiler  Boiler # Hours Run p		INSPECT STABBING VALVE/INSI SAFETY	DE BOP
V12			396 4	10.5 310	Sa DERRICK CONNECTIONS	Ifety Topic         MEHL         MACP           94.00kdaN         2451kPa
V. 1.3						1 of 7

License No	Well	Name	FRON	T PAC	E SUN	ЛМАRY	,		0Y5252	Sheet Seria 29_2016020 ce Location	04_1A	Vendor : Pason	Software V Prov	ersion Loc Type	Unique W	2016	Month [	04	DAILY C  1) Daily Walk An  2) Detailed Inspection  3) H2S Signs Po	ound Inspe ection - We	ection eekly (Usi	ing Check List)	OP RIN		CAG	DC
31526 Operator	ARCF		INRISE K2-2	5-78-18				ractor		78-18W6		Rig No	BC	DLS Well Type HORIZ		9-078-17W6/0		Entry	4) Well Licence 5) Flare Lines St 6) BOP Drills Pe	& Stick Dia aked formed	agram Pos	sted es & Degasser Lin	SDK MR			
Operator's AF 6DRL0015	E						Cont 76	ractor's Job	No			328		Spud Date 2016/01/21	19:00			_	1) Rig Site Healt	h & Safety afety Inspe	Meeting	(one/crew/mont	th)	P	asc	
Signature of ( Sheldon Kashu		Represen 2	ative 3	4	5	6		C RAYMON	ntractor's Rig Ma ID 9 10	11	12	13 14	15		se Date Time	18	19	4	4) Crown Saver 5) Motor Kills Ch	Checked	2:		MR MR		Pas Kelly Bushing 5.90	Op Fuel 2980.00
	Rig Up	Drill Actual	Reaming	Coring	Cond Mud & Circ	Trips	Rig F Service	epair Cu	it Off Dev g Line Survey	Wireline		Wait On Nipple Cement BOF	Up Tes	t Drillst	em Plug	Squeeze Cement	Fishing	Dir Work	Safety Meeting	Tear Down	Wait	ting Rig	Othor	TOTAL	FUEL @ 0	8:00 HOURS 88.00 Boiler 0.00
Tour 1 Tour 2 Tour 3		3.50			1.75 3.25 0.50	5 8.25	0.25 0.25											0.	75 0.25 0.25 0.25					8.00 12.00 4.00	CLEAR Wind Direction	06:00 -10.00
Total		3.50			5.50	12.75	0.75											0.	75 0.75					24.00		CALM
TOUR BITS	1	SIG	NATUR	_		ER ASSEI	MBLY	MUD	RECORD	JOS	SH GILBER	DEVIATION	N SUF	RVEYS			ТІМ	E LO	STAR G	T TIN	/IE	00:	00 3	ND TIM	E	08:00
Bit N	umber Size	3	15	9 1 BI		150	ID Length 0 0.20r	n	0	Water ther	Oil x	Time Depth	Deviation	Direction	1	уре	From 00:00	1	Elapsed Co 3.502	_	LL 159m		of Operations			
IAD Manuf	C Code acturer Type	REED SK413M-E	1G	1 M	OTOR ONEL AP SUB	128 121 121	0 9.09r 68 9.35r 68 1.71r		Density Innel Viscosity	03:00 1370 60s/l							03:30 04:15 04:30	04:30	0.75 20/ 0.25 7 1.75 5	RIG	SERVIC		ANNULAR/22		TO CLOSE	
Se	rial No Jets	7.9 7	A21081	2 2 M 9 1 X	ONEL O	118	69 18.57r 61 0.94r	n	Fluid Loss pH								06:1	5 06:30	0.2521 1.506B	SAF	ETY ME	ETING PRIOR	R TO TRIP OU		0 MIN FCS @	4490M/4204M.
Depth (	1 1	11.1 11	245	1 X/		114 134 MER 150	68 0.96r		ion of Sample Solution Depth PVT	SHAKERS		SOLIDS ( Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density	v									
Total Dril Hrs Rur	led (m)		203	2 1 X/	LIDE REAM O 4.5 " DP	134 114	68 0.94r	CIRC	ULATION	SPM Pres	ssure Hours Rui	name	Tiun	Density	Density	Density	$\vdash$									
	y Date	2016/01/3		1 JA	ARS/ HYD N	133 MECH 133		n 20	OMBINED 114 OMBINED 114		1000 E	MUD MA	IERIA Product			ount Type										
TI TO		Ga O	ge		Orill Pipe Orill Pipe Kelly D	Sin	nds 1872.00r gles 9.75r -6.66r						Troduct		Au	ount Type	$\vdash$									
MDC LOC	_	ason Pul I Run (m/			Weight o	Total	4490.00r 0kdal	n V																		
BRG From To			M WOB	НОІ		NDITIO	75kdal		JCED PUM	IP SPE	ED						INSPE	CT CATV	VALK,PIPE R.	ACKS,PII	PE RAC	K PINS/CHAIR	NS,FLARE AN	D DEGASSE	R LINES,LOA	GER LINE HOOK D LINE, MANUAL CHOKE
4430m 449	_	RILL	50 12kdař	Torque	at Bottom	op [_10_]	7500.00Nr 0.00r	Pump No	Pressure Str 8000 @	okes/min	Depth 4461	Boiler Boiler#	Hours F	tun	pH	Stack Temp	INSPE		BING VALVE							
									@	@		396		8	10.5	3	10	CK CON	NECTIONS	Safety	/ Topic				EHL 130.00kdaN	MACP 3109kPa
TOUR	2	SIG	NATUR	E OF	DRILLE	ER				SYLVAIN A	ARSENAUL"								STAR	T TIN	ΛE	08:	00 国	ND TIM	E	20:00
BITS Bit N	umber	3		No	Compone		ID Length			Water _	0il ×	Time Depth			1	уре	From	_	Elapsed Co	$\overline{}$			of Operations			
IAD Manuf	Size C Code acturer	REED	15	1M	OTOR ONEL	150 128 121	0 0.20n 0 9.09n 68 9.35n		Time Density	17:00 1400							08:00		1.75 6B 0.25 7	ACT	UAL=+	10.41M/3. DIF				CALC= 10.13M/3.
Se	Type rial No	SK413M-E	A21081	2 2M	AP SUB	121	68 1.71n 69 18.57n	41	rnnel Viscosity Fluid Loss								10:00	16:45	0.25 21 6.50 6A	SAF	ETY ME	ETING ON W	ASHING DOW ROM 2052M TO	/N STAND 2690REAM AI	NY DOG LEG IN	LATERAL SECTION
Depth (	Jets Out (m)	7.9 7 11.1 11	-	1	WDP	134 114 134	73 9.36n	Loca	pH sion of Sample so	SHAKERS 4490m		SOLIDS (	ONTR	OL Intake	Over Flow	Under Flow	16:45	20:00	3.25 5	CIR	CULATE	3 ВОТТОМ С	JP PRIOR TO	SPOT BEED	S AND TRIP	DUT
Depth Total Dril	In (m) led (m)		245	<del>.                                      </del>	LIDE REAM		63 1.41n	CIRC	PVT ULATION			Name CENTRIFUGE	Run	Density 2 140	Density	Density										
Hrs Rur Cumulative H	rs Run	2016/01/3	0.0	1X/	ARS/ HYD		97 48.75n 74 0.96n 62 5.19n	15	Type Liner Size INGLE 114 INGLE 114	SPM Pres 75 240 75 240	0000 10	MUD MA	TERIAL	S ADI	DED											
UTTING		UCTU Ga	ge	64 E	FCH Orill Pipe Orill Pipe	Sta	nds 1872.00n gles 9.75n		INGLE 114	73 240	7000 10	BARITE	Product			ount Type 50 EAC										
MDC LOC	_	0 ason Pul I Run (m/	ed		Kelly E	Total	-6.66n 4490.00n		5:								1									
BRG			")		Neight of S		0kdal 75kdal	N											_				SLINGS,DEAD I			GER LINE HOOK D LINE,
From To	D-F	R-C RP	M WOB	Torque	at Bottom	Up	Down		Pressure Str		Depth	Boiler					INSPE	CT STAB	PPER & LOWE BBING VALVE			& E- STOPS,CF	ROWN SAVER,I	IGNITER AND	PASON CHOK	E,MANUAL CHOKE
				Fill o	n Bottom			1	@	@ @	4480	Boiler #	Hours F	lun 12	pH 10.5	Stack Temp	10	DOWN S	STANDS	Safety	/ Topic				EHL 100.00kdaN	MACP 2451kPa
TOUR	3	SIG	NATUR	E OF	DRILLE	ER					SH GILBER								STAR	T TIN	ΛE	20:	00 国	ND TIM	E	24:00
BITS Bit N	umber	3		DRI No	LLING Compone	ASSEI ent OD	MBLY ID Length	MUD	RECORD Mud Type	Water _	0il ×	DEVIATION Time Depth				уре	TIM From	E LO	G Elapsed Co	ode		Details	of Operations	s in Sequenc	e & Remarks	
	Size C Code		15	1M	T OTOR	150 128	0 0.20	n	Time	20:00							20:00	20:30	0.505 0.2521	CIRC		ETING PRIOR	R TO TRIPPIN			
	Type rial No	REED SK413M-E	1G A21081	1G.	ONEL AP SUB ONEL	121 121 118	68 1.71	n Fi	Density Innel Viscosity Fluid Loss	1400 60s/l							20:45	23:45	3.00 6B 0.25 7	$\rightarrow$			M 4490M-2129 N LOWER PIP			4222M, 2306M CLOSE
	Jets	7.9 7 11.1 11	9 7.9 7.	9 1X/		134	61 0.94	<u> </u>	pH ion of Sample	SHAKERS		SOLIDS (	ONTR	OL												
Depth ( Depth Total Dril	In (m)		245		O LIDE REAM	134 MER 150		n	Depth PVT ULATION			Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density	v									
Hrs Rur Cumulative H	Today rs Run		56.0	15 1X/	4.5 " DP	114	97 48.75 74 0.96	n Pump#	Type Liner Size		SSURE Hours Rui															
Entr EUTTING TI		016/01/31 <b>UCTU</b> Ga		64	ARS/ HYD N Drill Pipe Drill Pipe		62 5.19 inds 1872.00 gles 9.75	n	INGLE 114	75 23	3500 1	MUD MA	Product			ount Type										
TO MDC		0 ason Pul	OC ed		Kelly D	Total	-6.66i 4490.00i	Remark	S:																	
LOC BRG		l Run (m/	nr)		Weight of S		0kda 75kda												_			_	SLINGS,DEAD I			GER LINE HOOK
From To		R-C RP	M WOB	Hole		Up	Down		Pressure Str	okes/min	Depth	Boiler					FUNCT	IONED UF		R TRAVEL	LLIMITS					E,MANUAL CHOKE
					n Bottom				@ @	@ @		Boiler #	Hours F	tun 4	pH 10.5	Stack Temp	10	ETY		Safety	/ Topic				EHL 405 00kdeN	MACP
<i>l.</i> 1.3				_						w		J[			ļ		JURIPPI	NG OUT							105.00kdaN	2451kPa

License 31		Well Na		FRON			SUMM	IARY	,			OY525: Surfa	Sheet Serial 29_2016020 ce Location 078-18W6		Ve Pas			rsion Loc Type DLS		ie Well Id	2016		05 1 2 3 4	DAILY C ) Daily Walk Aro ) Detailed Inspe ) H2S Signs Pos ) Well Licence 8	und Inspec ction - Wei ted if Requ Stick Diag	ction ekly (Using uired		SDK M	R R R	CA	<b>d</b> D	c
Operato 16DRL0	SOURCE or's AFE		present	ative					( ;	Contractor 76	N DRILL 's Job N	LING, DIV OF F lo actor's Rig Ma				Rig No 529	1	Well Type HORIZ Spud Date 2016/01/21 Rig Relea	19:00	Time		Re-E	ntry 6 7	) Flare Lines Sta ) BOP Drills Per ) Visually Inspect ) Rig Site Health ) CAODC Rig Sa ) Mast Inspectio	ormed ed BOPs - I & Safety I fety Inspec n before R	Meeting (or ction Check	ne/crew/month	n) onth)	R	pas		
	Kashuba		2	3	4		5	6	7	MARC RA	YMOND	10	11	12	13	14	15	16	5 1	17	18	19		) Crown Saver ( ) Motor Kills Ch		23	24	25	R	Kelly Bushin		Op Fuel 4842.00 HOURS
Tou	r 2		Drill ctual	Reaming	Coring		1.75	Trips 3.00	Rig Service 0.25	Repair Rig	Cut Drilg			Run Csg & Cement 1.75 10.00	Wait On Cement	Nipple U BOP	p Test BOP	Drillst Tes			Squeeze Cement	Fishing	Dir Work 1.2	0.25	Tear Down	Waitin On	g Rig Watch	Other	1	B.00 H Time	14526.00 06:00 It Conditions AR Virection	Boiler 0.00 Temp -1.00 Wind Strength
P Tour	tal						2.50 4.25	3.00	0.25			0.25		1.25 13.00									1.2					0.7	75 2	4.00 TN N Road 4.00 FAIR	Condition	CALM
TO! BITS	UR 1	<u> </u>	SIGI	NATURI			ILLER ING AS		MBLY	M	IUD F	RECORD	JOS	H GILBERT	DEVI	ATIOI	N SUR	VEYS				TIME	E LOC	STAR G	T TIM	E	00:0	00	END T	IME	08:0	00
		Size		159	⊣—	віт	mponent	150	0 0	.20m			ther	Oil x	Time De	epth D	eviation	Direction		Туре		From 00:00	02:15	Elapsed Co 2.25 6B	TRIP		HOLE FROM	M 2129M-5	60M. 10MI	ience & Rema		n/ 200M/ 0M
	IADC C Manufact	urer REI	ED H13M-B	1G	1	MOTO MONE GAP S	L	128 121 121	68 9	.09m .35m .71m	Funi	Time Density nel Viscosity	07:00 1400			$\mp$						02:15	02:30 02:45	0.2521 0.259A	SLIP/	CUT DRIL	LING PRIOR LING LINE. F TION CROW	ULL BLOC	K CALIBRA	6-4A TION/ CHECK	UPPER/LO\	WER STOPS
	Seria	Jets 7	.9 7.9	-	2 2 9 1	MONE X/O	L	118	69 18 61 0	.57m .94m		Fluid Loss pH												0.756B	TRIP	OUT OF F F = + 2.83	HOLE FROM S	560M-0M/ F	INAL TRIP	CALC= 17.72N	/3. ACTUAL	. = 20.55 M/3
ſ	Depth Out Depth In	(m)	.1 11.:	1 449i 245i	0 1	X/O SLIDE	REAMER	114 134 150	68 0	.96m .41m	Locatio	n of Sample   : Depth   PVT	SHAKERS		SOLII Equipr Nan	nent	Hours Run	Intake Density	Over Den		Inder Flow Density	03:30 03:45 05:00	03:45 05:00 05:15	0.2521 1.2520 0.257	DIREC	CTIONAL V	VORK/ LAY DO	OWN MOTO	R/ MONELS	LS/ COP 2-1 BREAK DOWN UT OF HOLE.		
F	tal Drilled Irs Run To	(m) oday		203	2 1	X/O 5 4.5 "		134 114	68 0 97 48	.94m C		LATION	SPM Pres	sure Hours Rur	CENTRIF		0		0	0	C			0.7525	CLEA	N ORGANI			MANIFOLD/0	HANGE SAVER	SUB/ PREP	FLOOR FOR
	ative Hrs Entry (	)ate 201			1	JARS/ Drill F	HYD MECI		-	.96m .19m	1 2	114	0	0 0	MUD	MAT	ERIAL Product	S ADI	DED	Amoun	t Type	06:00	06:30	0.5012A	RIG U				POWER TO	NGS/ ELEVATO	RS/ SIDE DO	OOR CERTS:
TI TO	1 3		Gaq OE	ge (	0 1	Drill F		Sing	gles 9	.75m	marks:				NEW WAS	SH					1 PL	06:30 06:45	06:45	0.2521 1.2512B	CRE	W CHAN	GE AND PLA 3-1 AND RU	N FORWA		NG		
MDC LOC BRG	CT S		on Pulle un (m/h		9		Tota eight of DO ht of String			.00m kdaN kdaN												Domori	o, HAZA	IRD ID -PROPAN NG, REINSTALL	E LINE FO	R FLARE S	STACK IGNITOR	R WAS LEAK	ING. CUT AN	INCH OFF OF H	OSE, CRIMPI	ED NEW
	RES D	D-R-C	_	M WOB			COND	ITIO			EDU	CED PUN	IP SPE	ED								INSPEC	T FLOO	NG, REINSTALL R EQUIPMEN ALK,PIPE RA	T,TONG	BACK U	P SLINGS,DI	EAD MAN,	CAT HEAD	ST-80,TUG	ER LINE H	юок
					11	ue at Bo I on Bo				Pur	np No.	Pressure Str	okes/min @ @	Depth	Boile: Boiler	#	Hours Ru	ın	pН		ick Temp	SAF		PER & LOWER	Safety		E- STOPS,CR	OWN SAVE	R,IGNITER	AND PASON O		UAL CHOKE
					_							@	@			396		8	1	0.5	310	TRIPPIN	IG OUT		Jaiety	ТОРІС				95.00kd		2248kPa
TO	UR 2	?	SIGI	NATURI	_		ILLER ING AS	_	MRIY	ΙM	IUD F	RECORD	SYLVAIN A	RSENAULT	DEVI	TIOI	N SUR	VEVS				TIME	E LOC	STAR	T TIM	E	08:0	00	END T	IME	20:	00
Dire	Bit Nun	nber Size			No		mponent		ID Len			Mud Type	Water ther	0il 🗴	Time De					Туре		From 08:00		Elapsed Co	$\overline{}$	114.3MM C				ience & Rem 66M,1985M KE		FULL AT ALL
	IADC C Manufact	_			E						Fun	Time Density nel Viscosity	13:00 1400										18:15	0.25 21	$\overline{}$		GE MEETING					
	Seria										i uiii	Fluid Loss pH				+						18:15	20:00	1.75 5	CON	DITION N	IUD & CIRCI	JLATE CA	SING PRIC	R TO CEME	4T	
[	Depth Out				E						Locatio	n of Sample : Depth PVT	SHAKERS		SOLIE Equipri	nent	ONTRO Hours Run	Intake Density	Over Den		Inder Flow Density											
	Depth In tal Drilled Irs Run To	(m)			F							LATION ype Liner Size	SPM Pres	sure Hours Rur	CENTRIF		0	Delisity	0	0	O											
	ative Hrs Entry (	Date	eriii	DE		Drill F	Pino	Sta	ndo		1SIN 2SIN	IGLE 114 IGLE 114		000 0 000 1	MUD	MAT	<b>ERIAL</b> Product	S ADI	DED	Amoun	t Type											
TI TO		JINO	Gaç OE	ge		Drill F		Sing		Re	marks:																					
MDC LOC BRG			on Pulle un (m/h				Tota eight of DO	c														Domost										
	RES D		ED RPN	M WOB	_		ht of String  COND  g Up	ITIO	N Down	R	EDU	CED PUN	IP SPE	ED								INSPEC	T CATW	PECT FLOOR I FALK, PIPE RA PER & LOWER	CKS,PIP	E RACK	PINS/CHAIN	IS,FLARE	AND DEG	SSER LINES	LOAD LIN	E,
					П .	ue at Bo I on Bo				Pur	np No.	Pressure Str	okes/min @ @	Depth	Boile:	#	Hours Ru	ın	pН		ick Temp	SAF		BING VALVE	Safety					MEHL		ЛАСР
					_							@	@			396		12	1	0.5	310	RUN CA	SING		Jaiety	ТОРІС				65.00kd		2248kPa
TO	UR 3	;	SIGI	NATURI			ILLER ING AS		MRIY	IM	IUD E	RECORD	JOS	H GILBER	DEVI	TIOI	N SUR	VEYS	_	_		TIME	E LOC	STAR	т тім	E	20:0	00	END T	IME	24:	00
	Bit Nun	nber Size			No		mponent				.05	Mud Type	Water	0il 🗴	Time De					Туре		From 20:00		Elapsed Co 2.50 5D	_	ULATE C		of Operation	ons in Seq	ience & Rem	arks	
	IADC C Manufact										Fun	Time Density nel Viscosity										22:30 22:45	22:45 23:30	0.25 21 0.75 12	Rig u	p cement		e test iron t	o 40mpa, F	ump 18.57m		
	Seria										i uiii	Fluid Loss pH				+									drop		setting ball, p			nigh vis slug, s s pill, pump 10		
[	Depth Out Depth In				L						Locatio	n of Sample Depth PVT			SOLII Equipr Nan	nent	Hours Run	Intake Density	Over Den		Inder Flow Density	23:30	24:00	0.50 120	mins,					re up to 16.5r to 23.3mpa		ge
	tal Drilled Irs Run To	(m)										LATION ype Liner Size	SPM Pres	sure Hours Rur	CENTRIF		0	Deligity	0	0	O				tool.							
	ative Hrs Entry (	Date	OT!	DE .	E	D.211	Din a	C:	n de		1SIN	IGLE 114	0 44	3 0	MUD	MAT	<b>ERIAL</b> Product	S ADI	DED	Amoun	t Type											
TI TO	TING S	JIKU.	Gaq 00	ge		Drill F		Sta Sing	$\overline{}$	Re	marks:			$\pm$						Silouli	1,500											
MDC LOC			on Pulle un (m/h			W	Tota eight of DO															D:		DECT 51 COS	Olive	NT TC	PACKLIT	I INICO TO	D W	THEADOT	THOSE	NE USS
BRG MI=T From	RES D	D-R-C		и WOB			ht of String  COND  Up		N Down	_ R	EDU	CED PUN	IP <u>SPE</u>	ED								INSPEC	T CATW	PECT FLOOR I FALK, PIPE RA PER & LOWER	CKS,PIP	E RACK	PINS/CHAIN	IS,FLARE	AND DEG	SSER LINES	LOAD LINI	E,
			F		Torq	ue at Bo I on Bo	ottom					Pressure Str	okes/min @	Depth	Boile:		Hours Ru	ın	pН	Sta	ick Temp		T STAB	BING VALVE	INSIDE E	BOP						
V. 1.3					}							@	@			396		4	1	0.5	310	CEMENT	TING		Safety	iohic				MEHL 100.00kd	_	AACP 3109kPa

License No Well Name	T PAGE SUMMARY	Tour Sheet Serial Number 0Y52529_20160206_1B Surface Location	Vendor Software Version Pason Prov Loc Type	2016 Unique Well Id	3) H2S Signs Pos	und Inspection ction - Weekly (Using Check List) ted if Required	OP RM SDK MR SDK MR CAGDC
31526 ARCRES HZ SUNRISE K2-2 Operator ARC RESOURCES Operator's AFE 16DRL0015	Con PRE Con 76	02-25-078-18W6 itractor ECISION DRILLING, DIV OF PDCLP tractor's Job No	BC DLS     Rig No   Well Type     HORIZ     Spud Dat   2016/01/2	te Time 1 19:00	Re-Entry 5) Flare Lines Sta 6) BOP Drills Perl 7) Visually Inspect 1) Rig Site Health 2) CAODC Rig Sa	ormed ed BOPs - Flare Lines & Degasser Lines & Safety Meeting (one/crew/month) fety Inspection Checklist (one/rig/mo	pason 📜
Signature of Operator Representative Sheldon Kashuba	MAF	nature of Contractor's Rig Manager RC RAYMOND	2016/02/0		4) Crown Saver ( 5) Motor Kills Che	ecked	MR Pason  Ketly Bushing   Op Fuel   5.90   2526.00
Right   Reaming   Reaming   Actual   Act		Repair   Cut Off   Dev   Wireline   Run Csg   & Cement   2.25	13   14   15   1	tem Plug Squeeze	19 20 21  Fishing Dir Work Meeting 0.50  0.50	22 23 24	25   5.90   2528.00   100
	E OF DRILLER	JOSH GILBERT	3.00			T TIME 00:00	
BITS Bit Number	DRILLING ASSEMBLY No Component OD ID Length	MUD RECORD  Mud Type Water 0 0il	DEVIATION SURVEYS		TIME LOG From To Elapsed Co	de Details o	of Operations in Sequence & Remarks
Size IADC Code		Other			00:00 01:15 1.255	pump 31.5m3 invert bottoms fill cement 25.4 tonne (31.70	s up, cement with 5.0m3 optiflush W/S-4 & MS-7, 0m3) Titanium 1500, pump tail cement 12 tonne
Manufacturer Type Serial No		Density Funnel Viscosity Fluid Loss			01:15 02:30 1.2512C		otiflush W/S-4 & MS-7, fill 24.06 TONNE (31.5m3) ment 12 tonne (8.7m3) GASTIGHT 1850, Displaced W/
Jets		pH Location of Sample	SOLIDS CONTROL		02:30 03:30 1.0012C	19.28m3 inhibited water, but had good steady returns to r	mp plug 13 mpa OFCP nsurface with 5.0m3 good cement returns to
Depth Out (m)  Depth In (m)  Total Drilled (m)		Depth PVT CIRCULATION	Equipment Hours Intake Name Run Densit		03:30 03:45 0.2521 03:45 06:45 3.0014B	SAFETY MEETING PRIOR	2:57HR.02/6/2016, job went very well with Trican TO NIPPLE DOWN/ COP 5-5 T UPPER/LOWER HCRS/ KILL LINES/FLOWLINE/FLOW T/ SUB
Hrs Run Today Cumulative Hrs Run		Pump#   Type   Liner Size   SPM   Pressure Hours Rur   1			06:45 07:00 0.2525	BEAMS SET CASING SLIPS/ SLIPS	
Entry Date  CUTTING STRUCTURE  TI Gage	Drill Pipe Stands Drill Pipe Singles	2 114 0 0 0	MUD MATERIALS AD Product	Amount Type	07:00 07:15 0.2521 07:15 08:00 0.7522	SAFETY MEETING/ CREW TEAR DOWN,FINISH CLEA	
TO ODC	Kelly Down Total	Remarks:					
LOC Total Run (m/hr) BRG METRES DRILLED	Weight of DC Weight of String HOLE CONDITION						INGS,DEAD MAN,CAT HEAD,ST-80,TUGGER LINE HOOK S,FLARE AND DEGASSER LINES,LOAD LINE,
From To D-R-C RPM WOB	Hole Drag Up Down	Pump No. Pressure Strokes/min Depth	Boiler		FUNCTIONED UPPER & LOWER INSPECT STABBING VALVE/	TRAVEL LIMITS & E- STOPS,CRO	S,FLAKE AND DEGASSER LINES,LOAD LINE, DWN SAVER,IGNITER AND PASON CHOKE,MANUAL CHOKE
	Fill on Bottom		Boiler # Hours Run	pH Stack Temp 10.5 310	SAFETY NIPPLE DOWN	Safety Topic	MEHL MACP 85.00kdaN 2109kPa
TOUR 2 SIGNATUR	E OF DRILLER	SYLVAIN ARSENAULT		I	-	T TIME 08:00	
BITS Bit Number	DRILLING ASSEMBLY  No Component OD ID Length	MUD RECORD	DEVIATION SURVEYS Time Depth Deviation Direction		TIME LOG From To Elapsed Co		of Operations in Sequence & Remarks
Size IADC Code	NO Component OD 1D Length	Other	J State Stat	Турс	08:00 14:00 6.00 22		II OPERATIONS IN SEQUENCE & REHEARS  IG / PREP FOR TRUCKS,RIG RELEASED @ 7:00 HRS ON
Manufacturer Type		Density Funnel Viscosity Fluid Loss					
Serial No  Jets		pH Location of Sample	SOLIDS CONTROL				
Depth Out (m) Depth In (m)		Depth PVT	Equipment Hours Intake Name Run Densit				
Total Drilled (m)  Hrs Run Today  Cumulative Hrs Run		Pump# Type Liner Size SPM Pressure Hours Rur   1					
Entry Date CUTTING STRUCTURE	Drill Pipe Stands	2 114 0 0 0	MUD MATERIALS AD Product	Amount Type			
TI	Drill Pipe Singles	Remarks:					
LOC Total Run (m/hr)	Weight of DC Weight of String						INGS,DEAD MAN,CAT HEAD,ST-80,TUGGER LINE HOOK
METRES DRILLED	HOLE CONDITION Hole Drag Up Down Torque at Bottom	REDUCED PUMP SPEED Pump No. Pressure Strokes/min Depth					S,FLARE AND DEGASSER LINES,LOAD LINE, DWN SAVER,IGNITER AND PASON CHOKE,MANUAL CHOKE
	Fill on Bottom	@ @	Boiler # Hours Run   396   6	pH Stack Temp	SAFETY	Safety Topic	MEHL MACP
TOUR 3 SIGNATUR	E OF DRILLER	MARC RAYMONE			TEAR OUT RIG/ WALK RIG	T TIME 20:00	15.00kdaN 0kPa
BITS	DRILLING ASSEMBLY	MUD RECORD	DEVIATION SURVEYS Time Depth Deviation Direction		TIME LOG		·
Bit Number Size IADC Code	No Component OD ID Length	Mud Type Water Oil Other Time	Time Deput Deviation Direction	Туре	From To Elapsed Co	de Details d	of Operations in Sequence & Remarks
Manufacturer Type		Density Funnel Viscosity					
Serial No  Jets		Fluid Loss pH Location of Sample	SOLIDS CONTROL				
Depth Out (m)  Depth In (m)		Depth PVT	Equipment Hours Intake Name Run Densit				
Total Drilled (m)  Hrs Run Today  Cumulative Hrs Run		Pump# Type Liner Size SPM Pressure Hours Rur   1					
Entry Date CUTTING STRUCTURE	Drill Pipe Stands	2 114 0 0 0	MUD MATERIALS AD Product	Amount Type			
TI	Drill Pipe Singles	Remarks:					
LOC Total Run (m/hr)	Weight of DC Weight of String				Remarks:		
METRES DRILLED	HOLE CONDITION Hole Drag Up Down Torque at Bottom	Pump No. Pressure Strokes/min Depth	Roilor				
	Fill on Bottom	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Boiler Boiler Hours Run	pH Stack Temp	SAFETY	Safety Topic	MEHL MACP
			n 1 1	1	0		1 1