License No 31525		ell Name NRISE HZ	FRON J2-25-78-18V		GE SUN	IMAR	Y			OY5252 Surfa	Sheet Seria 29_2016010 ce Location 078-18W6	13_2A	Ve Pas		Prov L	rsion oc Type	Unique We 102/09-19	2016	Month 01	03	H2S Signs	Around I spection Posted it ce & Stic	nspection - Weekly (Using C		OP RI		CAG	DC
Operator ARC RESOI Operator's a 16DRL0014 Signature o	AFE	or Represe	entative					Contrac 75 Signatu	SION DRILLING ctor's Job No ire of Contracto					Rig No 529	S		Date Time		Re-	Entry 6	6) BOP Drills 7) Visually Insp 1) Rig Site He 2) CAODC Rig	Performe pected BC ealth & Sa g Safety I ection be	Ps - Flare Lines & lafety Meeting (one nspection Checklistore Raising or Lov	/crew/month) st (one/rig/mon	th)	P	asc	
CODE	1	2	3	4	5	6	7	MARC 8	RAYMOND 9	10	11	12	13	14	1 5	016/01/20 · 16	7:00 17	18	19	20	5) Motor Kills	Checked	2 23	24	25		Kelly Bushing 5.90	Op Fuel 0.00 0.00 HOURS
Tour 1 Tour 2 Tour 3	Rig Up	Drill Actual	Reaming	Coring	Cond Mud & Circ	Trips	Rig Service	e Rep		Dev Survey	Wireline Logs	Run Csg & Cement	Wait On Cement	Nipple Up BOP	Test BOP	Drillster Test	n Plug Back	Squeeze Cement	Fishing	Dir Work	Safety Meetin	/ Te	ear Waiting On 2.00	Rig Watch	Other	2.00 4.00	Rin	50.00 Boiler 0.00 06:00 Temp -15.00 tions
Total																							6.00		<u> </u>	6.00	FAIR	n
TOUF BITS	(1	Sic	GNATUR		DRILLE		MBLY	,	MUD RE	CORD	MARC	RAYMONE	DEVI	ATION	SUR	VEYS			TIM	E LO		ART 1	IIME	00:00		ND TIMI	=	08:00
	t Numbe Siz	e		No	Compone	nt OD	ID L	ength	١	0	Water ther	Oil 🗌	Time D	epth De	viation [Direction	Ту	pe	From	То	Elapsed	Code		Details of	Operations	in Sequence	& Remarks	
	ADC Cod ufacture Typ	r		\blacksquare					Funnel V	Time Density iscosity				+					1									
	Serial N Jet	0								id Loss pH																		
	h Out (m pth In (m			\parallel					Location of	Depth PVT			SOLI Equipr Nan	nent	Hours Run	Intake Density	Over Flow Density	Under Flor Density	w									
Total D	rilled (m tun Toda	1)							CIRCULA Pump# Type		SPM Pres	sure Hours Rui																
Cumulative E	ntry Dat	е	IDE		Drill Pipe	C+	ando						MUD		RIAL	S ADD		ount Type										
TI TO		(Gage		Drill Pipe Kelly D	Sir	ngles		Remarks:										\blacksquare									
MDC LOC	Т	Reason Potal Run (n		3	Weight o	Total																						
BRG From			PM WOB		Weight of S LE CON le Drag	IDITIO	Down Down		REDUCE	D PUN	IP SPE	ED							Rema	rks:								
Tioni	10	7110 11	IIII WOD	Torqu	ue at Bottom on Bottom	, p	Down		Pump No. Pre			Depth	Boile:		Hours Ru	n	pH	Stack Temp	SAF	ETY								
										@	@		Bolici	"	TIOUIS TIU		pri	otdok Tomp				Sa	fety Topic			ME	HL	MACP
TOUF	₹2	SIC	GNATUR	E OF	DRILLE	R					MARC	RAYMONE									STA	\RT 1	IME	08:00	E	ND TIMI	=	20:00
BITS Bi	t Numbe			No No	Compone Compone				MUD RE	Aud Type	Water	Oil 🗌	Time D				Ту	pe	From	-	Elapsed	$\overline{}$				in Sequence		
	Siz ADC Cod ufacture	e		\parallel						Time Density	uici [18:0	20:00	2.00	22	TEAR DOWN R	G FOR SKILL	IN MORNI	NG,WALK KI	6	
	Typ Serial N	0							Funnel V Flu	id Loss				+					E									
Dent	Jet h Out (m			\parallel					Location of	pH Sample Depth			SOLI				0	Hartar Sta										
De	pth In (m Prilled (m	1)							CIRCULA	PVT			Equipr Nan		Hours Run	Intake Density	Density	Under Flor Density	w									
Cumulative		n							Pump# Type	Liner Size	SPM Pres	sure Hours Rui	MUD	MATE	DIAL	S ADD	ED											
CUTTIN	ntry Dat	RUCT	URE Gage		Drill Pipe Drill Pipe		ands						MOD		Product	3 ADD		ount Type										
TO MDC		Reason Po	ODC lilled		Kelly D				Remarks:																			
BRG		otal Run (n			Weight of S	tring												+	Rema	rks:								
		D-R-C R		Ho	DLE CON le Drag U ue at Bottom		Down [REDUCE Pump No. Pre			ED Depth																
					on Bottom					@	@		Boiler Boiler		Hours Ru	n	pH	Stack Temp	SAF	ETY		Sa	fety Topic			ME	HL	MACP
TOUF	2 2	CI(CNATUE	_ E 05	DRILLE	:D		L		@	@										STA.	DT 1	TIME	20:00	, -	ND TIMI		24:00
BITS			SIVATOR	DF	RILLING	ASSE			MUD RE			RAYMONI	DEVI							E LO	G		111/12		1			24.00
	t Numbe Siz ADC Cod	e		No	Compone	nt OD	ID L	ength			Water ther	Oil 📙	Time D	epth De	viation E	Direction	Ty	pe	20:0	_	Elapsed 4.00	$\overline{}$	TEAR DOWN R			in Sequence		
	ufacture Typ	r		H					Funnel V	Density				\pm					\blacksquare									
	Serial N Jet									pH																		
	h Out (m pth In (m								Location of	Depth PVT			SOLI Equipr Nan		Hours Run	Intake Density	Over Flow Density	Under Flor Density										
Total D Hrs P	rilled (m lun Toda	n) y							CIRCULA Pump# Type		SPM Pres	sure Hours Rui																
	ntry Dat	е	UDE		Daill Ding		anda						MUD		RIAL Product	S ADD		ount Type										
TI TO	9	0	Gage ODC		Drill Pipe Drill Pipe Kelly D	Sir	ngles		Remarks:										\blacksquare									
MDC LOC	Т	Reason Potal Run (n	ulled]	Weight o	Total of DC											+	\mp										
BRG From			PM WOB		Weight of S LE CON le Drag		Down		REDUCE	D PUN	IP SPE	ED						\pm	Rema	rks:								
				Torqu	ue at Bottom on Bottom	***	, 50411		Pump No. Pre	ssure Str	okes/min @	Depth	Boile:		Hours Ru	n L	pH	Stack Temp	SAF	ETY								
- 1	- 1	1						'	1	@	@		1	_								Sa	fety Topic			ME	ul lu	MACP

Licens		Well Na		FRON		GE SUMI	//ARY	1			OY525 Surfa	Sheet Seria 29_2016010 ice Location 078-18W6	04_1A	V Pa	son		ersion Loc Type DLS		e Well Id	016		04 1 2 3	DAILY () Daily Walk A) Detailed Ins) H2S Signs P) Well Licence	round Inspe bection - We osted if Req	ction eekly (Usin _! juired		SDK N SDK N SDK N SDK N	MR MR MR.	CA	d D	
Operat ARC RE	or ESOURC or's AFE							F	Contracto		LING, DIV OF				Rig No 529		Well Type HORIZ Spud Date 2016/01/04	Time			Re-E	ntry 56 7 1 2) Flare Lines S) BOP Drills Po) Visually Inspe) Rig Site Hea) CAODC Rig S	Staked erformed cted BOPs - lth & Safety Safety Inspe	Flare Lines Meeting (oction Chec	s & Degasser Li one/crew/mor cklist (one/rig/	nes	AR.	pas	ion	>
Sheldor	n Kashub							N	MARC RA	AYMOND						2	Rig Relea: 2016/01/20	17:00				4) Mast Inspec) Crown Save) Motor Kills C	Checked hecked			<u> </u>	AR.	Kelly Bushin	Pason	iel
COD So Tou	r1	lig Jp #	Drill Actual	Reaming	4 Coring	Cond Mud & Circ	Trips	Rig Service	Repai Rig	ir Cut Drilg	Off Dev	Wireline Logs	Run Csg & Cement	Wait On Cement	14 Nipple U BOP	Test BOP	Drillst	em Pli	ug S	queeze ement	19 Fishing	Dir Work	Safety Meeting	Tear Down	Waitii On	ng Rig	Othor		AL Rig 8.00 H Time	@ 08:00 H	
Tou Tou Tou	r 3	7.00	1.00			0.25	0.75										+					2.2 1.7 4.0	5		1 8	B.00	+		2.00 CLE 4.00 N Road 4.00 A Road 4.00 A Road	AR Direction Wind : CALI	Strength M
TO	UR 1				E OF	DRILLEF	_					MARC	RAYMONE											RT TIM		, 00	0:00	END 1		08:00	
BITS	Bit Nu	mber			DRI No	LLING A Component	_	MBLY ID Len		MUD F	RECORD Mud Type	Water _	Oil	DEVI			VEYS Direction		Туре		TIM From	E LO	Elapsed (ode	'	Detail	s of Operat	ions in Seq	uence & Rem	arks	
	IADC		I						3		Time	Other			+						00:00	08:00	8.0023	B WAI	TING ON	DAYLIGHT					
	Manufac Seria	Туре							4	Funi	Density nel Viscosity Fluid Loss													+							
		Jets							3	Locatio	pH n of Sample			SOLI	DS C	ONTR	OL														
	Depth Ou Depth I Ital Drille	n (m)							_	CIRCU	Depth PVT			Equipi Nar		Hours Run	Intake Density	Over F Dens		nder Flow Density											
ŀ	Hrs Run T lative Hrs	oday							_		ype Liner Size	SPM Pres	ssure Hours Rui	1																	
CUT	Entry FING	Date STRU	CTU			Orill Pipe	Sta		#					MUD		Product	S ADI		Amount	Туре				+							
TO MDC		Reas	0 son Pull	DC		Kelly Dov	vn	9100	R	Remarks:																					
BRG	DES	Total F	Run (m/	'hr)		Weight of E Weight of Stri	ng	N													Remark	KS:									
From	_	D-R-C	_	M WOB	Hole	Drag Up		Down			Pressure St		ED Depth	Boile	_																
						n Bottom			7		@ @	@ @		Boiler		Hours R	un 8	рН	Sta	ck Temp 300	SAF	ETY		Safety	Торіс				MEHL	MAC	;P
TO	UR 2	,	SIG	NATUR	E OF	DRILLEF					l e l	SYLVAIN A	DSENAIII.										STAI	RT TIN	ΛΕ.	0.6	3:00	END T	IME	20:00	
BITS	;				DRI	LLING A	SSEI			MUD F	RECORD						VEYS Direction		Tune			E LO	3								
	Bit Nui	Size	Т	27	-	Component IT IUD MOTOR	200 168		26m 56m			Water x Other 17:30	011 🔲	17:45 3 18:15 5	30.6m 58.7m	0.4 0.6	18.4 253.1		Туре		08:00	_	0.50 21	SAFE		TING WITH C	REW AND T	RUCKERS		PARTY PERSO	
		7.	NG DRE		1X	O MDC	163 166	72 0. 71 9.	80m 23m	Funi	Density nel Viscosity	1000 30s/l		18:30 8 19:15 11	36.8m 14.8m	1.1	235.8 248				08:30		2.7514	MOVI SHAL BINS	E RIG , DO E S X 2,MIX	OFF BINS	AND 400 B	BLS		OILER,CENTRFU	GE,
	Seria		5.9 15	ML0110 .9 15.9 15.	9 1N	MDC ARS-HYD	166 166 168	71 9.	64m 37m 48m	Locatio	Fluid Loss pH n of Sample	suction		SOLU	ns c	ONTR	OI.				11:15		0.25 21 4.25 1	RIG L PASC	JP POWER ON		AM AND AIR	LINES,ALL F	UMPING EQUIF	MENT,MUD TAN	
ı	Depth Ou Depth I				1X 0 11	/O HWDP	158	71 0.	90m 36m		Depth PVT			Equip Nar	ment	Hours Run	Intake Density	Over F Dens	low U	nder Flow Density	15:45	17:15	1.50 20	PRE	MIX HIG	H VIS SWE	EP,RIG UP	TANK FAR	M LINES		
ŀ	ital Drillei Hrs Run T lative Hrs	oday		1.0 1.0	0					ump# T	ype Liner Size		_						+		17:15 17:30 17:45	_	0.25 21 0.25 21 1.00 2	PRE	-SPUD N	NT KICKING MEETING NO I OM- 150m				AND RIG CRE	W
	Entry	Date 20		4		Orill Pipe	Sta	ınds o.	00m	2 COM	MBIN- 127		5000 2		MAT	Froduct	S ADI		Amount		18:45	19:00	0.2521	HAN	D OVER	AND PLAN					
TI TO MDC		Poor	Ga 0 son Pull	DC	12	Orill Pipe Kelly Dov Tot	vn		92m R	Remarks:				SAWDUS BENTON					11		19:45	20:00	0.257	RIG	SERVICE	E					
LOC BRG		-	Run (m/			Weight of E Weight of Stri	oc _	150. 2k	daN												Remark	KS: INSF	PECT FLOOR	EQUIPME	ENT,TON	G,BACK UP	SLINGS,DE	AD MAN,CA	T HEAD,ST-80	,TUGGER LINE	ноок
From	To	D-R-C	C RP	_	Hole		_	Down			CED PUI															PINS/CHA					
Or	m 150r	m DRII		55 3kdal	Hiorque	at Bottom on Bottom		3500.0	.00m	итр мо.	@ @	@ @	Depth	Boile Boiler		Hours R	un 12	рН	Sta	ck Temp 300	SAF	ETY		Safety	Торіс				MEHL	MAC	;P
											@	@								000	MOVE R	RIG			Ţ				40.00kd		0kPa
TO: BITS	UR 3	3	SIG	NATUR	_	DRILLEF		MBLY		MUD F	RECORD		SH GILBER	DEVI	ATIO	I SUR	VEYS				ТІМІ	E LO		RT TIN	ME_	20	0:00	END 1	IME	24:00	
	Bit Nu	Size		27	1		200		.26m		. (Water x Other	Oil 🗌	Time D 20:00 14		eviation 1.4	Direction 252.7		Туре		From 20:00	20:45	Elapsed 0.75 2	DRIL		n HOLE F/1	50m- 185M		uence & Rem		
	IADC Manufac	turer SIC	OTTE 516GB		1X	O MDC	168 163 166	72 0	.56m .80m .23m	Funi	Time Density nel Viscosity	20:00 1000 32s/l			\pm						20:45 21:30 21:45		0.75 20 0.25 5 1.00 20	CIRC	CULATE I	воттомѕ	UP		AND HANDLIN	G BHA . CHAN	IGE BIT.
	Seria	al No		1280 .3 14.3 14.	7 1G 3 1N	AP SUB MDC	166 166	79 1 71 9	.64m .37m		Fluid Loss pH				\pm						22:45	23:30 23:45	0.75 6A 0.25 2	TRIF	IN HOLI	E FROM 0N	I-185M.				
ı	Depth Ou	ıt (m)	4.3 14	.3 18	1X	ARS-HYD /O HWDP	168 158 114	71 0	.48m .90m .36m	Locatio	n of Sample Depth PVT	suction		SOLII Equipi Nan	ment	Hours Run	Intake Density	Over F Dens		nder Flow Density	23:45	24:00	0.257	RIG	SERVICE	E/ INSPECT	OVERHEA	D EQUIPM	ENT		
ŀ	tal Drille Irs Run T	d (m) oday		0.2	4	TIMO	114	71 3	C		LATION ype Liner Size	SPM Pres	ssure Hours Rui	centrifuge		4	110	0	1030	1500											
		Date 201				Daill Dina	Cto	n do	E	1 COM 2 COM 2 ED	MBIN- 140 MBIN- 127	-	7500 3 7500 3	MUD	MAT	=RIAL	S ADI		Amount	Type											
TI TO	- ING	STRU	Ga 0	ige		Orill Pipe Orill Pipe Kelly Dov	Sing		.00m	Remarks:				SAWDUS	ST.				6												
MDC LOC			son Pull Run (m/			Tot Weight of E	ос		.00m kdaN												D		DECT 51 21	ECHI	NIT TO	C Back ::	el INIOS =	AD MASS 5	THEAD **	THOOSE	HOC.:
BRG MI=III From	RES I	DRILL D-R-0	_	M WOB	НО	Weight of Stri LE CONE Drag Up	0		kdaN	REDU	CED PUI	MP <u>SPE</u>	ED								INSPEC	T CATW	ALK,PIPE F	RACKS,PIE	PE RACK	PINS/CHA	INS			,TUGGER LINE	
150r 185r	n 185r	m DRII	L	55 12kdal	Torque	at Bottom		4500.0			Pressure St	rokes/min @	Depth	Boile Boiler		Hours R	un_	pН	Sta	ck Temp	HAZARD POSSABI SAF	ID= NOTION	CED BREAK C	UT TONG P	PULL BACK	LINE NOT RI	GGED UP. RI	GGED UP PF		ELIMINATE HAZ	
V. 1.3											@	@			396		4		11	300	DRILLIN	G SURF	ACE HOLE	Safety	Topic				MEHL 40.00kd		0kPa
-																															1 of 3

License No	Well	Name	FRON	T PA	GE SUN	MAR	Y			0Y5252	Sheet Serial 29_2016010 ce Location		Vendor Pason	Software Ver		Unique Wel	2016		05 1	DAILY C) Daily Walk Ard) Detailed Inspe) H2S Signs Pos	und Inspec ction - We	ction ekly (Using Che	ck List)	OP R SDK MR	\exists	CAC	DC
31525 Operator ARC RESOURO Operator's AFE 16DRL0014	CES		JNRISE J2-2	5-78-18	3			Contracto 75	ON DRILLING or's Job No	, DIV OF P			Rig N 529	0 V	Nell Type HORIZ Spud Date T 016/01/04 1	ime 7:30	078-17W6/0		Entry 56 7 1 2) Well Licence &) Flare Lines St) BOP Drills Per) Visually Inspect) Rig Site Healt!) CAODC Rig Sa	aked formed ted BOPs - 1 n & Safety I ufety Inspec	Flare Lines & De Meeting (one/c	gasser Lines rew/month) (one/rig/mon	SDK MR		asc	on)
Signature of 0 Sheldon Kashut	ba					_		MARC RA						2	Rig Release 016/01/20 1	7:00			5) Mast Inspection) Crown Saver () Motor Kills Ch	Checked ecked			MR		Pas Kelly Bushing 5.90	Op Fuel 3093.00
	1 Rig Up	Drill Actual	Reaming	4 Coring	Cond Mud & Circ	Irips	Rig Service 0.2		Cut Off Drilg Line	Dev Survey	Wireline Logs	Run Csg & Cement	Wait On Cement BO	Up Test	Drillsten Test	17 Plug Back	Squeeze Cement	19 Fishing	Dir Work 2.2		Tear Down	Waiting On	Rig Watch	25 Other	TOTAL 8.00	FUEL @ 0	08:00 HOURS 107.00 Boiler 0.00 106:00 Temp -22.00
Total		5.00			2.50			5				3.75	2.50						3.5	0.25				1.25	4.00	Wind Direction II N Page Capeti	on Wind Strength CALM
TOUR	1	SIG	NATUR	E OF	DRILLE	₽R					MARC	RAYMONE								STAR	т тім	IE	00:00		END TIM	ΙE	08:00
BITS Bit Nu	umber	2		No No	Compone				/IUD REC		Water x	Oil		Deviation [Direction	Туј	oe e	TIM From	E LO	Elapsed Co	de		Details of	Operation	ns in Sequen	ce & Remarks	
	Size	SICOTTE	27	1	BIT MUD MOTOR	_	8 0	0.26m 7.56m		Time Density	07:00		00:15 199.1m 01:00 227.2m 01:45 255.2m	1.5 1 0.5	267.4 255.2 208.5			00:00		5.002 2.2520A	DIRE	CTIONAL SU	JRVEYS/C	ONNECTI	ONS/TOOFA	td surface ho	
		SS516GB	1280	1	XO NMDC GAP SUB	16 16	6 71	9.23m 1.64m	Funnel V		1200 42s/l		02:30 283.3m 03:15 311.4m	0.9	200.5 62.8			07:15 07:30 07:45	07:30 07:45 08:00	0.257 0.2521 0.2521	SAFE		G ON LEVI	EL DRILLI	EQUIPMENT NG RIG/LEVI MEETING	L RIG	
	Jets	14.3 14 14.3 14	3 14.3 14.	3 1	NMDC JARS-HYD	16 16	8 57	9.37m 5.48m	Location of		SHAKERS		04:00 339.5m 04:45 367.6m SOLIDS (0.6 0.7 CONTRO	68.5 DL												
Depth 0 Depth Total Drille	In (m)		18	5 1	X/O 1 HWDP HWDP	15	4 71	9.36m 9.28m	IRCULA	Depth PVT			Equipment Name CENTRIFUGE	Hours Run 8	Intake Density 1250	Over Flow Density	Under Flow Density										
Hrs Run Cumulative Hr	Today		4.0	0					Imp# Type 1 COMBINED			sure Hours Rur															
CUTTING			RE		Drill Pipe			9.75m	2COMBINED	127	125 9	500 7	MUD MA	Product	S ADDE		unt Type 50 EAC	н									
TO MDC	R	Ga 0 eason Pul	DC	- 0	Drill Pipe Kelly D	-		0.00m 3.37m R 7.00m	emarks:				FLOWZAN				2 EAC	H			+						
LOC BRG	Tota	al Run (m/			Weight of S	of DC		2kdaN 5kdaN										Remar	ks: INSF	PECT FLOOR	EQUIPME	NT,TONG,BA	CK UP SLI	NGS,DEAD) MAN,CAT H	EAD,ST-80,TU	GGER LINE HOOK
From To	D-F	R-C RP		Hol			Down		REDUCEI											ALK,PIPE RA							
189m 507	/m D	RILL	55 12kdal	1110140	on Bottom			0.00m	mp No. Pres	@ @	@ @	Depth	Boiler #	Hours Ru	n j	0H 5	Stack Temp 31	SAF	ETY		Safety	Topic			l N	1EHL	MACP
										@	@						31		NG SURF	ACE HOLE		_		,		55.00kdaN	
TOUR:	2	SIG	NATUR	_	DRILLE		MBLY	l r	/UD REG	CORD	MARC	RAYMONE	DEVIATION	ON SUR	VEYS			ТІМ	E LO	STAR	T TIM	IE	08:00	E	END TIN	IE	20:00
	umber Size	2	27	No	Compone BIT		ID Le			Aud Type	Water ther	Oil 🗌	Time Depth 08:00 507m			Тур	ое	From 08:00	To	Elapsed Co	$\overline{}$	ULATE HOL				ce & Remarks P PRIOR TO	
	h	SICOTTE SS516GB		1	MUD MOTOR	16	3 72 (7.56m 0.80m	Funnel V	Time Density								08:45	09:00	0.25 21 1.00 6M	WIPE	R TRIP SUR	FACE PU	MP ANY TI		OP 2-4	
Ser	Type ial No Jets		1280	7 1	NMDC GAP SUB NMDC	16 16	6 79	9.23m 1.64m 9.37m		id Loss								10:00 10:45	-	0.75 5 0.25 21 0.75 6B	SAFE		G ON TRIF	PING OU	T REV COP 2	:-4 Y FILL HOLE	AT ALL TIME
Depth 0		14.3 14	50	1 7 1	JARS-HYD X/O	16 15	8 57 5	5.48m 0.90m	Location of	Depth			SOLIDS (Hours	Intake	Over Flow	Under Flow	11:45	12:00	0.25 21 1.25 20	SAFE	TY MEETIN	G WITH DE	ON HAN	IDLE BHA/BL	OW BACK TO MWD TOOLS	P DRIVE
Depth Total Drille Hrs Run	ed (m)		18 32 0.0	2 48	1 HWDP HWDP	11	7 - 7		IRCULA		CDM D	Library David	Name	Run	Density	Density	Density	13:15	14:00	0.75 124	SERI	N RIG FLOOR AL#111629 TY MEETIN				ONG,ELEVATO	DR CIRT- 33950-141
Cumulative Hr	s Run	2016/01/0	5.0	┦					1SINGLE 2SINGLE	140	0	700 0 700 3	MUD MA		S ADDE			14:15		1.50 12	RUN	219MM CAS	ING FROM	1 0M TO 50		NT	
TI	3	Ga	ge		Drill Pipe Drill Pipe	Si		9.75m 0.00m						Product		Amo	unt Type	17:00	-	0.25 21 0.25 120	RIG		ERS PRES	SURE TE			P DRIVE WITH AIR
MDC BT LOC S	R	U eason Pul al Run (m/		0	Kelly E	Total	50	3.37m R 7.00m 2kdaN	emarks:									17:15	18:30	1.25 120	16.08		O. BUMP P	LUG WITH			I. DISPLACED WITH HELD. 7m ³ CEMENT
BRG >	DRII	LLED		HC	Weight of S	tring	4	5kdaN										INSPEC	CT CATW	ALK,PIPE RA	EQUIPME	NT,TONG,BA	CK UP SLI	NGS,DEAD	MAN,CAT H	EAD,ST-80,TU	GGER LINE HOOK
From To	D-F	R-C RP	M WOB	Torqu	ue at Bottom	Jp 15		.00Nm PL	mp No. Pres			Depth	Boiler						E LINE W	AS LOOSE A					CK MOVED	BLOCK MAKIN	NG IT SAFE TO USE
				Fill	on Bottom			0.00m		@	@		Boiler #	Hours Ru	n j	10.5	Stack Temp 31	WIPPER			Safety	Торіс			N	1EHL 46.00kdaN	MACP 0kPa
TOUR	3	SIG	NATUR	E OF	DRILLE	ER					MARC	RAYMONI								STAR	T TIM	IE	20:00	E	END TIM	ΙΕ	24:00
BITS Bit Nu	umber			DR No	Compone				/UD REC		Water _	Oil 🔲	DEVIATION Time Depth			Туј	oe .	TIM From	E LO	Elapsed Co	de		Details of	Operation	ns in Sequen	ce & Remarks	
	Size Code									Time	ther							20:00		2.50 13 0.25 21	SAFE	ON CEMEN	G WITH W				
Manufa	Type rial No			\blacksquare				=	Funnel V	Density iscosity uid Loss								22:45	24:00	1.25 25	CUT	CASING ANI	O RIG OUT	CONDUC	CTOR,WELD	ON CSG BOW	/L
001	Jets	+	\blacksquare	\blacksquare					Location of	pН			SOLIDS	CONTRO	DL												
Depth 0 Depth	In (m)									Depth PVT			Equipment Name	Hours Run		Over Flow Density	Under Flow Density										
Total Drille Hrs Run Cumulative Hr	Today								IRCULA Imp# Type 1SINGLE	Liner Size	SPM Pres	sure Hours Rur															
	y Date	UCTU	RE		Drill Pipe	St	ands		2SINGLE		0	0 0	MUD MA	Product	S ADDE		unt Type										
TI TO	} ,		DC	H	Drill Pipe Kelly D)own	ngles	R	emarks:																		
LOC BRG	_	eason Pul al Run (m/			Weight of S			#										Remar	ks: INSF	PECT FLOOR	EQUIPME	NT,TONG,BA	CK UP SLI	NGS,DEAD) MAN,CAT H	EAD,ST-80,TU	GGER LINE HOOK
METRES From To		LLED R-C RP	M WOB	Hol	LE CON le Drag		Down _		REDUCE									INSPEC	CT CATW	ALK,PIPE RA	ACKS,PIP	E RACK PIN	S/CHAINS				
	+	+	+	11	on Bottom			Pu	mp No. Pres	© Str	okes/min @ @	Depth	Boiler Boiler #	Hours Ru	n j		Stack Temp	SAF	ETY		Safety	Topic				1EHL	MACP
V. 1.3				1						@	@		396		4	10.5	31	WELDIN	NG		Luioty					15.00kdaN	0kPa

License No Well	I Name	FRONT	PAGE S	UMMA	ARY			0Y525	Sheet Seria 529_2016010 ace Location	06_1B	Vendo Pason	Software V	ersion Loc Type	Unique Wel	2016		06 1	DAILY C 1) Daily Walk Ard 2) Detailed Inspects 3) H2S Signs Pos	ound Inspection - Wei sted if Requ	ction ekly (Using Ch uired	eck List)	OP RM SDK MR	(c.	AØ1	DC)
31525 ARCF Operator ARC RESOURCES Operator's AFE 16DRL0014 Signature of Operator	RES HZ SUNF		78-18			PRE Cont 75	ractor CISION DRILL ractor's Job N	ING, DIV OF			Rig 1 529	lo .	DLS Well Type HORIZ Spud Date 2016/01/04 Rig Release	Гіте 17:30	-078-17W6/0		Entry 5 6 7 7 1 2 3	I) Well Licence & St. Flare Lines St. St. BOP Drills Per 7) Visually Inspect I) Rig Site Healt 2) CAODC Rig Sa 8) Mast Inspecti	aked formed ted BOPs = 1 h & Safety I afety Inspec on before R	Flare Lines & Do Meeting (one/o	egasser Lines crew/month) t (one/rig/mon	th)	pa	soi	
Sheldon Kashuba CODE 1	2	3	4 !	; (6		8 9		11	12	13 1		2016/01/20		18	19	20) Crown Saver 5) Motor Kills Ch	Checked ecked	23	24	MR MR 25		Pason Bushing 5.90	Op Fuel 3307.00
Rig Up Tour 1	Drill Re	eaming (Mud irc Tri	ips Se		epair Cut Rig Drilg			Run Csg & Cement	Wait On Nippl Cement BC	2.00 5	t Drillste P Test 5.00	n Plug Back	Squeeze Cement	Fishing	Dir Work	0.75	Tear Down	Waiting On	Rig Watch	Other T	**************************************	25000.0 Time 06: Current Conditions CLEAR	Temp
Tour 3	3.00 7.00				0.50	0.25							7.00				0.5	50 0.25					4.00 24.00	Wind Direction N Road Condition FAIR	Wind Strength CALM
TOUR 1	SIGN	ATURE	OF DRI	LLER					JOS	SH GILBERT								STAR	T TIM	IE	00:00	EN	D TIME	C	08:00
BITS Bit Number			DRILLI No Com			Length		RECORD Mud Type		Oil 🗆	DEVIATI Time Depth			Ту	ne	TIM From	E LO	Elapsed Co	nde		Details of	Operations in	n Sequence & I	Romarke	
Size IADC Code			10 001	ponone	05 15	Longar			Other							00:00	00:15	0.2521	SAFE		NG PRIOR 1	O NIPPLE U			V T/ FLOWLINE/
Manufacturer Type							Funi	Density nel Viscosity	1220							02:15	02:30	0.257	RIG S	CH KAN. SERVICE/ S					
Serial No Jets							Lagatio	Fluid Loss pH								02:30	02:45 07:45	0.2521 5.0015A	P.T E	BLIND RAMS	S,UPR,LPR,	KILL LINE VA	STER/ REVIEW LVES AND CH ER KELLY COCK	ECK VALVES	
Depth Out (m) Depth In (m)							Locatio	n of Sample Depth PVT	T4		SOLIDS Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density				AND (ANNULAR,1 MP		
Total Drilled (m) Hrs Run Today								LATION /pe Liner Size	SPM Pres	ssure Hours Rur	CENTRIFUGE	11011	8 1220	1220		0 07:45	08:00	0.2521	$\overline{}$		NG/ CREW	CHANGE MEE	ETING		
Cumulative Hrs Run Entry Date							1 2	140	0	0 0	MUD MA														
TI TIME STR	Gage	E	Drill Pi Drill Pi)e	Stands						DEFOAMER D		ì	Amo	2 EAC										
	ODC leason Pulled			Total			Remarks:																		
BRG Total	al Run (m/hr)			ght of DC of String														PECT FLOOR					AN,CAT HEAD,S	T-80,TUGGE	R LINE HOOK
	R-C RPM	WOB	Hole Drag Torque at Bot	Up	Do	own		Pressure Si		Depth	Bellen					FUNCT	IONED L	JPPER & LOV BING VALVE	VER TRA	VEL LIMITS					
			Fill on Bott					@	@		Boiler Boiler #	Hours F	Run 8	pH :	Stack Temp 31	SAF	ETY		Safety	Topic			MEHL		MACP
				i				@	@							NIPPLE	UP BOP					í	,	00kdaN	0kPa
TOUR 2	SIGN	ATURE	OF DRI		SEME	BLY	MUD	RECORD		ARSENAULT	DEVIATI	ON SUF	RVEYS			ТІМІ	E LO		T TIM	IE	08:00	EN	D TIME		20:00
Bit Number Size	3	159				Length 0 0.20n		Mud Type	Water × Other	Oil 🗌	Time Depth 14:15 519.55m		Direction 351.3	Ту	ре	From 08:00	To	Elapsed Co		BLIND RAMS			n Sequence & I LVES AND CH		S,HCR'S AND
IADC Code Manufacturer		N N	1MOTOR 1NON MA	HS G MONEL	127 121 6	0 8.70n 8 9.35n		Time Density	14:00		14:45 548.8m	1.3 0.9 0.7											ER KELLY COCK ,ANNULAR,1 MP		
Serial No		12762931	1GAP SU	B G MONEL	125 7- 119 6	8 9.35n	41	rel Viscosity Fluid Loss			15:30 607.3m 15:45 636.55m 16:15 665.8m	0.7	292.5 281.3 355.4			09:45	10:00	0.25 15	ACCU AFTER				RESSURE:20.5MF		REAMINING
Jets Depth Out (m)	8.7 8.7 8.7	8.7 8.7	1NMDC 1X/O		119 6	1 0.94n	1	pH n of Sample Depth			16:45 695.05m SOLIDS					40.00	10:15	0.2521	REC	HARGE:2MII	N39SEC,PF	RECHARGE:6	11MPA,TIME T .8MPA,N2 BOT HANDLE BHA A	TLES X4:210	
Depth In (m) Total Drilled (m)		507 391	15 HWDF 1X/O	/D/MECH	114 7: 134 7: 134 7:	5 0.96n	CIRCI	PVT LATION			Equipment Name CENTRIFUGE	Hours Run	Density	Over Flow Density 1220	Density			1.0020	2-5/2	y1		DLE BHA,MW		ND TRIF IN H	OLE REV COP
Hrs Run Today Cumulative Hrs Run		4.00 4.00	1X/O 144 HWE		134 6		Pump# T	/pe Liner Size		ssure Hours Rur 2000 5						11:15	11:45	0.50 6A 0.25 7	TRIP	IN HOLE TO	O CASING	SHOE	SEC TO CLOSE		
Entry Date	RUCTUR	E	14 Drill Pi		Stands		2SIN	GLE 127	130 12	2000 1	MUD MA	Product			ount Type	12:00	12:15 12:30	0.25 21 0.25 21	SAFE	ETY MEETIN	IG PRE SPI	JD WITH ARC	FLAIR STACK C AND CREW,		
TI TO R	Gage ODC leason Pulled		g Drill Pi K	elly Down	Singles	-16.80n	Remarks:				NEWSTABIL DEFOAMER D	SCO			1 EACI 2 EACI	∄		4.00 2	507M	1 TO 898M.			I WORK PIPE TH	EN DRILL 159N	MM HOLE FROM
	al Run (m/hr)			Total ght of DC of String		898.00n 0kdal 54kdal	1				ALKAPAM A11				1 EACI	19:45	20:00	3.25 20/ 0.25 21	SAFE	TY MEETIN	IG REVIEW	ONNECTION OBSERVATI		T-90 THGGE	B I INE HOOK
METRES DRI	R-C RPM	WOB	HOLE (ONDI	TION	own 1		CED PUI	MP SPE	ED						INSPEC	CT CATW	VALK,PIPE R	ACKS,PIP	PE RACK PIN	NS/CHAINS	FLARE AND	DEGASSER LI	NES,LOAD L	INE,
507m 855m D	RILL 5	10kdaN 11kdaN	Torque at Bot Fill on Bott	om		3500.00Ni	7	Pressure St	trokes/min 60 @	Depth 600	Boiler Boiler#	Hours F	Run	pH :	Stack Temp	INSPEC		BING VALVE	/INSIDE E	ВОР					
							2	1500 @	50 @	550	39		12	10.5	31	0 HANDLI	E BH		Safety	Topic			MEHL 45.	00kdaN	MACP 2910kPa
TOUR 3	SIGN	ATURE	OF DRI	LLER					JO	SH GILBER								STAR	T TIM	IE	20:00	EN	D TIME		24:00
BITS Bit Number	3		DRILLI No Com	NG AS		Length		RECORD Mud Type	Water 🗴	Oil	DEVIATI Time Depth			Ту	pe	TIM From	E LO	Elapsed Co	ode		Details of	Operations in	n Sequence & I	Remarks	
Size IADC Code		159	1BIT 1MOTOR	HS	159	0 0.20	1	Time	Other	23:45	20:00 899.8m 20:30 929.05m	9.2	352.8			20:00	23:00 23:15	3.00 2 0.25 21				898M-1070M IN 103 SECC	ONDS. CREW F	ESPONDED	WELL.
	MM54R		1GAP SL		125 7	4 1.71	m Funi	Density nel Viscosity	1210 33s/l	1220 33s/	21:15 958.3m 21:45 987.55m 22:30 1016.8m	6.4 4.7 3.3	346.1 346.3 1.8			23:15 23:45	23:45 24:00	0.50 20A	\rightarrow			ONNECTION OWER PIPE F	IS RAMS/ 4 SECC	NDS TO CLC	DSE
Serial No Jets	8.7 8.7	12762931 8.7 8.7	1NMDC	G MONEL	119 6	8 9.32		Fluid Loss pH n of Sample	CUCTION	CHOTION	23:15 1046.05m	2.2	22												
Depth Out (m) Depth In (m)	8.7	507	1X/O 15 HWDF 1X/O	1	134 6 114 7 134 7	2 46.80	n	Depth	SUCTION	SUCTION	SOLIDS Equipment Name		Intake Density	Over Flow Density	Under Flow Density										
Total Drilled (m) Hrs Run Today		563 3.00		YD/MECH		5 5.19	CIRCU	LATION /pe Liner Size	SPM Pres	ssure Hours Rur	CENTRIFUGE	•	4 1250	1210	190	0									
Cumulative Hrs Run Entry Date		7.00	144 HWE		114 6	8 411.84	n 1SIN 2SIN	GLE 140	100 12	2500 4 2500 0	MUD MA				unt Tors				\pm						
CUTTING STR	Gage		20 Drill Pi 0 Drill Pi	е	Stands	0.00	n					Product		Amo	ount Type										
	ODC leason Pulled al Run (m/hr)			Total ght of DC		-20.30 1070.00 0kda	n									#		+	+						
BRG METRES DRI	` ′			of String		54kda	N											_	_				AN,CAT HEAD,S DEGASSER LI		
From To D-	R-C RPM	W0B 12kdaN	Hole Drag Torque at Bot	Up	1 Do	5500.00Ni	Pump No.	Pressure St	trokes/min	Depth	Boiler					FUNCTION	ONED UP		R TRAVEL	LIMITS & E- S			NITER AND PAS		
			Fill on Bott	om		0.00		3800 @ @	60 @ @	1070	Boiler #	Hours F	Run 4	pH :	Stack Temp 33	SAF			Safety	Торіс			MEHL		MACP
V. 1.3								@	@][1				DERRIC	CK CONN	NECTIONS					55.	00kdaN	3109kPa

FRONT PAGE SUMMARY License No Well Name	Tour Sheet Serial Number 0Y52529_20160107_1A Surface Location		north Day DAILY CHECKS OP RM 101 07 2) Deallied Inspection - Weekly (Using Check List) 9) RZS Signs Posted if Required SDK MR CAGDIC
31525 ARCRES HZ SUNRISE J2-25-78-18 Operator ARC RESOURCES	12-25-078-18W6 Contractor PRECISION DRILLING, DIV OF PDCLP	BC DLS 102/09-19-078-17W6/00 Rig No Well Type HORIZ	4) Well Licence & Stick Diagram Posted SDK. MR. Re-Entry 6) BDP Drills Performed SDK. MR. 19 19 19 19 19 19 19 19
Operator's AFE 16DRL0014 Signature of Operator Representative	Contractor's Job No 75 Signature of Contractor's Rig Manager	Spud Date Time 2016/01/04 17:30 Rig Release Date Time	1) Rig Site Health & Safety Meeting (one/crew/month) 2) CAUDC Rig Safety Inspection Checklist (one/rig/month) 3) Mast Inspection before Raising or Lowering
Sheldon Kashuba CODE 1 2 3 4 5 6 7	MARC RAYMOND 8 9 10 11 12	2016/01/20 17:00 13 14 15 16 17 18	4) Crown Saver Checked MR Pason Shiftort Kills Checked MR Pason Shiftort Kills Checked MR Pason Shiftort Kills Checked MR Pason Shiftort Kills Checked Pason Shiftort Kills Ch
Rig Drill Reaming Coring Cond Mud & Trips Rig Service 7 Tour 1 5.75 Coring Cond Mud & Circ Trips O.2			Dir Safety Tear Waiting Rig Other TOTAL
Tour 2 5.25 0.50 3.50 0.5 Tour 3 0.25 3.50 0.2	55		1.50 0.75 12.00
TOUR 1 SIGNATURE OF DRILLER	JOSH GILBER	NT	3.25 1.00 24.00 ≤ END TIME 08:00
BITS DRILLING ASSEMBLY Bit Number 3 No Component 0D ID Le	MUD RECORD angth 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	0.20m Other	00:001075.3m 0.8 23.6 00 00:45 1104.55m 0.7 107.8	100.00 05-45 5-78 DRILL 159mm HOLE FROM 1070M-1414M
Type MM54R 1 GAP SUB 125 74	9.35m Density 1230 125i 1.71m Funnel Viscosity 33s/l 34si 9.35m Fluid Loss	02:001163.05m	07:30 07:45 0.257 RIG SERVICE / FUNCTION ANNULAR/ 22 SECONDS TO CLOSE 07:45 08:00 0.2521 SAFETY MEETING/CREW CHANGE MEETING
Jets 8.7 8.7 8.7 1 NMDC 119 68	9.33m	03:15 1221.55m	
Depth In (m) 507 1 X/O 134 75	6.80m Depth 0.96m PVT 5.19m CIRCULATION	Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density centrifuge 8 1240 1230 1700	
Hrs Run Today 5.75 1 X/O 134 68	5.19m CIRCULATION 0.94m Pump# Type Liner Size SPM Pressure Hours Ru 1.84m 1 SINGLE 140 100 9000 3	7	
	2SINGLE 127 0 9000 (MUD MATERIALS ADDED	
TO ODC Kelly Down 2	9.75m	REDUCTION	
LOC Total Run (m/hr) Weight of DC BRG Weight of String 5	0kdaN 8kdaN	NEWFLOC	Remarks: INSPECT FLOOR EQUIPMENT, TONG, BACK UP SLINGS, DEAD MAN, CAT HEAD, ST-80, TUGGER LINE HOOK
METRES DRILLED	REDUCED PUMP SPEED OONm 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
Torque de Sottom	0.00m 1 4640 @ 60 @ 1322	396 8 10.5 310	SAFETY MEHL MACP
TOUR 2 SIGNATURE OF DRILLER			DERRICK CONNECTIONS 55.00kdaN 3109kPa START TIME 08:00 END TIME 20:00
BITS DRILLING ASSEMBLY	SYLVAIN ARSENAUL MUD RECORD	DEVIATION SURVEYS	TIME LOG
	Mud Type Water X Oil Did	Time Depth Deviation Direction Type	From To Elapsed Code Details of Operations in Sequence & Remarks 08:00 13:15 5:25 2 DRILL 155MM HOLE FROM 1414M TO 1560M
Manufacturer HALLIBURTON 1NON MAG MONEL 121 68	9.35m Density 1220 1.71m Funnel Viscosity 30s/l	09:45 1484.8m 0.7 4.6 10:45 1514.05m 1.4 0.1 12:30 1543.3m 1 0	13:15 14:00 0.75@0A DIRECTIONAL SURVEYS, CONNECTION TIME 14:00 14:15 0.25 7 RIG SERVICE FCT UPPER PIPE RAM 4 SEC TO CLOSE/CHANGE OUT SAVER SUB 14:15 14:45 0.50 5 CIRCULATE PRIOR TO TRIP OUT
Jets 8.7 8.7 8.7 1 NMDC 119 68	9.35m Fluid Loss 9.32m pH	SOLIDS CONTROL	14:45 15:00 0.25 21 SAFETY MEETING ON TRIPPING OUT REV COP 2-4 15:00 18:30 3.50 BB TRIP OUT OF HOLE FLOW CHECK 10 MIN ON BOTTOM AND @ 1441M.800M.500M@
Depth Out (m) 1560 15 HWDP 114 72 4	0.94m Location of Sample SHAKERS 6.80m Depth 1500m 0.96m PVT 64m3	Equipment Hours Intake Over Flow Under Flow Name Run Density Density Density	TOOLS@OM,TRIP VOLTCV.7.2em3,TMV-9.02m3,DIFF-1.73m3 18:30 18:45 0.25 RIG SERVICE,FUNCTION LOWER PIPE RAMS,4 STC 18:45 19:00 0.25 1 SAFETY MEETING ON HANDLE BHA WITH DD / CREW CHANGE
Hrs Run Today 5.25 1X/O 134 68	5.19m CIRCULATION 0.94m Pump# Type Liner Size SPM Pressure Hours Ru	CENTRIFUGE 12 12 1220 1220 1600	19:00 19:45 0.75 20 DIRECTIONAL WORK CHANGE OUT BIT 19:45 20:00 0.25 21 SAFETY MEETING PRIOR TO TRIP IN / COP 2-5
Entry Date 2016/01/06	1.84m 1\$INGLE 140 70 5000 6 2\$INGLE 127 0 5000 6	MUD MATERIALS ADDED Product Amount Type	
TO 8 ODC NO Kelly Down	0.00m Remarks:	PREVENTION 1 EACH REDUCTION 3 EACH PROTECTION 2 EACH	
LOC A Total Run (m/hr) 58.50 Weight of DC (c) BRG X Weight of String 5	0.30m OkdaN 8kdaN	CALCIUM NITRATE 40 EACH	Remarks: INSPECT FLOOR EQUIPMENT, TONG, BACK UP SLINGS, DEAD MAN, CAT HEAD, ST-80, TUGGER LINE HOOK
METRES DRILLED From To D-R-C RPM WOB Hole Drag Up 2 Down			INSPECT CATWALK PIPE RACKS, PIPE RACK PINS/CHAINS, FLARE AND DEGASSER LINES, LOAD LINE, FUNCTIONED UPPER & LOWER TRAVEL LIMITS & F. STOPS, CROWN SAVER, IGNITER AND PASON CHOKE, MANUAL CHOKE INSPECT STABBING VALVE/INSIDE BOP
	0.00m Pump No. Pressure Strokes/min Depth @ @ @	Boiler	INSPECT STABBING VALVE/INSIDE BOP SAFETY Safety Topic MEHL MACP
	@ @		TRIP OUT 76.00kdaN 1220kPa
TOUR 3 SIGNATURE OF DRILLER BITS DRILLING ASSEMBLY	JOSH GILBER	DEVIATION SURVEYS	START TIME 20.00 END TIME 24.00 TIME LOG
Bit Number 4 No Component OD ID Le	ongth Mud Type Water x Oil Other	Time Depth Deviation Direction Type	From To Elapsed Code Details of Operations in Sequence & Remarks 20:00 23:30 3.50 SA TRIP IN HOLE FROM 0M-1560M/ WITH 10 MIN FC'S @ 550M 1000M/ WASH ANY TIGHT
Manufacturer SMITH 1NON MAG MONEL 121 68	8.70m Time 23:45 9.35m Density 1250 1.71m Funnel Viscosity 31s/l		SPOTS SPOT
Serial No JK7597 1NON MAG MONEL 119 68 Jets 7.1 7.1 7.1 10.3 1NMDC 119 68	9.35m Fluid Loss 9.32m pH		
Depth Out (m) 15 HWDP 114 72 4	0.94m	SOLIDS CONTROL Equipment Hours Intake Over Flow Under Flow Name Run Density Density Density	
Total Drilled (m) 7 1JARS-HYD/MECH 134 75 Hrs Run Today 0.25 100 134 68	5.19m CIRCULATION 0.94m Pump# Type Liner Size SPM Pressure Hours Ru	CENTRIFUGE 4 1250 1240 1700	
Entry Date 2016/01/07	11.84m 1 SINGLE 140 87 9800 2 SINGLE 127 0 9800 (32.25m)	MUD MATERIALS ADDED Product Amount Type	
TI Gage d Drill Pipe Singles	0.00m	DEFOAMER DSCO 2 EACH	
LOC Total Run (m/hr) Weight of DC	57.00m OkdaN 8kdaN		Remarks: INSPECT FLOOR EQUIPMENT,TONG,BACK UP SLINGS,DEAD MAN,CAT HEAD,ST-80,TUGGER LINE HOOK
METRES DRILLED	REDUCED PUMP SPEED		INSPECT CATWALK, PIPE RACKS, PIPE RACK PINS/CHAINS, FLARE AND DEGASSER LINES, LOAD LINE, FUNCTIONED UPPER & LOWER TRAVEL LIMITS & E-STOPS, CROWN SAVER JGNITER AND PASON CHOKE, MANUAL CHOKE
	.00Nm	Boiler Hours Run pH Stack Temp	INSPECT STABBING VALVE/INSIDE BOP SAFETY Safety Topic MEHL MACP
V.1.3	@ @	396 4 10.5 310	TRIPPING OUT 110.00kdaN 3109kPa

icense No		I Name			E SUN	MARY	7			OY5252 Surfa	Sheet Seria 29_2016010 ce Location		Vendor Pason	Software V	ersion Loc Type	Unique W	2016 ell ld	01	08	H2S Sign	k Around Inspectio s Posted	I Inspection in - Weekly if Required		k List)	OP RIN		CAC	bDC)
31525 Operator RC RESOU Operator's A SDRL0014	RCES	RES HZ S	UNRISE J2-2	25-78-18					ctor SION DRILLING ctor's Job No		778-18W6		Rig N 529	_	Well Type HORIZ Spud Date 2016/01/04	Time	3-078-17W6/00		Entry	5) Flare Line 6) BOP Drill 7) Visually In 1) Rig Site H 2) CAODC R	es Staked s Perform spected B lealth & S lig Safety	ned 30Ps - Flare Safety Meet r Inspection	Lines & Dega ting (one/cre Checklist (o	asser Lines w/month) ne/rig/mon		P	asi	on
ignature of heldon Kasl		r Represe	ntative 3	4	5	6			re of Contracto	r's Rig Ma	nager 11	12	13 14	15	2016/01/20		18	19		3) Mast Insp 4) Crown Sa 5) Motor Kil	aver Checke Is Checke	cked	ng or Lowerin	ng 24	MR. 25		Pa Kelly Bushing 5.90	Op Fuel 2235.00
Tour 1	Rig Up	Drill Actual 7.2	Reaming 5	Coring	Cond Mud & Circ	Trips	Rig Service 0.29	Rep Rig	air Cut Off	Dev	Wireline Logs	Run Csg & Cement	Wait On Cement BOI	Up Tes	t Drillst	em Plug	Squeeze Cement	Fishing	Dir Work 0.	Safe Meeti 25	ty 1		Naiting	Rig Watch	Other	**************************************	FUEL @	08:00 HOURS 361.00 Boiler 0.00 Temp -22.00
Tour 3		13.2			0.75	3.75	0.2	5											2.		.00					4.00	Wind Direct	tion Wind Strength CALM
ΓOUR	1	SIC	NATUR	E OF	DRILLE	ER					JOS	H GILBERT	ī							ST	ART	TIME		00:00	E	ND TIM	IE	08:00
BITS Bit	Number Size	4	15	No	Compone		ID Lei	ngth 0.20m	MUD REC	Aud Type	Water x	Oil 🗌	Time Depth			Т	уре	From	-	Elapsed	_						ce & Remark	s
	OC Code facturer	SMITH		1 M	OTOR HS ON MAG MO	127	0 8	3.70m 9.35m		Time Density	03:00	05:00 1240	03:15 1601.8m 06:15 1631.05m	1.5	27.7 60.3			00:00 07:15 07:30	07:30	7.25 0.25 0.25	20A	DIRECTI	IONAL SUF	RVEYS/C		NS/TOOLF	ACE ORIENT S TO CLOSE	ATION
5	Type Serial No Jets.	Z613 7.1	JK759	7 1 N	AP SUB ON MAG MO MDC	125 ONEL 119	68 9	1.71m 9.35m 9.32m	Funnel V Flu	iscosity aid Loss pH	31s/l	31s/						07:45	08:00	0.25	21	SAFETY	MEETING	/CREW C	HANGE ME	EETING		
	Out (m)	-	0.3	1 X/	O HWDP	134 114	61 (72 46	0.94m 6.80m	Location of	Sample :	SUCTION	SUCTION	SOLIDS (Hours	Intake	Over Flow												
Total Dr	th In (m) illed (m) ın Todav		156	9 1 JA	ARS-HYD/N	134 MECH 134	75 5		CIRCULA Pump# Type		SPM Pres	sure Hours Rur	Name CENTRIFUGE	Run	Density 4 124	Density 0 123	Density 0 180	0										
Cumulative En	Hrs Run try Date	2016/01/	7.5	50 1 44	HWDP	114	68 411	1.84m	1 SINGLE 2 SINGLE	140	87 10	500 7 500 0	MUD MA				aunt Tuna											
TI TO	G STI	G	JRE age DDC		Orill Pipe Orill Pipe Kelly D	Sin		0.00m	Remarks:				PREVENTION	Product	!	Am	ount Type 1 EACH 6 EACH											
MDC LOC	_	Reason Pu al Run (m	lled		Weight o	Total	1649	9.05m OkdaN	nomano.																			
BRG From 1			PM WOB	НОІ	Weight of S LE CON Drag		N	3kdaN	REDUCE	D PUM	IP SPE	ED						INSPEC	CT CATV	VALK,PIP	E RACK	(S,PIPE R	RACK PINS	/CHAINS,	FLARE AN	D DEGASS	ER LINES,LO	DAD LINE, DIKE,MANUAL CHOKE
		RILL	10 8kda	N Torque	at Bottom n Bottom		5500.		Pump No. Pres 1 4200	@	55 @	Depth 1616	Boiler Boiler#	Hours F	Run	pH	Stack Temp	INSPEC		BING VA	LVE/INS	SIDE BOP						
	+							<u> </u>		@	@		396		8	10.5	31		CK CON	NECTION		Safety Topi	ic			I N	55.00kdaN	MACP 3109kPa
FOUR	2	SIC	NATUR	,	DRILLE LLING		MDIV		MUD REG		SYLVAIN A	RSENAULT	DEVIATION	W CIT	OVEVE			TIM	E LO		ART	TIME		08:00	E	ND TIN	IE	20:00
	Number Size	4	15	No	Compone		ID Lei	ngth 0.20m		Aud Type	Water 🗴	Oil 🗌	Time Depth 09:15 1660.3m		Direction 74.8	Т	уре	From 08:00	To	Elapsed 6.00	_	DRILL 15	[59MM HOL			in Sequen	ce & Remark	S
	OC Code facturer	SMITH Z613		1N	OTOR HS	-	68 9	3.70m 9.35m	Funnel V	Time Density	09:30 1220	11:00	12:15 1689.55m	2.7	52			14:00	15:00	0.75	7	RIG SER	VICE FCT	UPPER F		4 SEC TO C	LOSE	
8	Type Gerial No Jets		JK759	7 1N	AP SUB ON MAG MO MDC	125 ONEL 119	68 9	.71m 9.35m 9.32m		id Loss pH		32s/						15:00 15:45 16:00	16:00	0.75 0.25 2.50	21	SAFETY N	MEETING ON	N TRIP OUT		2-5,FUNCTION		WHILE OUT OF HOLE 0M,500M,@TOOLS,0M
	Out (m)	10.3 1	0.3 170 156	<u>, T</u>	HWDP	134 114	72 46	0.94m 6.80m	Location of	Sample s Depth PVT	SHAKERS	SHAKERS 1688n	SOLIDS (Equipment	Hours Run	Intake Density	Over Flow Density	Under Flow Density	18:30		0.25	-	SAFETY	MEETING	WITH DE	ON HAND			
Total Dr	th In (m) illed (m) ın Today		14	15 1JA	ARS-HYD/M	134 IECH 134	75 5		CIRCULA Pump# Type	TION	SPM Pres	68m3	CENTRIFUGE	1:	,	,		18:45 0 19:45		0.25	+				CHANGE M	IT / DIAL UI	MOTOR	
Cumulative En	try Date	2016/01/			HWDP	114		.84m 9.25m	1SINGLE 2SINGLE		-	500 8 500 0	MUD MA	TERIAL Product			ount Type											
TI TO	7	G	age 15		Orill Pipe Kelly D	Sin	gles o	0.00m	Remarks:				REDUCTION PREVENTION				2 EACH 2 EACH 1 EACH	1										
MDC RO LOC M BRG	_	Reason Pu al Run (m			Weight of S			kdaN kdaN					NEWSTABIL NEWFLOC CALCIUM NITR	ATE			1 EACH 1 EACH 34 EACH	1	ke. INC	DECT ELC	IOP FOI	IIDMENT	TONG BAC	V I ID SI IN	IGS DEAD	MAN CAT L	AD ST-90 TI	JGGER LINE HOOK
METRE From 1	o D	R-C R	PM WOB	HOL	LE CON		N	3	REDUCE									FUNCTI	ONED UP	VALK,PIP PPER & LO	E RACK	KS,PIPE R RAVEL LIM	RACK PINS	CHAINS,	FLARE AN	D DEGASS	ER LINES,LO	
1649m 17	'05m I	ORILL	20 11kda	- I rorquo	at Bottom n Bottom		4000.	00Nm 0.00m		ssure Str	okes/min 50 @ @	Depth 1620	Boiler Boiler #	Hours F	Run 12	pH 10.5	Stack Temp	SAF		BBING VA		Safety Topi				N	1EHL	MACP
								[@	@		390		12	10.5	31	STICK	CONNEC						,		72.00kdaN	3109kPa
FOUR	3	SIC	NATUR	, 	DRILLE LLING		MBLY		MUD REG	CORD	JO	SH GILBER	DEVIATION					TIM	E LO		ART	TIME		20:00	E	ND TIN	Ē	24:00
	Number Size OC Code	5	15	1		159	-	0.20m	N		Water x	Oil 🗌	Time Depth	Deviation	Direction	Т	ype	20:00	-	Elapsed 3.75	-		HOLE FROM	M 0M-1705	M. WITH 10	MIN FC'S (ce & Remark 550M. 1050	S M/ FILL PIPE EVERY
	facturer Type	HALLIBU MM54R	RTON	1N	OTOR HS ON MAG M AP SUB	0NEL 121 125	68	8.70m 9.35m 1.71m	Funnel V	Density	23:00 1240 30s/l							23:45	24:00	0.25	7				OWER PIP		SECONDS T	O CLOSE
\$	Serial No Jets		1276293 3.7 8.7 8	.7 1N	ON MAG MO	ONEL 119 119 134	68	9.35m 9.32m	Flu Location of	pH	NIAKEDO.																	
	Out (m) th In (m)	8.7	170		HWDP	114	72 4	0.94m 6.80m 0.96m	Location of	Depth PVT	SHAKERS		Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density											
	ın Today			1X/		134	68	0.94m	CIRCULA Pump# Type	Liner Size	SPM Pres	sure Hours Rur	CENTRIFUGE	_	4 124	0 124	0											
Cumulative En	try Date	2016/01/0 RUCTI			rill Pipe	114 Sta	68 41 ands 119	1.84m 9.25m	2	140	0	0 0	MUD MA	Product			ount Type											
TI TO MDC	=		age DDC] b	Orill Pipe Kelly D	Sin	gles	0.00m 0.00m	Remarks:																			
LOC BRG	То	al Run (m			Weight of S	of DC String	58	4.55m OkdaN BkdaN																				JGGER LINE HOOK
METRE From 1			PM WOB	Hole		VIDITIO Up 2	Down	_	REDUCE Pump No. Pres			Depth						FUNCTI	ONED U	PPER & LO	WER TR		ITS & E- ST				PASON CHO	DAD LINE, IKE,MANUAL CHOKE
					at Bottom n Bottom		5500.	0.00m	,	@	@		Boiler Boiler #	Hours F	Run 4	pH 10.5	Stack Temp	SAF	ETY			Safety Topi				N	1EHL	MACP
1.3				_				L		@	@							TRIPPI	NG IN.								75.00kdaN	3059kPa

FRONT PA	AGE SUMMARY	Tour Sheet Serial Number Ver 0Y52529_20160109_1B Pasc Surface Location	Note	1) Daily Walk Around Inspection 2) Detailed Inspection - Weekly (Using Check List)	OP RM SDK MR SDK MR
31525 ARCRES HZ SUNRISE J2-25-78-1 Operator ARC RESOURCES Operator's AFE 16DRL0014	Contractor PRECISION DRILLING, D Contractor's Job No 75	V OF PDCLP 52	Spud Date Time 2016/01/04 17:30	5) Flare Lines Staked	pason)
Signature of Operator Representative Sheldon Kashuba	Signature of Contractor's MARC RAYMOND 5 6 7 8 9	10 11 12 13	Rig Release Date Time 2016/01/20 17:00 14 15 16 17 18 1	4) Crown Saver Checked 5) Motor Kills Checked	MR Pason Kelly Bushing Op Fuel 5.90 2731.00
Rig	Cond Mud Trins Rig Repair Cut Off	Dev Wireline Run Csg Wait On N	innie He Test Deilletem Dive Coverse	shing Dir Safety Tear Waiting Rig Down On Watch	FUEL @ 08:00 HOURS OBJECT OBJECT
Total 1.00 Total 17.00	0.50 1.75 0.25 0.50 1.75 1.00			0.50 2.25 1.50	4.00 Wind Direction Wind Strength N CALM 24.00 Rand Condition FAIR
TOUR 1 SIGNATURE OF	F DRILLER	JOSH GILBERT		START TIME 00:00	END TIME 08:00
Bit Number 5 No	RILLING ASSEMBLY MUD RECO	Type Water x Oil Time De	oth Deviation Direction Type	TIME LOG From To Elapsed Code Details of	Operations in Sequence & Remarks
IADC Code	 	Other 00:45 1718 00:45 1718 00:45 1718 00:45 1718 00:45 1718 00:45 1718 00:45 1718 00:45 1717	.05m 0.5 174.8		1705M-1873M ANNULAR/ 22 SECONDS TO CLOSE RE IN 103 SECONDS. CREW RESPONDED WELL. ALL
Type MM54R	1 NON MAG MONEL 121 68 9.35m De 1 GAP SUB 125 74 1.71m Funnel Visc 1 NON MAG MONEL 119 68 9.35m Fluid	sity 30s/l 31s/l 04:001806	i.8m 0.4 312.2	CHECKED WIND DIRECTIO	IN AND HEADED TO APPROPRIATE MUSTER POINT ONNECTIONS/TOOLFACE ORIENTATION.
Jets 8.7 8.7 8.7 8.7 8.7	1 NMDC 119 68 9.32m 1 X/O 134 61 0.94m Location of Sar	pH suction suction solid	05m 0.6 308 S CONTROL	07:45 08:00 0.2521 SAFETY MEETING/CREW C	CHANGE MEETING
	15 HWDP 114 72 46.80m 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Epth Equipm PVT Name ON CENTRIFU	e Run Density Density Density		
Hrs Run Today 6.25		er Size SPM Pressure Hours Run			
	2 SINGLE 6 Drill Pipe Stands 1345.00m	127 0 10500 0 MUD I	MATERIALS ADDED Product Amount Type 1 EACH		
TI	1	ALKAPAM PREVENTI	A1103D 1 EACH - ON 1 EACH -		
LOC Total Run (m/hr)	Weight of DC OkdaN Weight of String 72kdaN	NEWSTAB DEFOAME	R DSCO 1 EACH	Remarks: INSPECT FLOOR EQUIPMENT, TONG, BACK UP SLII	NGS,DEAD MAN,CAT HEAD,ST-80,TUGGER LINE HOOK
From To D-R-C RPM WOB H	lolo Brag of Z semin Z	PUMP SPEED		NSPECT CATWALK, PIPE RACKS, PIPE RACK PINS/CHAINS FUNCTIONED UPPER & LOWER TRAVEL LIMITS & E- STOPS, CRO	
		e Strokes/min Depth 2 50 @ 1731 Boiler		NSPECT STABBING VALVE/INSIDE BOP SAFETY Safety Topic	MEHL MACP
		2 @		PERRICK CONNECTIONS	85.00kdaN 3109kPa
TOUR 2 SIGNATURE OF	F DRILLER MUD RECO	SYLVAIN ARSENAULT	TION SURVEYS	START TIME 08:00	END TIME 20:00
Bit Number 5 No		Type Water x 0il Time Dep Other 09:15 1894	oth Deviation Direction Type 4.3m 0.4 328.9		Operations in Sequence & Remarks 1873M TO 2019 M.
IADC Code Manufacturer Type MM54R	1NON MAG MONEL 121 68 9.35m De	13:30 195	38m 1.1 113.7		PIPE RAM 4 SEC TO CLOSE
Type MM54R Serial No 12762932 Jets 8.7 8.7 8.7 8.7 8.7	1GAP SUB 125 74 1.71m Funnel Visc 1NON MAG MONEL 119 68 9.35m Fluid 1NMDC 119 68 9.32m	14:45 196	.05m 0.6 115		LIN 99 SECS PROCEDURE AND ALL PERSONEL AT MUSTER PERFORM MAN DOWN SEARCH ROUTE.
Depth Out (m)	1X/O 134 61 0.94m Location of Sai 15 HWDP 114 72 46.80m D	ppth 1890m 1960m Equipm	S CONTROL ent Hours Intake Over Flow Under Flow		
Depth In (m) 1705	1JARS-HYD/MECH 134 75 5.19m CIRCULATI	PVT 65m3 55m3 Name ON CENTRIFU			
Cumulative Hrs Run 16.00 Entry Date 2016/01/08	144 HWDP 114 68 411.84m 1SINGLE 2SINGLE	140 100 14300 12	MATERIALS ADDED		
TI Gage	Drill Pipe Stands 1521.00m	NEWSTAB PREVENTI	ON 1 EACH		
T0	Kelly Down	REDUCTION LIME CALCIUM I	2 EACH_		
	Weight of String 72kdaN OLE CONDITION			Remarks: INSPECT FLOOR EQUIPMENT, TONG, BACK UP SLII NSPECT CATWALK, PIPE RACKS, PIPE RACK PINS/CHAINS	,FLARE AND DEGASSER LINES,LOAD LINE,
1873m 2019m DRILL 25 12kdaN Toro	que at Bottom 5000.00Nm Pump No. Pressu	PUMP SPEED e Strokes/min Depth 50 @ 1990 Pailed		'UNCTIONED UPPER & LOWER TRAVEL LIMITS & E- STOPS,CRO' NSPECT STABBING VALVE/INSIDE BOP SAFETY	WN SAVER,IGNITER AND PASON CHOKE,MANUAL CHOKE
	0.0011	Boiler #	396 12 10.5 310	Safety Topic	MEHL MACP 75.00kdaN 3059kPa
TOUR 3 SIGNATURE OF	F DRILLER	JOSH GILBERT		START TIME 20:00	END TIME 24:00
BITS DI No No	RILLING ASSEMBLY MUD RECO	Type Water x Oil Time De		TIME LOG From To Elapsed Code Details of	Operations in Sequence & Remarks
Size	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Otherime			2019M-2025M. OWER PIPE RAMS/ 4 SECONDS TO CLOSE
Type MM54R Serial No 12762932	1NON MAG MONEL 121 68 9.35m De IGAP SUB 125 74 1.71m Funnel Visc 1NON MAG MONEL 119 68 9.35m Fluid	sity		21:15 21:45 0.50 CIRCULATE 21:45 22:00 0.25 SAFETY MEETING / CREW 22:00 23:45 1.75 TRIP OUT OF HOLE FROM 2	CHANGE MEETING 025M-711M/ WITH 10 MIN FC'S @ 2025M/ 1950M/ 1150M
Jets 8.7 8.7 8.7 8.7 8.7	1NMDC 119 68 9.32m 1X/O 134 61 0.94m Location of Sai		S CONTROL		RE IN 110 SECONDS. ALL MEMBERS TO MUSTER POINT. MAN
Depth Out (m) 2025 Depth In (m) 1705 Total Drilled (m) 320	DTIVE 114 72 40.00H	epth Equipm PVT Name	ent Hours Intake Over Flow Under Flow Density Density Density		
Hrs Run Today 1.00		er Size SPM Pressure Hours Run 140 100 9800 2			
	2 Drill Pipe Stands 1521.00m	127 0 9800 0 MUD I	MATERIALS ADDED Product Amount Type ON 4 EACH		
TI 5 Gage 159 TO 3 ODC BT MDC BT Reason Pulled PR	Company	1 RESSURE			
LOC A Total Run (m/hr) 18.82	Weight of DC OkdaN Weight of String 72kdaN		I I I⊨	Remarks: INSPECT FLOOR EQUIPMENT, TONG, BACK UP SLII	
From To D-R-C RPM WOB H	D	PUMP SPEED e Strokes/min Depth		NSPECT CATWALK,PIPE RACKS,PIPE RACK PINS/CHAINS FUNCTIONED UPPER & LOWER TRAVEL LIMITS & E-STOPS,CRO INSPECT STABBING VALVE/INSIDE BOP	
	ill on Bottom 0.00m	Boiler #		SAFETY Safety Topic	MEHL MACP
V.1.3		2 @		RIPPING OUT	95.00kdaN 3109kPa

License No We	ell Name	FRON'	T PAG	E SUM	IMARY	1			0Y5252	Sheet Serial 29_2016011 ce Location	10_1A	Vendo Pason	r Software V	ersion Loc Type	Unique W	Year 2016 ell Id	Month I	10	DAILY C 1) Daily Walk An 2) Detailed Inspi 3) H2S Signs Po	ound Inspec ection - We	ction ekly (Using Ch	neck List)	OP RIV SDK MR		CAO	DC
Operator ARC RESOURCES Operator's AFE 16DRL0014	CRES HZ SU		5-78-18				Contract 75	ON DRILLING or's Job No	, DIV OF P			Rig 529	No	Well Type HORIZ Spud Date 2016/01/04	Time 17:30	9-078-17W6/		Entry	4) Well Licence 5) Flare Lines St 6) BOP Drills Per 7) Visually Inspec 1) Rig Site Healt 2) CAODC Rig Si 3) Mast Inspecti	aked rformed ted BOPs - h & Safety afety Inspec	Flare Lines & D Meeting (one/ ction Checklis	Degasser Lines (crew/month) t (one/rig/mon]]	aso	
Signature of Operate Sheldon Kashuba	or Represen	ative 3	4	5	6	7		e of Contracto AYMOND	гs нід ма 10	11	12	13 1		2016/01/20		18	19	20	4) Crown Saver 5) Motor Kills Ch	Checked	23	24	MR_		Paso Kelly Bushing 5.90	Op Fuel 3725.00
Rig Up Tour 1	Drill Actual			Cond Mud & Circ	Trips	Rig Service	Repai Rig	ir Cut Off	Dev Survey		Run Csg & Cement	Wait On Cement B	le Up Tes	t Drillste	em Plug	Squeeze Cement	Fishing	Dir Work 2.1	Safety Meeting 75 1.00	Tear Down	Waiting On	Rig Watch		8.00 12.00	FUEL @ 08	Boiler
Tour 3 Total	3.50 12.50				3.25	0.2	5	0.75										0.: 5.:	25					4.00 24.00	Wind Direction N Road Condition FAIR	Wind Strength CALM
TOUR 1	SIG	NATUR	OF D	RILLE	R					JOS	SH GILBERT								STAR	T TIM	IE	00:00	E	ND TIME		08:00
BITS Bit Number	r 6			LING /		MBLY ID Le		MUD RE		Water x	Oil 🔲	DEVIATION Time Depth			1	уре	TIIV From	E LO	Elapsed Co	ode		Details of	Operations	s in Sequence	& Remarks	
Size IADC Code		159	1 MO	TOR HS	159 127	0	0.20m 8.66m		Time	ther							00:00	00:30	0.506B	CAL	C=9.02M/3.	ACTUAL = 1	11.62M/3. D	IFF = + 2.60M		NOM. FINAL TRIP
Manufacture Type Serial No	MM54R	TON 12381792	1 NO	AR BIT SU N MAG MO P SUB	_	68	1.37m 9.35m 1.71m	Funnel V	Density iscosity iid Loss								00:3	$\overline{}$	0.2521 2.7520	DIRE	CTIONAL WO		E BIT / CHAN	NGE MOTOR/ P		BIT SUB/ HANDLE
Jets			11	N MAG MO		68	9.35m 9.32m	Location of	pН			SOLIDS	CONTR	OL			03:3	0 03:45	0.257 0.2521	RIG :	SERVICE/ F	UNCTION E	BLIND RAM	IS OUT OF HO	LE	IO. WAIT ON BIT
Depth Out (m Depth In (m)	2025	1 X/C) IWDP	134 114	72 4	0.94m 6.80m		Depth PVT			Equipment Name		1	Over Flow Density	Under Flor Density	04:3	04:45	0.506A 0.2521	SAFE	ETY MEETII		TO SLIP CU	IT/ COP 6-4A		
Total Drilled (m) Hrs Run Today	/		1	RS-HYD/ME		75	5.19m P	ump# Type	Liner Size		ssure Hours Rur		+				04:4		0.759A	STO	PS/LIMITA					N CROWN SAVER/
Cumulative Hrs Rur Entry Date CUTTING ST	2016/01/10			HWDP rill Pipe		68 41	0.94m 1.84m 0.00m	1 SINGLE 2 SINGLE	_		5000 1 5000 0	MUD M	ATIERIA Product			ount Type	05:3	-	2.256A 0.2521	\rightarrow		NG/ CREW		1000M/ FILL F	TPE EVERT	000 METERS
TI TO	Ga OI	ge		rill Pipe Kelly Do	Sin	igles	0.00m	Remarks:				NEW WASH				2	PL									
LOC To	Reason Pullotal Run (m/l			Weight of			6.63m OkdaN										-									
BRG	ILLED D-R-C RPI	M WOB		eight of St	DITIO		2kdaN	REDUCE	D PUM	IP SPE	ED						INSPE	CT CATV	VALK,PIPE R.	ACKS,PIF	PE RACK PI	NS/CHAINS	FLARE AN	ID DEGASSER	R LINES,LOAD	ER LINE HOOK LINE, MANUAL CHOKE
			Torque a	t Bottom Bottom			Pı	ump No. Pres 1 6000	@	65 @	Depth 2020	Boiler Boiler #	Hours F	Run	pH	Stack Temp	INSPE		BING VALVE							
			_						@	@		39		8	11	2		NG IN		Safety	Topic			ME	HL 58.00kdaN	MACP 3109kPa
TOUR 2	SIG	NATUR	€ OF D	RILLE	R					SYLVAIN A	ARSENAULT								STAR	T TIM	IE	08:00	E	ND TIME		20:00
BITS Bit Number			No	Componer	nt OD	ID Le		MUD REG	Aud Type	Water ×	Oil 🗌	Time Depth	Deviation	Direction		уре	From	_	Elapsed Co	$\overline{}$				s in Sequence	& Remarks	
Size IADC Code Manufacture		159	1MC	TOR HS	159 127 B 129	0 1	3.66m 1.37m		Time Density	15:00 1240		08:30 2026.45r 09:45 2040.88r 10:30 2054.5r	n 1.7				17:00 19:30	19:30	9.00 2 2.50 20/ 0.25 7	A DIRE	CTIONAL S	OLE FROM SURVEYS,C	ONNECTIO		205	
Type Serial No	MM54R	12381792	1NO	N MAG MOI	_	68 9	9.35m	Funnel V		30s/l		10:45 2057n	n 3.5 n 5.6	118.35 98.1			19:45	1	0.2521		W CHANGE		FIFE RAWIA	4320 10 020	73E	
Jets	8.7	7 8.7 8.3	1NM		119	68 9	9.35m 9.32m	Location of		SHAKER		14:30 2084.5n 16:15 2099.38n SOLIDS	n 11.3	84.3												
Depth Out (m) Depth In (m) Total Drilled (m))	2025		IWDP	134	72 4	0.94m 6.80m 0.96m	CIRCULA	Depth PVT	2090m 48m3		Equipment Name CENTRIFUGE	Run	Density	Over Flow Density	Density										
Hrs Run Today Cumulative Hrs Rur	/	9.00	1 1 JAF	RS-HYD/ME	ECH 134	75		ump# Type	Liner Size		ssure Hours Rur 2400 8															
CUTTING ST		RE	56 Dr	SINGLES C /DP rill Pipe	Sta	ands 163	1.84m 3.00m	2SINGLE			2400 0	PREVENTION	Product			ount Type										
TI TO MDC	Ga OI Reason Pull	С	d Dr	rill Pipe Kelly Do		-	2.63m F 2.00m	Remarks:				REDUCTION NEW WASH				4 EAG										
LOC TO	otal Run (m/l		w	Weight of eight of St	f DC		kdaN 5kdaN										Rema	rks: INS	PECT FLOOR	EQUIPME	NT,TONG,B	ACK UP SLI	NGS,DEAD I	MAN,CAT HEA	D,ST-80,TUGO	SER LINE HOOK
	-R-C RPI	_	Hole [Down		REDUCE									FUNCT	IONED UP	PPER & LOWE	R TRAVEL	LIMITS & E-			ID DEGASSEF IGNITER AND F		LINE, MANUAL CHOKE
2025m 2142m	DRILL	20 12kdaN	11 101 400 0	Bottom Bottom		6500	0.00m	ump No. Pres 1 3500	ssure Str @	50 @	Depth 2090	Boiler #	Hours P	Run 12	pH 11	Stack Temp	SAF	ETY	BING VALVE	/INSIDE E				ME	HL I	MACP
			j						@	@		j	90	12	- ''	2	TRIP IN	١							76.00kdaN	3009kPa
TOUR 3 BITS	SIG	NATURI		RILLE		MRIV		MUD REG	CORD	JOS	SH GILBER	DEVIATI	ON SUE	RVEVS			TIM	E LO		T TIM	IE	20:00	E	ND TIME		24:00
Bit Number		159		Componen		ID Le			Aud Type	Water x	Oil 🗌	Time Depth 20:00 2143n	Deviation		1	уре	From 20:00	To	Elapsed Co	_	L 159mm H	Details of OLE FROM	•	s in Sequence	& Remarks	
IADC Code Manufacture	r HALLIBUR	TON		OTOR HS AR BIT SU	127 B 129		8.66m 1.37m		Time Density			21:45 2157.88r	n 19.2	79.1			23:30	23:45	0.25 20/ 0.25 7	A DIRE	CTIONAL S	SURVEYS/C	ONNECTIO		CONDS TO C	LOSE
Type Serial No Jets		12381792	1GA	IN MAG MO IP SUB IN MAG INEL		74	9.35m 1.71m 9.35m	Funnel V Flu	iscosity aid Loss pH																	
Depth Out (m)	8.7	0.7 0	1 MO 1 NM	IDC	119	68	9.32m 0.94m	Location of				SOLIDS Equipment			Over Flow	Under Flo	,									
Depth In (m Total Drilled (m		2025	15 H	IWDP	140	72 4	6.80m	CIRCULA	PVT TION			Name	Run	Density	Density	Density										
Hrs Run Today Cumulative Hrs Run		3.50 12.50	1X/C	RS-HYD/ME SINGLES OF	134	68	0.94m	ump# Type 1SINGLE	140	100 10	SSURE Hours Rur	MUD MA	ATERIA	S ADD	ED											
CUTTING ST			58 Dr	rill Pipe rill Pipe	Sta	ands 169	1.84m 6.50m 0.00m	2SINGLE	127	0 10	0500 0	NEW WASH	Product			ount Type	PL									
	OI Reason Pull	OC ed		Kelly Do	own Total	-2	\neg	Remarks:																		
BRG TO	otal Run (m/l	nr)		Weight of	ring	6	0kdaN 5kdaN												-					MAN,CAT HEA		SER LINE HOOK
From To D	DRILL	W W W W W W W W W W W W W W W W W W W	Hole [Drag Up		Down		REDUCE ump No. Pres	D PUN		Depth	B''					FUNCT	IONED UF		R TRAVEL	LIMITS & E-					MANUAL CHOKE
			1	Bottom			0.00m	1 3800	@	55 @ @	2175	Boiler Boiler #		Run 4	pH 11	Stack Temp	SAF	ETY		Safety				ME		MACP
V. 1.3			J				L		@	@							DERRI	CK CON	NECTIONS					1	00.00kdaN	3109kPa

FRONT PAGE SUMMARY	Tour Sheet Serial Number 0Y52529_20160111_1A	Pason 2016	Month Day 11 Day Walk Around Inspection 1 Daily Walk Around Inspection 2 Detailed Inspection - Weekly (Using Check List)
Well Name 31525 ARCRES HZ SUNRISE J2-25-78-18 Operator	Surface Location 12-25-078-18W6 Contractor	Prov Loc Type Unique Well Id 102/09-19-078-17W6/00 Rig No Well Type	3) HZS Signs Posted if Required 3) HZS Signs Posted if Required 4) Well Licence, & Sick Diagram Posted 5) Flare Lines Staked Re_Edity [8] 80 PD rills Performed
RC RESOURCES Operator's AFE	PRECISION DRILLING, DIV OF PDCLP Contractor's Job No	529 HORIZ Spud Date Time	7) Visually inspected 60Ps - Rare Lines & Degasser Lines SDK MR 1) Rig Site Health & Safety Meeting (one/crew/month)
6DRL0014 Signature of Operator Representative Sheldon Kashuba	75 Signature of Contractor's Rig Manager MARC RAYMOND	2016/01/04 17:30 Rig Release Date Time 2016/01/20 17:00	2 (AGOC Rig Safety Inspection Checklist (one/rig/month) 3) Mast Inspection Dether Raising or Lowering 4) Crown Saver Checked 5) Moltor Kills Checked MR. Pason
CODE 1 2 3 4 5 6 7	8 9 10 11 12 Repair Cut Off Dev Wireline Run Csq	13 14 15 16 17 18 Wait On Nipple Up Test Drillstem Plug Squeeze	19 20 21 22 23 24 25 Full Light Safety Tear Waiting Rig Out 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Up Actual Reaning Coning & Circ Inps Service 2 Tour 1 6.25 0.2 0.2	Rig Drilg Line Survey Logs & Cement	Cement BOP BOP Test Back Cement	
Tour 2 5.75 0.50 2.25 0.2 Tour 3 3.75 0.2 Total 12.00 0.50 6.00 0.7	5		2.50 0.75 12.00 CILEAR CONSISTS CILE
TOUR 1 SIGNATURE OF DRILLER	JOSH GILBER		START TIME 00:00 END TIME 08:00
BITS DRILLING ASSEMBLY	MUD RECORD	DEVIATION SURVEYS	TIME LOG
	0.20m Other	Time Depth Deviation Direction Type	From To Elapsed Code Details of Operations in Sequence & Remarks 00:00 06:15 6.252 DRILL 159mm HOLE FROM 2175M- 2229M
Manufacturer HALLIBURTON 1 NEAR BIT SUB 129 0	3.66m Time 02:00 06:00 1.37m Density 1260 1260 9.35m Funnel Viscosity 30s/l 30s/	05:45 2216.38m 29.1 74.7	06:14 07:30 1.25 pa DIRECTIONAL SURVEYS/CONNECTIONS/TOOLFACE ORIENTATION. 07:38 07:48 0.25 RIG SERVICE/FUNCTION ANNULAR/ 22 SECONDS TO CLOSE 07:45 08:00 0.25 1 SAFETY MEETING/CREW CHANGE MEETING
Serial No 12381792 1 GAP SUB 125 74	1.71m Fluid Loss 9.35m pH		07.45 08.00 0.2521 SAFETY MEETING/CREW CHANGE MEETING
8.7 1 NMDC 119 68	9.32m Location of Sample suction Depth	SOLIDS CONTROL Equipment Hours Intake Over Flow Under Flow	
Total Drilled (m) 204 1 X/O 134 75	5.80m PVT D.96m CIRCULATION	Name Run Density Density Density	
Cumulative Hrs Run 18.75 1 X/O 134 68	5.19m Pump# Type Liner Size SPM Pressure Hours Rur 0.94m 1 SINGLE 140 87 10500 7 1.84m 2 SINGLE 127 0 10500 0	MUD MATERIALS ADDED	
CUTTING STRUCTURE 59 Drill Pipe Stands 172	1.84m 2SINGLE 127 0 10500 C 5.75m 0.00m	Product Amount Type	
TO ODC Kelly Down	3.00m Remarks: 9.38m		
BRG Weight of String 7	OkdaN OkdaN		Remarks: INSPECT FLOOR EQUIPMENT,TONG,BACK UP SLINGS,DEAD MAN,CAT HEAD,ST-80,TUGGER LINE HOOK
METRES DRILLED	Down No. Down Obstacles (see Down		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
	0.00m 1 3600 @ 49 @ 2202 @ @	Boiler	SAFETY Safaty Tonic MEHI MACD
	@ @	000 0 000 310	DERRICK CONNECTIONS 100.00kdaN 3109kPa
TOUR 2 SIGNATURE OF DRILLER BITS DRILLING ASSEMBLY	SYLVAIN ARSENAUL	DEVIATION SURVEYS	START TIME 08:00 END TIME 20:00
Bit Number 6 No Component OD ID Le		Time Depth Deviation Direction Type 08:15 2231.2m 32.3 75	From To Elapsed Code Details of Operations in Sequence & Remarks 08:00 13:45 5:75 DRILL 159MM 2229M TO 2260M
IADC Code 1MOTOR HS 127 0	3.66m Time 08:00	11:15 2245.63m 35 74.5	13:45 15:30 1.75 20A DIRECTIONAL SURVEYS, CONNECTION TIME 15:30 15:45 0.25 RIG SERVICE FOT UPPER PIPE RAM 4 SEC TO CLOSE
Serial No 12381792 1GAP SUB 125 74	9.35m Funnel Viscosity 30s/l 1.71m Fluid Loss		15:45 16:15 0.50 CIRCULATE BOTTOM UP PRIOR TO TRIP OUT 16:15 16:30 0.25 21 SAFETY MEETING ON TRIPPING OUT REV COP 2-4
8.7 1NMDC 119 68	9.35m	SOLIDS CONTROL	16:30 18:45 2.25 BB TSIP OUT OF HOLE 10 MIN FLOW CHECK ON BOTTOM AND @2116.1151M.500M @ TOOL \$80.0M TRIP CALL WAS 9,64M3 ACTUAL WAS 10.44 M/3. ACTUAL = 1.00 M/3 SAFETY MEETING WITH DO ON HANDLE BHA/AND CREW CHANGE MEETING
Depth In (m) 2025 15 HWDP 140 72 4	9.94m PVT 2226m PVT 47m3 CIRCULATION	Equipment Name Run Density Den	19:00 19:45 0.75 20 DIRECTIONAL WORK, RACK BACK MONEL, DRAIN MOTOR, CHANGE OUT BIT
Hrs Run Today 5.75 1JARS-HYD/MECH 134 75 Cumulative Hrs Run 24.50 1x/O 134 68	5.19m Pump# Type Liner Size SPM Pressure Hours Rui 0.94m 1SINGLE 140 87 12000 12		
	5.00m	MUD MATERIALS ADDED	
TO 2 ODC BT Kelly Down .	0.00m Remarks:	CALCIUM NITRATE 30 EACH	
LOC A Total Run (m/hr) 9.59 Weight of DC	kdaN kdaN		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 PINSICHAINS,FLARE AND DEGASSER LINES,LOAD LINE, FUNCTIONED UPPER & LOWER TRAVEL LIMITS & E- STOPS,CROWN SAVER,IGNITER AND PASON CHOKE,MANUAL CHOKE
2229m 2260m DRILL 20 13kdaN Torque at Bottom 5000 Fill on Bottom Fill on Bottom 5000	00Nm Pump No. Pressure Strokes/min Depth 0.00m 1 3600 6 50 6 2240 0 <td>Boller # Hours Hull ph Stack Tellip</td> <td>INSPECT STABBING VALVE/INSIDE BOP SAFETY Safety Topic MEHL MACP</td>	Boller # Hours Hull ph Stack Tellip	INSPECT STABBING VALVE/INSIDE BOP SAFETY Safety Topic MEHL MACP
	@ @	396 12 10.5 310	HOUSEKEEPING 120.00kdaN 2960kPa
TOUR 3 SIGNATURE OF DRILLER	JOSH GILBER	1	START TIME 20:00 END TIME 24:00
DRILLING ASSEMBLY		DEVIATION SURVEYS Time Depth Deviation Direction Type	TIME LOG From To Elapsed Code Details of Operations in Sequence & Remarks
IADC Code 1 1MOTOR HS 127 0	0.20m Other		20:00 23:45 3.75 BA TRIP IN HOLE FILL PIPE EVERY 500M FLOW CHECK 10MIN @ 500M.1000M.TIGHT SPOT @ 1650M.WASH ND REAM F/1650-1683/m
Type R613 1NON MAG MONEL 121 68 Serial No JK9589 1GAP SUB 125 74	9.35m Funnel Viscosity 1.71m Fluid Loss		Established Value Note Not
	9.35m pH solution of Sample solu	SOLIDS CONTROL	
Depth In (m) 2260 15 HWDP 140 72 4	0.94m Depth 6.80m PVT 0.96m CIRCULATION	Equipment Name Run Density Density Under Flow Density	
Hrs Run Today 1JARS-HYD/MECH 134 75	5.19m Pump# Type Liner Size SPM Pressure Hours Run 0.94m 1SINGLE 140 87 10000 1		
CUTTING STRUCTURE 60 Drill Pipe Stands 175	1.84m 2SINGLE 127 0 10000 0	MUD MATERIALS ADDED Product Amount Type	
TO ODC Kelly Down	0.00m		
LOC Total Run (m/hr) Weight of DC	0.00m OkdaN 4kdaN		Remarks: INSPECT FLOOR EQUIPMENT, TONG, BACK UP SLINGS, DEAD MAN, CAT HEAD, ST-80, TUGGER LINE HOOK
	1	J	
METRES DRILLED	REDUCED PUMP SPEED		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
	REDUCED PUMP SPEED Pump No. Pressure Strokes/min Depth 1 4900 @ 50 @ 2150	Boiler Boiler# Hours Run pH Stack Temp	FUNCTIONED UPPER & LOWER TRAVEL LIMITS & E - STOPS, GROWN SAVER IGNITER AND PASON CHOKE, MANUAL CHOKE INSPECT STABBING VALVE/INSIDE BOP

icense No		/ell Name			GE SUN	MARY	,			OY5252 Surfac	Sheet Seria 9_2016011 ce Location		Vendo Pason	r Software Prov	Loc Type		Year 2016 ue Well Id	Month 01	Day 12	1) Dail 2) Det 3) H2S	Signs Post	nd Inspect tion - Weel ed if Requi	tion kly (Using Ch ired	heck List)	OP RI SDK MR	∄ ((CAC	DC
31525 Operator RC RESO Operator's 6DRL0014	URCES AFE	tor Repres	SUNRISE J2-2	25-78-18			F () 7	Contrac 75	tor SION DRILLING, tor's Job No re of Contractor	DIV OF P			Rig I 529	BC No	Well Type HORIZ Spud Dai 2016/01/0	te Time	09-19-078-17W	6/00	Re-Entry	5) Flar 6) BOF 7) Visu 1) Rig 2) CAC 3) Mas	e Lines Stal P Drills Perfo ally Inspecte Site Health DDC Rig Saf st Inspection	ked irmed d BOPs - Fl & Safety M ety Inspect i before Ra	Meeting (one/	/crew/month) st (one/rig/mo	SDK MR SDK MR SDK MR SDK MR		asc	on)
heldon Ka	shuba	2	3	4	5	6	7	MARC F	RAYMOND 9	10	11	12	13 1		2016/01/2 5 1 0	0 17:00 6 1	17 18	19		5) Mot	wn Saver Cl or Kills Che 21	22	23	24	25		Kelly Bushing 5.90	0p Fuel 2170.00 08:00 HOURS
Tour 1	Rig Up	Drill Actua 4.	50	Coring	Cond Mud & Circ	2.50	Rig Service 0.25 0.25			Dev Survey	Wireline Logs	Run Csg & Cement	Wait On Nippl Cement BC	le Up Te: DP BC	st Drills P Te		Plug Squeez lack Cemer			0.50 1.50	Safety Meeting 0.25 0.25	Tear Down	Waiting On	Rig Watch	Other	8.00 12.00	Time Current Con CLEAR	125.00 Boiler 0.00 Temp 06:00 -22.00 ditions
Tour 3 Total	0 4	17.		E OF	1.00		0.25 0.75	+			SYLVAIN A	DOENAIII								0.25 2.25	0.50 START	TIM	-			4.00 24.00	FAIR	ion Wind Strength CALM
BITS	it Numb		GNATOR	_	LLING Compone	ASSE	MBLY ID Len		MUD REC	ORD	Water x		DEVIATI Time Depth				Туре		IME L	.og	sed Coo		-	Details o	-		e & Remarks	08:00
	Si: ADC Coo nufactur	le	15	1 M	IT NOTOR HS IEAR BIT SU	159 127	0 0	.20m .66m		Time Density	04:30 1300		06:152274.88m	40.7	7	6			02:30 07	:00	2.50 6A 4.50 2 0.50 20A	DRILL	. 159MM H	OLE FROM	A 2260M-228			ROM 2160M-2260M
	Typ Serial N Je	ts 7.9	JK958	9 1 G	ON MAG MO AP SUB ON MAG MO	125 ONEL 119	74 1 68 9	.35m .71m .35m		id Loss pH	31s/l								07:30 07 07:45 08		0.257 0.2521				ANNULAR /- CHANGE M	4 SECONDS EETING	TO CLOSE	
De	th Out (r	n) n)	7.9	1 X	HWDP	119 134 140	61 0. 72 46	.32m .94m .80m	Location of S	Depth PVT	SHAKERS		SOLIDS Equipment Name CENTRIFUGE	Hours Run	Intake Densit	y Den	nsity Densi	ty										
Hrs I Cumulativ		ıy	4.5	0 1 J	ARS-HYD/N	134	75 5 68 0	.19m .94m	Pump# Type 1 SINGLE 2 SINGLE	Liner Size 140		500 5	MUD MA		8 13		1295	1700										
		RUCT		61 E	Drill Pipe Drill Pipe Kelly D	Sta Sin	nds 1784 gles 0	.25m .00m	Remarks:	127	0 10	500 0	WALNUT MED NEW WASH	Produc				pe ACH ACH										
MDC LOC BRG		Reason P Total Run (r	m/hr)			Total												Re	emarks:	INSPECT	FLOOR E	QUIPMEN	NT,TONG,B	BACK UP SL	INGS,DEAD	MAN,CAT HI	AD,ST-80,TU	GGER LINE HOOK
From		D-R-C I	RPM W0B 20 11kda	Hole	Drag use at Bottom	VIDITIO Up 7		<u> </u>	REDUCE Pump No. Pres	sure Str	okes/min	Depth	Boiler					FU	NCTIONE SPECT S	UPPER TABBING		TRAVEL L	IMITS & E-				PASON CHO	AD LINE, KE,MANUAL CHOKE
				Fill o	on Bottom		0	.00m	1 3700	@ :	0 0 0	2259	Boiler #	Hours 6	Run 8	pH 1	Stack Ter	310	AFET			Safety T	opic				EHL 118.00kdaN	MACP 3109kPa
FOUI	R 2	SI	GNATUR		DRILLE		MRIV	_	MUD REG	`OPD	JOS	H GILBER	DEVIATI	ON SII	DVEVS			1	IME L		STAR	TIMI	E	08:00	0 =	ND TIM	E	20:00
В	it Numb Si: ADC Coo	re	15	No 18	Compone		ID Len o o.			lud Type	Water ther	Oil X	Time Depth 08:30 2289.25m 11:30 2304.13m	Deviation 44.	Direction 75.	6	Туре	Fr	om To	:30	4.50 2 0.25 20A	DRILL		ROM 2284	of Operation M TO 2309M	1	e & Remarks	3
Mai	nufactur Typ Serial N	SMITH R613	JK958	1N	IEAR BIT SU ION MAG MO	JB 129	0 1. 68 9.	.37m .35m	Funnel Vi	Density scosity id Loss	1250		17:15 2318.65m	46.	71.	3			2:45 13 3:00 14 4:00 18	:00	0.25 7 1.00 5B 4.50 2	RIG S	ACE WELL	CT UPPER L BORE TO	PIPE 4 SEC	C TO CLOSE		
	Je th Out (r	7.9 n)	7.9 7.9 7. 7.9	1N	ION MAG MO IMDC //O	ONEL 119 119 134	68 9.	.35m .32m .94m	Location of S	Depth	SUCTION		SOLIDS Equipment	Hours	Intake		Flow Under F	low	8:30 19 9:45 20	$\overline{}$	1.25 20A 0.25 21			SURVEYS,C	CONNECTIO	ON TIME		
Total I Hrs I	epth In (r Orilled (r Run Toda	n)	226 6 9.0	6 1X	ARS-HYD/M	$\overline{}$	75 0. 75 5.	.19m	CIRCULA Pump# Type	Liner Size		$\overline{}$	Name	Run	Densit	y Den	nsity Densi	ty										
	Intry Da	2016/01		1 ⁴ - 63 [4 SINGLES WDP Drill Pipe Drill Pipe	Sta	68 411. nds 1842.	—⊢	1SINGLE 2SINGLE	140		1000 12	MUD MA	Produc		DED	Amount Ty	ре										
TO MDC LOC	= .		ODC ulled		Kelly D	Total	-23. 2326.	.38m	Remarks:																			
From	То		RPM WOB	Hole	Weight of S LE CON Drag	-	N		REDUCE									INS	SPECT C	ATWALK D UPPER	"PIPE RA & LOWER	CKS,PIPE	E RACK PI LIMITS & E-	NS/CHAINS	S,FLARE AN	ND DEGASS	ER LINES,LO	GGER LINE HOOK AD LINE, KE,MANUAL CHOKE
2284m	2326m	DRILL	2010.5kda	- I rorquo	at Bottom on Bottom		7500.0	00Nm =	Pump No. Pres 1 6500		okes/min 50 @ @	Depth 2318	Boiler Boiler #	Hours 6	Run 12	pH 1	Stack Ter	np 310	AFET IVING		VALVE/I	Safety T				N	EHL 94.00kdaN	MACP 2960kPa
ΓΟUI	R 3	SI	GNATUR	E OF	DRILLE	ER						N STEWAR	1							;	STAR	ТІМІ	E	20:00	0 [ND TIM		24:00
B ITS	it Numb Si:		15	No	LLING Compone	_	ID Len		MUD REC	lud Type	Water	Oil 🗴	DEVIATI Time Depth				Туре	Fr	om To	Elap	sed Coo	_	. 159mm H	Details o		s in Sequen	e & Remarks	3
	ADC Coo nufactur Tyj	er SMITH		1N	OTOR HS EAR BIT SU ION MAG M	127 UB 129	0 8	3.66m 1.37m 9.35m	Funnel Vi	Time Density scosity	20:00 1250 66s/l	23:00 1250 65s/							23:30 23 23:45 24	:45	0.25 20A 0.25 7	DIREC	CTIONAL S	SURVEYS/C	CONNECTIO		ACE ORIENT EC TO CLOS	
	Serial N Je	7.9	JK958 7.9 7.9 7.	.9 1 ^N	AP SUB ION MAG IONEL IMDC	125 119 119	68 9 68 9	9.35m 9.32m	Flu Location of S		SHAKER	SHAKER	SOLIDS	CONTE	ROL													
De Total I	th Out (r pth In (r Orilled (r Run Toda	n) n)	226 8 3.5	i0 15	/O HWDP /O	134 140 134	72 46 75 0		CIRCULA		2326m 55.7m3	2338m 55m3	Equipment Name	Hours Run	Intake Densit		Flow Under F Densi											
Cumulativ E	e Hrs Ru Entry Da		13.5	0 1X	ARS-HYD/N /O 4 SINGLES C WDP Drill Pipe	134 DF 114	68 0).94m I.84m	Pump# Type 1SINGLE 2SINGLE	140 127	84 18	900 4	MUD MA	TERIA Produc		DED	Amount Ty			+		+						
TI TO MDC		Reason P	Gage ODC ulled		Drill Pipe Kelly D	Sin Down Total	gles o).00m).00m	Remarks:				OPTI-MUL OPTI-PLUS OPTI-WET BENTONE 920)			2 E	ACH ACH ACH		\pm								
	S D	otal Run (ı		НО	Weight of S Weight of S	itring	82 N	kdaN kdaN	2-2-2-2				CALCIUM NIT					ACH Re	SPECT C	ATWALK	,PIPE RA	CKS,PIPE	E RACK PI	NS/CHAINS	S,FLARE AN	ND DEGASS	R LINES,LO	
_	To 2341m	D-R-C I	RPM WOB 20 13kda	N Torque	e Drag u at Bottom on Bottom	Jp 6	6000.0		Pump No. Pres 1 6600	sure Str		Depth 2340	Boiler #	Hours	Run	рН	Stack Tei	np INS		TABBING	& LOWER VALVE/I		OP	STOPS,CR0	OWN SAVER		PASON CHO	KE,MANUAL CHOKE
1.3				1				Ŀ		@	@		39	16	4	1	10.5	310 BO	P DRILL			outely I	opio			N	90.00kdaN	2960kPa

License N		Vell Name			GE SUN	ИМАР	Y			OY525 Surfa	Sheet Seria 29_2016011 ce Location	13_1A	Vendo Pason		Loc Type	Unique We	2016 II ld	01	13	DAILY C 1) Daily Walk Ard 2) Detailed Inspe 3) H2S Signs Po	ound Inspec ection - Wei sted if Requ	ction ekly (Using Ch uired		OP R DB MR		CAC	DC
	OURCES S AFE 4 of Opera		Z SUNRISE J2- sentative	-25-78-1	3			Contr 75 Signa	cision DRILLIF actor's Job No ture of Contrac	NG, DIV OF			Rig I 529	No		Time 17:30 e Date Time	-078-17W6/0		Entry 8	4) Well Licence & 5) Flare Lines St 5) BOP Drills Per 7) Visually Inspec 1) Rig Site Healt 2) CAODC Rig Sa 3) Mast Inspecti 4) Crown Saver	aked formed ted BOPs = 1 h & Safety I afety Inspec on before R	Flare Lines & D Meeting (one/ction Checklist	egasser Lines crew/month) t (one/rig/mor		P	asi	son
Dean Boel	1	2	3	4	5	6	7	,	8 9	10	11	12	13 1	4 15		17	18	19	20	5) Motor Kills Ch	ecked 22	23	24	25		Kelly Bushing 5.90	0p Fuel 2375.00 08:00 HOUR
Tour 1 Tour 2 Tour 3	Rig Up	10	7.25 0.75	Coring	Cond Muc & Circ	Trips	Serv	0.25 0.25	epair Cut 01 Rig Drilg Li	ff Dev ne Survey	Wireline Logs	Run Csg & Cement		le Up Test	t Drillste Test		Squeeze Cement	Fishing	Dir Work	0.50 75 0.25	Tear Down	Waiting On	Rig Watch	Other	8.00 12.00	Rig	750.00 Boiler 0.0 Temp 06:00 -22.0 ditions Wind Strength
Total		21	1.25				_	0.25											1.2	25 0.75					24.00	N Road Condi FAIR	CALM tion
TOU BITS	R 1	S	IGNATUR		DRILLI		MBL	.Y	MUD RI	ECORD	DUNCAN	N STEWAR	DEVIATI	ON SUF	RVEYS			TIM	E LO		T TIM	IE	00:00	E	END TIM	E	08:00
	Bit Numb Si IADC Co anufactur Ty	de de SMITH		1	Compone BIT MOTOR HS NEAR BIT SI NON MAG M	1: 1: UB 1:	59 0	0.20m 8.66m 1.37m 9.35m	Funne		Water	0il x 05:00 1230 64s/		53.2	73.6 75	Ту	/pe	From 00:00		Elapsed Co 0.2521A	SOUF READ	Y TO RESCU	CREW WEN	IT TO UP W	LER PACKED	AREA AND WE	S RE PACKED UP AN WAS SHUT IN 57SE N. THROUGH UPPE
De	Serial I Je pth Out (7.9 7.9	JK95 7.9 7.9 7 7.9	7.9 1	GAP SUB NON MAG M NMDC X/O	ONEL 1	\rightarrow	1.71m 9.35m 9.32m 0.94m		Fluid Loss pH of Sample Depth	SHAKERS 2348m	SHAKERS 2360m	SOLIDS Equipment	CONTR	OL Intake	Over Flow	Under Flow	00:15 07:30 07:45	07:45	7.252 0.257 0.2521	RIG S		JNCTION A	NNULAR :	M 2341M TO 2 23 SECONDS		
Total Hrs Cumulati		m) ay un	22 1 7. 23.	12 1 25 1 00 1	5 HWDP X/O JARS-HYD/N X/O	1: MECH 1:	40 72 34 75 34 75 34 68	46.80m 0.96m 5.19m 0.94m	CIRCUL Pump# Typ	e Liner Size		54m3 ssure Hours Rui 3800 8	Name CENTRIFUGE	Run	Density 2 1250	Density 1210	Density 166	50									
		TRUCT	Gage ODC	64	44 SINGLES OF HWDP Drill Pipe Drill Pipe Kelly [S	ingles	411.84m 1872.00m 0.00m -6.63m 2372.00m	2SING Remarks:	LE 127	0 18	3800 0	BARITE	Product			ount Type 138 EAC	H									
LOC BRG		Total Run	(m/hr)		Weight of S DLE CO le Drag	of DC	ON	0kdaN 82kdaN	REDUC			ED						INSPE	CT CATV	VALK,PIPE RA	ACKS,PIP	PE RACK PI	NS/CHAINS	S,FLARE A	ND DEGASS	ER LINES,LC	IGGER LINE HOOK DAD LINE, KE,MANUAL CHOK
2341m	2372m	DRILL	15 10kda	1019	ue at Bottom on Bottom		34	00.00Nm 0.00m	Pump No. P	$\overline{}$	rokes/min 84 @ @ @	Depth 2360	Boiler Boiler #	Hours R	lun 8	pH 10	Stack Temp 21	SAF	ETY ETY	BING VALVE	/INSIDE E				N	EHL 91.00kdaN	MACP 2960kF
TOU	R 2	s	IGNATUR	_							JOS	SH GILBER						1			T TIM	IE	08:00		END TIM	E	20:00
	Bit Numb Si IADC Co anufactur Ty Serial I	ze de SMITH	JK95	No 59 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Compone BIT MOTOR HS NEAR BIT SI NON MAG MO GAP SUB	1: 1: UB 1: ONEL 1:	D ID 59 0 27 0 29 0		!	Mud Type	Water	0il x 11:00 1230 72si	16:00 2406n			Ту	/pe	From 08:00 18:45 19:30 19:45	18:45 19:30 19:45	Elapsed Co 10.75 2 0.75 204 0.25 7 0.25 21	DRIL A DIRE RIG S	CTIONAL S	JILD SECTI URVEYS/C JNCTION U	ION FROM CONNECTION JPPER PIP	ns in Sequent 1 2372M- 242 ONS PE RAMS 4 SI	7M	
Total	pth Out (lepth In (Drilled (Run Tod	m) m) ay	7.9 7.9 7 7.9 22 10. 34.	1 60 1 67 1 75 1	NON MAG MONDO X/O 5 HWDP X/O JARS-HYD/N X/O	1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1:	19 68 19 68 34 61 40 72 34 75 34 75 34 68	9.35m 9.32m 0.94m 46.80m 0.96m 5.19m 0.94m	Location CIRCUL Pump# Typ 1 SING	Depth PVT ATION e Liner Size			Equipment Name		_	Over Flow Density	Under Flow Density	0									
		TRUCI	Gage ODC	66	44 SINGLES HWDP Drill Pipe Drill Pipe Kelly [OF 1	14 68 tands 1 ingles	411.84m 1920.37m 0.00m 0.00m	2SING Remarks:			0500 0	BARITE OPTI-MUL OPTI-WET OPTI-GLIDE	Product			ount Type 84 EAC 1 EAC 1 EAC 2 EAC	H									
LOC BRG MI=TIR From	ES D	Total Run RILLE D-R-C	RPM WOB	B Ho	Weight of S LE CO le Drag	of DC String	ON Down	0kdaN 82kdaN	REDUC								2 LAC	Remar INSPEC	ONED UP	VALK,PIPE RA	ACKS,PIP R TRAVEL	PE RACK PII	NS/CHAINS	S,FLARE A	ND DEGASS	ER LINES,LC	IGGER LINE HOOK NAD LINE, KE,MANUAL CHOK
2372m	2427m	DRILL	15 11kda	111014	on Bottom		65	0.00Mm	1	ressure St	55 @ @ @ @	Depth 2406	Boiler Boiler #	Hours R	lun 12	pH 10	Stack Temp 21	SAF	ETY	BING VALVE	Safety				N	EHL 100.00kdaN	MACP 3109kF
TOU	RЗ	s	IGNATUR	RE OF	DRILLI	ER				16		N STEWAR	1					DERINA	SK CON		T TIM	IE	20:00	E	END TIM		24:00
	Bit Numb Si IADC Co	ze de		No 59 1	Compone BIT MOTOR HS	ent 0	D ID 59 0 27 0	0.20m 8.66m	MUD R	Mud Type (Time	Water Uther 20:00	23:00	41 I			Ту	/ре	20:00 23:15	23:15 23:45	3.25 2 0.50 20A	DRIL A DIRE	CTIONAL S	JILD SECTI URVEYS/C	ION FROM		452M	
Ma	Ty Serial I	pe R613 No ets 7.9	JK95	1 i89 1 7.9 1	NEAR BIT SI NON MAG M GAP SUB NON MAG MONEL NMDC	ONEL 1:	29 0 21 68 25 74 19 68	9.35m 1.71m 9.35m 9.35m		Density I Viscosity Fluid Loss pH of Sample	1240 71s/l SHAKERS	1245 72s/ SHAKERS	-11	CONTR	OI			23:45	24:00	0.25 7	RIG S	SERVICE/FU	JNCTION L	OWER PIF	PE RAMS 4 S	ECONDS TO	CLOSE
Total Hrs	pth Out (lepth In (Drilled (Run Tod	m) m) m)	22 1: 3.	92 1 25 1	X/O 5 HWDP X/O JARS-HYD/N	1: 1: 1: MECH 1:	34 61 40 72 34 75 34 75	0.94m 46.80m 0.96m 5.19m	CIRCUL Pump# Typ	Depth PVT ATION e Liner Size	2427m 53m3 SPM Pres	2442m 55m3 ssure Hours Rui	Equipment		Intake Density	Over Flow Density	Under Flow Density	-									
	Entry Da	un ite 2016/01		67	X/O 44 SINGLES O HWDP Drill Pipe Drill Pipe Kelly [OF 1		0.94m 411.84m 1945.37m 0.00m 0.00m	1SING 2SING Remarks:			5700 4 5700 0	MUD MA	Product			ount Type 1 EAC 1 EAC	н									
MDC LOC BRG	ES D	Reason Total Run	Pulled (m/hr)		Weight of S	Total of DC string	ON	2452.00m 0kdaN 82kdaN			In one	-	LIME GILSONITE CYBER SEAL				5 EAC 5 EAC 3 EAC	H Remar	CT CATV	VALK,PIPE R	ACKS,PIP	PE RACK PI	NS/CHAINS	S,FLARE A	ND DEGASS	ER LINES,LC	
	To 2452m	D-R-C DRILL	RPM WOB	aN Torq	le Drag ue at Bottom on Bottom	Б	_	0.00m	Pump No. P	ressure St		Depth Depth	Boiler Boiler #		lun 4	pH 10	Stack Temp 21	SAF	ETY	PPER & LOWER		ВОР	STOPS,CRO	OWN SAVER		PASON CHO EHL 78.00kdaN	MACP 3009kF
V. 1.3																											

Licens 3		Well Na		FRON		AGE S	UMM <i>i</i>	ARY				OY5252 Surfa	Sheet Serial 29_2016011 ce Location 078-18W6		Pas	on	BC D	Loc Type DLS	Unique 102/09				14 1 2 3 4	DAILY C Daily Walk Ard Detailed Inspe H2S Signs Pos Well Licence & Flare Lines St	und Inspec ction - Wei sted if Requ Stick Diag	tion ekly (Using (iired		DB MR DB MR DB MR DB MR DB MR		CA	DC
Operat 16DRL Signat	ESOURC or's AFE 0014 ure of Op		epresen	tative					PR Coi 75 Sig	ntractor's nature o	f Contracto					Rig No 29	F	Well Type HORIZ Spud Date 1016/01/04 Rig Releas	17:30 e Date Tin	10		Re-E	ntry 6 7	BOP Drills Per Visually Inspect Rig Site Health CAODC Rig Sa Mast Inspection Crown Saver	formed ed BOPs - 1 n & Safety I fety Inspec in before R	Meeting (one	e/crew/month) ist (one/rig/mo	DB MR	F	pasi	on son
COP	P R	lig	2 Drill Actual	3 Reaming	4 Cori	ng Cond I & Ci	Mud rc Tr	$\overline{}$	Rig Service	RC RAY	MOND 9 Cut Off Drilg Line	10 Dev Survey		12 Run Csg & Cement	13 Wait On Cement	14 lipple Up BOP	15	016/01/20 16 Drillste Test	17	g Sq	ueeze ement	19 Fishing	20 Dir Work	Motor Kills Ch 21 Safety Meeting	222 Tear Down	23 Waiting On	24 Rig Watch	25 Other	тота	Kelly Bushing 5.90 FUEL @ Rig 21	0p Fuel 3125.00 08:00 HOURS 625.00 Boiler 0.00
HOURS TOU	r 2		2.00 2.75 4.75				1.50	7.00 11.25	0.25 0.25 0.25 0.75		0.50												1.7 1.0 2.7	0					8.0 12.0 4.0 24.0	O Current Co	06:00 -12.00 nditions SNOW tion Wind Strength CALM
то	UR 1	1	SIG	NATUR	E O	F DRIL	LER.						DUNCAN	N STEWART										STAR	T TIM	IE	00:00	D I	END TII	ΛE	08:00
BITS	Bit Nu	mber 7			D Ne	ORILLIN o Comp	IG AS	SEMI OD II			UD RE		Water	Oil x	Time De					Туре		TIM:	E LOC	Elapsed Co	de		Details o	of Operation	ns in Seque	ice & Remark	s
	IADC Manufac		AITH	15	59	1 BIT 1 MOTOR		159	0 0.20	im		Time Density	01:00									00:00	01:30	1.505	MEE	TING WITH	I CREW PR	IOR TO TR	IPPING CO	2-4	2451M AND SAFETY
		Type R6		JK958	39	1 NEAR BI 1 NON MAG 1 GAP SUE	3 MONEL	1	0 1.37 68 9.35 74 1.71	im	Funnel V		1245 72s/l									01:30 01:45	01:45	0.257 3.256B	TRIP 507N	OUT OF HO	VOL:TCV:1	52M TO 507 0.55m3,TM	M WITH 10M IV:12.00m3,I	IN FLOW CHECO	KS @ 2319M, 1238M,
	D 11- O		7.9 7. 7.9 7.	9		1 NON MAC 1 NMDC	3 MONEL	119 (68 9.35 68 9.32	2m L	ocation of		SHAKERS		SOLIE	s co	ONTRO	DL				05:00		0.2521	AREA	ER A, WELL S	HUT IN WITH	H STABBIN	G VALVE IN	SE, CREW WEN	T TO UP WIND MIN 34 SECONDS,
	Depth Ou Depth I Ital Drille	n (m)		245 226	30	1 X/O 1 5 HWDP 1 X/O		140	61 0.94 72 46.80 75 0.96)m	RCULA	Depth PVT	2452m 55m3		Equipm Nam		Hours Run	Intake Density	Over Flo Densit		der Flow Density	05:15 06:15 07:30	06:15 07:30 07:45	1.00 6B 1.25 21 0.25 21F	SAFE	TY MEET		IRECTION	AL PRIOR T	O HANDLING 21MPA,PRESS	BHA JRE REAMINING
	Hrs Run T lative Hrs	Run		0.0 37.2	00	1 JARS-HY 1 X/O 1 44 SINGLE		134	75 5.19 68 0.94	Pum Im	p# Type 1 SINGLE	Liner Size	0 20	sure Hours Rur	MUD	MATE	DIAL	S ADD	ED						FUNC MPA	TION:11MP N2 BOTTL	ES X4:2100	PSI,		CHARGE:2MIN	35SEC,PRECHARGE:7
CUT	FING 1	Date 20		RE		o Drill Pip	е	Stand Single	_	'm	2SINGLE	127	103 20	0000 1	MOD		Product	3 ADD		mount	Туре	07:45	08:00	0.2521	HANI	O OVER M	EETING WI	TH CREWS	8		
TO MDC	3 BC	i	01 son Pull	DC ER ed BHA		Ke	lly Down Total		0.00 2452.00	m Rem	narks:																				
LOC BRG	H X RES		Run (m/	hr) 5.1			of String	TION	0kda 82kda																					IEAD,ST-80,TI	JGGER LINE HOOK
From	То	D-R-0	_	M WOB	7	Hole Drag rque at Botto	Up _		Down		p No. Pre	ssure Str	IP SPE okes/min	Depth	Boiler							FUNCTION INSPEC	ONED UP		TRAVEL	LIMITS & E					KE,MANUAL CHOKE
			+		- _[Fill on Botto	m			╬		@	@ @		Boiler		Hours Ru	in 8	pH 10		k Temp 210	SAF		YD HOSE OI	Safety	Торіс				MEHL 102.00kdaN	MACP 3009kPa
то	UR 2	2	SIG	NATUR	E O	F DRIL	LER.							SH GILBERT										STAR		ΙΕ	08:00	o I	END TI		20:00
BITS	Bit Nu	mher 8			D N	PRILLIN	IG AS	SEMI			UD RE		Water	Oil V	DEVIA		SUR\			Туре		TIM From	E LOC	Elapsed Co	de		Details o	of Operation	ns in Senue	ice & Remark	
	IADC	Size Code	T	15		1BIT 1MOTOR	Johone	159	0 0.20	m			ther	011 [22]	17:00 245 17:45 246	5.6m 9.4m	78.1 80.2	78.5 80.4 82.1		71		08:00	09:15	1.25 20	DIRE	CTIONAL W	ORK / MAKE				L . FUNCTION BLIND
	Manufac Seria	Type SK	ED 413M	A21081	17	1MONEL 1GAP SUE	3	124	68 9.35 70 1.69 68 18.67	m	Funnel V	Density /iscosity uid Loss	1250 78s/l		18:15 24 19:00 249 19:30 25	\neg	82.6 85.4 87.9	83.1 84.7				09:15 09:30 10:15	10:15	0.25 21 0.75 6A 0.50 9A	TRIP	IN HOLE		60M. FILL	PIPE AND F	LOWCHECK	@ 560M. SAVER/ JG . UPPER
	Jen	Jets 1	2.7 12. 8.7 8.	7 8.7 8		2MONEL 1X/O 1HWDP		134 (68 18.67 61 0.94 61 9.36	m .	ocation of	рН	SHAKERS		SOLIE	s co	ONTRO	DL					17:00	6.25 6A	LOW	ER STOPS	S/LIMITS CH	ECKED.			PIPE EVERY 600
	Depth Ou Depth I	n (m)		245	52	1X/O 1SLIDE RI	EAMER	150	61 0.96 63 1.41	m	RCULA	Depth PVT			Equipn Nam		Hours Run	Intake Density	Over Flo Densit		der Flow Density	17:00	17:15	0.257	RIG S	SERVICE/	FUNCTION	UPPER PII	PE RAMS/ 4	SECONDS T	
1	ital Drillei Hrs Run T lative Hrs	oday		2.0	00	1X/O 15 4.5 " DE 1X/O		133	68 0.94 74 48.75 74 0.96	m Pum				sure Hours Rur								17:15 19:15 19:45	19:15 19:45 20:00	2.00 2 0.50 20A 0.25 21	DIRE	CTIONAL	SURVEYS/C ING/CREW	CONNECTI	ONS/ TOOL	FACE ORIEN	FATION
CUT	Entry TING	Date 20	CTU	RE		1 JARS/ HY MECH 13 Drill Pip O Drill Pip	е	Stand		m	2 COMBIN-	114	80 23	3000 4	MUD OPTI-GLII		Product	S ADD		mount 2	Type EACH										
TO MDC		Reas	Ga Ol son Pull	DC			lly Down Total	Single	0.00 0.00 2521.00	m Rem	narks:				BARITE					84	EACH										
LOC BRG	RES		Run (m/	hr)		Weight	of String	TION.	0kda 78kda																						JGGER LINE HOOK
From 2452	To	D-R-0	C RP	M W0B 30 12kda		Hole Drag	Up _		00wn 10	_	DUCE p No. Pre		IP SPE	∃D Depth	Boiler							FUNCTIO	ONED UP		TRAVEL	LIMITS & E				D PASON CHO	IKE,MANUAL CHOKE
					_LF	Fill on Botto	m		0.0	0m	1 5200	@ @	65 @ @ @	2462	Boiler		Hours Ru	in 12	pH 10		k Temp 210	SAFI			Safety	Topic				MEHL 100.00kdaN	MACP 3009kPa
то	UR 3	3	SIG	NATUR	E O	F DRIL	LER					6		N STEWAR								III III	IO IIV	STAR	T TIM	ΙΕ	20:00	0	END TI		24:00
BITS						RILLIN		SEMI		_	UD RE		Water		DEVIA					Туре		TIM:	E LOC				Datails o	-		ice & Remark	
	IADC	Size Code	Ī	15	\neg \vdash	1BIT 1MOTOR	onone	159 128	0 0.2	0m 6m		0 Time	ther	23:00	20:15 252 20:30 253	5.56m 9.5m	90.3 90.8	83.6 83.9		-,,,-		20:00	22:45	2.75 2 1.00 20A	DRIL		521M TO 26 SURVEYS/C	37M		ice & Heman	0
	Manufac Seria	Type sk		A21081	-	1MONEL 1GAP SUE 2MONEL	3	124	68 9.3 70 1.6 68 18.6	9m	Funnel V	Density /iscosity uid Loss	1280 76s/l	1300 75s/		7.5m	91.3 90.6 90.4	83.6 84.3 85				23:45	24:00	0.257	RIG S	SERVICE/I	FUNCTION L	OWER PI	PE RAMS 4	SECONDS TO	CLOSE
	3611	Jets 1	2.7 12. 8.7 8.	7 8.7 8	\dashv \vdash	1X/O 1HWDP		134	61 0.9 61 9.3	4m	ocation of	pН	SHAKERS	SHAKERS	22:30 25 23:00 260 SOLIF	9.8m	90.5 89.6	85.2 89.5													
	Depth Ou Depth I	n (m)		245	⊣⊢	1X/O 1SLIDE RI	EAMER		61 0.9 63 1.4	1m	20111	Depth PVT	2523m 56m3	2610m 57m3	Equipn Nam	nent ie	Hours Run	Intake Density	Over Flo Densit		der Flow Density										
1	ital Drillei Hrs Run T lative Hrs	oday		18 2.7 4.7	75	1X/O 15 4.5 " DF 1X/O	P	133	68 0.9 74 48.7 74 0.9	5m Pum	p# Type 1 SINGLE	Liner Size	_	Sure Hours Rur																	
	Entry TING	Date 201	CTU	RE		1JARS/HY 1 Drill Pip	е	133 G Stand	62 5.11 Is 12.2	9m Om	2SINGLE	_	_	9500 3.5	MUD BARITE		Product	S ADD		mount 144											
TI TO MDC		Reas	Ga Ol son Pull	DC	1	d Drill Pip Ke	e Ily Down Total	Single	0.00 2637.00	Om Ren	narks:				LIME					5	EACH				+						
LOC BRG		Total F	Run (m/			Weight	ght of DC of String		0kd 74kd	aN															_						JGGER LINE HOOK
From 2521	To 2637r	D-R-0	C RP	M W0B		Hole Drag	Up _		00wn 9			D PUN	IP SPE	∃D Depth								FUNCTIO	ONED UP		TRAVEL	LIMITS & E				D PASON CHO	DAD LINE,
	20071	Sixil	\perp	- roud	711	Fill on Botto			0.0		2 3866	@ @	50 @	2550	Boiler Boiler		Hours Ru	in 4	pH 10	Stac	k Temp 210	SAF	ETY		Safety					MEHL	MACP
V. 1.3					┙					L		@	@									MIXING	CHEMIC	ALS						87.00kdaN	2711kPa

License No	o W	/ell Name	FRON	T PAG	GE SUN	MAR	Y			0Y525	Sheet Seria 29_2016011 ace Location	15_1A	Pason 2016 0 Prov Loc Type Unique Well Id					Month D	15	DAILY C 1) Daily Walk An 2) Detailed Inspection 3) H2S Signs Po	ound Inspe- ection - We	ction eekly (Using C	heck List)	DB MR CAUDC				
31525 ARCRES HZ SUNRISE J2-25-78-18 Operator ARC RESOURCES Operator's AFE 16DRL0014 Signature of Operator Representative									actor ISION DRILLII actor's Job No ture of Contra	NG, DIV OF I			IBC DLS 102/09-19-078-17W6/00						Entry 8	I) Well Licence is Flare Lines St is BOP Drills Per it Visually Inspec I) Rig Site Healt I) Rig Site Healt I) CAODC Rig Si I) Mast Inspecti	aked rformed ted BOPs - h & Safety afety Insper on before F	Flare Lines & Meeting (one ction Checklis	Degasser Lines /crew/month) st (one/rig/mo	DB MR DB MR DB MR	P	asc		
Dean Boeh	nert	2	3	4	5	6	7		RAYMOND B 9	10	11	12	13 1		016/01/20 1 16	7:00 17	18	19	20) Crown Saver 5) Motor Kills Ch 21		23	24	25		Pas Kelly Bushing 5.90	Op Fuel 3250.00	
Tour 1	Rig Up	Drill Actual 4.7	75	Coring	Cond Mud & Circ	Trips	_).25).25		ff Dev ne Survey		Run Csg & Cement		e Up Test P BOP	Drillsten Test	Plug Back	Squeeze Cement	Fishing	Dir Work 2.7	75 0.25	Tear Down	Waiting On	Rig Watch	Other	8.00 12.00	Time Current Cond	75.00 Beiler 0.00 Temp 06:00 -14.00 15:00	
Tour 3 Total		2.5					_).25).75											1.2 8.0						4.00 24.00	Wind Direction N Road Condition FAIR	in Wind Strength CALM	
TOU	R 1	SI	GNATUR	_							DUNCA	N STEWAR						1			T TIN	/IE	00:00	E	ND TIM	E	08:00	
BITS B	Bit Numbe Siz		15	No	Compone		ID I		MUD R	Mud Type	Water	0il x	Time Depth 00:002639.05m			Ту	ре	From	To 04:45	Elapsed Co			Details o		ıs in Sequenc	e & Remarks		
	IADC Cod	le		1 N	MOTOR MONEL	12	8 0	9.16m 9.35m		Time Density	02:00	05:00	00:302653.5m	90.7 91.2	88.6 89.1			00:00 04:45 07:30	-	2.7520/ 0.257	DIRE	ECTIONAL S	SURVEYS/C	ONNECTION	ONS 23 SECONDS	TO CLOSE		
	Serial N		A21081	7 2 N	SAP SUB	12	9 68	1.69m 18.67m		el Viscosity Fluid Loss	75s/l	73s/	02:152697.55m 03:00 2712m	89.1 89 89.9	91 92.1 93.7			07:45	08:00	0.2521	SAFI	ETY MEETI	NG/CREW	CHANGE				
Dep	Jei oth Out (n	8.7	2.7 8.7 8 8.7	11	WDP	13 13	4 61	0.94m 9.36m 0.96m	Location	of Sample Depth	SHAKERS 2686m	SHAKERS 2770n	03:30 2726.8m SOLIDS Equipment	90.2 CONTRO		Over Flow	Under Flow											
Total	epth In (n Drilled (n	n)	245 38	1 X	LIDE REAM	13	4 68	1.41m 0.94m	CIRCUL		56m3	54m3	Name XENTRIFUGE	Run 2	Density 1350	Density 1300	Density											
Cumulativ		'	9.5	60 1 X	4.5 " DP (/O ARS/ HYD M	13 13	3 74	48.75m 0.96m 5.19m	Pump# Typ 1 SING 2 SING	SLE 114	0 2	1000 (1000 8	MUD MA	TERIAL	S ADD	ED.												
		RUCT		8	Drill Pipe Drill Pipe	St		234.05m 0.00m	ZSING	114	130 2	1000 8	BARITE OPTI-GLIDE	Product			ount Type 252 EACI 2 EACI											
TO	٥,	Reason P				Total		-17.85m 841.00m	Remarks:				OPTI-WET				1 EACI											
BRG		otal Run (r	-		Weight of St	tring		0kdaN 74kdaN																		AD,ST-80,TU	GGER LINE HOOK	
From			RPM W0B 30 8kda	Hole		Jp 7	Down	9 00.00Nm	Pump No. F		rokes/min	Depth	Boiler					FUNCTI	ONED UF		R TRAVEL	LIMITS & E-					E,MANUAL CHOKE	
				Fill o	on Bottom			0.00m	-		50 @ 50 @	2638 2769	Boiler #	Hours Ru	in	0H \$	Stack Temp 21		ETY		Safety	Торіс				EHL 100.00kdaN	MACP 3109kPa	
TOU	R 2	SIC	GNATUR	E OF	DRILLE	ER						SH GILBER][10 111	STAR	T TIM	/IE	08:00	E	ND TIM		20:00	
BITS	Bit Numbe	2 B		DR No	ILLING Compone		MBL		MUD R				DEVIATION Time Depth			Ту	ne .	TIM From	E LO	Elapsed Co	odo		Dataila a	f Operation	o in Coguene	e & Remarks		
	Siz IADC Cod	re	15	i9 18		15	9 0	0.20m 9.16m			Other	12:0	08:00 2843.9m 08:30 2858.5m	89.2 89.3	110.3 112.5	-,,	po	08:00		7.50 2 4.00 20/	DRIL		841M- 3168N SURVEYS /	И		e or nemarks		
Ma	nufacture Typ	e SK413M		10	MONEL SAP SUB	12	4 70	9.35m 1.69m		Density el Viscosity	1360 75s/l	137 75s	09:15 2873.05m 09:45 2887.5m 10:15 2902.3m	90.6 90.9 89.4	115.5 117.5 120.2			19:30 19:45	19:45	0.25 7 0.25 21	RIG:	SERVICE/ I		UPPER PIF		CONDS TO	CLOSE	
	Serial N Je	ts 12.7 1	A21081 2.7 8.7 8 8.7	.7 1×	MONEL MONEL WDP	11 13	4 61	0.94m 9.36m		Fluid Loss pH of Sample	SHAKERS	SHAKERS	11:00 2917m 11:30 2931.55m SOLIDS	87.1 86	121.6 122.8													
	oth Out (n epth In (n	n)	245	1X 52 1S	//O SLIDE REAM	13	4 61	0.96m 1.41m		Depth PVT			Equipment Name	Hours Run	Intake Density	Over Flow Density	Density											
	Drilled (n Run Toda	ıy	71 7.5 17.0	0 15	4.5 " DP	13	3 74	0.94m 48.75m	Pump# Typ	e Liner Size		_	CENTRIFUGE	1.75	1340	1330	168											
	Entry Dat	2016/01/	14	10	ARS/ HYD MECH Drill Pipe	13	3 74 3 62 tands 5	0.96m 5.19m 543.20m	1SING 2SING			9500 11 9500 1	MUD MA	TERIAL Product	S ADDE	Amo	ount Type											
TI	\exists		Gage ODC	_ d	Drill Pipe Kelly D	own	ngles	0.00m 0.00m	Remarks:				BARITE OPTI-WET LIME				270 EACI 1 EACI 5 EACI											
LOC BRG	1	Reason Protal Run (n			Weight of S			0kdaN 78kdaN					OPTI-GLIDE OPTI-MUL OPTI-PLUS				1 EACI 1 EACI	н	ks: INSI	PECT FLOOR	EQUIPME	ENT.TONG.E	BACK UP SL	INGS.DEAD	MAN.CAT HE	AD.ST-80.TU	GGER LINE HOOK	
METR From	To	D-R-C F	RPM WOB	Hole	LE CON		ON		REDUC									FUNCTI	ONED UP	VALK,PIPE R PPER & LOWE	ACKS,PIF R TRAVEL	PE RACK P	INS/CHAINS	S,FLARE AI	ND DEGASSI	R LINES,LO		
2841m	3168m	DRILL	30 10kda	- I lorque	at Bottom on Bottom		620	00.00Nm 0.00m		ressure St 000 @	76 @	Depth 309	Boiler Boiler #	Hours Ru	ın ı	0H \$	Stack Temp		ETY	BING VALVE	/INSIDE I				l M	EHL	MACP	
										@	@				12	10	21	USE OF	TUGGE							89.00kdaN	2512kPa	
TOUI	R 3	SIC	GNATUR		DRILLE ILLING		MBL	Y	MUD R	ECORD		N STEWAR	DEVIATION	ON SUR	VEYS			TIM	E LO	STAR G	T TIN	ME	20:00		ND TIM	E	24:00	
	Bit Numbe Siz	re	15	-		15	+ +	Length 0.20m			Water Other	Oil 🗴	Time Depth 20:15 3180m	89.7	124.8	Ту	ре	From 20:00	22:30	Elapsed Co	DRIL		68M TO 32	68M		e & Remarks		
	IADC Cod inufacture			1N	MOTOR MONEL SAP SUB	12 12 12	1 68	9.16m 9.35m 1.69m	Funne	Time Density el Viscosity	20:00 1400 75s/l	23:00 1375 75s/	21:15 3209.5m	90.5 90.7 90.4	124.9 124.9 125.7			22:30		1.25 20/ 0.25 7	\rightarrow		SURVEYS/C			CONDS TO	CLOSE	
	Serial N	lo	A21081	7 2N	MONEL MO	11	9 68	18.67m 0.94m		Fluid Loss pH	7331	753	22:30 3238.5m 23:00 3253.3m	90.5	126.9 125.5			\vdash										
	oth Out (n	n)	8.7	1X	WDP //O	13	4 61	9.36m 0.96m	Location	Depth	3166m	SHAKERS 3253n	SOLIDS Equipment	Hours	Intake	Over Flow Density	Under Flow Density											
Total	epth In (n Drilled (n Run Toda	n)	245 81 2.5	6 1X	//O 4.5 " DP	15 13 13	4 68	1.41m 0.94m 48.75m	CIRCUL Pump# Typ		57m3 SPM Pres	52m3	Name CENTRIFUGE	Run 1.5	Density 1400	1340	,	0										
	Entry Dat	te 2016/01/		50 1X 1J	//O ARS/ HYD N	13 MECH 13	3 74 3 62	0.96m 5.19m	1 COME 2 COME	IIN- 114	76 29	9000 4	MUD MA		S ADDE		unt Tuno											
TI TO	NG ST		URE Gage ODC		Drill Pipe Drill Pipe Kelly D	Si	ngles	0.00m	Damarka				BARITE OPTI-GLIDE	Product		Amo	nunt Type 126 EACI 1 EACI											
MDC LOC	\exists	Reason Protal Run (r	ulled			Total	3	0.00m 268.00m 0kdaN	Remarks:																			
_		RILLED	_	НО	Weight of S	IDITIO		78kdaN	DEDUG	ED DU	AD CDE	ED.						INSPEC	CT CATV	VALK,PIPE R	ACKS,PIF	PE RACK P	INS/CHAINS	S,FLARE AI	ND DEGASSI	R LINES,LO		
	To 3268m	D-R-C F	45 11kda	N Torque	e at Bottom	Jp 12		16 00.00Nm 0.00m		ressure St		Depth 4015	Boiler Boiler #	Harris C	un		Stack Temp		CT STAB	PER & LOWE BING VALVE			SIUPS,CRC	WN SAVER	,IGNITER AND	PASON CHOR	E,MANUAL CHOKE	
					Soudin			J.JUM	1 84		50 @	4155		Hours Ru	4	0H 10	Stack Temp 21	0		NECTIONS	Safety	Topic			M	EHL 86.00kdaN	MACP 2313kPa	
V. 1.3																												

License No	Wel	Name	FRON	T PAC	RE SUN	MARY	,		0Y525	Sheet Seria 29_2016011 ce Location	6_1A	Vendor S Pason	Software Ve	ersion Loc Type	Unique V	Year 2016	Month 01	Day 16	1) Da 2) De	DAILY CHECKS 1) Daily Walk Around Inspection 2) Detailed Inspection - Weekly (Using Check List) 3) H2S Signs Posted if Required 4) Well Licence & Stick Diagram Posted			eck List)	DB MR CAUDO			
31525 Operator	ARCI		UNRISE J2-2	25-78-18				tractor	12-25-	078-18W6	BC DLS 1				19-078-17\		le-Entry	4) We 5) Fla 6) B0	ell Licence & S are Lines Stak DP Drills Perfo	itick Diagra ed med	m Posted		DB MR DB MR	_ \			
ARC RESOL Operator's A 6DRL0014								cision drii tractor's Job	LING, DIV OF F No	PDCLP		529 HORIZ Spud Date Time 2016/01/04 17:30						Ш	1) Ri	sually Inspected g Site Health & AODC Rig Safe	Safety Me	eting (one/c	crew/month)		F	ase	on)
Signature o Dean Boehn		Represer	ntative					ature of Con	tractor's Rig Ma D	nager					e Date Tim	е			3) Ma 4) Cr	ast Inspection own Saver Ch otor Kills Chec	before Rais ecked			MR.		Pa	son
CODE	1 Ria	2 Drill	3	4	5 Cond Mud	6	7 Rig F		9 10 t Off Dev	11 Wireline	12 Run Csg	13 14 Wait On Nipple					070		20 Dir	21 Safety	22 Tear	23 Waiting	24 Rig	25		Kelly Bushing 5.90 FUEL @	0p Fuel 3875.00 08:00 HOURS
2 Tour 1	Up	Actual 4.50	Reaming	Coring	& Circ	Trips	Service 0.25		Line Survey		& Cement	Cement BOP	BOP	Test					ork 3.00		Down	On	Watch	Other	TOTAL 8.0	Time	500.00 Boiler 0.00 Temp 06:00 -10.00
Tour 2 Tour 3		8.50 2.75	5				0.25 0.25												1.00	0.25					12.0 4.0	Wind Direct	ion Wind Strength CALM
TOUF		15.75	NATUR	E OE	DRILLE	- D	0.75			DUNCAN	N STEWAR								7.00	0.50	TIME				24.0		
BITS	1	310	INAIUR	,	LLING		MBLY	MUD	RECORD	DUNCAR	NSIEWAR	DEVIATIO	N SUR	RVEYS			TI	ME L	.og	SIARI	IIIVI	•	00:00) <u> </u>	אוו שא	15	08:00
	t Number Size	3	15	\neg	Compone IT	ent OD 159	ID Length 0 0.20		Mud Type O	Water ther	Oil x	Time Depth 00:00 3268m	Deviation 89.8	Direction 124.1		Туре	Fro	\neg	$\overline{}$	psed Code	_	159mm LA		f Operations		ce & Remarks	3
	DC Code ufacturer	REED		\neg	OTOR ONEL	128 121	0 9.16i 68 9.35i	⊣ı	Time Density	02:00 1390	05:00 1380	00:453282.55m 01:00 3297m 01:453311.8m	89.5 89.6 89.9	123 124 123.9				:30 07 :30 07	$\overline{}$	3.0020A 0.257	_			CONNECTIC		S TO CLOSE	
	Type Serial No	SK413M	A21081	7 2 M	AP SUB ONEL	124 119	68 18.67	"	Fluid Loss	75s/l	74s/	02:003326.5m 02:453341.05m	90.8 91.1	122.2			07	:45 08	:00	0.2521	SAFET	Y MEETIN	IG/CREW	CHANGE			
Donat	Jets	12.7 12 8.7 8	$\overline{}$	1H	WDP	134 134	61 9.36	n Locati	-	SHAKERS	SHAKERS	03:15 3355.5m	89.9 ONTR					\pm									
Dep	h Out (m) oth In (m) rilled (m)		245	\neg \vdash \vdash	LIDE REAM	134 IER 150	63 1.41	n	Depth PVT JLATION	3325m 58m3	3397m 53.5m3	Equipment Name CENTRIFUGE	Hours Run	Intake Density	Over Flo Density	n Den											
	un Today		5.0	0 15	4.5 " DP	133		n Pump#	Type Liner Size	SPM Pres	sure Hours Rui	DEITHIN OCC		140	,												
	ntry Date		4	1 J/	ARS/ HYD N Drill Pipe	MECH 133		n 200	MBINED 114		0000 8	MUD MAT	Product				Туре	Ŧ									
TI TO			age	1 0	Orill Pipe Kelly D	Sing	gles 0.00i					OPTI-WET OPTI-MUL OPTI-PLUS				1	EACH EACH	+									
MDC LOC	_	eason Pul Il Run (m.		}	Weight o	Total	3502.30i 0kda					BARITE					EACH										
BRG METRE					Weight of S	NDITIO									+	+	INS	PECT C	ATWAL	K,PIPE RAC	KS,PIPE	RACK PIN	S/CHAINS	S,FLARE AN	D DEGASS	ER LINES,LO	
		R-C RF	PM W0B 45 11kda	\neg	Drag L at Bottom	Jp 12	7800.00Ni	n Pump No.	Pressure Str	okes/min	Depth	Boiler					INSI	PECT S	TABBIN	R & LOWER 1			STOPS,CRC	OWN SAVER,	IGNITER AN	D PASON CHO	KE,MANUAL CHOKE
		+		Fill o	n Bottom		0.00	n 2	3930 @ @ @	50 @ @ @	3383	Boiler #	Hours R	un 8	pH 10	Stack Te	210	RICK C			Safety To	pic			1	MEHL 91.00kdaN	MACP 2313kPa
TOUE	2.0	SIC	NATUR	L E OE	DDILLE	-D											DEN	KICK C	ONNEC		TIBAL		00.00	(₌	ND TIN	_	
TOUF BITS	12	510	INAIUR		LLING		MBLY	MUD	RECORD	JOS	SH GILBER	DEVIATIO	N SUF	RVEYS			TI	ME L	.og	START	IIIVIE	1	08:00	<u> </u>	ND IIN	15	20:00
Bit	t Number Size	В	15	No 18	Compone IT	ent OD 159	ID Length 0 0.20r	⊣ 1	Mud Type O	Water ther	Oil ×	Time Depth 08:30 3487.3m	Deviation 90	122.2		Туре	Fro 08	$\overline{}$	$\overline{}$	psed Code 8.50 2		159mm LA		f Operations CTION FRO		ce & Remarks 3743M	3
	NDC Code ufacturer	REED			OTOR ONEL	128 121	0 9.16r 68 9.35r		Time Density	08:00 1390	12:00 1380	09:15 3502m 09:30 3516.55m	90.5 90.4	121.3 121.1 121.9			16	:30 19 :30 19		3.00 20A 0.25 7				ONNECTIO		ECONDS TO	CLOSE
	Type Serial No	SK413M	A21081	7 2M	AP SUB ONEL	124 119		41	Fluid Loss	69s/I	69s	10:30 3532m 11:00 3545.8m 11:15 3560.2m	89 89.2	121.9			19	:45 20	:00	0.2521	SAFET	Y MEETIN	IG/CREW (CHANGE			
Dont	Jets	12.7 12 8.7 8		1H	WDP	134	61 9.36r	Locati	-	SHAKERS	SHAKERS	12:00 3575.05m	1	1				+									
Dep	h Out (m) oth In (m) rilled (m)		245	10	LIDE REAM		63 1.41r	<u> </u>	Depth PVT JLATION			Equipment Name	Hours Run	Intake Density	Over Flo Density	/ Den											
	un Today		8.5	50 15	4.5 " DP	134 133		Pump#	Type Liner Size		sure Hours Rui	CENTRIFUGE	1.75			_	1680	+									
E UTTIN	ntry Date IG STF			1M	ARS/ HYD ECH Drill Pipe		62 5.19r	1 200	MBIN- 114		2500 11	MUD MAT	Product			mount 1		+									
TI TO			age IDC	10	Orill Pipe Kelly D	Sing Down	gles 0.00r		:			BARITE OPTI-WET BENTONE 920				3	EACH EACH										
MDC LOC	_	eason Pul Il Run (m.		1	Weight o		3743.00n 0kdař	4				OPTI-MUL OPTI-PLUS				1	EACH					,					
BRG			and Lucon	НОІ	Weight of S	OITID			OED DU								INS	PECT C	ATWAL	K,PIPE RAC	KS,PIPE	RACK PIN	NS/CHAINS	S,FLARE AN	D DEGASS	ER LINES,LO	GGER LINE HOOK AD LINE, KE,MANUAL CHOKE
	_	R-C RF	PM W0B 45 12kda	N Torque	at Bottom	Jp 10	7500.00N	Pump No.	Pressure Str		Depth 3705	Boiler					INS		TABBIN	IG VALVE/IN			STOPS,CRC	WIN SAVER,	IGNITER AN	D PASON CHO	KE,MANUAL CHOKE
				FIII O	n Bottom		0.00		@	@		Boiler #	Hours R	12 12	pH 10	Stack Te	210	ING/SE			Safety Top	pic			1	MEHL 92.00kdaN	MACP 2313kPa
TOUF	3	SIG	NATUR	E OF	DR <u>ILL</u> E	ER_				DUNCAL	N STEWAR									START	TIME	:	20:00	E	ND TIN	IE	24:00
BITS				DRI	LLING	ASSE		_	RECORD			DEVIATIO				Torris		ME L								-	
	Size	В	15	1	Compone	159	ID Length 0 0.20	<u> </u>		ther	Oil x	Time Depth 20:15 3750.55m 21:00 3765m	Deviation 87.5 88.5	122.1 123.4		Туре		:00 22	:45	2.75 2	DRILL 1		TERAL SE	CTION FRO	OM 3743M	ce & Remarks O 3823	3
	ADC Code ufacturer Type	REED SK413M		1M	OTOR ONEL AP SUB	128 121 124	68 9.35	<u> </u>	Time Density Density	20:00 1380 68s/l		21:45 3779.8m 22:15 3794.5m	89.1 89.8	123.2				:45 23 :45 24	\neg	1.00 20A 0.25 7				ONNECTIO		ECONDS TO	CLOSE
	Serial No Jets	12.7 12	A21081	7 2M	ONEL O	119	68 18.67		Fluid Loss pH	005/1		23:15 3809.05m	90.8	123.4			= =	+									
Dept	h Out (m)	8.7 8		1H	WDP O	134		m Locati	on of Sample :	SHAKERS 3750m		SOLIDS C	ONTR	OL Intake	Over Flo	w Under	r Flow	+									
	oth In (m) rilled (m)		245 137	i2 1S	LIDE REAM		63 1.41	m	PVT JLATION	49m3		Name CENTRIFUGE	Run	Density 138	Density	Den		+									
Cumulative			2.7 35.7	'5 1X	4.5 " DP /O	133 133	74 0.96	m 1 CC	MBIN- 114	SPM Pres 76 26	Sure Hours Rui		EDIAL	0.405	-			\pm									
UTTIN	ntry Date	UCTL	IRE	42 [ARS/ HYD N Drill Pipe	Sta	nds 1198.20	m 2E0	DMBIN- 114	76 26	5700 4	MUD MAT	Product				Type EACH	\pm									
TO			IDC	qI	Orill Pipe Kelly D	Sing Down Total	0.00	m Remarks	<u> </u>			LIME					EACH	+									
LOC BRG		d Run (m.			Weight of S	of DC	3823.00 0kda 72kda	N									Rer	narks.	INSPEC	T FLOOR FO	QUIPMENT	T,TONG.BA	ACK UP SI	INGS,DEAD	MAN,CAT H	EAD,ST-80.TU	GGER LINE HOOK
METRE			PM WOB	НО	LE CON	NDITIO			ICED PUN	IP SPE	ED				\mp	\mp	INSI	PECT C	ATWAL	K,PIPE RAC	KS,PIPE	RACK PIN	NS/CHAINS	S,FLARE AN	ID DEGASS	ER LINES,LO	
		RILL	45 12kda	N Torque	at Bottom n Bottom		8700.00N 0.00	Pump No.	7750 @	50 @	Depth 3756	Boiler Boiler #	Hours R	un	pH	Stack Te	INS		TABBIN	IG VALVE/IN	ISIDE BO	P					
									@	@		396		4	10		210	OF CAT	TWALK		Safety Top	pic			1	93.00kdaN	MACP 2313kPa
<i>l</i> . 1.3																											1 of 7

FRONT PAGE SUMMARY License No Well Name 31525 ARCRES HZ SUNRISE J2-25-78-18	Tour Sheet Serial Number 0Y52529_20160117_1A Surface Location 12-25-078-18W6	Vendor Software Version Pason Prov Loc Type BC DLS	Year Month 2016 01 Unique Well Id 102/09-19-078-17W6/00	Day 17 DAILY CHECKS OP RIM DB MR 20 DB						
Operator RCR CRESOURCES Operator's AFE 6DRL0014	Contractor PRECISION DRILLING, DIV OF PDCLP Contractor's Job No 75	Rig No Well Type 529 HORIZ Spud Date T 2016/01/04 1	Time Re	Si Paire Lines Staked Si P						
Signature of Operator Representative Dean Boehnert	Signature of Contractor's Rig Manager MARC RAYMOND	Rig Release 2016/01/20 1	7:00	3) Mast Inspection before Raising or Lowering 4) Crown Saver Checked 5) Motor Kills Checked (5) Motor Kills Checked (1) The Company of the Co						
Rig Drill Reaming Coring Cond Mud Trips Sergion Q Trips Coring Coring	25	13 14 15 16 Wait On Cement Nipple Up BOP Test BOP Drillsten Test	17 18 19 n Plug Squeeze Eack Cement Fishing	Dir Safety Tear Waiting Rig Other TOTAL Safety Down On Watch Other TOTAL Safety Other						
Tour 2 8.75 0. Tour 3 2.75 0. Total 16.50 0.	25			2.75 0.25 12.00						
TOUR 1 SIGNATURE OF DRILLER	DUNCAN STEWART			START TIME 00:00 END TIME 08:00						
BITS DRILLING ASSEMBLY Bit Number 8 No Component 0D ID L		DEVIATION SURVEYS Time Depth Deviation Direction	Type From	MELOG						
	0.20m Other	00:003823.5m 90.8 123.1 00:303838.3m 91.4 123.5	00:0							
Manufacturer REED 1 MONEL 121 68 Type SK413M 1 GAP SUB 124 70	9.35m Density 1380 1380 1.69m Funnel Viscosity 66s/l 64s/l	01:15 3853m 91.4 122.8 02:003867.55m 90.7 123.3 02:30 3882m 90.7 122.8	07:	07:45 0.257 RIG SERVICE/FUNCTION ANNULAR 23 SECONDS TO CLOSE 07:45 08:00 0.2521 SAFETY MEETING/CREW CHANGE						
	18.67m	03:15 3896.8m 89.6 123.3 03:45 3911.5m 90.1 121.7 SOLIDS CONTROL								
Depth Out (m) 1 X/O 134 61 Depth In (m) 2452 1 SLIDE REAMER 150 63	0.96m Depth 3867m 3928m 1.41m PVT 33.5m3 34m3	Equipment Hours Intake Name Run Density	Over Flow Under Flow Density Density							
	0.94m CIRCULATION 18.75m Pump# Type Liner Size SPM Pressure Hours Run	CENTRIFUGE 2 1400	1350 1630							
Cumulative Hrs Run 40.75 1 X/O 133 74 Entry Date 2016/01/14 1 JARS/ HYD MECH 133 62 CUTTING STRUCTURE 47 Drill Pipe Stands 13	0.96m 1 combined 114 76 24000 8 5.19m 2 combined 114 76 24000 8 74.75m 8	MUD MATERIALS ADDE	Amount Type							
TI Gage O Drill Pipe Singles	0.00m	BARITE OPTI-GLIDE OPTI-MUL	168 EACH 1 EACH 1 EACH							
LOC Total Run (m/hr) Weight of DC	34.05m OkdaN	OPTI-PLUS OPTI-WET BENTONE 920	1 EACH 1 EACH							
Weight of String	REDUCED PUMP SPEED	DENTONE OED	INSPI	marks: Inspect floor Equipment, Tong, Back up Sungs, Dead Man, Cat Head, St-80, Tugger Line Hoo Spect Catwalk, Pipe Racks, Pipe Rack Pins, Ichains, Flare and Degasser Lines, Load Line, NCTIONED Upper & Lower Travel Limits & E-stops, Crown Saver, Igniter and Pason Choke Manual, Cho						
	0.00Nm Pump No. Pressure Strokes/min Depth 3400 @ 50 @ 3939	Boiler Boiler # Hours Run		SPECT STABBING VALVE/INSIDE BOP AFETY						
		396 8	10 210 DERR	SafetyTopic MEHL MACP RRICK CONNECTIONS 91.00kdan 2265k						
TOUR 2 SIGNATURE OF DRILLER	JOSH GILBERT			START TIME 08:00 END TIME 20:00						
DRILLING ASSEMBLY No Component OD ID L		DEVIATION SURVEYS Time Depth Deviation Direction	Type From							
IADC Code 1MOTOR 128 0	0.20m Other 9.16m Time 09:00 12:00 9.35m Density 1380 1380	08:45 3999m 89.8 122.8 09:15 4013.8m 88.2 123	16:4	8:00 16:45 8.75 DRILL 159mm LATTERAL SECTION FROM 3994M- 4232M 6:45 19:30 2.75 poa DIRECTIONAL SURVEYSICONNECTIONS 9:30 19:45 0.25 RIG SERVICE/FUNCTION UPPER PIPE RAMS 4 SECONDS TO CLOSE						
Type SK413M 1GAP SUB 124 70 Serial No A210817 2MONEL 119 68	1.69m Funnel Viscosity 65s/l 65s/l 8.67m Fluid Loss	09:45 4028.5m		9:45 20:00 0.25 21 SAFETY MEETING/CREW CHANGE						
8.7 8.7 1HWDP 134 61	0.94m	11:45 4072.3m 90 121.8 SOLIDS CONTROL								
Depth In (m) 2452 1SLIDE REAMER 150 63	1.41m PVT 0.94m CIRCULATION	Equipment Hours Intake Name Run Density CENTRIFUGE 1.75 1390	Over Flow Under Flow Density Density 1360 1610							
Cumulative Hrs Run 49.50 1X/O 133 74	8.75m Pump# Type Liner Size SPM Pressure Hours Run 0.96m 1 COMBIN- 114 78 23500 11	MUD MATERIALS ADDR	FD.							
CUTTING STRUCTURE 56 Drill Pipe Stands 16	5.19m 2 ^{COMBIN-} 114 78 23500 11 07.20m 0.00m	Product BARITE	Amount Type 84 EACH							
TO ODC Kelly Down MDC Reason Pulled Total 423	0.00m Remarks:									
	0kdaN r2kdaN			INSPECT FLOOR EQUIPMENT, TONG BACK UP SLINGS, DEAD MAN, CAT HEAD, ST-80, TUGGER LINE HOO						
From To D-R-C RPM WOB Hole Drag Up 14 Down	REDUCED PUMP SPEED	Boiler	FUNC	SPECT CATWALK,PIPE RACKS,PIPE RACK PINS/CHAINS,FLARE AND DEGASSER LINES,LOAD LINE, NCTIONED UPPER LOWER TRAVEL LIMITS & E-STOPS,CROWN SAVER,IGNITER AND PASON CHOKE,MANUAL CHO SPECT STABBING VALVE/INSIDE BOP						
Fill on Bottom	0.00m @ @		10 Stack remp	AFETY Safety Topic MEHL MACP						
TOUR 3 SIGNATURE OF DRILLER	DUNCAN STEWAR		l hekk	100.00kdaN 3109k						
BITS DRILLING ASSEMBLY Bit Number 8 No Component OD ID L	MUD RECORD	DEVIATION SURVEYS Time Depth Deviation Direction	TIIN Type From	IME LOG						
Size	0.20m	20:00 4233m 90.4 124.1 20:30 4247.8m 91.5 122.8	20:0	Onl 1 U Clapsed Code Code <t< td=""></t<>						
Manufacturer REED 1MONEL 121 68 Type SK413M 1GAP SUB 124 70	9.35m Density 1390 1400 1.69m Funnel Viscosity 64s/l 63s/l	21:00 4262.5m 91.8 123.2 22:15 4277.05m 90.9 124.1 22:45 4291.5m 90 123.3		3:45 24:00 0.25 RIG SERVICE/FUNCTION LOWER PIPE RAMS 3 SECONDS TO CLOSE						
Serial No A210817 2MONEL 119 68 Jets 12.7 12.7 8.7 8.7 1V/O 134 61 8.7 8.7 1HVDP 134 61	18.67m Fluid Loss 0.94m pH 9.36m Location of Sample SHAKERS SHAKERS									
Depth Out (m) 1X/O 134 61	0.96m Depth 4231m 4292m 1.41m PVT 54m3 55m3	SOLIDS CONTROL Equipment Hours Intake Run Density	Over Flow Under Flow Density Density							
	0.94m CIRCULATION 48.75m Pump# Type Liner Size SPM Pressure Hours Rum COMBIN: Type Company C	CENTRIFUGE 2 1400	1350 1630							
Entry Date 2016/01/14 1JARS/ HYD MECH 133 62	0.96m 1CDMBIN- 114 75 24000 4 5.19m 2CDMBIN- 114 75 24000 4 B1.20m	MUD MATERIALS ADDE	Amount Type							
T1	0.00m 0.00m Remarks:	OPTI-MUL OPTI-WET	1 EACH							
LOC Total Run (m/hr) Weight of DC	06.00m 0kdaN 72kdaN		Rem	marks: INSPECT FLOOR EQUIPMENT, TONG, BACK UP SLINGS, DEAD MAN, CAT HEAD, ST-80, TUGGER LINE HOO						
METRES DRILLED	20 REDUCED PUMP SPEED		INSPI	SPECT CATWALK,PIPE RACKS,PIPE RACK PINSICHAINS,FLARE AND DEGASSER LINES,LOAD LINE, NCTIONED UPPER & LOWER TRAVEL LIMITS & E-STOPS,CROWN SAVER IGNITER AND PASON CHOKE,MANUAL CHOW						
4232m 4306m DRILL 45 11kdaN Torque at Bottom 780 Fill on Bottom Fill on Bottom 780	0.00Nm		pH Stack Temp SA	NSPECT STABBING VALVE/INSIDE BOP SAFETY Safety Topic MEHL MACP						
1.1.3	@ @	396 4	10 210 DEDR	DRRICK CONNECTIONS 91.00kdaN 2313k						

FRONT PAGE SUMMARY icense No Well Name	Tour Sheet Serial Number 0Y52529_20160118_1A Surface Location	Pason 2016 (onth Day DAILY CHECKS 1) Daily Walk Around Inspection 2) Detailed Inspection - Weekly (Using Check List) 3) HZS Signs Posted if Required CAGDC
Operator's AFE Contractor's Job SDRL0014 75	12-25-078-18W6 RILLING, DIV OF PDCLP ob No ontractor's Rig Manager	BC DLS 102/09-19-078-17/W6/00 Rig No Well Type 529 HORIZ Spud Date Time 2016/01/04 17:30 Rig Release Date Time	4) Well Lúcence & Stick Diagram Posted Be MR Re-Entry Bi Bird Lines Staket Be MR Bi Bird Lines Staket Be MR Bi Bird Lines Staket Bird Lines & Deasser Lines De MR 1) Rig Site Health & Safety Meeting (one/crew/month) 2) CA00C Rig Safety Inspection Checklist (one/rig/month) 3) Mast Inspection before Raising or Lowering
ean Boehnert MARC RAYMON	9 10 11 12	2016/01/20 17:00 13 14 15 16 17 18	4) Crown Saver Checked 5) Motor Kills Checked 5) Motor Kills Checked 19 20 21 22 23 24 25 FUEL @ 08:00 HOURS
		Vait On Nipple Up Test Drillstem Plug Squeeze Eement BOP BOP Test Back Cement F	Safety Tear Waiting Rig Other TOTAL Rig Other TOTAL Rig Other TOTAL Rig Other TOTAL Rig Constant Rig Rig Constant Rig Consta
Total 4.25 7.00 2.50 6.50 1.00			4.00 4.00 Mind Deedin Mind Steepth CALIM FAIR CALIM FAIR CALIM CAL
للفتين كالتباس بالمنظلة المسابقة		DEVIATION SURVEYS	START TIME 00000 END TIME 08:00 TIME LOG
Size	Other	Time Depth Deviation Direction Type 00:00/9306.3m 89.1 123.5 00:45 4321m 89.4 123.2 01:15b/33555m 90 122.1	From To Elapsed Code Details of Operations in Sequence & Remarks 00:00 04:15 4.25 ≥ DRILL 159mm LATTERAL FROM 4306M TO 4415M 04:15 06:00 1.75 ≥0A DIRECTIONAL SURVEYS/CONNECTIONS
Manufacturer REED 1 MONEL 121 68 9.35m	Fund loss 1380 1380 63s/l	01.103.53.535m 90.4 122.9 02:00 4350m 90.4 122.9 02:454364.8m 89.9 122.4 04:454394.05m 88.6 123.5	06:00 07:30 1:505 CIRCULATE BOTTOMS UP 07:30 07:45 0.257 RIG SERVICE/FUNCTION ANNULAR 23 SECONDS TO CLOSE 07:45 08:00 0.2521 HAND OVER MEETING EITH CREWS AND PLAN FORWARD WITH ARC REP
Jets 12.7 12.7 8.7 8.7 1 V/O 134 61 0.94m Bepth Out (m)	pH shakers shakers bepth 4351m 4406m	04:45 4400m 89.3 124.2 SOLIDS CONTROL Equipment Hours Intake Over Flow Under Flow	
	PVT 53m3 56m3 CULATION CULATION CULATION Type Liner Size SPM Pressure Hours Run	Name Run Density Density Density CENTRIFUGE 2 1400 1360 1650	
	COMBINED 114 81 23500 8 COMBINED 114 81 23500 8	MUD MATERIALS ADDED Product Amount Type	
Ti		SARITE 126 EACH CALCIUM NITRATE 1 EACH	
LOC Total Run (m/hr) Weight of DC 0kdaN BRG Weight of String 72kdaN METRIES DRILLED HOLE CONDITION			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,
	DUCED PUMP SPEED	Boiler	FUNCTIONED UPPER & LOWER TRAVEL LIMITS & E-STOPS, CROWN SAVER, IGNITER AND PASON CHOKE, MANUAL CHOKE INSPECT STABBING VALVE/INSIDE BOP
2	2 3825 @ 50 @ 4407	Boiler # Hours Run pH Stack Temp 396 8 10 210	Safety Topic MEHL MACP TRIPPING 102.00kdaN 2313kPa
FOUR 2 SIGNATURE OF DRILLER BITS DRILLING ASSEMBLY MUD	JOSH GILBERT	DEVIATION SURVEYS	START TIME 08:00 END TIME 20:00 TIME LOG
Bit Number 8 No Component OD ID Length		Time Depth Deviation Direction Type	From To Elapsed Code Details of Operations in Sequence & Remarks 08:00 08:15 0.25 CIRCULATE
Manufacturer REED 1MONEL 121 68 9.35m Type SK413M 1GAP SUB 124 70 1.69m Fu	Density 1390 - Funnel Viscosity 65s/l -		08:15 08:30 0.25½*1 SAFETY MEETING/REVIEW COP 2-4 08:30 12:00 3:50 BB TRIP OUT OF HOLE FROM 4415M-2160M. WITH 10 MIN FC'S @ 4415M/ 4200M/2160M. TRIP VOLTCV:10.12m3,TMV:11.20m3,DIFF:1.08m3 12:00 12:15 0.25½*1 SAFETY MEETING PRIOR TO CHANGING WASHPIPE/ RIG SERVICE
Jets 12.7 12.7 8.7 8.7 1X/O 134 61 0.94m 8.7 8.7 1 1X/O 134 61 9.36m Locat	pH	SOLIDS CONTROL	12:45
Depth In (m) 2452 1SLIDE REAMER 150 63 1.41m Total Drilled (m) 1963 12/0 134 68 0.94m	PVT CULATION	Equipment Name Run Intake Density Under Flow Density Density Density Density O	12:45 19:45 7.003 REAMING FROM 2160M-3240M 19:45 20:00 0.25 21 SAFETY MEETING/CREW CHANGE MEETING
Cumulative Hrs Run 56.50 1x/O 133 74 0.96m 1 Entry Date 2016/01/14 JJARS/ HYD 133 62 5.19m 2	Type Liner Size SPM Pressure Hours Run	MUD MATERIALS ADDED Product Amount Type	
Ti	ks:		
LOC Total Run (m/hr) Weight of DC OkdaN Weight of String 72kdaN			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 Down REDU	OUCED PUMP SPEED Jo. Pressure Strokes/min Depth @ @ @	Boiler	INSPECT STABBING VALVE/INSIDE BOP SAFETY SAFETY
Fill on Bottom		Boiler # Hours Run pH Stack Temp 396 12 10 210	Safety Topic MEHL MACP TRIPPING OUT 125,00kdaN 3109kPa
FOUR 3 SIGNATURE OF DRILLER BITS DRILLING ASSEMBLY MUD	DUNCAN STEWART	DEVIATION SURVEYS	START TIME 2000 END TIME 24:00 TIME LOG
No Component OD ID Length	Mud Type Water Oil X	Time Depth Deviation Direction Type	From To Elapsed Code Details of Operations in Sequence & Remarks 20:00 23:00 3:00 SA TRIP IN HOLE, REAM ALL DOG LEGS OVER 3 DEGREES F/3240M- 4415M
Manufacturer REED 1MONEL 121 68 9.35m	Density Funnel Viscosity Fluid Loss		23:00 23:15 0.257 RIG SERVICE,FUNCTION LOWER PIPE RAMS,4 SEC TO CLOSE 23:15 24:00 0.755 CIRCULATE BOTTOMS UP
Jets 12.7 12.7 8.7 8.7 1VO 134 61 0.94m 8.7 8.7 1HWDP 134 61 9.36m Locat	pH	SOLIDS CONTROL	
Depth In (m) 2452 1SLIDE REAMER 150 63 1.41m Total Drilled (m) 1X/O 134 68 0.94m CIRC	PVT 55m3	Equipment Name Hours Run Density Density Under Flow Density Density Density	
Cumulative Hrs Run 56.50 10/10 133 74 0.96m 1 Entry Date 2016/01/14 1µARS/ HYD MECH 133 62 5.19m 2	COMBIN- 114 75 23000 3	MUD MATERIALS ADDED Product Amount Type	
TITING STRUCTURE		DPTI-GLIDE	
MDC Reason Pulled Total 4415.00m LOC Total Run (m/hr) Weight of DC 0kdaN BRG Weight of String 72kdaN METRES DRILLED HOLE CONDITION			Remarks: INSPECT FLOOR EQUIPMENT,TONG,BACK UP SLINGS,DEAD MAN,CAT HEAD,ST-80,TUGGER LINE HOOK INSPECT CATWALK,PIPE RACKS,PIPE RACK PINSICHAINS,FLARE AND DEGASSER LINES,LOAD LINE,
From To D-R-C RPM WOB Hole Drag Up Down REDU	DUCED PUMP SPEED 10. Pressure Strokes/min Depth @ @	Boiler	INSPECT OF IWARD, PIPE RACKS, PIPE RACK PIRISONAIRS, PLAKE AND DEGASSER LINES, LOAD LINE, PUNCTIONED UPPER & LOWER TRAVEL LIMITS & E - STOPS, CROWN SAVER, IGNITER AND PASON CHOKE, MANUAL CHOKE INSPECT STABBING VALVE/INSIDE BOP SAFETY
Fill on Bottom	@ @	Boiler # Hours Run	Safety Topic MEHL MACP REAMING 105.00kdaN 3109kPa

FRONT PAGE SUMMARY											Tour Sheet Serial Number 0Y52529_20160119_1A						Pason 2016					2016	Month I	19	DAILY C 1) Daily Walk And 2) Detailed Inspe	ound Ins	pection	n Check List)	OP F			1_	7
License No 31525 Well Name ARCRES HZ SUNRISE J2-25-78-18 Operator									Surface Location 12-25-078-18W6							BC DLS			Inique Well 102/09-19-0				3) H2S Signs Po 4) Well Licence 5) Flare Lines St	sted if R & Stick D	equired	, ,	DB M DB M	R	CA	OD			
ARC RE	or Source or's AFE	ES .										RILLING	, DIV OF	PDCLP			Rig No 529	'	Well Ty HORIZ				Re-	Entry	BOP Drills Per	rformed	- Flare Lines	& Degasser Line		R	726		
16DRL0	1014 Ire of Ope	erator Rep	present	tative						75 Signa		Contracto	r's Rig M	anager		Spud Date Time 2016/01/04 17:30 Rig Release Date Ti 2016/01/20 17:00					30 ate Time				1) Rig Site Healt 2) CAODC Rig Si 3) Mast Inspecti 4) Crown Saver 5) Motor Kills Ch	afety Insp on befor Checked	pection Chec	one/crew/month klist (one/rig/m Lowering	n) onth)		oas	Pason	
COD			2	3	4		5	6	7		8	9	10	11	12	13	14			16	17	18	19	20	21	22			25		Kelly Bushin	.90 2 @ 08:00	2875.00 HOURS
Tou Tou			Drill ctual	Reaming	Corin		d Mud Circ 2.50	5.00 2.00				Cut Off Irilg Line 0.75	Dev Surve	Wireline Logs	Run Csg & Cement	Wait On Cement	Nipple BOP	Up Tes BOF		Istem est	Plug Back	Squeeze Cement	Fishing	Dir Work	Safety Meeting 0.25 00 0.50	Tear Dow			Other	_	.00 ff Time	13375.00 To 06:00 To Conditions AR	0.00 Temp -11.00 Mind Strength
P Tou		\pm					2.50	7.00		.75		0.75			3.75 11.25				\pm					1.	00 0.75						4.00 III N Road Co		CALM
TO	JR 1		SIG	NATUR	E OI	F DR	ILLER	Г						DUNCA	N STEWAR	ī									STAR	T TI	ME	00:0	00	END T	ME	08:0	00
BITS					_	_	ING AS	-	_		MU	D REC					_	N SUF		_	Total			E LO									
		Size	_	15	\dashv	1 BIT	mponent	159	_	0.20m		N		Water Other	Oil 🗓	I Ime L	ieptn	Deviation	Direction	on	Тур	9	90:00	02:30	Elapsed Co	co		UD & CIRCULA	TE / PUMP	25m3 OF LIC		PLACE WITH	
		turer RE			1	MOTO MONE	L	128	68	9.16m 9.35m			Time Density	01:00		H	\dashv			Ŧ			02:3	07:45	5.006B 0.257	RI	3 SERVICE	HOLE FROM 44 E,FUNCTION	ANNULAR	23 SEC TO	CLOSE		
	Seria	al No	413M	A21081	17 2	GAP S		119	68	1.69m 18.67m		Funnel V Flu	id Loss	74s/			\exists						07:4	5 08:00	0.2521	HA	ND OVER I	MEETING AND	O PLAN FO	RWARD ME	ETING WITH	CREWS ANI	D ARC REP
		8	.7 12.		1	1 X/O 1 HWDF)	134	61	0.94m 9.36m	Loc	ation of	pH Sample Depth	SHAKERS				ONTR	_							+							
	Depth Ou Depth Ir tal Drilled	(m)		245	52 1	-	REAMER		63	0.96m 1.41m	OID	CULA	PVT	4415m 53m3		Equip Na CENTRI	ne	Hours Run	Intal Dens		Density 1370	Under Flo Density 16											
ŀ	Irs Run T	Run Today 15 4.5 " DP 133					74	0.94m 48.75m	Pump#	Туре	Liner Size	-	ssure Hours Ru		OOL	1		400	1370														
	Entry	Entry Date 2016/01/14 1 JARS/ HYD MECH 133					62	0.96m 5.19m		COMBINED	114	-	0000 3	MUD	MA	Product		DDE		nt Type				+									
TI TO	3						$\overline{}$	6.00m												7,													
MDC LOC	BC M	Reas Total R	on Pulle	ed TD	1		Tota		44	0.00m 115.00m 0kdaN	Rema	rks:														+							
BRG	X DES	DRILL		")	-	Weig	eight of DO ht of String	g		72kdaN															_	_		G,BACK UP SI					
From	То	D-R-C	_	M WOB	Н	ole Dra	g Up [Down		REC Pump I			MP SPE trokes/min	Depth								FUNCT	IONED U		R TRAVI	EL LIMITS &	E- STOPS,CR					
					11	que at Bo II on Bo						2 5000	-	60 @	4415	Boile Boile	r#	Hours F	tun	pŀ	1 S	ack Temp	SAF	ETY	DINO VILVE		ty Topic				MEHL	l M	IACP
													@	@		396 8					10	2	TRIPPI	NG OUT		-	.,				98.00kd		2263kPa
TO	UR 2	2	SIG	NATUR	E OI	F DR	ILLER							JO	SH GILBER										STAR	T TI	ME	08:0	00	END T	ME	20:0	00
BITS	Bit Nur	nber 8			D No		ING AS		MBL)		MU	D REC		Water	0il ×			N SUF Deviation			Тур	9	TIM From	E LO To	Elapsed Co	ode		Details	of Operation	ns in Sequ	ence & Rem	arks	
	IADC (Size Code	Т	15	59			+					Time	Other	1		\dashv						08:00	09:15	1.25 6B	\neg		CALC= 17.46N					CK @ 508M.
		turer REE Type SK4						+				Funnel V	Density iscosity				\dashv			+			09:15	10:00	0.75 9A	RE	VIEW COP	6-4A ANDSLI	P/CUT DR	LLING LINE			JLL BLOCK
	Seria	Jets 12	.7 12.	A21081				+				Flu	id Loss pH]				Ŧ			10:00	-	0.75 6F 0.25 21			RILL PIPE FI			EW COP 2-	3	
ı	Depth Ou		.7 8.	441				+			Loc	ation of	Sample Depth			SOLI Equip		Hours	OL Intal	ke C	over Flow	Under Flo	11:00 W 12:00	-	1.00 20I 0.25 7			TOOLS / MV FUNCTION BL					SE / CLEAN
То	Depth Ir tal Drilled			245 196	33						CIR	CULA	PVT TION			Na	ne	Run	Dens	ity	Density	Density	12:1	12:30	0.2521	_	FETY MEE	TING WITH C	REW AND	COPPERHE	AD / PACKE	RS PLUS / S	SIDE DOOR
	Irs Run To ative Hrs	Run		56.5	_						Pump#	Type 1SINGLE	_	SPM Pre	ssure Hours Ru 0 (<u> </u>		TERIA	C A	20-			12:30	-	1.25 12/	A RIG	3 UP POW	/100 TON/SEI ER TONG EC	QUIPMENT	/ PACKER		/ JEWERLY	,
	TING :	Date 201	CTU	RE		Drill F			inds		-	SINGLE	127	0	0 (MOD	MA	Product		וייני		nt Type		20:00	6.25 12	RE	VIEW COF	2 3-1 AND RU	IN LINER,1	0 MIN FC (0m,1419N		
TO	2			OC WT	0	Drill F	Kelly Dow	n	gles		Rema	rks:				E										\pm							
LOC		Total R	on Pulle un (m/h		74		Tota eight of D	c															-			\perp							
BRG M=1	RES I	DRILL D-R-C		M WOB		OLE	COND				DEC	MCE	D DIII	MP SPE	ED								INSPE	CT CATV	VALK,PIPE R	ACKS,F	PIPE RACK	G,BACK UP SI PINS/CHAIN E- STOPS,CR	IS,FLARE	AND DEGA	SSER LINES	LOAD LINE	≡,
TIOIII	10	D-11-0	1111	vi WOD	Torq	ole Drag que at Bo	ottom		Down					trokes/min @	Depth	Boile							INSPE		BING VALVE			. 2 01010,011		T, OHTER	and i riddir.	7101L, N. 111	O/IL OFFICIAL
						II on Bo	ttom						@	@		Boile	r # 396	Hours P	lun 12	pŀ	1 Si	ack Temp	10	NG CASI	NG	Safe	ty Topic				MEHL 40.00kg		IACP 3109kPa
TΩ	UR 3		SIC	NATUR	E O	F D.P.	II LED								N STEWAR										STAR	T TI	ME	20:0	00	END T		24:0	
BITS		<u>, </u>		TAI OIL			ING AS		MBLY	<i>'</i>	MU	D REC	CORD		IN STEWAR		ATIC	N SUF	RVEY	 s			TIM	E LO				20.0	~			24.0	
	Bit Nur	nber Size			No	Co	mponent	OD	ID L	ength		N		Water Other	0il x	Time [lepth	Deviation	Direction	on	Тур	9	From 20:00	-	Elapsed Co 3.75 12	_	IN CASING	Details		ons in Sequ	ence & Rem	arks	
	IADC (Manufact				╁								Time Density	22:00 1380			\dashv			+			23:45	24:00	0.257	RIG	3 SERVICE	FUNCTION	ANNULAR	23 SECON	DS TO CLC	SE	
	Seria	Type al No			$\exists \vdash$			+				Funnel V Flu	iscosity iid Loss	77s/									=			+							
		Jets									Loc	ation of	pH Sample	SHAKERS		SOLI	DS C	ONTR	OL														
ı	Depth Ou Depth Ir				Ł			L					Depth PVT	4415m 29m3		Equip Na	ment ne	Hours Run	Intal Dens		Over Flow Density	Under Flo Density	w			\pm							
ŀ	tal Drilled Irs Run To	oday			┢			\perp			CIR(Type	TION Liner Size	SPM Pre	ssure Hours Ru	n				\pm						\pm							
	ative Hrs Entry	Date						╧				SINGLE SINGLE	_	0	0 (MUD	MA	ERIA		DDE		at Tom				\pm							
TI	TING S	STRU	Gag	ge		Drill F	Pipe	Sin	inds gles									Product			AMOU	nt Type				\pm							
MDC			OD on Pulle	ed	1		Kelly Down Tota	al 🗀			Rema	rks:														\pm							
LOC BRG	DEC.	Total R		II)		Weig	eight of DO	g														+			-			G,BACK UP SI					
From					Down [pth F						FUNCT	IONED U	PER & LOWE	R TRAVI	EL LIMITS &	PINS/CHAIN E- STOPS,CR											
	Torque at Bottom Fill on Bottom							anip i	10. 1105	@ @	@ @	Depth	Boile Boile	r #	Hours F	tun	pŀ		ack Temp	SAF	ETY	BING VALVE		ty Topic				MEHL		IACP			
	Fill On Bottom									@	@			396		4		10	2		NG CASI	NG	Jaie	.y TOPIC				67.00kc		2263kPa			

			FROM	NT F	PAGE SUM	MAR'	4	Tour Sheet Serial Number					Pason 2010					onth Da	20 1	DAILY CH Daily Walk Arou Detailed Inspec	und Inspectio	on aly (Using Check L	DB	RM MR		ŀ	
License No Well Name 31525 ARCRES HZ SUNRISE J2-25-78-18 Operator										face Locatio 5-078-18W6	ın	Di	Prov BC	Loc Type DLS Well Type	Unique V 102/09-1		7W6/00	Po F	3 4 5	H2S Signs Post Well Licence & Flare Lines Sta	ted if Require Stick Diagra ked	ed	DB DB DB	MR MR MR	C	A.O .	
	SOURCES	8						Contractor PRECISION Contractor	N DRILLING, DIV C	F PDCLP		529		HORIZ Spud Date	e Time			Re-E] 7		ed BOPs - Fla	are Lines & Degass		MR	pa	so	n
16DRL00 Signatur Dean Bo	re of Oper	ator Repres	entative					75 Signature o MARC RAY	of Contractor's Rig 'MOND	Manager				17:30 se Date Tim) 17:00	е			3 4	CAODC Rig Saf	fety Inspection n before Rais Thecked	eeting (one/crew/ on Checklist (one sing or Lowering	/rig/month)	MR		Pason		
COD	∃ 1	2	3	4	Cond Mud	6	7 Rig	8 Repair	9 10		12 Run Csg		14 19				0070	19	20 Dir	21 Safety	22 Tear		Dia	5		5.90 EL @ 08	0p Fuel 2375.00 :00 HOURS
Tour Tour Tour	1 2	Actua	Reaming	Cor	3.50 0.50	Trips	Service 0.29	Rig	Drilg Line Surv		& Cement 4.00 5.25	Cement	5.50	P Tes		Cem		ishing	Work	0.25 0.75	Down 4.00		/atch Ot	her TO	8.00 H 12.00 4.00	11000. Time 06 Current Conditions CLEAR Wind Direction N	Temp
Tot	al				4.00	Ţ	0.2	5			9.25		5.50							1.00	4.00				24.00	Road Condition FAIR	
	JR 1	SI	GNATUF		OF DRILLE		MDIV	L	UD DEGOD		AN STEWAR	DEWA	TON OU	DVEVO					- 1 0	STAR	T TIME	Ē	00:00	END	TIME		08:00
BITS	Bit Numb			N			ID Lei		UD RECOR Mud Typ	e Water Other	Oil x		th Deviation			Туре		From	$\overline{}$	Elapsed Cod			etails of Ope				
	a IADC Co Manufactu			#		+			Time	L								00:00	04:00	4.0012	114.3m	ASING Ran 14 nm, 20.10kg/m, 1110 LT&C casi	, VA-EP-P11	0 VAROUG	HNECK,Plus	154 joints 1	1,37 Joints 114.3mm 22.47
	Ty Serial	ре		#					Funnel Viscosity									04:00 04:15		0.257 3.505	RIG SE		ON ANNULAR	23 SECONE			SET TO 4 MPA)
		ets		7		+			ph Location of Sample			SOLIDS	CONTE	ROL				07:45	\rightarrow	0.2521		OVER MEETIN			RD MEETING	WITH ARC	C REP
	epth Out (Depth In (\exists E					Depti PV			Equipme Name	_	_	Over Flor Density		er Flow ensity										
	al Drilled (rs Run Too					\pm		CI Pun	RCULATION 1p# Type Liner Si		essure Hours Ru	n															
	tive Hrs R Entry Da	ate				\pm			1 SINGLE 14 2 SINGLE 12		2600 (2600 2	MUD N	ATERIA Produc			nount	Tuno										
TI	ING S		Gage		Drill Pipe Drill Pipe	Sir	ands ngles						Floud	ı	Al	Hount	туре										
MDC LOC		Reason F Total Run (4		otal		Rer	narks:							_											
BRG	RES D				Weight of Weight of Str	ing)N										II.			-	_	T,TONG,BACK					
From									EDUCED PU							\perp		FUNCTIO	ONED UP		TRAVEL LI	IMITS & E- STOR				MANUAL CHOKE	
				- 11	Fill on Bottom				2 2600 @ @	52 @ @	4411	Boiler #	Hours	Run 8	pH 10	Stack 1	Temp 210	SAF			Safety To			MEHL			MACP
				_					@	@								RUNNIN	G CASIN	IG		,			100.0	0kdaN	2263kPa
	JR 2	SI	GNATUF		F DRILLE						SH GILBER	I								STAR	TIME	E	08:00	END	TIME		20:00
BITS	Bit Numb	oer		N	o Componen		ID Lei		UD RECOR Mud Typ	e Water C	Oil 🗴		th Deviation			Туре		From 08:00	_	Elapsed Cod	$\overline{}$		etails of Ope	rations in S	equence & F	emarks	
	IADC Co Manufactu	ide		#		+			Time		0							08:00	10:00	0.25 21 1.75 12C	RIG UP		RESSURE TE				% KCL WATER @
	Ty Serial	ре		1		Ŧ			Funnel Viscosity	0s/ 0cm3	_										DROP 1		TING BALL,PI				.39m3 KCL AND
		ets	\Box	7		+		4	ph Location of Sample	0	0	SOLIDS	CONTE	ROL				10:00	10:30	0.50 12C	SWITC	H TO INVERT	16.44m3 TC				
	epth Out (Depth In (Depti PV	On Om3	+	Equipme Name		Intake Density	Over Flor Density		er Flow ensity	10:30 11:00	11:00 13:30	0.50 5 2.50 12C	PUMP	29.98M3 INVE	RT BOTTO	MS UP			DNNE (31.70M3)
H	al Drilled (rs Run Toc	lay		1		\pm			RCULATION Type Liner Si		essure Hours Ru	CENTRIFUG	E	8 139	0 11	90	1860	13:30	14:00	0.50 12C	CONT		H 5.0M3 OPT	TFLUSH W/S	6-4 & MS-7, F	ILL CEMEN	T 27.06 TONNE
	Entry D		UDE		D. III Div.				1 14		0 0	MUD N	ATERIA Produc			nount	Туре				DISPLA	ACE W/ 19.45N					ASTIGHT 1850, IG DOWN @
TI TO	ING S		Gage		Drill Pipe Drill Pipe Kelly Do	Sir	ands ngles					BARITE POTASH				59	EACH EACH		14:15 18:00	0.25 21 3.75 14B	SAFET	Y MEETING P				ID PET CAP	ING SLIPS @ 65
MDC LOC		Reason F Total Run (ulled	7		otal		Her	narks:			NEW WASH				1	EACH		19:45	1.75 14E	DECN.	ND INSTALL W			OUT FOR SK	ID. SET CAS	IING SLIFS @ 65
BRG	RES D	RILLED			Weight of Str	ing)N				-					\exists		Remark	S: INSP	ECT FLOOR E	QUIPMEN		UP SLINGS,	DEAD MAN,			ER LINE HOOK LINE,
From	То	D-R-C	RPM WOE	3	Hole Drag Up	_	Down		p No. Pressure			Boiler				_		FUNCTIO	ONED UP		TRAVEL LI	IMITS & E- STOR					MANUAL CHOKE
				با	Fill on Bottom				@	@		Boiler #	Hours	Run 12	pH 11	Stack '	320	SAF			Safety To	opic			MEHL		MACP
									@	@								CEMENT	ring							0kdaN	2263kPa
TOU	JR 3	SI	GNATUF		OF DRILLE		MBLY	Ім	UD RECOR		AN STEWAR		ION SU	RVEYS		_		TIME	E LOC	STAR	T TIME	-	20:00	END	TIME		24:00
	Bit Numb	oer ize			o Componen		ID Ler			e Water C	Oil 🗌		th Deviation			Туре		From	To	Elapsed Coo	_		etails of Ope		•		QUIPMENT,BLOW
N	IADC Co Manufactu	_		-		+			Time Density												_	R AND STEAM					
	Ty Serial			E		\pm			Funnel Viscosity Fluid Loss]															
		ets		╁		\pm			pl Location of Sample			SOLIDS	CONTR	ROL													
	epth Out (Depth In (m)		#					Depti PVI			Equipme Name	nt Hours Run	Intake Density	Over Flor Density		er Flow ensity										
H	al Drilled (rs Run Too ttive Hrs R	lay		#				Pun		e SPM Pre	essure Hours Ru																
	Entry Da		URE		Drill Pipe	St	ands		1 14	+	0 0	MUD M	ATERIA Produc			nount	Туре										
TI TO			Gage ODC	-	Drill Pipe Kelly Do	Sir	ngles	Rer	narks:						+												
MDC LOC		Reason F Total Run (\exists	To Weight of	otal DC									\pm												
	_	RILLED	_		Weight of Str	DITIC						<u> </u>				+		INSPEC	T CATW	ALK,PIPE RA	CKS,PIPE	T,TONG,BACK RACK PINS/C	CHAINS,FLA	RE AND DE	GASSER LII	NES,LOAD	LINE,
From	То	D-R-C	RPM WOE	To	Hole Drag Up		Down		p No. Pressure	Strokes/min		Boiler						INSPEC	T STAB	PER & LOWER BING VALVE/I			PS,CROWN S	AVER,IGNIT	ER AND PAS	ON CHOKE,N	MANUAL CHOKE
		+	+	4	Fill on Bottom			ᆘ	@ @ @	@		Boiler #	Hours 396	Run 4	pH 11	Stack '	330	SAFI TEAR O			Safety To	opic			MEHL 15.0	0kdaN	MACP 0kPa
V12									, , , ,									. LAKU							13.0		OKI 'd