										Tour Sheet Seri	ial Number		Vender S	oftware Versio	n		Year		ionth I	Dav									
License No	Well Name	FR	ONT P	AGE SU	IMMA	RY					465_2016	209_2A	Pro		2016.6.14.	37064 Unique W	20 Vel Id	016		(1.) Daily	Walk Around Inspection - V		Jsing Check Li	র)	OP RM				
32574 Operator	ARCRES H	IZ Septim	us H11-34	4-81-18W6			Contracto	r	1	1-34-81-	18 W6		BC		DLS Well Type	102/09	9-35-081	-18W5	Re-E	(3.) H2S ((4.) Well I	Signs Posted if R Licence & Stick D Lines Staked	Required			RT DS RT		AU		,
ARC Resource	es Ltd.						Precis	ion Drillin	g, div of	PDC			46		Date Time	но	RIZ			(6.) BOP (7.) Visua	Drills Performed Ity Inspected BOI								
16DRL0083 Signature Of Operator's	Representative						35 Signature	Of Contractor's I	Rig Manager					Rig Ri	09-Dec-	2016	1	18:0	00	(2.) CAO	ite Health & Safe DC Rig Safety Ins Inspection before	spection (e Raising	Checklist (one	nonth) /rig/month)	RT RT RT		\mathbb{C}	//	
DOUG SHEA Code 1				-		-		OMPKINS			10	40		45	40	4-		10		(4.) Crow (5.) Motor	n Saver Checked Kills Checked	4		~			Kelly Bushing	Op Fuel	
Code 1		3 Reaming	4 Coring	5 Cond Mud & Circ	6 Trips	Rig Service	8 Repair Rig	9 Cut Off	Dev Survey	Wireline	Run Csg & Cement	13 Wait On Cement	Nipple BOP	Test BOP	Drillstem Test	Plug Back	18 Squeeze Cement	19 Fishin						Rig Watch	25 Other		FUEL (5021 @ 08:00 H	RS
Tour 1 5.7	_		-	& Circ		Service	Rig	Drilg Line	Survey	Logs	& Cement	Cement	BOP	BOP	Test	Back	Cement		- Wo	rk Meetin 0.2	_	-	On	Watch		TOTAL 6.00	28723	Boller 11641	
Tour 2 2.5				1.50															4.	75 0.7	-				2.00		06:00	-26	
SUD Tour 3	0.50			0.50	2.25	0.25														0.5	0					4.00	OVERCA Wind Directio	Wind Streng	, n 9 KM/H
	25 1.00			2.00	2.25	0.25													4.	75 1.5	0				2.00	22.00	Road Condition	a	
TOUR	1 s	GNATURE OF	DRILLER	DAVE L	OEW	/EN																		START	uma 0:	00	END TIME	8:00	
BITS		DF	RILLING A	SSEMBLY		MUD F	ECORD				DEVIATIO						TIME L												
Bit Number Size	1 279	No	Comp	onent O	ID ID Ler	ngth	Mud T	ype Water Other	₫᠃□		Time	Depth	Deviati	on I	Direction	Туре	2:00	2:15 (D MEETIN		JOB S	SAFETY I	Operatio PRIOR	ns in Sequ TO WAL	uance & Rei KING RIG	narks		_
IADC Code	2/9	TE				Time														RIG UP		WAL	ĸ						_
Manufacturer	SICOT					Density Funnel																							
Type Serial No	SS516 1280					Fluid Lo																							
Jets	14.3 14.3 1					Depth	n Of Sample				SOLIDS C		Inta	den la	Over Flow	Under Flow													
	14.3 14.3 1	4.3				PVT					Name	Run	Den		Density	Density													
Depth Out (m)					++	Circul	ation																						
Depth In (m) Total Drilled (m)		$-\Box$		_		Pump #	Type Li	ner Size SP	M Pressure	e Hrs Run																			
Hrs Run Today				_ +		_	+			+	MUD MAT	ERIALS AD Produc			Amount	Туре													
Cumulative Hrs Run Entry Date	0.00		Drill Pipe Drill Pipe	Stan	_						DESCO TKPP			-		2 BAGS 1 BAG	⊫		\pm	1									
Entry Date		010	Drill Pipe Kelly Down	Singl	wed .	Remark	8				HUMALIT	E		+		4 BAGS													
то	ODC Reason Pulled		Total Weight of DC											+			Remar	'KS											
LOC BRG	Total Run (m/hr)		Weight of String																										
METRES DRILLED From To	D-R-C RPM	WOB HO	LE COND	DITION		REDU Pump	# Pres		Strokes/mi	n Depth																			
			Hole Drag	Bottom	Down			@	@ @		BOILER	Ιο Ηοι		pН		ackTemp	SAFETY	Y											
			Fill On	Bottom				@	@		1		5.00 5.00	10 10		340 340				Safety Topi	C				MEHL		N	IACP	_
TOUR	2 s	GNATURE OF	DRILLER	RYAN I	NEWT	ON																		START	u™≊ 8:	00	END TIME	20:00	
BITS		DF		SSEMBLY	_	MUD F	ECORD				DEVIATIO						TIME L												
Bit Number Size	1 279	1	Comp.		10 ID Ler	27	Mud T	ype Water Other	₫᠃□		Time	Depth	Deviati	on I	Direction	Туре	8:00	10:30		RIG UP					ins In Sequ	uance & Rei	narks		_
IADC Code	2/9		8" MUD N	NOTOR 2	04 1 9.0	04 Time											10:45	11:00 (0.25 2 ⁴	F PRE SPI HAZARI) HUNT								
Manufacturer	SICOT		8" CROSSOV		04 58 0.9 66 71 9.3		/iscosity										12:00	13:00 1	1.00 2	5 HEAT U	UT FROZE	EN CO	OLLAR						
Type Serial No	SS516 1280		6.5" GAI	P SUB 1	63 1 1.0	68 pH											13:15	18:00 4	4.75 20	SAFETY D HANDLE	DIRECTIO	ONAL	TOOLS			NAL			
Jets			NON MAG SLICK	K MONEL 10	66 71 9.: 57 58 5.:	39 Location 30 Depth	n Of Sample				SOLIDS C	ONTROL	Inta	den la	Over Flow	Under Flow				SPUD IN ACCUM						CONNECT	IONS		
	14.3 14.3 1	4.3 3	DRILL C	OLLAR 1		PVT					Name	Run	Den		Density	Density													
Depth Out (m) Depth In (m)	0.00		X/O S		35 58 0.1	80 Circul						-																	
Total Drilled (m)	56.0					Pump#		ner Size SP	M Pressure																				_
Hrs Run Today	0.50					2		152 6		-	MUD MAT	ERIALS AD Produc			Amount	Туре													
Cumulative Hrs Run Entry Date	0.50		Drill Pipe Drill Pipe	Stan	0.0	0					TKPP HUMALIT	E				1 sxs 4 sxs													
CUTTING STRUC			Kelly Down	n anga	-8.9		В																						
TO MDC	ODC Reason Pulled		Total Weight of DC		56.0 4.0	_											INSP		RAWW	ORKS, 1	OP DRI	VE, I	DRILL L	INE,	AND DE	EADMAN	ANCHO	RS AND	
LOC BRG		12.00	Weight of String	9	24.0	0														SPECTIO	N								
From To 0.00 56.00 I	D-R-C RPM	WOB HO	Hole Drag		Down	1 Pump	# Pres	_	Strokes/mi	n Depth	BOILER																		
0.00 30.00	DRIEL 30		Torque At		200	<u> </u>	-	@	@			lo Hou	IrsRun 2.00	рН 10	Sta	ackTemp 340	SAFETY	Y		Safety Topi					MEHL			IACP	
			Fill On		-			@	@		2		2.00	10		340	PRESP	UD		Salety Top	0				_				_
TOUR	3 ड			DAVE L																				START	TIME 20	:00	END TIME	24:00	
BITS		DF			D ID Ler	MUD F	ECORD	VDe Weter				Depth	Deviati	on .	Direction	Туре	TIME L		apsed Co	le		-	Detaile Of	Operatio	ins in Sec	uance & Rei	narke		
Bit Number Size	1 279		279MI		79 1 0.:		Mud I	ype Water Other	<u>v</u> "L		20:30			.30	247	.,,,,,,				CREW C	HANGE H	IAND	OVER M					KS, HAZAF	D
IADC Code			8" MUD N 8" CROSSOV		04 1 9.0	04 Time 92 Density			T				-	+			20:15	20:45 (0.50 2	DRILL 1	59MM HOL	LE FR	OM 56M	- 110M.	. DRILL B	BLIND FRO	M 67M - 11	OM DUE TO	5
Manufacturer	SICOT	1 1	8" CROSSOV		66 71 9.:	24 Funnel		1					-							ACCUM	ULATED T	'IME V						WED C.O.F	
Type Serial No	SS516 1280	'	6.5" GAI		63 1 1.1	68 pH 39 Location												21:30 (SECTIO	N 2-4						RCULATIC		
Jets		4.3 14.3 1	6.5" HYD/ME	CH JARS 1	57 58 5.:	30 Depth	out Sample				SOLIDS C	Hours	Inta	ike	Over Flow	Under Flow				DOWN T	OP DRIVE						INCOLATIC	A. BLOW	
	14.3 14.3 1		DRILL C		65 60 56 35 58 0.1	PVT					Name	Run	Den	sity	Density	Density	23:45	24:00 (J.23 7	NIG SEF	VICE, GRI	CASE	AND SE	INVICE	I UP DRI	*=			
Depth Out (m) Depth In (m)	110.0		1.03	55 11	30 00 0.1	Circul						-						_	\pm	-									
Total Drilled (m)	110.0			$-\mp$	$+\top$	Pump#		ner Size SP		Hrs Run								_	\mp	1									
Hrs Run Today	0.50					2		152 6			MUD MAT	ERIALS AD Produc			Amount	Туре		_	+	-									
Cumulative Hrs Run Entry Date	1.00 09-Dec-2	!	Drill Pipe Drill Pipe	Stan		18											╞╧			-									
			Kelly Down	n onde	-11.1	8	s							-		-		-											
TO	ODC Reason Pulled		Total Weight of DC		110.0 4.0									-					CROW		R AND T	RAV	/EL ST	OPS, I	INSPEC	T DRILL	LINE A	ND RIG	
LOC BRG	Total Run (m/hr)	10.00	Weight of String	9	25.0	0								+			HAZA	ARD ID	- DUE	TO COL									
METRES DRILLED From To 56.00 110.00 I	D-R-C RPM	WOB HC			Down	1 Pump	# Pres		Strokes/mi	n Depth	BOILER									IG FLOOR		NG A	- OLIP	INALA	, GC	/ WOR	ALKS IC	STEAM	
30.00 110.00	DRILL 50	3	Hole Drag Torque At		Down 250	<u>.</u>	-	@	0		Boiler		rsRun	pH		ackTemp	SAFETY	Y											
			Fill On				1	@	@		1		4.00 4.00	<u>10</u> 10		340 340	WINTER	R OPERA	TIONS	Safety Topi	D			27	MEHL		N	IACP	

			FR	ONT P	AGE SU	MMAR	Y			ľ	Four Sheet Serie	al Number 465_20161	210_1A	Vender S	ottware Versio RMS 2		37064	Year 20	Mont 16 1	Day 2 10	DAILY C		vection		OP RM		1	
License No 32574		Well Name	IZ Septim	us H11-34	4-81-18W6					5	Surface Location	1		B		Loc Type	Unique V 102/09	9-35-081-			(2.) Detailed I (3.) H2S Sign (4.) Well Lice	Inspection - W is Posted if Re nce & Stick Di	leekly (Using Check equired lagram Posted	k List)	DS RT DS RT	ં		DC)
Operator ARC Res Operator's AFE		Ltd.						Contracto Precis Contracto	ion Drilling	, div of	PDC			Rig 46	5	Well Type	но	RIZ		Re-Entry	(5.) Flare Line (6.) BOP Drill (7.) Visually In	s Performed	Ps-Flare Lines & De	agasser Lines				
16DRL00								35	Of Contractoria R	a Managar					Rig Rig	09-Dec	-2016	1	18:00		(2.) CAODC F	Rig Safety Insp	y Meeting (one/crev pection Checklist (o Raising or Lowerin	one/rig/month)			\mathbf{V}	
DOUG S									OMPKINS	g manga								1			(4.) Crown Sa (5.) Motor Kill	aver Checked Is Checked			RT		ily Bushing	Op Fuel
Code	1 Rig Up	2 Drill Actual	3 Reaming	4 Coring	5 Cond Mud & Circ	6 Trips	Rig Service	8 Repair Rig	9 Cut Off Drilg Line	Dev Survey	11 Wireline Logs	Run Csg & Cement	13 Wait On Cement	Nipple BOP	Test BOP	Drillstem Test	Plug Back	18 Squeeze Cement	19 Fishing	20 Dir Work	Safety Meeting	Tear Down	28 Waiting On	Rig Watch	25 Other	TOTAL 12	FUEL @	3638 08:00 HRS
Tour 1									_														8.00				5085 ^{Time} 06:00	11641 Temp -25
Your 2					0.25	1.00	0.25					1.50	1.50 2.75								0.25		7.50			12.00	OVERCAS	ns
TOTAL					0.25	1.00		-				2.25									0.23		15.50			24.00	N Road Condition FAIR	UP TO 19 KM/
тои	jr 1	1 s#	GNATURE O	FDRILLER	DAVE L	OEW	EN					•												START	TIME O:	:00		8:00
BITS			DF	RILLING A	SSEMBLY		MUD R	ECORD				DEVIATIO	N SURVEY	s				TIME L	DG									
Bit M	-	1	No.	Comp 279M		D ID Leng	jth 7	Mud T	ype Water Other	₫᠃□		Time	Depth	Deviati	on E	Direction	Туре	From 0:00	To Elap: 8:00 8.0	ed Code 0 23A	N/O CEME	INTER	Details O	of Operation	ons In Seq	uance & Rem	arks	
IAD	Size C Code	279		8" MUD N	IOTOR 20	04 1 9.0	4 Time			┯					_													
Manuf		SICOT		8" CROSSOV	MONEL 16	04 58 0.9 56 71 9.2	4 Funnel	Viscosity		_				-														
Se	Type erial No	SS516 1280		6.5" GA	P SUB 16	53 1 1.6 56 71 9.3	8 pH	n Of Sample		_																		
	F	4.3 14.3 1		6.5" HYD/ME	CH JARS 15	57 58 5.3	0 Depth PVT			_		Equipment Name	Hours	Inta		Over Flow Density	Under Flow Density											
Depth		4.3 14.3 1		X/OS		35 58 0.8	0 Circul	ation				Tunto			any	Durinity	Durany											
	h In (m)	0.00					Pump #		ner Size SPN	Pressure	Hrs Run			+														
Total Dril Hrs Run		110.0 0.00	_									MUD MATI																
Cumulative H	- H	1.00	<u> </u>	Drill Pipe	Stand			$\left \right $		-	┼─┦	TKPP HUMALIT	Produc				Type 2 EACH 4 EACH	\square										
Ent CUTTING S		URE Gage	:U16 0	Drill Pipe Kelly Down	Singk	0.00 ∣≃ 11.18-	Remark	s I		•		NATURAL					4 EACH											
TO MDC		ODC Reason Pulled		Total Weight of DC		110.00	-										-									MITS INSI DRILL LI		
LOC BRG		Total Run (m/ht)	10.00	- Weight of String		25.00		CED PUMP	SPEED									OBSE	RVATIO	DN - WI	ILE UNI	LOADI	NG CASIN	NG WO	RKER V		NDING W	ITHIN THE
From	RILLED To D-	-R-C RPM	WOB HO	Hole Drag		Down	Pump		ssure S	trokes/mi	n Depth	BOILER						FINIS										
	+			Torque At Fill On					0	0		BoilerN 1		4.00	<u>р</u> Н 10		ackTemp 340				afety Topic				MEHL		MA	CP
тои	JR 2	2 si	GNATURE O		RYAN I	NEWTO	ON		Q	@		2		4.00	10		340	WINTER	OPERATI	ON				START		:00	ENDTIME	20:00
BITS					SSEMBLY			ECORD				DEVIATIO	SURVEY	s				TIME L	DG									
	Number	1	No	Comp 279M		D ID Leng	jth	Mud 1	ype Water	₫ °" 🗖		Time	Depth	Deviati	on E	Direction	Type	From	To Elaps		N/O CEME	INTER	Details O	of Operation	ons In Seq	uance & Rem	arks	
IAD	Size C Code	279		8" MUD N	IOTOR 20	04 1 9.0	4 Time		Uther	-				-				14:00	14:15 0.2	5 6A	TRIP IN HO	DLE 3 ST	ANDS OPE	NDED TO RIGGING	O CEMEN 3 IN CEME	T PLUGS ENTERS AN	D CEMENT	ING PLUGS
Manuf		SICOT	- 1	8" CROSSOV		04 58 0.9 56 71 9.2	4 Funnel	Viscosity										15:00	16:00 1.0	0 12F		LUGS 2	7 TON OF C		PUMPED	NO RETURI	NS	
Se	Type erial No	SS516 1280		6.5" GA	P SUB 16	53 1 1.6	8 pH	n Of Sample										16:15	17:45 1.5	0 13	WAIT ON C	CEMENT	E 3 STANDS		CEMENT (@ 66M		
	Jets 1	4.3 14.3 1	4.3 14.3 1	6.5" HYD/ME	CH JARS 15	57 58 5.3		h Of Sample		_		SOLIDS CO	Hours	Inta		Over Flow	Under Flow	18:00	18:15 0.2	5 5		FRESH	WATER TO			SLISH CIRCU	JLATION	
Depth		4.3 14.3 1		X/O S	UB 13	55 60 56.3 35 58 0.8	10					Name	Run	Den	sity	Density	Density	18:30	20:00 1.5	0 23A	W/O CEME	NT	_					
Depti	th In (m)	0.00					Circul Pump #		ner Size SPN	Pressure	Hrs Run																	
Total Dril Hrs Run		110.0										MUD MATI	ERIALS AD	DED														
Cumulative H	Hrs Run	1.00	!	Drill Pipe	Stand	s 27.78	в —						Produc	t		Amount	Туре											
Ent		09-Dec-2 ਸ਼ਰਤ	2016 0	Drill Pipe Kelly Down	Singk	<mark>∞ 0.00</mark> 11.18-		s											_									
TI TO MDC		Gage ODC Reason Puled		Total Weight of DC		110.00	D										-									MITS INSI DRILL LI		
LOC BRG		Total Run (m/ht)	10.00	Weight of String	1	25.00	5										-	RISK	OBSER	VATIO	N: THIRD	D PART	Y HAND	ATTEM	IPTING	TO WALK	(BEHIND	SHALE
From	RILLED To D-	-R-C RPM	WOB HO	Hole Drag		Down	Pump	# Pres	sure S	trokes/mi	n Depth	BOILER						HAND	TO TH	INK AE	OUT TH	E OUT	COME OF WORK S	HIS A	CTIONS	S SHOWE	D HIM TH	IE
				Torque At					@ @	@				2.00	рН 10.5	5	ackTemp 340	SAFETY		S	afety Topic				MEHL		MA	CP
тои	JR 3	3 si	GNATURE O	Fill On		OEW	EN		@	@		2	1	2.00	10.5	5	340	CRITICA	L LIFTING	AND SLI	IGING DEVI	CES		START	TIME 20	:00	ENDTIME	24:00
BITS					SSEMBLY			ECORD				DEVIATIO	N SURVEY	s				TIME L	OG						_			
	Number	1	No	Comp 279M	onent O	D ID Leng	pth		ype Water	₫ °" 🗖		Time	Depth	Deviati	on (Direction	Type	From	To Elaps		CREW CH	ANGE H				uance & Rem SSED ONGO		S, HAZARD
IAD	Size C Code	279	[1	8" MUD N	IOTOR 20	04 1 9.0	4 Time		Other									20:15	20:30 0.2	5 12F	DS AND C	BSERVA	ATIONS WIT (10M3) NO I	гн вотн	CREWS.			
Manuf	facturer	SICOT	1 1	8" CROSSOV		04 58 0.9 56 71 9.2	4 Funnel											20:30 2 22:00 2	22:00 1.5 22:30 0.5	0 13 0 12F	WAIT ON C	CEMENT PLUG #3	(12M3) NO I					
R.	Type erial No	SS516 1280		6.5" GA	P SUB 16	₅₃ 1 _{1.6}	8 pH	n Of Sample													NAIT ON O							
3	Jets 1	4.3 14.3 1	4.3 14.3 1	6.5" HYD/ME	CH JARS 15	57 58 5.3		1 Uf Sample	-	+		SOLIDS CO	Hours	Inta		Over Flow	Under Flow	╞┼	_									
Depth		4.3 14.3 1		DRILL C	OLLAR 16	65 60 56.3 55 58 0.8	10					Name	Run	Den	sity	Density	Density	E										
	th In (m)	0.00					Circul Pump #		ner Size SPN	Pressure	Hrs Run																	
Total Dril Hrs Run		110.0										MUD MATI	RIALS AD	DDED						\pm								
Cumulative H	Hrs Run	1.00	!		Stand	≈ 27.78	в	$\left \right $			┝─┤	ENVIROP	Produc LUG	t		Amount 1	Type 0 SX											
Ent CUTTING S		09-Dec-2 ਪੁਲ਼=	2016 0	Drill Pipe Kelly Down	Singk	= 0.00 -11.18	Remark	s										╞╡										
TI TO MDC		Gage ODC Reason Puled		Total		110.00	D											Remark FUNC	TION C	ROWN	SAVER I	HIGH/L	OW TRAV	VEL ST	OPS/LI	MITS INSI	PECT FLO	DOR
LOC		Total Run (m/hr)	10.00	Weight of DC		4.00											-						M LINE I			DRILL LI	NE ANCH	IUKS.
METRES DR		-R-C RPM	WOB HO	DLE COND				# Pres	sure S	trokes/mi	n Depth	BOIL FR																
	+			Hole Drag Torque At	Bottom	Down	F	-	@ @	@	H	BOILER BoilerN 1		ursRun 4.00	<u>рН</u> 10		ackTemp 340	SAFETY		0	afety Topic				MEHL		MA	CP
				Fill On	Bottom			1	@	@		2		4.00 4.00	<u>10</u> 10		340 340	CEMEN	TING	S	andry 10pic				MEHL		MA	UP .

		Tour Sheet Serial Number	Vender Software Versio	on	Year Month Day DAILY CHECKS OF RM
License No Well Name	DNT PAGE SUMMARY	PREC465_201612	Prov	2016.6.14.37064	2016 12 11 (1.) Daily Walk Around Inspection (2.) Detailed Inspection (2.) Detailed Inspection-Weekly (Using Check List) DS RT DS RT CAGDDC
32574 ARCRES HZ Septimus Operator ARC Resources Ltd.	s H11-34-81-18W6	Contractor Precision Drilling, div of PDC	Rig No 465	Well Type HORIZ	33-001-16W05 (4) Well Licence & Sick Diagram Posted DS RT Re-Entry (5) Fare Lines Staked Image: Comparison of the State
Operator's AFE 16DRL0083		Contractor's Job No 35	Spud D	09-Dec-2016	(1.) Visually imported by UM-2-state Lines & Degaster Lines (1.) Rig Site Health & Safety Meeting (one)crew/month) (2.) CADCER Tis Safety Meeting (Cherkies (one)chiromoth)
Signature Of Operator's Representative DOUG SHEA		Signature Of Contractor's Rig Manager ROD TOMPKINS	rign	elesse Cale Time	(4) Mait Ingection before Raising or Lowering (4) Chron Saver Checked (5) Metor Kills Checked (6) Metor Kills Checked (7)
Code 1 2 3 Rig Drill Reaming Up Actual	4 5 6 7 Coring Cond Mud Trips Rig Service	8 9 10 11 12 Repair Cut Off Dev Wireline Run Csg Rig Drilg Line Survey Logs & Cement	13 14 15 Wait On Cement Nipple BOP Test BOP	0.7	18 19 20 21 22 23 24 25 Squeeze Faihing Dr. Saletze Walk Down FUEL @ 06.100 HRS Centerst Fublic Work Meeting Down One TOTAI TOTAI TOTAI TotAI
Tour 1 1.00			5.50		8.00 10190 Time
4.25	5.25 2.50 0.75 2.75				12.00 H 06:00 -21 12.00 H 00:00 -21 0VERCAST OVERCAST
TOTAL 5.25	6.00 5.25	1.50	5.50		0.50 4.00 Wind Structure 0.50 24.00 24.00 King Wind Structure Fata Constant
TOUR 1 SIGNATURE OF D					START TIME 0:00 END TIME 8:00
BITS DRIL	LING ASSEMBLY MUD RE				TIME LOG
Bit Number 1	Component OD ID Length 279MM BIT 279 1 0.27	Mud Type Water Oil Time Other	Depth Deviation I	0	From To Espeed/Code Details Of Operations in Sequence & Remarks 0:00 0:30 0.50 13 WAIT ON CEMENT 0:01 10:00 0:50 12F PUMP CEMENT PLUG #4 (8M3) @ 68M, NO RETURNS
IADC Code	" MUD MOTOR 204 1 9.04 Time - CROSSOVER SUB 204 58 0.92 Density	06:15		1	0.30 1.30 0.30 1.27 POWP CEMENT PLOS #4 (8m3) @ 68m, NO RETURNS 1:00 2:30 1.50 13 WAIT ON CEMENT 2:30 3:30 1.00 12F PUMP CEMENT PLUG #5 (8M3) @ 48M, GOOD RETURNS
Manufacturer SICOTTE 1,	CN MAG SLICK MONEL 166 71 9.24 Funnel Vis 5.5" GAP SUB 163 1 1.68 sub	cosity 30		3	3:30 7:00 3:50 13 WAIT ON CEMENT SAMPLES TO HARDEN, CIRCULATE BHA @ 30M 7:00 8:00 1.00 2C DRILL OUT CEMENT FROM 30M - 61M
Serial No 12807 1	ON MAG SLICK MONEL 166 71 9.39 Location O	12 If Sample TANK 2 SOLIDS COT	NTROL		
14.3 14.3 14.3 6	.s ⁻ HYD/MECH JARS 157 58 5.30 Depth DRILL COLLAR 165 60 56.76	32 Equipment Name		Over Flow Under Flow Density Density	
Depth Out (m) 1 2 Depth In (m) 0.00	K/O SUB 135 58 0.80 Circulati	on			
Total Drilled (m) 110.00	Pump #	Type Liner Size SPM Pressure Hrs Run			
Hrs Run Today Cumulative Hrs Run 1.00 1				Amount Type	
	Mill Pipe Stands 27.78 Mill Pipe Singles 0.00 Remarks			4 BAGS	
TI Gage TO ODC	Kelly Down -11.18 Total 110.00			R	Armarks Remarks FUNCTION CROWNSAVER HIGH/LOW TRAVEL STOPS/LIMITS INSPECT FLOOR
LOC Total Run (mhr) 110.00	Neight of DC 4.00			E	EQUIPMENT TOP DRIVE, DRAWWORKS, DRILL LINE AND DRILL ANCHOR. OBSERVATION - WORKER WAS STANDING IN THE DIRECT LINE OF FIRE WHEN
METRES DRILLED From To D-R-C RPM WOB	E CONDITION REDUCE	Pressure Strokes/min Depth			ANOTHER WORKER WAS SWINGING A SLEDGE HAMMER, GOT WORKER TO STAND BACK.
H	Torque At Bottom	BOILER	HoursRun pH		SAFETY Safety Topic MEHL MACP
TOUR 2 SIGNATURE OF D		@ @ 2	8.00 10		
	RILLER RYAN NEWTON	CORD DEVIATION		-	
Bit Number 1	Component OD ID Length	Mud Type Water Oil Oil Time		Direction Type F	TIME ECO Elispsed Code Details Of Operations in Sequence & Remarks 8:00 9:00 1.00 2C DRILL CEMENT FROM 61M TO 110M
Size 219	279MM BIT 279 1 0.27 " MUD MOTOR 204 1 9.04 Time	09:00 14:00 09:45	105.18 0.70	226.1 9	0.00 12:05 3.25 2 DRLE 279MM HOLE FROM 110M to 464M 12:15 17:00 4.75 5 ACCUMULATIVE TIME TO WORK STRING AND MAKE CONNECTIONS
Manufacturer SICOTTE 1	* CROSSOVER SUB 204 58 0.92 Density ON MAG SLICK MONEL 166 71 9.24 Funnel Vis		133.01 0.60 160.84 0.90	217.9 1	17:00 17:30 0.50 5 DISPLACE TO HIGH VISCOSITY MUD AND CIRCULATE HOLE CLEAN 17:30 20:00 2.50 6M WIPER TRIP FROM 464M TO 68M TO 464M
	5.5" GAP SUB 163 1 1.68 PH ON MAG SLICK MONEL 166 71 9.39 Location O	12:15 10 10 12:45 M Sample SHAKER SHAKER	188.68 0.80 216.55 1.30	108 112.1	
Jets 14.3 14.3 14.3 14.3 14.3	5° HYD/MECH JARS 157 58 5.30 Depth	33 33 33 SHAKER	Hours Intake (Over Flow Under Flow Density Density	
	DRILL COLLAR 165 60 901 K/O SUB 135 58 0.80 Circulati		Run Density	Density	
Depth In (m) 0.00 Total Drilled (m) 464.00		Type Liner Size SPM Pressure Hrs Run			
Hrs Run Today 3.25		MALLEE 165 70 11000 10.00 MUD MATER		Amount Type	
Cumulative Hrs Run 4.25 14 Entry Date 09-Dec-2016 0	Will Pipe Stands 389.53	ARALLEL TOO TO THOUGH LOOG	D	2 SXS 60 SXS	
CUTTING STRUCTURE TI Gage	Kelly Down -18.93	TKPP CAUSTIC		1 SXS 1 SXS R	Remarks
TO ODC MDC Reason Pullet LOC Total Run (mht)	Total 464.00	SAWDUST		E	FÜNCTION CROWNSAVER HIGH/LOW TRAVEL STOPS/LIMITS INSPECT FLOOR EQUIPMENT TOP DRIVE, DRAWWORKS, DRILL LINE AND DRILL ANCHOR.
BRG We		D PUMP SPEED			OBSERVATION -
From TO D-R-C RPM WOB	Drag Up Down Pump #	@ @ Boiller	o HoursRun pH	StackTemp S	SAFETY
	Fill On Bottom	@ @ Donemic @ @ 1 @ @ 2	12.00 10 12.00 10	340	Safety Topic MEHL MACP DERRICK CONNECTIONS
					START TIME 20:00 END TIME 24:00
BITS DRIL Bit Number 1	Component OD ID Length MUD RE	CORD DEVIATION Mud Type Water Oil Time		Direction Type F	TIME LOC From To Elapsed Code Details Of Operations In Sequance & Remarks
Size 279 12	279MM BIT 279 1 0.27	Other		2	20:00 20:15 0.25 21 CREW CHANGE HAND OVER MEETING. DISCUSSED HAZARD IDS AND OBSERVATIONS WITH BOTH CREWS.
	CROSSOVER SUB 204 58 0.92 Density	20:45		2	20:15 20:45 0.50 6M WIPER TRIP BACK INTO 464M 20:45 21:30 0.75 5 GIRCULATE HOLE CLEAN, BLOW DOWN TOP DRIVE. 21:30 21:45 0.25 21 SAFTEY MEETING HELD PRIOR TO TRIPPINGOUT OF THE HOLE. REVIEWED
Type SS516GB 1 e	ON MAG SLICK MONEL 166 71 9.24 Funnel Vis 5.5" GAP SUB 163 1 1.68 pH	10		2	21:45 23:00 1.25 6B TRIP OUT OF HOLE TO RUN CASING.
Serial No 12807 1 , Jets 14.3 14.3 14.3 14.3 14.3 16	DN MAG SLICK MONEL 166 71 9.39 Location O .5° HYD/MECH JARS 157 58 5.30 Depth	M Sample SOLIDS CON		2	23:00 24:00 1.00 6D HANDLE BHA. LAY DOWN M.W.D TOOL & MUD MOTOR.
14.3 14.3 14.3 6 [NUMELIARS 10 50 500 PVT DRILL COLLAR 165 60 56.76 PVT K/O SUB 135 58 0.80 PVT	Equipment Name		Over Flow Under Flow Density Density	
Depth Out (m) 464.00 1 2 Depth In (m) 0.00	Circulati	ON Type Liner Size SPM Pressure Hrs Run			
Total Drilled (m) 464.00	1,	105 70	RIALS ADDED		
4.05	Mil Pipe Stands 389.53	ADULTE 165 70 6000 1.00		Amount Type	
Entry Date 09-Dec-2016 0 CUTTING STRUCTURE					
TI 2 Gage 0 TO 4 ODC NO MDC CT Rasson Pulset TD	Total 464.00				
LOC S Total Ran (milt) 109.18 We	Weight of DC 8.00 ight of String 48.00			C	EQUIPMENT TOP DRIVE, DRAWWORKS, DRILL LINE AND DRILL ANCHOR. OBSERVATION - WORKER WAS STEAMING OFF RIG FLOOR WHILE DRILLER WAS WORKING STRING, STEAM IMPAIRED VISION FOR DRILLER. GOT WORKER TO TURN
From To D-R-C RPM WOB	E CONDITION REDUCE Pump # Down				OFF STEAM.
	Torque At Bottom	BoilerNo 1	HoursRun pH 4.00 10	340	Safety Topic MEHL MACP
	Fill On Bottom	@ @ 2	4.00 10) 340 TI	TRIPPING PIPE 47

_											four Sheet Serie	al Number		Vender Sc	oftware Version	n		Year	Month	Day	DAILY CI	HECKS			OP RM		Page 2	of 3
License No		Well Name				SUMMA	RY			1	PREC Burface Location	465_20161	211_1A	Pro	v	Loc Type	Unique W	201 fell ld		2 11	(1.) Daily Wal (2.) Detailed I	lk Around Inspe	ekly (Using Cha	ack List)	DS RT		A	
32574 Operator		ARCRES H	IZ Septim	us H11-34	4-81-18\	W6		Contracto						BC Rig 46	No	Well Type		-35-081-1	18W5	Re-Entry	(4.) Well Licer (5.) Flare Line (6.) BOP Drill:	nce & Stick Dia es Staked	gram Posted		DS RT			
Operator's AP 16DRL0	FE	Lta.						Contracto 35	ion Drillin rs Job No	g, aiv or i	PDC			40	Spud D	late Time 09-Dec	-2016		18:00		(1.) Rig Site H (2.) CAODC F	Health & Safety Rin Safety Insor	-Flare Lines & I Meeting (one/cr ection Checklist	rew/month)	RT			
Signature Of DOUG	Operator's Rep	presentative							Of Contractor's R						Rig Re	lease Date Time		1			(3.) Mast Insp (4.) Crown Sa (5.) Motor Kill:	ection before R aver Checked	Raising or Lower	ring	RT			
Code	1 Rig	2 Drill	3 Reaming	4 Coring	5 Cond M	6 ud Trips	7 Big	8 Repair	9 Cut Off	10 Dev	11 Wireline	12 Bun Cso	13 Wait On	14 Nipple	15 Test	16 Drillstern	17 Plug	18 Squeeze	19 Fishing	20 Dir	21 Safety	22 Tear	23 Waiting	24 Big	25 Other		FUEL @ 0	2036 8-00 HRS
	Rig Up	Drill Actual	rouning	County	Cond Mi & Circ	inpa	Rig Service	Repair Rig	Cut Off Drilg Line	Dev Survey	Logs	Run Csg & Cement	Wait On Cement	Nipple BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	1 daming	Dir Work	Safety Meeting	Tear Down	Waiting On	Rig Watch	Outer	TOTAL 8	3049 Time	Boller 10190
Tour 1		4.25			5.2	5 2.50)						0.00													12.00	06:00 Current Conditions OVERCAST	-21
Tour 3 TOTAL		5.25			0.7	5 2.75 0 5.25	-					1 50	5.50								0.50					4.00	Wind Direction N Road Condition	Wind Strength UP TO 19 KM/H
TOTAL	ur 1					LOEW	· · ·					1.30	5.50								0.50			START		24.00 ≧):00		3:00
BITS	IUR	58				-		ECORD					N SURVEYS					TIME LO						START				5.00
	Number	1	No	Comp	onent	OD ID La	ngth		ype Water	₫ °"□		Time	Depth	Deviatio	on D	Direction	Туре		To Elaps	ed Code			Details	Of Operati	ions In Se	quance & Rem	arks	
	Size DC Code	279		279MI 8" MUD N		279 1 0 204 1 9			Other																			
	-	SICOT		8" CROSSOV		204 58 0		/iscosity																				
	Type Serial No	SS516 1280		6.5" GAI		163 1 1	.68 pH																					
	-	4.3 14.3 1	4.3 14.3 1	6.5" HYD/ME	K MONEL	157 58 5		of Sample				SOLIDS CO	Hours	Intai		Over Flow	Under Flow											
Denth	1 Out (m)	4.3 14.3 1	4.3 6	DRILL C	OLLAR	165 60 ₅	80					Name	Run	Dens	sity	Density	Density		_	+								
	ith In (m)	0.00					Circula Pump #		ner Size SPI	Pressure	Hrs Run																	
Total Dr Hrs Ru	-	110.0										MUD MATI	RIALS AD	DED														
Cumulative	Hrs Run	1.00	!	Drill Pipe		Stands 27.			-	-			Product			Amount	Туре		+	++								
Er		09-Dec-2	016 0	Drill Pipe Kelly Down		Singles 0.0 -11.1		5		_										+								
TO MDC		Gage ODC Reason Pulled		Total		110.0	0																					OR
LOC BRG	_	Total Run (m/hr)	10.00	Weight of DC	9	4.0 25.0	0											OBSER	RVATIC	N - WO	RKER V	NAS ST	ANDING	G IN TH	E DIRE	D DRILL AN CT LINE C ER, GOT W	F FIRE WI	
From	To D-	R-C RPM	WOB HO	Hole Drag		Down	Pump	# Pres	sure S	trokes/mi	n Depth	BOILER						BACK.		JKKEK	WAS 5	WINGIN	IG A SL	EDGE F		ER, GOT W	ORNER IN	USTAND
				Torque At	-				œ	0			lo Hou	rsRun	рH	St	ackTemp			Sa	fety Topic				MEHL		MAC	P
то	UR 2	SI	SNATURE OF	Fill On		NEW1	ON		œ	Q								CEMENTI	ING					STAR		3:00	ENDITIME 2	0:00
BITS	-			RILLING A				ECORD				DEVIATIO	N SURVEYS	3				TIME LO	06								-	
	Number	1	No	Comp.		00 ID La 279 1 0	ngth		ype Water	₫᠃□		Time 13:30	Depth	Deviatio	.60	Direction 327.1	Туре		To Elaps	ed Code			Details	Of Operati	ions In Se	quance & Rem	arks	
IAI	Size DC Code	279		8" MUD N		204 1 9	.04 Time		Uther			14:00	272.2	4 1	.10	307.3												
Manu		SICOT		8" CROSSOV		166 71 9	.92 Density .24 Funnel V					14:45 15:00	327.7	90	.50 .40	25.7 356.2												
	Type Serial No	SS516 1280		6.5" GAI		163 1 1	.68 pH .39 Location					15:30 16:00			.40 .40	308.3 304			_									
	Jets 14	4.3 14.3 1	4.3 14.3 1	6.5" HYD/ME	CH JARS	157 58 5		i or sample		_		Equipment	Hours	Intai		Over Flow	Under Flow											
Depth	1 Out (m)	4.3 14.3 1 464.0	- 4	X/O S		165 60 5 135 58 0	80					Name	Run	Den	sity	Density	Density											
	ith In (m)	0.00				$\left \right $	Circula Pump #		ner Size SPI	Pressure	Hrs Run																	
Total Dr Hrs Ru	rilled (m) un Today	464.0				$\left \right $	1					MUD MATI	RIALS AD															
Cumulative		4.25		Drill Pipe		Stands 389.		PARALLEL	165 70	11000	1.00		Product			Amount	Туре											
Er CUTTING		19-Dec-2	016 0	Drill Pipe Kelly Down	-	Singles 0.0 -18.9		5																				
TO MDC		ODC Resson Pulled		Total Weight of DC		464.0 8.0	_								-											IMITS INSI		OR
LOC BRG	011150	Total Run (m/hr)		Weight of String	9	48.0	0	CED PUMP	SPEED										RVATIC		,		,					
METRES D		R-C RPM	WOB HO	Hole Drag		Down	Pump			trokes/mii @	n Depth	BOILER																
Ħ	\pm			Torque At Fill On	-		_		@ @	0		BoilerN	lo Hou	rsRun	рH	St	ackTemp	SAFETY	CONNEC	Sa	fety Topic				MEHL		MAC	Р
то	ur 3	si	SNATURE OF	_		LOEW	/EN									<u> </u>								START	111ME 2	0:00	enditime 2	4:00
BITS			DF	RILLING A			MUD R	ECORD					SURVEYS					TIME LO										
Bit	Number Size	1 279	No 1	Compo 279M				Mud 1	ype Water Other			Time	Depth	Deviatio	on D	Direction	Туре	From	To Elaps	ed Code			Details	Of Operati	ions In Se	quance & Rem	arks	
IAI	DC Code		\square	8" MUD N 8" CROSSOV	NOTOR	204 1 9	.04 Time .92 Density			┯								\models	+	++								
Manu		SICOT SS516		NON MAG SLICK	K MONEL	166 71 9	.24 Funnel V	/iscosity ss		+					-				\mp	+								
5	Serial No	1280		6.5" GAI		166 71 9	.68 pH .39 Location			-		SOLIDS CO	NITRO															
	E F	4.3 14.3 1 4.3 14.3 1	4.3 14.3 1	6.5" HYD/ME	CH JARS	157 58 5 165 60 5	30 Depth PVT					Equipment Name	Hours Run	Inta Dens		Over Flow Density	Under Flow Density	\square		\pm								
Depth	1 Out (m)	464.0	0 1	X/O S		135 58 0	.80 Circula	ation										\models	+	++								
Dep Total Dr	ith In (m) rilled (m)	0.00					Pump #	Type Li	ner Size SPI	_																		
Hrs Ru		0.00		L			1	PARALLEL	165 70 165 70		1.00	MUD MAT	RIALS AD Product			Amount	Туре			\square								
Cumulative		4.25 9-Dec-2		Drill Pipe Drill Pipe		Stands 389. Singles 0.0	53				1.00				-				\pm									
		Gage	0	Kelly Down	·	-18.9)3	8										Remarks										
TO MDC LOC	4 CT	Rasson Pulled	NO TD	Total Weight of DC		464.0 8.0	_											EQUIP	MENT .	TOP DF	RIVE, DR.	AWWO	RKS, DF	RILL LIN	NE AND	IMITS INSI	ICHOR.	
BRG	S X DRILLED			Weight of String		48.0		CED PUMP	SPEED								\square	WORK	ING ST							oor Whil Ler. Got		
From	To D-	R-C RPM	WOB HO	Hole Drag	Up	Down	Pump			trokes/mii @		BOILER		ro P···			l	OFF S	TEAM.									
Ħ	\mp			Torque At Fill On	-				0	0		BollerN	lo Hou	ISKUN	рH	St	ackTemp	SAFETY	G PIPE	Sa	fety Topic			47	MEHL		MAC	P

_											four Sheet Seri	il Number		Vender Sc	oftware Version	n		Year	Month	Day	DAILYO				OP RM		Page	3 of 3
License No		el Name				SUMMA	RY			5	PREC	465_20161	211_1A	Pro	RMS 2	016.6.14.	Unique W	fell Id	016 1	2 11	(2.) Detailed	lk Around Inspe Inspection - We	ekly (Using Che	ack List)	DS R1	4	CAO	
32574 Operator		RCRES H	Z Septim	us H11-34	4-81-18\	W6		Contracto						BC Rig	No	Well Type		-35-081	-18W5	Re-Entry	(3.) H2S Sigr (4.) Well Lice (5.) Flare Line (6.) BOP Drill	ns Posted if Rec ance & Stick Dia les Staked Is Performed	quired Igram Posted		DS RT DS RT		- A	
ARC Reso Operator's AFE		.td.						Contracto 35	ion Drilling	g, div of I	PDC			46	5 Spud D	ate Time	HOI	RIZ	18:00		(7.) Visually I (1.) Rig Site I	Inspected BOPs Health & Safety	s-Flare Lines & I Meeting (one/c	rew/month)	RT	리		
Signature Of Op	erator's Repr	esentative						Sign ature	Of Contractor's R	g Manager					Rig Re	09-Dec-	2010	1	10.00		(2.) GRODO ((3.) Mast Insp (4.) Crown Sa (5.) Motor Kill	pection before F aver Checked	ection Checklist Raising or Lowe	ring	RT			
Code	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25		Kelly Bushing	2036
	Rig Up	Drill Actual	Reaming	Coring	Cond Mi & Circ	ud Trips	Rig Service	Repair Rig	Cut Off Drilg Line	Dev Survey	Wireline Logs	Run Csg & Cement	Wait On Cement	Nipple BOP	Test BOP	Drillstern Test	Plug Back	Squeeze Cement	Fishing	Dir Work	Safety Meeting	Tear Down	Waiting On	Rig Watch	Other	TOTAL	FUEL @ 23049	808:00 HRS
Tour 1		1.00 4.25			5.2	5 2.50)					1.50	5.50													8.00	Time 06:00	-21
Tour 2 Tour 3		•			0.7	-	-														0.50)				4.00	OVERCAS Wind Direction	Wind Strength UP TO 19 KM/H
		5.25			6.0	0 5.25	5					1.50	5.50								0.50)				24.00	Road Condition	
TOU	1	SIC	NATURE OF	DRILLER	DAVE	E LOEV	/EN																	START		0:00	END TIME	8:00
BITS		4	DR					RECORD	ype Water	* 01 🗖			Depth	Deviatio	an D	lirection	Туре	TIMEL	.OG To Elaps	ed Code			Details	Of Operati	ions In Se	quance & Re	narks	
Bit N	Size	1 279		279MI	M BIT	279 1 0	.27		Other						-		"		10	oouc			Details	or operation		iquance a ric	hanko	
IADO	_		1	8" MUD N		204 1 9	.04 Time .92 Density			-																		
Manufa		SICOT SS5160		NON MAG SLICE	K MONEL	166 71 9	.24 Funnel	Viscosity							_													
Se	rial No	1280	7 1	NON MAG SLICI	K MONEL	166 71 9	.39 Locatio	n Of Sample				SOLIDS CO																
		.3 14.3 14.3 14.3 14.3 14.3 14.3 14.3 14		6.5" HYD/ME		157 58 5 165 60 s						Equipment Name	Hours Run	Inta Dens		Over Flow Density	Under Flow Density											
Depth C		.3 14.3 14		X/O S		135 58 0		ation						+	-	_												
Depth Total Drill		0.00	<u> </u>				Pump #		ner Size SPI	Pressure	Hrs Run		-		+					+								
Total Drill Hrs Run		110.0	Ĕ			+++			-+			MUD MAT	RIALS AD			America		H	—	+								
Cumulative H	_	1.00	1	Drill Pipe		Stands 27.		++	+	-			Product			Amount	Туре	E		H								
Entr		9-Dec-2	U16 0	Drill Pipe Kelly Down	•	Singles 0.0		s			•				\pm													
то		ODC Reason Pulled		Total		110.0	00																				PECT FL	OOR
LOC BRG	=	Total Run (m/hr)	10.00	Weight of DC	3	4.0 25.0	0											OBSE	ERVATIO	DN - WC	RKER	WAS ST	ANDING	G IN TH	E DIRE		OF FIRE V	
METRES DR From T	o D-R	-C RPM		Hole Drag		Down	REDU Pump	# Pres		trokes/mi	n Depth	BOILER						BAC		URKER	WAS S	WINGIN	NG A SL	EDGE F		ER, GUT	VORKER	TO STAND
				Torque At	Bottom	Down	_		@ @	@ @	-		lo Hou	rsRun	рH	Sta	ackTemp	SAFETY	ť	So	fety Topic				MEHL		M	ACP
				Fill On					@	@								CEMEN	ITING								_	
TOUI	2	SIC				NEW																		START	nime C	8:00	END TIME	20:00
BITS Bit N	umber	1	No	Comp			MUD F	RECORD Mud T	ype Water	7 oii 🗖		Time	Depth	Deviatio		lirection	Туре	From	To Elaps	ed Code			Details	Of Operati	ions In Se	quance & Re	narks	
	Size	279		279MI 8" MUD N			.27 .04 Time		Other			16:30			.70 .80	293.6 272												
IADC Manufa	_	SICOT		8" CROSSOV		204 58 0	.92 Density							-														
		SS516		NON MAG SLICE		166 71 9 163 1 1	.24 Fluid Lo			_									_									
Sei	Jets 1.4	1280	7 1	NON MAG SLICI	K MONEL	166 71 9	.39 Locatio	n Of Sample				SOLIDS CO	ONTROL															
		.3 14.3 1 .3 14.3 1	1.3 6		OLLAR	165 60	6.76 PVT			_		Equipment Name	Hours Run	Inta Den		Dver Flow Density	Under Flow Density	\square										
Depth C	· · /	464.0	0 1	X/O S	UB	135 58 0	.80 Circul	ation						_														
Depth Total Drill		0.00 464.0	0				Pump #		ner Size SPI	_	Hrs Run																	
Hrs Run	Today	3.25					1		165 70 165 70			MUD MATI	RIALS AD Product			Amount	Туре											
Cumulative H	_	4.25 9-Dec-2		Drill Pipe Drill Pipe		Stands 389. Singles 0.0	53																					
		Gage		Kelly Down	·	-18.9	93	s										Remar	ks									
TO MDC LOC	_	ODC Reason Pulled Total Run (m/hr)		Total Weight of DC		464.0 8.0	_											EQUI	PMENT	TOP DF						IMITS IN: D DRILL A	PECT FL	OOR
BRG METRES DR	LLED			Weight of String		48.0		CED PUMP	SPEED									OBSE	ERVATIO	DN -								
From T	o D-R	-C RPM	WOB	Hole Drag	Up	Down	Pump	# Pres	sure S	trokes/mir @	n Depth	BOILER																
				Torque At Fill On	-		_		@ @	0		Bollern	lo Hou	rskun	рH	Sta	ackTemp			Sa	fety Topic				MEHL		M	ACP
тол	3	sic	NATURE OF	DRILLER	DAVE	E LOEV	/EN																	START	1 11ME 2	0:00	END TIME	24:00
BITS			DR	RILLING A			MUD F	ECORD					SURVEYS					TIME L										
Bit N		1 279	No 1	Comp 279M		279 1 c	.27	Mud 1	ype Water Other	₫ ལ 🗖		Time	Depth	Deviatio	on D	lirection	Туре	From	To Elaps	ed Code			Details	Of Operati	ions In Se	equance & Re	marks	
IADO	Size Code	2/9	1	8" MUD N	NOTOR	204 1 9	.04 Time					-						Þ		+ f								
Manufa	cturer	SICOT	1 1	8" CROSSON	K MONEL	166 71 9		Viscosity		+								\square										
Se	Type S	5S5160 1280		6.5" GA		163 1 1	.68 pH .39 Locatio			+								Þ		+								
	Jets 14		1.3 14.3 1	6.5" HYD/ME	CH JARS	157 58 5		or sample		+		SOLIDS CO	Hours	Inta		Over Flow	Under Flow	F		+								
Depth C		<u>3 14.3 14</u> 464.0		DRILL C		165 60	.80					Name	Run	Den	sity	Density	Density	E		++								
Depth		0.00	Ť			H	Circul Pump#		ner Size SPI	Pressure	Hrs Run																	
Total Drill Hrs Run		464.0					1	PARALLEL	165 70	6000		MUD MATI	RIALS AD	DED						+								
Cumulative H	-	4.25		Drill Pipe		Stands 389.	2 53	PARALLEL	165 70	6000	1.00		Product			Amount	Туре											
Entr		9-Dec-2		Drill Pipe Kelly Down		Singles 0.0	0 Remark	s																				
TI TO	2 4	Gage ODC	0 NO	Total	E	-18.9 464.0	00											Remar FUNC		ROWNS	SAVER I	HIGH/LC	OW TRA	VEL ST	OPS/L	IMITS IN	PECT FL	OOR
	CT S		TD 09.18	Weight of DC		8.0 48.0									\pm			OBSE	PMENT	top df DN - WC	RIVE,DR DRKER \	AWWO WAS ST	RKS, DI	rill Lin G off f	NE ANE RIG FLO	d drill <i>i</i> Oor whi	NCHOR.	ER WAS
METRES DR From T	LLED	-C RPM	L L L	DLE COND	DITION		REDU Pump	# Pres		trokes/mi	n Depth								KING ST STEAM.	RING,	STEAM	IMPAIR	ED VISI	ON FOR	r dril	LER. GO	WORKE	R TO TURN
				Hole Drag Torque At	Up Bottom	Down	_		@	@		BOILER	lo Hou	rsRun	pН	Sta	ackTemp	SAFETY	(100
\square	_			Fill On	Bottom				@	@						_		TRIPPI	NG PIPE	Sa	fety Topic			47	MEHL	-	M	ACP

						ACEA						Tour Sheet Seri			Vender So	tware Version			Year	Mc	nth [Daily CHECKS OP RM
	License No							τ ι					465_20161	212_1A	Prov	RMS 20		Unique V	rel Id		12	12 (1.) Daily Walk Around Inspection (2.) Dataled Inspection - Weekly (Using Check List) (3.) H25 Store Potted If Rearined
	Operator			12 Septim	105 111-34	4-01-1044	0		Contractor Precisi	on Drilling	, div of	PDC			Rig		Well Type			-10445		Entry (5.) Flare Lines Staked DS RT
									Contractor	s Job No						Spud Dat		2016	1	18:0	0	(1.) Rig Site Heath & Safety Meeding (one/crew/month) (2.) CAODC Rig Safety Inspection Checklist (one/rig/month)
			2	3	4	5	6	7	ROD T	OMPKINS		11	12	13	14	15	16	17	18	10	20	(4.) Crown Saver Checked (5.) Motor Kills Checked Killy Bushing Op Fuel
	oodo										Dev											Dir Safety Tear Waiting Rig Other FUEL @ 08:00 HRS
	Tour 1					1.50)	0.25					-								0.	75 0.50 8.00 Tisos 10190
	RS												1.25		4.50						-	0.50 12.00 Current Conditions
	0					1.50)	0.25					6.25		4.50						0.	TE 4 OF A OF
	то	ur 1	SI	GNATURE O	FDRILLER	DAVE	LOEW	EN														START TIME 0:00 END TIME 8:00
				DF				MUD R		ma Matar					_	n Dir	rection	Turne	· · · · ·		need Car	nde Datalle Of Occastions in Semicana & Demotion
	Bit				Comp	-	00 10 14		indu i									.,,	0:00	0:45 0	.75 20	DD HANDLE DIRECTIONAL TOOLS, LAY DOWN MUD MOTOR AND MWD TOOL.
		- H						Density								1			1:30	1:45 0	.25 21	1 SAFETY MEETING HELD PRIOR TO RUNNING CASING, REVIEWED CTA 4-1
	inc.ru	-						Fluid Lo														41.67kg/m LT&C Casing, Land W/ potatoe masher @ 464M Total Length 464.19m
	s	Serial No Jets		-				Location	Of Sample										6:00 6:15	6:15 0 6:30 0	.25 12. .25 21	2A RIG UP CEMENTERS. 11 SAFETY MEETING HELD PRIOR TO CEMENT JOB
		Ē																	6:30	8:00 1	.50 12	LCM-2. Displaced with 14.60m '‡ Fresh H2O.Staged last 4m3. Bump Plug 3500 Kpa ov
										or Size SDM	Broosure	Hen Run										10 min each. 8m '‡ cement returns to surface, no fall back annulus. Plug down @ 07:3
								Fullpa	Type Li	iei 3ize - 3r w	Fiessur	- HIS KUIT	MUD MATE	RIALS AD	DED							
		-			Drill Pipe	Sta	ands	_					DESCO	Product	t	A						
			JRE			Sin	igles	Remarks					ENERCLE	AR 1802				1 EACH		_		
	TI TO MDC		Gage ODC Reason Puled		Total																	
	LOC		Total Run (m/hr)																OBSI	ERVAT	ION - I	WORKER WAS STANDING IN THE DIRECT LINE OF FIRE WHEN
	From	RILLED To D-	R-C RPM	WOB HO		UP Up	Down			sure St			BOILER						BACI	К.		
						-				@	Q			8	3.00	10	Sta	340	SAFET	Y		
	то	ur 2	2 si	GNATURE O	_		NEWT	ON		œ	@		2	8	3.00	10		340	CEMEN	ITING CA	SING	START TIME 8:00 END TIME 20:00
	BITS			DF	RILLING A	SSEMBL	Y	MUD R	ECORD				DEVIATION	N SURVEY	S				TIMEL	.0G		
	Bit	-		No	Comp	onent	OD ID Ler	ngth	Mud T		1 •• 🗖		Time	Depth	Deviatio	n Dir	rection	Туре				2C Pumped 4m'‡ H2O ahead, 28.3T (25.61m'‡) TSC 1700KG 1% CACL2 2% AFA-6 2%
	IAD										\top	_				_						FCP, Floats Held 100L flow back. Pressure test casing 1MPA Low, 10,000Kpa High for
	Manu	Ifacturer						Funnel V								_	_		8:45	9:15 0	.50 12	Hrs.12/12/2016. Annulus static
Am Am<	s							_	Of Sample													A NIPPLE UP BOPS INSTALL HCR LINES, INSTALL CASING BOWL VALVES AND
Buy Day Is Image Is		Jets											Equipment	Hours					14:00	14:15 0	25 21	INSTALL FLOW LINE AND FLOW TEE
								Circula	ition	, , , , , , , , , , , , , , , , , , , ,									14:15	16:00 1	.75 15.	5A PRESSURE TEST MANIFOLD VALVES AND CHOKES, 1400KPA LOW, 21,000KPA HIGH
Bit In The International Processing Process		- ``H						Pump #	Type Lir	er Size SPM	Pressure	e Hrs Run										5A PRESSURE TEST: UPPER AND LOWER PIPERAMS, INSIDE BOP, LOWER KELLY
Number of the state		-											MUD MATE			A	Amount	Туре				CUCK, NCK, KILL LINES 1400KPA LOW. 21,000KPA HIGH.
	En	ntry Date			Drill Pipe			Remarks														
Non- Ward Ward <th< td=""><td></td><td>STRUCT</td><td>Gage</td><td></td><td>Kelly Down Total</td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td>Remar</td><td></td><td>CROW</td><td>VNSAVER HIGH/LOW TRAVEL STOPS/LIMITS, INSPECT FLARE AND</td></th<>		STRUCT	Gage		Kelly Down Total			-								-			Remar		CROW	VNSAVER HIGH/LOW TRAVEL STOPS/LIMITS, INSPECT FLARE AND
Number of the last of l	LOC		Rasson Pulled Total Run (m/hr)					_											DEG/ AND	ASSER ALL W	LINES ELL C	S,FUNCTION CHOKES AND FLARE STACK IGNITOR. INSPECT BOP CONTROL EQUIPMENT INSPECT SLIPS,TONGS B&V, DOG COLLARS
Image: biological bio	METRES D	RILLED To D-	R-C RPM	WOB HO		ITION			_		rokes/mi	n Depth							TEST	HAZA	RD ID	: ICE FORMING AROUND RIG FROM SURFACE HOLE PLUS COLD
TOC 3 BONAUTOR CODUCE DATE CODUCT Description Desc	Ħ				Torque At	_	Down	E		@	@		BoilerN				Sta				DIEAN	
Bit Number DRULING ASSEMULY MUD RECORD Deviation Surgery Type Type </td <td></td> <td></td> <td>3</td> <td></td> <td>_</td> <td></td> <td>LOFW</td> <td>'EN</td> <td></td> <td>@</td> <td>@</td> <td></td> <td>2</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NIPPLE</td> <td>UP /PRE</td> <td>SSURE T</td> <td>TEST</td>			3		_		LOFW	'EN		@	@		2						NIPPLE	UP /PRE	SSURE T	TEST
Bit Nember Bit Nember Bis Name Bis							-		ECORD				DEVIATIO	N SURVEY	s				TIME	.OG		20.00 20.00 27.00
Siss 20 Image: Control of the control o		-		No	_			ngth			1 oii 🗖					n Dir	rection	Туре	From	To Ela		
Markaterier By/see Seriel No: Seriel No: Se	IAD	-	200	┯╞						Other						1						IDS AND OBSERVATIONS WITH BOTH CREWS. 54 PRESSURE TEST: UPPER AND LOWER PIPERAMS, INSIDE BOP, LOWER KELLY
Mark	Manu							Funnel V							-	+	=		22.45	22:30	25 45	LOW, 10,500KPA HIGH
i 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9	s	- H					$+\top$	pH			+											REMAINING AFTER 4 FUNCTIONS 10,200KPA, RECHARGE TIME 2MIN 19SECS PRECHARGE PRESSURE 7100 KPA
Arg / J / J / J Arg / J / J Arg / J / J Arg / J Arg / J Arg / J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J J							++	Depth					Equipment	Hours	Intak	ity C	ver Flow Density		22:45	23:15 0	.50 25	54 RIG OUT PRESSURE TESTER 55 INSTALL WEAR BUSHING
Original Degin Ing 464.00 Image: Tope All Deline (m) Image: Tope All Deline (m)<	Depth	-					\mp	Circula	ition					, curl					23:15	24:00 0	.75 25	CHANGE OUT SAVER SUB ON TOP DRIVE
Hr Run Tody Dumulative Hrs Run Entry Dum Image: Compute Stress of Computer Stress			464.0				\pm			er Size SPM	Pressure	e Hrs Run		L	1							
Construction Output Destruction <	Hrs Ru	in Today						_	\vdash	+		+	MUD MATE			A	Amount	Туре				
VUIL/CESTIGUOUSE Auty Comment		-											ENERHIB									
Normalization Norm			Gage		Kelly Down	-		Kemarks								\pm			Remar	ks		
Instruction Procession Proces	LOC		Rasson Pulled Total Run (mhr)		Weight of DC											+			DEG	ASSER	LINES	S,FUNCTION CHOKES AND FLARE STACK IGNITOR. INSPECT BOP
Prom 15 D-RC Prim WUB Hole Dag Up Down Pump # Pressure Strokes/min Down Boil En GOIL EF GOIL	METRES D	RILLED	P.C DOM:	WOR												+			TOP	DRIVE,	DRA	WWORKS, FUNCTION ALL BOP COMPONENTS PRIOR TO PRESSURE
Image: Notest and Section 1 Image: Notest and Section 1 <t< td=""><td>From</td><td>10 D-</td><td>NPC RPM</td><td>WOB</td><td>Hole Drag</td><td>Up</td><td>Down</td><td>Pump</td><td># Pres</td><td>@</td><td>@</td><td></td><td></td><td></td><td></td><td></td><td>Sta</td><td></td><td>GOT</td><td>VERY</td><td></td><td></td></t<>	From	10 D-	NPC RPM	WOB	Hole Drag	Up	Down	Pump	# Pres	@	@						Sta		GOT	VERY		
													1	4	4.00	10		340			ING BO	Safety Topic MEHL MACP P COMPONENTS

					AGE	SUMMA	DV			т	our Sheet Seria	Number		Vender S	oftware Version			Yea	ır	Month	Day	DAILY CH	HECKS			OP RM		<u> </u>	_	\neg
License No 32574		Well Name ARCRES H					K I			s	PREC4	65_20161	213_1A	Pic	rv.	Loc Type	Unique 1	Vell 1d 9-35-08	2016	12	13	(2.) Detailed In (3.) H2S Signs	s Posted if Reg	ekly (Using Che uired	eck List)	DS RT DS RT DS RT		CAO	DC))
Operator ARC Res			i oopaan					Contractor Precis	on Drilling,	div of F	DC			Rig 46	No	Well Type		RIZ			Re-Entry	(5.) Flare Lines (6.) BOP Drills	Performed	Flare Lines & D	Degasser Lines	DS RT DS RT				
Operator's AFE		nresentative						Contractor	a Job No M Contractor's Rig	Mananer					Spud Da	te Time 09-Dec-	2016	1	18	:00		(1) Rin Site H	lealth & Safety I	Meeting (one/cr action Checklist aising or Lower	rew(month)	1) RT				
DOUG S Code	HEA	2	3	4	5	6	7		OMPKINS 9	10	11	12	13	14	15	16	17	18	1	•	20	(4.) Crown Sav (5.) Motor Kills 21	ver Checked	23	24	RT 25		Kelly Bushing	Op Fuel 2933	
	Rig Up	Drill Actual	Reaming	Coring	Cond Mu & Circ		Rig Service	Repair Rig	Cut Off Drilg Line	Dev Survey	Wireline Logs	Run Csg & Cement	Wait On Cement	Nipple BOP	Test BOP	Drillstem Test	Plug Back	Squeez			Dir Work	Safety Meeting	Tear Down	Waiting On	Rig Watch	Other	TOTAL	FUEL @	2933 08:00 H	RS
Tour 1		2.25				1.75	-														1.50					1.50	8.00	42552 Time 06:00	10190 Temp -15	-
Se Tour 2		7.75			3.5	-	0.25												-	+		0.50				+	12.00 4.00	OVERCA: Wind Direction	ons ST Wind Streng	
Tour 3 TOTAL		13.00				0 1.75															1.50					1.50	24.00	Road Condition	UP TO 1	<u>/ KM/H</u>
тои	ur 1	SI	GNATURE O	FDRILLER	DAVE	LOEV	/EN																		STAR	TTIME 0	:00	END TIME	8:00	
BITS			D				MUD R	ECORD Mud T	rpe Water 🔽			DEVIATION Time	Depth	Deviati	on Di	irection	Туре	TIME		Flansed	Code			Details	Of Operat	ions In Sea	uance & Re	marks		
Bit M	Number Size	2 200	1	200MI	M BIT	200 1 0			Other						-	_	,, ,	0:00	0:15 1:45	0.25 1.50	7 25		OUT SAVE	/ICE TOP ER SUB O	DRIVE	RIVE, RE-	TIE WIRE	ALL OVER I		
IAD Manuf	C Code	BAKER HUG		6.5" MOTOR	K MONEL	167 1 8	.34 Density	P14	03:15 1160 30						+	_		1:45				SAFETY MI REVIEWED PICK UP 20	CTA 2-5					TRIPPING I	N THE HO	LE.
	Туре	T507.	X 2	6.5" GA		163 1 1 166 71 1	.68 Fluid Lo		30 10.5									3:30	5:15	1.75	6A	TRIP IN HO	DLE					UP AND WE	L SECUR	ED
Se	erial No Jets 7	71611		6.5" HYD/ME		157 58 5 165 60	.30 Location 6.77 Depth	Of Sample	TNK 2			COLIDS CO	ONTROL	Inta	**	iver Flow	Under Flow	5:30	7:15	1.75	2C	IN 3MIN 10 DRILL OUT	SECS.OP	EN HCR	2 SEC CL DAT COL	OSE ANN	ULAR 18			
		7.9 7.9 7		X/O S 4.5" H		135 58 0	.80 PVT					Name	Run	Den		Density	Density		7:45 8:00		21	200MM HO CREW CHA REPRESEN	ANGE HA	NDOVER	SAFETY	MEETING	WITH RIC	G MANAGER	/ARC	
Depth Depti	-	464.0					Pump #		er Size SPM	Pressure	Hrs Run													JONEINO						
Total Dril Hrs Run	-	34.00					1	SINGLE 1	27 105	5000		MUD MATE	RIALS AD	DED																
Cumulative H	Hrs Run	0.50	<u> </u>	Drill Pipe		Stands 0.0		\vdash	_	-		CAUSTIC	Product	_		Amount	Type													
Ent CUTTING S		12-Dec-2	016 0	Drill Pipe Kelly Down	2	Bingles 0.0		3		1		LIME			+		4 BAGS													
TO MDC		ODC Reason Pulled		Total Weight of DC		498.9	97								_			FUN DEG		I CRO	OWN	SAVER H	IIGH/LC	W TRA	VEL ST	TOPS/LI	MITS. IN CK IGNI	SPECT FI	ARE AN	1D IP
LOC BRG MIETRIES DE	PILLED	Total Ran (mhr)	58.00	Weight of String	9		REDU	CED PUMP	SPEED									AND TOP	ALL DRIV	NELL E, DR	L CÓ RAWI	NTROL E NORKS, I	QUIPM	ENT IN	SPECT	SLIPS,1 COMPO	IONGS E	3&V, DOG PRIOR TO	COLLA PRESS	RS URE
From	To D	R-C RPM		Hole Drag		Down	Pump 1		sure Str	okes/min 79 @	Depth 464.00	BOILER						GOT	VER			VORKER	LEFT S	STEAM	HOSE I	N BIRD	BATH U	NATTEN	DED, WA	TER
				Torque At Fill On	Bottom				8	0		BoilerN 1 2		rsRun 3.00 3.00	pH 10 10	Sta	340 340	HAND	IY LING BH	A	S	afety Topic				MEHL		М	ACP	
тои	JR 2	2 si	GNATURE O	FDRILLER	RYAN	I NEW	ON																		STAR	8	:00	END TIME	20:00	
BITS			Di				MUD R	ECORD	rpe Water 🔽			DEVIATIO	Depth	Deviati	on Di	irection	Туре	TIME	_	Elapsed	Code			Details	Of Operat	ions In Sea	uance & Re	marks		
Bit M	Size	2 200	1	200MI		200 1 0			Other		-		-		+	_	,, ,	8:00	8:15	0.25	21A	ROUTE CO	MPLETE	DWN DRIL D 3:45 SE	LL WITH (CREW WE		RE 40 SEC S	EARCH	
IAD Manuf	C Code	BAKER HUG		6.5" MOTOR	K MONEL	167 1 8	.34 Density		08:00 1150	14:00)				_				16:00 19:30	7.75 3.50	5	DRILL 2001 ACCUMUL	ATIVE TI				E CONNE	CTIONS AND	TOOLFA	CE
	Туре	T507.	X 2	6.5" GA	K MONEL	166 71	.68 Fluid Lo 8.63 pH	liscosity ss	30 10	30									19:45 20:00		7	RIG SERVI	CE FUNC					LOSE 3 MANAGER	/ARC	
Se	erial No Jets 7	71611	<u> </u>	6.5" HYD/ME	COLLAR	157 58 5 165 60 s	6.77 Depth	Of Sample	SHAKER 500.00	SHA1 925.0		COLIDS CO	ONTROL Hours	Inta	ite O	ver Flow	Under Flow					REPRESEN	NTATIVES	S/CREWS						
Depth		7.9 7.9 7		X/O S 4.5" H		135 58 0	.80 PVT		70	68		Name	Run	Den		Density	Density													
Depth		464.0					Circula		er Size SPM	Pressure	Hrs Run	Centrifuge # Centrifuge #			1160 1160	1150 1150	1780 1820													
Total Dril Hrs Run		769.0	-				1		27 95	17000	12.00	MUD MATE	RIALS AD	DED																
Cumulative H	- H	8.25	23	Drill Pipe	:	Stands 671.	92	PARALLEL	27 95	17000		ENERPAC					Type 1 SXS													
Ent CUTTING S		12-Dec-2	2016 1	Drill Pipe Kelly Down	1	Singles 9.7 4.3		5				ENERPAC	B 0		+	2	1 SXS 4 SXS 8 SXS													_
TO MDC		ODC Reason Pulled		Total Weight of DC		1233.0 10.0	-					SULPHAN			+	1:												SPECT FI		
LOC BRG MET(RESIDE	RILLED		93.21	Weight of String		68.0		ED PUMP	SPEED									TOP	DRIV	E, DR	RAW	NORKS,	DRILL I	LINE AN	ND DRIL	L LINÉ	ANCHO			
From 123	To D- 33.00 DI	RILL 70	<u>WOB</u> 11	Hole Drag		1 Down	1 1	# Pres 4720		okes/min 95 @	600.00	BOILER		ro Bum		Ste	okTomn	PLA	CED C									NERE IMP		
				Torque At Fill On	-	750	00 <u>2</u> 1	4800 5000		15 @	633.00	Bollern 1 2		2.00 2.00	pH 10 10	3(8	ackTemp 340 340	SAFET MAN D	DOWN DI	RILL	S	afety Topic			69	MEHL	31		ACP	
тои	JR 3	3 si				LOEV	/EN																		STAR	TTIME 20	00:00	END TIME	24:00	
BITS Bit N	Number	2	D.	Comp		OD ID L	ingth	ECORD Mud T	rpe Water 🔽	°0i∏		Time	Depth	Deviati	_	irection	Туре	TIME From	To		Code						uance & Re			
	Size	200		200MI		200 1 0 167 1 8			Other 21:45	23:45		21:15	1233.1 1262.4	1 0		85.1 244.7				0.25		CREW CHA ID'S AND C DRILL 2001	DBSERVA	TIONS W	/ІТН ВОТ	H CREWS	i.	SOING TASI	(S, HAZAF	.D
IAD Manuf	IC Code facturer	BAKER HUG		0.5 100101	K MONEL	166 71 9	.34 Density	liscosity	21:45 1180 30	23:45 1180 30		22:45	1291.6 1320.7	7 0	.40 .80	226.2 215.1		23:15	23:45	0.50	5 7	ACCUMUL	ATED TIN CE, GREA	IE WORK	ING PIPE	AND CO	NNECTIO	NS TION LOWE	R PIPERA	MS
	Type erial No	T507	X [2	NON MAG SLICI	K MONEL	166 71 1	Fluid Lo 8.63 pH		9.5	9.5		23:45	1349.9	4 0	.50	232						(6SECS TO	CLOSE)							
Se	Jets 7	7.9 7.9 7	.9 _{7.9} 6	6.5" HYD/ME	OLLAR		6.77 Depth	Of Sample	SHAKERS 1296.00 60	SHAI 1356		COLIDS CO	Hours	Inta		Iver Flow	Under Flow	⊨		_										
Depth		7.9 7.9 7 1375.0		X/O S 4.5" H		135 58 0 114 73 4	.80	tion		04		Name Centrifuge #	Run 1 4.		sity 1 1180	Density 1170	Density 1640													
Depti	· -	464.0	0			\square	Pump #		er Size SPM	Pressure	Hrs Run	Centrifuge #	2 4.	00	1180	1170	1620													
Total Dril Hrs Run		911.0 3.00				\square	1	continue	27 69 27 69	-	4.00 4.00	MUD MATE	RIALS AD Product			Amount	Туре	E												
Cumulative H	-	11.2 12-Dec-2	Z	Drill Pipe Drill Pipe		Stands 847. Singles 0.0	14	CONDINED	21 09	14000		ENERPAC	;		+		1 EACH			_										
		Gage		Kelly Down		-19.0)8					CAUSTIC					1 EACH 4 EACH	Rema	irks											
TO MDC LOC		ODC Reason Pulled Total Run (m/m)	30.98	Total Weight of DC		1375.0 10.0	00				Ŀ		AR 1802					DEG	ASSE	r Lin	NES,I	FUNCTIO	N CHO	KES AN	ID FLAI	RE STA	CK IGNI	SPECT FI	ECT BO	P
BRG METRES DR	RILLED			Weight of String		70.0	REDU	CED PUMP				CHEMCLE	AN		+		1 EACH	TOP	DRIV	E, DR	RAW	NORKS,	DRILL L	INE AN	ND DRIL	L LINÉ	ANCHO	3&V, DOG RS /E THAT 1		ĸσ
1233.00 13	75.00 DI	R-C RPM RILL 70	12	Hole Drag Torque At	Up	1 Down 550	1 Pump 1 1 00 1	3960	@	okes/min	1276.00	BOILER BoilerN		rsRun	pH		ackTemp	THR	EADS		RE A	LL ICED U				HE RIG		, THAWEI	OFF	
				Fill On	-			3920	@	'9 @	1276.00	1 2	4	l.00 l.00	10 10		340 340		ICK CON	ECTIO	S	afety Topic			80	MEHL	35		ACP	

					105-0	UMMAR	v			То	our Sheet Serial			Vender S	oftware Version			Year	Мо	nth Da	PY DAILY CHECKS OP RM
License No 32574		Well Name		nus H11-34						Si	PREC4	65_20161	214_1A	Pro	rv.	Loc Type	Unique W	20 Vel 1d 9-35-081		12 1	14 (1.) Daily Waik Around Inspection (2.) Detailed Inspection - Weakly (Using Check Link) (3.) HCS Sign Fraded I Required
Operator ARC Res	ources		in ooptiin					Contractor Precis	ion Drilling,	div of P	DC			Rig 46	No	Well Type	но		10110	Re-Entr	
Operator's AFE		and the second se						Contractor	's Job No Of Contractor's Rig	Manager					Spud Da	te Time 09-Dec-2	2016	1	18:0)	(1) Rig Site Health & Safety Meeting (one/crew/month) (2) CADOC Rig Safety Inspection Checking (one/ing/month) (3) Matt Incortice hefters Relation of Levering
DOUG S	HEA 1	2	3	4	5	6	7		OMPKINS 9	10	11	12	13	14	15	16	17	18	19	20	(4.) Crown Saver Checked (5.) Motor Kills Checked (6.) Motor Kills Checked (6.) Motor Kills Checked (6.) Comparison of the second secon
Coue	Rig Up	Drill Actual	Reaming	Coring	Cond Mud & Circ	Trips	Rig Service	Repair Rig	Cut Off Drilg Line	Dev Survey	Wireline Logs	Run Csg & Cement	Wait On Cement	Nipple	Test BOP	Drillstem Test	Plug Back	Squeeze		Dir Work	3200
Tour 1		7.00			0.50)	0.25	-			-										0.25 8.00 66:00 -21
S Tour 2		10.25	-		1.25		0.25													-	
TOTAL		19.25	-		2.75																0.50 4.00 Wind Discussion Wed Strength 1.00 24.00 E Raik
тоц	JR	1 s	GNATURE O	FDRILLER	DAVE	LOEW	EN														START TIME 0:00 END TIME 8:00
BITS			D	RILLING A	SSEMBL	.Y	MUD RE	ECORD				DEVIATION	SURVEY	S				TIME L	_OG		
Bit	-	2	N	Compo		OD ID Leng	jth 7	Mud T	ype Water			тіте 01:15	Depth 1379.0	Deviati 8 1	on Di .00	rection 65.7	Туре	From 0:00	0:15 0.		RIG SERVICE, FUNCTION ANNULAR (19SECS TO CLOSE).
IAD	Size C Code	200		6.5" MOTOR		167 1 8.9	3 Time		03:00	05:15			1408.3		.10	63.5 83.1		7:15	7:45 0.	50 5	DRILL 200MM VERTICAL SECTION FROM 1375M - 1508M ACCUMULATED TIME WORKING PIPE AND CONNECTIONS
Manuf	-	BAKER HU	v –	6.5" GAI	P SUB	166 71 9.3 163 1 1.6			1180 30	1175 30			1466.8		.90	73.7		7:45	8:00 0.	25 21	SAFETY MEETING
S	Type erial No	T507 71611		2 NON MAG SLICH		166 71 18.1 157 58 5.3	53 pH	of Sample	10.5 SHAKERS	10.5 SHAI	(FRS									_	
	H	7.9 7.9 7		DRILL C	OLLAR	165 60 56.	77 Depth		1436.00	1479.		Equipment	Hours Run	Inta		ver Flow Density	Under Flow Density				
Depth		7.9 7.9 7		1 X/O S 3 4.5" H		135 58 0.8 114 73 445	Circula	tion				Centrifuge #	1 8.	00	1180	1170	1640				
	h In (m)	464.0		-			Pump #		ner Size SPM	Pressure	Hrs Run	Centrifuge #	2 8.	.00	1180	1170	1640				
Total Dri Hrs Rur	-	1044.	_	-			1		27 78			MUD MATE	RIALS AD								
Cumulative H	-	18.2	5 3:	3 Drill Pipe		tands 964.1		PARALLEL	27 78	14000			Product	1	- '		Type EACH				
Ent CUTTING S		12-Dec-2	2016 0	Drill Pipe Kelly Down	Sir	-3.0	Remains			-	0	CAUSTIC CAL CARI CAL CARI					EACH EACH EACH				
TO		ODC Resson Pulled		Total Weight of DC		1508.00 8.00	-				ľ		5 325				EACH				NSAVER HIGH/LOW TRAVEL STOPS/LIMITS. INSPECT FLARE AND FUNCTION CHOKES AND FLARE STACK IGNITOR. INSPECT BOP
LOC BRG		Total Run (m/hr)	57.21	Weight of String		74.00									-			AND	ALL W	ELL CO	ONTROL EQUIPMENT INSPECT SLIPS, TONGS B&V, DOG COLLARS WWORKS, DRILL LINE AND DRILL LINE ANCHORS
From 1375.00 15	To D	RILL 70		OLE COND		1 Down	Pump #		sure Str	okes/min	Depth	BOILER						HAZ/	ARD ID:	STAN	TO PIPE PRESSURE GAUGE WAS FROZEN WITH SURFACE MUD READING. UNTHAWED GAUGE.
				Torque At	_	6000	$\frac{1}{2}$	3900 3900	@ 7	78 @ 78 @	1511.00	- ·	o Hou	IrsRun 3.00	<u>рН</u> 10	Sta	ckTemp 340	SAFET	Y		Safety Topic MEHL MACP
тоц	JR 2	2 s	GNATURE O	Fill On		NEWT			œ	0		2	8	3.00	10		340	LOCKO	DUTS		75 3528 STARTITUME 8:00 END TIME 20:00
BITS				RILLING A			MUD RE	ECORD					SURVEYS	s				TIMEL	00		
Bit	Number	2	N	Comp	onent	OD ID Leng	ph		ype Water	⁰¹	-	Time	Depth 1496.0	Deviati	on Di .70	rection 81.6	Type	From	To Ela		e Details Of Operations In Sequance & Remarks RIG SERVICE FUNCTION UPPER PIPE RAMS 7 SECS TO CLOSE
IAD	Size IC Code	200	ΞĒ	200MI		200 1 0.2 167 1 8.9			Other 09:00	14:00	_	11:30	1525.4	7 0	.50	63			18:30 10	.25 2	DRILL 200MM HOLE FROM 1508M TO 1662M ACCUMULATIVE TIME TO WORK STRING MAKE CONNECTIONS AND TOOLFACE
Manuf	- H	BAKER HU	GHES /	1 NON MAG SLICH		166 71 9.3 163 1 1.6	Engeneral M	iscosity	1155 30	1155 30		15:00	1554.5 1583.5	7 1	.60 .90	52.1 54		19:45	20:00 0.		ORIENTATION CREW CHANGE HANDOVER SAFETY MEETING WITH RIG MANAGER/ARC
9	Type erial No	T507 71611	X	2 NON MAG SLICE	K MONEL	166 71 18. 157 58 5.3			10	9.5		17:30	1612.6	0 1	.20	70.1					REPRESENTATIVES/CREWS
	- H	7.9 7.9 7	7.9 _{7.9} (Contraction Contractico Contra	OLLAR	165 60 56.	Depth	Of Sample	SHAKERS 1520.00	SHAI 1610.		OLIDS CO	Hours	Inta		ver Flow	Under Flow				
Depth	E E	7.9 7.9 7		1 X/O S 3 4.5" H		135 58 0.8 114 73 445	22					Name Centrifuge #	Run 1 12.	.00	sity 1 1150	Density 1140	Density 1680			_	
	th In (m)	464.0	-				Circula Pump#		ner Size SPM	Pressure	Hrs Run	Centrifuge #	2 12.	.00	1150	1140	1680				
Total Dri Hrs Rur		1191. 10.2					1		27 78	12500	12.00	MUD MATE	RIALS AD	DED							
Cumulative H		28.5		B Drill Pipe	St	tands 1109.7		PARALLEL 1	27 78	12500		ENERCLE		t			Type 2 SXS				
Ent CUTTING S		12-Dec-2	2016 1	Drill Pipe Kelly Down	Sir	ngles 9.73 -4.42						CAL CARI	3 325			17	2 SXS				
TI TO MDC		Gage ODC Resson Pulled		Total		1662.0	D					ENERPAC				1					NSAVER HIGH/LOW TRAVEL STOPS/LIMITS. INSPECT FLARE AND
LOC BRG		Total Run (m/hr)	41.79	Weight of DC Weight of String	•	10.00 78.00												AND	ALL W	ELL CO	6, FUNCTION CHOKES AND FLARE STACK IGNITOR. INSPECT BOP ONTROL EQUIPMENT INSPECT SLIPS, TONGS B&V, DOG COLLARS
From	To D	RILL 70	WOB H	OLE COND		1 Down	Pump #		sure Str	okes/min	Depth	BOILER						HAZ/	ARD ID:	NOTIC	VWORKS, DRILL LINE AND DRILL LINE ANCHORS CED 100 LB PROPANS BOTTLE LYING ON SIDE IN WHEELBARROW
			Ê	Torque At	Bottom	720	- 1	3860 3900	@ 7	78 @ 78 @	1598.00	BoilerN 1		rsRun 2.00	pH 10.5	Sta	ckTemp 340	SAFET	Y		ED TO TIGER TORCH/REMOVED BOTTLE AND STOOD UP WHILE IN Safety Topic MEHL MACP
TOL		3 si	GNATURE	Fill On		LOEW	EN		œ	0		2		2.00	10.5		340	CASING	G PROTEC		76 3528 START TIME 20:00 END TIME 24:00
BITS		- 3		RILLING A			MUD RE	ECORD				DEVIATION	SURVEYS	s				TIMEL	06		
	Number	2	N	Comp	onent	OD ID Leng	pth		ype Water			Time	Depth	Deviati	on Di	rection	Type	From	To Ela	osed Code	e Details Of Operations In Sequance & Remarks CREW CHANGE HAND OVER MEETING. DISCUSSED HAZARD IDS AND
	Size C Code	200	-t	1 200MI	7/8 5 STG	200 1 0.2 167 1 8.9	3 Time		Other 22:15									20:00			OBSERVATIONS WITH BOTH CREWS. DRILL 200MM VERTICAL SECTION FROM 1662M - 1705M
Manut	-	BAKER HU		1 NON MAG SLICK	K MONEL	166 71 9.3	4 Density	iscosity	1150 30										22:30 0.	25 5	ACCUMULATED TIME WORKING PIPE AND CONNECTIONS CIRCULATE HOLE CLEAN PRIOR TO TRIP OUT OF HOLE. PUMP GROUT SWEEP.
	Type erial No	T507 71611	X	NON MAG SLICK	K MONEL	166 71 18.	Fluid Los 53 pH		9					+	+	-		23:15	23:30 0.	25 7	PUMP 2M3 WEIGHTED PILL PRIOR TO TRIP OUT OF HOLE. BLOW DOWN TOP DRI RIG SERVICE, GREASE AND SERVICE TOP DRIVE. FUNCTION LOWER PIPERAMS
S	-	71611	7.9 _{7.9} (OLLAR	157 58 5.3 165 60 56.3	77 Depth	Of Sample	SHAKER 1698.00	\pm		OLIDS CO	NTROL	Inta	ike O	ver Flow	Under Flow	23:30	23:45 0.	25 21	(65ECS TO CLOSE). SAFETY MEETING HELD PRIOR TO TRIPPING OUT OF HOLE. REVIEWED CTA SECTION 2-4
Depth	- F	7.9 7.9 7 1705.0		1 X/O S 3 4.5" H		135 58 0.8 114 73 445			41.69			Name Centrifuge #	Run	Den		Density 1140	Density 1680	23:45	24:00 0.	25 6B	
Depti		464.0		<u> </u>		- 45	Pump #		ner Size SPM	Pressure	Hrs Run	Centrifuge #			1150	1140	1680				
Total Dri Hrs Rur		1241.					1	PARALLEL	27 78	14500	0.00	NUD MATE	RIALS AD	DED							
Cumulative F	- i-	30.5		Drill Pipe	St	tands 1167.8	7 2	PARALLEL	27 78	14500	1	ENERHIB	Product		,	Amount 1				+	
Ent		12-Dec-2 ਪਸ਼=	2016 0	Drill Pipe Kelly Down	Sir	•••• 0.00 -9.8	Remarks			1		CALCIUM	CHLORID	E		10	BAGS			+	
TI TO MDC		Gage ODC Respon Pulled		Total		1705.0	D				E										NSAVER HIGH/LOW TRAVEL STOPS/LIMITS. INSPECT FLARE AND
LOC BRG		Total Run (m/hr)	40.69	Weight of DC Weight of String	p	10.00 69.00									+			AND	ALL W	ELL CO	6, FUNCTION CHOKES AND FLARE STACK IGNITOR. INSPECT BOP ONTROL EQUIPMENT INSPECT SLIPS, TONGS B&V, DOG COLLARS
METRES DA	RILLED To D	RILL 70	WOB H				REDUC Rump f		sure Str	okes/min		RON FR						NOTI	CED O	N CAM	VWORKS, DRILL LINE AND DRILL LINE ANCHORS. HAZARD ID: ILOCK COMING OFF OF INVERT TANK THAT THE LATCHES DID NO ADV LOCK DUT THE ADDINING AND ACK WHAT THE DESCIDE
1662.00 17	D	NILL 70	C.#1	Hole Drag Torque At		1 Down 7500	1 1	3850 3810	@ 7	78 @ 78 @		BOILER BoilerN		IrsRun 4.00	<u>рН</u> 10	Sta	ckTemp 340	SAFET			ARY LOCK. PUT ZIP TIES AROUND CAMLOCK WINGS TO ENSURE Safety Topic MEHL MACP
\square				Fill On	Bottom				@	@		2		4.00 4.00	10		340	TRIPPI	NG PIPE		Safety Topic MEHL MACP 80 3528

_										То	ur Sheet Seria	Number		Vender S	oftware Version	1		Year	r	Month	Day	DAILY CHECKS			OP RN		Page	1 of 2
License No		Well Name				UMMAF	łΥ			Su	afface Location	65_20161	1215_1A	Pic	2V	016.6.14.3	Unique \	Vell Id	016	12	15	(1.) Daily Walk Around Insp (2.) Detailed Inspection - W (3.) H2S Signs Posted if Re	eekly (Using Cha	ick List)	DS RT	1	CAG	DC
32574 Operator ARC Reso		ARCRES H	Z Septim	us H11-34	4-81-18W	6		Contractor	ion Drilling, d		1-34-81-1	8 W6		BC Rig 46	j No	DLS Well Type		9-35-08 [.] RIZ	1-18W5	Re	e-Entry	(4.) Well Licence & Stick Di (5.) Flare Lines Staked (6.) BOP Drills Performed	agram Posted		DS RT	`		
Operator's AFE		Liu.						Contractor 35	's Job No					140	Spud D	ate Time 09-Dec-			18	3:00		(7.) Visually Inspected BOP (1.) Rig Site Health & Safety (2.) CAODC Rig Safety Insp	/ Meeting (one/c xection Checklist	rew/month) (one/rig/month)	RT			
Signature Of Op	erator's Rep	presentative							Of Contractor's Rig M	anager					Rig Ra	ease Date Time		1				(3.) Mast Inspection before (4.) Crown Saver Checked (5.) Motor Kills Checked	Raising or Lowe	ring	RT			
Code	Rig Up	2 Drill	3 Reaming	4 Coring	5 Cond Mud & Circ	6 Trips	Rig Service	8 Repair Rig		Dev Survey	11 Wireline Logs	12 Run Csg & Cement	13 Wait On Cement	Nipple BOP	Test BOP	Drillstem Test	Plug Back	18 Squeeze	Fish		Dir Work	21 22 Safety Tear Meeting Down	28 Waiting On	24 Rig Watch	25 Other		FUEL (4964 08:00 HRS
Tour 1	Up	Actual	-	-	& Circ	4.50	Service	Rig	Drilg Line 3	Survey	Logs	& Cement	Cement	BOP	BOP	Test	Back	Cement			Work 3.00		On	Watch		TOTAL 8.00	Rig 31382 Time	Boiler 10190 Temp
Tour 2		5.50			1.75	-			0.75											C	0.50	0.50				12.00	06:00	-21 ST
		3.25 8.75			0.25	7.25	0.25		0.75												3.50	0.25				4.00 24.00	Wind Direction	UP TO 19 KM/H
тол	. 1		NATURE OF			LOEW	-		0.75												5.50	1.25		STARI	тима О	24.00		8:00
BITS								ECORD					N SURVEY	s				TIME	106									0.00
Bit N	umber	3	No	Compc 200MN		OD ID Len 200 1 0.2	gth		ype Water	01	-	Time	Depth	Deviati	ion D	irection	Туре	From 0:00		Elapsed C 3.00		RIP OUT OF HOLE				quance & R 49M, O.O.I		VOL
IADO	Size Code	200	1	6.5" MOTOR	7/8 5 STG	167 1 8.6			Uther												C. (6	AL.=9.21M3 MEA	S.=12.10№).	13 DIFF.=2	2.89M3. F	UNCTION	BLINDRAM	
Manufa		IALLIBUR	TON 1	6.5" NON MA		162 72 1.5 163 72 9.2	Funnel V														20D CI	AFETY MEETING HANGE OUT VER	TICAL BH	A FOR 20	DOMM BU			STALL AND
Sei		MMD64 128600		6.5" GAF	P SUB	163 1 1.6	Fluid Lo pH												7:45 8:00		6A TF	EST M.W.D TOOL RIP IN HOLE FRO REW CHANGE HA	M OM TO 4	173M FLO	W CHEC			P/ARC
		.9 7.9 7	.9 _{7.9} 3	6.5" NON MAG F	LEX MONEL	163 72 27.	33 Depth	Of Sample				Equipment	Hours	Inta		Over Flow	Under Flow	/:45	0:00	0.25		EPRESENTATIVE					G MANAGE	VARC
Depth C		.9 7.9		6.5" HYD/MEG		157 58 5.3	30					Name	Run	Den	isity	Density	Density	-			-							
Depth		1705.0	00 48	4.5" H	WDP	114 73 🗤	Circula Pump #		ner Size SPM	Pressure	Hrs Run																	
Total Drill Hrs Run												MUD MATE	ERIALS AD	DED														
Cumulative H	- H	0.00	41	Drill Pipe	Sta	ands 1196.6	19						Product	1		Amount	Туре				+							
Entr		IRE	0	Drill Pipe Kelly Down	Sin	0.0 ees	Remains	5																				
TO MDC	1	ODC	0 WT	Total		1697.6	-				ŀ											AVER HIGH/L						
	CT S		BHA 10.69	Weight of DC														AND	ALL	WELL	CON	UNCTION CHO	IENT IN	SPECT	SLIPS,	TONGS	B&V, DOG	COLLARS
METRES DR From T		R-C RPM	WOB HO	Hole Drag		Davia	REDUC Pump	# Pres		kes/min	Depth	BOIL FR						WHIL	LE HA	NDLIN	NG BH	ORKS, DRILL	S BROK	E APAR	T THE	GAP SU	B AND W	ERE ABOUT
				Torque At I	Bottom	Down		_	8	8	H	BOILER BoilerN	lo Hou	IrsRun 3.00	<u>pH</u> 10	Sta	ackTemp 340	SAFET		EHOLI			ABBED S		MEHL	GO AN		
	2			Fill On I					œ	œ		2		3.00	10		340	HANDL	LING BH	IA					TTIME 8	.00		20:00
TOUI	8 Z	- SI	SNATURE OF			NEWT								•										STAR	UIME C	.00	END TIME	20.00
BITS Bit N	umber	3	No	Compo	onent	OD ID Len	gth	ECORD Mud T	ype Water 🗹	Oil 🔲		Time	Depth	Deviati		irection	Type	From	To	Elapsed C		A SETV MEETING	Details	Of Operati	ions In Sec	quance & R	emarks	
	Size	200	-1	200MN		200 1 0.2 167 1 8.6			Other	16:30			0 1670.8 0 1690.0	_).60).80	28.5 37.2		8:00	8:15 9:00		9A SI	AFETY MEETING LIP AND CUT 15 I RAVEL STOPS/LII	M DRILL L	INE RE C	ALIBRAT	E BLOCK	S FUNCTION	
IADC Manufa	- H	IALLIBUR		6.5" NON MA	G PONY		55 Density	liscosity	1150 30	1160			0 1701.7 0 1711.2		0.80 2.20	38.2 98.2		9:00	9:15	0.25	(P	PASS) MEGAJOUL	ES ZERO	ED			o bitane c	
	· -	MMD64		6.5" NON MAG F	PSUB	163 1 1.6	58 pH		9.5	10			5 1725.7 5 1740.1		3.00 3.60	108.8 107.1		9:45	12:15	2.50		EST AND TROUB RIP IN HOLE FRO						ER
Sei		128600 .9 7.9 7		6.5"UBH		156 65 0.9 163 72 27	33 Depth	Of Sample	shaker 1716.00	shake 1740.		SOLIDS CO		Inta		Over Flow	Under Flow	12:15 17:45	17:45 19:30		5 A	RILL 200MM BUIL						D ALIGN
		.9 7.9	1	6.5" HYD/MEG		157 58 5.3			41	59		Name Centrifuge #	Run	Den		Density 1150	Density 1820	19:30	19:45	0.25	7 R	OOLFACE IG SERVICE FUN NNULAR 18 SEC			RAMS 7	SEC TO C	LOSE FUN	TION
Depth C Depth		1705.0		4.5" H		114 73 445	Circula		ner Size SPM	Broosuro	Hrs Run	Centrifuge #			1160	1150	1780	19:45	20:00	0.25	21 CI	REW CHANGE HA	NDOVER	SAFETY	MEETIN	G WITH RI	G MANAGE	R/ ARC
Total Drill		78.00					1			11120			ERIALS AD	DED														
Hrs Run Cumulative Hr		5.50 5.50	44	Drill Pipe	Sta	ands 1282.8	2	PARALLEL 1	27 69	11120	9.00	CAUSTIC	Product			Amount	Type 1 sxs											
Entr		I5-Dec-2			Sin	gies 0.0	0 Remarks	3				LIME ENERSCA					4 sxs 1 bbl				+							
ті то		Gage ODC		Kally Down		-0.7 1783.0	0				E											AVER HIGH/L						
MDC LOC BRG		Rasson Pulled Total Run (m/hr)	4.18	Weight of DC		0.0 76.0	-				ŀ							AND	ALL	WELL	CON	UNCTION CHO	IENT IN	SPECT	SLIPS,	TONGS	B&V, DOG	
METRES DR From T 1705.00 178	o D-I	R-C RPM	WOB HO				REDUC	# Pres	-	kes/min	Depth							TOP	DRIV	E, DR	AWW	ORKS, DRILL	LINE AN	ID DRIL	L LINE	ANCHO	R.	
1705.00 178	3.00 DR	uLL 30	11	Hole Drag Torque At I	Up Bottom	1 Down 650	1 1	3755 3800	@ 69	9 @		BOILER BoilerN 1	lo Hou	irsRun 2.00	pH 10.5		ackTemp 340	SAFET	Y		Col	ety Topic			MEHL			ACP
				Fill On I					@	0		2		2.00	10.5		340	TRIPPI	ING		0816	, ropolo				0.00		
TOUI	3	si				LOEW																		STARI		0:00	END TIME	24:00
BITS Bit N	umber	3	No	Compc	onent	OD ID Len	gth	ECORD Mud T	ype Water 🗹	Oil		DEVIATION Time	Depth	Deviati	ion D	irection	Туре		To	Elapsed C		DFW 6	Details	Of Operati	ions In Se	quance & R	emarks	
	Size	200	-1	200M		200 1 0.2			Other 21:00	—	-								20:15 23:30		ID	REW CHANGE HA	TIONS W	ТН ВОТН	H CREWS	S.	GOING TAS	KS, HAZARD
IADC Manufa	-	ALLIBUR		6.5" NON MA	G PONY	162 72 1.5	55 Density	liscosity	21:00 1155 30		- F							23:30	23:30 23:45 24:00	0.25	5 A	CCUMULATED TI IG SERVICE, GRE	ME WORK	ING STR	ING AND	CONNEC		R PIPERAMS
	Туре	MMD64	4M 1	6.5" GAF	PSUB	163 72 9.2 163 1 1.6	Fluid Lo pH		10.5	-	=					_		E				SECS TO CLOSE.						
Sei		128600 .9 7.9 7				156 65 0.9 163 72 27	23 Depth	Of Sample	SHAKERS 1791.00			SOLIDS CO		Inta			Under Flow											
	7	.9 7.9	1	6.5" HYD/MEG	CH JARS	157 58 5.3 135 58 0.8			51			Equipment Name Centrifuge #	Hours Run	Den		Diver Flow Density 1150	Under Flow Density 1640				+							
Depth C Depth		1810.0 1705.0		4.5" H		135 58 0.8	Circula		ner Size SPM	Pressure	Hrs Run	Centrifuge #			1160	1150	1640											
Total Drill		105.0					Pump#	24.5			1	MUD MATE	ERIALS AD	DED							+							
Hrs Run Cumulative Hr	- H	3.25 8.75	45	Drill Pipe	Ste	ands 1311.7	2	PARALLEL		11800	4.00	DEFOAM	Product			Amount .	Type 1 EACH											
Entr		5-Dec-2		Drill Pipe		gies 0.0	0 Remarks					ENERCLE					1 EACH											
ті то		Gage ODC		Kelly Down Total	<u> </u>	-1.9 1810.7					ŀ				-		-	Rema FUN	I CTIO	N CRO	WNS	AVER HIGH/L	OW TRA	VEL ST	OPS/I	IMITS. IM	ISPECT F	LARE AND
MDC LOC BRG		Rasson Pulled Total Run (m/hr)	2.00	Weight of DC		0.0 76.0	-				ŀ							DEG	ASSE	R LIN	ES,FL	UNCTION CHO	KES AN	ID FLAF	RE STA	CK IGN	TOR. INSI	PECT BOP
METRES DR	LLED	R-C RPM		LE CONDI			REDUC	# Pres		kes/min	Depth							TOP	DRIV	E, DR/ LEFT	AWW STEA	ORKS, DRILL	LINE AN BY BLO	ID DRIL WER EX	L LINE	ANCHO ON PUN	R. HAZAR	RD ID - ING THE
From T 1783.00 181	0.00 DR	RILL 35	11	Hole Drag Torque At I		1 Down 700	1 1	3800 3860	@ 69	9 @	1782.00	BOILER BoilerN		rsRun	pН	Sta	ackTemp	INTA SAFET		TO FR		E OVER W/ ICE	NOT A	LLOWIN		AIR FL		
	-	_		Fill On I	Bottom		1 É		@ 0:		1/82.00	1 2		4.00 4.00	<u>10</u> 10		340 340	DERRI	CK COM	NECTIO		ety Topic			MEHL		N	IACP

										т	our Sheet Seria	I Number		Vender Se	ottware Version			Year	Mont	n Day	DAILY	HECKO			00-01	-	Page	2 of 2
License No		Well Name				UMMAF	łΥ			s	PREC4	465_20161	1215_1A	Pro	RMS 2	D16.6.14.3	Unique W	rel Id	016 1	2 15	(2.) Detailed In	k Around Inspe	ekly (Using Che	ack List)	DS RT	7 F	CAG	
32574 Operator		ARCRES H	IZ Septim	us H11-34	4-81-18W	6		Contractor	en Drillin		<u>1-34-81-1</u>	8 W6		BC Rig 46	No	DLS Well Type	102/09 HO	9-35-081	1-18W5	Re-Entry		nce & Stick Dia Is Staked			DS RT DS RT			
ARC Res Operator's AF	FE	Lta.						Contractor 35	ion Drilling 's Job No	g, aiv of F	200			46	Spud Da	te Time 09-Dec-		<u> </u>	18:00		(7.) Visually In (1.) Rig Site H	respected BOPs realth & Safety	-Flare Lines & I Meeting (one/c ection Checklist	rew/month)	DS RT			
Signature Of DOUG	Operator's Re	epresentative						Signature	Df Contractor's R OMPKINS	ig Manager					Rig Rel	ease Date Time		1			(3.) Mast Insp (4.) Crown Sa (5.) Motor Kills	ection before F wer Checked	Raising or Lowe	ring	RT		$\overline{\mathbf{V}}$	
Code	1 Big	2 Drill	3 Reaming	4 Coring	5 Cond Mud	6 Trips	7 Big	8 Repair	9 Cut Off	10	11 Wireline	12 Run Cso	13 Wait On	14 Nipple	15 Test	16 Drillstern	17 Plug	18 Squeeze	19 Fishing	20 Dir	21 Safety	22 Tear	23 Waiting	24 Big	25 Other		EUEL @	4964 08:00 HRS
Tour 1	Rig Up	Drill Actual			Cond Mud & Circ	4.50	Rig Service	Repair Rig	Cut Off Drilg Line	Dev Survey	Wireline Logs	Run Csg & Cement	Wait On Cement	Nipple BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement		Work 3.00	Safety Meeting 0.50	Tear Down	Waiting On	Rig Watch		TOTAL 8.00	Rig 31382 Time	Boller 10190 Temp
Tour 1		5.50			1.75		0.25		0.75											0.50						12.00	06:00 Current Condition	-21
Tour 3		3.25			0.25		0.25		0.75											2 50	0.25					4.00	Wind Direction N Road Condition	Wind Strength UP TO 19 KM/H
TOTAL	UR	8.75				7.25 10EW	-		0.75											3.50	1.25			START	0	24.00		8:00
BITS	IUR	5		RILLING A				ECORD					N SURVEYS					TIMEL	00					START	UME	.00	ENDTIME	0.00
	Number	3	No	Comp	onent	OD ID Len	gth		ype Water	₫ °"□		Time	Depth	Deviati	on D	irection	Туре		To Elaps	ed Code			Details	Of Operati	ions In Sec	quance & Re	narks	
IAI	Size DC Code	200		200MI	7/8 5 STG	200 1 0.2 167 1 8.6	52 Time		Other																			
		HALLIBUR	1 TON 1	6.5" NON MA		162 72 1.5 163 72 9.3		iscosity																				
		MMD6/ 128600		6.5" GA	P SUB	163 1 1.6	Fluid Lo pH																					
	- H	7.9 7.9 7	.9 7.9 3	6.5" NON MAG	FLEX MONEL	156 65 0.9 163 72 ₂₇	33 Depth	Of Sample				SOLIDS CO	ONTROL Hours	Inta	ike C	ver Flow	Under Flow			++								
Denth	n Out (m)	7.9 7.9		6.5" HYD/ME		157 58 5.3	30					Name	Run	Den	sity	Density	Density			++								
	ith In (m)	1705.0	<u>48</u>	4.5" H	WDP	114 73 📖	Circula Pump #		ner Size SPN	Pressure	Hrs Run																	
Total Di Hrs Ru												MUD MATI	ERIALS AD	DED														
Cumulative	- i-	0.00	41	Drill Pipe	Sta	nds 1196.6	19		_	_			Product			Amount	Туре											
Er CUTTING	ntry Date	JRE	0	Drill Pipe Kelly Down	Sin	^{gles} 0.0														++								
TO MDC	1		0 WT	Total		1697.6	-																					ARE AND
LOC BRG	CT S X		BHA 40.69	Weight of DC														AND	ALL WE	LL CÓN	TROL E		IENT IN	SPECT	SLIPS,	TONGS E	&V, DOG	ECT BOP COLLARS
METRES F		-R-C RPM	WOB HO	DLE COND		Down	REDUC Pump	# Pres		trokes/mir	Depth	001 50						WHIL	E HAND	LING BI	HA, WÒ	RKERS	BROK	E APAR	T THE	GAP SUE		RE ABOUT
				Hole Drag Torque At	Bottom	Down			8	@ @		BOILER BoilerN	lo Hou	rsRun	рH	Sta	ackTemp				WORKE	R GRA	BBED			GO ANL		
		2 si		Fill On					œ	@								HANDL	ING BHA	Gui					0			20.00
то	108 4	z si				NEWT												I						START	oliiiii≣ O	6:00	END TIME	20:00
BITS	Number	3	No	Comp		OD ID Len	gth	ECORD Mud T	ype Water			Time	Depth	Deviatio		irection	Туре	From		ed Code			Details	Of Operati	ions In Sec	quance & Re	narks	
	Size	200		200MI		200 1 0.2 167 1 8.6			Other 18:30	\neg			5 1749.6 1759.2	_	.90 .60	107.8 104.1												
	DC Code	HALLIBUR	-41	6.5" NON MA	IG PONY	162 72 1.5	55 Density	iscosity	1160 30	_	_	19:45	5 1768.7	7 18	.70	104												
	Туре	MMD6	4M 1	6.5" GA	P SUB	163 72 9.2 163 1 1.6	Fluid Lo pH		10	_																		
5		128600 7.9 7.9 7		6.5"UBH		156 65 0.9 163 72 27	Depth	Of Sample	shaker 1775.00			SOLIDS CO	ONTROL	Inta	***	ver Flow	Under Flow											
	- F	7.9 7.9		6.5" HYD/ME		157 58 5.3			57			Name Centrifuge A	Run	Den		Density 1150	Density 1820											
	n Out (m)	1705.0	- 40	4.5" H		114 73 445	Circula		ner Size SPN	Broosuro	Hrs Run	Centrifuge #			1160	1150	1780											
Total D		78.00					1		27 69		0.00		ERIALS AD															
Hrs Ru Cumulative	In Today Hrs Run	5.50 5.50		Drill Pipe	Sta	nds 1282.8	2	PARALLEL 1	27 69	11120			Product		_	Amount	Туре											
Er		15-Dec-2		Drill Pipe	Sin	gies 0.0	0 Remarks				-																	
TI TO		Gage		Kelly Down		-0.7 1783.0					-							Remai FUN		ROWNS	AVER H	HIGH/LC	OW TRA	VEL ST	OPS/LI	IMITS. IN	SPECT FL	ARE AND
MDC LOC BRG		Rasson Puled Total Run (m/hr)	14.18	Weight of DC		0.0	-											AND	ALL WE	LL CON	TROL E	QUIPM	IENT IN	SPECT	SLIPS,	TONGS E	&V, DOG	ECT BOP COLLARS
METRES D	To D	-R-C RPM	WOB HO	DLE COND			REDUC	# Pres		trokes/mir	Depth							TOP	DRIVE, I	DRAWW	ORKS,	DRILL	LINE AN	ND DRIL	L LINE	ANCHO	र.	
				Hole Drag Torque At		Down 650	1 1	3755 3800	œ	69 @	1754.00	BOILER BoilerN	lo Hou	rsRun	pН	Sta	ackTemp	SAFET	Y	e. 1	ety Topic				MEHL		,.	ACP
		, _		Fill On					@	@								TRIPPI	NG	lbo	, ropic					0.00		
TO	iur 3	SI SI	SNATURE OF	F DRILLER		LOEW		FCODE				DEVIN		,				7	00					STARI	TTIME 20	0.00	END TIME	24:00
BITS	Number	3	No	Comp	onent	OD ID Len	gth	ECORD Mud T	ype Water			DEVIATIO Time	Depth	Deviatio	on D	irection	Туре	TIME From	To Elaps	ed Code			Details	Of Operati	ions In Sec	quance & Re	narks	
	Size	200		200MI		200 1 0.2 167 1 8.6			Other	Ţ	-									++								
	DC Code ufacturer	HALLIBUR		6.5" NON MA	G PONY	162 72 1.5	55 Density	iscosity	-	+						-				++								
	Туре	MMD6	4M 1	6.5" GA	P SUB	163 1 1.6	Fluid Lo pH	35								_												
5		128600 7.9 7.9 7		6.5"UBH		156 65 0.9 163 72 27	33 Depth	Of Sample				SOLIDS CO	ONTROL Hours	Inta	ite C	iver Flow	Under Flow			$\pm \pm$								
	7	7.9 7.9	1	6.5" HYD/ME	CH JARS	157 58 5.3						Equipment Name	Run	Den		Density 1150	Density 1640			++								
	n Out (m) ith In (m)	1810.0 1705.0		4.5" H		135 36 0.8	Circula		ner Size SPN	Pressure	Hrs Run	Centrifuge #			1160	1150	1625											
Total D		105.0					1 Pump #		27 69	-		MUD MAT	ERIALS AD	DED														
Hrs Ru Cumulative	In Today Hrs Run	3.25 8.75		Drill Pipe	Sta	nds 1311.7	2	PARALLEL 1	27 69	11800	4.00		Product			Amount	Туре											
Er		15-Dec-2			Sin	gies 0.0	0 Remarks				L									+								
ті то		Gage ODC		Total	<u> </u>	-1.9 1810.7	7				ŀ							Remai FUN		ROWNS	AVER H	HIGH/LC	OW TRA	VEL ST	OPS/LI	IMITS. IN	SPECT FL	ARE AND
MDC LOC BRG		Total Run (m/hr)	12.00	Weight of DC		0.0 76.0	0											DEG. AND	ASSER L ALL WE	LINES, FU	UNCTIO	N CHO	KES AN	ID FLAF SPECT	RE STA SLIPS,	CK IGNIT	OR. INSP &V, DOG	ECT BOP COLLARS
METRES D		-R-C RPM	WOB HO	DLE COND			REDUC	# Pres		trokes/mir	Depth	007						WOR	KER LE	FT STEA	AM BLA	NKET E	BY BLO	WER EX	KHUST	ON PUM	R. HAZAR	NG THE
				Hole Drag Torque At		Down 700	1 1	3800 3860	œ	69 @	1782.00	Boiller	lo Hou	rsRun	pН	Sta	ackTemp					W/ ICE	NOT A	LLOWIN	MG ANY	AIR FLC	W TO EL	
				Fill On	Bottom				œ	@	./62.00							DERRI			ety Topic				MÉHL		M	1017

										Т	our Sheet Serial	Number		Vender S	oftware Version			Year	r h	onth D	DAILY CHECKS		OP RM		
License No		Well Name				SUMMAF	₹Ŷ			Si	urface Location	65_20161	216_1A	Pa	av.	D16.6.14.3	Unique V	Vell Id	016	12	 (1.) Daily Walk Around Inspection (2.) Detailed Inspection - Weekly (L (3.) H2S Signs Posted if Required 		DS RT	CAOD	
32574 Operator ARC Res	source		HZ Septin	ius H11-34	4-81-18	W6		Contractor Precis	ion Drilling,		1-34-81-1	5 W6		B(Ric 46	j No	DLS Well Type		9-35-08 [.] RIZ	1-18W5	Re-Ent	 (4.) Well Licence & Stick Diagram F (5.) Flare Lines Staked (6.) BOP Drills Performed (7.) Visually Inspected BOPs-Flare 		DS RT DS RT		
Operator's AP	FE							Contractor 35	's Job No						Spud D	09-Dec-	2016	1	18:	00	 Visually inspection BOPS-Flate Rig Site Health & Safety Meetin CAODC Rig Safety Inspection Mast Inspection before Raising 	na (one/crew/month)	RT		
DOUG S		Representative			-		-	ROD T	Of Contractor's Rig I	-		10	40		rig ru	ase bate time			40		(4.) Crown Saver Checked (5.) Motor Kills Checked		RT	Kelly Bushing	Op Fuel
Code	1 Rig Up	2 Drill Actual	3 Reaming	4 Coring	Cond M & Circ	d Trips	Rig Service	Repair Rig	9 Cut Off Drilg Line	Dev Survey	11 Wireline Logs	Run Csg & Cement	13 Wait On Cement	Nipple BOP	Test BOP	16 Drillstem Test	Plug Back	18 Squeeze Cement	Fishin	g Dir Wor		23 24 Vaiting Rig On Watch	Other	OTAL	3901 8:00 HRS
Tour 1		5.25	;		1.0	_	0.25			,										1.2				3.00 27481	10190
Se Tour 2		8.75	-		2.7	-	0.25														0.25		+	2.00 Current Conditions	-26
TOTAL		3.00	-		0.2	-	0.25													0.2			<u> </u>	4.00 Wind Direction N Road Condition	UP TO 19 KM/H
то	UR	1 s	GNATURE O	FDRILLER	DAVE	LOEW	EN													1		START	TIME 0:0	0 END TIME 8	8:00
BITS			D	RILLING A	SSEME	ιLY	MUD R	ECORD				DEVIATION	SURVEY	S				TIME	LOG						
Bit	Number	3 200	N	Compi		OD ID Len	gth 27	Mud T	ype Water	01	-		Depth 1797.6		on D	irection 105.1	Туре	From 0:00	2:45		DRILL 200MM BUILD SE		1810M - 182	5M	
IAI	Size DC Code	200	T	6.5" MOTOR	7/8 5 STG	167 1 8.6	62 Time		01:00	04:30			1807.2		7.00 3.30	105.4 104.9			5:45		TROUBLE SHOOT EM 1 DRILL 200MM BUILD SE RIG SERVICE, GREASE	ECTION FROM	1825M - 184	1M	
Manu	ufacturer			6.5" NON MA	FLEX MONEL	162 72 1.5 163 72 9.3	24 Funnel V		30	30			1826.5 1836.2		7.90 0.40	104.6 105.1					TO CLOSE) DRILL 200MM BUILD SE				(195205
s	Type Serial No	12860		6.5" GAI			68 pH	Of Sample	10.5 SHAKERS	10 SHAI	KERS			5 23	.40	105.1		6:45	7:45	.00 5	ACCUMULATED TIME V	NORKING PIPE	AND CONN	ECTIONS	RC
	Jets	7.9 7.9	7.9 7.9	6.5" NON MAG F	FLEX MONEL	163 72 27 157 58 5.3	33 Depth		1813.00 50	1832.		Equipment	Hours Run	Inta		ver Flow Density	Under Flow Density				REPRESENTATIVES/CF	REWS			
Depth	n Out (m)	7.9 7.9	Ľ	6.5" HYD/ME	UB	135 58 0.8		tion				Centrifuge #	1 8.	00	1155	1145	1640 1620								
	ith In (m)	1705.	- 00	3 4.5" H	WDP	114 73 🗤	Pump #		ner Size SPM	Pressure	Hrs Run	Centrifuge #	2 0.	.00	1155	1145	1620								
Total Dr Hrs Ru		152.0 5.7					1		27 69	12000		UD MATE	RIALS AD				-								
Cumulative		14.5		Drill Pipe		Stands 1369.4		PARALLEL	27 69	12000							Type 1 EACH	E							
Er		15-Dec-	2016 0	Drill Pipe Kelly Down	•	^{Singles} 0.0 -13.4	- Nethalks				Ĩ	NERCLE	AR 1802			2	2 EACH								
TO MDC		ODC Resson Pulled		Total Weight of DC		1857.0	0				F										SAVER HIGH/LOW				
LOC BRG		Total Run (m/m)	10.48	Weight of String		77.0												AND	ALL V	ELL C	NTROL EQUIPMEN	IT INSPECT	SLIPS,TO	NGS B&V, DOG C	OLLARS
METRES D From 1810.00 18	To	D-R-C RPM DRILL 35		Hole Drag		2 Down	3 Pump		sure Stro	kes/min	Depth	BOILER						BOL	TS ON	SUIT C	ASE STAIRS HAD B				
				Torque At	-	700	0 1	3800 3760		9 @ 9 @	1792.00	- ·	o Hou	IrsRun 3.00	pH 10	Sta	ckTemp 340	SAFET			Safety Topic		MEHL	MACF	p
то	110	2 5		Fill On		NEWT			œ	@		2	8	3.00	10		340	USE O	F STEAM			STAD	TIME 8:0	0 END TIME 20	0.00
BITS		2		RILLING A				ECORD					SURVEYS	•				TIME	00			START	0.0		
	Number	3	N	Comp	onent	OD ID Len	gth		ype Water	Oil		Time	Depth	Deviati		irection	Туре	From	To El	apsed Cod	RIG SERVICE FUNCTIO	Details Of Operation			
	Size DC Code	200		200MI		200 1 0.2 167 1 8.6			Other	16:00		10:00	1845.8 1855.4	0 32	.00 2.70	106.4 108.1		8:15	17:00	8.75 2	DRILL 200MM HOLE FR	ROM 1857M TO	1922M		OOL FACE
	ufacturer	HALLIBU		6.5" NON MA		162 72 1.5 163 72 9.2	Eunnel V	iscosity	1155 30	1140			1865.0 1874.7		5.60).00	108.1 108.6					ORIENTATION CREW CHANGE HANDO				
	Туре	MMD6		6.5" GAI	P SUB	163 1 1.6	Fluid Los 68 pH	IS	9.5	9.5			1884.5		.70 3.50	107.9 106.6					REPRESENTATIVES/CF	REWS			
S	Serial No Jets	12860 7.9 7.9				156 65 0.9 163 72 27	33 Depth	Of Sample	SHAKERS 1860.00	SHAI 1910.		OLIDS CO		Inta		Iver Flow	Under Flow								
		7.9 7.9		6.5" HYD/ME		157 58 5.3			35	35		Name Centrifuge #	Run 1 12.	Der		Density 1140	Density 1640								
Depth Dep	n Out (m) ith In (m)	1705.		34.5" H			Circula		ner Size SPM	Pressure		Centrifuge #			1150	1140	1640								
Total Dr		152.0					1		27 69				RIALS AD	DED											
Hrs Ru Cumulative	ın Today Hrs Run	8.7 23.2		Drill Pipe		Stands 1427.3		PARALLEL	27 69	15900	12.00	ENERCLE	Product			Amount	Type 1 EACH								
Er	ntry Date	15-Dec-		Drill Pipe		Singles 0.0	0 Remarks				L	NERHIB				1	2 EACH 2 EACH								
ті то	STRUC	Gage		Kelly Down Total		-6.3 1922.0						IME				(6 EACH	Rema FUN		CROW	SAVER HIGH/LOW	TRAVEL ST	OPS/LIMI	TS. INSPECT FLA	RE AND
MDC LOC BRG		Rasson Pulled Total Run (m/hr)	6.54	Weight of DC		0.0 77.0	-				E							DEG	ASSEF	LINES	FUNCTION CHOKE	S AND FLAF	RE STACK	IGNITOR. INSPEC	CT BOP
METRES D	To	D-R-C RPM DRILL 30	WOB H	DLE COND	ITION		REDUC	# Pres		kes/min	Depth							TOP	DRIVE	, DRAV	WORKS, DRILL LIN	E AND DRIL	L LINE A	ICHOR.	
1857.00 19	922.00	DRILL 30	14	Hole Drag Torque At	Up Bottom	2 Down 700	2 1	3780	@ 6		1898.00		o Hou		pH		ckTemp	SAFET	Y		Pafat. Tani		MEHI		
				Fill On					@	0	-396.00	1 2		2.00 2.00	10.5 10.5		340 340	DERRI	CK CONN	ECTIONS	Safety Topic	80		3528	_
то	UR	3 8				E LOEW																START	11IME 20:0	0 ENDITIME 24	1:00
BITS	Number	3	D	Comp		OD ID Len	MUD RI		ype Water 🗹	Oil 🗖		Time	Depth	Deviati		irection	Туре	TIME From	To E	apsed Cod		Details Of Operation			
- Dit	Size	200	Ē	200MI		200 1 0.2			Other				1913.3 1923.0		3.70 .10	106.6 107.8		20:00	20:15 (0.25 21	CREW CHANGE HAND OBSERVATIONS WITH	OVER MEETIN BOTH CREWS.	G. DISCUSS	ED HAZARD IDS AND	
	DC Code ufacturer			6.5" MOTOR 6.5" NON MA		162 72 1.5	55 Density		21:45 1140	23:30 1150			1932.7		2.50	107.7			23:30	.25 5	DRILL 200MM BUILD SE ACCUMULATED TIME V	WORKING PIPE	AND CONN		
Manu	ufacturer Type	MMD6	484	6.5" GAI	P SUB	163 72 9.2 163 1 1.6	24 Eluid Loc	iscosity is	30	30								23:30 23:45	23:45	0.25 204 0.25 7	ACCUMULATED M.W.D RIG SERVICE, GREASE (6SECS TO CLOSE).	AND SERVICE	TOP DRIVE	. FUNCTION LOWER F	PERAMS
5	Serial No	12860	043 ·	6.5"UBH		156 65 0.9	92 Location	Of Sample	10.5 SHAKER 1930.00	10 SHAI 1950.		OLIDS CO	NTROL						\models		10 GLUSE).				
	Jets	7.9 7.9 7.9 7.9	Ľ	6.5" HYD/ME	CH JARS	163 72 27. 157 58 5.3	33 PVT 30		49	48		Equipment Name	Hours Run	Int Der	isity	Iver Flow Density	Under Flow Density	E							
	n Out (m)	1705.		X/O SI 3 4.5" H	UB	135 58 0.8	BO Circula	tion				Centrifuge # Centrifuge #			1145 1145	1135 1135	1690 1670								
Dep Total Dr	ith In (m) rilled (m)	252.0					Pump#	<i>n</i> ·	ner Size SPM	Pressure	Hrs Run								\models						
Hrs Ru		3.0	-				2	PARALLEL	27 69	15900 15900		IUD MATE	RIALS AD Product			Amount	Туре								
	ntry Date	26.2 15-Dec-		Drill Pipe Drill Pipe		Stands 1456.3 Singles 0.0	35				Ē								\models	-					
	STRUC	Gage ODC		Kelly Down		-0.2 1957.0	8				ŀ							Rema	rks	0.000		TD 41/2:	0000		DE
TO MDC LOC		Reason Pulled	9.60	Weight of DC		0.0	0				ŀ						-	DEG	ASSEF	LINES	SAVER HIGH/LOW	S AND FLAF	RE STACK	IGNITOR. INSPEC	CT BOP
BRG MINTRES D	RILLED			Weight of String		78.0		ED PUMP	SPEED								<u> </u>	TOP	DRIVE	, DRAV	NTROL EQUIPMEN	E AND DRIL	L LINE A	CHOR. OBSERVA	ATION-
From 1922.00 19	To 957.00	D-R-C RPM DRILL 35	14	Hole Drag	Up		7 Pump :	# Pres 4060		kes/min 9 @		BOILER	0 1.1-	ure Poor	-11	10	l	WOR	KER T		D USE A STEAM HO DU COULD GET SER				
\square	=		\square	Torque At Fill On	-	700	0 2	4040		9 @	1928.00	BoilerN 1 2	4	IrsRun 4.00 4.00	pH 10 10		340 340	SAFET RIG SE			Safety Topic	80	MEHL	MACF	,
<u> </u>	_									- U		-			10		5.10	J							

										т	our Sheet Seria	il Number		Vender S	ioftware Versio	in		Year	Mont	Day	DAILY C	150%0			OP RM		Page 1	of 2
License No		el Name			AGE SL		RY			s	iurface Location	465_20161	217_1A	Pr	DV .	2016.6.14.3	Unique V	20 rel id		2 17	(1.) Daily Wal (2.) Detailed I	k Around Inspe nspection - We s Posted if Reg	ekty (Using C	Check List)	AL RT		CAD	
32574 Operator ARC Reso			Z Septim	us H11-34	-81-18W6	i		Contractor	ion Drilling		1-34-81-1	8 W6		B Ri 46	g No	DLS Well Type	102/09 HO	9-35-081-	-18W5	Re-Entry		nce & Stick Dia s Staked		I.	AL RT AL RT AL RT	-		
Operator's AFE								Contractor 35	's Job No					140	Spud D	Date Time 09-Dec-			18:00		(7.) Visually II (1.) Rig Site F (2.) CAODC F	ispected BOPs lealth & Safety lig Safety Inspe	Meeting (one	list (one/rig/month	RT			
Signature Of Op	erator's Repr	esentative							Of Contractor's Rig	Manager					Rig Ri	alease Date Time	2	Ì			(3.) Mast Insp (4.) Crown Sa (5.) Motor Kill	ection before R ver Checked s Checked	Raising or Lov	wering	RT			
Code	1 Rig Up	2 Drill Actual	3 Reaming	4 Coring	5 Cond Mud & Circ	6 Trips	Rig Service	8 Repair Rig	9 Cut Off Drilg Line	Dev Survey	11 Wireline Logs	Run Csg & Cement	13 Wait On Cement	14 Nipple BOP	Test BOP	Drillstem Test	Plug Back	18 Squeeze	19 Fishing	20 Dir Work	21 Safety Meeting	Tear Down	28 Waiting On	Rig Watch	25 Other		FUEL @	4439 08:00 HRS
Tour 1	Up	Actual 5.50		-	& Circ 2.00		Service 0.25	Rig	Drilg Line	Survey	Logs	& Cement	Cement	BOP	BOP	Test	Back	Cement		Work	Meeting 0.25	Down	On	Watch		TOTAL 8.00	Rig 23049 Time	Boller 9636 Temp
Tour 2		5.00			2.25	4.75																				12.00	06:00 Current Condition	
Tour 3 TOTAL		10.50			4.25	4.75	0.25													3.75						4.00 24.00	Road Condition	Wind Strength UP TO 19 KM/H
тои	1		SNATURE OF	DRILLER	DAVE				I														1	STAR	т тіме О):00		8:00
BITS			DF	RILLING A	SSEMBLY	1	MUD R	ECORD				DEVIATIO	N SURVEY	s				TIME L	OG									
Bit N	umber	3 200	No 1	Comp.		00 ID Ler	gth 27	Mud T	ype Water] •• 🗹		Time 01:45	Depth 1942.2	Deviat	ion 1 1.40	Direction 107.2	Туре	From 0:00	To Elaps 0:15 0.2	5 7 R			ASE AN	D SERVICI	E TOP DE		CTION ANNU	AR (19SECS
IADO	Code	200		6.5" MOTOR			62 Time		03:00		_		1951.9	_	7.00 9.50	107.3 106.8					RILL 200	MM BUILI	D SECT	ION FROM		EC EACH 1 2025M	O CLOSE)	
Manufa		ALLIBUR		6.5' NON MAG P	LEX MONEL	63 72 9.:	24 Funnel V		30 10				1971.2 1981.0		1.70 3.80	105.8 105.5		6:15	6:30 0.2	5 2 D	RILL 200	MM BUILI	D SECT	ION FROM		2040M DNNECTION	NS	
Sei	rial No 1	28600	43 1	6.5" GAI 6.5"UBH			92 Location	Of Sample	SHAKER				1990.6		6.10	105.6				5 21 C		ANGE HA	NDOVE	R SAFETY			MANAGER/	ARC
		9 7.9 7 9 7.9	- 1.5	6.5" NON MAG F	LEA MONEL .	63 72 27 57 58 5.3	33 Depth PVT					Equipment Name	Hours	Int Der		Over Flow Density	Under Flow Density											
Depth C	Dut (m)		1	X/O S 4.5" H	UB 1	35 58 0.4	B0 Circula	ition												+								
Depth Total Drill		1705.0 335.0				14 10 4	Pump#		ner Size SPM	Pressure	Hrs Run																	
Hrs Run	-	5.50					2	CONDINCO	27 78		8.00	MUD MATI	Produc			Amount	Туре											
	y Date 1	31.75 5-Dec-2		Drill Pipe Drill Pipe	Stan	1343.	-					CES SEC					1 BBL 1 BBL											
	TRUCTU	Gage		Kelly Down		-2.4 2042.0	3					WETTER LIME					1 BBL 0 BAGS	Remark									SPECT FL	
MDC	_	Reason Pulled	0.55	Weight of DC		2042.0	Ĭ								+			DEGA	SSER I	INES,F	UNCTIO	N CHO	KES A	ND FLA	RE STA	CK IGNI	SPECT FL FOR. INSP 8&V, DOG	ECT BOP
BRG MININISSIDA From T	O D-R	-C RPM	WOB HO	Weight of String	TION		REDUC	# Pres		okes/mir	Dopth				+		-	TOP [DRIVE, I	DRAWW	ORKS,	DRILL I	LINE A	ND DRIL	L LINE	ANCHO	R. HAZARI	D ID - ROLL
1957.00 204	0.00 DRI	LL 30	10	Hole Drag Torque At		Down 750	0 1	4060 4040	@	59 @ 59 @	1928.00	BOILER BoilerN		ursRun	pH		ackTemp	PIN SAFETY				-	-					
				Fill On				4040	@	@	1928.00	1		8.00 8.00	10 10		340 340	WINTER	OPERATI		ety Topic			87	MEHL	35		
TOUI	2	SIC	GNATURE OF		RYAN		ON																	STAR	111ME 8	8:00	END TIME	20:00
BITS Bit N	umber	3	DF No	Compo	SSEMBLY ment C	DD ID Ler	MUD R		ype Water] ₀¤ 🕰		DEVIATIO Time	Depth	Deviat		Direction	Type	TIME L	To Elaps	ed Code			Detai	ls Of Operat	ions In Sec	quance & Re	marks	
	Size	200		200M		00 1 0.: 67 1 8.0			Other	戸			2029.4	_	1.50 3.00	104.1 103.1		8:00 13:00		0 5 A		ATIVE TI		2040M TO			TIONS AND	TOOLFACE
IADC Manufa	-	ALLIBUR		6.5" NON MA	G PONY 1	62 72 1.5	55 Density	iscositv	14:15 1190 57				2048.9		5.70 3.80	103.3 102.7			15:15 0.7 20:00 4.7	5 5 C	ONDITIO	N MUD &		ATE	FROM 20	83M TO50M	WITH FLOW	CHECKS @
	- H	MMD64		6.5" NON MAG F	SUB 1	63 1 1.	Fluid Los 68 pH	35				14:15	2083.3	5 81	.00	102.3				2	083M,197	8M,1020N	M,464M,	OM FILL VO	DLUMES (CALC: 9.99	M3 ACT: 11.1 EC TO CLOS	1M3
Sei		28600 9 7.9 7		6.5"UBH		56 65 0.9 63 72 27	92 Location 33 Depth	Of Sample	SHAKER 2083.00			SOLIDS CO	ONTROL Hours	Int	ake (Over Flow	Under Flow											
Depth C		9 7.9 2083.0		6.5" HYD/MEI X/O S		57 58 5.: 35 58 0.:			65			Name Centrifuge #	Run	.00		Density 1140	Density 1960			++								
Depth		1705.0	- 40	4.5" H		14 73 "	Circula		ner Size SPM	Pressure	Hrs Run																	
Total Drill Hrs Run		378.0 5.00					1		27 73	18900		MUD MAT	RIALS AD	DDED														
Cumulative H	-	36.75	5 54	Drill Pipe	Stan	13/2.		PARALLEL	27 73	18900		BARITE	Produc	t			Type 4 SXS		_									
Entr		5-Dec-2	016 1	Drill Pipe Kelly Down	Sing	∞ 9.3 0.0	Remarks					CES WET	TER		_		1 BBL											
TO MDC	=	ODC Reason Pulled		Total Weight of DC	:	2083.0	0								+		-	Remark FUNC	TION C			HGH/LC	OW TR	AVEL ST	TOPS/LI	IMITS. IN	SPECT FL	ARE AND
LOC BRG		Total Run (m/hr)	0.29	Weight of String			REDUC	ED PUMP	SPEED									AND /	ALL WE	LL CÓN	TROL E	QUIPM	IENT II	NSPECT	SLIPS,		8&V, DOG	
From T 2040.00 208	o D-R 3.00 DRI	-C RPM LL 30	WOB HO 10	Hole Drag		Down	3 Pump		sure Str	okes/mir 73 @	Depth 2071.00	BOILER	_					i										
	+			Torque At Fill On	Bottom	320		6048		73 @ @	2071.00	BoilerN 1 2	1	2.00 2.00	pH 10.5 10.5	5	ackTemp 340 340	SARETY	IG	Saf	ety Topic			90	MEHL	29	MA 82	CP
тол	3	sic	SNATURE OF	DRILLER	DAVE	LOEW	EN							2.00	TON		040							STAR	TTIME 20	0:00	END TIME	24:00
BITS			DF	_	SSEMBLY			ECORD				DEVIATIO						TIME L										
Bit N	umber Size	4	No 1			59 1 0.:	21	Mud T	ype Water Other] •• 🗹		Time	Depth	Deviat	ion E	Direction	Туре	20:00	To Elaps 20:15 0.2 24:00 3.7	5 21 S			HELD P	RIOR TO H	ANDLING	quance & Re 3 BHA 00MM BHA	PICK UP 159	MM
IADC	-		1	NEAR BIT		35 1 1.0			+	T								20.13			ATERAL			JEJ. LAT			. 101 0P 155	
Manufa	Type SI	REEL	1	NON MAG FL	EX MONEL	18 70 9.4 28 1 1.4	49 Funnel V Fluid Los																					
Sei	rial No	E2289	24 2	NON MAG FL	EX MONEL	18 70 18	99 Location	Of Sample		+		SOLIDS CO	ONTROL						=									
		5 9.5 5 9.5	2	SLIDE RE	ER SUB 1	21 58 1.4 30 60 1.1	72 PVT		1			Equipment Name	Hours Run	Int Der		Dver Flow Density	Under Flow Density	E†										
Depth C Depth	Dut (m)	2083.0	1	5" JAI	RS 1	30 58 5.: 30 60 1.:				ė					-													
Total Drill		0.00	-1		TOR 1	24 68 7. 30 60 0.	41 Pump#	Type Lir	ner Size SPM	Pressure	Hrs Run								+	++								
Hrs Run Cumulative Hr		0.00											RIALS AD Produc			Amount	Туре	E†										
Entr	y Date 1	7-Dec-2		Drill Pipe Drill Pipe	Stan Sing	s 9.7	7 Remarks					LIME CES SEC CES WET			+		0 EACH 1 EACH 1 EACH											
CUTTING S	2 4	Gage	0 FC	Kelly Down Total		0.0 2078.1	0					ENERMUI CALCIUM	P-100	DE	\mp		1 EACH 1 EACH 0 EACH	Remark FUNC		ROWNS	AVER	ligh/i r	OW TR	AVEL ST	TOPS/I		SPECT FL	
MDC LOC BRG	BT S	Rasson Pulled	BHA 0.29	Weight of DC														DEGA	SSER I	INES,F	UNCTIO	N CHO	KES A IENT II	ND FLAI	RE STA SLIPS,	CK IGNI TONGS E	FOR. INSP 8&V, DOG	ECT BOP COLLARS
METRES DR From T		-C RPM	н	DLE COND	TION		REDUC Pump	# Pres	_	okes/mir	Depth							TOP [DRIVE, I	DRAWW	ORKS,	DRILL I	LINE A	ND DRIL	L LINÉ		R. HAZARI	
				Hole Drag Torque At	Up Bottom	Down		. 185	@ @	@ @		BOILER BoilerN		ursRun	pH		ackTemp	SAFETY									МА	CD
				Fill On	Bottom				@	@		1 2		4.00 4.00	10 10		340 340	HANDLI	NG DIREC	Saf	ety lopic A				MEHL		MA	5 7

					1050					1	our Sheet Seria	il Number		Vender S	loftware Version	n		Year	Month	Day	DAILY C	HECKS			OP RM		Page	2 of 2
License No 32574		Well Name ARCRES H				UMMAR /6	łΥ			s 1	PREC lurface Location 1-34-81-1	465_20161 8 W6	1217_1A	Pr B	DV	016.6.14.3	Unique V	20 Vel 1d 9-35-081	016 1: -18W5	2 17	(1.) Daily Wal (2.) Detailed I (3.) H2S Sign	Ik Around Inspe Inspection - We is Posted if Reg	ekty (Using 0 quired		AL RT		CAO	DC
Operator ARC Res			i copuin					Contractor Precis Contractor		ng, div of I		0.110			g No	Well Type	но			Re-Entry	(5.) Flare Line (6.) BOP Drill	s Performed		d & Degasser Line:	AL RT AL RT	1 _		
16DRL0 Signature Of		Representative						35	Of Contractor's	Rig Manager					Rig Ra	09-Dec-	2016	1	18:00		(2.) CAODC F (3.) Mast Insp	Health & Safety Rig Safety Inspe pection before R aver Checked	ection Check	klist (one/rig/month	h) RT	1	\mathbb{N}	
ALLEN I Code	LUNGA	L 2	3	4	5	6	7	ROD T	OMPKIN 9	s 10	11	12	13	14	15	16	17	18	19	20	(5.) Motor Kill 21	is Checked	23	24	25		Kelly Bushing	Op Fuel 4439
	Rig Up	Drill Actual	Reaming	Coring	Cond Muc & Circ	-	Rig Service	Repair Rig	Cut Off Drilg Line	Dev Survey	Wireline Logs	Run Csg & Cement	Wait On Cement	Nipple BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fishing	Dir Work	Safety Meeting	Tear Down	Waiting On	g Rig Watch	Other	TOTAL	FUEL @	08:00 HRS
Tour 1		5.50	-		2.00	-	0.25														0.25			_		8.00	Time 06:00 Current Condit	-22
Tour 3																				3.75						4.00	OVERCAS Wind Direction N Road Condition	ST Wind Strength UP TO 19 KM/H
		10.50				5 4.75 LOEW														3.75	0.50			STAD	ттіме О	24.00	FAIR END TIME	8:00
BITS				RILLING A				ECORD				DEVIATIO	N SURVEY	'S				TIME L	.0G					STAN	U	.00	ENDTIME	0.00
	Number	3	No	Comp		0D ID Ler 200 1 0.:	gth 27	Mud T	ype Water Other	□᠃₫		Time	Depth 5 2000.3	Deviat	ion D 3.20	Nirection 104.9	Туре		To Elaps	ed Code			Detai	ils Of Operat	ions In Sec	quance & Re	marks	
IAI	Size DC Code	200		6.5" MOTOR	7/8 5 STG	167 1 8.0 162 72 1.1	52 Time		-	\square			5 2009.9 0 2019.6).20 .80	103.6 103.8												
Manu	ufacturer Type	HALLIBUR			FLEX MONEL	163 72 9.:	Eluid Lo	/iscosity ss																				
5	Serial No	128600	043 1	6.5"UBH	IO SUB	156 65 0.	2 Location	o Of Sample				SOLIDS CO	ONTROL															
	Jets	7.9 7.9 7 7.9 7.9	1	6.5" HYD/ME	CH JARS	163 72 27 157 58 5.3	BO PVT					Equipment Name	Hours Run	i Int Der		Over Flow Density	Under Flow Density											
	n Out (m) ith In (m)	1705.0		X/O S 3 4.5" H		135 58 0.1 114 73 44	Circula		ner Size S		Hrs Run																	
Total D		335.0					Pump#		ner Size S		0.00	MUD MATI	ERIALS A	DDED														
Hrs Ru Cumulative		5.50 31.7		B Drill Pipe	s	tands 1543.5	2 10	COMBINED 1	127 7	8 15000	8.00		Produc			Amount	Туре											
Er CUTTING	ntry Date	15-Dec-2	2016 0	Drill Pipe Kelly Down	Si	ngles 0.0 -2.4	Remark	5		_																		
TO MDC		ODC Reson Puled		Total Weight of DC		2042.0	0																					LARE AND PECT BOP
	RILLED		10.55	Weight of String			REDU	CED PUMP	SPEED									TOP I	DRIVE, D	RAWW	ORKS,	DRILL I	LINE A	AND DRII	LL LINÉ	ANCHO	R. HAZAR	COLLARS
From	To I	D-R-C RPM	WOB	Hole Drag	Up	-	6 Pump 1	4060	œ	Strokes/mir 69 @	1928.00	BOILER	lo Hoi	IrsRun	pH	St	ackTemp	PIN		OUT O	N TONG	S THAT	THOL	D THE TO	ong tie	E IN PLA	CE. REPL	ACED ROLL
				Torque At Fill On	-	750	0 2	4040	@	69 @	1928.00	Dolleri		arsivun	рп		ackreinp		R OPERATIO		ety Topic			87	MEHL	35		ACP
то	UR	2 51	GNATURE O	FDRILLER	RYAN	NEWT	ON																	STAR	TTIME 8	:00	END TIME	20:00
BITS	Number	3	D.	Comp	onent	OD ID Ler	gth	ECORD Mud T	ype Water	□ °' 1		DEVIATIO Time	Depth	S Deviat	ion D	lirection	Туре	TIME L	OG To Elaps	ed Code			Detai	ils Of Operat	ions In Sec	quance & Re	marks	
	Size DC Code	200		200MI		200 1 0.: 167 1 8.0			Other																			
	ufacturer	HALLIBUR	TON 1	6.5" NON MA		162 72 1.1 163 72 9.1	Funnel V	/iscosity																				
	Type Serial No	MMD6/ 128600		6.5" GAI		163 1 1.0		ss of Sample																				
	Jets	7.9 7.9 7 7.9 7.9	.9 _{7.9} 3		FLEX MONEL	163 72 27 157 58 5.	33 Depth					Equipment Name	Hours Run	i Int		Over Flow Density	Under Flow Density											
Depth	n Out (m)	2083.0	00 1	X/O S 4.5" H	UB	135 58 0.1 114 73 44		ation				Centrifuge #	1 4	.00	1200	1140	1960											
Dep Total Di	rilled (m)	1705.0 378.0				114 / J 4	Pump #		ner Size S		Hrs Run																	
Hrs Ru Cumulative	ın Today Hrs Run	5.00 36.7	-	1 Drill Pipe		tands 1572	2			3 18900 3 18900		MUD MATI	ERIALS AI Produc			Amount	Туре											
	ntry Date	15-Dec-2				ingles 9.3	6 Remark	5																				
TI TO MDC		Gage ODC Respon Pulled		Total		0.0 2083.0	-																					LARE AND
LOC BRG		Total Run (m/hr)	10.29	Weight of DC	2		DEDIV											AND	ALL WE	LL CÓN	ITROL E	EQUIPM	IENT II		SLIPS,	TONGS	3&V, DOG	COLLARS
From	To I	D-R-C RPM	WOB HO	Hole Drag		2 Down	3 Pump	# Pres 6048	sure	Strokes/mir 73 @		BOILER																
				Torque At Fill On		320		6048		73 @ @		BoilerN	lo Hoi	ursRun	pH	Sta	ackTemp	SAFETY		Sat	ety Topic			90	MEHL	29		ACP
то	UR	3 ദ	GNATURE O	FDRILLER	DAVE	LOEW	EN																	STAR	TTIME 20			24:00
BITS	Number	4	D	Comp		OD ID Ler		ECORD Mud T	ype Water	□ °' √		DEVIATIO	Depth	S Deviat	ion D	lirection	Туре	TIME L From	OG To Elaps	ed Code			Detai	ils Of Operat	ions In Sec	quance & Re	marks	
	Size	159		159MI			21		Other																			
	DC Code ufacturer	REEI	-40	8 STAGE	MOTOR		2 Density	/iscosity		+																		
	Type Serial No	SK413M-A E2289	11GZ 1	GAP SUB	3 GS509		Fluid Lo	SS																				
	Jets	9.5 9.5	1	SLIDE RE	EAMER	121 58 1.	13 Depth	of Sample	-	+		SOLIDS CO	Hours	Int	ake C	Over Flow	Under Flow											
Depth	n Out (m)	9.5 9.5	1	2 _{CROSSOV}	RS	130 60 1. 130 58 5.	20 0: 1	ation	1			Name	Run	Der	isity	Density	Density			\square								
Dep Total Di	ith In (m) rilled (m)	2083.0 0.00		CROSSOV	ATOR	130 60 1.1 124 68 7.4	56 Pump#		ner Size S	PM Pressure	Hrs Run			—														
Hrs Ru	ın Today	0.00		CROSSOV		130 60 0. ⁻		\vdash	+	+	╞──╿	MUD MATI	ERIALS AD Produc			Amount	Туре											
	ntry Date	0.00 17-Dec-2		Drill Pipe Drill Pipe		tands 2009.7		5										E										
CUTTING TI TO	STRUC 2 4	Gage	0 FC	Kelly Down		0.0 2078.1	0											Remar		ROWNS	AVER	HIGH/LC	OW TR	AVEL ST	TOPS/LI	IMITS. IN	SPECT FI	LARE AND
MDC LOC BRG	BT S	Rasson Pulled	BHA 10.29	Weight of DC	- -													DEG/	ASSER L ALL WE	INES,F	UNCTIO	N CHO	KES A	ND FLA	RE STA SLIPS,	CK IGNI TONGS I	TOR. INSF 3&V, DOG	COLLARS
METRES D		D-R-C RPM	<u> WOB</u> НО	DLE COND		Down	REDUC Pump	# Pres	sure	Strokes/mir		BOILER												ND DRII			R. HAZAR G BHA	ID-
Ħ	-		Ħ	Torque At	_	Jown			8	8			lo Hoi	ursRun	pН	Sta	ackTemp				ety Topic				MEHL		M	ACP
				Fill On	Bottom				@	@				-				HANDL	ING DIRECT									

			ED			CUMMA					Tour Sheet Serie	al Number		Vender Se	oftware Versio			Year	r	Month	Day	DAILY C	HECKS				OP RN		Pac	le 1 of	6
License No 32574	Well Nan	RES HZ S					χı				PREC Surface Location 11-34-81-1	465_20161 8 W6	1218_1A	Pro	w	016.6.14.3	Unique W	20 al 1d -35-081	016	12	18	(2.) Detailed (3.) H2S Sign	Ik Around Inspe Inspection - We is Posted if Rec	eekly (Usi quired		ist)	AL RT	H (CA	D	c)
Operator ARC Resour			eptime	3111-34	-01-10	10				lling, div of		0110		Rig 46	No	Well Type	HOP		1-10113		Re-Entry	(5.) Flare Lin (6.) BOP Dril				sser Lines	AL RI AL RT	-			_
Operator's AFE 16DRL0083 Signature Of Operat	itor's Representa	tive						35	or's Job No	or's Rig Manager					Spud D	09-Dec-	2016	1	18	:00		(2.) CAODC (3.) Mast Ins	Health & Safety Rig Safety Insp section before F	pection Ch	ecklist (one	nonth) s/rig/month)	RT	1)'	
ALLEN LUN Code		2	3	4	5	6	7	ROD 8	ГОМРКІ 9		11	12	13	14	15	16	17	18	19)	20	(4.) Crown S (5.) Motor Kil 21	s Checked	2	3	24	<u>RT</u> 25		Kelly Bushing	0p1	Fuer 078
F L		.25	aming	Coring	Cond M & Cire 0.5	-	Rig Service	Repair Rig	Cut O Drilg Li	ff Dev Survey	Wireline Logs	Run Csg & Cement	Wait On Cement	Nipple BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fish	ing	Dir Work	Safety Meeting 0.50	Tear Down	Wai O	ting n	Rig Watch	Other	тота 8.0	Rig	L @ 08:0	
Tour 2	7	.50			4.0	0	0.25	-	-													0.25						12.0) -2 Conditions	
Tour 3		.50 .25			1.0 5.5	-	0.25		0.7	75										_		0.25			+			24.0	The Based Co	ection Win UP ndition	nd Strength P TO 19 KM/H
TOUR	1		URE OF	DRILLER		E LOEW	-						ļ			1	1 1									START	тіме О	:00	END T	ME 8:0	00
BITS			DR	LLING A		OD ID La	MUD	RECORD	_			DEVIATION Time	Depth	S		Direction	Type	TIME L													
Bit Numb		4 159		159MM	N BIT	159 1 0.		Muu	Oth	ter Oil 🗹 her		06:45	i 2081.6	5 83	.60	104.2 102.3	1924	From 0:00 1:00		1.00	6A	TRIP IN HO SAFETY N		58M, I	FILL PI	PE		quance &	VIEWED C	TA 4-1	
IADC Co Manufactu		EED	- 1	NEAR BIT I	MOTOR	t 127 1 9.	12 Density	Viscosity	06:30 1190 65				2096.2		.50	102.7		1:15	2:00	0.75	ŀ		AMIC BF	RAKE					PERFORM		
Ту	ype SK41	3M-A1G	<u>z</u> 1	NON MAG FL	GS509	128 1 1.	49 Fluid L 64 pH		65					-							6A	TRIP IN HO	DLE, FLO BOTTO	W CH M.					RY 500M, 1	VASH LA	ST
Serial J	Jets 9.5 9	28924	1	NON MAG FL	AMER	121 58 1.	43 Depth	n Of Sample	2092.0			SOLIDS CO	Hours	Inta	ike (Over Flow	Under Flow	6:00 7:15 7:45	7:45	1.25 0.50 0.25	5	DRILL 159 ACCUMUL SAFETY N	ATED TI	ME W	ORKIN	g PIPE	AND CC	DNNECTI		REVIEW	/FD
Depth Out (9.5 9	.5		CROSSOVE		130 60 1. 130 58 5.	72 20 Circu	lation	75			Name	Run	Den	sity	Density	Density		0.00	0.20			E DRIVIN						ND PULLI		
Depth In (Total Drilled (83.00 2.00		CROSSOVE			56 41 Pump #	Type L		SPM Pressur				-																	
Hrs Run Tod	day 1	.25	1	CROSSOVE	ER SUB	130 60 0.	78 2	PARALLEL	127 1	104 2650	0 2.00	MUD MATE	RIALS AD			Amount	Туре														
Cumulative Hrs R Entry Di	Date 17-D	.25 ec-2016		Drill Pipe Drill Pipe		Stands 2126. Singles 0.0						BARITE				3	0 EACH														
	G	Sage DDC		Kelly Down Total		0.0	0											Remar FUN(own	SAVER	HIGH/I (ow t	RAVE	FL ST	OPS/I	IMITS	INSPECT	FLARE	
MDC LOC BRG	Rasson I Total Run	Puted (mbr) 33.60		Weight of DC			7											DEG/ AND	ASSE ALL \	r lin Neli	IES,F . COI	UNCTIC	ON CHO	KES	AND	FLAR ECT S	E STA	CK IGN	ITOR. IN B&V, D	ISPECT	T BOP
METRES DRILL From To 2083.00 2125.00	D-R-C	RPM WO	в		TION	2 Down	2 Pump		ssure	Strokes/m	in Depth	BOILER						тор	DRIVI	E, DR	AWV	VORKS,	DRILL	LINE	AND	DRIL	L LINE	ANCH	OR.		
	DIGE	30 11	1	Torque At I	- H	600	- 2	5140	@	52 @		BoilerN 1	8	IrsRun B.00	<u>рН</u> 10	Sta	ackTemp 340	SAFET				afety Topic					MEHL			MACP	
TOUR	2	SIGNAT	URE OF	Fill On I		N NEWT	ON		Q			2		8.00	10		340	DRIVIN	IG HOMI	ELONG	6 CHAN	IGE MORNI	NG			START	тіме 8	:00	END T	ME 20:	00
BITS			DR	LLING A	SSEME	OD ID La	MUD	RECORD	_			DEVIATION	N SURVEY	S		Direction		TIME L			O. da			De		0			0		
Bit Numb		4 159		159MM		159 1 0.		Mud	Oth	ter Oil 🗹			Depth 2110.9 2125.5	0 86	.70	100.4 98	Туре	From 8:00 8:15	To I 8:15 15:45	0.25	7	RIG SERV DRILL 159	ICE FUNC	CTION	LOWE	R PIPE		quance & 7 SEC TC			
IADC Co Manufactu		EED	-1	NEAR BIT I 8 STAGE	MOTOR	t 127 1 9.	12 Density	Viscosity	08:00 1190 65	10:1 118 64		09:30	2140.0	5 88	.10	95.4 92.5		15:45 19:45		4.00	·	TOOLFAC	E ORIEN	TATIO	N						
Ту	ype SK41	3M-A1G	<u>Z</u> 1	NON MAG FL	GS509	128 1 1.	49 Fluid L 64 pH	055				10:45	2169.2 2183.8	4 87	.80 .50	90.3 87.3				0.20		REPRESE									
Serial J	^{Jets} 9.5 9	.5	1	NON MAG FL	AMER	121 58 1.	43 Depth	n Of Sample	2125.0		AKERS 5.00	SOLIDS CO Equipment	Hours	Inta		Over Flow	Under Flow														
Depth Out (9.5 9	.5	1	CROSSOVE	٦S	130 60 1. 130 58 5.	72	lation		12		Name Centrifuge #	-		sity 1180 1180	Density 1090 1090	Density 1740 1740														
Depth In (Total Drilled (83.00)8.00	1		TOR		56 41 Pump /	Type L		SPM Pressur		Centrifuge #			1180	1050	1740														
Hrs Run Tod	day 7	7.50		CROSSOVE		130 60 0.	78 2	SINGLE	127 1	104 2650	0 12.00		ERIALS AD Product			Amount	Туре														
Entry Da	Date 17-D	8.75 ec-2016				Stands 2534. Singles 0.0	0 Remar	li s				BARITE CALCIUM LIME	CHLORID	ЭE		1	4 EACH 0 EACH 5 EACH														
	G	Sage CDC		Kelly Down Total		-1.8 2591.0	_					ENERTON	ONDARY				8 EACH												INSPECT		
MDC LOC BRG	Total Run	mht 58.06	; ,	Weight of DC		64.0						ENERMUL					1 EACH 1 EACH	AND	ALL \	NELL	. có			IENT	INSP	ECT S	SLIPS,	TONGS	ITOR. IN B&V, D		
METRES DRILL From To 2125.00 2591.00	D-R-C DRILL	RPM WO 50 10	BHO	ECOND	TTION Up	3 Down	5 Pump 2	CED PUM # Pre 5630	ssure	Strokes/mi		BOILER						IUF	DRIVI	E, DR		vorna,	DRILL		AND	DRIL		ANCH	UK.		
				Torque At I Fill On I	-	910			9 @ @	52 @	2	BoilerN 1 2		1rsRun 2.00 2.00	pH 10.5 10.5	5	ackTemp 340 340	SAFET	Y CK CON	NECTI		afety Topic					MEHL			MACP	
TOUR	3	SIGNAT	URE OF	DRILLER	ERIC	OBRI	EN																			START	TIME 20	0:00	END T	ME 24:	00
BITIS Bit Numb	her	4	DR No	LLING A	SSEM:	OD ID Le	MUD	RECORD Mud	Type Wat	ter 🔲 Oil 🗹	•	DEVIATION Time	Depth	Deviati	on E	Direction	Туре	TIME From	To I	Elapsed	Code			Der	tails Of	Operatio	ons In See	quance &	Remarks		
s	Size	159		159MN NEAR BIT I					Oth	her		20:30	2576.8 2591.3	8 88	.70 .60	90.7 90.5					21A	CLOSE UF	PER PIP	OOWN E RAM	DRILL AS (7 S	HELD	WITH RI DS), WEL	G CREW	, OPEN HC RE IN 45 S COMPLETI	ECONDS,	, RIG
IADC Co Manufactu		EED	1	8 STAGE	MOTOR	127 1 9.	12 Density 49 Funnel	Viscosity	20:15 1170 57	23:3 117 56		21:00	2605.9 2620.5	1 88	.00 .50	91 92.2		22:45	23:45	1.00	5	DRILL 159 ACCUMUL	MM LATE ATED CO	ERAL ONNE	SECTIONS	ON FRO	WORKIN	M TO 279 IG PIPE,	01M ORIENTIN		
Ty Serial		3M-A1G 28924	<u>z</u> 1	GAP SUB	GS509		64 pH	oss In Of Sample	SHAK		AKER	21:30	2635.0 2648.9		.90 .30	90.8 91.4		23:45	24:00	0.25	7	RIG SERV	ICE, FUN	CTION	ANNU	JLAR (2	1 SECO	NDS TO	CLOSE)		
J		.5	1	SLIDE RE	AMER	121 58 1. 130 60 0.	43 Depth		2592.0 77			Equipment Name	Hours Run	Inta Den	ike (sity	Over Flow Density	Under Flow Density			_											
			5	4.5" D	Р	135 80 4 130 60 0	.67	lation				Centrifuge #	1 4.		1170	1060	1745														
Depth Out (00 00			auto			Type L	iner Size	SPM Pressur	re Hrs Run										_										
Depth Out (Depth In (Total Drilled ((m) 20 (m) 70	83.00)8.00	1	5" JAF	۲S	130 58 5.			127 1	104 2650	0 3.00			DED																	
Depth In ((m) 20 (m) 70 day 2		1		RS ER SUB P	130 60 0. 135 80 s	78 1 437 2	SINGLE		104 2650 104 2650		MUD MATE	ERIALS AD Product			Amount 8	Type 4 EACH														
Depth In (Total Drilled (Hrs Run Tod Cumulative Hrs R	(m) 200 (m) 70 day 2 Run 1 Date 17-D	08.00 2.50 1.25	1 57 5	5" JAF crossove 4.5" D	RS ER SUB P	130 60 0. 135 80 55 Stands 139.' Singles 9.2	78 1 437 2 15 9 Remar	SINGLE				BARITE ENERTON CALCIUM	Product	t		8	4 EACH 4 EACH 5 EACH														
Depth In (Total Drilled (Hrs Run Tod Cumulative Hrs R Entry Da	(m) 20 (m) 70 day 2 Run 1 Date 17-D	08.00 2.50 1.25	1 57 5	5" JAF CROSSOVE 4.5" D Drill Pipe Drill Pipe Kelly Down Total	RS ER SUB P	130 60 0. 135 80 55 Stands 139.	78 1 437 2 15 9 Remar 3	SINGLE				BARITE ENERTON CALCIUM LIME CES WET	Product	t		3	4 EACH 4 EACH 5 EACH 0 EACH 1 EACH				OWN	SAVER	UPPER	R/LOV	VERI	RAVE	EL STO	OPS & I	LIMITS, M	ICWS, I)RILL
Depth In (Total Drilled (Hrs Run Tod Cumulative Hrs R Entry Di CUTTINCE STRT TO MCC LCC BRG	(m) 200 (m) 70 day 2 Run 1 17-D UCFIURE	08.00 2.50 1.25 ec-2016		5" JAF <u>CROSSOVE</u> 4.5" D Dell Pipe Dell Pipe Total Weight of DC teight of String	RS ER SUB P	130 60 0. 135 80 s Stands 139.° Singles 9.2 -8.5	20 78 1 437 2 15 9 Remar 3 0	SINGLE	127 1	104 2650		BARITE ENERTON CALCIUM LIME	Product IE-D CHLORID TER ONDARY	t		3	4 EACH 4 EACH 5 EACH 0 EACH	LINE	AND	DRIL RS, D	L LIN OG (NE ANCH	IOR, IN	ISPE	ст то	NGS	& LINE	ES, IRC	IMITS, M N ROUG K IGNIT	HNECK	(, SLIPS
Depth In (Total Drilled (Hrs Run Tod Cumulative Hrs R Entry Da CUTTINCESTRU TO MCC LCC	(m) 200 (m) 700 day 2 Run 1 Date 17-D UCTURE	08.00 2.50 1.25 ec-2016		5" JAF <u>CROSSOVE</u> 4.5" D Drill Pipe Drill Pipe Kelly Down Total Weight of DC		130 60 0. 135 80 s Standa 139. Singles 9.2 -8.5 2791.0	20 78 1 15 9 8 Remar 0 0 7 7 2	SINGLE SINGLE SINGLE S S	PSPEEr ssure D @	104 2650	0 0.50	BARITE ENERTON CALCIUM LIME CES WET CES SECO ENERMUL BOILER	Product IE-D CHLORID TER ONDARY	E		3	4 EACH 4 EACH 5 EACH 0 EACH 1 EACH 1 EACH	LINE	AND ATO VES A	DRIL RS, D	L LIN OG (NE ANCH	IOR, IN	ISPE	ст то	NGS	& LINE	ES, IRC	N ROUG	HNECK	(, SLIPS

											four Sheet Seria	(Number		Vender Si	oftware Version			Year	Month	Day	DAILYO				00.01		Page 2	of 6
License No	٧	Vell Name				SUMMAR	łΥ			S	Surface Location	465_20161	1218_1A	Pio	w	Loc Type	Unique W	2016	12	2 18	(2.) Detailed	lk Around Inspe	ekly (Using Ch	eck List)	AL RT		CAD	
32574 Operator ARC Res		RCRES H	Z Septim	us H11-3	4-81-1	8W6		Contractor	ion Drillin		<u>1-34-81-1</u>	8 W6		BC Rig 46	No	DLS Well Type	102/09 HOI)-35-081-18W RIZ	5	Re-Entry	(4.) Well Lice (5.) Flare Line (6.) BOP Drill	nce & Stick Dia es Staked Is Performed	igram Posted		AL RT			
Operator's AFE	E							Contractor 35		<u>g, uiv oi i</u>	00			140	Spud Da	te Time 09-Dec-			8:00		(1.) Rig Site I (2.) CAODC	Health & Safety Rig Safety Insp	s-Flare Lines & Meeting (one/c ection Checklisi	crew/month) t (one/rig/month	RT			
Signature Of C		resentative							Df Contractor's R						Rig Rel	ease Date Time		1			(5.) Motor Kill	Is Checked	Raising or Lowe		RT		Celly Bushing	Op Fuel
Code	1 Rig Up	2 Drill Actual	3 Reaming	4 Coring	Cond I & Ci		Rig Service	8 Repair Rig	9 Cut Off Drilg Line	Dev Survey	11 Wireline Logs	Run Csg & Cement	13 Wait On Cement	Nipple BOP	Test BOP	Drillstem Test	Plug Back		19 shing	20 Dir Work	21 Safety Meeting	Tear Down	23 Waiting On	Rig Watch	25 Other		FUEL @	4078 08:00 HRS
Tour 1	Up	1.25			-	¹⁰ 50 5.00	Service	Rig	0.75	Survey	Logs	& Cement	Cement	RON	ROb	lest	Back	Cement		Work	0.50		On	Watch	-	TOTAL 8.00	6g 18971 Time	Boller 9636 Temp
Cour 2		7.50			4.(_	0.25														0.25					12.00	06:00 Current Condition PARTLY C	-2 LOUDY
		2.50			1.0	00 50 5.00	0.25		0.75												0.25	-				4.00 24.00	Wind Direction E Road Condition	Wind Strength UP TO 19 KM/H
TOTAL	ur 1	-	NATURE O		-	E LOEW			0.75												1.00			STAR		24.00 0:00		8:00
BITS		0.0		RILLING A		-		ECORD					N SURVEYS					TIME LOG										0.00
Bit I	Number	4	No	Comp 159M	ponent	OD ID Len	gth		ype Water	שיים		Time	Depth	Deviatio	on D	irection	Туре	From To	Elapse	ed Code			Details	Of Operat	ions In Se	quance & Rer	narks	
IAD	Size DC Code	159		NEAR BIT	INC SUE	3 135 1 1.0	04 Time		Other																			
Manut	facturer	REEL	$\frac{1}{1}$	8 STAGE			Funnel V	/iscosity			-																	
s		K413M-A		GAP SU		70	рн																					
-		.5 9.5	1	SLIDE R	EAMER	121 58 1.4	99 Location 13 Depth PVT	of Sample				Equipment	Hours	Inta		ver Flow	Under Flow			++								
Depth		.5 9.5		CROSSOV		130 60 1.7 130 58 5.2	20					Name	Run	Den	sity	Density	Density			+								
	th In (m)	2083.0	1	AGIT					ner Size SPI	A Pressure	Hrs Run																	
Total Dri Hrs Rur		42.00	. –	CROSSOV				PARALLEL 1	27 10	4 26500	2.00	MUD MATI	ERIALS AD	DED														
Cumulative H	Hrs Run	1.25		Drill Pipe		Stands 2126.0	0	$\left \right $		+	╞──┣		Product			Amount	Туре			+								
Ent CUTTING S		7-Dec-2	016 0	Drill Pipe Kelly Dow	•	Singles 0.0	0 Remarks	5												+								
TI TO MDC		Gage ODC		Tota		2184.5	-																				SPECT FL	
LOC BRG	_	Total Run (m/hr)	3.60	Weight of DO	a 0													AND ALL	WEL	LL CÓN	ITROL E	EQUIPM	IENT IN	SPECT	SLIPS,	TONGS B		ECT BOP COLLARS
METRES DF	RILLED To D-I	R-C RPM	WOB HO			2 Down	Pump	# Pres		trokes/mir	n Depth							TOP DRI	/E, D	RAWW	ORKS,	DRILL		ND DRIL		ANCHOR	ε.	
				Hole Drag Torque At	up t Bottom	2 Down 600	- 2	5140	8	52 @		Boiller	lo Hou	rsRun	рH	Sta	ackTemp	SAFETY		Sal	etv Topic				MEHI		MA	CP
	ur 2			Fill On					Ø	@								DRIVING HO	IE LOI			NG			0		END TIME	
TOL		sio		F DRILLER		N NEWT												I						STAR	C EMIL	6:00	ENDITIME	20.00
BITS Bit I	Number	4	No	Comp	ponent	OD ID Len	gth	ECORD Mud T	ype Water	_ 01 🗹		Time	Depth	Deviatio		irection	Type	TIME LOG From To	Elapse	ed Code			Details	Of Operat	ions In Se	quance & Rer	narks	
	Size	159		159M					Other	\neg			2198.5 2213.1		.70 .10	86.4 86.9												
IAD Manut	DC Code	REEL		8 STAGE	мото	R 127 1 9.1	2 Density	/iscosity	1160 62				2227.7		.80	88.2 89.7												
		K413M-A	1GZ 1	GAP SU		9 128 1 1.6	19						2256.8 2271.4		.50	88.5 91.2												
S	-	E2289		NON MAG F			Death	o Of Sample	SHAKER 2393.00	S		SOLIDS CO	ONTROL		,													
		.5 9.5	2	CROSSON	ER SUB	130 60 1.7			74			Equipment Name	Hours Run	Inta Den		Density	Under Flow Density 1740											
Depth Depti		2083.0	0 2	CROSSOV	ER SUB		Circula 56					Centrifuge #			1180	1090 1090	1740											
Total Dri	illed (m)	508.0	0 1	CROSSOV					er Size SPI	4 26500	Hrs Run		ERIALS AD	DED														
Hrs Rur Cumulative H		7.50 8.75		Drill Pipe				UNICLE					Product			Amount	Туре											
Ent		7-Dec-2		Drill Pipe	-	Singles 0.0	0 Remarks	5							+													
TI TO	STRUCTU	Gage ODC		Kelly Dow	n 2	-1.8 2591.0									-			Remarks FUNCTIC			AVER	HIGH/LO		VEL ST	TOPS/L	IMITS, IN	SPECT FL	ARE AND
MDC LOC BRG		Rasson Puled Total Run (m/hr)	58.06	Weight of DO		64.0												DEGASS	ER L	INES,F	UNCTIC	ON CHO	KES AN	ID FLAI	RE STA	CK IGNIT	OR. INSPI	
METRES DF	RILLED To D-I	R-C RPM					REDUC	# Pres		trokes/mir	n Depth							TOP DRIV	/E, D	RAWW	ORKS,	DRILL	LINE AN	ND DRIL	LL LINÉ	ANCHOR	R	
E				Hole Drag Torque At	Up t Bottom	3 Down 910	2 2	5630		52 @ @	2300.00	BOILER BoilerN	lo Hou	rsRun	pН	Sta	ackTemp	SAFETY		-								CD.
				Fill On		0.000			@	0								DERRICK CC	NNEC	TIONS	ety Topic				MEHL	0.00	MA	
TOL	ur 3	SIC	SNATURE O			C OBRI																		STAR	TTIME 2	0:00	END TIME	24:00
BITS Bit I	Number	4	DF No	Comp		OD ID Len	gth	ECORD Mud T	ype Water	_ 01 🕅		Time	Depth	Deviatio		irection	Туре	TIME LOG From To	Elapse	ed Code			Details	Of Operat	ions In Se	quance & Rer	narks	
	Size	159		159M					Other	<u> </u>	-		2662.8 2676.7		.50 .80	91 90.1				++								
IAD Manut	DC Code	REE	<u>+</u> [1	8 STAGE	мото	R 127 1 9.1	2 Density	/iscosity		+			2690.7		.00 .10	91.3 91.6				+								
	Type S	K413M-A	1GZ 1	NON MAG F	B GS50	9 128 1 1.6	Fluid Lo		-	+		23:00	2718.5	3 92	.40	91.2 89.6				+								
S		E2289	24 2	NON MAG F	LEX MONE	EL 118 70 18.		o Of Sample		+		SOLIDS CO	ONTROL															
	9	.5 9.5	1	CROSSOV	/ER SUB	130 60 0.9	94 PVT					Equipment Name	Hours Run	Inta Den		Density	Under Flow Density 1745			$+ \uparrow$								
Depth Depti		2083.0	0 1	CROSSOV	/ER SUB	135 80 48. 130 60 0.7	78 Circula					Centrifuge #	1 4.	00	11/0	1060	1745			++								
Total Dri	illed (m)	708.0	<u>~</u> 1	5" JA crossov	RS	130 58 5.2			er Size SPI	_			ERIALS AD	DED						++								
Hrs Rur Cumulative H	- i-	2.50	57	4.5" C)P	135 80 554	" 2		27 10			and Sentral	Product			Amount	Туре		L									
Ent	try Date 1	7-Dec-2		Drill Pipe		Singles 9.2	9 Remarks	5																				
CUTTING S TI TO	STRUCTU	Gage ODC		Kelly Dow	n M	-8.5 2791.0					ŀ				+			Remarks	N CF		SAVER	UPPEP		RTRAV	EL STO	PS & I IN	IITS, MCW	S. DRILL
MDC LOC BRG		Rasson Pulled Total Run (m/hr)	52.93	Weight of DO		67.0					ŀ				+			LINE ANI	DRI	ILL LIN	E ANCH	10R, IN	SPECT	TONGS	5 & LINI	ES, IRON	ROUGHNI	ECK, SLIPS
METRES DR		R-C RPM	WOB HO	DLE COND			REDUC	# Pres		trokes/mir	Dopth							VALVES				,						
				Hole Drag Torque At	Up t Bottom	5 Down 950	2	# Pres 5870 5980	œ	52 @	2562.00	BOILER BoilerN	lo Hou	rsRun	pH	Sta	ackTemp	SAFETY										
		-		Fill On	- H	500		2980	@ @	52 @								SOUR BOP D	RILL	Sat	ety Topic			74	MEHL	352	MA	CP

											Tour Sheet Seria	al Number		Vender S	oftware Versio	1		Year	Month	Day	DAILYO				00.04		age 3 of 6
License No	1	Vell Name				E SUMMAR	łΥ				Surface Location	465_2016	1218_1A	Pro	av.	016.6.14.	Unique V	2016		2 18	(2.) Detailed I	lk Around Inspe	ekly (Using Cha	ack List)	AL RT		d DC
32574 Operator ARC Re:		ARCRES H	IZ Septim	us H11-3	84-81-1	18W6		Contractor	ion Drillin		11-34-81-1	8 W6		BC Rig 46) No	DLS Well Type	102/09 HO	9-35-081-1	8W5	Re-Entry	(4.) Well Lice (5.) Flare Line (6.) BOP Drill	nce & Stick Dia as Staked is Performed	gram Posted		AL RT		
Operator's AP	Έ	Lta.						Contractor 35	ion Drillin 's Job No	g, aiv or	PDC			140	Spud D	ate Time 09-Dec-			18:00		(1.) Rig Site H (2.) CAODC R	Health & Safety Rig Safety Insp	-Flare Lines & I Meeting (one/c ection Checklist	rew/month) (one/rig/month	s AL RT		
Signature Of	Operator's Rep	presentative						Signature	Of Contractor's F	Rig Manager					Rig Re	lease Date Time		1			(3.) Mast Insp (4.) Crown Sa (5.) Motor Kill	section before F aver Checked	Raising or Lowe	ring	RT		
Code	1 Rig	2 Drill	3	4 Coring		5 6	7 Pig	8 Repair	9 Cut Off	10	11 WireEne	12 Run Cea	13 Wait On	14	15 Test	16 Drilletern	17 Plug	18 Scueeze	19 Fishing	20 Dir	21 Safaty	22 Tear	28 Waiting	24 Rig	25 Other	Kelly Bus	4078 IEL @ 08:00 HRS
	Rig Up	Drill Actual	rouaning	Coning	-	.50 5.00	Rig Service	Repair Rig	Drilg Line 0.75	Dev Survey	Wireline Logs	Run Csg & Cement	Wait On Cement	Nipple BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	1 Janing	Dir Work	Safety Meeting 0.50	Tear Down	Waiting On	Rig Watch	- Conta	TOTAL Reg 8.00	Boiler 9636
Tour 1		7.50			-	.00	0.25														0.25					12.00 # 06	-2 Int Conditions RTLY CLOUDY
Tour 3		2.50			-	.00	0.25		0.75												0.25						UP TO 19 KM/I Condition
TOTAL	ur 1	11.25				.50 5.00 VE LOEW			0.75												1.00			START		24.00 EN	IR DTIME 8:00
BITS	UR	SI		RILLING A		-		ECORD					N SURVEY	•										STAR	UIME	.00	8.00
	Number	4	No	Comp	ponent	OD ID Len	gth		ype Water	_ ₀ ₹		Time	Depth	Deviati	ion E	irection	Type	TIME LOO From T		ed Code			Details	Of Operati	ions In Sec	quance & Remarks	
	Size DC Code	159		159M					Other										-								
Manu	Ifacturer	REEI)	8 STAGE			2 Density	/iscosity																			
		K413M-A	1GZ 1	GAP SU	B GS5	09 128 1 1.6	54 pH								_												
		.5 9.5	1	SLIDE R	EAME	R 121 58 1.4	99 Location 13 Depth PVT	of Sample				SOLIDS C	ONTROL	Inta	ike (over Flow	Under Flow		+								
Dentk	9 Out (m)	.5 9.5		CROSSON		в 130 60 1.7 130 58 5.2	72					Name	Run	Den	isity	Density	Density		-								
	th In (m)	2083.0				в 130 60 1.5	56 Circula		ner Size SPI	M Pressure	e Hrs Run																
Total Di Hrs Ru		42.00	2	CROSSOV					27 10	4 26500	2.00	MUD MAT	ERIALS AD	DED													
Cumulative	Hrs Run	1.25	71	Drill Pipe		Stands 2126.0	00		_	_	┼─┨		Product			Amount	Туре		+	++							
Er CUTTING		7-Dec-2	016 0	Drill Pipe Kelly Dow	n	Singles 0.0	0 Remark	5																			
TI TO MDC		Gage ODC Reason Puled		Tota	a 🗌	2184.5	-																				CT FLARE AND
LOC		Total Run (m/hr)	33.60	Weight of DO	с 19												-	AND A	LL WE	LL CÓN	ITROL E	QUIPM	IENT IN	SPECT	SLIPS,	TONGS B&V,	INSPECT BOP DOG COLLARS
METRES D	RILLED To D-I	R-C RPM	WOB HO	Hole Drag			Pump	# Pres	sure S	Strokes/mi	n Depth	BOILER						TOP D	RIVE, L	RAWN	ORKS,	DRILL			L LINE	ANCHOR.	
				Torque At	it Bottom	600	- 2	5140	@ @	52 @		Boiler	No Hou	ırsRun	рH	Sta	ackTemp	SAFETY		Sa	fetv Topic				MEHL		MACP
то	ur 2			Fill On		AN NEWT			œ	@								DRIVING H	HOME LO	NG CHAN	GE MORNI	NG		STARI	8	:00 EN	DTIME 20:00
				RILLING A				ECORD					N SURVEY	•				TINELO						START	0	.00	20.00
BITS	Number	4	No	Comp	ponent	OD ID Len	gth		ype Water	_ ₀ ₹		Time	Depth	Deviati	on E	irection 90.7	Type	TIME LOO From T	o Elaps	ed Code			Details	Of Operati	ions In Sec	quance & Remarks	
	Size DC Code	159		159M					Other			14:30	5 2285.8 0 2300.4	3 91	.40	90.4			-								
	Ifacturer	REEI		8 STAGE	Е МОТО	OR 127 1 9.1		/iscosity					2315.0 5 2329.6		.20 .50	90.3 90.5											
	E H	K413M-A	1GZ 1	GAP SUE	B GS5	09 128 1 1.6	54 pH						5 2344.2 0 2373.0		0.90 6.50	89.6 89.2											
		.5 9.5	1	SLIDE R	EAME	R 121 58 1.4	13 Depth	of Sample				SOLIDS C	ONTROL	Inta	ake (Over Flow	Under Flow		_								
Denth	9 Out (m)	.5 9.5		CROSSOV		в 130 60 1.7 130 58 5.2	20					Name Centrifuge /	Run 11 6.	.00		Density 1090	Density 1740		-								
	th In (m)	2083.0				в 130 60 1.5	Circula 56		ner Size SPI	M Pressure	e Hrs Run	Centrifuge I	v2 5.	.00	1180	1090	1740										
Total Di Hrs Ri	rilled (m) In Today	508.0 7.50	0	CROSSOV			*1		27 10	4 26500	0 12.00	MUD MAT	ERIALS AD	DED													
Cumulative	- i-	8.75		Drill Pipe		Stands 2534.2	24						Product	t		Amount	Туре		+								
Er CUTTING		7-Dec-2	016 0	Drill Pipe Kelly Dow	n	Singles 0.0		B											-								
TI TO MDC		Gage ODC Reason Pulled		Tota		2591.0											-										CT FLARE AND
LOC BRG		Total Run (m/hr)	58.06	Weight of DO	9 9	64.0	0										-	AND A	LL WE	LL COM	ITROL E	EQUIPM	IENT IN	SPECT	SLIPS,		INSPECT BOP DOG COLLARS
METRES D From	RILLED To D-I	R-C RPM	WOB HO	Hole Drag	DITION Up		5 Pump		sure S	Strokes/mi		BOILER							11VE, L		JORKS,	DRILL				ANCHOR.	
				Torque At		910	- 2	5630	@	52 @ @	2300.00		No Hou	ırsRun	рH	Sta	ackTemp			Sa	fety Topic				MEHL		MACP
то	ur 3	si	GNATURE O	Fill On			EN	1	æ	0								DERRICK	CONNEC	IONS				START	TTIME 20):00 en	DTIME 24:00
BITS				RILLING A				ECORD				DEVIATIO	N SURVEY	s				TIME LO	G								~~
	Number	4	No	Comp 159M	ponent	OD ID Len	gth		ype Water	⊐⊶⊠		Time	Depth 2746.3	Deviati	on E	irection 88.9	Type	From T		ed Code			Details	Of Operati	ions In Sec	uance & Remarks	
IAI	Size DC Code	159	-12	NEAR BIT	INC SU	JB 135 1 1.0	04 Time		Other				5 2760.3 2760.3	1 92	2.60	88.8 88.8				\square							
	Ifacturer	REEI	2 [1	8 STAGE		NEL 118 70 9.4	19 Funnel V	/iscosity					2100.3	. 92		00.0			\pm	\pm							
5		K413M-A	1GZ 1	GAP SUE NON MAG F	B GS5	09 128 1 1.6	Fluid Lo	ss n Of Sample	-										+	+							
	Jets 9	.5 9.5	1	SLIDE R	EAME	R 121 58 1.4	13 Depth	. J. Janpie		-		Equipment	Hours	Inta		Over Flow	Under Flow		1								
Depth	9 Out (m)	.5 9.5		CROSSOV	DP	135 80 48.	67	ation	1			Name Centrifuge I	Run 11 4.	.00	1170	Density 1060	Density 1745		\square	\square							
	th In (m)	2083.0		CROSSOV		B 130 60 0.1	78		ner Size SP1	M Pressure	e Hrs Run			+						+							
Total Dı Hrs Ru		708.0	0 1	CROSSOV	VER SU	в 130 60 0.7	78 1		27 10			MUD MAT	ERIALS AD				-		+	+							
Cumulative	Hrs Run	11.2	5 5	Drill Pipe	JP	135 80 554 Stands 139.1		SINGLE	27 10	4 26500	0.50		Product	t		Amount	Туре		+	+							
Er CUTTING		7-Dec-2	016 1	Drill Pipe Kelly Dow	n	Singles 9.2	Remark	5									-										
TI TO MDC	=	Gage ODC Rasson Puled		Tota Weight of DO	<u> </u>	2791.0												Remarks		ROWN	SAVER		LOWE		EL STO		MCWS, DRILL
LOC BRG		Total Run (m/hr)	52.93	Weight of Strine	9	67.0											-		TORS,	DOG C	OLLAR						TOR, MANIFOLI
From		R-C RPM	WOB HO	Hole Drag			7 Pump		isure S	Strokes/mi		BOILER															
\square	-			Torque At	t Bottom	950	- 2	5870 5980	®	52 @ 52 @	2650.00		No Hou	ırsRun	рH	Sta	ackTemp			Sa	fety Topic				MEHL		MACP
				Fill On	n Bottom				@	@								SOUR BO	P DRILL					74		3528	

_										1	our Sheet Serie	il Number		Vender Sc	ftware Version			Year	Month	Day	DAILY C	HECKS			OP RM		Page 4	of 6
License No		/ell Name				SUMMAR	Y			5	iurface Location	465_20161	218_1A	Pro	v	Loc Type	Unique W	2016 el Id		2 18	(1.) Daily Wal (2.) Detailed I	k Around Inspe	ekly (Using Cha	ack List)	AL RT		CAO	DC
32574 Operator ARC Res			IZ Septim	us H11-34	4-81-18V	V6		Contractor	ion Drillin		<u>1-34-81-1</u> PDC	8 W6		BC Rig 46	No	DLS Well Type	102/09 HOI	-35-081-18	8W5	Re-Entry	(4.) Well Lice (5.) Flare Line (6.) BOP Drill	nce & Stick Dia Is Staked s Performed	gram Posted		AL RT			
Operator's AF	FE 083							Contractor	's Job No						Spud Da	te Time 09-Dec-		1	18:00		(1.) Rig Site H	lealth & Safety	Flare Lines & I Meeting (one/c ection Checklist	rew/month)	RT			
Signature Of	LUNGAL	resentative	-					ROD T	Df Contractor's R						Rig Rei	ase Date Time					(5.) Motor Kill	s Checked	Raising or Lowe		RT		Kelly Bushing	Op Fuel
Code	1 Rig Up	2 Drill Actual	3 Reaming	4 Coring	5 Cond Mu & Circ	d Trips	Rig Service	8 Repair Rig	Cut Off Drilg Line	10 Dev Suprev	11 Wireline Logs	Run Csg & Cement	13 Wait On Cement	Nipple BOP	Test BOP	16 Drillstem Test	Plug Back	18 Squeeze Cement	19 Fishing	20 Dir Work	Safety Meeting	Tear Down	28 Waiting On	Rig Watch	25 Other	TOTAL	FUEL @	4078 08:00 HRS
Tour 1	οp	1.25			0.50	_	Gerrice	lug	0.75	ourty	Loga	d Coman	Conten	501	501	1031	Duth	Conten		Wuik	0.50	Down	0.1	Truch		TOTAL 8.00	Rig 18971	9636 Temp
Se Tour 2		7.50			4.00	-	0.25														0.25					12.00	06:00 Current Condition PARTLY C	-2 Ins
Tour 3		2.50			1.00	0 5.00	0.25		0.75												0.25					4.00	E Road Condition	UP TO 19 KM/H
то	our 1	SI	GNATURE O	FDRILLER	DAVE	LOEW	EN														•			START		:00		8:00
BITS			Di	RILLING A			MUD R	ECORD					SURVEYS					TIME LO										
Bit	t Number Size	4	No 1	Comp 159M				Mud T	ype Water Other	זיינ		Time	Depth	Deviatio	n Di	rection	Туре	From T	fo Elaps	ed Code			Details	Of Operati	ions In Sec	quance & Rer	narks	
IAI	DC Code		1	NEAR BIT 8 STAGE		135 1 1.0			<u> </u>	\mp																		
Manu	ufacturer Type S	REEI K413M-A	<u>ر</u>		LEX MONEL	118 70 9.4	9 Funnel V	iscosity Is							_													
5	Serial No	E2289	24 2	NON MAG FL	LEX MONEL	118 70 18.	pH Location	Of Sample				SOLIDS CO	ONTROL															
	-	.5 9.5 .5 9.5	2	SLIDE RE	ER SUB	121 58 1.4 130 60 1.7	-					Equipment Name	Hours Run	Inta Den:		ver Flow Density	Under Flow Density											
	h Out (m) oth In (m)	2083.0		5" JA		130 58 5.2		ition																				
Total Di		42.00		AGIT/	ATOR	124 68 7.4 130 60 0.7			ver Size SP1		0.00																	
Hrs Ru Cumulative	un Today Hrs Run	1.25						PARALLEL		- 20300	2.00	MUD MATE	RIALS AD Product		/	Amount	Туре											
Er		7-Dec-2	<u> </u>	-		Stands 2126.0 ingles 0.0	Remarks																					
ті то	STRUCTU	Gage ODC		Kelly Down		0.0 2184.5	-											Remarks FUNCT			SAVER H	HIGH/LC	OW TRA	VEL ST	OPS/LI	MITS. IN	SPECT FL	ARE AND
MDC LOC BRG		Rasson Pulled Total Run (m/hr)	33.60	Weight of DC														DEGAS	SSER L	INES,F	UNCTIO	N CHO	KES AN	ID FLAF	RE STA	CK IGNIT	OR. INSP	
METRES	RILLED To D-I	R-C RPM		DLE COND			Pump	# Pres		trokes/mir	Depth															ANCHO		
				Hole Drag Torque At		2 Down 2	4 2	5140		52 @	2082.00	BOILER BoilerN	lo Hou	rsRun	pН	Sta	ackTemp	SAFETY							MEHL			\CP
				Fill On					œ	Q								DRIVING H	HOME LO		fety Topic GE MORNII	NG				.00		
TO	our 2	SI		F DRILLER		NEWT																		START	ini∭⊒ O	:00	END TIME	20:00
BITS	t Number	4	No	Comp	onent	OD ID Len	pth	ECORD Mud T	ype Water	_ 01 🗹		Time	Depth	Deviatio		rection	Туре	TIME LOO From T		ed Code			Details	Of Operati	ions In Sec	quance & Rei	narks	
	Size DC Code	159		159MI			1 4 Time		Other	\neg		16:45	2387.6	5 92	.70	90 88.5												
	ufacturer	REEI		8 STAGE		127 1 9.1	2 Density 9 Funnel V					17:15	2416.6	0 91	.10 .00	89.7 89.1												
		K413M-A E2289	1GZ 1	GAP SUE	3 GS509	128 1 1.6	4 Fluid Los						2445.70		.30 .80	89.1 90.7												
	Jets 9	5 9.5	1	NON MAG FL	AMER	121 58 1.4	3 Depth	Of Sample				SOLIDS CO	Hours	Intai		ver Flow	Under Flow											
Depth	9 h Out (m)	.5 9.5	1	crossov 5" JA	RS	130 60 1.7 130 58 5.2	2	4:				Name Centrifuge #			1180	Density 1090	Density 1740											
	oth In (m)	2083.0	1	AGITA	TOR	130 60 1.5 124 68 7.4	6		ner Size SPI	M Pressure	Hrs Run	Centrifuge #	2 5.	00	1180	1090	1740											
Total Di Hrs Ru	rilled (m) un Today	508.0 7.50	- 1	CROSSOV	ER SUB	130 60 0.7	8 2	_{single} 1	27 10	4 26500	12.00	MUD MATE	RIALS AD	DED			Terre											
Cumulative		8.75 7-Dec-2	0	Drill Pipe		Stands 2534.2							Product		- '	Amount	Туре											
	STRUCTU		016 0	Kelly Down	s	ingles 0.0 -1.8	3											Bomarka										
TO MDC LOC		ODC Reason Pulled Total Run Imhri		Total Weight of DC		2591.0	2											DEGAS	SSER L	INES,F	UNCTIO	N CHO	KES AN	ID FLAF	RE STA	CK IGNIT	OR. INSP	ARE AND ECT BOP
BRG ALETRES D			58.06	Weight of String		64.0		ED PUMP	SPEED																	TONGS B ANCHO		COLLARS
		R-C RPM	WOB	Hole Drag	Up	3 Down	- 2	# Pres 5630	œ	trokes/mir 52 @		BOILER	lo Hou	rePue	pH	04	ckToren	SAFETY										
				Torque At Fill On	-	910	י <u></u>		@ @	0	\square	Dollern		iandii	pri	318	ackTemp	DERRICK	CONNEC		fety Topic				MEHL		MA	CP
то	ur 3	SI	GNATURE O	FDRILLER	ERIC	OBRI	EN																	START	TTIME 20	0:00	END TIME	24:00
BITS			D	RILLING A	SSEMB	OD ID Len	MUD R	ECORD Mud T	ype Water	- 0i - *			Depth	Deviatio	in Di	rection	Туре	TIME LOC From T		ed Code			Detaile	Of Operation	ions in Sec	quance & Rer	narks	
Bit	t Number Size	4		159MI		159 1 0.2			Other											Juae			201015	sparati				
	DC Code	REEI	1	NEAR BIT 8 STAGE		127 1 9.1	2 Density																					
Manu	-	REEL K413M-A		NON MAG FL		118 70 9.4	9 Fluid Los	iscosity Is								$ \downarrow$		\vdash	+	+								
8		E2289	24 2		LEX MONEL	118 70 18.	bo Location	Of Sample		+		SOLIDS CO	ONTROL					⊨‡	+	+								
		.5 9.5 .5 9.5	1	CROSSOV	ER SUB	130 60 0.9	4 PVT					Equipment Name	Hours Run	Intai Den:	sity	ver Flow Density	Under Flow Density											
	h Out (m) oth In (m)	2083.0	0 1	6 4.5" D	ER SUB	135 80 48. 130 60 0.7	8 Circula					Centrifuge #	1 4.	00	1170	1060	1745	\models	\pm									
Total D	rilled (m)	708.0	0 1	5" JA	RS	130 58 5.2 130 60 0.7			er Size SPI	-	Hrs Run 3.00		RIALS AD	DED														
Hrs Ru Cumulative	-	2.50	57	4.5" D	P	135 80 554	n 2		27 10			in er sen i fan h	Product			Amount	Туре											
	ntry Date 1	7-Dec-2		Drill Pipe		ingles 9.2	Remarks																					
ті то		Gage ODC		Kelly Down		-8.5 2791.0												Remarks FUNCT	ION CI	ROWN	SAVER	UPPER	/LOWEF	R TRAV	EL STO	PS & LIN	NITS, MCW	/S, DRILL
MDC LOC BRG		Total Run (m/rd	52.93	Weight of DC		67.0												LINE A	ND DR TORS,	DOG C	IE ANCH	ior, in	SPECT	TONGS	& LINE	ES, IRON	ROUGHN	ECK, SLIPS, MANIFOLD
METRES D	To D-I	R-C RPM	WOB HO	DLE COND		_	REDUC		sure S	trokes/mir	n Depth	BOILER						VALVE	5 AND	LINES								
Ħ	+	+		Hole Drag Torque At	Bottom	5 Down 950	2	5870 5980	@	52 @ 52 @	2562.00		lo Hou	rsRun	pН	Sta	ackTemp	SAFETY		Sa	fety Topic				MEHL		MA	\CP
				Fill On	Bottom				@	@								SOUR BO	P DRILL	- 38				74	- HEILE	352		

										1	four Sheet Seria	al Number		Vender S	oftware Version	n		Year	Month	Day	DAILY C				00.04		ne 5 of 6
License No	٧	Vell Name				E SUMMAR	RY			S	Surface Location	465_2016	1218_1A	Pic	av.	016.6.14.	Unique V	20 ⁴		2 18	(1.) Daily Wa (2.) Detailed	lk Around Inspe	ekly (Using Cha	ack List)	AL RT		
32574 Operator ARC Res		RCRES H	IZ Septim	us H11-3	84-81-1	18W6		Contractor	ion Drillin		<u>1-34-81-1</u>	8 W6		BC Rig 46) No	DLS Well Type	102/09 HO)-35-081-	18W5	Re-Entry	(4.) Well Lice (5.) Flare Lin (6.) BOP Dril	nce & Stick Dia es Staked Is Performed	gram Posted		AL RT AL RT AL RT		
Operator's AF	E							Contractor 35		<u>g, uiv oi i</u>	00			140	Spud D	ate Time 09-Dec-			18:00		(1.) Rig Site (2.) CAODC	Health & Safety Rig Safety Insp	Flare Lines & I Meeting (one/c ection Checklist	rew/month) (one/rig/month	RT		
Signature Of	Dperator's Rep	resentative						Signature ROD T	Df Contractor's F	ig Manager					Rig Ra	lease Date Time	2	1			(3.) Mast Ins (4.) Crown S (5.) Motor Kil	pection before F aver Checked Is Checked	Raising or Lowe	ring	RT		
Code	1 Rig Up	2 Drill Actual	3 Reaming	4 Coring		5 6 d Mud Trips	Rig Service	8 Repair Rig	9 Cut Off	10 Dev Survey	11 Wireline Logs	Run Csg & Cement	13 Wait On Cement	Nipple BOP	Test BOP	Drillstem Test	Plug Back	18 Squeeze Cement	19 Fishing	20 Dir Work	21 Safety Meeting	Tear Down	28 Waiting On	Rig Watch	25 Other	FUE	4078 L @ 08:00 HRS
Tour 1	Up	Actual 1.25	-		-	.50 5.00		Rig	Drilg Line	Survey	Logs	& Cement	Cement	BOP	BOP	Test	Back	Cement		Work	0.50		On	Watch	-	TOTAL Rig 8.00 18971	Boller 9636 Temp
Tour 2		7.50			-	.00	0.25														0.25					12.00 H 06:0	0 -2 Conditions
Tour 3		2.50			-	.00 .50 5.00	0.25		0.75												0.25	-				4.00	Wind Strength UP TO 19 KM/H
TO	ur 1	-				VE LOEW	-		0.75												1.00			START		24.00 > FAIR	IME 8:00
BITS								ECORD					N SURVEY	•				TIME LO						START	V	.00	0.00
	Number	4	No	Comp	ponent	OD ID Ler	igth		ype Water] °" 🗹	-	Time	Depth	Deviati	ion D	lirection	Туре	· · · · · ·	To Elaps	ed Code			Details	Of Operati	ions In Sec	uance & Remarks	
IAI	Size DC Code	159	-12	159M NEAR BIT	INC SU	JB 135 1 1.0	D4 Time		Other																		
Manu	facturer	REE		8 STAGE			49 Funnel \	liscosity																			
s		K413M-A E2289		GAP SU		70	рн																				
		.5 9.5	1	SLIDE R	EAME	R 121 58 1.4	43 Depth PVT	Of Sample				SOLIDS C	Hours	Inta		Over Flow	Under Flow		_								
Depth	9 Out (m)	.5 9.5		crossov 5" JA		в 130 60 1. 130 58 5.	20					Name	Run	Den	isity	Density	Density										
Dep	th In (m)	2083.0	1	AGIT					ner Size SPI	M Pressure	Hrs Run																
Total Dr Hrs Ru		42.00	<u> </u>	CROSSOV				PARALLEL	27 10	4 26500	2.00	MUD MAT	ERIALS AD														
Cumulative	Hrs Run	1.25	71	Drill Pipe		Stands 2126.0			_	+	┝─┦		Product	t		Amount	Туре		_								
Er CUTTING		7-Dec-2	016 0	Drill Pipe Kelly Dow	m	Singles 0.0		3									-										
TO MDC	_	ODC Resson Pulled		Tota Weight of D0	a	2184.5	9										1									MITS. INSPEC CK IGNITOR. II	
LOC BRG		Total Ran (m/hr)	33.60	Weight of Strine	9												-	AND A	LL WE	LL CÓP	NTROL I	EQUIPM	IENT IN	SPECT	SLIPS,	TONGS B&V, D ANCHOR.	OG COLLARS
METRES D	To D-I	R-C RPM	WOB HO	Hole Drag	DITION Up		2 Pump		sure S	trokes/mir		BOILER									ionno,	DIVICE				Anonon.	
				Torque At		600	2	5140	@	52 @		Boiler	No Hou	ırsRun	рH	Sta	ackTemp				fety Topic				MEHL		MACP
то	JR 2	SI	SNATURE OF	Fill On		AN NEWT	ON		®	@								DRIVING	HOME LO	NG CHAN	GE MORNI	NG		START	T.TIME 8	:00 ENDI	ME 20:00
BITS				RILLING A				ECORD				DEVIATIO	N SURVEY	s				TIME LC	ng								10.00
	Number	4	No	Comp	ponent	OD ID Ler	igth		ype Water	שיים	1	Time	Depth 2474.8	Deviati	on D	Nirection 90.5	Type		To Elaps	ed Code			Details	Of Operati	ions In Sec	uance & Remarks	
IAI	Size DC Code	159		159M		JB 135 1 1.0	04 Time		Other			18:15	5 2489.3	2 91	.20	91.1			_	+							
	facturer	REEL		8 STAGE			49 Funnel \	riscosity				19:00	2503.8 2518.5	8 91	.90 .00	91.8 90											
		K413M-A		GAP SU	B GS50	09 128 1 1.0	64 pH						2533.0 2547.5		.10 .90	90.1 91.8			_								
	-	.5 9.5	1	SLIDE R	EAME	R 121 58 1.4	43 Depth	Of Sample		-		SOLIDS C	Hours	Inta		Over Flow	Under Flow										
Denth	9 Out (m)	.5 9.5		CROSSOV		в 130 60 1. 130 58 5.	20					Name Centrifuge /	Run 11 6.		1180	Density 1090	Density 1740		_								
	th In (m)	2083.0	<u> </u>	AGIT					ner Size SPI	M Pressure	Hrs Run	Centrifuge /	12 5.	.00	1180	1090	1740										
Total Dr Hrs Ru		508.0 7.50	0 1	CROSSOV				SINGLE 1	27 10	4 26500	12.00	MUD MAT	ERIALS AD	DED													
Cumulative	Hrs Run	8.75	87	Drill Pipe		Stands 2534.2	24						Product	t		Amount	Туре										
Er		7-Dec-2 ਜ਼	016 0	Drill Pipe Kelly Dow	n	Singles 0.0 -1.8		5		_																	
TI TO MDC	_	Gage ODC Reason Pulled		Tota Weight of DO		2591.0																				MITS. INSPEC	
LOC BRG		Total Ran (m/hr)	58.06	Weight of Strine	9	64.0	0										-	AND A	ALL WE	LL COM	ITROL I	EQUIPN	IENT IN	SPECT	SLIPS,	CK IGNITOR. II TONGS B&V, D ANCHOR.	
METRES D	RILLED To D-I	R-C RPM	WOB HO	Hole Drag	DITION _{Up}		5 Pump		sure S	trokes/mir		BOILER									ronno,	DIVILL				Anonon.	
				Torque At Fill On		910	- 2	5630	@	52 @	2300.00		No Hou	ırsRun	рН	Sta	ackTemp			Sa	fety Topic				MEHL		MACP
то	ur 3	SI	GNATURE O	_		IC OBRI	EN	1	æ	@				T				UERRICI	CONNEC	IUNS				START	T TIME 20):00 END	ME 24:00
BITS				RILLING A				ECORD				DEVIATIO	N SURVEY	s				TIME LC	DG								
	Number	4	No	Comp 159M		OD ID Ler	igth	Mud T	ype Water Other	⊐⊶⊠	-	Time	Depth	Deviati	ion D	lirection	Туре	From	To Elaps	ed Code			Details	Of Operati	ions In Sec	uance & Remarks	
IAI	Size DC Code	159	-12	NEAR BIT	INC SU	JB 135 1 1.0	04 Time		- Caler					-				H	\pm								
	facturer	REEI	<u> </u>	8 STAGE	FLEX MON	NEL 118 70 9.4	49 Funnel \	liscosity						+					+	+							
s		K413M-A E2289	1GZ 1	GAP SUE NON MAG F	B GS50	09 128 1 1.	64 pH	ss Of Sample	<u> </u>	+								F	+	+							
	Jets 9	.5 9.5	1	SLIDE R	EAMER	R 121 58 1.4	43 Depth			_		Equipment Name	ONTROL Hours Run	Inta Den		Over Flow Density	Under Flow Density										
Depth	9 Out (m)	.5 9.5	5	CROSSOV	DP	135 80 48	94 .67 Cirouk	ation				Name Centrifuge /	-		1170	1060	Density 1745		\pm								
	th In (m)	2083.0	<u>~</u> 1	crossov 5" JA	RS	130 58 5.	78		ner Size SPI	M Pressure	Hrs Run			+	+				+								
Total Dr Hrs Ru		708.0 2.50	0 1	CROSSOV	VER SUE		78 1		27 10			MUD MAT	ERIALS AD			America			+	+							
Cumulative		11.2	5 5	Drill Pipe		Stands 139.1		SINGLE	27 10	4 26500	0.50		Product			Amount	Туре										
Er CUTTING	try Date 1	7-Dec-2	016 1	Drill Pipe Kelly Dow	m	Singles 9.2 -8.5	3	3		_							1										
TO MDC		ODC Reason Pulled		Tota Weight of DO	<u> </u>	2791.0	0				ŀ						-	Remark FUNC			SAVER		LOWE	R TRAV		PS & LIMITS, I	ICWS, DRILL
LOC BRG		Total Run (m/ht)	52.93	- Weight of Strin	9	67.0		CED PUMP	SPEED	_								ELEV/	ATORS, ES AND	DOG (OLLAR	S, FUN	CTION	CHOKE,	, FLARE	STACK IGNIT	OR, MANIFOLD
From		R-C RPM	WOB HO	Hole Drag	DITION Up		7 Pump 2		sure S	trokes/mir 52 @		BOILER															
				Torque At		950	0 1	5980	@	52 @	2650.00	Boiler	No Hou	ırsRun	рH	Sta	ackTemp			Sa	fety Topic				MEHL		MACP
				Fill On	n Bottom				@	@								SOUR BO	OP DRILL					74		3528	

											four Sheet Seria	Number		Vender S	oftware Version	n		Year	Month	Day	DAILY C				00.01	_	Page 6 of 6
License No	1	Vell Name				SUMMAR	łΥ			3	Surface Location	465_2016 [.]	1218_1A	Pic	w	016.6.14.	Unique V	Vell Id	016 1	2 18	(1.) Daily Wa (2.) Detailed	lk Around Inspe	ekly (Using Ch	ack List)	AL RT		
32574 Operator ARC Re:		RCRES H	IZ Septim	us H11-3	84-81-1	18W6		Contractor	ion Drillin		1-34-81-1	8 W6		BC Rig 46	No	DLS Well Type	102/09 HO	9-35-081 RIZ	-18W5	Re-Entry	(4.) Well Lice (5.) Flare Line (6.) BOP Drill	nce & Stick Dia es Staked Is Performed	igram Posted		AL RT AL RT AL RT		
Operator's AF	FE							Contractor 35		g, urv or i	00			140	Spud D	ate Time 09-Dec-			18:00		(1.) Rig Site I (2.) CAODC	Health & Safety Rig Safety Insp	s-Flare Lines & Meeting (one/c ection Checklisi	rew/month) (one/rig/month	RT		
Signature Of	Operator's Rep LUNGAL	resentative						Signature ROD T	Of Contractor's F	lig Manager					Rig Ra	lease Date Time	2	1			 (3.) Mast Insp (4.) Crown Sa (5.) Motor Kill 	pection before F aver Checked Is Checked	Raising or Lowe	ring	RT		Buchano I Din Fran
Code	1 Rig Up	2 Drill Actual	3 Reaming	4 Coring		1 Mud Trips	Rig Service	8 Repair Rig	9 Cut Off	Dev Survey	11 Wireline Logs	Run Csg & Cement	18 Wait On Cement	Nipple BOP	Test BOP	Drillstem Test	Plug Back	18 Squeeze Cement	19 Fishing	20 Dir Work	21 Safety Meeting	Tear Down	28 Waiting On	Rig Watch	25 Other		4078 FUEL @ 08:00 H
Tour 1	Up	Actual 1.25	-		-	.50 5.00	Service	Rig	Drilg Line 0.75	Survey	Logs	& Cement	Cement	BOP	BOP	Test	Back	Cement		Work	0.50		On	Watch		TOTAL 18g 8.00	971 9636 Time Temp
Tour 2		7.50			-	.00	0.25														0.25					12.00 🛱	06:00 -2 Current Conditions PARTLY CLOUDY
Tour 3		2.50			-	.00 .50 5.00	0.25		0.75												0.25	-				4.00	E UP TO 19 Road Condition
то	ur 1	-	2NATURE O			/E LOEW	-		0.75												1.00			START		24.00 ≧ :00	FAIR END TIME 8:00
BITS								ECORD					N SURVEY	•				TIME L	00					START	U	.00	0.00
	Number	4	No	Comp	ponent	OD ID Len	gth		ype Water	_ 0ii [Time	Depth	Deviati	on D	lirection	Туре		To Elaps	ed Code			Details	Of Operati	ions In Sec	uance & Rema	rks
IAI	Size DC Code	159	-12	159M NEAR BIT	INC SU	ив 135 1 1.0	04 Time		Other																		
Manu	ufacturer	REE)	8 STAGE			19 Funnel \	/iscosity																			
5		K413M-A		GAP SUE		70	рн	ss of Sample																			
	Jets 9	.5 9.5	1	SLIDE R	EAME	R 121 58 1.4	13 Depth PVT	or sample				Equipment	Hours	Inta		Over Flow	Under Flow										
Depth	1 Out (m)	.5 9.5		crossov 5" JA		в 130 60 1.7 130 58 5.2	20					Name	Run	Den	sity	Density	Density										
	ith In (m)	2083.0		AGIT					ner Size SPI	M Pressure	Hrs Run																
Total Di Hrs Ru		42.00	2	CROSSOV				PARALLEL	27 10	4 26500	2.00	MUD MAT	ERIALS AD														
Cumulative		1.25	71	Drill Pipe		Stands 2126.0					$\left - \right $		Product	t		Amount	Туре										
Er		7-Dec-2	016 0	Drill Pipe Kelly Dow	m	Singles 0.0		5							+		-										
TO MDC		ODC Resson Pulled		Tota Weight of D0	a	2184.5	9										1										PECT FLARE AN
LOC BRG		Total Run (m/m)	33.60	Weight of String	9												-	AND	ALL WE	LL CÓI	TROL B	EQUIPM	IENT IN	SPECT	SLIPS,		V, DOG COLLA
From	To D-	R-C RPM	WOB HO	Hole Drag	DITION Up		2 Pump		sure S	trokes/mi		BOILER							DIGIVE, E		ionno,	DIVICE				Anonon.	
				Torque At		600	- 2	5140	@	52 @		Boiler	lo Hou	ırsRun	рH	Sta	ackTemp				fety Topic				MEHL		MACP
то	UR 2	SI	SNATURE O	Fill On		AN NEWT	ON		œ	Q								DRIVIN	g home lo	NG CHAN	GE MORNI	NG		START	TTIME 8	:00	END TIME 20:00
BITS	-			RILLING A				ECORD				DEVIATIO	N SURVEY	s				TIME L	00								20100
	Number	4	No	Comp	ponent	OD ID Len	gth		ype Water	_ 01 1		Time	Depth 2562.1	Deviati	on D	Nirection 91.1	Type		To Elaps	ed Code			Details	Of Operati	ions In Sec	uance & Rema	rks
IAI	Size DC Code	159	-12	159M	INC SU	ив 135 1 1.0	04 Time		Other			13.4	2302.1	1 32		31.1											
	ufacturer	REEL		8 STAGE			Funnel V	/iscosity																			
		K413M-A		GAP SU	B GS5	09 128 1 1.6	54 pH																				
		.5 9.5	1	SLIDE R	EAME	R 121 58 1.4	13 Depth	n Of Sample				Equipment	Hours	Inta		Over Flow	Under Flow										
Depth	9 Out (m)	.5 9.5		CROSSOV		в 130 60 1.7 130 58 5.2	20					Name Centrifuge /			1180	Density 1090	Density 1740										
Dep	ith In (m)	2083.0		AGIT					ner Size SPI	M Pressure	Hrs Run	Centrifuge /	2 5.	.00	1180	1090	1740										
Total Dr Hrs Ru	rilled (m) un Today	508.0 7.50	0	CROSSOV				single 1	27 10	4 26500	12.00	MUD MAT	ERIALS AD	DED													
Cumulative		8.75	87	Drill Pipe		Stands 2534.2	24		_				Product	t		Amount	Туре										
Er		7-Dec-2	016 0	Drill Pipe Kelly Dow	n	Singles 0.0		B									-										
TI TO MDC		Gage ODC Reason Pulled		Tota Weight of D0		2591.0											1										PECT FLARE AN
LOC BRG		Total Run (m/hr)	58.06	Weight of Strine	9	64.0	0	CED PUMP										AND	ALL WE	LL COI	NTROL E	EQUIPN	IENT IN	SPECT	SLIPS,	ONGS B& ANCHOR.	V, DOG COLLA
From	To D-I	R-C RPM	WOB HO	Hole Drag	DITION Up		5 Pump	# Pres	sure S	trokes/mi		BOILER							, _		,						
				Torque At Fill On		910	0 2	5630	@ @	52 @ @		Boiler	lo Hou	ırsRun	рН	Sta	ackTemp			Sa	fety Topic				MEHL		MACP
то	ur 3	SI	GNATURE O	_		C OBRI	EN		8	œ								II DEKKIC	CK CONNEC	NUNS				START	TTIME 20	0:00	END TIME 24:00
BITS			DI	RILLING A	ASSE	MBLY	MUD R	ECORD					N SURVEY	_				TIME L									
Bit	Number	4	No	Comp 159M		OD ID Len		Mud T	ype Water Other			Time	Depth	Deviati	on D	lirection	Type	From	To Elaps	ed Code			Details	Of Operati	ions In Sec	juance & Rema	rks
IAI	Size DC Code	159	-12	NEAR BIT	INC SU	ив 135 1 1.0	04 Time							-				┢╡									
Manu	ufacturer	REE	<u> </u>	8 STAGE	FLEX MOR	NEL 118 70 9.4	19 Funnel V	/iscosity	-				-	-													
5		K413M-A E2289	1GZ 1	GAP SUE NON MAG F	B GS5	09 128 1 1.6	64 pH	ss of Sample		+																	
		.5 9.5	1	SLIDE R	EAME	R 121 58 1.4	13 Depth				_	Equipment Name	Hours Run	Inta Den		Over Flow Density	Under Flow Density										
Depth	9 Out (m)	.5 9.5		CROSSOV	DP	135 80 48.	67 Circula	ation				Centrifuge I	-		sny 1170	1060	1745	╞		+							
	ith In (m)	2083.0		crossov 5" JA	RS	130 58 5.2	78	Type Li	ner Size SPI				-	+	+												
Total Di Hrs Ru		708.0 2.50	1	CROSSOV			78 1		27 10			MUD MAT	ERIALS AD			Americ	Turne										
	Hrs Run	11.2	5 5	Drill Pipe		Stands 139.1		SINGLE	27 10	4 26500	0.50		Product			Amount	Туре										
	ntry Date	7-Dec-2	016 1	Drill Pipe Kelly Dow	m	Singles 9.2	3	8									1										
TO MDC		ODC Reason Pulled		Tota Weight of DO	<u> </u>	2791.0	0										-	Remar FUNC			SAVER		LOWE	R TRAV	EL STO	PS & LIMI S. IRON P	IS, MCWS, DRII DUGHNECK, SI
LOC BRG		Total Run (m/ht)	52.93	- Weight of Strin	e.	67.0		CED PUMP	SPEED									ELEV	ATORS,	DOG (OLLAR	S, FUN	CTION	CHOKE,	, FLARE	STACK IC	SNITOR, MANIF
From		R-C RPM	WOB HO	Hole Drag	DITION Up		7 Pump 2		isure S	trokes/min		BOILER															
				Torque At		950	0 1	5980	®	52 @	2650.00	Boiler	lo Hou	ırsRun	рH	Sta	ackTemp			Sa	fety Topic				MEHL		MACP
				Fill On	n Bottom	I			@	@								SOUR	BOP DRILL					74		3528	

				ONT P							Tour Sheet Serie			Vender S	loftware Version	1		Year	Mon	th Day	DAILY	CHECKS			OP	RM	Pa	ade 1 o	<u>if 4</u>
License No 32574	A	el Name RCRES H		UNT P			CT.				PREC Surface Location 11-34-81-1	465_20161 8 W6	1219_1A	Pe B(DV .	016.6.14.3	Unique W	20 erid -35-081-		12 19	(2.) Detailed (3.) H2S Sig	alk Around Inspe Inspection - We ns Posted if Re ence & Stick Dia	eekty (Using auired		AL AL AL	RT RT	CA	OD	
Operator ARC Resc Operator's AFE								Contracto Precis Contracto	r ion Drillir	ng, div of	PDC			Rig 46	g No 55	Well Type	но			Re-Entry	(5.) Flare Lin (6.) BOP Dri (7.) Visually	es Staked Ils Performed Inspected BOP	's-Flare Line	s & Degasser Li	AL AL AL	RT RT RT			
16DRL008 Signature Of Op	erator's Repr	esentative						35 Signature	Of Contractor's						Rig Ra	09-Dec-	2016	<u> </u>	18:00)	(2.) CAODC (3.) Mast Ins	Health & Safety Rig Safety Insp spection before I saver Checked	pection Chec	klist (one/rig/mo	onth)	RT			
ALLEN LU Code	JNGAL 1	2	3	4	5	6	7	ROD T	OMPKIN: 9	s 10	11	12	13	14	15	16	17	18	19	20	(5.) Motor Ki 21	lls Checked	23	24	25	5	Kelly Bush	hing	op Fuel 3901
	Rig Up	Drill Actual	Reaming	Coring	Cond Mud & Circ	Trips	Rig Service	Repair Rig	Cut Off Drilg Line	Dev Survey	Wireline Logs	Run Csg & Cement	Wait On Cement	Nipple BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fishing	Dir Work	Safety Meeting	Tear Down	Waitin On	g Rig Watch	h Oth	тот	AL Rig	E	8:00 HRS Boller 9530
Tour 1		4.50 7.25					0.25			3.00	-				0.25						0.25	-				8.	00 😤 06	:00 ·	^{Yemp} -1
Tour 3 TOTAL		2.50 14.25					0.25			1.25	-				0.25						0.75			_	_	4.		d Direction	Wind Strength UP TO 29 KM/H
TOUF	1		GNATURE OF	FDRILLER	ERIC	OBRI				10.00					0.23						0.10			ST	ART TIME	0:00			:00
BITS			DF	RILLING A		_	MUD R	ECORD				DEVIATIO						TIME LO											
Bit N	umber Size	4 159		Compo 159MI		DD ID Len		Mud 1	Type Water Other				Depth 5 2788.1 0 2802.1	_	.60 .20	trection 88.9 88.9	Туре	0:00	To Elap 4:00 4.0 7:00 3.0	00 2	DRILL 159		E FRON	1 2791M -	3068M.		& Remarks		<u>.</u>
IADC Manufa		REEL	+1	NEAR BIT	MOTOR 1	35 1 1.0	2 Density	/iscosity	02:15 1170 57	04:4		00:45	5 2816.0 2829.9	2 90	0.60	90 88.2		7:15	7:45 0.	50 2	DRILL 159	MM HOL	E FRON	1 3068M -	3140M.		O CLOSE.		
		K413M-A	1GZ 1	GAP SUB	GS509 1	18 70 9.4 28 1 1.6	19		5/	56		01:15	5 2843.8 0 2857.7	2 92	2.70	88.5 87.9		7:45	8:00 0	25 21	REPRESE							IAGER, AN	
Ser		E2289 5 9.5	1	SLIDE RE	AMER 1	18 70 18. 21 58 1.4	13 Depth	n Of Sample	SHAKE 2903.00 79	302	AKER 9.00	SOLIDS CO	ONTROL Hours	Inta	ake C	Over Flow	Under Flow												
Depth O		5 9.5 3140.0	0 5	crossov 4.5" D	P 1	30 60 0.9 35 80 48	67 67 Circula	ation	79	69		Name Centrifuge A	Run /1 8	.00	1170	Density 1090	Density 1745												
Depth Total Drille		2083.0 1057.0	1	CROSSOV		30 60 0.7 30 58 5.2	78		iner Size SF	PM Pressur	re Hrs Run																		
Hrs Run	Today	4.50	57	crossov 4.5" D		30 60 0.7 35 80 554	78 1 37	SINGLE	127 10	04 2800	0 6.50	MUD MATI	ERIALS AD Produc			Amount	Туре												
	y Date 1	15.75 7-Dec-2	!	Drill Pipe Drill Pipe	Star Sing							BARITE CES WET				8	1 EACH												
	TRUCTUR	Gage ODC		Kelly Down	I	-4.9 3140.0	7	-				CES SEC	L P-100				1 EACH 1 EACH 4 EACH	Remark		ROWN	SAVER	UPPER	2/I OW	FR TRA	VEL S	TOPS 8	LIMITS,	MCWS	
MDC LOC BRG		Rasson Pulled Total Run (m/hr)	57.11	Weight of DC		70.0	0					CALCIUM LIME		DE		: 1:	5 EACH	LINE	AND DI ATORS	RILL LI 5, DOG	NE ANCI COLLAF	HOR, IN	ISPEC	T TONG	S & LI	NES, IR	ON ROU	GHNEC	CK, SLIPS
METRES DR From T 2791.00 314	o D-R	-C RPM	WOB	DLE COND	_	Down 1	REDUC		ssure	Strokes/m		BOILER						VALV	ES ANI	DLINE	5								
				Torque At Fill On	Bottom	1020	1 1	6440	@	52 @ 52 @	2984.00			8.00	pH 10.5	i	ickTemp 340	SAFETY			afety Topic				ME	HL		MACP	5
TOUF	2	sic	GNATURE OF			N PREV	OST	7020	Q.	52 @	3068.00	2		8.00	10.5		340	DERRIC	K CONNE	CTIONS				73	ART TIME	8:00	3528 =N	D TIME 20):00
BITS			DF	RILLING A		DD ID Len	MUD R	ECORD				DEVIATIO	Depth	S		irection	Туре	TIME LO	OG To Elap	cod Code			Data	ile Of Ones	rationa In	Comuchas	& Remarks		
Bit N	Size	4		159MI		59 1 0.2		Muu i	Type Water Other				0 3123.7 5 3137.9	6 89	9.80).30	89.9 89.4	1990	8:00 9:30 1	9:30 1.5 10:15 0.7	50 <u>2</u> 75 10		LATED DE	E FRON	1 3140M - ON SURVE	3242M. EYS, WO	RK PIPE			
IADC Manufa	Code	REEL	[1	NEAR BIT	MOTOR 1	27 1 9.1	2 Density	/iscosity	08:15 1180 57	13:0		08:45	5 3152.5 0 3167.1	0 90	0.50	90 92.2		10:15 1	10:30 0.1	25 21A		DS.CREV	N PACH	ED UP &	SEARCH	H ROUTE	COMPLET		ECURE IN 5 SECS
		(413M-A E2289)		NON MAG FL	GS509 1	18 70 9.4 28 1 1.6	Fluid Lo pH	55		-		09:30	0 3182.1 5 3197.1	1 90).30).00	92.2 89.6		12:45 1	15:30 2.1	75 10	DRILL 159 ACCUMUI	MM HOL	E FRON	1 3242M - ON SURVE	3445M. EYS, WO	RK PIPE			s.
Jer	Jets 9.	5 9.5	1	SLIDE RE	AMER 1	18 70 18. 21 58 1.4	13 Depth	of Sample	SHAKE 3153.00 83		AKER 8.00	SOLIDS CO	Hours			Over Flow	Under Flow				ACCUMUI	LATOR FL	UNCTIO	N TEST. S	START P	RESS2	ONDS TO 0300KPA A LD TIME 3M	FTER 4 R	
Depth O		5 9.5	5	crossov 4.5" D	P 1	30 60 0.9 35 80 48	67 Circula	ation	05	02		Name Centrifuge #			1180 1180	Density 1160 1160	Density 1890	16:00 1	19:30 3.	50 2	PRECHAR DRILL 159	RGE 7000	KPA N2 E FRON	X 5 2200	PSI N2 X 3591 M	1 2000P			
Depth Total Drille		2083.0 1508.0	$\frac{1}{10}$	crossov 5" JAI	RS 1	30 60 0.7 30 58 5.2	20 Pump#	Type Li	iner Size SF			Centrifuge #	12 12	.00	1100	1100	1300					IANGE HA	ANDOVI	ER SAFET	TY MEET		I RIG MAN		
Hrs Run ' Cumulative Hr	Today	7.25	57	crossov 4.5" D	P 1	30 60 0.7 35 80 554	<u>.</u> 2		127 10 127 10	04 2870 04 2870		MUD MATI	Produc			Amount	Туре			_									
Entr	y Date 1	7-Dec-2	, <u>17</u> :016 0		Star Sing	0.0	0 Remark	s				CES SEC CES WET ENERMUI	TER				2 BBL 2 BBL 2 BBL												
	TRUCTUR	Gage		Kelly Down Total		-0.3 3591.0	-					BARITE LIQUIDSL				12	6 SXS 2 BBL										LIMITS,		
MDC LOC BRG	-	Total Run (m/hr)	55.57	Weight of DC		70.0						LIME				4	5 SXS	ELEV		, DOG	COLLAR								CK, SLIPS IANIFOLD
From T 3140.00 359	o D-R 1.00 DRI	-C RPM LL 50	WOB 11	Hole Drag		Down 2	Pump			Strokes/mi		BOILER						DID W	EEKL			ION &	VISUA	LLY IN:	SPECT	ED FL	REAND	DEGAS	SSER
				Torque At Fill On		1050	0 2	7280	@	52 @	3365.00	BoilerN 1 2		1rsRun 2.00 2.00	pH 10 10		340 340	SAFETY BOP DR		s	afety Topic			75	ME	HL	3528	MACP	
TOUF	3	sic	SNATURE OF	FDRILLER	ERIC	OBRI	EN																	ST	ART TIME	20:00		DTIME 24	1:00
BITS Bit N	umber	4	DF No	Comp		DD ID Len		ECORD Mud T	Гуре Water			DEVIATIO Time	Depth	Deviati		irection	Type		To Elap							Sequance	& Remarks		
	Size	159		159MI NEAR BIT		59 1 0.2	21 04 Time		Other	21:4		20:45	0 3575.3 5 3604.3	1 89	6.60 9.30	90 90.3		22:30 2	23:45 1.3	25 10	DRILL 159 ACCUMUI RIG SERV	LATED DE	EVIATIO	N SURVE	EYS, WO	RK PIPE	AND CON		ð
IADC Manufa	cturer	REE		8 STAGE	MOTOR 1	27 1 9.1	Density	/iscosity	1170 58	117		21:45	0 3633.2 5 3488.8	5 88	9.70 3.60	90.8 92.5						,				-,			
Se		(413M-A E2289	1GZ 1	GAP SUB	GS509 1	28 1 1.6	54 pH		SHAKE	R SH4	AKER	22:30) 3662.0) 3690.9		0.70 1.30	91.9 93.6		E											
		5 9.5 5 9.5	1	SLIDE RE	AMER 1	21 58 1.4 30 60 0.9	13 Depth		3597.00 92			Equipment Name	ONTROL Hours Run	Inta Der		Over Flow Density	Under Flow Density	\square											
Depth O	Dut (m)		5	6 4.5" D	P 1	30 00 0.8 35 80 48 30 60 0.7	67	ation	1			Centrifuge A Centrifuge A	11 4	.00	1180 1180	1160 1160	1900 1900	E											
Depth Total Drille		2083.0 1710.0	0 1 0 1	5" JAI	RS 1	30 58 5.2 30 60 0.7	Pump #		iner Size SF	_		MUD MATI	EDIAL 2					Ħ	$- \square$	+									
Hrs Run ' Cumulative Hr		2.50 25.50	57	4.5" D	P 1	35 80 554	<u>.,</u> 1		127 10			MOD MATI	Produc			Amount	Туре												
Entr		7-Dec-2			Sing	00112	0 Remark											Ħ		+									
TI TO MDC		Gage ODC Reason Pulled		Total Weight of DC		3793.0																	LOW	ER TRA	VEL S		LIMITS,	, MCWS,	, DRILL CK, SLIPS,
LOC	-	Total Run (m/hr)	57.06	Weight of String		70.0			P SPEED									ELEV		, DOG	COLLAR								IANIFOLD
BRG MITTRES DR	ILLED				1000							_																	
BRG METRESOR From T 3591.00 379	illed o D-R 3.00 DRI	LL 50	WOB HC	Hole Drag	up 11	Down 2	1 Pump 2	# Pres 7150	ssure	Strokes/m 52 @ 52 @	3648.00	BOILER	ίο Ηοι	IrsPus	pH	04	ckTemp	SAFETY											

			FR	ONT P	AGE S	UMMAR	Y			•	our Sheet Seri			Vender 8	Software \			Year	Month	Day	DAILY				OP RM		Page 2	of 4
License No 32574		Well Name ARCRES H								s 1	urface Location	465_2016 8 W6	1219_1A	B	lov.	Loc Type DLS	Unique W	201 fell ld -35-081-1		2 19	(2.) Detailed (3.) H2S Sig (4.) Well Lice	ins Posted if Rec ence & Stick Dia	eekly (Using Che quired	ick List)	AL RT AL RT AL RT AL RT	6	:AOI)
Operator ARC Res Operator's AF		s Ltd.							ion Drillin	g, div of I	PDC				ig No 65	Well Type	но	RIZ		Re-Entry	(5.) Flare Lin (6.) BOP Dri (7.) Visually	nes Staked Ils Performed Inspected BOPs	s-Flare Lines & I		AL RT AL RT AL RT			
16DRL00 Signature Of	Operator's R	epresentative							Df Contractor's R						P	09-Dec	-2016	<u> </u>	18:00		(2.) CAODC (3.) Mast Ins	Rig Safety Insp	/ Meeting (one/cr xection Checklist Raising or Lower	(one/rig/month)	RT			
ALLEN I Code	UNGA	2	3	4	5	6	7	ROD T 8	OMPKINS 9	10	11	12	13	14	1	5 16	17	18	19	20	(5.) Motor Ki 21		23	24	25		ly Bushing	3901
	Rig Up	Drill Actual	Reaming	Coring	Cond Mud & Circ	Trips	Rig Service	Repair Rig	Cut Off Drilg Line	Dev Survey	Wireline Logs	Run Csg & Cement	Wait On Cement	Nipple BOP	Te BC	st Drillstem DP Test	Plug Back	Squeeze Cement	Fishing	Dir Work	Safety Meeting	Tear Down	Waiting On	Rig Watch	Other	TOTAL	FUEL @	08:00 HRS Boller 9530
Tour 1		4.50					0.25			3.00					0.	25					0.25	-				8.00 12.00 #	Time 06:00 Current Condition	-1
SUDO Tour 3		2.50					0.25			1.25																4.00	OVERCAST Wind Direction E	Wind Strength UP TO 29 KM/H
TOTAL	_	14.25			FRIC		0.75			8.00					0.	25					0.75	5				24.00		0.00
TO BITS	UR	1 si				OBRI		ECORD					N SURVEY	•				TIME LO						START	U.1	00	END TIME	0.00
	Number	4	No	Comp 159MI	onent	OD ID Len	şth		ype Water] 01 🗹		Time	Depth 2871.5	Deviat	tion 2.10	Direction 90.2	Type		To Elaps	ed Code			Details	Of Operation	ons In Sequ	ance & Rema	arks	
IAI	Size DC Code	159	1	NEAR BIT	INC SUB	135 1 1.0	14 Time		Other 06:30			02:00	2885.4	8 92	2.10 1.60	89.4 88.3												
Manu	ifacturer	REEI	<u> </u>	8 STAGE	LEX MONEL	127 1 9.1 118 70 9.4	9 Funnel V	<u> </u>	1175 56	-	_	02:30	2913.2 2927.1	7 90	0.60 0.60	89.6 87.9			_									
s	Type Serial No	E2289		GAP SUE		128 1 1.6	i4 pH		SHAKER				2941.1		1.60	88.2												
	E E	9.5 9.5 9.5 9.5		SLIDE RE		121 58 1.4			3093.00 85			Equipment Name	Hours		ake nsity	Over Flow Density	Under Flow Density		+									
	Out (m)	3140.0	0 5	4.5" D	P	135 80 48. 130 60 0.7		ition				Centrifuge /	1 8.	.00	1170	1090	1745											
Dep Total Dr	th In (m) tilled (m)	2083.0 1057.0	$\frac{1}{10}$	5" JA	RS	130 58 5.2 130 60 0.7	Pump #		er Size SPI	_	Hrs Run																	
Hrs Ru Cumulative	H	4.50 15.7	57	CROSSOV 4.5" D	P	135 80 554	.97	SINGLE	21 10	4 28000	0.50	MUD MAT	ERIALS AD Product			Amount	Туре		+									
	ntry Date	17-Dec-2	<u>.</u>		Sta Sin	^{gles} 19.4	3 Remarks											\square		\square								
TI TO MDC	entitoel	Gage ODC		Kelly Down		-4.9 3140.0	-																				TS, MCW	
LOC BRG		Rasson Puled Total Run (m/ht)	57.11	Weight of DC		70.0												ELEVA	ATORS,	DOG	COLLAR							CK, SLIPS, MANIFOLD
METRES D	RILLED To D	-R-C RPM	WOB HO	Hole Drag		B Down 1	Dump		sure S	trokes/mir	Depth	BOILER						VALVE	ES AND	LINES	5							
Ħ				Torque At	Bottom	1020	1	6440 6670	œ	52 @ 52 @	2846.00		lo Hou	ırsRun		pH St	ackTemp	SAFETY			afety Topic				MEHL		MAG)P
то	ur	2 si	SNATURE OF	Fill On		N PREV	1 DST	7020	œ	52 @	3058.00							DERRICK	CONNEC	TIONS				73 Start	TIME 8:	3528 00	END TIME 2	20:00
BITS			DF	RILLING A	SSEMBL	_	MUD R	ECORD				DEVIATIO	N SURVEY	_				TIME LO										
Bit	Number	4 159	No 1	Comp 159M	onent	OD ID Len 159 1 0.2	gth 11	Mud T	ype Water Other	⊐∞⊠			Depth 5 3226.3	_	1.30	Direction 90.4	Туре	From	To Elaps	ed Code			Details	Of Operation	ons In Sequ	ance & Rema	arks	
IAI	DC Code		[1	NEAR BIT 8 STAGE			14 Time 2 Density	_	16:00 1170	19:1		11:45	5 3255.3 5 3284.3	0 89	1.50 9.50	90.2 90.8			_									
Manu	facturer Type	REEI SK413M-A	<u> </u>	NON MAG FL	LEX MONEL	118 70 9.4	9 Funnel V Fluid Los		56	58			5 3315.5 5 3371.1	_	9.50 1.20	91.1 89.2												
s	Serial No	E2289	24 2	NON MAG FL	LEX MONEL	118 70 18.	99 Location	Of Sample	SHAKER 3388.00	SHA 3563		14:45 SOLIDS C	3401.1	4 92	2.60	89.1												
	F	9.5 9.5 9.5 9.5	1	SLIDE RE	ER SUB	121 58 1.4 130 60 0.9			76	92		Equipment Name	Hours Run	Der	ake nsity	Over Flow Density	Under Flow Density											
Depth	Out (m)	2083.0	0 1	4.5" D crossov	ER SUB	135 80 48. 130 60 0.7	Circula					Centrifuge I Centrifuge I		.00	1180 1180		1890 1900		_									
Total Dr		1508.0	0 1	5" JA	ER SUB	130 58 5.2 130 60 0.7	18 1	71.	er Size SPI	4 28700	Hrs Run 2.00	MUD MAT	ERIALS AD	DED														
Cumulative	in Today Hrs Run	7.25	57	4.5" D	P	135 80 554		_{single} 1	27 10	4 28700	8.50		Product	t		Amount	Туре											
Er		17-Dec-2	016 0	Drill Pipe Kelly Down	Sin	0.0 e	0 Remarks								_				_									
TI TO MDC		Gage ODC Resson Puled		Total Weight of DC		3591.0																					TS, MCW	S, DRILL CK, SLIPS,
LOC BRG		Total Run (mhr)		Weight of String	•	70.0		ED PUMP	SPEED										ATORS, ES AND	DOG	COLLAR	RS, FUN	CTION (CHOKE,	FLARE	STACK I	GNITOR,	MANIFOLD
From	To D	-R-C RPM	WOB HO	Hole Drag	Up 🤇	Down 2	4 Pump		sure S	trokes/mir 52 @	Depth 3218.00	BOILER				-		LINES		AER II	NSPECT	TION &	VISUAL	ly insp	ECTED	FLARE A	ND DEG	ASSER
				Torque At Fill On		1050	0 2 2	7280 7510		52 @ 52 @	3365.00	Bollern	lo Hou	Irskun		pH St	ackTemp	BOP DRI	LL	S	afety Topic			75	MEHL	3528	MAC	CP
то	UR	3 si	GNATURE OF	DRILLER	ERIC	OBRI	EN																	START	TIME 20	:00	END TIME 2	24:00
BITS	Number	4	DF	Comp	SSEMBL onent	OD ID Len	MUD R	ECORD Mud T	ype Water	- 		DEVIATIO Time	N SURVEY	S Deviat	tion	Direction	Type	TIME LO	C To Elaps	ed Code			Details	Of Operatio	ons In Sequ	ance & Rema	arks	
Bit	Size	159		159MI NEAR BIT	M BIT				Other) 3719.8) 3748.6		0.90 0.00	91 92.1				Ħ								
	DC Code Ifacturer	REEI	+1	8 STAGE	MOTOR	127 1 9.1	2 Density	iscositv		+			-	-	-			\models	+	+								
	- F	SK413M-A	1GZ 1	NON MAG FL GAP SUE	3 GS509	118 70 9.4	Fluid Lo:	35																				
5	- E	E2289 9.5 9.5	1	NON MAG FL	AMER	118 70 18. 121 58 1.4	3 Depth	Of Sample		+		SOLIDS C	Hours		ake	Over Flow	Under Flow	Ħ	+	± 1								
Depth		9.5 9.5		crossov 4.5" D		130 60 0.9 135 80 48.						Name Centrifuge /	Run /1 4.	.00	nsity 1180	Density 1160	Density 1900											
Dep	th In (m)	2083.0	1	CROSSOV 5" JA		130 60 0.7			ner Size SPI	M Pressure	Hrs Run	Centrifuge I	12 4.	.00	1180	1160	1900		F	± 1								
Total Dr Hrs Ru		1710.0 2.50	1	CROSSOV	ER SUB	130 60 5.2 130 60 0.7 135 80 554	⁷⁸ 2		27 10	_		MUD MAT	ERIALS AD			A	Torre		+									
Cumulative	-	25.50 17-Dec-2	24	Drill Pipe	Sta	nds 697.2	4		27 10	4 30750	2.00		Product			Amount	Туре											
		Gage	010	Kelly Down		-0.5	5											Remarks	5									
TO MDC LOC		ODC Reason Pulled Total Run (m/hr)	57.06	Total Weight of DC		3793.0												LINE A	ND DR	ILL LI	VE ANCI	HOR, IN	SPECT	TONGS	& LINES	S, IRON R		CK, SLIPS,
BRG METRES D	RILLED		нс	Weight of String		70.0	REDUC	ED PUMP											ATORS, ES AND			3, FUN	UTION (JHUKE,	FLARE	STACK	GNITOR,	MANIFOLD
From	10 0	-R-C RPM	WOB	Hole Drag	up 1 1	Down 2 ⁻		7150	@	trokes/mir	3648.00	BOILER	lo Hou	<u>ırsRun</u>		pH St	ackTemp	SAFETY										
				Fill On		1200	1	7400	@ @	52 @		_		-				DERRICK	CONNEC	S	afety Topic			88	MEHL	3528	MAG	CP

											our Sheet Seria	I Number		Vender S	Software Versi	ion		Year	Mont	n Day	DAILY	CHECKS			OP RM		Page 3	of 4
License No	W	/ell Name				JMMAR	Y			5	iurface Location	465_20161	1219_1A	Pr	10V	2016.6.14.	Unique W	20 ⁻		2 19	(1.) Daily Wa (2.) Detailed	alk Around Inspe	eekly (Using Che	ck List)	AL RT AL RT AL RT			
32574 Operator ARC Res		RCRES H	Z Septim	us H11-34	I-81-18W6	6		Contractor	an Daillina		<u>1-34-81-1</u>	8 W6		B(R) 46	ig No	DLS Well Type	102/09 HO	-35-081-	18W5	Re-Entry	(4.) Well Lion (5.) Flare Lin	ence & Stick Dia	quired agram Posted		AL RT AL RT AL RT			
Operator's AFE	E							Contractor 35	ion Drilling s Job No	, uiv oi i	-00			140	Spud	Date Time 09-Dec			18:00		(1.) Rig Site (2.) CAODC	Health & Safety Rig Safety Insp	s-Flare Lines & E / Meeting (one/cr xection Checklist	rew/month) (one/rig/month)	AL RT			
Signature Of C	Operator's Rep	resentative						Signature C	Df Contractor's Ri OMPKINS	g Manager					Rig H	Release Date Tim	2	i			(3.) Mast Ins (4.) Crown S (5.) Motor Ki	spection before F Saver Checked	Raising or Lower	ing	RT			
Code	1 Big	2	3	4 Coring	5 Canad Mard	6	7 Bin	8 Basacia	9	10 Devi	11 Wireline	12 Burn Can	13	14	15	16	17 Blue	18	19	20	21 Safatu	22	28	24 Bin	25		ELIEL @	3901 08:00 HRS
	Rig Up	Actual	Reaming	Coring	Cond Mud & Circ	Trips	Service	Repair Rig	Cut Off Drilg Line	Dev Survey 3.00	Logs	Run Csg & Cement	Wait On Cement	Nipple BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fishing	Dir Work	Safety Meeting 0.25	Tear Down	Waiting On	Rig Watch	Other	TOTAL 8.00	5070	Boller 9530
Tour 1		7.25					0.25			3.75					0.2	5					0.50	-	1			12.00	O6:00 Current Condition OVERCAST	-1
Tour 3		2.50					0.25			1.25						-										4.00	Wind Direction E	Wind Strength UP TO 29 KM/H
TOTAL		14.25					0.75			8.00					0.2	5					0.75	ō			0	24.00	1 Aut	0-00
TOL	ur 1	SIG				OBRI																		START	TIME U:	:00	END TIME	8:00
BITS Bit I	Number	4	No	Compo	SSEMBLY	OD ID Leng	MUD RI		ype Water	ז∾וע		Time	Depth	Deviat		Direction	Туре	TIME LO	To Elaps	ed Code			Details	Of Operation	ons in Sequ	uance & Rem	arks	
	Size	159		159MI NEAR BIT		159 1 0.2			Other		-		2955.0 2968.9	_	0.50 0.00	87.6 88.8												
IAD Manut	C Code	REED	41	8 STAGE	MOTOR 1	127 1 9.1	2 Density	ice e citu					2982.8 2996.7		1.10 0.00	88.3 87.3												
		K413M-A	1GZ 1	NON MAG FL		118 70 9.4	9					04:45	3010.7 3024.6	1 90	0.30	88.3 89.1												
S		E22892		NON MAG FL		118 70 18.5 121 58 1.4	Depth	Of Sample	-			SOLIDS CO	ONTROL	÷, -														
	9.	5 9.5	1	CROSSOV	ER SUB 1	130 60 0.9	4 PVT					Equipment Name	Hours Run		ake nsity 1170	Over Flow Density	Under Flow Density 1745											
Depth		3140.0 2083.0		4.5" D crossov	ER SUB 1	135 80 48.6 130 60 0.7						Centrifuge #		.00	1170	1090	1745											
Total Dri		1057.0	0 1	5" JAI		130 58 5.2 130 60 0.7			ver Size SPM	Pressure 1 28000	Hrs Run		ERIALS AD	0050														
Hrs Rur Cumulative H		4.50	57	4.5" D	P 1	135 80 554	27	SINGLE		. 20000		MUD MAT	Product			Amount	Туре		_									
Ent	try Date 1	7-Dec-2	<u> </u>	Drill Pipe Drill Pipe	Star Sing																							
	STRUCTU	Gage		Kelly Down Total		-4.97 3140.00	-											Remark		POWN	SAVED					DS & I IM	TS, MCW	
MDC LOC		Rasson Pulled Total Run (m/hr)	7.11	Weight of DC			1								+		-	LINE /	AND DR	ILL LIN	IE ANCI	HOR, IN	SPECT	TONGS	& LINE	S, IRON F	OUGHNE	CK, SLIPS
BRG METRES DE		R-C RPM		Weight of String	TION	70.00	REDUC	ED PUMP							-				ES AND			(0,101	onone	JHORE,	LANE	OTAOICI	on ron,	
From		-C RFm		Hole Drag		3 Down 14		6440	@	rokes/mir	2846.00	BOILER BoilerN	lo Hou	ursRun	pł	- St	ackTemp	SAFETY										
				Fill On		10200	2 1 1	6670 7020		52 @ 52 @	2984.00								K CONNEC		afety Topic			73	MEHL	3528	MAG	CP
TOL	R 2	SIG	NATURE OF	DRILLER	BRENDE	N PREVO	DST																	START	uma 8:	00	END TIME 2	20:00
BITS			DF	Comp	SSEMBLY	OD ID Leng	MUD R		ype Water			DEVIATIO Time	Depth	S	tion	Direction	Туре	TIME LO	OG To Elaps				Dotaile	Of Operativ	one in Sog	uance & Rem	arke	
Bit	Number Size	4 159	1			159 1 0.2		Muu I	Other][⊼]		15:45	i 3430.4	4 93	3.70	89.5	ijpe		TO Elaps	Code			Details	or operation	ons in Sequ	dance & Ken	aiko	
IAD	OC Code			NEAR BIT		135 1 1.0	4 Time 2 Density			-	_	17:15	3459.6 3342.7	6 90	1.30 0.70	90.7 91.3			_									
Manut	-	REED K413M-A	<u> </u>	NON MAG FL	EX MONEL	118 70 9.4	9 Funnel V						5 3488.8 5 3517.4	_	8.60 8.50	95.5 91.8												
S	erial No	E22892	24 2	NON MAG FL	EX MONEL	118 70 18.5	PH Location	Of Sample				19:00 SOLIDS CO	3546.5	9 87	7.20	91.8												
		.5 9.5 .5 9.5	1	SLIDE RE	AMER 1	121 58 1.4 130 60 0.9						Equipment Name	Hours Run	Int Der		Over Flow Density	Under Flow Density											
Depth	Out (m)		5	4.5" D	P 1	135 80 48.6	7 Circula	tion				Centrifuge A Centrifuge A			1180 1180	1160 1160	1890 1900											
Dept Total Dri		2083.0 1508.0	0 1	CROSSOV	RS 1	130 58 5.2	0 Pump#		ner Size SPM	-	Hrs Run									+								
Hrs Rur		7.25		CROSSOV		130 60 0.7 135 80 554			27 10	4 28700		MUD MATI	ERIALS AD Produc			Amount	Туре											
Cumulative H	-	23.00 7-Dec-2	17	Drill Pipe	Star	nds 495.0	4		2/ 10	+ 20/UL	0.50			-	+		.,,,-											
				Kelly Down		-0.38	B										-	Pemark										
TO MDC		ODC Resson Pulled		Total Weight of DC		3591.00	2																				TS, MCW	S, DRILL CK, SLIPS
LOC BRG	BILLED	6000 KGA (10.01)		Weight of String		70.00) REDUC	ED PUMP	SPEED									ELEV		DOG (OLLAR							MANIFOLD
From	To D-F	R-C RPM	WUB	Hole Drag		Down 24	Pump i		sure St	rokes/mi 52 @		BOILER						DID W	/EEKLY S RT			TION &	VISUAL	LY INSP	PECTED	FLARE	ND DEG	ASSER
Ħ	+		\equiv	Torque At Fill On		10500	2	7280	œ	52 @ 52 @	3365.00	BoilerN	Ιο Ηοι	ırsRun	pł	l St	ackTemp	SAFETY BOP DRI		Sa	afety Topic			75	MEHL	3528	MAG	CP
TOL	JR 3	SIG	NATURE OF	_		OBRI	4	1/510	C.	v2 @	1 3515.00								nulu						TIME 20		END TIME 2	24:00
BITS			DF	ILLING A	SSEMBLY	Y	MUD RI	ECORD				DEVIATIO	N SURVEY	s				TIME LO	DG									
	Number	4	No 1	Compo 159MI	nent (OD ID Leng	th 1	Mud T	ype Water Other	ז∾ע		Time	Depth	Deviat	tion	Direction	Туре		To Elaps	ed Code			Details	Of Operation	ons In Sequ	uance & Rem	arks	
IAD	Size IC Code	159	-1	NEAR BIT	NC SUB 1	135 1 1.0	4 Time							-	\mp			H										
Manuf	facturer	REED	2 1	8 STAGE		118 70 9.4	2 Density 9 Funnel V													\pm								
S		K413M-A	1GZ 1	GAP SUB	GS509 1	128 1 1.6	4 pH		-	_								\vdash		+								
	Jets 9.	5 9.5	1	SLIDE RE	AMER 1	121 58 1.4	3 Depth	or cample	<u> </u>			SOLIDS CO	Hours	Int		Over Flow	Under Flow	Ħ		+								
Depth		5 9.5		crossov 4.5" D	ER SUB 1	130 60 0.9 135 80 48.6	4					Name Centrifuge #		.00	1180	Density 1160	Density 1900	E										
Depti	h In (m)	2083.0	0 1	CROSSOV	ER SUB 1	130 60 0.7 130 58 5.2			ner Size SPM	Pressure	Hrs Run	Centrifuge I	4	.00	1180	1160	1900			\square								
Total Dri Hrs Rur		1710.0	0 1	CROSSOV	ER SUB 1	130 60 0.7	8 2	SINGLE 1	27 10	4 30750	1.50	MUD MATI	ERIALS AD	DDED						+								
Cumulative H		25.50	57	4.5" D Drill Pipe	P 1 Star	135 80 554. nds 697.24	<u>-</u> 1	SINGLE 1	27 10	4 30750	2.00		Produc	t		Amount	Туре	\vdash		+								
Ent CUTTING S		7-Dec-2 सन			Sing		Remarks			_	ц				-													
ті то		Gage ODC		Total		-0.5: 3793.00					ŀ							Remark FUNC	STION C	ROWN	SAVER	UPPER	LOWEF	RTRAVI	EL STO	PS & LIM	TS, MCW	S, DRILL
MDC LOC BRG	\exists	Total Run (m/m)	7.06	Weight of DC Weight of String	<u> </u>	70.00												LINE A	AND DR	, dog (IE ANCI	HOR, IN	SPECT	TONGS	& LINE	S, IRON F	OUGHNE	CK, SLIPS, MANIFOLD
METRES DR		R-C RPM	L.C.	LE COND			REDUC	ED PUMP # Pres		rokes/mi	n Depth							VALV	ES AND	LINES								
E	\pm			Hole Drag Torque At		Down 21	2	7150	®	52 @ 52 @	3648.00	BOILER BoilerN	Ιο Ηοι	ursRun	pł	l St	ackTemp	SAFETY						,		,		22
\square				Fill On	Bottom			1400	œ	52 @	3/64.00							DERRICI	K CONNEC		afety Topic			88	MEHL	3528	MAG	<u>۲</u>

			FR	ONT P	AGE SI	UMMAR	Y			1	our Sheet Seri	al Number 465_2016'	1219_1A	Vender	Software V RM	/ersion IS 2016.6.14.	.37064	Year 2	r Mor 2016	nth Day 12 1	(1.) Daily W	CHECKS	ection		OP RM		Page 4	of 4
License No 32574		Well Name ARCRES H	Z Septim	us H11-34	4-81-18W(6		Contractor		s 1	lurface Location	8 W6			IC	Loc Type		Well Id 9-35-08	1-18W5	Do Foto	(2.) Detailer (3.) H2S Si (4.) Well Lid	d Inspection - We gns Posted if Re sence & Stick Dia nes Staked	eekly (Using Cho quired	eck List)	AL RT AL RT AL RT AL RT	(DC
ARC Re:		s Ltd.						Precisi	ion Drilling	g, div of I	PDC				65	Well Type		RIZ		Re-Entry	(6.) BOP Dr (7.) Visually	ills Performed Inspected BOP	s-Flare Lines & I		AL RT			
16DRL0 Signature Of	083 Operator's I	Representative						35 Signature 0	Df Contractor's R	ig Manager					R	09-Dec	-2016	1	18:00	D	(2.) CAODO (3.) Mast In	Rig Safety Insp	/ Meeting (one/c xection Checklist Raising or Lowe	t (one/rig/month)	RT		$\langle igcup \rangle$	
ALLEN I Code	LUNGA 1	L 2	3	4	5	6	7	ROD T	OMPKINS 9	10	11	12	13	14	1	5 16	17	18	19	20		alls Checked	23	24	25	ľ	elly Bushing	Op Fuel 3901
	Rig Up	Drill Actual	Reaming	Coring	Cond Mud & Circ	Trips	Rig Service	Repair Rig	Cut Off Drilg Line	Dev Survey	Wireline Logs	Run Csg & Cement	Wait On Cement	Nipple BOP	Te: BO		Plug Back	Squeeze Cement		Dir Work	Safety Meeting	Tear Down	Waiting On	Rig Watch	Other	TOTAL	ig .	08:00 HRS
Tour 1		4.50					0.25			3.00 3.75					0	25				-	0.25	-	-			8.00 12.00	5070 Time 06:00	9530 Temp -1
SUDO Tour 3		2.50					0.25			1.25					0.	2.5					0.00					4.00	OVERCAS Wind Direction E	Wind Strength UP TO 29 KM/H
T TOTAL		14.25					0.75			8.00					0.	25					0.75	5				24.00		
то	UR	1 si				OBRI																		START	TIME 0:	:00	END TIME	8:00
BITS	Number	4	DR No	Comp		OD ID Leng	MUD RI	ECORD Mud T	ype Water	ז∾וס		DEVIATIO Time	N SURVEY Depth	S Devia	tion	Direction	Type	TIME From	To Ela	psed Code			Details	Of Operatio	ons in Sequ	uance & Ren	arks	
	Size	159		159MI NEAR BIT		159 1 0.2	1 4 Time		Other				5 3038.5 5 3052.4	_	0.20 0.80	88.7 87.5												
	DC Code	REEI	<u>+</u> 1	8 STAGE	MOTOR	127 1 9.1	2 Density					06:30	0 3066.3 0 3080.3	8 9	0.10 1.30	87 87.5				-								
	Туре	SK413M-A	1GZ 1	NON MAG FL		118 70 9.4	9	<u> </u>		_		07:00	0 3094.9 5 3109.5	3 9	0.10	88.4 89.4				-								
5	Serial No Jets	E2289 9.5 9.5		NON MAG FL		118 70 18.1	Location	Of Sample		-		SOLIDS C	ONTROL															
	t t	9.5 9.5	1	CROSSOV	ER SUB 1	130 60 0.9	4 PVT					Equipment Name	Run	De	take insity	Over Flow Density	Under Flow Density											
	n Out (m) ith In (m)	3140.0 2083.0	$\frac{1}{100}$	4.5" D	ER SUB 1	135 80 48.1 130 60 0.7	8 Circula					Centrifuge I	1 8	.00	1170	1090	1745			_								
Total D	rilled (m)	1057.0	$\frac{1}{1}$	5" JAI		130 58 5.2			er Size SPN	-	Hrs Run		ERIALS AD							-								
Hrs Ru Cumulative		4.50	57	4.5" D	P f	135 80 554	97			20000		MODIMAI	Produc			Amount	Туре											
Er	ntry Date	17-Dec-2	!·	Drill Pipe	Sta	^{gles} 19.4	3 Remarks				Ц						-									-		
	STRUC	Gage		Kelly Down		-4.97 3140.00	-											Rema				LIPPER			FL STO	PS & LIM	ITS, MCW	
MDC LOC		Rasson Puled Total Ran (m/hr)	57.11	Weight of DC	-		1											LINE	AND D	RILL LI	NE ANC	HOR, IN	SPECT	TONGS	& LINE	S, IRON	ROÚGHNI	ECK, SLIPS, MANIFOLD
BRG METRES		D-R-C RPM		Weight of String		70.00	REDUC	ED PUMP			Death						_		VES AN			10,101	onon	onone,	I LAILE	UIAON	ionin on,	
				Hole Drag Torque At		3 Down 14		6440	œ	trokes/mir	2846.00	BOILER	Νο Ηοι	ursRun		pH St	ackTemp	SAFET	Ŷ									
				Fill On		10200	<u>1</u> 1	6670 7020		52 @ 52 @	2984.00							DERRI	CK CONNE		Safety Topic			73	MEHL	352	MA B	CP
то	UR	2 si	SNATURE OF	DRILLER	BRENDE	N PREVO	DST																	START	11ME 8:	00	END TIME	20:00
BITS			DF	Comp		OD ID Leng	MUD R		ype Water			DEVIATIO	N SURVEY	'S Devia	tion	Direction	Туре	TIME	LOG To Elaj	nsed Code			Details	Of Operatio	ons in Sea	uance & Ren	arks	
Bit	Number Size	4 159	1	159MI		159 1 0.2		mod 1	Other								.,,						Details	or operau				
	DC Code			NEAR BIT			4 Time 2 Density																					
Manu	ufacturer Type	REEI SK413M-A		NON MAG FL		118 70 9.4	Fluid Los																					
5	Serial No	E2289	24 2	NON MAG FL	LEX MONEL	118 70 18.	pH Location	Of Sample				SOLIDS C	ONTROL															
	1	9.5 9.5 9.5 9.5		SLIDE RE		121 58 1.4 130 60 0.9						Equipment Name	Hours Run		take Insity	Over Flow Density	Under Flow Density			-								
	n Out (m)		- 1	4.5" D		135 80 48.1 130 60 0.7	Circula	tion				Centrifuge /		.00	1180 1180	1160 1160	1890 1900			-								
Dep Total Dr	rilled (m)	2083.0	10	5" JAI	RS 1	130 58 5.2	0 Pump#	21.5	ner Size SPN		Hrs Run																	
	ın Today	7.25	57	CROSSOV		130 60 0.7 135 80 ₅₅₄	8 1 2		27 10	4 28700 4 28700		MUD MAT	ERIALS AD Produc			Amount	Туре											
Cumulative	Hrs Run htry Date	23.00 17-Dec-2		Drill Pipe Drill Pipe	Sta	nds 495.0	7																					
	STRUC	Gage		Kelly Down		-0.3	3											Rema	rks									
TO MDC LOC		ODC Resson Puled Total Run (m/m)	5.57	Weight of DC		3591.00	1											LINE	AND D	RILL LI	NE ANC	HOR, IN	SPECT	TONGS	& LINE	S, IRON	ROUGHN	/S, DRILL ECK, SLIPS,
BRG	RILLED			Weight of String		70.00		ED PUMP										VAL	VES AN	D LINE	s							MANIFOLD
From	To I	D-R-C RPM	WOB	Hole Drag	up S			7100	œ	trokes/mir 52 @	1 Depth 3218.00	BOILER	No Hou	IrsRun		pH St	ackTemp	LINE	SRT	I AEK	MOPEU	NON &	VISUAL		CUIED	FLAKE	AND DEG	AUUER
				Torque At Fill On		1050	2	7280 7510		52 @	3365.00	Donerr		aronum			ackreinp	BOP D			Safety Topic			75	MEHL	352	MA B	CP
то	UR	3 si	GNATURE OF	DRILLER	ERIC	OBRI	EN																	START	11ME 20	:00	END TIME	24:00
BITS		-	DF		_		MUD R	ECORD				DEVIATIO Time	N SURVEY	S	tion	Direction	Tyre	TIME	LOG To Ela	need Cart			Deta:"-	Of Onered	one in Ca	uance & Ren	arke	
Bit	Number Size	4		Compo 159MI	M BIT		1	Mud T	ype Water Other	_ • Ø		Time	Depth	Devia		Direction	Туре	From	10 Ela	paed Code			Details	Un Operatio	ons in Sequ	udnice & Ren	al No	
IAI	DC Code			NEAR BIT		135 1 1.0	4 Time 2 Density		-	Ŧ										-								
Manu	ufacturer Type	REEI SK413M-A	<u> </u>	NON MAG FL	LEX MONEL	118 70 9.4	9 Funnel V Fluid Los			1				\pm														
8	Serial No	E2289	24 2	GAP SUB	LEX MONEL	118 70 18.1	bo Location	Of Sample				SOLIDS C	ONTROL															
		9.5 9.5 9.5 9.5	1	SLIDE RE	AMER 1	121 58 1.4						Equipment Name	Hours	In De	take msity	Over Flow Density	Under Flow Density			+								
	n Out (m)		5	4.5" D	P	135 80 48.1 130 60 0.7	57	ition				Centrifuge I Centrifuge I		.00	1180 1180		1900 1900		\models	+								
Dep Total Dr	ith In (m) rilled (m)	2083.0	0 1	5" JAI	RS	130 58 5.2	Pump#		ner Size SPN		Hrs Run																	
Hrs Ru	ın Today	2.50	57	CROSSOV		130 60 0.7 135 80 554			27 10 27 10			MUD MAT	ERIALS AD Produc			Amount	Туре			+								
Cumulative		25.50 17-Dec-2		Drill Pipe Drill Pipe	Sta		4					_		_						+								
		Gage		Kelly Down		-0.5	5											Rema	rks									
TO MDC LOC		ODC Rasson Pulled Total Run (m/m)		Total Weight of DC		3793.00	<u>'</u>											LINE	AND D	RILL LI	NE ANC	HOR, IN	SPECT	TONGS	& LINE	S, IRON I	ROUGHN	/S, DRILL ECK, SLIPS,
LOC BRG	RILLED			Weight of String		70.00		ED PUMP	SPEED									ELE\		S, DOG	COLLAR							MANIFOLD
From	To I	D-R-C RPM	WOB HO	Hole Drag		Down 2	1 Pump : 2		sure S	trokes/mir 52 @		BOILER																
Ħ	-			Torque At Fill On		1200	2 1	7400		52 @ @	3764.00	BoilerN	No Hou	ursRun		pH St	ackTemp			CTIONS	Safety Topic			88	MEHL	352	MA	CP
							_	1	8	@	1 1				1			UERRI	UN CONNE	UNUNS				88		352		

											Tour Sheet Seria	Number		Vender S	oftware Versio	n		Year	Month	Day	DAILY CHECKS			OP RN		Page	1 of 3
License No		Well Name				SUMMAR	Y				Surface Location	65_20161	220_1A	PR	av.	Loc Type	Unique We	2016	12	20	(1.) Daily Walk Around Insp (2.) Detailed Inspection - W (3.) H2S Signs Posted If Re	eekly (Using Check	k List)	AL RT	T /	CAG	DC
32574 Operator ARC Rese		ARCRES H	Z Septim	us H11-34	4-81-18W	V6		Contractor	ion Drilling		11-34-81-1	8 W6		B(Rig 46	No	DLS Well Type	102/09 HOF	-35-081-18V	15	Re-Entry	(4.) Well Licence & Stick Di (5.) Flare Lines Staked (6.) BOP Drills Performed	agram Posted		AL RT AL RT]]		
Operator's AFE								Contractor 35	's Job No	<i>, uiv oi</i>	FDC			140	Spud D	late Time 09-Dec-			8:00		 (7.) Visually Inspected BOP (1.) Rig Site Health & Safety (2.) CAODC Rig Safety Insp 	y Meeting (one/cre	w/month)	AL RT			
Signature Of Op	perator's Re	epresentative						Signature (Of Contractor's R	ig Manager					Rig Re	lease Date Time		I			(3.) Mast Inspection before (4.) Crown Saver Checked (5.) Motor Kills Checked	Raising or Lowerin	9	RT			
Code	1 Rig	2 Drill	3	4 Coring	5 Cond Mud	6 d Trips	7 Rig	8 Repair	9	10 Dev	11	12 Run Cen	13 Wait On	14 Nicole	15 Test	16 Drilletern	17 Plug		19 shing	20 Dir	21 22 Safety Tear	23	24 Ria	25 Other		ELIE	5319 @ 08:00 HRS
	Rig Up	Drill Actual	Reaming	Coring	Cond Mud & Circ	s mps	Rig Service	Repair Rig	Cut Off Drilg Line	Survey 2.00	Wireline Logs	Run Csg & Cement	Wait On Cement	Nipple BOP	Test BOP	Drillstem Test	Plug Back	Squeeze F Cement	sning	Dir Work	Safety Meeting Down	Waiting On	Rig Watch	Ouler	TOTAL 8.00	Rig 9751	Boller 9530
Tour 1		1.50			4.00	5.00	0.25			1.00	-										0.25				12.00		-4
SUD Tour 3						1.75	0.25					0.50								1.00				-	5 4.00	Wind Direction	Wind Strength UP TO 19 KM
TOTAL		7.00			4.00		0.75			3.00		0.50								1.00	0.75			<u> </u>	24.00	≥ _{FAIR}	0.00
TOU	ir 1	SIC			-	OBRIE																	START	etime (:00	END TIME	8:00
BITS Bit N	Number	4	D: No	Comp		OD ID Lengt	MUD RI	ECORD Mud T	ype Water	ک ا ان 1		Time	Depth	Deviati		Direction	Туре			d Code					quance & R	emarks	
	Size	159		159MI		159 1 0.2 135 1 1.0			Other		-		3777.5	_	.70 .70	90 90.8		3:30 5:30	2.00	10 A	RILL 159MM HOL	EVIATION S	URVEY	S, WORK			
IADC Manuf	C Code	REE	<u>+1</u>	8 STAGE	MOTOR	127 1 9.12	Density	iscosity	01:30 1170 57	05:4			3835.6 3864.9	_	.40 2.10	89.9 89.5		5:30 5:45 5:45 7:45		6	IG SERVICE, FUN SECS TO CLOSE RILL 159MM HOL				NDS TO C	LUSE. LUW	ER PIPE RAM
	Туре	SK413M-A	1GZ 1	NON MAG FL		118 70 9.49	Fluid Los		57	5/		02:00	3894.2	0 89	.90	89.3 88.9		7:45 8:00		21 C	REW CHANGE HAR	ANDOVER S	SAFETY		G WITH RI	G MANAGE	R, ARC
Se	erial No Jets 2	E2289		NON MAG FL		118 70 18.9	9 Location	Of Sample	SHAKER 3880.00	SHA 4083		02:30 SOLIDS CO	3923.3	4 91	.00	88.9			-	- I							
		9.5 9.5	1	CROSSOV	ER SUB	130 60 0.94	PVT		86	72		Equipment Name	Hours Run	Inta Der	isity	Dver Flow Density	Under Flow Density										
Depth C	- i i -	4147.0		CROSSOV		135 80 48.6 130 60 0.78	7 Circula	tion				Centrifuge A Centrifuge A		.00	1170 0	1120 0	1700 0										
Total Drill	· '-	2064.0	0 1	5" JAI	-	130 58 5.20	Pump#		ner Size SPN																		
Hrs Run Cumulative H	-	5.00 30.50	57	4.5" D	P	135 80 554.3	7	SINGLE	2/ 10	- 3190			RIALS AD Produc			Amount	Туре		-								
Entr	ry Date	17-Dec-2				ingles 0.00						LIQUIDSL	E			2	2 BBL 0 SX										
	TRUCT	Gage		Kelly Down		0.00	1					CES SEC CES WET	TER				1 BBL 1 BBL 1 BBL	Remarks			SAVER UPPER		TD A 1/				
MDC LOC		Reason Pulled	7.67	Weight of DC			1									1	1 BBL 5 SX 2 SX	LINE AN	D DRI	LL LIN	E ANCHOR, IN OLLARS, FUN	ISPECT T	ONGS	& LINE	ES, IRON	ROUGH	NECK, SLIP
BRG MITTRES DR	RILLED		ЦС	Weight of String		70.00	REDUC	ED PUMP				BARITE	1E-D			8		VALVES	AND	LINES	OLLARS, FUN						
From 1 3793.00 414	To D- 47.00 DI	RILL 50	WOB	Hole Drag	up 1	0 Down 30	- 1	7460	@	trokes/mi		BOILER BoilerN		ursRun	pH	St-	ackTemp				ES, EXPLAINE						
				Torque At Fill On	-	12000	1	7590 7640		52 @		1 2	1	8.00 8.00	10.5 10.5	5	340	LOCKOUTS		Sat	fety Topic		91	MEHL	3	1	MACP
TOU	r 2	2 sid	NATURE OF	FDRILLER	BREND	EN PREVC	ST																STARI	8	:00	END TIME	20:00
BITS			DF	RILLING A			MUD R	ECORD					N SURVEY					TIME LOG									
Bit N	Number	4	No 1	Compo 159MI		OD ID Lengt	h	Mud T	ype Water Other	⊻∾ב			Depth 4156.7	_).50	Direction 91.7	Туре	8:00 9:30	1.50		RILL 159MM HOL	E FROM 41	47M - 42	53M. TD.			IONS
IAD	C Code			NEAR BIT					08:15	10:1			4185.9 4215.2		.90 .50	91.5 92		10:30 10:30		5 C	CCUMULATED DI CIRCULATE HOLE						
Manufa	-	REEL	2 1	NON MAG FL	LEX MONEL	118 70 9.49	Funnel V	iscosity	58	58	<u> </u>		6 4237.0 6 4253.0).80).80	92 92		14:30 19:30	5.00	6B R	EVIEW CTA 2-5. F 229M, 4053M, 211		UN CAS	ING. FLC	OW CHECH	FOR 10 MI	NUTES @-
Se	erial No	E2289		GAP SUB		128 1 1.64	4 pH		SHAKER	S SHA	KERS					01		19:30 19:45 19:45 20:00		7 R	RIG SERVICE, FUN	CTION UPP					
	-	9.5 9.5	1	SLIDE RE	AMER	121 58 1.43	Depth		4120.00 82	420	0.00	Equipment	Hours Run	Inta		Over Flow Density	Under Flow Density			R	EPRESENTATIVE	S & RIG CR	REWS.				
Depth C		9.5 9.5 4253.0	0 5	i 4.5" D	P	135 80 48.6	7 Circula	tion				Centrifuge #			1170	1120	1700										
Depth	h In (m)	2083.0	1	CROSSOV		130 60 0.70 130 58 5.20	3		ner Size SPN	Pressur	e Hrs Run		-														
Total Drill Hrs Run		2170.0 1.50	- 1-	CROSSOV	ER SUB	130 60 0.70 135 80 554.3		_{single} 1	27 10	4 3190	7.00	MUD MATI	ERIALS AD				Tura										
Cumulative H		32.00	40	Drill Pipe	SI	itands 1164.10				-		BARITE	Produc	t		Amount 13	Type 8 EACH 0 EACH										
Entr CUTTING S		17-Dec-2	016 0	Drill Pipe Kelly Down	Si	ngles 0.00 -7.41				_		LIQUIDSL	IDE				1 EACH										
TO MDC		ODC Reason Pulled		Total Weight of DC		4253.00	2				F		-								SAVER UPPER E ANCHOR, IN						
LOC BRG		Total Run (mhr)	7.81	Weight of String	•	70.00	DEDUG	ED PUMP	00550										DRS,	DOG C	OLLARS, FUN						
From T 4147.00 425	To D- 53.00 DI	-R-C RPM RILL 50	WOB HC	Hole Drag		0 Down 33	Pump	# Pres	sure S	trokes/mi		BOILER															
E				Torque At Fill On	Bottom	12500	- 1	7700	œ	52 @		BoilerN 1		2.00	pH 10.5	5	340	SAFETY		Sat	fety Topic			MEHL			MACP
тои	R 3	3 _sr	NATURE OF	_		OBRIE	EN	1	œ	Q		2	1	2.00	10.5	5	340	TRIPPING					95 STAR	TIME 20	3: 0:00	END TIME	24:00
BITS		2		RILLING A				ECORD				DEVIATIO	N SURVEY	s				TIME LOG									
Bit N	-	4	No	Compo	onent	OD ID Lengt	ħ		ype Water	- °i 🗹		Time	Depth	Deviati	ion E	Direction	Туре	From To			IG SERVICE, FUN				quance & R 5 SECON		SE.
IAD	Size C Code	159	-1	NEAR BIT	INC SUB	135 1 1.04	1 Time		Other					-						6B C	CONTINUE TRIP OF CALCULATED = 17	UT OF HOL	E, FLOW ASURED	CHECK	@ 453M, M3, DIFFEI	OOH, TRIP RENCE = 1.1	RECORD - 12M3, FUNCTIO
Manufa		REEL		8 STAGE		127 1 9.12 118 70 9.49	Density Funnel V													E 21 S	LINDS & UPPER F AFETY MEETING	PIPE RAMS WITH DIRE	OUT OF	HOLE =	6 SECON	DS TO CLO	
	Type S	E2289	1GZ 1	GAP SUB	3 GS509	128 1 1.64	Fluid Los									_		23:15 23:30	0.25	25 P	AY DOWN/ RACK	ING					
se	-	9.5 9.5	1	SLIDE RE	EAMER	118 70 18.9 121 58 1.43	Depth	Of Sample				Equipment	Hours	Inta		Over Flow	Under Flow	23:30 24:00	0.50	12A C	LEAN OFF FLOOI	K/ KIG UP T	URUN	LASING			
		9.5 9.5 4253.0		crossov		130 60 0.94 135 80 48.6						Name	Run	Der		Density	Density		F	\ddagger							
Depth C	- · · -	4253.0 2083.0	0 1	CROSSOV	ER SUB	130 60 0.7			ner Size SPN	1 Pressur	e Hrs Run								F								
Total Drill	- i - i -	2170.0	1	5" JAI	ER SUB	130 58 5.20 130 60 0.70	4					MUD MAT	ERIALS AD	DDED													
Hrs Run Cumulative H	- H	0.00	57	4.5" D	P	135 80 554.9				T			Produc			Amount	Туре		E	$+ \top$							
Entr		17-Dec-2		Drill Pipe		ingles 0.00	Remarks				└─╏																
ті то	1 1	Gage	0 NO	Kelly Down		-7.41 4253.00					ļ							Remarks FUNCTIC			SAVER UPPER	/LOWER	TRAV	EL STO	DPS & LI	MITS, MC	WS, DRILL
	NO A	Rasson Pulled	TD 7.81	Weight of DC		70.00	-				ļ							LINE AN) DRI	LL LIN	E ANCHOR, IN	ISPECT T	ONGS	& LINE	ES, IROM	ROUGH	NECK, SLIP
METRES DR		-R-C RPM	н	DLE COND	ITION	10.00	REDUC	# Pres		trokes/mi	n Dorth							VALVES									
				Hole Drag Torque At	Up Bottom	Down	Pump :	# Prés	œ	@		BOILER BoilerN	Ιο Ηοι		pH			SAFETY									
++		1			a			1	œ	@	- 15	-		4.00	10.5		340			Cal	fety Topic		-	MEHL			MACP

	_											four Sheet Seria	Number		Vender S	Software Versi	on		Year	Month	Day	DAILY OU	50%0			00.01		Page 2	of 3
	License No		Well Name					Y			5	PREC4	465_2016	1220_1A	Pr	RMS	2016.6.14.	Unique W	ell Id		2 20	(1.) Daily Walk / (2.) Detailed Ins	Around Inspector	kly (Using Che	ck List)			CAD	
	32574 Operator			Z Septim	ius H11-3	4-81-18W	V6		Contractor				8 W6		Ri	g No				-18W5		(4.) Well Licence (5.) Flare Lines	e & Stick Diag Staked	uired gram Posted		AL RT AL RT		Å	
	Operator's AF	FE	Lta.						Contractor 35	ion Drilling rs Job No	g, aiv or i	PDC			146	Spud	Date Time 09-Dec		<u> </u>	18:00		(7.) Visually Insp (1.) Rig Site Hea	pected BOPs- aith & Safety #	Meeting (one/cr	rew/month)				
	Signature Of	Operator's Re	presentative						Signature ROD T	Of Contractor's R	ig Manager					Rig R	elease Date Tim	6	1			(3.) Mast Inspec(4.) Crown Save	tion before Ra	aising or Lower	ing	RT			
	Code			3 Reaming																								FUEL @	
	Tour 1	Up				& Circ			Rìg	Drilg Line		Logs	& Cement	Cement	BÖP	BOP	Test	Back	Cément		Work		Down	On T	Watch			9751 Time	Boller 9530 Temp
			1.50			4.00	-				1.00											++						Current Conditio	ns
	0		7.00			4.00	-				3.00						+										<u> </u>	Wind Direction E Road Condition	Wind Strength UP TO 19 KM/H
	то	ur 1	-	SNATURE OF	FDRILLER						0.00		0.00								1100	0.10			START			17411	8:00
	BITS			DF	RILLING A	SSEMBL	LY	MUD R	ECORD				DEVIATIO	N SURVEY	S				TIME L	OG									
	Bit	-		No		onent M BIT		th	Mud T		זיים	-						Type	From	To Elaps	ed Code			Details	Of Operation	ons In Seq	uance & Rei	narks	
	IAI		159		NEAR BIT	INC SUB	135 1 1.0	4 Time				_								_									
	Manu	ufacturer		<u> </u>	NON MAG FI	LEX MONEL	118 70 9.4	9 Funnel V			_		05:15	5 4040.0	07 90).40	87.8												
	s	F			.			4 pH			-		07:45	5 4127.4						_	++								
		-						<u> </u>					Equipment	Hours															
	Depth			0	5 4.5" D	P	135 80 48.6	7 Circula	ition				Centrifuge /	1 8	.00	1170													
		· · /-		1				в		ner Size SPN	Pressure	Hrs Run	Centringer	12 0							+								
				<u>1</u>	4.5" D			<u>1</u>	SINGLE 1	127 10	4 31900	6.50	MUD MAT				Amount	Type											
		- H) 25	Drill Pipe	SI	itands 726.46							Fibuut			Amount	Type											
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License No	v	/ell Name	FR	ONT P	AGE S	SUMMAR	Y					465_2016 ⁻	1220_1A	Pa		016.6.14.	37064 Unique W	20	16 1	2 20	(1.) Daily Walk A (2.) Detailed Insp	round Inspector	ekly (Using Ch	neck List)	AL RT	1	Cad			
32574 Operator		RCRES H	Z Septim	us H11-34	4-81-18W	V6		Contractor			1-34-81-1	8 W6			g No	DLS Well Type		-35-081	-18W5	Re-Entry	(3.) H2S Signs P (4.) Well Licence (5.) Flare Lines S (6.) BOP Drills P	a Stick Diag Staked	uired gram Posted		AL RI AL RT	`				
ARC Res Operator's AFE	E	Ltd.						Contractor	ion Drillin 's Job No	g, div of	PDC			46	Spud D	late Time	HO	RIZ			(7.) Visually Insp (1.) Rig Site Hea	ected BOPs-	-Flare Lines & Meeting (one/s	crew/month)	AL RT					
16DRL00 Signature Of O ALLEN L	Operator's Rep	resentative						35 Signature	Of Contractor's F	ig Manager					Rig Ri	09-Dec	-2016	1	18:00		(2.) CAODC Rig Safety Inspection Checklist (one/rig/month) (3.) Mast Inspection before Raising or Lowering (4.) Crown Saver Checked (5.) Motor Kills Checked									
Code	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	-	Kelly Bushing	5319		
	Rig Up	Drill Actual	Reaming	Coring	Cond Mud & Circ	d Trips	Rig Service	Repair Rig	Cut Off Drilg Line	Dev Survey	Wireline Logs	Run Csg & Cement	Wait On Cement	Nipple BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fishing	Dir Work	Safety Meeting	Tear Down	Waiting On	Rig Watch	Other	TOTAL	Rig 0751	@ 08:00 HR		
Tour 1		5.50			4.00	0 5.00	0.25			2.00											0.25					8.00	Time 06:00	-4		
San Tour 3		1.50			4.00	1.75	0.25			1.00		0.50								1.00	+ +				0.25	12.00 5 4.00	OVERC	on Wind Strength		
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тои	ir 1	SIG	NATURE OF	DRILLER	ERIC	OBRIE	N																	START		:00	END TIM	8:00		
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	-	.5 9.5		NON MAG FL	EAMER	118 70 18.9 121 58 1.4	Depth	Of Sample				SOLIDS C	ONTROL	Inta	ake (Over Flow	Under Flow													
		5 9.5		CROSSOV 4.5" D		130 60 0.9 135 80 48.6	4 PVT					Name Centrifuge /	Run	.00	1170	Density 1120	Density 1700		_											
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	STRUCTU	Gage		Kelly Down		0.00												Remar	ks -											
MDC LOC	_	Reason Pulled		Weight of DC		3022.11												LINE	AND DR	ILL LIN	E ANCHO	DR, INS	SPECT	TONGS	& LINE	ES, IROI	N ROUGH	WS, DRILL NECK, SLIF		
BRG METRES DR	RILLED	6		Weight of String	2	70.00		ED PUMP	SPEED									VALV	ES AND	LINES								R, MANIFO		
From	To D-F	R-C RPM	WOB	Hole Drag		0 Down 30	Pump :	# Pres 7460		trokes/mi 52 @		BOILER						BETW									ESSURE I D TOLD H	INES		
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тои	R 2	SIG	NATURE OF			EN PREVO	<u> </u>	7640	æ	52 @	3995.00							LOCKO	015					91 Strart	TTIME 8	:00	528 END TIM	20:00		
BITS				ILLING A				ECORD				DEVIATIO	N SURVEY	s				TIME L	og											
Bit M	Number	4	No	Comp		OD ID Leng	ħ		ype Water	_ oi 🗹		Time	Depth	Deviati	ion (Direction	Type		To Elaps	ed Code			Details	of Operati	ions In Se	quance & F	emarks			
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		K413M-A		NON MAG FL		118 70 9.4 128 1 1.6	Fluid Los												_	++										
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Depth		4253.0		4.5" D		135 80 48.6 130 60 0.7	7 Circula	tion		,		Centrifuge I	1 8	.00	1170	1120	1700													
Depti Total Dril		2003.0	0 1	5" JAI	RS	130 58 5.2	Pump#		ner Size SPI		Hrs Run								_											
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Cumulative H		32.00 7-Dec-2		Drill Pipe Drill Pipe	SI	itands 1164.10													_											
				Kelly Down		-7.41	Kemarks				-							Demor												
TO MDC		ODC Reason Pulled		Total Weight of DC		4253.00	4																					WS, DRILL NECK, SLIF		
LOC BRG		Total Ran (mhr)	7.81	Weight of String		70.00	REDUC	ED PUMP	SPEED									ELEV	ATORS	DOG C	OLLARS	, FUNC	CTION	CHOKE,	, FLAR	E STAC	K IGNITO	R, MANIFO		
From	To D-F	R-C RPM	WUB	Hole Drag		0 Down 33	Pump	# Pres	sure S	trokes/mi		BOILER																		
\models	\mp	\mp		Torque At	Bottom	12500	- 1	7700	@	52 @	4250.00		ίο Ηοι	ursRun	рН	St	ackTemp			Saf	ety Topic				MEHL			MACP		
тоц	л 3	- 9/	NATURA	Fill On		OBRIE	II N		œ	@								TRIPPIN	IG					95 STAB	т тіме 2		528	24:00		
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BITS Bit M	Number	4	No	Comp	onent	OD ID Leng	ħ	ECORD Mud T	ype Water	_ °" 🗹		DEVIATIO Time	Depth	Deviati	ion D	Direction	Type	TIME L	OG To Elaps	ed Code			Details	Of Operati	ions In Se	quance & F	emarks			
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.manut	-	KEEL K413M-A	1	NON MAG FL		118 70 9.4 128 1 1.6	Funnel V Fluid Los						1					⊨†	_	++										
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		.5 9.5 .5 9.5		SLIDE RE		130 60 0.9						Equipment Name	Hours Run	Int Der		Over Flow Density	Under Flow Density	F	+	++										
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Ent CUTTING S	ny Date 1			Drill Pipe Kelly Down	Si	ngles 0.00 -7.41	Remarks				-				\pm															
TI TO MDC	1 1 NO	ODC	0 NO TD	Total		4253.00					ŀ				\pm			Remark FUNC	TION C	ROWN	SAVER U	PPER/	LOWE	R TRAV	EL STO	PS & L	MITS, MO	WS, DRILL		
LOC BRG	A		7.81	Weight of DC		70.00									\pm			ELEV	ATORS	DOG C	OLLARS							NECK, SLIF R, MANIFO		
METRES DR		R-C RPM	WOB HC	LE COND	ITION			# Pres		trokes/mi	n Depth	0.01						VALV	'ES AND	LINES										
				Hole Drag Torque At	Up Bottom	Down			@	@		BOILER	lo Hou	ursRun	pН	St	ackTemp	SAFETY												
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			F	RONT P		IMMA	~~				r Sheet Serial			Vender S	loftware Versic			Yea	r	Month	Day	DAILY C	HECKS			OP RM			
License No 32574		Well Name		nus H11-3			X I			Surfa	PREC4 ace Location 34-81-1	165_20161 8 W6	221_1A	B	DV	DLS	Unique \	2 Well Id 9-35-08	2016 1-18W5	12 5	21	(2.) Detailed (3.) H2S Sign	lk Around Inspe Inspection - We ns Posted if Req ince & Stick Dia	ekly (Using Che uired	ck List)	AL RT AL RT AL RT	. ((oc)
Operator ARC Res						-			ion Drilling, c						^{3 No}	Well Type		RIZ			Re-Entry	(5.) Flare Line (6.) BOP Drill	es Staked		Degasser Lines	AL RT	1		
Operator's AF 16DRL00 Signature Of		Representative						Contractor 35 Signature	's Job No Of Contractor's Rig Ma	anager					Spud E	09-Dec- Rease Date Time	2016	1	18	8:00		(2.) CAODC ((3.) Mast Inst	Health & Safety Rig Safety Inspe pection before R	action Checklist	(one/rig/month) RT	-	\mathbb{N}	
ALLEN L Code	UNG/	AL 2	3	4	5	6	7	ROD T	OMPKINS	10	11	12	13	14	15	16	17	18	1	9	20	(4.) Crown Sa (5.) Motor Kill 21	aver Checked Is Checked	23	24	<u>RT</u> 25		Kelly Bushing	Op Fuel 4159
	Rig Up	Drill Actual	Reaming	Coring	Cond Mud & Circ	Trips	Rig Service	Repair Rig			Wireline Logs	Run Csg & Cement	Wait On Cement	Nipple BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement			Dir Work	Safety Meeting	Tear Down	Waiting On	Rig Watch	Other	TOTAL	Rig	08:00 HRS
Tour 1					4 75		0.25					7.25		4 75								0.50	-				8.00	37233 Time 06:00	8711 ^{Temp} -1
	2.0	0			1.75							8.00		1.75					+			0.50					12.00 2.00	OVERCAST Wind Direction	Wind Strength
우 TOTAL	2.0	0			1.75		0.25					15.25		1.75								1.00					22.00	Road Condition FAIR	UP TO 19 KM/H
то	JR	1 8	IGNATURE C	OF DRILLER	ERIC	OBRI	EN																		STAR	TIME 0	:00	END TIME	8:00
BITS	Number		D	RILLING A		OD ID Ler	MUD R	ECORD Mud T	ype Water	ा 🗖		DEVIATION	SURVEYS Depth	Deviat	ion I	Direction	Type	TIME	To	Elapse	dCode			Details	Of Operat	ons In Sec	quance & Re	narks	
Dit	Size		F						Other									0:00	0:15	0.25	21 12B	RUN CASI	NG, 170 J	PRIOR TO OINTS 4	RUNNIN 1/2" P110	G CASIN LT&C, F	G CTA 3-1 OLLOWED	BY 23 JOINT	S 5 1/2" P110
IAI Manu	OC Code						Time Density Funnel V	issasiltu													7	RIG SERV	ICE, FUNC	CTION AN	NULAR,	22 SECO	5 1/2" P110 NDS TO CL		ARC
	Туре						Fluid Lo				_							/••	0.00	0.23	-	REPRESE						MANAGEN,	
s	erial No Jets		╶┼┠				Depth	Of Sample				COLIDS CO	NTROL	Int	aka 🔤	Over Flow	Under Flow												
Death	0					++	PVT					Name	Run	Der		Density	Density												
Depth Dep	ih In (m)						Circula Pump #		ner Size SPM	Pressure H	Hrs Run																		
Total Dr Hrs Ru			<u> </u>									MUD MATE	RIALS AD	DED															
Cumulative	Hrs Run			Drill Pipe	Sta	_	1-	\vdash			<u> </u>		Product			Amount	Туре												
Er	try Date	TURE		Drill Pipe Kelly Dow	Sin	gles	Remarks																						
TO MDC		ODC Resson Pulled		Tota Weight of DO	u D																							ITS, MCW	S, DRILL ECK, SLIPS
LOC BRG METRES D	DILLEG	Total Run (m/m)		Weight of String	9		REDUC	ED PUMP	SPEED									ELE	νατο	RS,		COLLAR							MANIFOLD
From	То	D-R-C RPM	WOB H	OLE COND Hole Drag		Down	Pump			kes/min @		BOILER						150	TON E			4 1/2 15 RS S/N D					409 RFI S	HP 10843-	02, 5 1/2
			Ħ	Torque At Fill On	_		_		@ @	@ @		BoilerN 1	8	rsRun .00 .00	pH 10. 10.	5	ackTemp 340 340		Y ING CAS	SING	S	afety Topic			60	MEHL	353	MA/	CP
то	JR	2 8	IGNATURE C	F DRILLER	BRENDE	N PREV	OST					-			104		0.10								STAR	11ME 8			20:00
BITS			D			OD ID Ler	MUD R	ECORD				DEVIATION	SURVEYS			Direction		TIME	_	F1				D-1-11-	0.0	l= 0			
Bit	Number Size			o com	JORNITE	00 10 14	Gui	Mud I	ype Water			Time	Depin	Deviat	ion i	birection	Туре		To 12:30		12B			OINTS 4	1/2" P110	LT&C, F	quance & Rei OLLOWED 5 1/2" P110	BY 23 JOINT	S 5 1/2" P110
IAI	C Code		┸				Time Density											12:45	14:15	1.50	5 5	WASH TO CIRCULAT	BOTTOM TE BOTTO	MS UP 23	ĸ				
mane	Туре						Funnel V Fluid Lo	iscosity Is										14:30	14:45	0.25	12C	RIG IN CE	MENTERS	6, PRESSI	JRE TES	T LINES.	VIEW CTA	I-1. •S7 @ 1400kg	a/m´t. Pump
s	erial No Jets		┯┣				Location	Of Sample		-		SOLIDS CO										1.65 Tonne	e 2.50m'‡	Scavenge	er TAC 10	600 @ 14	00kg/m´‡, F	ump 32.0m3	Tonne, 32.0m y 45.0m3 Toni
							PVT					Equipment Name	Hours Run	Int Der		Dver Flow Density	Under Flow Density					1600kg/m*	‡ Tail Cer	ment. Clea	an out lin	es. Launo	ch wiper pl		ce with 5m´‡ o
Depth Dep	Out (m) h In (m)						Circula Pump #		ner Size SPM	Pressure	Hrs Run							1				of inhibite	d water, 5	L/m´‡ Trie	corr 134,	2L/m´‡ D	F-2W, 40%	excess used	R-100 & 34.49 for cementing Kpa over FC
Total Dr Hrs Ru							2	71.5				MUD MATE	RIALS AD	DED							12C	Floats held FLUSH ST	d. Monito ACK. RIG	OUT CE	mins no MENTERS	fall-back S.	in annulus	Plug down a	
Cumulative				Drill Pipe	Sta	ands	_						Product			Amount	Туре				21		R SAFET				EWS. (RIG	0 DAN RELEASED	DEC21
Er	try Date	TURE		Drill Pipe Kelly Dow	Sin	gles	Remarks															2010@20.							
TI TO MDC		Gage ODC Reason Pulled		Tota Weight of D0	a D										_													ITS, MCW	S, DRILL
LOC BRG		Total Run (m/m)		Weight of String	9		PEDIK	ED PUMP	SPEED						+			ELE	νατο	RS,		COLLAR							MANIFOLD
From	То	D-R-C RPM	WOB	Hole Drag		Down	Pump		sure Strol	kes/min @		BOILER																	
				Torque At Fill On					@ @	@		BoilerN 1 2	13	rsRun 2.00 2.00	pH 10 10		ackTemp 340 340	CEME			S	afety Topic			75	MEHL	352	MA) 8	CP
то	JR	3	IGNATURE C	OF DRILLER	ERIC	OBRI	EN								.0											11ME 20		ENDTIME	24:00
BITS			D	RILLING A		OD ID Ler	MUD R	ECORD		or – 1		DEVIATION	SURVEYS Depth	Deviat		Direction	Terr	TIME	LOG To	Flanco	d Cordo			Deteile	Of Oneret	ene in Cer	manag & Da	nesko	
Bit	Number Size			- Comp	ponent			Mud T	ype Water	∽" ™		rand	oupth	Jevial			Туре					RIG OUT F	RIG AND F				quance & Re -34-81-18W		
	C Code						Time Density																						
Manu	facturer Type						Funnel V Fluid Lo	iscosity ss																					
s	erial No Jets			1		++	pH Location Depth	Of Sample		-		SOLIDS CO	NTROL																
	Jets						PVT				∃	Equipment Name	Hours Run	Int Der	ake nsity	Over Flow Density	Under Flow Density												
	Out (m) th In (m)		-				Circula																						
Total Dr	illed (m)						Pump #	Type Li	ner Size SPM	Pressure H	Hrs Run	MUD MATE	RIALS AD	DED															
Hrs Ru Cumulative		<u> </u>	-	Drill Pipe	Sta	ands							Product			Amount	Туре												
Er	try Date	TURE		Drill Pipe	Sin		Remarks				-						<u> </u>				\square								
ті то		Gage ODC Research Falled		Kelly Dow	-						E							Rema	irks										
MDC LOC BRG		Total Run (m/hr)		Weight of DO	9		-											1											
METRES D From	То	D-R-C RPM	WOB	OLE COND		Down	REDUC Pump	# Pres	sure Strol	kes/min	Depth	BOILER																	
Ħ	#		Ħ	Torque At		Jown			0	@		BoilerN 1		rsRun 00	рН 11		ackTemp 340	SAFET	Y		S	afety Topic				MEHL		MA	CP
				Fill On	Bottom				@	@		2		.00	11		340												