B Sundry	UNITED STATES EPARTMENT OF THE IN UREAU OF LAND MANAG NOTICES AND REPOF is form for proposals to o II. Use form 3160-3 (APD	EMENT HO	BBS (OMB N	APPROVED 0. 1004-0137 muary 31, 2018 r Tribe Name
	TRIPLICATE - Other instr				7. If Unit or CA/Agree	ement, Name and/or No.
1. Type of Well Solution Other Content of Well Other Content of	······				8. Well Name and No. IGLOO 19-24 STA	TE FED COM 14H
2. Name of Operator CAZA OPERATING LLC	Contact:	STEVE MORRIS @morcorengineerin	g.com		9. API Well No. 30-025-46412	
3a. Address 200 N LORRAINE ST 1550 MIDLAND, TX 79701		3b. Phone No. (inclu Ph: 985-415-972)	10. Field and Pool or I LEA / BONE SP	Exploratory Area RING SOUTH
4. Location of Well <i>(Footage, Sec., 7</i> Sec 19 T20S R35E Mer NMP 32.552615 N Lat, 103.496198	SWSE 450FSL 2514FEL				11. County or Parish, LEA COUNTY,	
12. CHECK THE AI	PPROPRIATE BOX(ES)	TO INDICATE N	ATURE O	F NOTICE,	REPORT, OR OTH	IER DATA
TYPE OF SUBMISSION			TYPE O	FACTION		
Notice of Intent	Acidize	Deepen	r	—	ion (Start/Resume)	Water Shut-Off
Subsequent Report	Alter Casing	Hydraulic	•	Reclam		Well Integrity
• -	Casing Repair	New Cons				Other
Final Abandonment Notice	 Change Plans Convert to Injection 	Plug and A Plug Back		U Tempor	arily Abandon	·
determined that the site is ready for f Drilled intermediate hole. Ran well. Set whipstock and side t Attached are detailed operatio	9.625" casing and casing racked well. Drill pipe becc	became stuck and ome stuck. P&A we	l then part ell.	ed. Plugged	back	
14. I hereby certify that the foregoing is	s true and correct. Electronic Submission #4	95401 verifieri hv ti	ne BLM We	II Informatio	1 System	
	For CAZA	OPERATING LLC,	sent to the	Hobbs	, cystom	
Name (Printed/Typed) STEVE I	MORRIS	Title	ENGIN	EER		
Signature (Electronic S	Submission)	Date	12/11/2	019		
	THIS SPACE FO	R FEDERAL OF	R STATE	OFFICE U	SE	
Approved By		Title				Date
Approved By Conditions of approval, if any, are attache certify that the applicant holds legal or eq which would entitle the applicant to condu	uitable title to those rights in the	not warrant or				
Title 18 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent					ake to any department or	agency of the United
(Instructions on page 2) ** OPERA	TOR-SUBMITTED ** OF	PERATOR-SUB	MITTED *	* OPERA1	OR-SUBMITTED	** K 75



CASING & CEMENT REPORT

															ŀ	10 ₈	BS	00.
Ð	Caza Petroleu	m				CA	SING	& (CEME	ENT	REPO	RT			RE	DEC I	³ 20	ОС <u>Г</u> //9 0
WELL/JO	B INFORMATI																	
	Well Name:					m 14	4H					_	-025-46412	2				<u> </u>
Su	Field Name: Irface Location:			-	-	450	ESI 8. 25	14 5	<u></u>		ing AFE #		t Bone Sprii	ng				
	County / State:					-50	7 JE & 2.5	141	<u></u>		ing AFE \$		286.752					
	SUMMARY	,										100	,200,102					
	item				No. Jn1		OD		Wt.		Grade		Cor			ngth		Pipe MD
Conductor Surface				-	25247		20		94 54.5		J55 J-55		We ST			05 923		05.00 923.00
	•			-														
				\vdash														
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											-							
						_		\rightarrow							·			
_																	1	
CEMENT	ING INFORMA		N						Sur	face			▼					
			g Company:		r Five								 	District:	Artesia			
MUD PR	OPERTIES WH	ile c	EMENTING	2			Wt		0.6	PV	1		YP	4			144	
Mud T	vne:		· · · · · · · · · · · · · · · · · · ·						9.6	PV	1			1	рН	7	WL	80
	re-flush Volume,	Type	e & Weight	1		20	l		wate	-r	1		8					
			Cement Sa				Ту	be	Watt	-	Wt. (PPG)	Wtr (G	al/sk)	Yield (CF/Sk)	Volu	me (CF)
			1080								12.90	<u> </u>	10.		<u>+</u>	97		16.00
Additives										1			1		1		1	
			320				F	1			14.80		6.3	0	1.	32	32	20.00
Additives													•				1	
· ·																		
Additives																	,	
Additives	Stage #		1	1	Lead		Mixi	ng.	7	.5	bbl/n	ain			placing:	7	.5	bbl/m
Displ	lacement Fluid:		Water	\vdash			placeme			90	bbls.		Actu	al Displa			90	bbls.
0.00	Mud Returns:		100%	%		. 013	placeme		-		0013.				cement.			0013.
	Cmt Returns:		300		'bbls											•		
Estin	nated Cement T	op:			urfac	e		1	ft.w/			50·		excess				
	Final Circ Pressu	ıre:	550		psi	Bu	mp Plug	w/	10	40	psi		Time:			Date:	11/27	/2019
	Stage #		1		Tail		Mixi			'.5	bbl/n	nin			placing:		.5	bbl/mi
Displ	acement Fluid:			·	Calc	. Dis	placeme	nt:	2	90	bbls.		Actua	al Displa	cement:	2	90	bbls.
	Mud Returns:		100%	%														
Ectin	Cmt Returns: nated Cement T	onil	YES	SX/	bbls				ft.w/			50		excess				
	Final Circ Pressu		550		psi	Bu	mp Plug)40	psi	50	Time:			Date:	11/27	/2019
	Stage #			Τ			Mixi				bbl/n	nin			placing:	, Dute.		bbl/mi
Displ	acement Fluid:				Calc	. Dis	placeme				bbls.		Actu	al Displa				bbls.
	Mud Returns:		· · · ·	%	T													
	Cmt Returns:			SX/	'bbls													
	nated Cement T	· ·							ft.w/					excess				
	Final Circ Pressu	ire:			psi	Bu	mp Plug				psi		Time:			Date:		
	Stage #						· Mixi	-			bbl/n	nin			placing:			bbl/mi
Displ	acement Fluid:				Calc	. Dis	placeme	nt:			bbls.		Actua	al Displa	cement:			bbls.
	Mud Returns:			%	1													
	Cmt Returns:			SX/	bbls				<u></u>	1								•
	nated Cement T					n			ft.w/					excess		0 -+-		
	Final Circ Pressu		3	2	psi		mp Plug Hours	w/	C+	rt Tin	psi	~	Time: 9:00	End Ti		Date:	 17:00	
V	Vaiting on Ceme	anti j		,				lizer			ne: Remarks		5.00			•	17.00	;
							Condic		space									
Nu	umber Centralize	ers:									Pr	ера	red By:					
Cas	ing head tested	to:			psi													

FAR PINE

ENERGY SERVICES LLC

DESIGN - EXECUTE - EVALUATE - REPORT

PLUG TO ABANDON

HOBBS OCD

DEC 1 3 2019

CAZA

RECEIVED

IGLOO 19 24 STATE FEDERAL COM #14H

LEA, NEW MEXICO

PRIMARY PUMP: SECONDARY PUMP: 2019

PREPARED BY:DANIEL MORENO

SERVICE SUPERVISOR

ARTESIA DISTRICT

1-575-748-8610

12/10/2019







	R P FIV Y SERVICES LL		Par F		vington sia , NM	Hwy			ART19)•11249-03F
Customer	: Caza Operating			MD	: 3900				Report Date:	November 26 2019
Well Name	: Igloo 19 24 State	Fed Con	n 14H	TVD	: 3900				Stage:	2nd Stage Lead
County		S	itate: NM	BHST	: 111				String:	Intermediate
-	Nabors M51 Kurt Crowe			внст	: 92			i	Blend Type: Reported By:	Pilot Blend Rodriguez, Sonny
				1	: .	۱ 				
Density: 1	1.90 ppg			Yield: 2	.36 cuft/	'sk			Mix Fl	uid: 12.833 gal/sk
	·			1111 	199 <u>-</u> 1-1	••				
Cement Bl Additive PF-044		liteC Design BWOW	Description Salt			Lot Numl G3CB09	ber			
PF-020	10.00% %	BWOB	Bentonite Gel			Bulk				
PF-013	0.20% %	BWOB	Retarder		I	MM02C-27	52BK			
PF-153	0.10%	BWOB	Anti Settling Agent							
PF-062	3.000 lb/sk	BWOB	Extender							
PF-042	3.000 lb/sk	BWOB	KOLSEAL		. (BulK				
PF-045	0.400 lb/sk	BWOB	Defoamer		:	201304AC				
		* *						1 · · · :	1 E	
Temp	3 6 100	200	300 PV	YP	Temp	POD	30 Bc	50 Bc	70 Bc 10	0 Bc Batch Time
80 °F	7.5 8.5 13.5	19.5	24 15.75	8.25	92 °F	4:40	5:23	5:45	6:20	0
92 °F	19.5 23.5 59.5	67.5	74 21.75	52.25			Inickening	; lime doe	s not include l	batch time.
		÷ 1.								
Temp		l Collecte	d Start Time S	ton Time						
92 °F	0	2 ml/25		10:03						
	-		-							
	1 · · ·	112 · 1								
	50 psi 500 psi	12 hr	24 hr 48 hr	72 hr						
Temp										

The above data is for informational purposes, and Par Five Energy Services LLC, makes no guarantees or warranties, either expressed or implied, with respect to the accuracy or use of these data and interpretations.

JOB LOG

PAR PINE

OMPANY N	AME:	CAZA		<u> </u>	DATE: 12/10/2019	
LEASE NAME	:	IGLOO 1	9 24 STATE	FED COM	TICKET NUMBER: 9994	
WELL NUMB	ER:	14H			JOB TYPE: PLUG TO ABANDO	DN
SCHEDULED	LOCATIC	ON TIME	L	OAD AND GO		······································
TIME ARRIVE	D ON LC	DCATION		1:00	TIME LEFT LOCATION	22:30
	: %:``T					
22:45					PRE-CONVOY MEE	TING
23:00				<u> </u>	DEPARTURE FROM	· · · · · · · · · · · · · · · · · · ·
1:00			····-	<u> </u>	ARRIVE LOCATIO	
1:05				†	HAZZARD ASSESM	1ENT
1:10					PRE-RIG UP MEET	FING
1:15					RIG UP EQUIPME	ENT
3:40					PRE JOB SAFETY ME	ETING
3:57	370		2	7	PRIME LINES	
3:58	3400				TEST LINES	
4:00	400		70	8	FRESH WATER	{
4:18	551		316	8	LEAD	
5:04	568		190	8	TAIL	
5:33	241		44	6.5	DISPLACEMEN	Τ
5:42					SHUTDOWN	
					TAGGED CEMENT AT	2905 FT
					PLUG 2 SET AT 210	00 FT
17:34	120		2	8	PRIME LINES	
17:35	3400				TEST LINES	
17:37	240		10	6	FRESH WATER	<u>}</u>
17:39	256		91	6	CEMENT	
17:56	393		31.5	8	DISPLACEMEN	Τ
18:02					SHUTDOWN	
				├ ─── <u></u> <u></u> <u></u>	SET 3RD PLUG AT 1	
20:03	230		20	5	FRESH WATER	
20:08	300		15	5	CEMENT	
20:12				┝━───-┣───	SHUTDOWN	
					CIRCULATED 2 BBLS/8 SKS OF CE	
20:25				┝	RIG DOWN SAFETY M	
20:30				├ ───	RIG DOWN EQUIPM	
					·····	
				┠		
					· · · · · · · · · · · · · · · · · · ·	
			·			

PAR P FIVE

ENERGY SERVICES LLC

COMPANY NAME:	CAZA		DATE:	12/10/20	19		
LEASE NAME:	IGLOO 19 24 STATE FI	ED COM	OPERATO		CAZA		
WELL NUMBER:	14H		TICKET NU		9994		
API NUMBER:	42-227-39632	·	AFE NUM				
SECTION:	· · · · · · · · · · · · · · · · · · ·	TOWNSHIP				RANGE:	
COUNTY: LEA		•	STATE:	NEW MEX	lico		· · · · · · · · ·
RIG NAME: NABORS N	A51	COMPANY				PHONE#:	
				а -			
							i
	•						
							· · · · · · · · · · · · · · · · · · ·
							•
PROPER PPE						". <u>.</u>	
		· · · · · ·					
PUMP 752 SKS LEAD							
PUMP 800 SKS TAIL							
DISPLACE							
SHUTDOWN							

PAR P FIVE

ENERGY SERVICES LLC

JOB TYPE: PLUG TO ABANDON	HOLE SIZE: 20
TOTAL DEPTH: 3808	PREVIOUS CASING SIZE: 13 3/8
PREVIOUS CASING LB/FT: 54.5	PREVIOUS CASING DEPTH: 1923
CASING SIZE:	
CASING LB/FT:	CASING GRADE:
FLOAT COLLAR DEPTH	SHOE JOINT LENGTH:
DV TOOL DEPTH:	SECOND DV TOOL DEPTH:
TOTAL DEPTH: 3808	TOTAL CASING :
TBG/D.P. SIZE: 5	TBG/D.P. DEPTH: 3764
TBG/D.P. LB/FT: 19.5	TOOL DEPTH:
PACKER OR RETAINER	PERF/HOLE DEPTH:
CEMENT HEAD SIZE:	QUICK CONNECT SIZE:
DRILL PIN SIZE/TYPE:	THREAD:
TUBING SWEDGE SIZE	TAKE 2 -2 INCH REGULAR TUBING SWEDGES

600# SUGAR

SUPERVISOR:			- <u></u>	FIELD RE	PRESENTAT	IVE:		
PUMP OPERATOR:	Josh Cast	illas			MBER:	1047-2019		
E/O:			UNIT NUMBER:		MBER:	1030-2046/RONNIE SPANGLER		
E/O:					MBER:	1046-2062	RUBEN SANCHEZ	
E/O:	Jose Vela	squez		UNIT NU	MBER:	1015-2037	· · · · · · · · · · · · · · · · · · ·	
E/O:					MBER:	DANIEL MO	DRENO	
		-		5.8				
1ST SLURRY:			(BWOW)(SALT)- TENDER)+3#/SK				ER}+.1% PF153(ANTI SETTLING	
DENSITY: 11.9	YIELD:	2.36	MIX H2O:	12.833	SACKS:		752	
2ND SLURRY:	C+2% PF1 C	ALCIUM CHL	ORIDE					
DENSITY: 14.8	YIELD:	1.34	MIX H2O:	6.3	SACKS:		800	
3RD SLURRY:	C+2% PF1 C	ALCIUM CHL	ORIDE					
DENSITY: 14.8	YIELD:	1.34	MIX H2O:	6.3	SACKS:		385	
4TH SLURRY:	C+2% PF1 C	ALCIUM CHL	ORIDE					
DENSITY: 14.8	YIELD:	1.34	MIX H2O:	6.3	SACKS:		65	
		-						
5TH SLURRY								

DISPLACEMENT TYPE	FRESH WATER	DISPLACEMENT VOLUME:	44	MUD WEIGHT:	8.33



ENERGY SERVICES LLC

DESIGN - EXECUTE - EVALUATE - REPORT

0

CAZA OPERATING

IGLOO 19 24 STATE FED COM 14H

LEA County, NEW MEXICO

PRIMARY PUMP: SECONDARY PUMP: 2052 2051

Prepared By: Keith Jackson

SERVICE SUPERVISOR

ARTESIA DISTRICT

1-575-748-8610

12/4/2019

				/ */a		-	
COMPANY NAME:	CAZA OPERATING		DATE:	12/4/201		<u>.</u>	
LEASE NAME:	IGLOO 19 24 STATE F	ED COM		R NAME:			
WELL NUMBER:	14H		TICKET N		9907		
API NUMBER:			AFE NUM				
SECTION: 19		TOWNSH	IP:	205		RANGE:	35E
COUNTY: LEA			STATE:	NEW MEX	lico	ł	u
RIG NAME: NABORS	M51	COMPAN	Y REP:		· · · · · · ·	PHONE#:	
			DIRECTION	VS			
•							
Take 82 east to 360	, turn right on 360 and g	o to 62-180), turn left (on 62-180 a	nd go to Mi	arathon roa	id, turn right on
	5 miles, turn left go 1.5		ation. Nab				
			NOTES			···· , =	
UPDATED BY DAMA	SIO 12-3-19						
		:					
	ſ						
			HSE				
* ************************************							
WEAR PROPER PPE							
)(OB PROCED	URE			
TEST LINES							
PUMP 20 BBLS FRE	SH WATER						
PUMP 2400 SKS SLU	1770 M 120						
SHUT DOWN							
DISPLACE WELL							
·							
			· .				

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		- 2	17			E	
			iev s	IERVICE	5 .LLC	5	
	t et et.	• • • •		LL /CASING DATA			
JOB TYPE:	v	VHIPSTOCK	PLUG	HOLE SIZE:	·····	20	
TVD:	3400			PREVIOUS CASING	SIZE:		
PREVIOUS CASIN	G LB/FT:			PREVIOUS CASING		· · · · · · · · · · · · · · · · · · ·	
CASING SIZE:		DRILL PIN	·····				
CASING LB/FT:	16.6			CASING GRADE:		L80	
FLOAT COLLAR DE	EPTH:			SHOE JOINT LENG	TH:		
DV TOOL DEPTH				SECOND DV TOOL			
TOTAL DEPTH:	3400			TOTAL CASING :		3400	
			Τ	UBULAR DATA			
TBG/D.P. SIZE:	·			TBG/D.P. DEPTH:	· · · ·	······	
TBG/D.P. LB/FT:		<u> </u>		TOOL DEPTH:	<u> </u>		
PACKER OR RETAI	INER:			PERF/HOLE DEPTH	:		
······································			SUR	ACE EQUIPMENT			
CEMENT HEAD	SIZE:			QUICK CONNECT S	IZE:		
DRILL PIN SIZE/T	YPE: 4 1/2 IF			THREAD:	EUE		
TUBING SWEDGE	SIZE:			TAKE 2 -2 INCH RE	GULAR TUBING	G SWEDGES	
			CHE	MICALS NEEDED			
				CONDICATION		<u> </u>	
SUPERVISOR 1:	Keith Jac	kson		EQUIPMENT		Diego Ortega	
	Keith Jac	kson	······			Diego Ortega	
SUPERVISOR 2:		-	·	FIELD REPRESENTA			
SUPERVISOR 2: PUMP OPERATO		erches		FIELD REPRESENTA SAFETY REPRESEN	TATIVE:	2	
SUPERVISOR 2: PUMP OPERATO E/O: E/O:	R: Alfred Pe	erches Izalez		FIELD REPRESENTA SAFETY REPRESEN UNIT NUMBER:	TATIVE: 1035/2052	2	
SUPERVISOR 2: PUMP OPERATO E/O: E/O: E/O:	R: Alfred Pe Alex Gon	erches Izalez		FIELD REPRESENTA SAFETY REPRESEN UNIT NUMBER: UNIT NUMBER:	TATIVE: 1035/2052 1037/2053	2	
SUPERVISOR 2: PUMP OPERATO E/O: E/O: E/O: E/O:	R: Alfred Pe Alex Gon	erches Izalez		FIELD REPRESENTA SAFETY REPRESEN UNIT NUMBER: UNIT NUMBER: UNIT NUMBER: UNIT NUMBER: UNIT NUMBER:	TATIVE: 1035/2052 1037/2053	2	
SUPERVISOR 2: PUMP OPERATO E/O: E/O: E/O: E/O:	R: Alfred Pe Alex Gon	erches Izalez		FIELD REPRESENTA SAFETY REPRESEN UNIT NUMBER: UNIT NUMBER: UNIT NUMBER: UNIT NUMBER: UNIT NUMBER: UNIT NUMBER:	TATIVE: 1035/2052 1037/2053	2	
SUPERVISOR 2: PUMP OPERATO E/O: E/O: E/O: E/O:	R: Alfred Pe Alex Gon Mario M	erches izalez unoz		FIELD REPRESENTA SAFETY REPRESEN UNIT NUMBER: UNIT NUMBER: UNIT NUMBER: UNIT NUMBER: UNIT NUMBER:	TATIVE: 1035/2052 1037/2053	2	
SUPERVISOR 2: PUMP OPERATO E/O: E/O: E/O: E/O:	R: Alfred Pe Alex Gon Mario M	erches Izalez		FIELD REPRESENTA SAFETY REPRESEN UNIT NUMBER: UNIT NUMBER: UNIT NUMBER: UNIT NUMBER: UNIT NUMBER: UNIT NUMBER:	TATIVE: 1035/2052 1037/2053	2	
SUPERVISOR 2: PUMP OPERATO E/O: E/O: E/O: E/O: E/O: 1ST SLURRY	R: Alfred Pe Alex Gon Mario M	erches izalez unoz	MIX H20:	FIELD REPRESENTA SAFETY REPRESEN UNIT NUMBER: UNIT NUMBER: UNIT NUMBER: UNIT NUMBER: UNIT NUMBER: UNIT NUMBER: FLUID DATA	TATIVE: 1035/2057 1037/205 XXXX/2064	2	
SUPERVISOR 2: PUMP OPERATO E/O: E/O: E/O: E/O: E/O: 1ST SLURRY DENSITY: [15.6	R: Alfred Pe Alex Gon Mario M H+0.2%PF1 YIELD:	erches Izalez unoz 13(Retarder)	Mix H20:	FIELD REPRESENTA SAFETY REPRESEN UNIT NUMBER: UNIT NUMBER: UNIT NUMBER: UNIT NUMBER: UNIT NUMBER: UNIT NUMBER: FLUID DATA	TATIVE: 1035/2057 1037/205 XXXX/2064	2 1 4	
SUPERVISOR 2: PUMP OPERATO E/O: E/O: E/O: E/O: E/O: 1ST SLURRY DENSITY: [15.6 2ND SLURRY	R: Alfred Pe Alex Gon Mario M : H+0.2%PF3 : YIELD:	erches Izalez unoz 13(Retarder)		FIELD REPRESENTA SAFETY REPRESEN UNIT NUMBER: UNIT NUMBER: UNIT NUMBER: UNIT NUMBER: UNIT NUMBER: FLUID DATA	TATIVE: 1035/2057 1037/205 XXXX/2064	2 1 4	
SUPERVISOR 2: PUMP OPERATO E/O: E/O: E/O: E/O: E/O: E/O: 2ND SLURRY DENSITY:	R: Alfred Pe Alex Gon Mario M : H+0.2%PF: YIELD: : YIELD:	erches Izalez unoz 13(Retarder)	MIX H20:	FIELD REPRESENTA SAFETY REPRESEN UNIT NUMBER: UNIT NUMBER: UNIT NUMBER: UNIT NUMBER: UNIT NUMBER: UNIT NUMBER: FLUID DATA	TATIVE: 1035/2057 1037/205 XXXX/2064	2 1 4	
SUPERVISOR 2: PUMP OPERATO E/O: E/O: E/O: E/O: E/O: IST SLURRY DENSITY: 15.6 2ND SLURRY DENSITY: 3RD SLURRY	R: Alfred Pe Alex Gon Mario M : : : : YIELD: : : YIELD: :	erches Izalez unoz 13(Retarder)	MIX H2O:	FIELD REPRESENTA SAFETY REPRESEN UNIT NUMBER: UNIT NUMBER: UNIT NUMBER: UNIT NUMBER: UNIT NUMBER: UNIT NUMBER: FLUID DATA 5.2 SACKS:	TATIVE: 1035/2052 1037/2052 XXXX/2064	2 1 4	
SUPERVISOR 2: PUMP OPERATO E/O: E/O: E/O: E/O: E/O: E/O: DENSITY: 15.6 2ND SLURRY DENSITY: 3RD SLURRY DENSITY: 1	R: Alfred Pe Alex Gon Mario M : : : : : : : : : : : : : : : : : : :	erches Izalez unoz 13(Retarder)		FIELD REPRESENTA SAFETY REPRESEN UNIT NUMBER: UNIT NUMBER: UNIT NUMBER: UNIT NUMBER: UNIT NUMBER: FLUID DATA	TATIVE: 1035/2052 1037/2052 XXXX/2064	2 1 4	
SUPERVISOR 2: PUMP OPERATO E/O: E/O: E/O: E/O: E/O: DENSITY: 15.6 2ND SLURRY DENSITY: 3RD SLURRY DENSITY: 3RD SLURRY DENSITY: 4TH SLURRY	R: Alfred Pe Alex Gon Mario M 	erches Izalez unoz 13(Retarder)	MIX H20:	FIELD REPRESENTA SAFETY REPRESENTA UNIT NUMBER: UNIT NUMBER: UNIT NUMBER: UNIT NUMBER: UNIT NUMBER: UNIT NUMBER: FLUID DATA 5.2 SACKS: SACKS:	TATIVE: 1035/2057 1037/205 XXXX/2064	2 1 4	
SUPERVISOR 2: PUMP OPERATO E/O: E	R: Alfred Pe Alex Gon Mario M : : : : : : : : : : : : : : : : : : :	erches Izalez unoz 13(Retarder)	MIX H2O:	FIELD REPRESENTA SAFETY REPRESENTA UNIT NUMBER: UNIT NUMBER: UNIT NUMBER: UNIT NUMBER: UNIT NUMBER: UNIT NUMBER: FLUID DATA 5.2 SACKS: SACKS:	TATIVE: 1035/2057 1037/205 XXXX/2064	2 1 4	
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JOB LOG

PAR P FIVE

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COMPANY N	AME: C				DATE: 12/4/2019
LEASE NAME	: 10	SLOO 1	9 24 STATE	FED COM	TICKET NUMBER: 9907
WELL NUMB	ER: 1	4H			JOB TYPE:
SCHEDULED L	OCATION	TIME:		10:00	DATE LEFT LOCATION: 12/5/2019
TIME ARRIVE				13:00	TIME LEFT LOCATION: 8:00
ET GO	in the second	: :	279 G. F	sy: * : -	
	1987 (1987 - 1987 - 1987) 1987 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 -	- ta kar i			
<u></u>			· · · ·	į	
11:15				ļi	PRE-CONVOY MEETING
11:30				 	DEPARTURE FROM YARD
13:00					ARRIVE LOCATION
13:10					HAZZARD ASSESMENT
13:20					PRE-RIG UP MEETING
13:30					RIG UP GROUND AS MUCH AS POSSIBLE
20:00				├ ───┤	ALL OF CEMENT ON LOCATION
0:45				╡───┤	TOLD TO GET READY
1:15					SPOT TRUCKS AND RIG UP
2:20					PRE JOB SAFETY MEETING
2:42	2400		2	1	TEST LINES
2:47	260		20	3.5	FRESH WATER AHEAD
2:53	306		504	4.5	CEMENT - 2400 SKS / 504 BBLS / 15.6#
4:45					SHUT DOWN, PRODUCT LINE ON GROUNG PACKED OFF
5:24	- 460				
5:57	160		5	4	DISPLACEMENT - FRESH WATER
5:59	170		25	4	DISPLACEMENT - BRINE
6:05	308		10	3	DISPLACEMENT - BRINE
6:08	560		45	2	DISPLACEMENT - BRINE
6:32	400			├ ─── ├	
6:35	0				CHECK FLOAT - HELD - 1/4 BBL BACK
					****NOTE - ALL TIMES ARE MOUNTAIN TIME ZONE****
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PAR) ENERGY SE	P FIV				ve Energ 11279 Lov Artes)748-8610	vington I sia , NM	łwy			ART	19-1	1606-02
Customer: Caza	Operating				MD:	3400				Report Dat	te: Dece	mber 04 201
/ell Name: Iglo	o 19 24 State	Fed Com 1	4H		TVD:	3400				Stag	je:	ISO Plug
County: Lea		Stat	te: NM		BHST:	107				Strin	ig:	Plug
Rig: Nab	or M15				BHCT:	93				Blend Typ	e: I	Pilot Blend
Salesman: Kuri	t Crowe								I	Reported B	ly: Hern	andez, Patricia
				······································	Say my my	ຄົງແມ່ລະວາ	1					
					Yield: 1.:	18 cuft/s	sk			M	lix Fluid:	5.216 gal/sk
ensity: 15.60 g	PPg											erste Bailow
ensity: 15.60 p ement Blend:	Class	н			Seren Gu	_		• ; - <u></u>	• •			Build
ement Blend: Additive Conc		Design D	escriptic etarder	on		<u>movstia</u> L						oran Bailou
ement Blend: Additive Conc	Class	Design D BWOB R	etarder .	on		<u>movstia</u> L	ot Numl	52BK	Delkorfing			
ement Blend: dditive Conc F-013 0.2	Class entration 0% %	Design D BWOB R	etarder .	on PV		<u>movstia</u> L	ot Numl	52BK	So Bc		100 Bc	Batch Time
ement Blend: dditive Conc F-013 0.2	Class entration 0% %	Design D BWOB R	etarder			L N	ot Numl MM02C-27! POD 5:52	30 Bc 6:03	50 Bc 6:32	70 Bc 6:56	100 Bc	Batch Time 0
ement Blend: dditive Conc F-013 0.2	Class centration 0% %	Design D BWOB R DUARC TOTAL	etarder	PV	Server Co YP	L	ot Numl MM02C-27! POD 5:52	30 Bc 6:03	50 Bc 6:32	70 Bc	100 Bc	Batch Time 0
ement Blend: dditive Conc F-013 0.2	Class entration 0% % 6 100 2.5 9 21 36	Design D BWOB R 200 1 17.5	etarder <u>1935)</u> 300 26	PV 25.5	Sec. 5	L	ot Numl MM02C-27! POD 5:52	30 Bc 6:03	50 Bc 6:32	70 Bc 6:56	100 Bc	Batch Time 0
ement Blend: dditive Conc F-013 0.2	Class centration 0% % Biocology (Av 6 100 2.5 9 21 36 Effe	Design D BWOB R 200 1 17.5 44.5	etarder 17:5) 300 26 52	PV 25.5 24	Sec. 5	L	ot Numl MM02C-27! POD 5:52	30 Bc 6:03	50 Bc 6:32	70 Bc 6:56	100 Bc	Batch Time 0
ement Blend: dditive Conc F-013 0.2 Femp 3 30 °F 2 93 °F 14.5	Class centration 0% % Biocology (Av 6 100 2.5 9 21 36 Effe	Design D BWOB R 200 17.5 44.5 5	etarder 17:5) 300 26 52	PV 25.5 24	YP 0.5 28	L	ot Numl MM02C-27! POD 5:52	30 Bc 6:03	50 Bc 6:32	70 Bc 6:56	100 Bc	Batch Time 0

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The above data is for informational purposes, and Par Five Energy Services LLC, makes no guarantees or warranties, either expressed or implied, with respect to the accuracy or use of these data and interpretations.



ENERGY SERVICES LLC

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JOB PROCEDURE

PRE-PLANNED JOB PROCEDURE

EVENT	VOLUME(BBLS)	SACKS	WEIGHT	YIEL	D GAL/SK
TEST LINES					
F/W	20	<u> </u>	······		
CEMENT	504	2400	15.6#	1.18	3 5.216
F/W	1	2400	13.0#		5
BRINE	35 88			+	
SHUT DOWN			······································		
	·····				
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	······				
DISPLACEMENT	TOTAL PIPE	SHOE JOINT	FLOAT COLLAR	BBL/	FT H2O REQ
#N/A	3400	0	3400	#N//	A 350
OTAL DISPLACEMENT	#N/A			<u> </u>	
CALCULATED DI	FFERENTIAL PSI		TOTAL FLUID P	UMPED	560
COLLAPSE		BURST		C/0	11606
CASING SIZE		CASING LB/FT		GRADE	

					a Operating	-					
					OPERATION	-					
WELL:		Igloo 19-24 Stat	e Fed Co	om 14H	Drilling AFE Ar			\$3,286,7			
FIELD:		Lea; 2nd Bone \$	Spring		Completion AF	E Amount		\$7,193,50 \$10,480,2			
COUNTY/STA	TE	Lea/New Mexico	D		IUTAL ALL.			\$10, - 00,,	250		
PTD:		18,000									
LOCATION:		S19 T20S R35E & 2514 FEL	: NMPM	450 FSL							
ELEVATION (RKB):	22									
API #:		30-025-46412									
SERIAL NO:											
SPUD DATE:		Nov 24 2019									
OBJECTIVE:		1st Bone Spring									
JOB NAME:		Drilling									
		•									
		CONTRACTOR	RIG#:		Nabors/M51						
		Volimeneren		<u></u>							
Dec 4 2019	MD:	5,535	TVD:		FOOTAGE:		MW:	9.7	LB	PTD:	18,000
•		UPERVISOR:		Michael Wi	lliamson / Chris	Beebe		-		PBTD:	
·											
	Lay do *** M 3,413' WOB,	ENT OPERATIONS: own fishing tools (lill,bit sub, X/O,Jars ;Tag the top of the Mill keeps goin do	Spear) ur s,X/O,6 joi e fish @ 3, wn beside	nable to spe int 6" drill c ,414' set 20 of the fish,	ollars,X/O Energ k down P/U and (FULL RETURI	e out fishing gizer,X/O, H d turn rotary NS)	WDP,; / on to	Trip in the 60rpms t	e hole ag fisl	h, pumps (@ 300gpms
	Lay do *** M 3,413' WOB, ** No open I up 16 hand.	own fishing tools (lill,bit sub, X/O,Jars ';Tag the top of the Mill keeps goin do metal shavings at hole logs.;Lay out a stands of 2 7/8" tu Pick up PIP, pick	Spear) ur s,X/O,6 joi e fish @ 3, wn beside shakers** and strap ubing, unl up whlp s	nable to spe int 6" drill c ,414' set 20 e of the fish, **;Pull out c 2 7/8" drill load and stu stock, Make	ar fish.; Change ollars, X/O Energ k down P/U and (FULL RETUR of the hole with string. Wait or ap whip stock a up Pip to 2 7/8	e out fishing gizer,X/O, H d turn rotary NS) Mill assy. L n whip stock and subs. I " tubing. M	WDP,; y on to ay dov c, orier Hold P lake u	Trip in the 60rpms to nting sub a JSM with in p whip sto	BHA.; BHA.; and 2 rig cre	h, pumps (Rig up wir 7/8" handl w, DD, an d UBHO. S	2 300gpms eline;Run ling tools.;F d Baker too Scribe whip
	Lay do *** M 3,413' WOB, ** No open l up 16 hand. stock	own fishing tools (ilili,bit sub, X/O,Jars ;Tag the top of the Mill keeps goin doo metal shavings at hole logs.;Lay out a stands of 2 7/8" tu Pick up PIP, pick and UBHO with VE	Spear) ur s,X/O,6 joi e fish @ 3, wn beside shakers** and strap ubing, unl up whip s S and dire	nable to spe int 6" drill c ,414' set 20 e of the fish, **;Pull out c 2 7/8" drill load and stu stock, Make	ar fish.; Change ollars, X/O Energ k down P/U and (FULL RETUR of the hole with string. Wait or ap whip stock a up Pip to 2 7/8	e out fishing gizer,X/O, H d turn rotary NS) Mill assy. L n whip stock and subs. I " tubing. M	WDP,; y on to ay dov c, orier Hold P lake u	Trip in the 60rpms to nting sub a JSM with in p whip sto	BHA.; BHA.; and 2 rig cre	h, pumps (Rig up wir 7/8" handl w, DD, an d UBHO. S	2 300gpms eline;Run ling tools.;P d Baker too Scribe whip
	Lay do **** M 3,413' WOB, ** No open I up 16 hand. stock	own fishing tools (lill,bit sub, X/O,Jars ';Tag the top of the Mill keeps goin do metal shavings at hole logs.;Lay out a stands of 2 7/8" tu Pick up PIP, pick	Spear) ur s,X/O,6 joi e fish @ 3, wn beside shakers** and strap ubing, unl up whip s S and dire	nable to spe int 6" drill c ,414' set 20 e of the fish, **;Pull out c 2 7/8" drill load and stu stock, Make	ar fish.; Change ollars, X/O Energ k down P/U and (FULL RETUR of the hole with string. Wait or ap whip stock a up Pip to 2 7/8	e out fishing gizer,X/O, H d turn rotary NS) Mill assy. L n whip stock and subs. I " tubing. M	WDP,; y on to ay dov c, orier Hold P lake u	Trip in the 60rpms to nting sub a JSM with in p whip sto	BHA.; BHA.; and 2 rig cre	h, pumps (Rig up wir 7/8" handl w, DD, an d UBHO. S	2 300gpms eline;Run ling tools.;P d Baker too Scribe whip
	Lay do **** M 3,413' WOB, ** No open I up 16 hand. stock Full Ci No Ac	own fishing tools (lill,bit sub, X/O,Jars ;Tag the top of the Mill keeps goin doo metal shavings at hole logs.;Lay out a stands of 2 7/8" to Pick up PIP, pick and UBHO with VE rews days and nigh	Spear) ur s,X/O,6 joi e fish @ 3, wn beside shakers** and strap ubing, unl up whip s S and dire	nable to spe int 6" drill c ,414' set 20 e of the fish, **;Pull out c 2 7/8" drill load and stu stock, Make	ar fish.; Change ollars, X/O Energ k down P/U and (FULL RETUR of the hole with string. Wait or ap whip stock a up Pip to 2 7/8	e out fishing gizer,X/O, H d turn rotary NS) Mill assy. L n whip stock and subs. I " tubing. M	WDP,; y on to ay dow c, orier Hold P lake u Trip s	Trip in the o 60rpms t nting sub a JSM with i p whip sto peed is 3	BHA.; BHA.; and 2 rig cre ck and minut	h, pumps (Rig up wir 7/8" handl w, DD, an d UBHO. S	2 300gpms eline;Run ling tools.;F d Baker too Scribe whip
	Lay do **** M 3,413' WOB, ** No open l up 16 hand. stock Full Cl No Ac DAILY	by the set of the set	Spear) ur s,X/O,6 joi e fish @ 3, wn beside shakers** and strap ubing, unl up whip s S and dire	nable to spe int 6" drill c ,414' set 20 e of the fish, **;Pull out (2 7/8" drill load and stu stock, Make ectional drill	ar fish.;Change ollars,X/O Energ k down P/U and (FULL RETURI of the hole with string. Wait or ap whip stock a up Pip to 2 7/8 er.;Trip n hole t	e out fishing gizer,X/O, H d turn rotan NS) Mill assy. L n whip stock and subs. I " tubing. M to the shoe	WDP,; y on to ay dow c, orier Hold P lake u Trip s	Trip in the o 60rpms t nting sub a JSM with i p whip sto peed is 3	BHA.; BHA.; and 2 rig cre ck and minut	h, pumps (Rig up wir 7/8" handl w, DD, an d UBHO. S es per star	2 300gpms eline;Run ling tools.;P d Baker too Scribe whip
	Lay do *** M 3,413' WOB, ** No open l up 16 hand. stock Full Cl No Ac DAILY TOTAI	own fishing tools (lill,bit sub, X/O,Jars ';Tag the top of the Mill keeps goin do metal shavings at hole logs.;Lay out a stands of 2 7/8" tu Pick up PIP, pick and UBHO with VE rews days and nigh cidents, No Spills. ' JOB COST: L WELL COST:	Spear) ur s,X/O,6 joi e fish @ 3, wn beside shakers** and strap ubing, unl up whip s S and dire	hable to spe int 6" drill c ,414' set 20 e of the fish, **;Pull out i 2 7/8" drill load and st stock, Make ectional drill \$71,959	ar fish.;Change ollars,X/O Energ k down P/U and (FULL RETURI of the hole with string. Wait or ap whip stock a up Pip to 2 7/8 er.;Trip n hole t	e out fishing gizer,X/O, H d turn rotan NS) Mill assy. L m whip stock and subs. I " tubing. M to the shoe TOTAL JOE	WDP,; y on to ay dow c, orier Hold P lake u Trip s	Trip in the 60rpms t vn fishing sub a JSM with i p whip sto peed is 3	BHA.; BHA.; and 2 rig cre ck and minut	h, pumps (Rig up wir 7/8" handl w, DD, and d UBHO. S es per star 241,364	300gpms eline;Run ing tools.;F d Baker too Scribe whip nd.
Dec 3 2019	Lay do *** M 3,413' WOB, ** No open I up 16 hand. stock Full Cl No Ac DAILY TOTAL	own fishing tools (lill,bit sub, X/O,Jars ';Tag the top of the Mill keeps goin door metal shavings at hole logs.;Lay out a stands of 2 7/8" to Pick up PIP, pick and UBHO with VE rews days and nigh cidents, No Spills. ' JOB COST:	Spear) ur s,X/O,6 joi e fish @ 3, wn beside shakers** and strap ubing, unl up whip s S and dire	hable to spe int 6" drill c ,414' set 20 e of the fish, **;Pull out 2 7/8" drill load and st stock, Make ectional drill \$71,959 \$1,543,180	ear fish.;Change ollars,X/O Energ k down P/U and (FULL RETUR of the hole with string. Wait or ap whip stock a up Pip to 2 7/8 er.;Trip n hole t	e out fishing gizer,X/O, H d turn rotan NS) Mill assy. L and subs. I " tubing. M to the shoe TOTAL JOE	WDP,; y on to ay dow c, orier Hold P lake u Trip s	Trip in the 60rpms t vn fishing sub a JSM with i p whip sto peed is 3	BHA.; and 2 rig cre ck and minut \$1,2	h, pumps (Rig up wir 7/8" handl w, DD, and d UBHO. S es per star 241,364	2 300gpms eline;Run ling tools.;F d Baker too Scribe whip
 Dec 3 2019	Lay do **** M 3,413' WOB, ** No open I up 16 hand. stock Full CI No Ac DAILY TOTAI	own fishing tools (lill,bit sub, X/O,Jars ;Tag the top of the Mill keeps goin do metal shavings at hole logs.;Lay out a stands of 2 7/8" tu Pick up PIP, pick and UBHO with VE rews days and nigh cidents, No Spills. JOB COST: L WELL COST: 5,535	Spear) ur, s,X/O,6 joi e fish @ 3, wn beside shakers** and strap ubing, uni up whip s S and dire nts	hable to spe int 6" drill c ,414' set 20 e of the fish, **;Pull out 2 7/8" drill load and st stock, Make ectional drill \$71,959 \$1,543,180 Michael Wi	ear fish.;Change ollars,X/O Energ k down P/U and (FULL RETUR of the hole with string. Wait or ap whip stock a up Pip to 2 7/8 er.;Trip n hole t	e out fishing gizer,X/O, H d turn rotan NS) Mill assy. L n whip stock and subs. I " tubing. M to the shoe TOTAL JOE 20 5 Beebe	WDP,; y on to ay dow c, orier Hold P lake u Trip s	Trip in the 60rpms t vn fishing sub a JSM with i p whip sto peed is 3	BHA.; and 2 rig cre ck and minut \$1,2	h, pumps (Rig up wir 7/8" handl w, DD, an d UBHO. S es per star 241,364 PTD:	2 300gpm: eline;Run ing tools.; d Baker too Scribe whip nd.
Dec 3 2019	Lay dd **** M 3,413' WOB, ** No open I up 16 hand. stock Full Ci No Acc DAILY TOTAI MD: RIG S PRESE Pull ot ** cal start I: ** DV on fiss make	own fishing tools (lill,bit sub, X/O,Jars ;Tag the top of the Mill keeps goin do metal shavings at hole logs.;Lay out a stands of 2 7/8" tu Pick up PIP, pick and UBHO with VE rews days and nigh cidents, No Spills. JOB COST: L WELL COST: 5,535 UPERVISOR:	Spear) ur s,X/O,6 joi e fish @ 3, wn beside shakers** and strap bubing, unl up whip s S and dire nts TVD: TVD: TVD: TVD: ang with ca ing part @ casing. er 15 inch SPEAR, SPI	hable to spe int 6" drill c ,414' set 20 e of the fish, **;Pull out c 2 7/8" drill load and st stock, Make ectional drill \$71,959 \$1,543,180 Michael Wi Laying dow aliber log. 0 3,113' *** hes of dvt to bad, lay out	ear fish.;Change ollars,X/O Energ k down P/U and (FULL RETUR of the hole with string. Wait or ap whip stock a up Pip to 2 7/8 er.;Trip n hole t FOOTAGE: Iliamson / Chris m fishing tools. ;Rig down VES ol and 1,700' o and strap tools.	e out fishing gizer,X/O, H d turn rotan NS) Mill assy. L n whip stock and subs. I " tubing. M to the shoe TOTAL JOE 20 5 Beebe wire line th f casing left Hold PJSM	WDP,; y on to ay dow c, orier Hold P lake u Trip s & COST MW: uck an in the with f	Trip in the 60rpms t vn fishing sub a JSM with a p whip sto peed is 3 r: 9.9 d tools.;R hole ***;	e hole ag fisi BHA.; ig cre ck and minut \$1,2 LB Ig up I Rig de d and	h, pumps (Rig up wir 7/8" handl w, DD, an UBHO. S es per star 241,364 PTD: PBTD: Butches ca pwn casing rig crew.;	2 300gpm: eline;Run ling tools.;I d Baker too Scribe whip nd. 18,000 sing crew a g crew;Wait Pick up and
Dec 3 2019	Lay do *** M 3,413' WOB, ** No open l up 16 hand. stock Full Ci No Ac DAILY TOTAI MD: RIG SI PRESE Pull ot ** cal start l ** DV on fist make HWDF	own fishing tools (lill,bit sub, X/O,Jars ';Tag the top of the Mill keeps goin do metal shavings at hole logs.;Lay out a stands of 2 7/8" tt Pick up PIP, pick and UBHO with VE rews days and nigh cidents, No Spills. ' JOB COST: L WELL COST: L WELL COST: L WELL COST: S,535 UPERVISOR: ENT OPERATIONS: ut of the hole loggi liber log shows casi aying down 9 5/8 c T washed out, low hing tools.;Tools ar up fishing BHA. S	Spear) ur s,X/O,6 joi e fish @ 3, wn beside shakers** and strap ubing, unl up whip s is and dire its s and dire its TVD: TVD: TVD: TVD: *: s inch trive, Unlo SPEAR, SPI - 3427'. **;Work i	hable to specific	FOOTAGE: liamson / Christian bilams, X/O Energy k down P/U and (FULL RETUR of the hole with string. Wait or ap whip stock a up Pip to 2 7/8 er.; Trip n hole t FOOTAGE: liamson / Christ in fishing tools. chang down VES ol and 1,700' of and strap tools. LBS, DRILLING	e out fishing gizer,X/O, H d turn rotan NS) Mill assy. L o whip stock and subs. I " tubing. M to the shoe TOTAL JOE 20 5 Beebe wire line th f casing left Hold PJSM JARS, XO, 0	WDP,; y on to ay dov c, orient Hold P lake u Trip s 3 COST MW: MW:	Trip in the 60rpms t vn fishing sub a JSM with i p whip sto peed is 3 r: 9.9 d tools.;R hole ***; ishing han RILL COLL	e hole ag fisl BHA.; ig cre ck and minut \$1,2 LB Ig up I Rig dd ARS, 1	h, pumps (Rig up wir 7/8" handl w, DD, an d UBHO. S es per star 241,364 PTD: PBTD: PBTD: Butches ca pwn casing rig crew.; XO, ENER(2 300gpm: eline;Run ling tools.; d Baker too Scribe whip nd. 18,000 sing crew a g crew;Wait Pick up and SIZER, XO
Dec 3 2019	Lay do *** M 3,413' WOB, ** No open I up 16 hand. stock Full Ci No Ac DAILY TOTAI MD: RIG S PRESE Pull oc ** cal start I ** DV on fist make HWDF ** Tag 68'.;Li	bwn fishing tools (illi,bit sub, X/O,Jars' 'Tag the top of the Mill keeps goin door metal shavings at hole logs.;Lay out a stands of 2 7/8" tu Pick up PIP, pick and UBHO with VE rews days and nigh- cidents, No Spills. 'JOB COST: L WELL COST: 5,535 UPERVISOR: ENT OPERATIONS: ut of the hole loggi iber log shows casi aying down 9 5/8 c T washed out, low- hing tools.;Tools ar up fishing BHA. S -;Trip in hole BHA gged Fish @ 3427"	Spear) ur s,X/O,6 joi e fish @ 3, wn beside shakers** and strap ubing, unl up whip s is and dire its s and dire its TVD: TVD: TVD: TVD: *: s inch trive, Unlo SPEAR, SPI - 3427'. **;Work i	hable to specific	FOOTAGE: liamson / Christian bilams, X/O Energy k down P/U and (FULL RETUR of the hole with string. Wait or ap whip stock a up Pip to 2 7/8 er.; Trip n hole t FOOTAGE: liamson / Christ in fishing tools. chang down VES ol and 1,700' of and strap tools. LBS, DRILLING	e out fishing gizer,X/O, H d turn rotan NS) Mill assy. L o whip stock and subs. I " tubing. M to the shoe TOTAL JOE 20 5 Beebe wire line th f casing left Hold PJSM JARS, XO, 0	WDP,; y on to ay dov c, orieur Hold P lake u Trip s & COST MW: MW: MW: hold P lake u trip s at cost MW:	Trip in the 60rpms t vn fishing ting sub a JSM with i p whip sto peed is 3 r: 9.9 d tools.;R hole ***; ishing han RILL COLL No succes	e hole ag fisl BHA.; ig and 2 and 2 ig cre ck and minut \$1,2 LB Ig up I Rig dd ARS, 1 s fishi	h, pumps (Rig up wir 7/8" handl w, DD, an d UBHO. S es per star 241,364 PTD: PBTD: PBTD: Butches ca pwn casing rig crew.; XO, ENER(2 300gpm: eline;Run ling tools.;I d Baker too Scribe whip nd. 18,000 sing crew;Wai Pick up and SIZER, XO

Dec 2 2019	MD: 5,515	TVD:	FOOTAGE:	M۱	V: 9.9	LE	PTD:	18,000	
	RIG SUPERVISOR:		Michael Williamson / Chi	ris Beebe			PBTD:		
	PRESENT OPERATIONS: Running Wireline								
	casing tools, rig up P test good) ** Cement as follow	***;L/D 2 joi ar Five ceme ed 20bbls C	ints, pick up cactus landing enters;PJSM with rig crev hemical Wash with dye, 1	and par five ce	menter	s, Test cer	nent lines t		
	*** Did not bump pl cement ;Circulate an Blackhawk tool hand gone, landed plug in psi, Casing string jun	6bbls brine (ug no lift pre d condition. . Load plug i dv tool, beg nped and we wireline equ	①10.0ppg ***(3bbls over ssure, well on vacuum de Pump casing capacity. 38 n cement head and pump an to pressure up to 1500 lost all pressure.;Rig dow ipment. Run in hole with	cision was made 1 bbls @ 10 bpr 259 bbls @ 8 bl psi per black ha n cement head	ns, 250 ols/min. wk tool and cen	-spp;Hold reduced i hand, p nent lines.	PJSM with ate to 4 bp ressure inc ;PJSM with	rig crew and om @ 200 bils reased to 738 VES wirrellin	
	DAILY JOB COST:		\$256,597	TOTAL JOB C	0ST·	¢	1,050,829		
	TOTAL WELL COST:		\$1,352,651			Ţ	.,,		
Dec 1 2019	MD: 5,515	TVD:	5,515 FOOTAGE:		N: 8.4	- Li	PTD:	18,000	
	RIG SUPERVISOR:		Michael Williamson / Chi	ns beede			PBTD:		
	PRESENT OPERATIO		Running Casing						
	Wiper trip F/ 5,000'	r/ 3,500'							
		o binning i	up Butch's casing crew and						
	** Tight spot 4410' Full Crews days and	5133' ** nights	10'.;Wash and ream casin	ng. F/4410' - T/5	133'. G	PM-650 S	PP-235.		
	** Tight spot 4410 Full Crews days and No Accidents No Spil	5133' ** nights			-				
	** Tight spot 4410' Full Crews days and No Accidents No Spil DAILY JOB COST:	5133' ** nights	\$54,297	ig. F/4410' - T/5 TOTAL JOB C	-		PP-235. 794,232		
	** Tight spot 4410 Full Crews days and No Accidents No Spil	5133' ** nights			-				
Nov 30 2019	** Tight spot 4410' Full Crews days and No Accidents No Spil DAILY JOB COST:	5133' ** nights	\$54,297	TOTAL JOB C	-	\$1		18,000	
Nov 30 2019	** Tight spot 4410' Full Crews days and No Accidents No Spil DAILY JOB COST: TOTAL WELL COST:	5133' ** nights Is	\$54,297 \$1,096,054	TOTAL JOB C	OST:	\$1	794,232	18,000	
Nov 30 2019	** Tight spot 4410' Full Crews days and No Accidents No Spil DAILY JOB COST: TOTAL WELL COST: MD: 5,515	5133' ** nights ls TVD:	\$54,297 \$1,096,054 5,515 FOOTAGE:	TOTAL JOB C	OST:	\$1	794,232 3 PTD:	18,000	
Nov 30 2019	** Tight spot 4410' Full Crews days and No Accidents No Spil DAILY JOB COST: TOTAL WELL COST: MD: 5,515 RIG SUPERVISOR: PRESENT OPERATIO	5133' ** nights ls TVD: NS:	\$54,297 \$1,096,054 5,515 FOOTAGE: Michael Williamson / Ch	TOTAL JOB C 883 Mi ris Beebe	0ST: V: 8.4	\$: 	794,232 3 PTD: PBTD:		
Nov 30 2019	 ** Tight spot 4410' Full Crews days and No Accidents No Spil DAILY JOB COST: TOTAL WELL COST: MD: 5,515 RIG SUPERVISOR: PRESENT OPERATIO Rotate 4,632' - 4,912 *** Torque and diff due tight hole;Pull of 	5133' ** nights ls TVD: NS: 2' (280 @ 70 fell off decisi ut of the hole	\$54,297 \$1,096,054 5,515 FOOTAGE: Michael Williamson / Chi Making wiper trip	TOTAL JOB C 883 Mi ris Beebe 550 SPP-1300 DI e hole****;Back and motor.;Cha	OST: V: 8.4 FF-300 ream o nge ou	\$7 	794,232 3 PTD: PBTD: 70+110. TC pole F/ 4,91)-10K	
Nov 30 2019	** Tight spot 4410' Full Crews days and No Accidents No Spil DAILY JOB COST: TOTAL WELL COST: MD: 5,515 RIG SUPERVISOR: PRESENT OPERATIO Rotate 4,632' - 4,912 *** Torque and diff due tight hole;Pull ou ** Bit dulled out *** ** Remove rotating	5133' ** nights Is TVD: NS: 2' (280 @ 70 fell off decisi at of the hole ;Service rig head and ins	\$54,297 \$1,096,054 5,515 FOOTAGE: Michael Williamson / Ch Making wiper trip FPH) WOB-35-40 GPM-6 ion made to pull out of the to BHA to change out bit	TOTAL JOB C 883 MV ris Beebe 550 SPP-1300 DI e hole****;Back and motor.;Cha hole F/BHA T/43 ash and ream F/	OST: V: 8.4 FF-300 ream o nge ou 50' 4350' T	\$ BHRPM- 7 ut of the h t bit and n /4912'. (794,232 3 PTD: PBTD: 70+110. TC sole F/ 4,91 sotor . 5PM-650, S	2-10K 2' T/ 4,600' PP-1100,	
Nov 30 2019	 ** Tight spot 4410' Full Crews days and No Accidents No Spil DAILY JOB COST: TOTAL WELL COST: TOTAL WELL COST: MD: 5,515 RIG SUPERVISOR: PRESENT OPERATIO Rotate 4,632' - 4,912 *** Torque and diff due tight hole;Pull oi ** Bit dulled out *** ** Remove rotating 70+110 BHRPM.;Rot TQ-10K *** Back reaming eve ** Pumping Hi vis sv 	5133' ** nights ls TVD: NS: 2' (280 @ 70 fell off decisi ut of the hold ;Service rig head and ins ate 4,912' - ery stand ** veep every o	\$54,297 \$1,096,054 5,515 FOOTAGE: Michael Williamson / Ch Making wiper trip FPH) WOB-35-40 GPM-6 ion made to pull out of the to BHA to change out bit and top drive.;Trip in the I stalled rotating head **;W	TOTAL JOB C 883 Mi ris Beebe 550 SPP-1300 DI e hole****;Back and motor.;Cha hole F/BHA T/43 ash and ream F/ VOB-35-40 GPM- rvice;Rotate 5,4	OST: W: 8.4 FF-300 ream o nge ou 50' 4350' T 650 SP 82' - 5,!	\$ BHRPM- 7 ut of the h t bit and n /4912'. (P-1300 D)	794,232 3 PTD: PBTD: PBTD: 0+110. TC 1001e F/ 4,91 1000r . 5PM-650, S FF-300 BHI)-10K 12' T/ 4,600' IPP-1100, RPM- 70+110	
Nov 30 2019	 ** Tight spot 4410' Full Crews days and No Accidents No Spil DAILY JOB COST: TOTAL WELL COST: TOTAL WELL COST: MD: 5,515 RIG SUPERVISOR: PRESENT OPERATIO Rotate 4,632' - 4,912 *** Torque and diff due tight hole;Pull oi ** Bit dulled out *** ** Remove rotating 70+110 BHRPM.;Rot TQ-10K *** Back reaming eve ** Pumping Hi vis sv 	5133' ** nights Is TVD: NS: 2' (280 @ 70 fell off decisi ut of the hold ;Service rig head and ins ate 4,912' - ery stand ** veep every of DIFF-300 BH nights Is. ery stand **	\$54,297 \$1,096,054 5,515 FOOTAGE: Michael Williamson / Ch Making wiper trip FPH) WOB-35-40 GPM-6 on made to pull out of the to BHA to change out bit and top drive.;Trip in the I talled rotating head **;Wi 5,482' (570 @ 95 FPH) V ther connection **;Rig Se RPM- 70+110. TQ-10K;PC	TOTAL JOB C 883 Mi ris Beebe 550 SPP-1300 DI e hole****;Back and motor.;Cha hole F/BHA T/43 ash and ream F/ VOB-35-40 GPM- rvice;Rotate 5,4	OST: W: 8.4 FF-300 ream o nge ou 50' 4350' T 650 SP 82' - 5,!	\$ BHRPM- 7 ut of the h t bit and n /4912'. (P-1300 D)	794,232 3 PTD: PBTD: PBTD: 0+110. TC 1001e F/ 4,91 1001or . 5PM-650, S FF-300 BHI)-10K 12' T/ 4,600' (19P-1100, RPM- 70+110	
Nov 30 2019	 ** Tight spot 4410' Full Crews days and No Accidents No Spil DAILY JOB COST: TOTAL WELL COST: TOTAL WELL COST: MD: 5,515 RIG SUPERVISOR: PRESENT OPERATIO Rotate 4,632' - 4,912 *** Torque and diff due tight hole;Pull oi ** Bit dulled out *** ** Remove rotating 70+110 BHRPM.;Rot TQ-10K ** Back reaming eve ** Pumping Hi vis sv GPM-650 SPP-1300 I Full crews days and No Accidents, No Spi ** Back reaming eve 	5133' ** nights Is TVD: NS: 2' (280 @ 70 fell off decisi ut of the hold ;Service rig head and ins ate 4,912' - ery stand ** veep every of DIFF-300 BH nights Is. ery stand **	\$54,297 \$1,096,054 5,515 FOOTAGE: Michael Williamson / Ch Making wiper trip FPH) WOB-35-40 GPM-6 on made to pull out of the to BHA to change out bit and top drive.;Trip in the I talled rotating head **;Wi 5,482' (570 @ 95 FPH) V ther connection **;Rig Se RPM- 70+110. TQ-10K;PC	TOTAL JOB C 883 Mi ris Beebe 550 SPP-1300 DI e hole****;Back and motor.;Cha hole F/BHA T/43 ash and ream F/ VOB-35-40 GPM- rvice;Rotate 5,4	OST: W: 8.4 FF-300 ream o nge ou 50' 4350' T 650 SP 82' - 5,' '.	\$ BHRPM- 7 ut of the h t bit and n /4912'. (P-1300 DJ 535' (106	794,232 3 PTD: PBTD: PBTD: 0+110. TC 1001e F/ 4,91 1001or . 5PM-650, S FF-300 BHI)-10K 12' T/ 4,600' (19P-1100, RPM- 70+110	

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lov 29 2019	MD:	4,632	TVD:	4,632	FOOTAGE:		MW:		-	PTD:	18,000
		IPERVISOR:	-		Villiamson / Chri					PBTD:	
	PRESENT OPERATIONS: Drilling 12 1/4" Vertical Section Finish changing out hydraulic pump on top drive.;Trip in the hole F/1,823' T/ 2,562;Rotate 2,562' - 4,067' (1,505										
					drive.;Trip in the 2,071 DIFF-595				ate 2,50	62' - 4,06	7' (1,505
					rvice rig and top NHRPM- 70+137		ate 4,06	7' - 4350	' (283	@ 113.2	FPH)
	** Not ** Swa		e with Patr ater only *	**	50 T/4298'. Tigt	nt hole con	ditions.;	Change s	wab ou	it on #1 a	ind #2 mud
	** Not (12 @	enough flow ra			ure with 1 mud 2,071 DIFF-595						
		e tried packing (I- 70+110. TQ-)		ate 4,362' -	4,537' (175 @ 5	io FPH) V	VOB-35-	40 GPM-6	50 SPF	P-1300 DI	FF-300
	** Pun		ep every	other stand	**;Rig Service,) DIFF-300 BHRI				ve.;Rot	ate 4,537	" - 4,632' (95
	No Acc ** Bac	ews days and ni idents, No Spills k reaming every nping Hi Vis swe	s. y stand **		**						·
	DAILY	JOB COST:		\$51,605		TOTAL J	OB COS	Г:	\$70	4,285	
	TOTAL	WELL COST:		\$1,006,1	06						
Nov 28 2019	MD:	2,562	TVD:	2,562	FOOTAGE:	619	MW:	10.1	LB	PTD:	18,000
	RIG SI	JPERVISOR:		Michaell	AUD	ic Roobo				PBTD:	
		IPERVISOR.		Michael V	Williamson / Chr	S DEEDE				1010.	
	PRESE Pick up 1800'.; 1863');Rotal	NT OPERATION BHA, M/U bit, Cut and slip dri 1953'. WOB-1 te 1953' - 2562'	motor, sta Il line 24 5 RPM-50 (609' @ 1	Rig Repa ibilizer and a wraps.;Rep GPM-500;F L35 FPH) V	ir monel. Make up pair knife valve o IT test. Held for VOB-35 GPM-80	8' and 6" on #2 mud 10 minute 5 SPP-1876	pump. s. EMW DIFF-4	Valve ste 11.0 ppg 00 BHRPI	m brok) (101 4- 70+	vers.;Trip ke off.;Dri psi 10pp 137. TQ-1	lled cement F/ og mud weigh 10K;Lost
	PRESE Pick up 1800'.; 1863');Rotat hydrau ** Sto	NT OPERATION BHA, M/U bit, Cut and slip dri 1953'. WOB-1 te 1953' - 2562' lic power to top	motor, sta II line 24 5 RPM-50 (609' @ 1 0 drive, IB0 due to wa	Rig Repa abilizer and u wraps.;Rep GPM-500;F L35 FPH) V OP won't op	ir monel. Make up pair knife valve o IT test. Held for	8' and 6" on #2 mud 10 minute 5 SPP-1870 lose. Circo	pump. s. EMW DIFF-4 plated w	Valve ste 11.0 ppg 00 BHRPI ith pump	m brok) (101 M- 70+ in sub	vers.;Trip i ke off.;Drii psi 10p; 137. TQ-1 @ 300 Gf	lled cement F, og mud weigh 10K;Lost PM.
	PRESE Pick up 1800'.; 1863'-);Rotat hydrau ** Sto ** Trip	NT OPERATION BHA, M/U bit, Cut and slip dri 1953'. WOB-1 te 1953' - 2562' lic power to top pped circulating	motor, sta Il line 24 5 RPM-50 (609' @ 1 o drive, IB4 due to wa	Rig Repa bilizer and i k wraps.;Rep GPM-500;F GPM-500;F I35 FPH) V OP won't op ash out on s	ir monel. Make up pair knife valve o IT test. Held for VOB-35 GPM-80 ien, BUW wont o	8' and 6" on #2 mud 10 minute 5 SPP-1870 lose. Circo	pump. s. EMW DIFF-4 plated w	Valve ste 11.0 ppg 00 BHRPI ith pump	m brok) (101 M- 70+ in sub	vers.;Trip i ke off.;Drii psi 10p; 137. TQ-1 @ 300 Gf	lled cement F, og mud weigh 10K;Lost PM.
	PRESE Pick up 1800'.; 1863');Rotat hydrau ** Sto ** Trip Troubl Tech n	NT OPERATION b BHA, M/U bit, Cut and slip dri - 1953'. WOB-1 te 1953' - 2562' vilic power to top pped circulating to the shoe. **	motor, sta II line 24 5 RPM-50 (609' @ 1 0 drive, IBd due to wa * ulic system	Rig Repa bilizer and a kwraps.;Rep GPM-500;F I35 FPH) V OP won't op ash out on s m. Welder No	ir monel. Make up pair knife valve o IT test. Held for VOB-35 GPM-80 ien, BUW wont o	8' and 6" n #2 mud 10 minute 5 SPP-187(lose. Circi ed welder.	pump. s. EMW DIFF-4 plated w	Valve ste 11.0 ppg 00 BHRPI ith pump	m brok) (101 M- 70+ in sub	vers.;Trip i ke off.;Drii psi 10p; 137. TQ-1 @ 300 Gf	lled cement F, og mud weigh 10K;Lost PM.
	PRESE Pick up 1800'.; 1863'-);Rotat hydrau ** Sto ** Trip Troubl Tech n Tech a Full cre	NT OPERATION D BHA, M/U bit, CCut and slip dri - 1953'. WOB-1 te 1953' - 2562' lic power to top pped circulating to the shoe. *' eshooting hydra obtified @ 20:00	motor, sta II line 24 5 RPM-50 (609' @ 1 9 drive, IBG 1 due to wa * ulic system 1 hours. 1 hours.	Rig Repa bilizer and a kwraps.;Rep GPM-500;F I35 FPH) V OP won't op ash out on s m. Welder No	ir monel. Make up pair knife valve o IT test. Held for VOB-35 GPM-80 en, BUW wont o stand pipe, notifi tified @ 00:00 f	8' and 6" n #2 mud 10 minute 5 SPP-187(lose. Circi ed welder.	pump. s. EMW DIFF-4 plated w	Valve ste 11.0 ppg 00 BHRPI ith pump	m brok) (101 M- 70+ in sub	vers.;Trip i ke off.;Drii psi 10p; 137. TQ-1 @ 300 Gf	lled cement F, og mud weigh 10K;Lost PM.
	PRESE Pick up 1800:, 1863'-);Rotat hydrau ** Sto ** Trip Troubl Tech n Tech a Full cre No Acc	NT OPERATION b BHA, M/U bit, Cut and slip dri 1953'. WOB-1 te 1953'. 2562' lic power to top pped circulating to the shoe. ** eshooting hydra otified @ 20:00 rrived @ 23:30 ews days and ni	motor, sta II line 24 5 RPM-50 (609' @ 1 9 drive, IBG 1 due to wa * ulic system 1 hours. 1 hours.	Rig Repa bilizer and a kwraps.;Rep GPM-500;F I35 FPH) V OP won't op ash out on s m. Welder No	ir monel. Make up pair knife valve o IT test. Held for VOB-35 GPM-80 en, BUW wont o stand pipe, notifi tified @ 00:00 f	8' and 6" n #2 mud 10 minute 5 SPP-187(lose. Circi ed welder.	pump. is. EMW DIFF-4 ulated w , welder	Valve ste 11.0 pp <u>c</u> 00 BHRPI th pump arrived a	m brok (101 4- 70+ in sub nd rep	vers.;Trip i ke off.;Drii psi 10p; 137. TQ-1 @ 300 Gf	lled cement F, og mud weigh 10K;Lost PM.
	PRESE Pick up 1800:, 1863'-);Rotat hydrau ** Sto ** Trip Troubl Tech n Tech a Full cre No Acc DAILY	NT OPERATION b BHA, M/U bit, Cut and slip dri 1953'. WOB-1 te 1953' - 2562' lic power to top pped circulating to the shoe. *: eshooting hydra otified @ 20:00 rrived @ 23:30 ews days and ni cidents No Spill:	motor, sta II line 24 5 RPM-50 (609' @ 1 9 drive, IBG 1 due to wa * ulic system 1 hours. 1 hours.	Rig Repa bilizer and a l wraps.;Rep GPM-500;F (35 FPH) V OP won't op ash out on s m. Welder No Welder An	ir monel, Make up pair knife valve o IT test. Held for VOB-35 GPM-80 en, BUW wont o stand pipe, notifi stand pipe, notifi stified @ 00:00 h rrived @ 02:45 h	8' and 6" n #2 mud 10 minute 5 SPP-1870 lose. Circr ed welder. nours nours.	pump. is. EMW DIFF-4 ulated w , welder	Valve ste 11.0 pp <u>c</u> 00 BHRPI th pump arrived a	m brok (101 4- 70+ in sub nd rep	rers.;Trip ke off.;Dri psi 10p; 137. TQ-3 @ 300 Gi aired stan	lled cement F, og mud weigh 10K;Lost PM.
Nov 27 2019	PRESE Pick up 1800:, 1863'-);Rotat hydrau ** Sto ** Trip Troubl Tech n Tech a Full cre No Acc DAILY	NT OPERATION b BHA, M/U bit, Cut and slip dri 1953'. WOB-1 te 1953' - 2562' lic power to top pped circulating to the shoe. *: eshooting hydra otified @ 20:00 rrived @ 23:30 ews days and ni idents No Spill: JOB COST:	motor, sta II line 24 5 RPM-50 (609' @ 1 9 drive, IBG 1 due to wa * ulic system 1 hours. 1 hours.	Rig Repa bilizer and a swraps.;Rep GPM-500;F (35 FPH) V OP won't op ash out on s m. Welder No Welder An Welder An \$75,269	ir monel, Make up pair knife valve o IT test. Held for VOB-35 GPM-80 en, BUW wont o stand pipe, notifi stand pipe, notifi stified @ 00:00 h rrived @ 02:45 h	8' and 6" n #2 mud 10 minute 5 SPP-1870 lose. Circr ed welder. nours nours.	pump. is. EMW DIFF-4 ulated w , welder	Valve ste 11.0 pp <u>c</u> 00 BHRPI th pump arrived a	m brok (101 4- 70+ in sub nd rep	rers.;Trip ke off.;Dri psi 10p; 137. TQ-3 @ 300 Gi aired stan	lled cement F, og mud weigh 10K;Lost PM.
Nov 27 2019	PRESE Pick up 1800'.; 1863'-);Rotai hydrau ** Trip Troubl Tech n Tech n Tech a Full cre No Acc DAILY TOTAL MD: RIG SU	NT OPERATION D BHA, M/U bit, Cut and slip dri 1953'. WOB-1 te 1953' - 2562' lic power to top pped circulating to the shoe. *: eshooting hydra notified @ 20:00 rrived @ 23:30 ews days and ni cidents No Spill: JOB COST: . WELL COST:	motor, sta Il line 24 5 RPM-50 (609' @ 1 drive, IBG due to wa * hours. hours. hours. hours. S	Rig Repa bilizer and a wraps.;Rep GPM-500;F (35 FPH) V OP won't op ash out on s m. Welder No Welder An \$75,269 \$954,501	ir monel. Make up pair knife valve o IT test. Held for VOB-35 GPM-80 en, BUW wont o stand pipe, notifi tified @ 00:00 h mived @ 02:45 h	8' and 6" n #2 mud 10 minute 5 SPP-1870 lose. Circr ed welder. hours nours.	pump. s. EMW) DIFF-4 ulated w , welder OB COS	Valve ste 11.0 pp <u>c</u> 00 BHRPI th pump arrived a	m brok (101 4- 70+ in sub nd rep	rers.;Trip ke off.;Dri psi 10pp 137. TQ-1 @ 300 Gf aired stan 2,680	lled cement F, og mud weigh IOK;Lost PM. id pipe. **
Nov 27 2019	PRESE Pick up 1800'.; 1863'-);Rotai hydrau ** Sto ** Trip Troubl Tech n Tech n Tech a Full cre No Acc DAILY TOTAL MD: RIG SU PRESE Wash 8bpm; ** Tre cemen	NT OPERATION b BHA, M/U bit, Cut and slip dri 1953'. WOB-1 te 1953'. 2562' lic power to top pped circulating to the shoe. *: eshooting hydra otified @ 20:00 rrived @ 23:30 ews days and ni idents No Spill: JOB COST: WELL COST: 1,943 JPERVISOR: NT OPERATION down landing jo DISM, rig up Pa t lines to 2,000 t @ 14.8ppg the	motor, sta II line 24 5 RPM-50 (609' @ 1 o drive, IBQ due to wa * uilic system hours. hours. hours. hours. hours. S TVD: int and lar r five cem- psi pump en drop to	Rig Repa bilizer and a wraps.;Rep GPM-500;F (35 FPH) V OP won't op ash out on s m. Welder No Welder No Welder An \$75,269 \$954,503 Michael N hd same.;Rie enters and o 20 bbls wat p plug and o	ir monel. Make up pair knife valve o IT test. Held for VOB-35 GPM-80 en, BUW wont o stand pipe, notifi tified @ 00:00 h rrived @ 02:45 h U FOOTAGE: Williamson / Jase g down casing o ceement 13 3/8 s ser with green d displace with 29	8' and 6" n #2 mud 10 minute 5 SPP-187(lose. Circr ed welder. nours nours TOTAL J en Bradley rew and CC urface cas /e, 316bbs Obbis of w	DUMP. s. EMW DIF-4 ulated w , welder OB COS COB COS RT;Circu ing as fo s lead ce ater,bun	Valve ste 11.0 ppg 00 BHRPI th pump arrived a arrived a f: Iate casim liowed ment @ : nped plug	m broł (101 H- 70+ in sub ind rep \$65 g volur 12.9ppi	rers.;Trip re off.;Dri psi 10p; 137. TQ-1 @ 300 Gf aired stan 2,680 PTD: PBTD: ne with ri g followed	Iled cement F/ og mud weigh LOK;Lost PM. id pipe. ** 18,000 g pumps @ i by 75bbls tai
Nov 27 2019	PRESE Pick up 1800'.; 1863' -);Rotai hydrau ** Sto ** Trif Troubl Tech n Tech n Tech a Full cre No Acc DAILY TOTAL MD: RIG SU PRESE Wash & Bopm; ** Tes cemen full ret ** Bl ianding and Ni	NT OPERATION b BHA, M/U bit, Cut and slip dri 1953'. WOB-1 te 1953'. 2562' lic power to top pped circulating to the shoe. *' eshooting hydra otified @ 20:00 rrived @ 23:30 ews days and ni cidents No Spill: JOB COST: WELL COST: . WELL COST:	motor, sta II line 24 5 RPM-50 (609' @ 1 o drive, IB4 o drive, IB4 due to wat * Hours. hours. hours. hours. hours. hours. S: init and lar r five cemp psi pump en drop to cement joi to witness ell head au ;Test Stan	Rig Repa bilizer and u k wraps.;Rep GPM-500;F (35 FPH) V OP won't op ash out on s m. Welder No Welder No Welder Au \$75,269 \$954,501 Michael N md same.;Ria enters and o 20 bbls wat p plug and i b 100bbls o cement ret nd test to 5/ d Pipe from	ir monel. Make up pair knife valve o IT test. Held for VOB-35 GPM-80 en, BUW wont o stand pipe, notifi trified @ 00:00 f mrived @ 02:45 f U FOOTAGE: Williamson / Jase g down casing o cement 13 3/8 s ter with green d displace with 29 f cement back to urns in the cella 000psi (test goo Top Drive back	8' and 6" n #2 mud 10 minute 5 SPP-187(lose. Circi ed welder. nours nours TOTAL J TOTAL J en Bradley rew and CC urface cas ye, 316bb! Obbis of w o surface fi ***;While d) nipple to Pumps,	OB COS RT;Circu ng as fo s lead ce ater,bun oats hele waiting up cactu IBOP ar	Valve ste 11.0 ppg 00 BHRPI th pump arrived a arrived a f: late casin llowed ment @ : pped plug d*** on ceme is quick c	m broł (101 H- 70+ in sub ind rep \$65 g volur 12.9ppi with 5 nt , rig alve. T	rers.;Trip ke off.;Dri psi 10p; 137. TQ-1 @ 300 Gi aired stan 2,680 PTD: PBTD: ne with ri g followec i00psi ove down cer Install Sp est Choke	Iled cement F, og mud weigh LOK;Lost PM. id pipe. ** 18,000 g pumps @ i by 75bbls tai rr (1,040) had nenters, L/D bacer Spools e line and
Nov 27 2019	PRESE Pick up 1800'.; 1863');Rotat hydrau ** Sto ** Trip Troubl Tech n Tech a Full cre No Acc DAILY TOTAL MD: RIG SI PRESE Wash n 8bpm; ** Tes cemen full ret ** Tes cemen full ret *	NT OPERATION b BHA, M/U bit, Cut and slip dri 1953'. WOB-1 te 1953'. 2562' ulic power to top pped circulating to the shoe. *' eshooting hydra otified @ 20:00 rrived @ 23:30 ews days and ni cidents No Spill: JOB COST: WELL COST: WELL COST: NT OPERATION down landing jo PJSM, rig up Pa t lines to 2,000 t @ 14.8ppg th- urns the entire J opint, install w pple Up BOP E.; manifold to 250 6000H for 10 mi ydrill to 250L/3! asing to 1500 p	motor, sta II line 24 5 RPM-50 (609' @ 1 o drive, IBG due to wat aulic system hours. hours. hours. hours. hours. thours. S TVD: S: int and lar r five cem- psi pump en drop to cement joi to witness ell head au Test Stan DL/500H for nutes ead SOUH for 1 si for 30 m	Rig Repa bilizer and n kraps.;Rep GPM-500;F (35 FPH) V OP won't op ash out on s m. Welder No Welder An \$75,269 \$954,501 Michael N hd same.;Rin enters and (20 bbls wat p plug and i b 100bbls o cement ret nd test to 5i d Pipe from for 10 minut h () minutes e ninutes	ir monel. Make up pair knife valve o IT test. Held for VOB-35 GPM-80 en, BUW wont o stand pipe, notifi trified @ 00:00 h rrived @ 02:45 h rrived @ 02:45 h FOOTAGE: Williamson / Jass g down casing o cement 13 3/8 s ter with green dp displace with 29 f cement back to ums in the cella 000psi (test goo Top Drive back tes each. Pipe R each	8' and 6" n #2 mud 10 minute 5 SPP-187 lose. Circl ed welder. ours tours tours. TOTAL J mours tours. TOTAL J en Bradley rew and Cl urface cas re, 316bb! 00bls of w o surface fi to Pumps, ams, VBRs	OB COS OB COS RT;Circu ing as fo s lead ce ater,bun oats hele up cactu IBOP ar , Blind I	Valve ste 11.0 ppg 00 BHRPI th pump arrived a arrived a f: late casin llowed ment @ : nped plug d*** on ceme us quick c d Grey V Rams, HC	m broł (101 4- 70+ in sub ind rep \$65 \$65 g volur 12.9ppg with 5 nt , rig onnect alve. T R and I	rers.;Trip ke off;;Dri psi 10p; 137. TQ-1 @ 300 Gi aired stan 2,680 PTD: PBTD: pBTD: pBTD: pBTD: g followec 00psi ove down cer Install Sp est Choke Manual, K	Iled cement F, og mud weigh LOK;Lost PM. d pipe. ** 18,000 g pumps @ d by 75bbls ta rr (1,040) had menters, L/D bacer Spools : line and ill Lines to
Nov 27 2019	PRESE Pick up 1800:, 1863');Rotat hydrau ** Sto ** Trip Troubl Tech n Tech n Tech a Full cre No Acc DAILY TOTAL MD: RIG SU PRESE Wash ** Tes cemen full ret ** Bl ianding and Ni Choke 250L/S Test H Test C	NT OPERATION b BHA, M/U bit, Cut and slip dri 1953'. WOB-1 te 1953'. 2562' lic power to top pped circulating to the shoe. *' eshooting hydra otified @ 20:00 rrived @ 23:30 ews days and ni cidents No Spill: JOB COST: . WELL COS	TVD: TVD:	Rig Repa bilizer and u wraps.;Rep GPM-500;F (35 FPH) V OP won't op ash out on s m. Welder No Welder No Welder Au \$75,269 \$954,501 Michael N Michael N of same.;Ru enters and of 20 bbls wat p plug and d b 100bbls of cement ret nd test to 51 d Pipe from for 10 minutes en inutes s and R/U D	ir monel. Make up pair knife valve o IT test. Held for VOB-35 GPM-80 en, BUW wont o stand pipe, notifi tified @ 00:00 h rrived @ 02:45 h U FOOTAGE: Williamson / Jas g down casing o cement 13 3/8 s er with green d displace with 29 f cement back to urns in the cella 000psi (test goo Top Drive back tes each. Pipe R	8' and 6" 1 n #2 mud 10 minute 5 SPP-187(lose. Circi ed welder. nours nours tours. TOTAL J en Bradley rew and CC urface cas /e, 316bb! 0bbls of w o surface fi ****;While d) nipple to Pumps, ams, VBRs tall Mouse	obs cos obs cos obs cos exactly a service obs cos obs cos exactly a service obs service ob	Valve ste 11.0 ppg 00 BHRPI th pump arrived a arrived a f: late casin llowed ment @ : ppd plug d*** on ceme is quick c id Grey V kams, HC ok up 2"	m brok (101 H- 70H in sub ind rep \$65 g volur 2.9ppq with S nt , rig alve. T R and I Bleed (rers.;Trip ke off.;Dri psi 10pp 137. TQ-1 @ 300 Gf aired stan 2,680 PTD: PBTD: ne with ri g followec i00psi ove down cer Install Sp est Choke Manual, K	Iled cement F, og mud weigh LOK;Lost PM. d pipe. ** 18,000 g pumps @ i by 75bbls tai rr (1,040) had menters, L/D bacer Spools e line and ill Lines to t and Strap
Nov 27 2019	PRESE Pick up: 1860'.; 1863'-);Rotai hydrau ** Sto ** Trif Troubl Tech n Tech n Tech a Full cre No Acc DAILY TOTAL MD: RIG SU PRESE Wash & Bbpm; ** Tes cemen full ret ** Bl ianding Choke 250L/S Test H Test C **R/D BHA c Motor,	NT OPERATION b BHA, M/U bit, Cut and slip dri 1953'. WOB-1 te 1953'. 2562' lic power to top pped circulating to the shoe. *' eshooting hydra otified @ 20:00 rrived @ 23:30 aws days and ni idents No Spill: JOB COST: WELL COST: . WELL COST: . W COST: . W COST: . W COST: . W COST: . W COST:	TVD: TVD:	Rig Repa bilizer and u wraps.;Rep GPM-500;F (35 FPH) V OP won't op ash out on s m. Welder No Welder No Welder Au \$75,269 \$954,501 Michael N Michael N of same.;Ru enters and of 20 bbls wat p plug and d b 100bbls of cement ret nd test to 51 d Pipe from for 10 minutes en inutes s and R/U D	ir monel. Make up pair knife valve o IT test. Held for VOB-35 GPM-80 en, BUW wont o stand pipe, notifi trified @ 00:00 f mrived @ 02:45 f u FOOTAGE: Williamson / Jase g down casing o cement 13 3/8 s ter with green dh displace with 29 f cement back to urns in the cella 000psi (test goo Top Drive back tes each. Pipe R each OP Elevators, Ins n Test Equipmen	8' and 6" 1 n #2 mud 10 minute 5 SPP-187(lose. Circi ed welder. nours nours tours. TOTAL J en Bradley rew and CC urface cas /e, 316bb! 0bbls of w o surface fi ****;While d) nipple to Pumps, ams, VBRs tall Mouse	obs cos obs cos obs cos examples of the second obs cos example	Valve ste 11.0 ppg 00 BHRPI th pump arrived a arrived a f: late casin llowed ment @ : ped plug d*** on ceme is quick c id Grey V kams, HC ok up 2" hing;Hand	m brok (101 H- 70H in sub ind rep \$65 g volur 2.9ppg with 5 nt , rig alve. T R and I Bleed (dle BH/	rers.;Trip ke off.;Dri psi 10pp 137. TQ-1 @ 300 Gf aired stan 2,680 PTD: PBTD: ne with ri g followec i00psi ove down cer Install Sp est Choke Manual, K	Iled cement F, og mud weigh LOK;Lost PM. d pipe. ** 18,000 g pumps @ i by 75bbls tai r (1,040) hac menters, L/D bacer Spools e line and ill Lines to t and Strap

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Nov 26 2019	MD: RIG SU	1,943 PERVISOR:	TVD:	1,943 Michael Wi	FOOTAGE: illiamson / Jase		MW:	9.6	LB	PTD: PBTD:	18,000
		VT OPERATION	IS:		3 3/8 casing @						
	Rotate	F/1771' T/1943 v ROP due to m	3 (172' @ 2	8.66 FPH) 3	5-45K WOB, 85	0 GPM, 20					
	out.	ulate until hole		•	•						
	to surfa Shock S Cactus **PJSM Tools;N	issues while ba ace until shaker Sub, X-Over, ar Landing Ring. I with Casing C Jake up Shoe T I landing joint a	rs clean up; nd two 17.2 frew and Rig frack, threa	Pull out of th 5" Stabilizer: g Crew. Gat d locking floa	he hole F/ 1,94 s;Nipple Down her casing runr at shoe and flo	3' T/BHA (I Conductor ning tools o	No issue Riser, C on rig flo	es, hole Cut conc por.**;R	slick);La luctor at tig Up CR	y down Bl 56" BGL a T and Ca	HA: Bit, Motor and weld on sing Running
	DAILY	JOB COST:		\$59,239		TOTAL JO	DB COST	г:	\$39	6,460	
	TOTAL	WELL COST:		\$698,282							
Nov 25 2019	MD:	1,771	TVD:	1,771 Michael 11/	FOOTAGE:	•	MW:	8.8	LB	PTD:	18,000
	PRESE	PERVISOR: NT OPERATION		Drilling ah	illiamson / Jase ead at 1771'	·				PBTD:	
	HWDP; 2250 S	F/188' T/463' (Make up 171/4 PP, 8K Torque, ' T/1771 (713'	stabs and 100+ 145	shock sub.;1 Bit RPM;Flov	TIH to 463';Rot vline packed of	ate F/463' f. Remove	T/1058' both si	(595' @ des of f	132 FP lowline to	H) 15K W	OB, 850 GPM
	DAILY	JOB COST:		\$61,906		TOTAL JO	DB COS	Г:	\$33	7,221	
	TOTAL	WELL COST:		\$639,043							
Nov 24 2019											
	MD:	188	TVD:	188	FOOTAGE:	68	MW:	8.4	LB	PTD:	18,000
		188 IPERVISOR:	TVD:		FOOTAGE: illiamson / Jase		MW:	8.4	LB	PTD: PBTD:	18,000
	RIG SU PRESE	PERVISOR:	IS:	Michael W Drilling ah	illiamson / Jase ead in 17.5" Su	en Bradley urface Hole	Section	l I		PBTD:	
	RIG SU PRESEN Nipple water, 1 stand and ins bottom inspect Riser a weld of Conduc	PERVISOR:	IS: nifold exten nstall mouse ductor riser ptor. Repla) up cellar. ser Adaptor ing the fill u 'elder cut ar Welded con	Michael W Drilling ahu Ision, remove Hole; BHA h Ieaking at b Ice gasket ar Leak was to r with Cactus Ip line. Risen Ind removed ductor riser t	illiamson / Jase ead in 17.5" Su e flowline from andling: Pick u oottom seal whe nd reinstall com o severe to cor s wellhead tech r Adaptor still le Riser Adaptor fi to conductor pi	en Bradley urface Hole BOP stack up and mak en pumps t ductor.;Atto ntinue drillin . No visual eaking. De from Condu pe.;Nipple	Section and ins te up 17 urned c empt to ng. Set I proble cision n ictor, Ro Up Flow	tall on (.5" bit, on. Set pump a back Bł ms with nade to emoved vline, In	conducto motor, 1 back BH and cond IA, lift Co O-Ring. remove Cactus L	PBTD: r riser. Fi NMDC, 1 IA, Remov luctor rise onductor f Reinstall Conductor anding Ri	II pits with jt 8" DC and e conductor r leaking fron Riser and Conductor Riser and ng from
	RIG SU PRESEN Nipple water, 1 stand and ins bottom inspect Riser a weld on Conduc F/117	PERVISOR: NT OPERATION up flowline mai Set our BHA, Ir d of HWDP;Con spect Riser Adap seal and filling O-Ring and Ri nd test seal usi n conductor.;W ctor in Celler.	IS: nifold exten nstall mouse ductor riser ptor. Repla) up cellar. ser Adaptor ing the fill u 'elder cut ar Welded con	Michael W Drilling ahu Ision, remove Hole; BHA h Ieaking at b Ice gasket ar Leak was to r with Cactus Ip line. Risen Ind removed ductor riser t	illiamson / Jase ead in 17.5" Su e flowline from andling: Pick u oottom seal whe nd reinstall com o severe to cor s wellhead tech r Adaptor still le Riser Adaptor fi to conductor pi	en Bradley urface Hole BOP stack up and mak en pumps t ductor.;Atto ntinue drillin . No visual eaking. De from Condu pe.;Nipple	Section and ins urned c empt to ng. Set I problec cision n ictor, Re Up Flow 88 fpl	tall on (?.5" bit, pump a back Bł ms with hade to emoved vline, In	conducto motor, 1 back BH and cond IA, lift Co O-Ring. remove Cactus L stall Mou	PBTD: r riser. Fi NMDC, 1 IA, Remov luctor rise onductor f Reinstall Conductor anding Ri	Il pits with jt 8" DC and e conductor r leaking from Riser and Conductor Riser and ng from
	RIG SU PRESEI Nipple water, 1 stand and ins bottom inspect Riser au weld or Conduc F/117' DAILY.	PERVISOR: NT OPERATION up flowline mai Set our BHA, Ir d of HWDP;Con spect Riser Adap seal and filling o-Ring and Ri nd test seal usi n conductor.;W ttor in Celler. V T/188' Rpm 40	IS: nifold exten nstall mouse ductor riser ptor. Repla) up cellar. ser Adaptor ing the fill u 'elder cut ar Welded con	Michael W Drilling ahu Ision, remove Hole; BHA h Ieaking at b Ice gasket ar Leak was to with Cactus p line. Risen nd removed ductor riser to 0/ PSI 610/	illiamson / Jase ead in 17.5" Su e flowline from andling: Pick u oottom seal whe nd reinstall com o severe to cor s wellhead tech r Adaptor still le Riser Adaptor fi to conductor pi	en Bradley Inface Hole BOP stack Ip and mak en pumps t ductor.;Att thinue drilli No visual eaking. De rom Condu pe.;Nipple DOO/ ROP @	Section and ins urned c empt to ng. Set I problec cision n ictor, Re Up Flow 88 fpl	tall on (?.5" bit, pump a back Bł ms with hade to emoved vline, In	conducto motor, 1 back BH and cond IA, lift Co O-Ring. remove Cactus L stall Mou	PBTD: r riser. Fi NMDC, 1 iA, Remov Juctor rise onductor for Reinstall Conductor anding Ri isehole;Sp	Il pits with jt 8" DC and e conductor r leaking from Riser and Conductor Riser and ng from
	RIG SU PRESE/ Nipple water, 1 stand and ins bottom inspect Riser al weld ou Conduc F/117' DAILY. TOTAL	PERVISOR: NT OPERATION up flowline mai Set our BHA, Ir of HWDP;Con spect Riser Adaj seal and filling 0-Ring and Ri nd test seal usi n conductor.;W tor in Celler. V T/188' Rpm 40 JOB COST: WELL COST:	IS: nifold exten nstall mouse ductor riser ptor. Repla) up cellar. ser Adaptor ing the fill u 'elder cut ar Welded con	Michael W Drilling ahu Ision, remove ehole; BHA h leaking at b ice gasket ar Leak was to with Cactus p line. Riser ductor riser t 0/ PSI 610/ \$36,066 \$577,137	illiamson / Jase ead in 17.5" Su e flowline from andling: Pick u oottom seal wh nd reinstall com o severe to cor swellhead tech Riser Adaptor still le Riser Adaptor f to conductor pi diff-200/ TQ 20	en Bradley urface Hole BOP stack up and mak en pumps t ductor.;Att ntinue drillia . No visual eaking. De eaking. De eaking. De eaking. De eaking. De condu pe.;Nipple DOO/ ROP @ TOTAL JC	Section and ins urned c empt to ng. Set I problec cision n ictor, Re Up Flow 88 fpl	tall on (?.5" bit, pump a back Bł ms with hade to emoved vline, In	conducto motor, 1 back BH and cond IA, lift Co O-Ring. remove Cactus L stall Mou	PBTD: r riser. Fi NMDC, 1 IA, Remov luctor rise onductor f Reinstall Conductor anding R isehole;Sp 5,315 PTD:	Il pits with jt 8" DC and e conductor r leaking from Riser and Conductor Riser and ng from
	RIG SU PRESE/ Nipple water, 1 stand and ins bottom inspect Riser al weld ou Conduc F/117' DAILY. TOTAL	PERVISOR: VT OPERATION up flowline main Set our BHA, Iri of HWDP;Con spect Riser Adap seal and filling O-Ring and Ris nd test seal usi n conductor.;W tor in Celler. V T/188' Rpm 40 JOB COST: WELL COST:	IS: nifold exten nstall mouse ductor riser ptor. Repla o up cellar. ser Adaptor ing the fill u relder cut ar Welded com O/ WOB-5-1	Michael W Drilling ahu Ision, remove ehole; BHA h leaking at b ice gasket ar Leak was to with Cactus p line. Riser ductor riser t 0/ PSI 610/ \$36,066 \$577,137	illiamson / Jase ead in 17.5" Su e flowline from andling: Pick L oottom seal wh nd reinstall com o severe to cor s wellhead tech r Adaptor still le Riser Adaptor f to conductor pi diff-200/ TQ 20	en Bradley urface Hole BOP stack up and mak en pumps t ductor.;Att ntinue drillia . No visual eaking. De eaking. De eaking. De eaking. De eaking. De condu pe.;Nipple DOO/ ROP @ TOTAL JC	Section and ins urned c empt to ng. Set I problec cision n ictor, Re Up Flow 88 fpl	tall on (?.5" bit, pump a back Bł ms with hade to emoved vline, In	conducto motor, 1 back BH and cond IA, lift Co O-Ring. remove Cactus L stall Mou	PBTD: r riser. Fi NMDC, 1 IA, Remov luctor rise onductor f Reinstall Conductor anding R isehole;Sp 5,315	Il pits with jt 8" DC and e conductor r leaking from Riser and Conductor Riser and ng from Jud well. Dril
	RIG SU PRESEF Nipple water, 1 stand and ins bottom inspect Riser al weld on Conduc F/117 ⁱ DAILY TOTAL	PERVISOR: NT OPERATION up flowline mai Set our BHA, Ir of HWDP;Con spect Riser Adaj seal and filling 0-Ring and Ri nd test seal usi n conductor.;W tor in Celler. V T/188' Rpm 40 JOB COST: WELL COST:	IS: nifold exten nstall mouse ductor riser ptor. Repla to up cellar. ser Adaptor ing the fill u relder cut ar Nelded com D/ WOB-5-1	Michael W Drilling ahu Ision, remove Hehole; BHA h- leaking at b ice gasket ar Leak was to with Cactus Ip line. Risei ductor riser t 0/ PSI 610/ \$36,066 \$577,137 120 Michael W	illiamson / Jase ead in 17.5" Su e flowline from andling: Pick u oottom seal wh nd reinstall com o severe to cor swellhead tech Riser Adaptor still le Riser Adaptor f to conductor pi diff-200/ TQ 20	en Bradley urface Hole BOP stack up and mak en pumps t ductor.;Atto ntinue drilliu . No visual eaking. De eaking. De eaking. Condu pe.;Nipple DOO/ ROP @ TOTAL JO	Section and ins urned c empt to ng. Set I problec cision n ictor, Re Up Flow 88 fpl	tall on (?.5" bit, pump a back Bł ms with hade to emoved vline, In	conducto motor, 1 back BH and cond IA, lift Co O-Ring. remove Cactus L stall Mou	PBTD: r riser. Fi NMDC, 1 IA, Remov luctor rise onductor f Reinstall Conductor anding R isehole;Sp 5,315 PTD:	Il pits with jt 8" DC and e conductor r leaking fron Riser and Conductor Riser and ng from nud well. Dril
	RIG SU PRESEI Nipple water, 1 stand and ins bottom inspect Riser al weld ou Conduc F/117 ⁺¹ DAILY TOTAL MD: RIG SU PRESEI Walk ri	PERVISOR: NT OPERATION up flowline mai Set our BHA, Ir of HWDP;Con spect Riser Adap seal and filling 0-Ring and Ri n conductor.;W tor in Celler. V T/188' Rpm 40 JOB COST: WELL COST: 120 IPERVISOR:	IS: nifold exten nstall mouse ductor riser ptor. Repla to up cellar. ser Adaptor ing the fill u relder cut ar Welded com D/ WOB-5-1 TVD: TVD:	Michael W Drilling ahu Ision, remove ehole; BHA h- leaking at b ice gasket ar Leak was to with Cactus p line. Risei ductor riser t 0/ PSI 610/ \$36,066 \$577,137 120 Michael W Rigging up Fed Com 12H	illiamson / Jase ead in 17.5" Su e flowline from andling: Pick u oottom seal whe nd reinstall com o severe to cor wellhead tech Riser Adaptor still le Riser Adaptor still le Riser Adaptor fo to conductor pi diff-200/ TQ 20 FOOTAGE: illiamson / Jase o and preparing 1, Rig up, conti	en Bradley urface Hole BOP stack up and make en pumps t ductor.;Atto ntinue drillin . No visual eaking. De eaking. De eaking. De eaking. De eaking. De eaking. De eaking. De condu pe.;Nipple DOO/ ROP @ TOTAL JC	Section and ins e up 17 urmed c empt to ng. Set l proble cision n citor, R Up Flow 88 fpt DB COS	tall on ('.5" bit, on. Set back Bł ms with nade to emoved vline, In T:	conducto motor, 1 back BH and cond IA, lift Co O-Ring. remove Cactus L stall Mou \$27	PBTD: r riser. Fri NMDC, 1 IA, Remov luctor rise onductor f Reinstall Conductor anding Risehole;Sp 5,315 9TD: PBTD:	Il pits with jt 8" DC and e conductor r leaking from Riser and Conductor Riser and ng from bud well. Dril 18,000
	RIG SU PRESE Nipple water, 1 stand and ins bottom inspect Riser al weld on Conduc F/117 ⁺¹ DAILY TOTAL MD: RIG SU PRESE Walk ri weld C	PERVISOR: NT OPERATION up flowline mai Set our BHA, Ir of HWDP;Con spect Riser Adap seal and filling 0-Ring and Ri n conductor.;W tor in Celler. V T/188' Rpm 40 JOB COST: WELL COST: UPERVISOR: NT OPERATION g from Igloo 19	IS: nifold exten nstall mouse ductor riser ptor. Repla to up cellar. ser Adaptor ing the fill u relder cut ar Welded com D/ WOB-5-1 TVD: TVD:	Michael W Drilling ahu Ision, remove ehole; BHA h- leaking at b ice gasket ar Leak was to with Cactus p line. Risei ductor riser t 0/ PSI 610/ \$36,066 \$577,137 120 Michael W Rigging up Fed Com 12H	illiamson / Jase ead in 17.5" Su e flowline from andling: Pick u oottom seal whe nd reinstall com o severe to cor wellhead tech Riser Adaptor still le Riser Adaptor still le Riser Adaptor fo to conductor pi diff-200/ TQ 20 FOOTAGE: illiamson / Jase o and preparing 1, Rig up, conti	en Bradley urface Hole BOP stack up and make en pumps t ductor.;Atto ntinue drillin . No visual eaking. De eaking. De eaking. De eaking. De eaking. De eaking. De eaking. De condu pe.;Nipple DOO/ ROP @ TOTAL JC	Section and ins e up 17 urned c empt to ng. Set I proble cision n ictor, Re Up Flow 88 fph DB COS	tall on of '.5" bit, on. Set back Bł ms with nade to emoved vline, In T: tanks, c : well sp	conducto motor, 1 back BH and cond IA, lift Co O-Ring. remove Cactus L stall Mou \$27	PBTD: r riser. Fri NMDC, 1 IA, Remov luctor rise onductor f Reinstall Conductor anding Risehole;Sp 5,315 9TD: PBTD:	Il pits with jt 8" DC and e conductor r leaking from Riser and Conductor Riser and ng from bud well. Dril 18,000
	RIG SU PRESEF Nipple water, 1 stand and ins bottom inspect Riser al weld on Conduc F/117' DAILY TOTAL MD: RIG SU PRESEF Walk ri weld C DAILY	PERVISOR: NT OPERATION Set our BHA, Ir of HWDP;Con spect Riser Adap seal and filling O-Ring and Ri n conductor.;W tor in Celler. V T/188' Rpm 40 JOB COST: WELL COST: UPERVISOR: NT OPERATION g from Igloo 19 actus Landing F	IS: nifold exten nstall mouse ductor riser ptor. Repla to up cellar. ser Adaptor ing the fill u relder cut ar Welded com D/ WOB-5-1 TVD: TVD:	Michael W Drilling ahu Ision, remove Hehole; BHA h- Ieaking at b Ice gasket ar Leak was to with Cactus Ip line. Riser Jo PSI 610/ \$36,066 \$577,137 120 Michael W Rigging up Fed Com 121- up Riser Pip	illiamson / Jase ead in 17.5" Su e flowline from andling: Pick u oottom seal whe nd reinstall com o severe to cor wellhead tech Riser Adaptor still le Riser Adaptor still le Riser Adaptor fo to conductor pi diff-200/ TQ 20 FOOTAGE: illiamson / Jase o and preparing 1, Rig up, conti	en Bradley urface Hole BOP stack up and make en pumps t ductor.;Atto notinue drilliu . No visual eaking. De eaking. De eaking. De eaking. De output to ondu pe.;Nipple DOO/ ROP @ TOTAL JC	Section and ins e up 17 urned c empt to ng. Set I proble cision n ictor, Re Up Flow 88 fph DB COS	tall on of '.5" bit, on. Set back Bł ms with nade to emoved vline, In T: tanks, c : well sp	conducto motor, 1 back BH and cond IA, lift Co O-Ring. remove Cactus L stall Mou \$27	PBTD: r riser. Fi NMDC, 1 IA, Remov luctor rise onductor F Reinstall Conductor anding R isehole;Sp 5,315 PTD: PBTD: pBTD:	Il pits with jt 8" DC and e conductor r leaking from Riser and Conductor Riser and ng from bud well. Dril 18,000
Nov 23 2019	RIG SU PRESEF Nipple water, 1 stand and ins bottom inspect Riser al weld on Conduc F/117' DAILY TOTAL MD: RIG SU PRESEF Walk ri weld C DAILY	PERVISOR: NT OPERATION Set our BHA, Ir of HWDP;Con spect Riser Adap seal and filling O-Ring and Ri n conductor.;W tor in Celler. V T/188' Rpm 40 JOB COST: WELL COST: 120 IPERVISOR: NT OPERATION g from Igloo 19 actus Landing f JOB COST:	IS: nifold exten nstall mouse ductor riser ptor. Repla to up cellar. ser Adaptor ing the fill u relder cut ar Welded com D/ WOB-5-1 TVD: TVD:	Michael W Drilling ahu Ision, remove Hehole; BHA h- Ieaking at b Ice gasket ar Leak was to with Cactus Ip line. Rise Di line. Rise Ip line. Rise Ip line. Rise Jo PSI 610/ \$36,066 \$577,137 120 Michael W Rigging up Fed Com 12h- up Riser Pip \$239,249	illiamson / Jase ead in 17.5" Su e flowline from andling: Pick u oottom seal whe nd reinstall com o severe to cor wellhead tech Riser Adaptor still le Riser Adaptor still le Riser Adaptor fo to conductor pi diff-200/ TQ 20 FOOTAGE: illiamson / Jase o and preparing 1, Rig up, conti	en Bradley urface Hole BOP stack up and make en pumps t ductor.;Atto notinue drilliu . No visual eaking. De eaking. De eaking. De eaking. De output to ondu pe.;Nipple DOO/ ROP @ TOTAL JC	Section and ins e up 17 urned c empt to ng. Set I proble cision n ictor, Re Up Flow 88 fph DB COS	tall on of '.5" bit, on. Set back Bł ms with nade to emoved vline, In T: tanks, c : well sp	conducto motor, 1 back BH and cond IA, lift Co O-Ring. remove Cactus L stall Mou \$27	PBTD: r riser. Fi NMDC, 1 IA, Removiuctor fi Reinstall Conductor anding Ri Isehole;Sp 5,315 PTD: PBTD: PBTD: uctor at 56 9,249	Il pits with jt 8" DC and e conductor r leaking from Niser and Riser and ng from bud well. Dril 18,000
Nov 23 2019 Nov 22 2019	RIG SU PRESE/ Nipple water, 1 stand and ins bottom inspect Riser al weld ou Conduc F/117' DAILY. TOTAL MD: RIG SU PRESE/ Walk ri weld C DAILY. TOTAL	PERVISOR: NT OPERATION up flowline mai Set our BHA, In of HWDP;Con spect Riser Adap seal and filling O-Ring and Ris nd test seal usi n conductor.;W ttor in Celler. V T/188' Rpm 40 JOB COST: WELL COST: 120 IPERVISOR: NT OPERATION g from Igloo 19 actus Landing F JOB COST: WELL COST:	IS: nifold exten nstall mouse ductor riser ptor. Repla o up cellar. ser Adaptor ing the fill u relder cut ar Welded con O/ WOB-5-1 TVD: IS: 9-24 State F Ring. Make	Michael W Drilling ahu Ision, remove ehole; BHA h leaking at b ice gasket ar Leak was to with Cactus p line. Risen ductor riser t 0/ PSI 610/ \$36,066 \$577,137 120 Michael W Rigging up Fed Com 12H up Riser Pip \$239,249 \$541,071	illiamson / Jase ead in 17.5" Su e flowline from andling: Pick u bottom seal whe nd reinstall com o severe to cor s wellhead tech r Adaptor still le Riser Adaptor fi to conductor pi diff-200/ TQ 20 FOOTAGE: illiamson / Jase o and preparing 4, Rig up, conti be. Modify flow	en Bradley urface Hole BOP stack up and mak en pumps t ductor.;Atta ntinue drilliu . No visual aaking. De from Condu pe.;Nipple DOU/ ROP @ TOTAL JC en Bradley to spud nue cleanin dine manifo	Section and ins e up 17 urned c empt to ng. Set I proble cision n ictor, Re Up Flow 88 fph DB COS	tall on of '.5" bit, on. Set back Bł ms with nade to emoved vline, In T: tanks, c : well sp	conducto motor, 1 back BH and cond IA, lift Co O-Ring. remove Cactus L stall Mou \$27	PBTD: r riser. Fi NMDC, 1 IA, Remov luctor rise onductor F Reinstall Conductor anding R isehole;Sp 5,315 PTD: PBTD: pBTD:	Il pits with jt 8" DC and e conductor r leaking from Riser and Conductor Riser and ng from bud well. Drill 18,000
Nov 23 2019	RIG SU PRESEI Nipple water, 1 stand and ins bottom inspect Riser al weld on Conduc F/117 ⁺¹ DAILY. TOTAL MD: RIG SU PRESEI Walk ri weld C DAILY. TOTAL	PERVISOR: VT OPERATION up flowline mai Set our BHA, Ir of HWDP;Con spect Riser Adaj seal and filling 0-Ring and Ri nconductor.;W tor in Celler. V T/188' Rpm 40 JOB COST: WELL COST: WELL COST: VT OPERATION g from Igloo 19 actus Landing F JOB COST: WELL COST: WELL COST: WELL COST: WELL COST:	IS: nifold exten nstall mouse ductor riser ptor. Repla o up cellar. ser Adaptor ing the fill u relder cut ar Welded con O/ WOB-5-1 TVD: IS: 9-24 State F Ring. Make	Michael W Drilling ahu Ision, remove ehole; BHA h leaking at b ice gasket ar Leak was to with Cactus p line. Risen ductor riser t 0/ PSI 610/ \$36,066 \$577,137 120 Michael W Rigging up Fed Com 12H up Riser Pip \$239,249 \$541,071	illiamson / Jase ead in 17.5" Su e flowline from andling: Pick u bottom seal whe nd reinstall com o severe to cor s wellhead tech r Adaptor still le Riser Adaptor fi to conductor pi diff-200/ TQ 20 FOOTAGE: illiamson / Jase o and preparing 4, Rig up, conti be. Modify flow	en Bradley urface Hole BOP stack up and mak en pumps t ductor.;Atta ntinue drilliu . No visual aaking. De from Condu pe.;Nipple DOU/ ROP @ TOTAL JC en Bradley to spud nue cleanin dine manifo	Section and ins e up 17 urmed c empt to ng. Set l proble cision n ictor, R Up Flow 88 fpt DB COS	tall on ('.5" bit, on. Set back Bł ms with nade to emoved vline, In T: T:	conducto motor, 1 back BH and cond IA, lift Co O-Ring. remove Cactus L stall Mou \$27	PBTD: r riser. Fi NMDC, 1 IA, Removiuctor R Reinstall Conductor anding Ri ssehole;Sp 5,315 PTD: PBTD: uctor at 56 9,249 PTD:	Il pits with jt 8" DC and e conductor r leaking fron liser and Conductor Riser and ng from bud well. Dril 18,000

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