	UNITED STATES DEPARTMENT OF THE IN		OMB N	APPROVED 10. 1004-0137 anuary 31, 2018
A1111	BUREAU OF LAND MÁNAG		5. Lease Serial No. NMNM112273	
Do not use t	Y NOTICES AND REPOR his form for proposals to d rell. Use form 3160-3 (APD)	Irill or to re-enter an	6. If Indian, Allottee	or Tribe Name
	I TRIPLICATE - Other instru		7. If Unit or CA/Agre	eement, Name and/or N
1. Type of Well			8. Well Name and No.	··· · ···
🗖 Oil Well 🛛 Gas Well 🔲 C			COLLINSOSCOF 9. API Well No.	PY FEDERAL 1
2. Name of Operator OWL SWD OPERATING LL	C E-Mail: mthiel@owli		30-015-33758-0	
3a. Address 8214 WESTCHESTER DRIV DALLAS, TX 75255		3b. Phone No. (include area code) Ph: 214-292-2011	10. Field and Pool or BURTON FLAT	
4. Location of Well (Footage, Sec.,	T., R., M., or Survey Description)		11. County or Parish,	State
Sec 7 T20S R30E Lot 4 109	5FSL 430FWL		EDDY COUNT	Y, NM
12. CHECK THE /	APPROPRIATE BOX(ES) 7	IO INDICATE NATURE OI	F NOTICE, REPORT, OR OT	HER DATA
TYPE OF SUBMISSION		TYPE OF	ACTION	
	Acidize	Deepen	Production (Start/Resume)	□ Water Shut-O
Notice of Intent	Alter Casing	Hydraulic Fracturing		Well Integrity
🛛 Subsequent Report	Casing Repair	New Construction	Recomplete	Other
Final Abandonment Notice	Change Plans	Plug and Abandon	Temporarily Abandon	
	Convert to Injection	Plug Back	Water Disposal	
Well Plugged back to 5175', 3752' - 5140', 4 spf, 0.42", 1	920 holes and Acidized w/23	38 bbls 15% HCl. Stop Bate Test Reports and V	Markovar Summary	
3752' - 5140' 4 sof 0 42", 1	920 holes and Acidized w/23	38 bbls 15% HCl. Step Rate Test Reports and IVED	Workover Summary	
3752' - 5140', 4 spf, 0.42", 1 See attached for Detailed C	920 holes and Acidized w/23 ement, Perforations, Acid & RECE	Step Rate Test Reports and Strep Rate Test Reports and Strep Rate Test Reports and Strep Rate Reports and Strep Rate Rate Rate Rate Rate Rate Rate Rate	Workover Summary Bad Field Offi MD Artesia	ice
3752' - 5140', 4 spf, 0.42", 1 See attached for Detailed Co & WB Diagrams. Gc //- 8 -) 8 Accepted for record - NM 14. I hereby certify that the foregoing	920 holes and Acidized w/23 ement, Perforations, Acid & RECE NOV 0 DISTRICT II-AI g is true and correct. Electronic Submission #4 For OWL SWD	6 2018	bad Field Offi MD Artesia	ice
3752' - 5140', 4 spf, 0.42", 1 See attached for Detailed C & WB Diagrams. Gc //- 8 - / 8 Accepted for record - NM 14. I hereby certify that the foregoing	920 holes and Acidized w/2 ement, Perforations, Acid & RECE NOV 0 DISTRICT II-AI g is true and correct. Electronic Submission #4 For OWL SWD ommitted to AFMSS for proce	Step Rate Test Reports and IVED 6 2018 RTESIA O.C.D. 40306 verified by the BLM Wel OPERATING LLC, sent to the issing by PRISCILLA PEREZ of	bad Field Offi MD Artesia	
3752' - 5140', 4 spf, 0.42", 1 See attached for Detailed Co & WB Diagrams. GC //- 8) 8 Accepted for record - NM Accepted for record - NM 14. I hereby certify that the foregoing Co Name (Printed/Typed) MATT T	920 holes and Acidized w/2 ement, Perforations, Acid & RECE NOV 0 DISTRICT II-AI g is true and correct. Electronic Submission #4 For OWL SWD ommitted to AFMSS for proce	Step Rate Test Reports and IVED 6 2018 RTESIA O.C.D. 40306 verified by the BLM Wel OPERATING LLC, sent to the issing by PRISCILLA PEREZ of	bad Field Offi MD Artesia	ice
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Collinsoscopy Federal #1

Acidizing Summary:

Acidize Well: Pump 238 bbl acid @ 12 bbl/min 2280 psi, Pump Gel Water 50 bbl @ 12 bbl/min 2275 psi, Pump 238 bbl acid @ 12 bbl/min 2282 psi, Pump Gel water 50bbl @ 12 bbl/min 2278psi, Pump acid 238 bbl @ 12 bbl/min 2270 psi, Pump Gel Water 50 bbl @ 12 bbl/min 2280 psi, Pump Acid 238 bbl @ 2 bbl/min 2276 psi.

Pump 500 bbl flush @ 12 bbl/min Startup 1645 psi End 1915 psi, ISIP 743 psi, 5min 741 psi, 10min 737 psi

5-Mi	nute Recorde	d Wellhead I	Pressures fo	r Each SRT	Pump Rate								
Rote (hbl/min)	bbl/min)												
Rate (bbl/min)	0	5	10	15	20	25	30						
0.5	716	713	712	711	711	710	709						
0.75	713	712	712	711	709	708	706						
1.11	715	713	712	713	713	712	713						
2.22	745	752	755	757	760	761	763						
3.33	820	824	826	828	839	836	839						
4.44	919	922	924	929	934	930	936						
5.56	1045	1036	1046	1046	1015	1004	997						

Step rate test results.

COLLINSOSCOPY FED SWD #1 Perforations Shot

Interval	Top Dept	Btm Dep	Net Pay
1	5,136'	5,140	4'
2	5,116 [.]	5,126'	10'
3	5,088'	5,093'	5'
4	5,066'	5,076'	10'
5	5,040	5,050'	10'
6	5,016	5,026'	10'
7	4,998'	5,008'	10'
8	4,986'	4,992'	6'
9	4,962'	4,972'	10'
10	4,942'	4,948'	6'
11	4,900	4,920'	20'
12	4,888'	4,892'	4'
13	4,880'	4,886'	6'
14	4,872	4,876'	4'
15	4,860	4,870'	10'
16	4,836'	4,856	20'
17	4,830	4,830	8'
18	4,812	4,814	2'
19	4,012	4,798	10'
	4,788 ⁻ 4,775 ⁻	4,780	5'
20		4,688'	10'
	4,678'		8'
22	4,638'	4,646	
23	4,604	4,612	8'
24	4,590	4,598	8'
25	4,544'	4,564	20'
26	4,490'	4,510	20'
27	4,452'	4,472'	20'
28	4,410'	4,430'	20'
29	4,390'	4,398'	8'
30	4,354	4,364'	10'
31	4,318'	4,328'	10'
32	4,280'	4,300'	20'
33	4,243'	4,247'	4
34	4,222'	4,232'	10'
35	4,204'	4,214'	10'
36	4,168	4,172	4'
37	4,102'	4,116'	14'
38	4,088'	4,098'	10'
39	4,063'	4,068'	5'
40	4,024	4,034'	10'
41	4,005'	4,008'	3'
42	3,990'	4,000'	10'
43	3,956	3,960'	. 4'
44	3,936'	3,944'	8'
45	3,920	3,924'	4'
46	3,888	3,892'	4'
• 47	3,860'	3,870'	10'
48	3,836'	3,846'	10'
49	3,818'	3,826'	8'
50	3,768'	3,788	20'
51	3,752	3,762	10'
	OTAL N		
1		LI PAT	- 480'

TOTAL PERFS (4 SPF)- 1,920

j stale Settar

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Field Ticket

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Can. Say PLUGBACK Name there: NIDLAND No Type OIL Name there: COLLINSOCOPY FED 00 #2 Intertransmitter Can. Type Outcome Ployder Description SK S 2000 S 13,000 IS T,000,000 Comment, Class C SK S 2000 S 4,690 IS T,000,000 Town the target Ployder Intertransmitter S 1,400 IS S 1,300,001 S 7,000 S 7,000,000 IS S 7,200 IS S 4,200 IS S 2,2100,0000 IS S 7,200 IS S 2,2100,0000 IS S 2,2100,000 IS S 2,2100,000 IS S 2,2100,000 IS S 2,2100,000 IS S 2,2000 IS S 100,00 IS S 2,200 IS S 300,00 IS S 3,200 IS S 3,200 IS S 3,200 IS S 3,200 IS S 3,200,00 IS S 3,200,00 IS S 3,200,00 IS S 3,200,00 IS <	n	OWL SWD	Pump TRK No. :			33666		P1721 - Phone 432.687,1994 - P.O. Box 10451 Midland, Texas 797 Operator TRK Ne., 96691							
Instruction MIQLAND Instruction PLUGBACK Note: COLLINDSCOPY FED 001 #2 Instrume Colling Colli			Tichet No. ;		17	21-46266A		+	Buth 7 RK No.	1	37728				
Internet Name INDLAND met name OIL COLLINSOSCOPTED 01 #2 Pet scatter Carry Control Downet Control Downet Control Contro Contr		· · · · · · · · · · · · · · · · · · ·								[
Name COLLINSOSCOPY FED 001 #2 And come Composition	+							•							
Device Low Descenter Ginsh Cernent, Class C SK \$ 20.00 \$ 13.0000 \$ 1.000.00 Meavy mini \$ 20.00 \$ 4.5500 \$ 1.300.00 Blending & Mixing Service Charge sk \$ 1.400 \$ 0.9100 \$ 7.000 Depth Charge; 5001-7000' 44hrs \$ 3.240.00 \$ 2.77625 \$ 807.50 Depth Charge; 5001-7000' 44hrs \$ 3.240.00 \$ 2.77625 \$ 807.50 Environmental Surcharge Jobi \$ 000.00 \$ 2.77625 \$ 807.50 Environmental Surcharge Jobi \$ 000.00 \$ 2.27625 \$ 2.77625 \$ 3.240.00 DOT or Overweight Penit Charge Jobi \$ 000.00 \$ 2.27500 \$ 3.240.00 Equipment Operator, first 8 hrs on loc. ea \$ 5.000 \$ 3.225.00 \$ 3.240.00 Center Densionmeter, with chartercorder ea \$ 350.00 \$ 3.2500 \$ 3.260.00 Sugar Ib \$ 5.00 \$ 3.2500 \$ 3.260.00 \$ 3.260.00 \$ 3.260.00 \$ 3.260.00 \$ 3.260.00 \$ 3.260.00<	` 				.										
Comment, Class C Mount Procedim Operation Control Control <thcontro< th=""> Control <thcontrol< th=""></thcontrol<></thcontro<>	<u>'</u>							EDD					IEW MEXICO		
Heavy Equipment Mileage mil \$ 7.00 \$ 4.9500 \$ 1.330.00 Proppant and Buik Delivery Charges, pet ton mile fm \$ 3.240.00 \$ 2.106.000 \$ 8.700 Depth Charge; 6001-7000 dhrs \$ 3.240.00 \$ 2.106.000 \$ 3.240.00 Unit Mileage Charge-Pickups, Small Vans & Cars (one mil \$ 4.25 \$ 2.7650.000 \$ 3.007.50 Environmental Succharge Job \$ 100.00 \$ 5.2100.000 \$ 3.000.00 DO Tor Overweight Permit Charge Unit \$ 5.000.00 \$ 2.275.000 \$ 3.300.00 Equipment Operator, first 8 hrs on loc. ea \$ 5.000 \$ 3.260.00 \$ 3.260.00 \$ 3.260.00 \$ 3.260.00 \$ 3.260.00 \$ 3.260.00 \$ 2.275.000 \$ 3.260.00 \$ 3.260.00 \$ 3.260.00 \$ 3.260.00 \$ 3.260.00 \$ 3.260.00 \$ 3.260.00 \$ 3.260.00 \$ 3.260.00 \$ 3.260.00 \$ 3.260.00 \$ 3.260.00 \$ 3.260.00 \$ 3.260.00 \$ 3.260.00 \$ 3.260.00 \$ 3.260.00 \$ 3.260.00 \$ 3.260.00 \$ 3.260.00 \$ 3.260.00 \$ 3.260.00 \$ 3.260.00 \$ 3.260.00 \$ 3.260.				Quanity									Net Amount		
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CONDITIONS Carps in advance unless Base Energy Services (BES, Na. approved crear prior is care. Creat terms of late to control, and to be intervention of the advance of the creation of the	<u> </u>				1			1		1			~ 705		
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control and bold means can on a before to 300 and 500 means that an exact to the sense to an an above to 300 means of the sense to 300 means of															
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Starting work before the event by Cuberrer a sector work with ECE has be "gibb invoke Starting work before the event by Cuberrer a sector work with the bar "gibb invoke Starting work before the bar invoke pre-Uppr invokement Starting work works to begin PER SERVICE INSTRUCTIONS IN ACCORDANCE WITH TERMS AND SERVICE ORDER: IAUTHORIZE WORK TO BEGIN PER SERVICE INSTRUCTIONS IN ACCORDANCE WITH TERMS AND Invoke the based to barrier a sector of the barrier of the				Basic Signature		A	T LI I	4	F.A	~					
A de and singuine subject & character 8/20/18 SERVICE ORDER: I AUTHORIZE WORK TO BEGIN PER SERVICE INSTRUCTIONS IN ACCORDANCE WITH TERMS AND (INCLUDING INDEMNIFICATION OBLIGATIONS) LISTED HERE OR IN THE CUSTOMER CONTRACT FORM AND REPRES IAUTHORIZET AND SIGN THIS ORDER															
InicLUDING INDEMNIFICATION OBLIGATIONS) USTED HERE OR IN THE CUSTOMER CONTRACT FORM AND REPRES	ny and subject is co	Nector						TOWN			E MITH TERME AND	0.000	NTIONE		
AUTHORITY TO ACCEPT AND SIGN THIS ORDER			(INCLUDING IN	DEMNIFICATION	OBLIC	ATIONS) LISTER	D HERE OR IN	THE C	USTOMER CON	TRACT	FORM AND REPRES	SENT T	HAT I HAVE		
CUSTORIER AUTHORIZED AGENT		CUSTOMER AUTHORIZED AGENT	AUTHORITY TO	ACCEPT AND	SIGN T	HIS ORDER									
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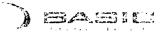
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Midland Yard #1721 - Phone 432-687-1994 - P.O. Box 10451 Midland, Texas 79702

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·					JOD LOG							
Customer:		OWL SWD			Cement Pump No.;	33	666	91				
Address:					Ticket #:	1721-	46266A	Bulk TRK No.:	377	28		
City, State, Zip:				_	Job Type:			PLUGBACK				
Service District:		MIDLAND			Well Type:			OIL				
II Name and No.:	COLLIN	ISOSCOPY FED	001 #2	2	Well Location:		County:	EDDY	State	NEW MEXI		
Туре с	of Cmt	Sacks			Additives	·	1	Truck Loaded On				
CLAS	SS C	50			NEAT		330	366	Front	Back		
					<u></u>		960	691	Front	Back		
<u>.</u>				·			37	728	Front	Back		
Lead	/Tail:	Weight #1 Gal.	Yi	eld	Water Reo	uirements	CU. FT.	Man I	lours / Perso	nnel		
Lea	a d:	14.8	1.	32	6.3		66	Man Hours:				
Та	il:							# of Men on Job.				
Time		Volume	Pu	imps	Press	ure(PSI)	D	escription of Oper	ation and Materia	ls		
(am/pm)	(BPM)	(BBLS)	Т	с	Tubing	Casing						
2:30PM								ARRIVE TO	LOCATION			
				ļ			ļ	TEST W	ATER			
								JS				
						<u> </u>		RIG UP EQ				
3:30PM				<u> </u>	1000			PRESSURE				
3:32PM	2	7			100		1	PUMP F/WAT				
3:35PM	2.5	5.8		<u> </u>	50		MIX	& PUMP CMT		KS)		
3:42PM	1.5	34		──	20-600		0.00					
4:01PM					600			T DOWN,RIG				
						,	REV	ERSE UNIT, F				
		<u> </u>	~	<u> </u>				WAIT ON CI		<u>.</u>		
8:28PM	1.5	5			600			PUMP F/WAT	ER SPACER			
8:42PM	1.5	5.8		<u></u>	600		· · · · · · · · · · · · · · · · · · ·	& PUMP CMT		KS)		
8:52PM	1	29			600-1200	······		DISPLAC				
9:22PM					1200		SHU	T DOWN, RIG	CREW P.O.C	D.H.		
							REV	ERSE UNIT, F	REVERSED C	UT		
							R	IG DOWN AN	D MOVE OUT	-		
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		ļ					 					
Size Hole		Depth		L			TYPE					
Size & Wl. Csg.	5 1/2 17#	Depth			New / Used		Packer		Depth			
tbg.	2 7/8	Depth	60)37	5175		Retainer		Depth			
Top Plugs		Туре					Perfs		CIBP	6037		
						Basic Repres	entative:	GAB	RIEL ESCALI	ERA		
ustomer Sig	nature:				_	Basic Signatu	ire:	lon h	Kal	1		
						Date of Servio	ce:)	8/20/2018			





Midland Yard #1721 - Phone 432.687.1994 - P.O. Box 10451 Midland, Texas 79702

Field Ticket

Customer:	OWL	Pump TRR No. :			82309 Operalis TRX No. 866644								
Address:		Tichel Ne. :		17	21-46108A		-	Bark TRU No	1	737	766		
City, State, Zip:		Job Type:						SQUEEZE	1	····			
Service District	MIDLAND 1721	Viuli Type		-				OIL &GAS					
Fiel Hatter and No. :	COLLINSOSCOPY FEDERAL 001 #2	Well Location:	CARLSBAD		County:	[EDD	Y	1	Statet		NM	
Product	Description	Unit of	Quanity		List	hem		Discounted		Gross		Net Amount	
Code	Cement, Class C	Measure		¢	PriceUnit 20.00	Discount	\$	List Price 12.0000	\$	Amount 1,000.00	e	600.00	
}		sk		\$	20.00		1>	12.0000	1>	1,000.00	<u> </u>	000.00	
	C-15 10%	lb		\$	12.50		\$	112.50					
	Heavy Equipment Mileage	mi		Š	7.00		Š	7.5000	5	187.50	\$ \$	630.00	
	Blending & Mixing Service Charge	sk		\$	1.40		\$ 0.8400 \$ 70.00 \$						
	Proppant and Bulk Delivery Charges, per ton mile	tm		\$	1.60		\$	0.9600	\$	564.80	\$	338.88	
	Depth Charge; 3001-4000'	4hrs		\$	2,160.00		\$	1,296.0000	\$	2,160.00	\$	1,296.00	
	Unit Mileage Charge-Pickups, Small Vans & Cars (one	mi		\$	4.25		\$	2.5500	\$	637.50	\$	382.50	
	Environmental Surcharge	Job		\$	100.00		\$	60.0000	\$	100.00	\$	60.00	
	DOT or Overweight Permit Charge	Unit		\$	50.00		15	30.0000		150.00	\$	90.00	
	Senior Supervisor	day		\$	350.00		ŝ	210.0000		350.00	<u> </u>	210.00	
· · · ·	Equipment Operator, first 8 hrs on loc.	ea		\$	60.00		ŝ	36.0000	_	180.00	\$	108.00	
	Cement Densiometer, with chart recorder	ea		\$	350.00		\$	210.0000		350.00	\$	210.00	
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The stand & r. necessary	6 per month of the maximum allowable by applicable statle of lesteral laws if such laws limit will easily a leaser amount to employ an agency and or attenney in allect the collection of sect account. Clusterial hereby agram is pay all fem.		Latin grade (-	3	2 0	1	•			
di ectly or indexidity incurse any and all discounts previous	of for such guilection. In the event thes Customer vision customer with IV-5 to unner determined ID-5 that the right to revolution purply applied is among at the strength price. Upon to religion, the full manual price refinal decount we become						~~~						
erm adultury due and peen	; and subject to coffection		Date of Services					8/17/				2 10 115	
ļ.		INCLUDING IN	IDEM JFICATION	OBU	GATIONS) LISTE	D HERF OR IN	SIRU THE C	UTIONS IN ACCO	IRAC"	CE WITH TERMS AND FORM AND REPRES	ENT T	HAT : HAVE	
	CUSTOMER AUTHORIZED AGENT	AUTHORITY T	D ACCEPT AND S	SIGN	THIS ORDER				-]	
		stomer Co	mments or	Co	ncerns:								
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					JOB LOG					
Customer:		OWL			Cement Pump No.:	823	09	Operator TRK No.:	8664	14
Address:					Ticket #:	1721-4	6108A	Bulk TRK No.:	7376	6
City, State, Zip:		· · · · · · · · · · · · · · · · · · ·			Job Type:			SQUEEZE		
Service District:		MIDLAND 1721			Woll Type:			OIL &GAS		
li Name and No.:	COLLINS	OSCOPY FEDERA	L 001	#2	Weil Location:	CARLSBAD	County:	EDDY	State:	NM
Type of	Cmt	Sacks			Additives			Truck Loa	ded On	
с		50			3/10%C-15		82	309	Front	Back
<u> </u>							86	644	Front	Bacl
							73	766	Front	Back
Lead/	Tail:	Weight #1 Gal.	Yi	eid	Water Req	uirements	CU. FT.	Man I	lours / Persor	nel
Lea	d:	14.8	1.	32	6.3	51	66	Man Hours:	24	
Tai	1:							# of Men on Job	3	
Time		Volume	Ρι	mps	Press	ure(PSI)	D	escription of Oper	ation and Material	S
(am/pm)	(BPM)	(BBLS)	Т	c	Tubing	Casing				
3:00PM							ר אד)	ME)ARRIVE		
3:10PM				ļ				JSA/RI		
3:45PM							<u> </u>	INJECTIO		
3:50PM								PRESSUF		
3:57PM	11	11.7			700-1900			CEM		
4:10PM	1.05	15			1900-2200		<u> </u>	DISPLAC		
4:31PM					2200-500		_	HESIT		
4:40PM	.31	1.5			500-2700			SQUE		
4:50PM					2700-1500			HESIT		
5:15PM					1500			STING		
5:20PM								RIG D		
6:30PM								LEAVE LC	JCATION	
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Size Hole		Depth					TYPE	<u> </u>	T	·
Size & Wt. Csg.	5 1/2	Depth	4	309	New / Used		Packer		Depth	<u> </u>
tbg.	2 7/8	Depth	3	444			Retainer	YES	Depth	3444
Top Plugs	NA	Туре					Perfs		CIBP	4809
						Basic Repres				ER
Customer Sig	nature:					Basic Signatu			n Al	
						Date of Service	ce:		8/17/2018	

Volus 766/ 16.5 Disp 1.5 cmi pa Fefered



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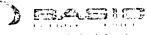
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Customer.	OWL	Pamp TRX No. :			82309			Operator TRX No :		86644		
Address		Ticket No. :		17	21-46106A		Τ	Bath TROL No :		73	766	
lity, State, Zip:		Job Type:						SQUEEZE				
Service District:	MIDLAND 1721	Viel Type:						OIL &GAS				
Name and No. :	COLLINSOSCOPY FEDERAL 001	Well Location:	CARLSBAD		Cousty:	Γ	LE	A		State:		NM
Product	Description	Unit of	Quartery		List	ltem		Discounted		Grass		Net Amount
Code	Cement, Class C	Measure			Price/Unit	Discount		List Price	~	Amount	*	600 (
		sk		\$	20.00		\$	12.0000	3	1,000.00	>	600.0
	Heavy Equipment Mileage	mi		\$	7.00		\$	4.2000	\$	1,050.00	\$	630.
	Proppant and Bulk Delivery Charges, per ton mile	tm		\$	1.60		Š	0.9600	\$	564.80	\$	338.
	Blending & Mixing Service Charge	sk		\$	1.40		\$	0.8400	Ś	70.00	\$	42.
	Depth Charge; 3001-4000'	4hrs		\$	2,160.00		\$	1,296.0000	\$	2,160.00	\$	1,296.
	Unit Mileage Charge-Pickups, Small Vans & Cars (one	mi	-	\$	4.25		\$	2.5500	\$	637.50	\$	382.
	Environmental Surcharge	Job		\$	100.00		\$	60.0000	\$	100.00	\$	60.0
	DOT or Overweight Permit Charge	Unit		\$	50.00		\$	30.0000	\$	150.00	\$	90.0
	Senior Supervisor	day		\$	350.00		5	210.0000	\$	350.00	\$	210.0
	Equipment Operator, first 8 hrs on loc.	ea		\$	60.00		\$	36.0000	\$	180.00		108.0
	Cement Densiometer, with chart recorder	ea		\$	350.00		\$	210.0000	\$	350.00	\$	210.0
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			-			1	1			GROSS TOTAL.		6,612
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										NET TOTAL:	\$	3.967.3
IS AND CONDITION	3. Cesh in advance uniess Desic Linergy Services /DES) has approved credit prior to sele. Credit terms of sale to		Basic Representative					ZUCOREY L	INSTE	ER		
ved accounts are take the stifte rate of 114m	s' monce due on or before the slith day from the date of monce. Pest due eccounts may pay interest on the basance Is per month or the maximum allowable by appricable state or federal laws if such laws limit interest to a lesser amount								3	_		
event it is necessary	in entries an egency and/or allotney to affect the collection of said account. Customer hereby agrees to pay all fees of for each collection, in the event that Customer a extra strategy with BES becomes definitured BES has the north to revise		Ease Signature				<u>_</u>	1-~		2		
nd all oncounts previ	nusly applied in entring it net mixice price. Upon revocation, the full invoice price without discount will become						-	8/15/1	0			
unor, are and owny	y and subject to collection	SERVICE OPP	Dute of Service	EWO	TO BEGIN P	ER SERVICE IN	STRU			E WITH TERMS AND	CONT	TIONS
		(INCLUDING IN	IDEMNIFICATION	OBLIC	GATIONS) LISTE					FORM AND REPRES		
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Customer:		OWL			Coment Pump No.:	82:	309	Operator TRK No.:	8664	14
Address:					Ticket #:	1721-4	16106A	Bulk TRK No.:	7376	6
City, State, Zip:					Job Type:			SQUEEZE		
Service District:		MIDLAND 1721			Well Type:			OIL &GAS		
fell Name and No.:	COLLIN	SOSCOPY FEDER	RAL OC)1	Well Location:	CARLSBAD	County:	LEA	State:	NM
Туре о	f Cmt	Sacks			Additives			Truck Loa	ded On	
С		50	-		NEAT		82	309	Front	Back
	<u></u>				·		86	644	Front	Back
		1			·		73	766	Front	Back
Lead/	Tail:	Weight #1 Gal.	Yi	eid	Water Reg	uirements	CU. FT.	Man ł	iours / Person	nei
Lea	nd:	14.8	1.	32	6.3		66	Man Hours:	48	
Та	il:							# of Men on Job	4	
Time		Volume	PL	imps	Press	ure(PSI)	ם	escription of Operation	ation and Material	5
(am/pm)	(BPM)	(BBLS)	T	С	Tubing	Casing				
3:30PM						÷	Т Х Т)	IME)ARRIVED	ON LOCATIO	DIN
3:35PM								JSA/RI	G UP	
4:02PM	1	5			2800-2700			INJECTIO	N RATE	
4:08PM					4500			PRESSUR	E TEST	
4:12PM	1	11.5	_		2800			CEME	INT	
4:24PM	1.05	18			2300-3100			DISPLAC	EMENT	
4:42PM					880-770			HESIT	ATE	
4:52PM	0.25	2			770-3200			SQUE	EZE	
4:58PM					1300-1200			HESIT	ATE	
5:08PM	0.3	1/2	-		1200-3500			SQUE	EZE	
5:09PM					3200-800			SHUT D	OWN	
5:15PM							·	REVERS	E OUT	
5:45PM						1		RIG DO	OWN	
7:00PM								LEAVE LO	CATION	· · ·
	<u> </u>									
Circa Marta						<u> </u>				
Size Hole	<u>.</u> .	Depth			New / Herd		TYPE		Depth	
Size & Wt. Csg.		Depth			New / Used		Packer			
tbg.		Depth		<u></u>			Retainer		Depth CIBP	
Top Plugs	NA	Туре			L		Perís	·		
. .						Basic Represe		200	OREY LINSTE	<u></u>
Customer Sig	nature:					Basic Signatu			y M	
						Date of Servic	e:		8/15/2018	



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721 - Phone 432.687, 1994 - P.O. Box 19451 Mediand, Texas 79702

	TORCE				ĸ	lidland Yard #	1721	- Phone 432.68	7.1994	- P.O. Box 10451	Midland	, Texas 797	
Customer	OWL SWD	Pump TRK No. :			82309			Operator TRK No. ;		866-	86644		
Address:		Ticlust No. :		1	721-46104	A		Duin TRK No. :		337	6		
City, State, Zip:		Jab Type:						SQUEEZE					
Service District:	MIDLAND 1721	Well Type:						OIL &GAS					
all Single and No. :	COLLINSOSCOPY FEDERAL 001 #2	Well Location:	CARLSBAD		County:		LE/	A		State:		NM	
Product	Description	Unit of	Quanity		List	Item		Discounted		Gross	N	1 Amount	
Code		Measure			Price/Unit 20.00	Discount	\$	List Price 12.0000	٤	4,000.00	\$	2,400.0	
<u> </u>	Cement, Class C	sk 4hrs		\$	2,160.00	· · · · · ·		1,296.0000		2,160.00	\$	1,296.0	
	Depth Charge; 3001-4000' Heavy Equipment Mileage	mi		\$	7.00		\$	4.2000	\$	1,050.00	\$	630.0	
	Blending & Mixing Service Charge	sk		\$	1.40		\$	0.8400	\$	280.00	\$	168.0	
	Proppant and Bulk Delivery Charges, per ton mile	tm		\$	1.60	<u> </u>	\$	0.9600	\$	2,256.00	\$	1,353.6	
	Blending & Mixing Service Charge	sk		\$	1.40		\$	0.8400	5	1.40	\$	0.8	
• •	Unit Mileage Charge-Pickups, Small Vans & Cars (one	mi		\$	4.25		\$	2.5500	\$		\$	382.5	
······································	Environmental Surcharge	Job		\$	100.00	· .	\$	60.0000		100.00		60.0	
	DOT or Overweight Permit Charge	Unit		\$	50.00		S	30.0000	\$		\$	90.0	
	Senior Supervisor	day		\$	350.00	<u> </u>	\$	210.0000	\$		\$	210.0	
· · · · · · · · · · · · · · · · · · ·	Equipment Operator, first 8 hrs on loc.	ea		\$	60.00		5			180.00	\$	108.0	
	Cement Densiometer, with chart recorder	ea	<u> </u>	\$	350.00	ļ	\$	210.0000	\$	350.00	\$	210.0	
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				<u> </u>			<u> </u>		+	GROSS TOTAL	<u> </u>	11,5	
		1		1						NET TOTAL:	\$	6,908	
											·		
	DNS - Cash in advancy unimp: Buny: Energy, Setwory, 1905, rap, app.twp.) crieft prior to said. Crieft Mitty of said & r		for a Hoperation					ZUCOREY	LINS	TER			
orned are supplied to be	The structure due to not before the 30th day from the date of invices. Post due accounts may pay interest on the balance in 8, per month of the maximum allowable by applicable state or fadera laws if nuch laws lend interest to a lesser amount						_	2	71	1			
Designed & C. Designed - D	The structure of a generic and/or allocation to shear the collection of land account. Curationer hereion agreer, to pay all their and its angles or agency and/or allocation to shear the collection of land account. Curationer hereion agreer, to pay all their angles of a collection. It the event that Curationer J account with ISEU becomer definitioner. BEU for the ngrit to some	ļ	Baur Lignatur	τ			~	19-1		<i>p</i>			
, and all devicunts pro	wyonsy sobred in summing at set investe proc. Upon revocation, the first investe provincement discourt, we because		State of Service	z.			~	8/14	/18				
vnedatlery due and de	ang and subject to collector	SERVICE OR			ORK TO BEGIN	PER SERVICE I	NSTR	UCTIONS IN ACC	ORDA	NCE WITH TERMS AN	COND	TIONS	
		(INCLUDING	INDEMNIFICATIO	IN OBL	IGATIONS) US	TED HERE OR U	NTHE	CUSTOMER CO	NIMAC	T FORM AND REPRES	aller i M	ALL PRAYE	
	CUSTOMER AUTHORIZED AGE/IT						_						
		uctomor C	omments o	rCa	nceres.								

தில் குறிதாக குறைகுக்கு காரது காரத்துக்குக்கு திரியாது. காரத்தில் குறித்தில் குறிக்கு குறைக்கு குறைக்கு காரதில காரதிக்கு குறிக்கு குறிக்கு காரதில் காரதிக்குக்கு பிரிக்கு காரதிக்கு காரதிக்கு காரதில் கிறைக்கு காரதில் காரதில் காறதில் கிறிதிக்கு காரதில் காரதில் காரதில் காரதில் காரதில் காரதில் காரதில் கிற

Midland Yard #1721 - Phone 432-687-1994 - P.O. Box 10451 Midland, Texas 79702

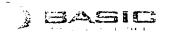
	। 	11 St 21 1			Job Log					
Customer:		OWL SWD		•	Cement Pump No.:	82:	309	Operator TRK No.:	8664	14
Address:					Ticket #:	1721	-461 <i>04</i> A	Bulk TRK No.:	3370	16
City, State, Zip:					Job Type:			SQUEEZE		
Service District:		MIDLAND 1721			Well Type:			OIL &GAS		
Well Name and No.:					Well Location:	CARLSBAD	County	LEA	State:	NM
Туре о	of Cmt	Sacks			Additives			Truck Loa	ided On	
CLAS	SS C	200			NEAT		82	309	Front	Back
							86	644	Front	Back
							33	706	Front	Back
Lead		Weight #1 Gal.	_	eld	Water Req		CU. FT.	Man I	Hours / Person	inel
Lea		14.8	1.	32	6.3	34	264	Man Hours:		
Та	il:							# of Men on Job	3	
Time		Volume	Pu	imps	Press	ure(PSI)	C	Description of Oper	ation and Material	s
(am/pm)	(BPM)	(BBLS)	T	С	Tubing	Casing				
11:00AM							(TX ⁻	TIME)ARRIVE	ON LOCATIO	DIN
11:10AM				ļ				JSA/RI		
11:50 AM	3	5			800			FRESH WATE		
12:11PM	2.5	47			500-1000-700			CEM	=N I	•
12:39PM	1.025	21			0-1100-600			DISPLAC	EMENT	
1:10PM					600			SHUT D		
1:15PM								RIG DO		
2:00PM				<u> </u>				LEAVE LC	CATION	
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Size Hole	ļ	Depth			-		TYPE	ļ		
Size & Wt. Csg.	5 1/2	Depth		309	New / Used		Packer	<u> </u>	Depth	
tbg.	2 7/8	Depth	34	46			Retainer	YES	Depth	3446
Top Plugs	NA	Туре					Perfs	<u> </u>	CIBP	
						Basic Repres		ZUC	OREY LINST	ER
Customer Sig	nature:					Basic Signatu	re:	ļ	236	4
						Date of Servic	ce:		8/14/2018	

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	Midland Yard #1721 - Phone 432,687,1994 - P.O. Box 10451 Midland, Tex									nd, Texas 79702		
Customer:	OWL SWD	Pump TRK No.		:	27890			Operator TRX Ne.:		965	99	
Address:		Tickel No. :		1721	1-46283 A			Buta TRA No.		377	27	
City, State, Zip:		Job Type:				P	LUGE	ACK(DRY-R	U)			
Service District:	MIDLAND.TX	Well Type:					OIL	GAS(SWD)				
Well Name and No. :	COLLINSOSCOPY FEDERAL 001 #2	Well Location:	BUCKEYE		County		LEA		<u> </u>	Siste:		NM
Product	Description	Unit of	Quanity	_	List	tem		Discounted		Gross	ŀ	let Amount
Code		Measure		P	rice/Unit	Discount	,	List Price		Amount		
										4 220 00	-	964.60
	Heavy Equipment Mileage	ni		\$	7.00		\$	4.5500		1,330.00	<u>\$</u> \$	864.50 91.00
	Blending & Mixing Service Charge	sk		\$	1.40		\$	0.9100	\$ \$	140.00	\$	928.72
	Proppant and Bulk Delivery Charges, per ton mile	<u>tm</u>		\$	1.60	<u> </u>	\$	1.0400	->		3	520.72
	······································											
	Unit Mileage Charge-Pickups, Small Vans & Cars (one	mi		s	4.25		5	2.7625	\$	807.50	\$	524.88
	Environmental Surcharge	Job		\$	100.00		\$	65.0000			\$	65.00
·	DOT or Overweight Permit Charge	Unit		\$	50.00		\$	32.5000		150.00	_	97.50
	Senior Supervisor	day		\$	350.00		\$	227.5000	\$		\$	227.50
	Equipment Operator, first 8 hrs on loc.	ea		\$	60.00		\$	39.0000	5		\$	117.00
	Cement Densiometer, with chart recorder	ea		\$	350.00		\$	227.5000	S	350.00	\$	227.50
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	<u>}</u>	L	1			·			1	NET TOTAL:	\$	3,143.60
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ILRIAS AND CONDITION	to over a standard backgroup, even all spar apprenticed products. Court in the fi	L	e no Repo India			1-1A-	i - 1 -	LACYJM	CNEIL	,411		
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0.000 0 00 00 mea	್ಯ ಗೀರ್ಷಾಧ್ಯ ಭಾತ್ರಗಳು, ಪನ್ನಭಾವಧಿಗಾ () ಕಾರ್ಮಿಗಳ ಮಾಡಿದ ಗಳ ಮಾಡಿದ ತಿಲ್ಲು ಸಾಯನ್ ಗಾಗಾಡಿದ ಪ್ರಶಾಸ () ಶಿತ್ರ ಕೇಳು, ಸಂತ ಕ್ಷಣ ಕೇತಿ ಮತ್ತು ಮಾಡಲಾಗಿ ಕೇಳೆ ಕೋರ್ಟ್ ಮಾಡಲಿಗೆ ಕಾರ್ಯವರ್ಷ ಮಾಡಲಾಗಿ ಹಿಂದಿ ಮಾಡಲಾಗಿ ಗಾಗಾಡಿದ್ದ ಮಾಡಲಿ ಹಿಂದಿ ತಾರಿಗೆ ಮಾಡಲ್ ಮಾಡಲ್ ಪ್ರಭಾನ ಕ್ಷಣಾಗ್ ಸ್ಟ್ರಾರ್ ಮೇಲೆ ಗಾರು ಪ್ರಶಸ () ಭಾರತಗಳು ಮಾಡಲಿಗೂ ಮೇಲೆ ಹಿಂದಿ ಮಾಡಲಾಗಿ ಗಾಗಾಡಿದೆ. ಇದು ಮೇಲೆ ಮಾಡಲ್ ಮಾ		<u>. د امت. دمهٔ</u>		/ 	4				****	-	
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		stomer C	omments o	r Con	cerns:							
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Customer:	[OWL SWD			Cement Pump No.:	278	390	Operator TRK No.:	9655	29
Address:					Ticket #:	1721-4		Bulk TRK No.:	3772	
						1/21-4		1		
City, State, Zip:				·	Job Type:			GBACK(DRY-RU		
Service District:	+	MIDLAND,TX	·		Woll Type:			& GAS(SWD))	
Well Namo and No.:	<u> </u>	OSCOPY FEDERA	L 001	#2	Well Location:	BUCKEYE	County:	l	State:	NM
Туре с	of Cmt	Sacks			Additives			Truck Loa	aded On	
							27	890	Front	Back
		_		<u> </u>				599	Front	Back
								727	Front	Back
Lead		Weight #1 Gal.	Yi	eld	Water Req	uirements	CU. FT.		Hours / Persor	nel
Lea						·····	ļ	Man Hours:	3	
Та								≢ of Men on Job	3	
Time		Volume		imps		ure(PSI)		escription of Oper	ation and Materia	Is
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Size Hole		Depth					TYPE	1		
Size & Wt. Csg.		Depth			New / Used		Packer		Depth	
tbg.		Depth			11011/0300		Retainer		Depth	
Top Plugs		Туре					Perís	\square	CIBP	
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Lamin OVI, SW0 Hart Name 27880 Remun 0.2889 Lamin Wint Name Wint Name <td< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th>Idland YarJ #1</th><th>721</th><th>- Phone 432.68</th><th>7.1994</th><th>- P.O. Box 10451</th><th>_</th><th>and, Texas 79702</th></td<>							Idland YarJ #1	721	- Phone 432.68	7.1994	- P.O. Box 10451	_	and, Texas 79702
Unit Notes Joint Source PLUBEARDUREZEI Serve Ander Serve Ander Serve Ander Coll.LISKOSCOMP FEDERAL 00 192 material material construction CARL SDAD Construction Coll. Source Source Carlos C Source Source Source Construction Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source	Cuslomen	OWL SWD	Pump TRK No. :			27890			Operator TRM No		96	599	
Name Tables BIDLAND (X) and the set of the	Address		Ticket No. :		172	1-46292 A			Ball. TADE No.		28	891	
Name Tables BIDLAND (X) and the set of the	City, State, Zipi		Job Type:				PL		ACKISOUEE	1			
COLLINGOSCOPY FEDERAL 09192 Matter Compo Matter Compo Compo Matter Compo Matter Compo Matter									· · · · · · · · · · · · · · · · · · ·				
Photo Description Model of our processor Dame	Service District.		Well Type:					OIL	& GAS(SWD)				
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Customer Comments or Concerns:													
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Job Log

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Customer:		OWL SWD			Cement Pump No.:	278	390	Operator TRK No.:	965	99			
Address:					Ticket #:	1721-4	6292 A	Bulk TRK No.: 28891					
City, State, Zip:					Job Type:		PLUGBACK(SQUEEZE)						
Service District:	MIDLAND,TX				Well Type:	• • • •	OIL	OIL & GAS(SWD)					
ell Name and No.:	Name and No.: COLLINSOSCOPY FEDERAL 001 #2				Well Location:	CARLSBAD	County:	EDDY State: NM					
Туре о	of Cmt	Sacks			Additives			Truck Loa	aded On	.			
CLASS C 60			3/10% C-15		27	890	Front	Back					
							96	599	Front	Back			
							28	891	Front	Back			
Lead/Tail: Weight #1 Ga		Weight #1 Gal.	Yield Water Rec			uirements	CU. FT.	Man Hours / Personnel					
Lea		14.8	1.	32	6.:		79.2	Man Hours:	12				
Ta	ii:							# of Men on Job	3				
Time		Volume	Pu	imps	Press	ure(PSI)	с. С	escription of Oper	ration and Materia	ls			
(am/pm)	(BPM)	(BBLS)	т	С	Tubing	Casing							
1000A								ARR	IVE				
1015A								SPOT E					
1035A								RIG					
1200P							1	JS					
1215P					4000			PSI T					
1220P	.7-1.2	7			4000	0-2900	1	EST. RAT					
12207 1233P	1.2-1.7	14.1				2900-2075				2407)			
	1						WINGF	UMP CMT @1		. 3407)			
1245P	1.75	13.5				2075-4000							
1255P	0.4	0.05	<u> </u>			4000-1675	SHUT DOWN & WAIT 10MIN.						
105P	0.1	0.25				1675-4000	DISPLACE STG.2						
107P						4000-2400	SHUT DOWN & WAIT 10MIN.						
117P	0.1	0.2				2400-4000	DISPLACE STG.3						
119P						4000-0		SHUT DOWN					
125P		40-50						REV. HAND					
142P						<u>.</u>		CMT CREW					
200P				ļ			ļ	RDI	<u>NO</u>				
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Size Hole		Depth					TYPE						
Size & Wt. Csg.	5 1/2 & 17#	Depth	35	47'	New / Used		Packer		Depth				
tbg.	2 7/8	Depth	34	87'			Retainer	YES	Depth	3487'			
Top Plugs		Туре			1		Perís	3500'-3508'	CIBP	3547'			
<u></u>	<u>.</u>	· · · · · · · · · · · · · · · · · · ·	-		t	Basic Represe	.		ĆY, J MCNEIL	L			
Customer Sig	nature:					Basic Represe Basic Signatu			WINCIEL	Eng-			
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						Date of Servic	e:		8/24/2018				

Workover Summary

Company: OWL SWD Operating Well: Collinsoscopy Fed 1 Workover: Well Conversion to SWD Work performed by: Integrated Petroleum Technologies

8/6/2018

Pull tested anchors on location (good test).

8/8/18

Spotted rig, frac tanks and equipment.

8/9/18

Spotted pump, tested & nipple up BOP's. Secured Well.

8/10/18

Ran in hole with retrieval tool and pulled out of hole with retrievable bridge plug (set at 2686'). Secured Well.

8/11/18

Made bit and scraper run (down to 3881') to CIBP but CIBP was not found in well. Ran in hole with test packer to 3550'. Annular held 900 psi, tubing pressured to 1500 psi then dropped to 0 psi. Made bit and scraper run to 5327' and tagged 3 times. Circulated 9.9# salt water to clean hole. Secured Well. Collected 40 bbl of oil back at surface at the end of the day.

8/13/18

Spoke with BLM who wanted to drill 50' past the tagged point at 5327' to see if there was good cement. Pulled out of hole with bit & scraper. Made up and ran in hole with bridge plug and packer.

Tested to 2000 psi between 4872' - 5000' (good test).

Moved packer to test between 4809' – 5000' and established injection rate of 4 BPM @ 1300 psi. Released and pulled packer & bridge plug.

Tested to 2000 psi between 3540' – 4809' (good test). Release packer to test between 3446' – 4809' and established injection rate of 3 BPM @ 750 psi. Spotted sand on top of retrievable bridge plug, pulled packer and top off well. Secured Well.

8/14/18

Set cast iron cement retainer at 3446' and pressure tested casing to 1000 psi (good test). Stung into cement retainer and established injection rate of 2 BPM @ 800 psi. Pumped 200 sks of Class C neat cement @ 2.5 BPM and displace tubing with 20.5 bbls of fresh water. Reverse circulate tubing and secured well.

8/15/18

Stung into cement retainer and pressure tested to 1000 psi but pressure dropped to 600 psi in 10 minutes. Established injection rate of 1.0 BPM @ 3200 psi. Pumped 50 sks of Class C neat cement and hesitation squeezed last 5 bbls @ 1230 psi for 10 minutes. Cement successfully held 800 psi. Reverse circulated tubing. Secured well.

8/16/18

Pressure tested squeeze and noticed leak off at cement retainer. Pulled out of hole. Made up and ran in hole with collars and bit. Drilled off to perfs and did not find cement. Established injection rate of 1.0 BPM @ 2300 psi. Secured well.

8/17/18

Pulled out of hole with bit. Set cast iron cement retainer at 3444'. Pressure tested above retainer at 1000 psi (good test) and established injection rate through retainer at 1.0 BPM and 2300 psi. Squeezed perfs with 50 sks of Class C cement containing additive 10% C-15 for water loss. The last 3 bbls were staged to achieve a final squeeze pressure of 1520 psi. Circulated tubing and pulled out of hole. Made up bit and collar and ran in one joint. Secured well.

8/18/18

Ran in hole with bit and collars and tagged cement at 3436'. Pick up to 3431' and circulate. Drilled cement and shut down due to weather. Secured well.

8/19/18

Drilled retainer and cement down to top of bridge plug. Pressure tested casing to 1050 psi and observed 20 psi loss over 20 minutes (good test). Pulled out of hole with bit. Ran retrieval tool and washed over bridge plug to retrieve and pull out of hole. Ran in hole with bit and collars to ream out bridges from 5327' – 6037' (tagged retainer). Secured well.

8/20/18

Pulled out of hole with bit. Ran in hole with tubing and set balanced cement plug from 5800' - 6037'. Circulated tubing and pulled out of hole. Tagged top of cement @ 5801' and set a 25 sk balanced cement plug from 5175' - 5410'. Circulated and pulled tubing. Secured well.

8/21/18

Ran in and tag cement at 5175'. Pulled tubing out of hole. Rigged up wireline and ran in hole with CBL. Rigged up charges and ran in hole to perforate intervals between 4860' – 5140' shooting 4 spf. Secured well.

8/22/18

Perforated intervals between 3860' – 4688' shooting 4 spf. Ran in hole and set Permapack packer at 3725' and released wireline. Ran in hole with 3.5" internal coated tubing, spaced out, pumped packer fluid and tested backside. Nippled down BOP and nippled up wellhead and valve. Secured well.

8/23/18

Attempted multiple MIT pressure tests but annular failed to hold pressure. Pulled slips and pulled 40k into packer and slacked off 28k; repeated pull & slack twice and let set for 10 minutes. Pressured up to 2700 psi and established injection rate of 1.0 BPM. Notified office. Nippled down wellhead and nippled up and tested BOP. Released seal assembly and stood back tubing. Made up and ran in hole mechanical packer and pressure tested from 3486' – 3722' (good test). Secured well.

8/24/18

Pulled out of hole and laid down packer. Ran in and set retrievable bridge plug at 3547'. Ran in and set cement retainer at 3486'. Pressure tested lines, stung into cast iron cement retainer and squeezed perfs with 60 sks of Class C neat cement with 10% C-15 additive. Achieved 4000 psi squeeze and held pressure. Left 4000 psi on the squeeze, stung out, circulated tubing and pulled out of hole. Secured well.

8/25/18

Made up and ran in hole with bit and collars to tag cement at 3475'. Drilled cement and part of retainer when bit lost a cone. Pulled out of hole with bit. Made up and ran back in with mill and collars to mill cone and retainer. Circulated hole clean and pulled out of hole. Made up and ran in hole with new bit and collars. Only made 6". Secured well.

8/26/18

Pulled bit and collars, rigged up sand line and magnet. Made 3 runs and fished out small pieces of cone and large amount of cast iron until no more fish. Rigged down sand line and made up bit and collars and ran in hole. Drilled on cement retainer (only made 4"). Prepared for bit trip. Secured well.

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8/27/18

Pulled out of hole with bit. Waited on new bit and stabilizers. Secured well.

8/28/18

Made up new bit and stabilized BHA. Drilled retainer and cement and pulled out of hole. Made up and ran in hole with packer to set at 3490' and test the perfs between 3500' – 3508'. Both tubing and annulus test was good at 500 psi with no pressure bleed off. Tested casing from 3547' to surface at 560 psi; lost 20 psi over 30-minute test (good test). Bled off pressure and secured well.

8/29/18

Pulled packer out of the hole. Retrieved bridge plug. Made up and ran in hole with anchor seal assembly on 3.5" coated tubing and stung into packer. Circulate packer fluid, space out and land hanger. Nippled down BOP and nippled up wellhead. Pressured annulus to 550 psi. Secured well.

8/30/18

Performed MIT test at 590 psi, lost 15 psi over 30 minutes (good test). Witnessed by: Gilbert Cordero NMOCD Dist 2. Rigged down and demob. Spotted acid trucks and tested lines. Opened well and burst disk at 2507 psi. Acidized with 238 bbl acid at 12 BPM & 2280 psi.

Pumped 50 bbls of gel water at 12 BPM & 2275 psi.

Pumped acid with 238 bbl acid at 12 BPM & 2282 psi.

Pumped 50 bbls of gel water at 12 BPM & 2278 psi.

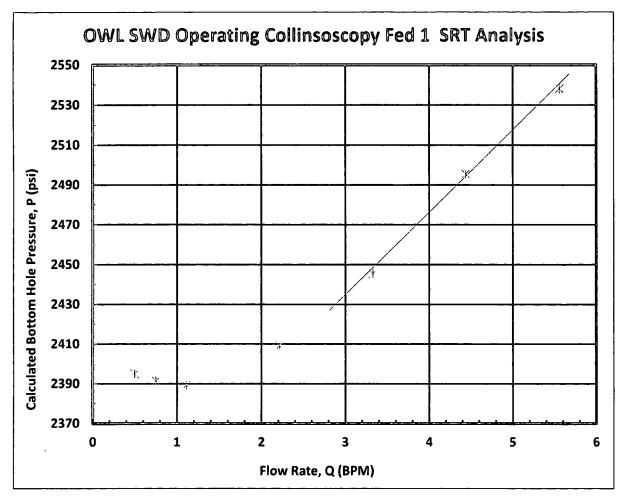
Pumped acid with 238 bbl acid at 12 BPM & 2270 psi.

Pumped 50 bbls of gel water at 12 BPM & 2280 psi.

Pumped acid with 238 bbl acid at 2 BPM & 2276 psi (decrease rate to bottom of tank).

Pumped 500 bbls of salt water to flush at 12 BPM with a startup pressure of 1645 psi and end pressure of 1915 psi, ISIP 743 psi, 5-minute 741 psi, 10-minute 737 psi. Conducted step rate test at 0.5, 0.75, 1.11, 2.22, 3.33, 4.44 & 5.56 BPM. ISIP: 726 psi, 5-minute 712 psi. Pumped remaining fluid, 521 bbls @ 17 BPM @ 3040 psi. Shut in and secured well.

8/31/18 Cleaned up location. The 7-step Step Rate Test was performed after the acidizing job to identify fracture gradient. In this case however, the rates were not high enough to produce pressures above the fracture gradient and thus, a breakover point was not identified.



The wellhead pressures were recorded in 5-minute intervals throughout each 30-minute rate step. The following table was created to document the corresponding rates pumped and pressures identified.

Rate	5-Minute Recorded Wellhead Pressures for Each SRT Pump Rate Time (minutes)												
(bbl/min)	0 5 10 15 20 25												
0.5	716	713	712	711	711	710	709						
0.75	713	712	712	711	709	708	706						
1.11	715	713	712	713	713	712	713						
2.22	745	752	755	757	760	761	763						
3.33	820	824	826	828	839	836	839						
4.44	919	922	924	929	934	930	936						
5.56	1045	1036	1046	1046	1015	1004	997						

A cost analysis was performed to identify the variation in costs between the estimate (for AFE purposes) and the actual completion costs collected on location. The initial estimated cost to re-enter the P&A and re-complete for salt water disposal operations was \$594,535. This is compared to the actual re-completion cost of \$760,988; resulting in a cost difference of \$166,453 between the estimated and actual recompletion.

The reason for this cost difference is based on several factors. Initially, only one squeeze job was planned for this recompletion. This means that four additional squeeze jobs were performed to ensure wellbore integrity and satisfy regulatory parties on location. The additional squeeze jobs led to:

Increased

- Tool rental time
- Supervision
- Circulating fluid
- Trucking

Additional

- Rental tools
- Equipment purchases
- Surface rentals (including acid tanks and transport)

Moreover, the step rate test was added to completion procedure after the cost estimate was submitted. After quoting the internally coated tubing, the initial manufacture identified manufacturing limitations and long lead times which let to using a more expensive internally coated tubing. Finally, the engineering cost was increased due to the engineer in the office quoting and prepping field services for deployment to location instead of the field supervisor.

