



Job Summary

Ticket Number	Ticket Date
TN# BCO-1908-0002	8/1/2019

COUNTY	COMPANY	API Number
Weld	PDC ENERGY	05-123-20519
WELL NAME	RIG	JOB TYPE
SLW Ranch - 12-7	Ensign 318	CM-P2A-PERM.
SURFACE WELL LOCATION	CJES Field Supervisor	CUSTOMER REP
40.41556 -104.48692	Francisco Flores	Hector Terrazas

EMPLOYEES		
<i>Tyler Ingalls</i>	<i>Jake Guseman</i>	
<i>James Verhey</i>		
<i>Jared Cross</i>		

WELL PROFILE			
Max Treating Pressure (psi):	1000	Bottom Hole Static Temperature (°F):	
Bottom Hole Circulating Temperature (°F):		Well Type:	Oil

Open Hole

1	Size (in)	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)
	10	1750	1320		
2	Size (in)	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)
	14	580	380		

Casing/Tubing/Drill Pipe

Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)
Surface	8.625	24		380	0		
Production	4.5	10.5		1800	1750		
Tubing	2.375	4.7		1800	0		

CEMENT DATA

Stage 1:
Type: **Stub Plug**

From Depth (ft): **1800** To Depth (ft): **1320**
Volume (sacks): **180** Volume (bbls): **42.6**

Cement & Additives:	Density (ppg)	Yield (ft³/sk)	Water Req.
Type III	14.8	1.33	6.32

Stage 2:
Type: **Surface Plug**

From Depth (ft): **580** To Depth (ft): **0**
Volume (sacks): **240** Volume (bbls): **57**

Cement & Additives:	Density (ppg)	Yield (ft³/sk)	Water Req.
Type III	14.8	1.33	6.32

Stage 3:
Type: **Top Off**

From Depth (ft): To Depth (ft):
Volume (sacks): **8** Volume (bbls): **2**

Cement & Additives:	Density (ppg)	Yield (ft³/sk)	Water Req.
Type III	14.8	1.33	6.32

SUMMARY

Preflushes:	10 bbls of SAPP	Calculated Displacement (bbl):	5.1	Stage 1	Stage 2
	5 bbls of Fresh Water	Actual Displacement (bbl):	5.1		
	10 bbls of Fresh Water	Plug Bump (Y/N):		Bump Pressure (psi):	
Total Preflush/Spacer Volume (bbl):	25	Lost Returns (Y/N):		(if Y, when)	
Total Slurry Volume (bbl):	101.6				
Total Fluid Pumped	133.7				
Returns to Surface:	Cement 1 bbls				

Job Notes (fluids pumped / procedures / tools / etc.):

Stub Plug-Production casing cut@1750'. End of tubing@1800'. Estimated 10" O.H. Mix & pump 100lbs SAPP ahead followed by 5 bbls fresh water spacer. Mix & pump 180sx@14.8ppg 1.33Y. 50' of coverage inside casing and 430' of O.H. coverage. ETCO@1320'. Displaced it with 5.1 bbls of fresh water. Crew then pulled up to 580' pumped it to surface. Mix & pump 240sx@14.8ppg 1.33Y. Topped off well with 2 bbl (8sx). Pumped job per customers request. Job went well. Thank you!

Customer Representative Signature: _____

Thank You For Using
CJES O-TEX Cementing

Cement Job Log



Customer:	PDC ENERGY	Date:	8/1/2019	Serv. Supervisor:	Francisco Flores
Cust. Rep.:	Hector Terrazas	Ticket #:	BCO-1908-0002	Serv. Center:	Brighton - 3021
Lease:	SLW Ranch - 12-7	API Well #:	05-123-20519	County:	Weld State: CO
Well Type:	Oil	Rig:	Ensign 318	Type of Job:	CM-P2A-PERM.

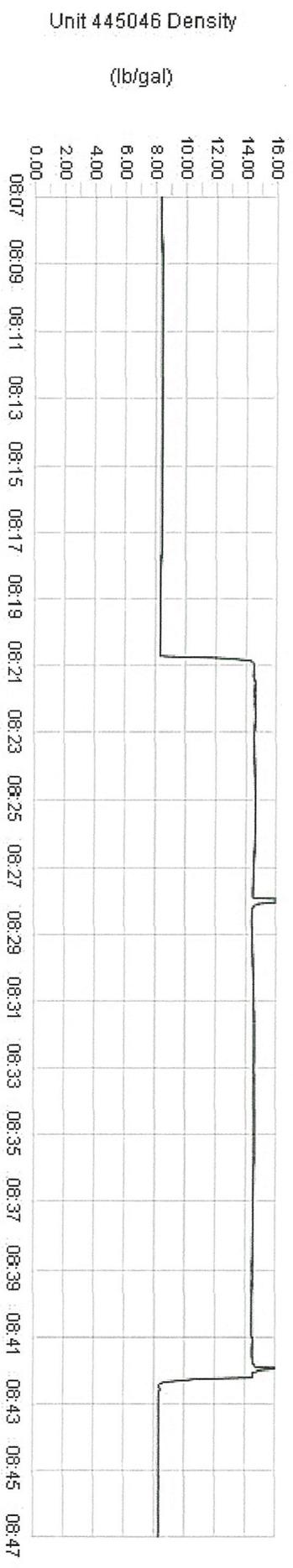
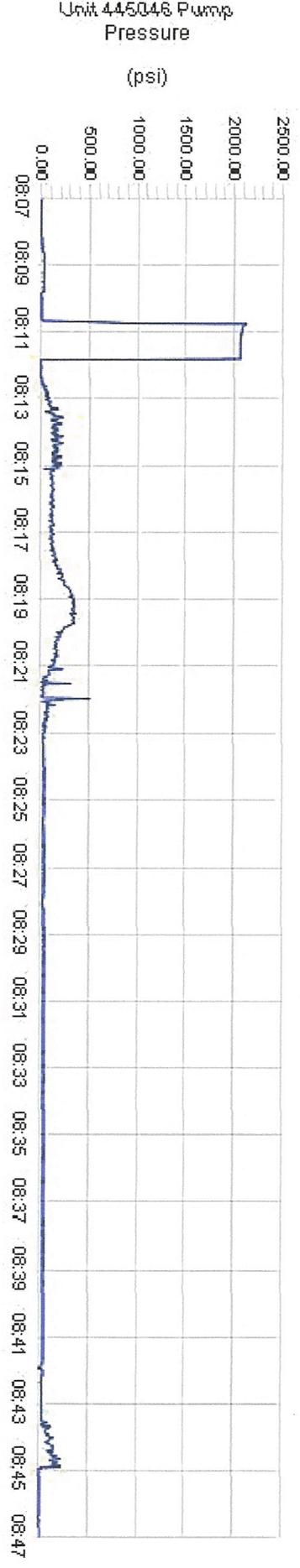
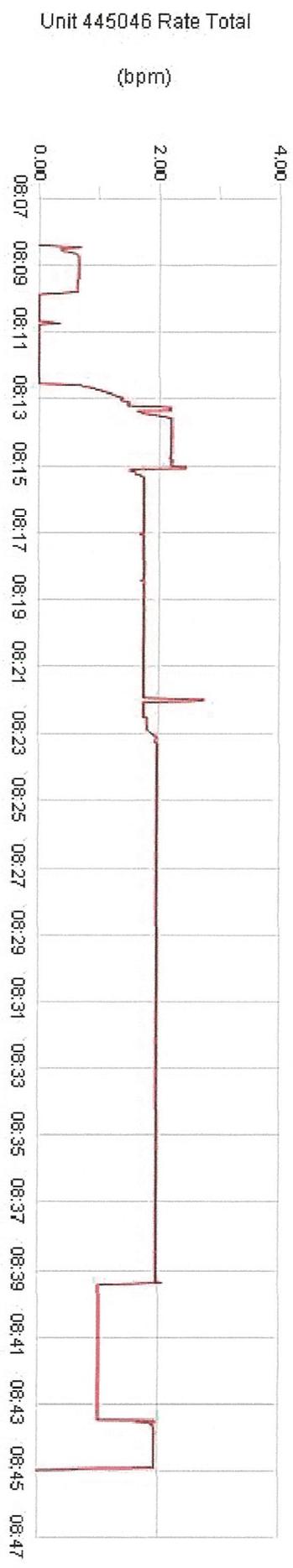
Time	Rate	Csg. Press.	Tbg. Press.	Ann. Press.	Stg. Vol.	Cum. Vol.	Stage Num.	Stage	Stage Details
	(bbl/min)	(psi)	(psi)	(psi)	(bbl)	(bbl)			
7:00 AM						0.0 bbl	1	ARRIVE ON LOCATION	
7:05 AM						0.0 bbl	1	SPOT EQUIPMENT	
7:10 AM						0.0 bbl	1	RIG UP IRON AND HOSES	
7:55 AM						0.0 bbl	1	PRE JOB SAFETY MEETING	
8:08 AM	1		35			1.0 bbl	1	FILL LINES & PRESSURE TEST TO 2000 PSI.	
8:11 AM	2		150			10.0 bbl	1	MIX & PUMP 100LBS SAPP	
8:16 AM	2		100			5.0 bbl	1	FRESH WATER SPACER	
8:19 AM	2		105			43.0 bbl	1	MIX & PUMP 180SX@14.8PPG 1.33Y	
8:41 AM	1.5		35			5.0 bbl	1	DISPLACEMENT	
9:00 AM						64.0 bbl	1	WASH UP SCM	
9:15 AM						64.0 bbl	1	WAIT ON CEMENT TO ARRIVE	
11:15 AM						64.0 bbl	1	HOOK BACK UP TO WELL HEAD	
11:17 AM	2		30			10.0 bbl	1	FRESH WATER AHEAD/ BREAK CIRCULATION	
11:22 AM	2		133			57.0 bbl	1	MIX & PUMP 240SX@14.8PPG 1.33Y	
12:20 PM	.5		0			2.0 bbl	1	TOP OFF WELL	
12:30 PM						133.0 bbl	1	WASH UP SCM	
1:00 PM						133.0 bbl	1	RIG OUT	
1:15 PM						133.0 bbl	1	LEAVE LOCATION	
						133.0 bbl			
						133.0 bbl			
						133.0 bbl			
						133.0 bbl			
						133.0 bbl			
						133.0 bbl			
						133.0 bbl			
						133.0 bbl			

Left Yard	8/1/19 6:00 AM	Left Loc.	8/1/19 1:15 PM	Start Pump	8/1/19 8:08 AM
Arrived Loc.	8/1/19 7:00 AM	Returned Yd.	8/1/19 3:00 PM	End Pump	8/1/19 1:00 PM

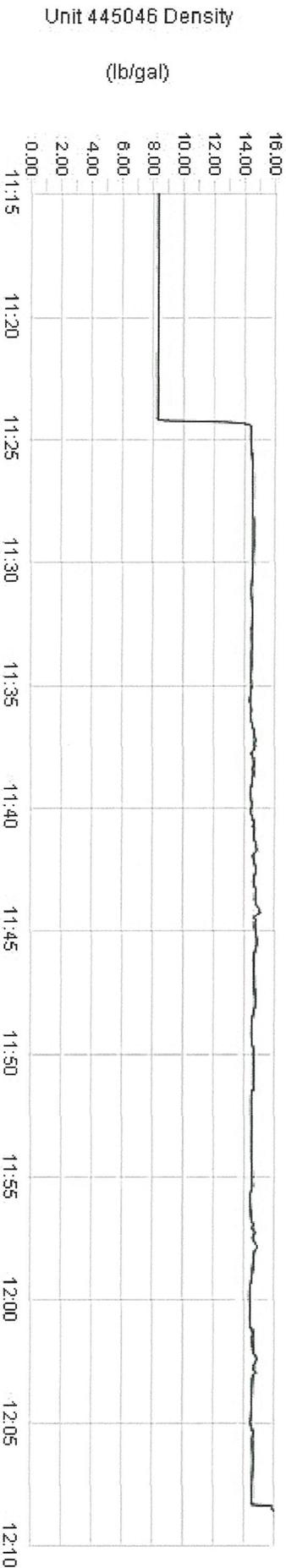
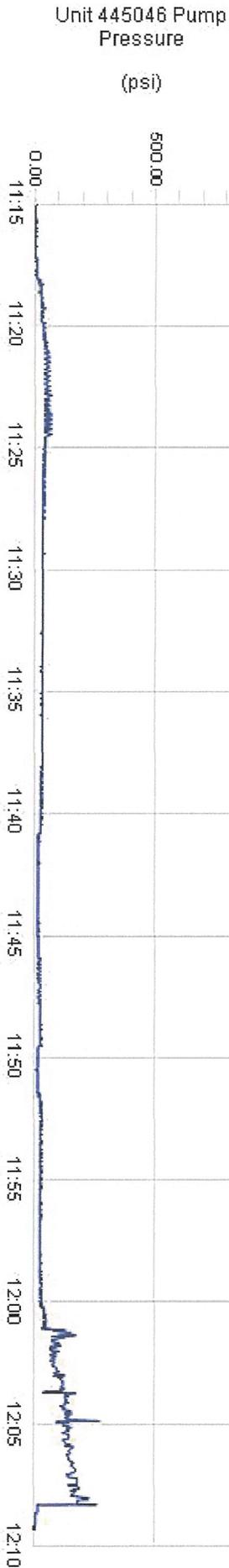
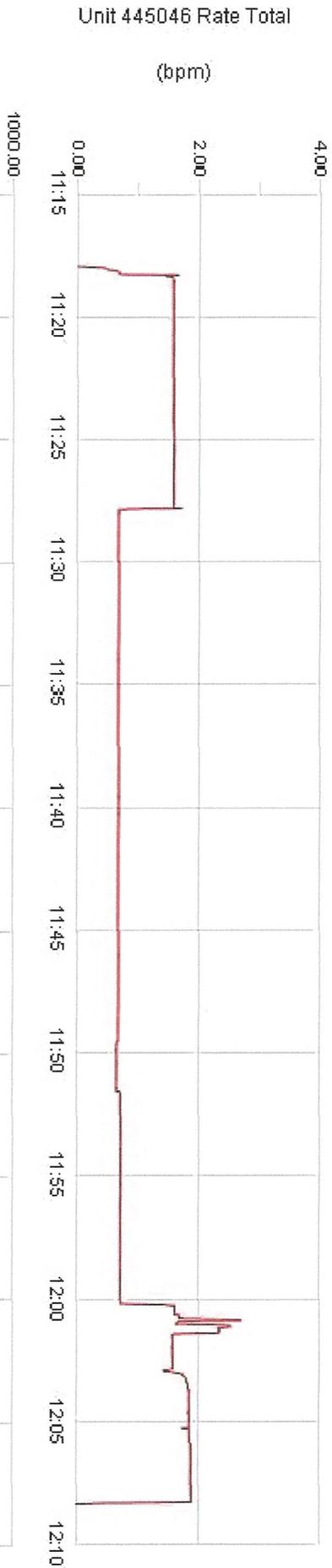
Bumped Plug (psi)	Final Differential (psi)	Floats Held (Y/N)	PSI Left on Casing	Cement to Surface (bbl)	Top of Cement (ft)	Full Circ. During Job (Y/N)	Max Pump Pressur	Casing Rotation	Standby Charged (hrs)	Casing Reciprocation	Wireline Co.
				1	0	Yes	1000	N/A	0	N/A	Unknown

Francisco Flores								8/1/2019			
Service Supervisor								Date			

Client	PDC Energy	Client Rep	Hector Terrazas	Supervisor	Francisco Flores
Ticket No.	19080002	Well Name	SLW Ranch 12-7	Unit No.	445046
Location	SWNW Sec 7 5N 63W	Job Type	Abandonment Plugs	Service District	Brighton
Comments	180sx@14.8ppg 1.33Y			Job Date	08/01/2019



Client	PDC Energy	Client Rep	Hector Terrazas	Supervisor	Francisco Flores
Ticket No.	19080002	Well Name	SLW Ranch 12-7	Unit No.	445046
Location	SWNW Sec 7 5N 63W	Job Type	Abandonment Plugs	Service District	Brighton
Comments	Surface Plug	Job Date	08/01/2019		



CASEDHOLE SOLUTIONS



Rev.042519 A	CUSTOMER P. O. NUMBER	Ticket No. (SO) F-7737	PAGE 1 of 1
* Service charges include a daily per diem of \$30.00/employee and a daily catering charge (when provided by Casedhole Solutions) of \$25.00/employee.			DATE 07/24/2019
To CASEDHOLE SOLUTIONS, INC You are hereby requested to perform or attempt to perform the following service(s) or furnish the following equipment:			

SERVICE(S) AND/OR EQUIPMENT REQUESTED

CUSTOMER FURNISHED LEASEWELL INFORMATION	COMPANY	PDC ENERGY			
	LEASE	SLW RANCH	WELL NUMBER	12-7	
	LEGAL & LOCATION	SWNW, SEC7, T5N, R63W			
	FIELD	WATTENBERG	PARISH/COUNTY	WELD	STATE CO

THE UNDERSIGNED, HEREINAFTER REFERRED TO AS CUSTOMER AGREES TO PAY YOU FOR THE ABOVE SPECIFIED SERVICE(S) (INCLUDING LEASED EQUIPMENT) AND ANY ADDITIONAL SERVICE(S) REQUESTED, AT THE FIELD OFFICE OF CASEDHOLE SOLUTIONS, INC. IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF YOUR CURRENT PRICE SCHEDULE.

IN CONSIDERATION OF THE PRICES AS ARE SET OUT IN YOUR CURRENT APPLICABLE PRICE SCHEDULE WE CHOOSE TO BE BOUND BY THE TERMS AND CONDITIONS SET OUT IN THE CURRENT PRICE SCHEDULE (ALSO PRINTED ON THE REVERSE SIDE HEREOF), INCLUDING THE ASSUMPTION BY US OF THE LIABILITIES AND RESPONSIBILITIES CONTAINED IN THE RESPONSIBILITIES HEREIN ASSUMED BY US.

WHEN SIGNED BY AN AGENT ON BEHALF OF CUSTOMER, SAID AGENT REPRESENTS THAT HE HAS FULL AUTHORITY FROM HIS PRINCIPAL TO EXECUTE SAME, IN THE ABSENCE OF AUTHORITY, THE SIGNER AGREES THAT HE SHALL BE OBLIGATED HEREUNDER AS CUSTOMER.

CUSTOMER NAME PDC ENERGY	INVOICE MAILING ADDRESS	CITY	STATE	ZIP CODE
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SIGNATURE OF CUSTOMER OR AUTHORIZED REPRESENTATIVE X	Thank you for using Casedhole Solutions!!	Total runs, all pages	2
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THE ESTIMATED CHARGES AND DATA SHOWN ARE SUBJECT TO CORRECTION BY CASEDHOLE SOLUTIONS, INC. ACCOUNTING

UNIT NUMBER 200099	OPERATION TYPE: _____	WELL TYPE: _____	ROUND TRIP MILEAGE
TRIP: _____	HOISTING TYPE: _____		

WIRELINE DEPTH	MAX. WELLHEAD PRESSURE	PSI	BOTTOM HOLE PRESSURE:	PSI
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Desc. NO.	PERF. INTERVAL	PLUG DEPTH	OPERATION	ITEM	QUAN.	UNIT PRICE	DISC	DISC. PRICE	AMOUNT	SERVICE	FIRST READING	LAST READING	FOOTAGE DEL.
1		6680'	P - Plug or Retainer - setting (3rd party)	each	1					Plug			
2			P - Dump Bailer	per run	1					Perf			
					1								
					1								
					1								
					1								

Runs for this job made in July were 2	CIBP 2SXS @6880'	TOTAL D	ESTIMATED TOTAL C	STANDARD PRICIN	NO. DESC.	NO. SHOTS FIRED	NO. SEL. SWITCHES	SEL. SW. FAILURES
					0	0	0	0
					10K		0	0
				Was catering provided by Casedhole Solutions?				
				NO				

SIGNATURE OF CUSTOMER OR AUTHORIZED REPRESENTATIVE X	LOGS RECEIVED AT WELL	CUST. INITIALS	SIGNATURE OF CASEDHOLE SOLUTIONS ENGINEER
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