



Job Summary

Ticket Number	Ticket Date
TN# BCO-1905-0043	5/10/2019

COUNTY	COMPANY	API Number
Weld	PDC ENERGY	05-123-26853
WELL NAME	RIG	JOB TYPE
Wells Ranch 12-36	Ensign 318	Plug to Abandon
SURFACE WELL LOCATION	CJES Field Supervisor	CUSTOMER REP
40.44444 -104.39206	Siarhei Dzmitryieu	Eduardo Chavez

EMPLOYEES		
Anthony Nelson		
Jared Cross		

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)
2	Size (in)	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)

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		0	463	0	463
Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)
Production	4.5	10.5		0	6524	0	6524
Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)
Tubbing	2.375	4.7		0	6524	0	6524

CEMENT DATA

Stage 1:	From Depth (ft):	6398	To Depth (ft):	6524
Type: Balance plug	Volume (sacks):	10	Volume (bbls):	2
Cement & Additives:				
Class G			Density (ppg):	15.8
			Yield (ft ³ /sk):	1.15
			Water Req.	5.00

Stage 2:	From Depth (ft):	1324	To Depth (ft):	1922
Type: Balance plug	Volume (sacks):	40	Volume (bbls):	9.5
Cement & Additives:				
Type III			Density (ppg):	14.8
			Yield (ft ³ /sk):	1.33
			Water Req.	6.32

Stage 3:	From Depth (ft):	0	To Depth (ft):	685
Type: Surface plug	Volume (sacks):	50	Volume (bbls):	12
Cement & Additives:				
Type III			Density (ppg):	14.8
			Yield (ft ³ /sk):	1.33
			Water Req.	6.32

Stage 4:	From Depth (ft):	0	To Depth (ft):	500
Type: Squeeze	Volume (sacks):	135	Volume (bbls):	32
Cement & Additives:				
Type III			Density (ppg):	14.8
			Yield (ft ³ /sk):	1.33
			Water Req.	6.32

SUMMARY

Preflushes:	5 bbls of Fresh Water	Calculated Displacement (bbl):	Stage 1: 24.8	Stage 2: 5.1
	5 bbls of Fresh Water	Actual Displacement (bbl):	24.8	5.1
	5 bbls of Fresh Water			
Total Preflush/Spacer Volume (bbl):	15	Plug Bump (Y/N):		Bump Pressure (psi):
Total Slurry Volume (bbl):	55.5	Lost Returns (Y/N):	N (if Y, when)	
Total Fluid Pumped	100.4			
Returns to Surface:	Cement 5 bbls			

Job Notes (fluids pumped / procedures / tools / etc.): Pumped 5 bbl of H₂O , 10 sx of class G cement at 15.8/1.15 and displaced with 24.8 bbl of H₂O to ETOC 6398' . Pulled tubing to 1922' , pumped 5 bbl of H₂O , 40 sx of type III cement at 14.8/1.33 and displaced 5.1 bbl to ETOC 1324' , pull tubing to 685' and pumped 5 bbl of H₂O , 50 sx type III cement at 14.8/1.33 to bring cement to surface , pulled tubing out and squeeze annulus with 135 sx of type cement at 14.8/1.33 from 500' through circ . holes to surface per customer request.

Customer Representative Signature: _____ **Thank You For Using CJES O-TEX Cementing**

Cement Job Log



Customer: PDC ENERGY	Date: 5/7/2019	Serv. Supervisor: Siarhei Dzmitryieff
Cust. Rep.: Eduardo Chavez	Ticket #: BCO-1905-0043	Serv. Center Brighton - 3021
Lease: Wells Ranch 12-36	API Well #: 05-123-26853	County: Weld State: CO
Well Type: Oil	Rig: Ensign 318	Type of Job: Plug to Abandon

OPEN HOLE DATA		TUBULAR DATA						
7.875 in. O.H. (463 to 6,524 ft)	4.5 in. 10.5#, (0 to 6,524 ft)	SIZE WEIGHT	THREAD	DEPTH (ft)	GRADE	ID (in)	BURST (psi)	COLLAPSE (psi)
		2.375 4.7#		6524		1.995		

PREVIOUS CASING DATA	PERFORATED INTERVAL DATA				CASING EQUIPMENT DEPTHS			
8.625 in. 24# (0 to 463 ft)	TOP	BTM	SPF	SIZE	SHOE	FLOAT	STAGE	ACP

WELL FLUID		DISPLACEMENT FLUID			DIFF PRESS (psi)	CSG LIFT (psi)	MAX PRESS (psi)	WATER ON LOC (bbl)
TYPE	DENSITY	VOLUME	TYPE	DENSITY				
Water	8.3 ppg	24.8 bbl	Water	8.3 ppg			1000	110

Time	Rate (bbl/min)	Csg. Press. (psi)	Tbg. Press. (psi)	Ann. Press. (psi)	Stg. Vol. (bbl)	Cum. Vol. (bbl)	Stage Details
7:00 AM						0	ARRIVE ON LOCATION
7:10 AM						0	SPOT EQUIPMENT
7:20 AM						0	RIG UP IRON AND HOSES
7:45 AM						0	PRE JOB SAFETY MEETING
7:55 AM	1.5		350			1	LOAD LINES TO TEST
7:56 AM			3000			1	TEST PUMP AND LINES TO 2000 PSI
7:58 AM	0.8		182			4	START H2O SPACER
8:08 AM	1.7		610			2	START 10 SX OF CLASS G AT 15.8/1.15
8:09 AM	2.5		490		24.8	31.8	START DISPLACEMENT
8:22 AM	0		0			31.8	SHUT DOWN
9:51 AM	2.8		264			5	36.8 START H2O SPACER
9:55 AM	2.5		217		9.5	46.3	START 40 SX OF TYPE III AT 14.8/1.33
9:59 AM	3		104		5.1	51.4	START DISPLACEMENT
10:01 AM						51.4	SHUT DOWN
10:28 AM	2.7		156			5	56.4 START H2O SPACER
10:30 AM	3		199			12	68.4 START 50 SX OF TYPE III AT 14.8/1.33
10:36 AM						68.4	SHUT DOWN (1 BBL OF CEMENT TO SURFACE)
11:13 AM	2.5		220		32	100.4	START 135 SX OF TYPE III AT 14.8/1.33
11:26 AM	0		0			100.4	SHUT DOWN (4 BBL OF CEMENT TO SURFACE)
11:40 AM							WASH UP
12:00 PM							RIG DOWN
12:30 PM							LEAVE LOCATION

Left Yard	5/10/19 5:30 AM	Left Loc.	5/10/19 12:30 PM	Start Pump	5/10/19 7:55 AM
Arrived Loc.	5/10/19 7:00 AM	Returned Yd.	5/10/19 2:00 PM	End Pump	5/10/19 11:40 AM

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 Pressure (psi)	Casing Rotation	Standby Charged (hrs)	Casing Reciprocation
			0	5	Surface	Yes	1000		1	

Siarhei Dzmitryieff								5/10/2019			
Service Supervisor								Date			

