

Cement Job Log



Customer:	PDC ENERGY	Date:	3/6/2019	Serv. Supervisor:	Rich Devine			
Cust. Rep.:	John Falton	Ticket #:	BCO-1903-0022	Serv. Center	Brighton - 3021			
Lease:	Popham 14N	API Well #:	05-123-47818	County:	Weld State: CO			
Well Type:	Oil	Rig:	Ensign 161	Type of Job:	Production Casing			
Materials Furnished by C&J ENERGY SERVICES								
Plugs	Casing Hardware	Physical Slurry Properties						
		Sacks of Cement	Fluid Dens (lb/gal)	Excess	Yield (cuft/sk)	Mix Water (gal/sk)	Fluid Volume (bbls)	Mix Water (bbls)
0								
0								
150 bbls ppg Weighted Spacer - 150 bbls	+10.0 PPB CJ890+222.16 PPB CJ300+1.0 PPB CJ209+0.5 PPB CJX157011+8.1 PPB CJ801		12.5				150.00	
C&J Non Latex Lead 1-1	50 % CJ914+50 % CJ010-74 +2.0 % CJ020+0.4 % CJ548+0.3 % CJ240+10.0 % CJ041+0.3 % CJX157011	25	14		1.37	5.98	6.08	4
C&J Latex Lead 1-1	50 % CJ914+50 % CJ010-74 +2.0 % CJ020+0.4 % CJ548+0.3 % CJ240+10.0 % CJ041+0.3 % CJX157011+1.0 GPS CJ550L+0.2 GPS CJ891	755	14		1.37	4.71	183.66	85
C&J Tail 1-1	65 % CJ914+35 % CJ010-74 +0.3 % CJ704+0.15 % CJ210K+0.5 % CJ511	985	14.5		1.22	5.41	213.27	127
Displacement							269.67	
50 % CJ914+50 % CJ010-74+2.0 % CJ020								
Displacement Chemicals:								

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Cust. Rep.:	John Falton				Ticket #: BCO-1903-0022				Serv. Center Brighton - 3021					
Lease:	Popham 14N				API Well #: 05-123-47818				County:	Weld		State:	CO	
Well Type:	Oil				Rig: Ensign 161				Type of Job:		Production Casing			
OPEN HOLE DATA				TUBULAR DATA										
8.5 in. O.H. (1,633 to 12,202 ft)				5.5 in. 20#, (0 to 12,202 ft)		SIZE WEIGHT	THREAD	DEPTH (ft)	GRADE	ID (in)	BURST (psi)	COLLAPSE (psi)		
PREVIOUS CASING DATA				PERFORATED INTERVAL DATA										
9.625 in. 36# (0 to 1,633 ft)				TOP		BTM	SPF	SIZE						
				DIFF PRESS (psi)		CSG LIFT (psi)	MAX PRESS (psi)					WATER ON LOC (bbl)		
Time	Rate (bbl/min)	Csg. Press. (psi)	Tbg. Press (psi)	Ann. Press. (psi)	Stg. Vol. (bbl)	Cum. Vol. (bbl)	Stage Details							
3:00 AM						0	ARRIVE ON LOCATION							
3:10 AM						0	SPOT VEHICLES							
3:20 AM						0	RIG UP IRON AND EQUIPMENT							
4:00 AM						0	MIX LATEX MIX WATER							
7:15 AM						0	PRE JOB SAFETY BRIEF							
8:01 AM	1.5		110		5	5	LOAD LINES TO TEST							
8:10 AM			5000			5	PRESSURE TEST							
8:16 AM	4		350		5	10	START FRESH WATER SPACER							
8:20 AM	7.5		500		150	160	MIX/PUMP WEIGHTED SPACER @ 12.5 PPG							
8:50 AM	3		250		6	166	MIX/PUMP NON LATEX LEAD @ 14.0 PPG							
8:52 AM	8		475		184	350	MIX/PUMP LATEX LEAD @ 14 PPG							
9:19 AM	8		500		214	564	MIX PUMP TAIL CEMENT @14.5 PPG							
9:50 AM						564	SHUTDOWN / WASHUP PUMP/ DROP PLUG							
10:01 AM	8		1700		269	833	DISPLACE WITH TREATED WATER							
10:35 AM						833	PUMP PLUG							
10:36 AM						833	HOLD PRESSURE							
10:41 AM	2		3450		2	835	PRESSURE UP WELL TO OPEN WSS							
10:44 AM	4		1450		5	840	DISPLACE WITH TREATED WATER							
10:45 AM						840	SHUTDOWN / CHECK FLOATS							
10:50 AM						840	RIG OUT							
12:45 PM						840	AAR							
1:00 PM						840	LEAVE LOCATION							
						840								
						840								
Left Yard	3/6/19 2:01 AM			Left Loc.	3/6/19 1:00 PM			Start Pump		3/6/19 8:01 AM				
Arrived Loc.	3/6/19 3:00 AM			Returned Yd.	3/6/19 2:30 PM			End Pump		3/6/19 10:45 AM				
	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				
		No		N/A	2,281	Yes	5000	N/A	N/A	N/A				
							<div style="text-align: right;"> Rich Daire Service Supervisor </div>							
							<div style="text-align: right;"> 3 / 6 / 2019 Date </div>							