



Cement Job Log



Customer:	PDC ENERGY	Date:	4/1/2019	Serv. Supervisor:	Sam Cheal
Cust. Rep.:	Christopher McMullen	Ticket #:	BCO-1904-0009	Serv. Center	Brighton - 3021
Lease:	Jagged 1N	API Well #:	05-123-45878	County:	Weld State: CO
Well Type:	Oil	Rig:	Ensign 152	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								
80 bbls water + 1600 lbs SAPP	+20.0 PPB CJ890						80.00	
80 bbls ppg Weighted Spacer - 80 bbls of	+219.63 PPB CJ300+1.0 PPB CJ209+0.5 PPB CJ776+12.46 PPB CJ801		12.5				80.00	
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	1360	14.5		1.22	5.41	294.47	175
Displacement							313.29	
50 % CJ914+50 % CJ010-74+2.0 % CJ020								
Displacement Chemicals:								

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OPEN HOLE DATA		TUBULAR DATA						
SIZE	DEPTH (ft)	SIZE WEIGHT	THREAD	DEPTH (ft)	GRADE	ID (in)	BURST (psi)	COLLAPSE (psi)
8.5 in. O.H. (1,697 to 14,169 ft)	5.5 in. 20#, ( 0 to 14,169 ft)							

PREVIOUS CASING DATA		PERFORATED INTERVAL DATA				CASING EQUIPMENT DEPTHS			
SIZE	DEPTH (ft)	TOP	BTM	SPF	SIZE	SHOE	FLOAT		
9.625 in. 36# ( 0 to 1,697 ft)						14203	14175		

WELL FLUID		DISPLACEMENT FLUID			DIFF PRESS (psi)	CSG LIFT (psi)	MAX PRESS (psi)	WATER ON LOC (bbl)
TYPE	DENSITY	VOLUME	TYPE	DENSITY				
Mud	10.8 ppg	315.3 bbl	Water	8.3 ppg	2200		5000	1200

Time	Rate (bbl/min)	Csg. Press. (psi)	Tbg. Press. (psi)	Ann. Press. (psi)	Stg. Vol. (bbl)	Cum. Vol. (bbl)	Stage Details
1:00 AM						0	ARRIVE ON LOCATION
1:05 AM						0	SPOT EQUIPMENT
1:10 AM						0	RIG UP IRON AND HOSES
2:00 PM						0	MIX LATEX MIX WATER
4:00 AM						0	STANDBYE
6:15 AM						0	PRE JOB SAFETY MEETING
6:50 AM	4	500			5	5	LOAD LINES TO TEST
6:52 AM		5000				5	TEST PUMP AND LINES TO 5,000 PSI
6:56 AM	6	520			80	85	MIX / PUMP PRE-FLUSH (1600lbs SAPP)
7:15 AM	6	550			80	165	PUMP WEIGHTED SPACER @12.5ppg
7:30 AM	5	500			6.1	171.1	MIX / PUMP NON-LATEX LEAD CEMENT @14.0PPG
7:35 AM	8	800			184.2	355.3	MIX / PUMP LATEX LEAD CEMENT @14.0PPG
8:05 AM	8	880			295.5	650.8	MIX / PUMP TAIL CEMENT @14.5PPG
8:50 AM		0				650.8	SHUTDOWN / WASH PUMP UNIT / CLEAR LINES / DROP 2ND PLUG
9:06 AM	8	2500			315.3	966.1	DISPLACE WITH FRESH WATER
9:42 AM	5	2700				966.1	BUMP PLUG
9:43 AM		2100				966.1	HOLD PRESSURE
9:44 AM	1.5	3700			1.5	967.6	PRESSURE UP WELL / OPEN WSS
9:45 AM	4	2100			5	972.6	DISPLACE WITH FRESH WATER
9:48 AM		0					SHUTDOWN / CHECK FLOATS
11:00 AM							RIG OUT
1:50 PM							AAR / DISCUSS LEAVING LOCATION
2:00 PM							LEAVE LOCATION

Left Yard	4/1/19 12:10 AM	Left Loc.	4/1/19 2:00 PM	Start Pump	4/1/19 6:50 AM
Arrived Loc.	4/1/19 1:00 AM	Returned Yd.	4/1/19 3:00 PM	End Pump	4/1/19 9:45 AM


Sam Cheal Service Supervisor		Date
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