

Cement Job Log



Customer:	PDC ENERGY	Date:	4/6/2019	Serv. Supervisor:	Rich Devine
Cust. Rep.:	Chris McMullen	Ticket #:	BCO-1904-0018	Serv. Center:	Brighton - 3021
Lease:	Jagged 2N	API Well #:	05-123-45879	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 CJX157011+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	1340	14.5		1.22	5.41	290.13	173
Displacement							311.08	
50 % CJ914+50 % CJ010-74+2.0 % CJ020								
Displacement Chemicals:								

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Cust. Rep.: Chris McMullen	Ticket #: BCO-1904-0018	Serv. Center Brighton - 3021
Lease: Jagged 2N	API Well #: 05-123-45879	County: Weld State: CO
Well Type: Oil	Rig: Ensign 152	Type of Job: Production Casing

OPEN HOLE DATA		TUBULAR DATA						
8.5 in. O.H. (1,690 to 14,069 ft)	5.5 in. 20#, (0 to 14,069 ft)	SIZE WEIGHT	THREAD	DEPTH (ft)	GRADE	ID (in)	BURST (psi)	COLLAPSE (psi)

PREVIOUS CASING DATA		PERFORATED INTERVAL DATA				CASING EQUIPMENT DEPTHS			
9.625 in. 36# (0 to 1,690 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				

Time	Rate (bbl/min)	Csg. Press. (psi)	Tbg. Press. (psi)	Ann. Press. (psi)	Stg. Vol. (bbl)	Cum. Vol. (bbl)	Stage Details
4:04 PM						0	DEPART C&J YARD
5:15 PM						0	ARRIVE LOCATION
5:25 PM						0	SPOT VEHICLES
5:22 PM						0	RIG IN
9:30 PM						0	SAFETY BRIEF
9:59 PM	2		320		5	5	FILL LINES
10:03 PM			4828			5	PRESSURE TEST
10:07 PM	4		450		80	85	SAPP
10:23 PM	5		900		80	165	WEIGHTED SPACER @ 12.5
10:46 PM						165	SHUT DOWN / DROP 1ST PLUG
10:51 PM	2		100		6	171	MIX & PUMP NON LATEX LEAD @ 14.0
10:54 PM	4		200		184.2	355.2	MIX & PUMP LATEX LEAD CEMENT @ 14.0 PPG
11:56 PM	6		390		291	646.2	MIX & PUMP TAIL CEMENT @ 14.5 PPG
12:44 AM						646.2	SHUT DOWN / WASH PUMP / CLEAR LINES
1:03 AM						646.2	DROP 2ND PULG
1:05 AM	8		900		312.3	958.5	DISPLACEMENT FRESH WATER
1:53 AM						958.5	BUMP PLUG SHUTDOWN
1:58 AM						958.5	HOLD PRESSURE 5MIN
2:00 AM	4		1433		5	963.5	DISPLACEMENT FRESH WATER
2:03 AM						963.5	SHUTDOWN CHECK FLOATS
2:28 AM							RIG OUT
4:00 AM							DEPART LOCATION

Left Yard	4/8/19 4:04 PM	Left Loc.	1/0/00 12:00 AM	Start Pump	4/6/19 9:59 PM					
Arrived Loc.	4/6/19 5:15 PM	Returned Yd.	4:7/19 04:00	End Pump	4/7/19 2:02 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

Rich Devine					4/7/2019	
Service Supervisor					Date	