Cement Job Log

C&J ENERGY SERVICES

Customer: Confluence	**Date:** 8/20/2018	**Serv. Supervisor:** Larry Lasle
Cust. Rep.: Larry Webb	**Ticket #:** BCO-1808-0111	**Serv. Center** Brighton - 3021
Lease: Penrod 4-15 1	**API Well #:** 05-001-08266	**County:** Adams **State:** CO
Well Type: Oil	**Rig:** Brigade # 12	**Type of Job:** Squeeze Job

Materials Furnished by C&J ENERGY SERVICES

Plugs	Casing Hardware	Sacks of Cement	Fluid Dens (lb/gal)	Yield (cuft/sk)	Mix Water (gal/sk)	Fluid Volume (bbls)	Mix Water (bbls)
Fresh Water							
Squeeze cement	+100% CJ914 +.2% CJFCP013	120	15.8	1.15	4.99	24.56	14
0							
0							
Displacement Chemicals:							

OPEN HOLE DATA	TUBULAR DATA	SIZE WEIGHT	THREAD	DEPTH (ft)	GRADE	ID (in)	BURST (psi)	COLLAPSE (psi)
#N/A	#N/A	2.0625						

PREVIOUS CASING DATA	PERFORATED INTERVAL DATA TOP	BTM	SPF	SIZE	CASING EQUIPMENT DEPTHS SHOE	FLOAT	STAGE	ACP
#N/A								

WELL FLUID TYPE	DENSITY	DISPLACEMENT FLUID VOLUME	TYPE	DENSITY	DIFF PRESS (psi)	CSG LIFT (psi)	MAX PRESS (psi)	WATER ON LOC (bbl)
							2500	100

Time	Rate (bbl/min)	Csg. Press. (psi)	Tbg. Press (psi)	Ann. Press. (psi)	Stg. Vol. (bbl)	Cum. Vol. (bbl)	Stage Details
1:00 PM						0	Arrived On Location
1:05 PM						0	Spot Trucks
1:10 PM						0	Rig In Iron
2:23 PM						0	Safty Meeting
2:40 PM	1.5		900		1	1	Fill Lines
2:41 PM	.5		3000		0.5	1.5	Pressure Test
2:43 PM	1.7		1700		10	11.5	START FRESH WATER SPACER
2:48 PM	1.5		1600		10	21.5	100# SAPP
2:56 PM	1.5		1880		5	26.5	Fresh Spacer
3:00 PM	1.5		2200		24.5	51	START LEAD SLURRY 120 sx @ 15.8
3:18 PM	1.5		1770		19.5	70.5	DISPLACEMENT
3:35 PM						70.5	Rig Off Well
4:15 PM						70.5	Wash Up Pump
4:30 PM						70.5	Rig Out Iron
5:00 PM						70.5	Leave Location
						70.5	
						70.5	
						70.5	
						70.5	
						70.5	
						70.5	
						70.5	
						70.5	
						70.5	

Left Yard		Left Loc.		Start Pump	
Arrived Loc.		Returned Yd.		End Pump	

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)

Service Supervisor Date

Cement Job Log

C&J ENERGY SERVICES

Customer: Confluence	**Date:** 8/21/2018	**Serv. Supervisor:**
Cust. Rep.: Larry Webb	**Ticket #:** BCO-1808-0112	**Serv. Center** Brighton - 3021
Lease: Penrod 4-15 1	**API Well #:** 05-001-08266	**County:** Adams **State:** CO
Well Type: Oil	**Rig:** Brigade # 12	**Type of Job:** Squeeze Job

Materials Furnished by C&J ENERGY SERVICES

Plugs	Casing Hardware	Sacks of Cement	Fluid Dens (lb/gal)	Yield (cuft/sk)	Mix Water (gal/sk)	Fluid Volume (bbls)	Mix Water (bbls)
Fresh Water							
Squeeze 2	+100% CJ914	55	15.8	1.15	5.00	11.24	7
Plug	+100% CJ914	20	15.8	1.15	5.00	4.09	2
0							

Displacement Chemicals:

OPEN HOLE DATA	TUBULAR DATA	SIZE WEIGHT	THREAD	DEPTH (ft)	GRADE	ID (in)	BURST (psi)	COLLAPSE (psi)
6.625 in. O.H. 0 to 2,500 ft		2.1/16		2450				
				1426				

PREVIOUS CASING DATA	PERFORATED INTERVAL DATA TOP	BTM	SPF	SIZE	CASING EQUIPMENT DEPTHS SHOE	FLOAT	STAGE	ACP

WELL FLUID TYPE	DENSITY	DISPLACEMENT FLUID VOLUME	TYPE	DENSITY	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
12:00 PM						0	ARRIVE ON LOCATION
12:05 PM						0	SPOT EQUIPMENT
12:10 PM						0	RIG UP IRON AND HOSES
12:20 PM						0	PRE JOB SAFETY MEETING
12:35 PM	1.2		500		1	1	LOAD LINES TO TEST
12:36 PM	.5		3000		0.5	1.5	TEST PUMP AND LINES TO 3000 PSI
12:37 PM	1.2		700		10	11.5	START FRESH WATER SPACER
12:40 PM						11.5	BATCH SLURRY 55sx @ 15.8 PPG / VERIFIED WITH SCALES
12:47 PM	1.5		780		10.2	21.7	START SLURRY
12:58 PM	1.5		408		6.3	28	DISPLACEMENT
1:00 PM	.5		0		1	29	Sting Out Retainer 1bbl Slurry above retainer
1:05 PM						29	Rig Off Well
2:23 PM						29	Plug #2
2:26 PM	1.5		70		10	39	Fresh Spacer
2:31 PM	1.5		65		4	43	Mix & Pump 20sx @ 15.8
2:33 PM	1.5		45		2.6	45.6	DISPLACEMENT
2:35 PM						45.6	Rig Off Well
2:45 PM						45.6	Wash Up Pump
3:15 PM						45.6	Rig Out Iron
3:30 PM						45.6	Predeparture
3:35 PM						45.6	Leave Location
						45.6	
						45.6	
						45.6	

Left Yard	8/21/18 11:15 AM	Left Loc.		Start Pump	
Arrived Loc.	8/21/18 12:00 PM	Returned Yd.		End Pump	

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)
				0	966		700		

Larry Laslie — Service Supervisor

8/21/2018 — Date

Cement Job Log

C&J ENERGY SERVICES

Customer: Confluence	**Date:** 8/22/2018	**Serv. Supervisor:** Larry Laslie
Cust. Rep.: Larry Webb	**Ticket #:** BCO-1808-0113	**Serv. Center** Brighton - 3021
Lease: Penrod 4-15 1	**API Well #:** 05-001-08266	**County:** Adams **State:** CO
Well Type: Oil	**Rig:** N/A	**Type of Job:** Plug to Abandon

Materials Furnished by C&J ENERGY SERVICES

Plugs	Casing Hardware	Sacks of Cement	Fluid Dens (lb/gal)	Yield (cuft/sk)	Mix Water (gal/sk)	Fluid Volume (bbls)	Mix Water (bbls)
0 - Fresh							
0 - Plug	+100% CJ914	80	15.8	1.15	5.00	16.35	10
0							
0							

Physical Slurry Properties

Displacement Chemicals:

OPEN HOLE DATA	TUBULAR DATA	SIZE WEIGHT	THREAD	DEPTH (ft)	GRADE	ID (in)	BURST (psi)	COLLAPSE (psi)
#N/A	#N/A	2 1/16 9.3		780				

PREVIOUS CASING DATA	PERFORATED INTERVAL DATA				CASING EQUIPMENT DEPTHS			
#N/A	TOP	BTM	SPF	SIZE	SHOE	FLOAT	STAGE	ACP

WELL FLUID TYPE	WELL FLUID DENSITY	DISPLACEMENT FLUID VOLUME	DISPLACEMENT FLUID TYPE	DISPLACEMENT FLUID DENSITY	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
8:00 AM						0	Arrived On Location
8:05 AM						0	Spot Trucks
8:10 AM						0	RIG UP IRON AND HOSES
9:20 AM						0	PRE JOB SAFETY MEETING
9:26 AM	1.5		35		1	1	LOAD LINES TO TEST
9:27 AM	.5		2000		0.5	1.5	TEST PUMP AND LINES TO 2000 PSI
9:29 AM	1.5		30		5	6.5	START FRESH WATER SPACER
9:31 AM						6.5	BATCH LEAD SLURRY @ 15.8 PPG / VERIFIED WITH SCALES
9:34 AM	2		30		12	18.5	START LEAD SLURRY
10:15 AM	.5		10		3	21.5	Top Off Well
10:45 AM						21.5	Rig Off
10:50 AM						21.5	Wash Up Pump
11:10 AM						21.5	Rig Out Iron
11:30 AM						21.5	Predeparture meeting
11:45 AM						21.5	Leave Location
						21.5	
						21.5	
						21.5	
						21.5	
						21.5	
						21.5	
						21.5	
						21.5	
						21.5	

Left Yard	8/22/18 7:30 AM	Left Loc.	8/22/18 11:45 AM	Start Pump	8/22/18 9:26 AM
Arrived Loc.	8/22/18 8:00 AM	Returned Yd.	8/22/18 12:15 PM	End Pump	8/22/18 10:45 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)
				15.5	0				

Larry Laslie — Service Supervisor

8/ 22/ 2018 — Date