



Job Summary

Ticket Number	Ticket Date
TN# BCO-1901-0148	1/27/2019

COUNTY	COMPANY	API Number
Weld	NGL Water Solutions DJ, LLC	05-123-47682
WELL NAME	RIG	JOB TYPE
South Weld SWD #1	Patterson 346	Surface Casing
SURFACE WELL LOCATION	CJES Field Supervisor	CUSTOMER REP
40.02506 -104.81654	Barlen Joyner	Red Benge

EMPLOYEES
<i>Cori White</i>
<i>Serge Dimitri</i>
<i>Francisco Flores</i>

WELL PROFILE			
Max Treating Pressure (psi):	2500	Bottom Hole Static Temperature (°F):	
Bottom Hole Circulating Temperature (°F):		Well Type:	

Open Hole

1	Size (in)	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)
	13 1/2	0	1235		
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	10 3/4	40.5	J-55	0	1214		
Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)
Conductor	16	42.05		0	80		
Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)

CEMENT DATA

Stage 1:

Type: **Lead**

From Depth (ft):

0

To Depth (ft):

763

Volume (sacks):

185

Volume (bbls):

78

Cement & Additives:	Density (ppg)	Yield (ft³/sk)	Water Req.
100% III + ads	12.5	2.13	12.08

Stage 2:

Type: Tail

From Depth (ft):

763

To Depth (ft):

1214

Volume (sacks):

140

Volume (bbls):

35

Cement & Additives:	Density (ppg)	Yield (ft³/sk)	Water Req
100% III + ads	13	1.90	10.38

SUMMARY

	Stage 1	Stage 2
Preflushes:		
20 bbls of Fresh Water	Calculated Displacement (bbl): 114.5	
10 bbls of Dye	Actual Displacement (bbl): 112	
_____ bbls of _____		
Total Preflush/Spacer Volume (bbl): 30	Plug Bump (Y/N): Y	Bump Pressure (psi): 421
Total Slurry Volume (bbl): 113	Lost Returns (Y/N): N	(if Y, when) N/A
Total Fluid Pumped 255		
Returns to Surface: Cement	25 bbls	

Job Notes (fluids pumped / procedures / tools / etc.):

See job log.

Thank You For Using
CJES O-TEX Cementing

Customer Representative Signature: _____

Cement Job Log

C&J ENERGY SERVICES												
Customer: NGL Water Solutions DJ, LLC				Date: 1/27/2019				Serv. Supervisor: Barlen Joyner				
Cust. Rep.: Red Benge				Ticket #: BCO-1901-0148				Serv. Center: Brighton - 3021				
Lease: South Weld SWD #1				API Well #: 05-123-47682				County: Weld		State: CO		
Well Type: Injection				Rig: Patterson 346				Type of Job: Surface 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)
Fresh Water											20.00	
Red Dye + Fresh water											10.00	
Lead		100 % CJ922 +2.0 % CJ101+2.0 % CJ110+0.25 PPS CJ600				205	12.5		2.13	12.08	77.62	59
Tail		100 % CJ922 +2.0 % CJ101+2.0 % CJ110+0.25 PPS CJ600				100	13		1.90	10.38	33.80	25
Displacement							8.34				114.50	
Displacement Chemicals:												
OPEN HOLE DATA		TUBULAR DATA										
13 1/2 from 80' to 1235'		N/A		SIZE WEIGHT	THREAD	DEPTH (ft)	GRADE	ID (in)	BURST (psi)	COLLAPSE (psi)		
				10 3/4 40.5#	BTC	1214	J-55	10.05	1580	3130		
PREVIOUS CASING DATA		PERFORATED INTERVAL DATA				CASING EQUIPMENT DEPTHS						
16 42.05# from 0' to 80'		TOP		BTM	SPF	SIZE	SHOE	FLOAT	STAGE	ACP		
				N/A			1214	1167				
WELL FLUID		DISPLACEMENT FLUID			DIFF PRESS (psi)	CSG LIFT (psi)	MAX PRESS (psi)			WATER ON LOC (bbl)		
TYPE	DENSITY	VOLUME	TYPE	DENSITY								
Mud		114.5 bbl	Water	8.3 ppg	255	Must be secured	2500			800		
Time	Rate (bbl/min)	Csg. Press. (psi)	Tbg. Press. (psi)	Ann. Press. (psi)	Stg. Vol. (bbl)	Cum. Vol. (bbl)	Stage Details					
7:09 AM							0 Arrive on location / sign in					
7:10 AM							0 Wait for rig to spot casing on the racks					
8:00 AM							0 Spot trucks					
8:20 AM							0 Rig in					
9:00 AM							0 Wait for rig to run casing					
2:45 PM							0 Safety meeting					
3:06 PM		3119					0 Pressure test					
3:08 PM	4	64			20	20	Fresh water spacer					
3:12 PM	4	67			10	30	Red Dye + Fresh water spacer					
3:16 PM	7.4	276			78	98	Mix, weigh & pump 185sx Lead @ 12.5ppg - Lead from 0' to 763'					
3:29 PM	6.6	227			35	133	Mix, weigh & pump 140sx Lead @ 13ppg - Tail from 763' to 1214'					
3:38 PM						133	Stop / drop top plug					
3:40 PM	6	131			58	191	Start displacement					
3:55 PM	6	403			40	231	Catch cement					
4:01 PM	4.1	318			14	245	Drop rate					
4:06 PM	4.1	421				245	Bump plug					
4:06 PM		920				245	Plug down @ 112 bbls					
4:08 PM						245	Bleed off & check floats - 0.75 bbls back					
4:15 PM						245	Rig out					
5:00 PM						245	Leave location					
						245						
						245						
						245						
						245						
						245						
						245						
						245						
Left Yard	1/27/19 6:58 AM			Left Loc.	1/27/19 5:00 PM			Start Pump		1/27/19 3:08 PM		
Arrived Loc.	1/27/19 7:09 AM			Returned Yd.	1/27/19 5:10 PM			End Pump		1/27/19 4:06 PM		
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		
Yes	421	Yes	0	25	0	Yes	276	N/A	0	N/A		
							Barlen Joyner		1/27/2019			
							Service Supervisor		Date			

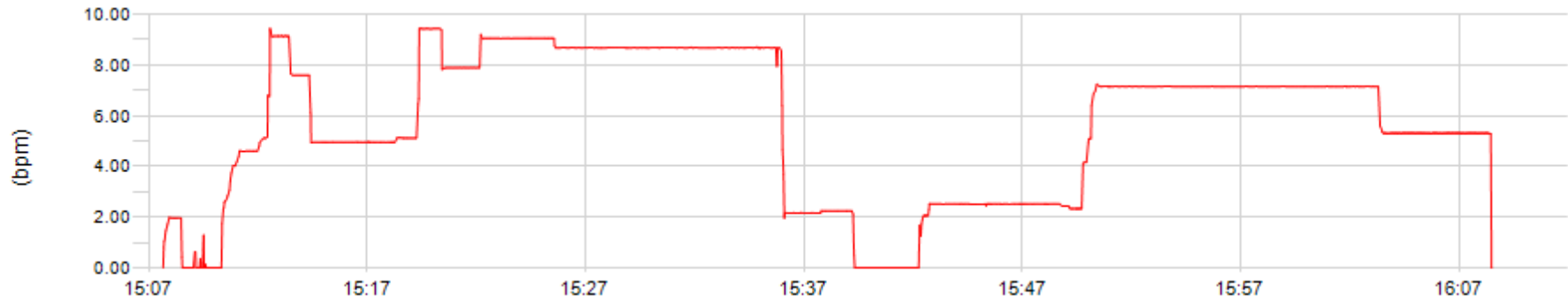


Client NGL
Ticket No. 19010148
Location SW NE 30:1N:66W
Comments 205sx Lead @ 12.5ppg & 100sx Tail @ 13ppg

Client Rep Red Binge
Well Name South Weld SWD #1
Job Type Surface Casing

Supervisor Barlen Joyner
Unit No. 445067
Service District Brighton
Job Date 01/27/2019

Unit 445067 Rate Total



Unit 445067 Pump Pressure



Unit 445067 Density

