

Job Summary

Ticket Number	Ticket Date
TN# BCO-1809-0067	9/15/2018

COUNTY	COMPANY	API Number
Weld	PDC ENERGY	05-123-45738
WELL NAME	RIG	JOB TYPE
Judy 6S-302	Ensign 158	Production Casing
SURFACE WELL LOCATION	CJES Field Supervisor	CUSTOMER REP
40.34065 -104.58711	Derek Scott	Jeremy Stolz

EMPLOYEES

WELL PROFILE			
Max Treating Pressure (psi):		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)
	8.5	1673'	17604'		
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	9.625	36		0'	1673'		
Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)
Production	5.5	20		0'	17601'		
Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)

CEMENT DATA

Stage 1:	From Depth (ft):	2355'	To Depth (ft):	7012'
Type: Lead cement	Volume (sacks):	780	Volume (bbls):	190
	Cement & Additives:	Density (ppg)	Yield (ft³/sk)	Water Req.

Stage 2:	From Depth (ft):	7012'	To Depth (ft):	17601'
Type: Tail cement	Volume (sacks):	2005	Volume (bbls):	432
	Cement & Additives:	Density (ppg)	Yield (ft³/sk)	Water Req.

Stage 3:	From Depth (ft):		To Depth (ft):	
Type:	Volume (sacks):		Volume (bbls):	
	Cement & Additives:	Density (ppg)	Yield (ft³/sk)	Water Req.

Stage 4:	From Depth (ft):		To Depth (ft):	
Type:	Volume (sacks):		Volume (bbls):	
	Cement & Additives:	Density (ppg)	Yield (ft³/sk)	Water Req.

SUMMARY

Preflushes:	100 bbls of Weighted Spacer	Calculated Displacement (bbl):	389.9	Stage 1	Stage 2
	bbls of	Actual Displacement (bbl):	389.9		
	bbls of				
Total Preflush/Spacer Volume (bbl):	100	Plug Bump (Y/N):	Y	Bump Pressure (psi):	3000
Total Slurry Volume (bbl):	522	Lost Returns (Y/N):	N	(if Y, when)	
Total Fluid Pumped	1011.9				
Returns to Surface:	Cement	0 bbls			



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

Job notes go here!

Thank You For Using
CJES O-TEX Cementing

Customer Representative Signature:

Cement Job Log

											
Customer: PDC ENERGY				Date: 9/15/2018				Serv. Supervisor: Derek Scott			
Cust. Rep.: Jeremy Stolz				Ticket #: BCO-1809-0067				Serv. Center: Brighton - 3021			
Lease: Judy 6S-302				API Well #: 05-123-45738				County: Weld		State: CO	
Well Type: Oil				Rig: Ensign 158				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)	Yield (cuft/sk)	Mix Water (gal/sk)	Fluid Volume (bbls)	Mix Water (bbls)
0											
20 bbls diesel											
Weighted Spacer - 100 bbls of 12.5 ppg Weight		+2 GPB CJ885+0.5 GPB CJFCPC25+221.03 PPB CJ300+1 PPB CJ209+0.5 PPB CJ776					12.5				
Non Latex Lead		+50% CJ914 +50% CJ010-74 +2.0% CJ020+.4% CJ548+.3% CJ240+10.0% CJ041+.3% CJX157011				25	14	1.37	5.98	6.08	4
Latex Lead		+50% CJ914 +50% CJ010-74 +2.0% CJ020+.4% CJ548+.3% CJ240+10.0% CJ041+.3% CJX157011				755	14	1.37	4.79	183.83	86
Tail		+65% CJ914 +35% CJ010-74 +.3% CJ704+.15% CJFCP013+.5% CJ511				2005	14.5	1.21	5.40	433.84	258
Displacement							8.34				
+50% CJ914 +50% CJ010-74+2.0% CJ020+.4%											
Displacement Chemicals:											
OPEN HOLE DATA		TUBULAR DATA									
8.5" OH (1673' to 17604')		5.5" 20# (0' to 17601')		SIZE WEIGHT	THREAD	DEPTH (ft)	GRADE	ID (in)	BURST (psi)	COLLAPSE (psi)	
				5.5" 20#		17601					
PREVIOUS CASING DATA		PERFORATED INTERVAL DATA				CASING EQUIPMENT DEPTHS					
9.625" 36# (0' to 1673')		TOP		BTM	SPF	SIZE	SHOE	FLOAT	STAGE	ACP	
							17601	17563			
WELL FLUID		DISPLACEMENT FLUID			DIFF PRESS (psi)	CSG LIFT (psi)	MAX PRESS (psi)				WATER ON LOC (bbl)
TYPE	DENSITY	VOLUME	TYPE	DENSITY							
Oil based	10#		Water	8.3 ppg			3000				1000
Time	Rate (bbl/min)	Csg. Press. (psi)	Tbg. Press. (psi)	Ann. Press. (psi)	Stg. Vol. (bbl)	Cum. Vol. (bbl)	Stage Details				
6:00 PM						0	Arrive on location				
6:05 PM						0	Tailgate meeting				
6:15 PM						0	Batch up latex				
10:00 PM						0	Rig in				
11:00 PM						0	Wait for rig to finish circulating				
12:45 AM						0	Safety meeting				
1:17 AM	4		310		3	3	Fill lines				
1:18 AM			5000			3	Pressure test				
1:20 AM						3	Start pumping barite - could not get rate from batch mixer				
2:13	6		150		100	103	Got batch mixer working - finished pumping barite				
2:30 AM	4.3		170		190	293	Pump 780sx Lead @ 14.0ppg				
3:15 AM	7.75		500		432	725	Pump 2005sx Tail @ 14.5ppg				
4:23 AM						725	Stop/Wash lines/Drop plug				
4:33 AM	7		2400		370	1095	Displace with fresh water				
5:23 AM	5.2		2500		19.9	1114.9	Slow down				
5:27 AM			3000			1114.9	Bump plug/Casing test				
5:31 AM	4		4000		6	1120.9	Open shoe				
5:34 AM	4		2400		5	1125.9	Pump wet shoe				
5:36 AM						1125.9	Stop/Check floats - 1.5bbls back				
5:40 AM						1125.9	Rig down				
6:00 AM						1125.9	Pre-departure meeting				
6:05 AM						1125.9	Leave location				
						1125.9					
						1125.9					
Left Yard	9/14/18 5:00 PM			Left Loc.	9/15/18 6:05 AM		Start Pump	9/15/18 1:17 AM			
Arrived Loc.	9/14/18 6:00 PM			Returned Yd.	9/15/18 7:00 AM		End Pump	9/15/18 5:34 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)		
Yes	2400	Yes	0	0	2355'	Yes	3000	No	0		
											
							Service Supervisor Date				