

 <small>OC_1-BCO_190606091048-JLPjob 1.xlsmj</small>	PDC ENERGY	YARD CALL	6/12/2019		DISTRICT Brighton
	Lindsey 10C	RTS DATE	6/12/2019		
		YARD RTN	6/12/2019		

Personnel/Equipment				
Driver	Assignment	Tractor	Trailer	Comments
Jeff K		131152	449088	
Francisco C			pickup	
Ryan A			445052	
Vernon F			transport	
Justin L			445046	

BLEND INFO <small>OC_1-BCO_190606091048-JLPjob 1.xlsmjMain</small>					
Amount	Units	System/Additives	Density (ppg)	Yield (cuft/sk)	Water Req. (gal/sk)
0	SX	0			
0.00					
0.00	SX	80 bbls water + 1600 lbs SAPP			
80.00	bbl	+20.0 PPB CJ890			
0	SX	80 bbls ppg Weighted Spacer - 80 bbls of 12.5 ppg Weighted Spacer: 66.3 bbl Fresh Water + 17570 lbs Barite + 80 lbs Citric Acid + 997 lbs MS Spacer + 40 lbs X-Air			
80.00	bbl	+219.63 PPB CJ300+1.0 PPB CJ209+0.5 PPB CJX157011+12.46 PPB CJ801	12.5		
25	SX	C&J Non Latex Lead 1-1			
0.00		50 % CJ914+50 % CJ010-74 +2.0 % CJ020+0.4 % CJ548+0.3 % CJ240+10.0 % CJ041+0.3 % CJX157011	14	1.37	5.98
755	SX	C&J Latex Lead 1-1			
183.60	bbl	50 % CJ914+50 % CJ010-74 +2.0 % CJ020+0.4 % CJ548+0.3 % CJ240+10.0 % CJ041+0.3 % CJX157011+0.2 GPS CJ891	14	1.37	4.71
1835	SX	C&J Tail 1-1			
396.45	bbl	65 % CJ914+35 % CJ010-74 +0.3 % CJ704+0.15 % CJ210K+0.5 % CJ511	14.5	1.22	5.41
0	SX	Displacement			
0	SX				
0	SX				
0	SX				
369.29	bbl				



Job Summary

Ticket Number	Ticket Date
TN# BCO-1906-0040	6/12/2019

COUNTY	COMPANY	API Number
Weld	PDC ENERGY	05-123-48988
WELL NAME	RIG	JOB TYPE
Lindsey 10C	Ensign 161	Production Casing
SURFACE WELL LOCATION	CJES Field Supervisor	CUSTOMER REP
40.33507 -104.49115	Jeff Kopp	Tony Barrientos

EMPLOYEES		

WELL PROFILE			
Max Treating Pressure (psi):	4500	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	1630	16688		
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 5/8	36		0	1630		
Production	5.5	20		0	16688		

CEMENT DATA

Stage 1:	From Depth (ft):	2500	To Depth (ft):	7000
Type: Lead	Volume (sacks):	780	Volume (bbls):	190
Cement & Additives:		Density (ppg)	Yield (ft ³ /sk)	Water Req.
		14	1.37	6.00

Stage 2:	From Depth (ft):	7000	To Depth (ft):	16688
Type: Tail	Volume (sacks):	1835	Volume (bbls):	398
Cement & Additives:		Density (ppg)	Yield (ft ³ /sk)	Water Req.
		14.5	1.22	5.41

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

Stage 4:	From Depth (ft):		To Depth (ft):	
Type:	Volume (sacks):		Volume (bbls):	
Cement & Additives:		Density (ppg)	Yield (ft ³ /sk)	Water Req.

SUMMARY

Preflushes:	80 bbls of SAPP	Calculated Displacement (bbl):	370	Stage 1	Stage 2
	80 bbls of Weighted Spacer	Actual Displacement (bbl):	370		
Total Preflush/Spacer Volume (bbl):	160	Plug Bump (Y/N):	Y	Bump Pressure (psi):	2697
Total Slurry Volume (bbl):	588	Lost Returns (Y/N):	N	(if Y, when)	
Total Fluid Pumped	748				
Returns to Surface:	Spacer	40 bbls			

Job Notes (fluids pumped / procedures / tools / etc.): Job pumped per customers request. Job went well.

Thank You For Using
CJES O-TEX Cementing

Customer Representative Signature: _____

Cement Job Log



Customer:	PDC ENERGY	Date:	6/12/2019	Serv. Supervisor:	Jeff Kopp
Cust. Rep.:	Tony Barrientos	Ticket #:	BCO-1906-0040	Serv. Center	Brighton - 3021
Lease:	Lindsey 10C	API Well #:	05-123-48988	County:	Weld State: CO
Well Type:	Oil	Rig:	Ensign 161	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+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	1835	14.5		1.22	5.41	397.31	236
Displacement							369.29	
50 % CJ914+50 % CJ010-74+2.0 % CJ020								
Displacement Chemicals:								

Cement Job Log



Customer:	PDC ENERGY	Date:	6/12/2019	Serv. Supervisor:	Jeff Kopp
Cust. Rep.:	Tony Barrientos	Ticket #:	BCO-1906-0040	Serv. Center:	Brighton - 3021
Lease:	Lindsey 10C	API Well #:	05-123-48988	County:	Weld State: CO
Well Type:	Oil	Rig:	Ensign 161	Type of Job:	Production Casing

OPEN HOLE DATA		TUBULAR DATA						
8.5 in O.H (1654 to 16691ft)	5.5 in 20# (0 to 16688ft)	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 1,654 ft)	TOP	BTM	SPF	SIZE	SHOE	FLOAT	STAGE	ACP	
					16657				

WELL FLUID		DISPLACEMENT FLUID			DIFF PRESS (psi)	CSG LIFT (psi)	MAX PRESS (psi)	WATER ON LOC (bbl)
TYPE	DENSITY	VOLUME	TYPE	DENSITY			4500	1000

Time	Rate (bbl/min)	Csg. Press. (psi)	Tbg. Press. (psi)	Ann. Press. (psi)	Stg. Vol. (bbl)	Cum. Vol. (bbl)	Stage Details
12:00 AM						0	ARRIVE ON LOCATION
12:05 AM						0	PRE JOB SAFETY MEETING
12:15 AM						0	SPOT EQUIPMENT
3:30 AM						0	RIG UP IRON AND HOSES
4:42 AM						0	WAIT ON RIG TO CIRCULATE
7:30 AM						0	SAFETY MEETING
7:48 AM	4	500			3	3	FILL LINES
7:50 AM		5000				3	PRESSURE TEST
7:55 AM	5	314			80	83	SAPP
8:12 AM	7	969			80	163	WEIGHTED SPACER 12.5PPG
8:25 AM						163	SHUT DOWN
8:26 AM						163	DROP PLUG
8:27 AM	7	882			180	343	MIX AND PUMP 780SXS @14PPG 1.37Y 6.0WR
8:58 AM	8	506			398	741	PUMP 1835SXS @14.5PPG 1.22Y 5.41WR
10:00 AM						741	SHUT DOWN
10:03 AM						741	WASH UP PUMPS AND LINES
10:14 AM						741	DROP PLUG
10:15 AM	8	2059			370	1111	DISPLACE
11:03 AM		2697				1111	BUMP PLUG
11:04 AM	2	3394			1.5	1112.5	BURST DISK
11:05 AM	4	1789			5	1117.5	FRESH
11:06 AM							CHECK FLOATS
11:08 AM							RIG OUT
12:00 PM							LEAVE LOCATION

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)	Casing Reciprocation	
		Yes	0	0	2500	Yes	4500		4		

Jeff Kopp					
Service Supervisor					
Date					