



5.5" Production

Cement Post Job Report

Prepared For: Mr. Mike Schweizer
Prepared Date: 6/6/2017
Job Date: 6/3/2017

PDC Energy, Inc.

Elbert 11N

Weld County, CO

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Job Summary

Ticket Number		Ticket Date
TN#	FL1795	6/3/2017

COUNTY	COMPANY	API Number
Weld	PDC Energy, Inc.	05-123-44405
WELL NAME	RIG	JOB TYPE
Elbert 11N	Ensign 160	Production
SURFACE WELL LOCATION	O-TEX Field Supervisor	CUSTOMER REP
NW SW 21 5N 65W	Laeger, Kacey	Jeremy Stolz

EMPLOYEES		
	Watkins, Robert	
McFarland, James	0	
	Roark, Kenneth	

WELL PROFILE			
Max Treating Pressure (psi):		Bottom Hole Static Temperature (°F):	210
Bottom Hole Circulating Temperature (°F):		Well Type:	Oil

Open Hole

1	Size (in)	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)
	1640	1640	16671		
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	J-55	0	1640		
Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)
Production	5.5	20	P-110	0	16671		
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):	0	To Depth (ft):	0
Type: Weighted Spacer	Volume (sacks):	170	Volume (bbls):	40
Cement & Additives:		Density (ppg)	Yield (ft³/sk)	Water Req.
100% Poz F+0.1% WG-4P		12.5	1.29	5.91

Stage 2:	From Depth (ft):	0	To Depth (ft):	1389
Type: Lead	Volume (sacks):	790	Volume (bbls):	194
Cement & Additives:		Density (ppg)	Yield (ft³/sk)	Water Req.
100% 50:50:0(POZ:Type III:GEL)+0.3% ASM-3+2% FWC-2+0.5% FL-17+0.4% C-20		13.5	1.38	6.54

Stage 3:	From Depth (ft):	1389	To Depth (ft):	16671
Type: Tail	Volume (sacks):	1950	Volume (bbls):	625
Cement & Additives:		Density (ppg)	Yield (ft³/sk)	Water Req.
100% 35:65:0(POZ:G:GEL)+25% Silica Flour+0.3% ASM-3+0.5% FL-17+0.2% C-49		13.5	1.80	8.78

SUMMARY

Preflushes:	40 bbls of	Mudflush	Calculated Displacement (bbl):	Stage 1	Stage 2
	40 bbls of	Weighted Spacer	Actual Displacement (bbl):	369.5	
	10 bbls of	Fresh Water		369.5	
Total Preflush/Spacer Volume (bbl):	90	Plug Bump (Y/N):	y	Bump Pressure (psi):	2634
Total Slurry Volume (bbl):	819	Lost Returns (Y/N):	n	(if Y, when)	
Total Fluid Pumped	1278.5				
Returns to Surface:	Cement	40 bbls			

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

Thank You For Using

O - TEX Pumping

Customer Representative Signature:

[illegible]