



5.5" Latex Production

Cement Post Job Report

Prepared For: Mr. Mike Schweizer
Prepared Date: 7/31/2018
Job Date: 7/31/2018

PDC Energy, Inc.

Ottenhoff 29R-323

Weld County, CO

Prepared By: Cody Michel
Phone: (303) 720-8081
Email: cody.michel@cjes.com

Job Summary

Ticket Number	Ticket Date
TN# FL4297	7/31/2018

COUNTY	COMPANY	API Number
Weld	PDC Energy, Inc.	05-123-43645
WELL NAME	RIG	JOB TYPE
Ottenhoff 29R-323	Ensign 161	Latex Production
SURFACE WELL LOCATION	O-TEX Field Supervisor	CUSTOMER REP
NENE 29 5N 64W	Joyner, Barlen	John Falton

EMPLOYEES
Watkins, Robert
Birge, Carl
Melgarejo, Eduardo

WELL PROFILE			
Max Treating Pressure (psi):	4500	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)
	8.5	1632	14077	1632	6747
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	1632	0	1632
Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)
Production	5.5	20		0	14072	0	6764
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):	2280	To Depth (ft):	2430
Type: Non-Latex Lead	Volume (sacks):	25	Volume (bbls):	6.1

Cement & Additives:	Density (ppg)	Yield (ft³/sk)	Water Req.
50% Class G+50% Poz F+2% Gel+0.4% C-17+0.3% CJ240+10% CSE-2+0.3% CF-41P	14	1.37	6.06

Stage 2:	From Depth (ft):	2430	To Depth (ft):	6954
Type: Latex Lead	Volume (sacks):	740	Volume (bbls):	184.5

Cement & Additives:	Density (ppg)	Yield (ft³/sk)	Water Req.
50% Class G+50% Poz F+2% Gel+0.4% C-17+0.3% CJ240+10% CSE-2+0.3% CF-41P+1-GPS LL001+0.2-GPS LLS01+0.07-GPS CF-41L	14	1.40	4.97

Stage 3:	From Depth (ft):	6954	To Depth (ft):	14072
Type: Tail	Volume (sacks):	1340	Volume (bbls):	291.2

Cement & Additives:	Density (ppg)	Yield (ft³/sk)	Water Req.
65% Class G+35% Poz F+0.3% ASM-3+0.15% C-20+0.5% FL-17	14.5	1.22	5.41

SUMMARY

Preflushes:	80 bbls of	SAPP	Calculated Displacement (bbl):	311.3	Stage 1	Stage 2
	20 bbls of	Fresh Water	Actual Displacement (bbl):	311.5		
	80 bbls of	Weighted Spacer				
Total Preflush/Spacer Volume (bbl):	180		Plug Bump (Y/N):	Y	Bump Pressure (psi):	2188
Total Slurry Volume (bbl):	498		Lost Returns (Y/N):	N/A (if Y, when)	N/A	
Total Fluid Pumped	989.5					
Returns to Surface:	Preflush	70 bbls				

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

See job log.

Thank You For Using
O-TEX Cementing

Customer Representative Signature:

<div><div><div>C&J ENERGY SERVICES</div><div>O-TEX CEMENTING</div></div><div>CEMENTING JOB LOG</div></div>					Project Number		Job Date			
					FL4297		7/31/2018			
O-Tex Location					State		County			
Brighton, Colorado 303-857-7948					CO		Weld			
Lease Name		Well No.		O-Tex Field Supervisor			Customer Representative		Phone	
Ottenhoff 29R-323				Joyner, Barlen			John Falton			
Job Type				Man Hours			API Number			
Latex Production				65			05-123-43645			
USE THIS FORM TO NOTE ANY ISSUES ENCOUNTERED WITH THE PERFORMANCE OF THIS JOB.										
THIS MAY INCLUDE TIME AT THE SHOP, ON THE ROAD OR DELAYS WITH DRILLING CONTRACTOR.										
DATE	TIME	VOLUME		RATE	PRESS		JOB PROCEDURES			
					CSG	Tbg.				
7/30/2018	21:30						Arrive on location / sign in			
	23:30									
7/31/2018	3:10						Mix up latex mix water			
	3:20									
	4:25						Spot trucks			
	5:05				5243					
	5:10						Rig in			
	5:11	80	bbl	5.50	700					
	5:29	20	bbl	5.50	800	Safety meeting				
	5:34	80	bbl	3.50	950					
	6:00	191	bbl	3.80	434	Pressure test				
	6:52	307	bbl	5.60	300					
	7:57						Drop bottom plug			
	8:09	64	bbl	5.00	90					
	8:27	222	bbl	7.50	932	SAPP spacer				
	8:56	25.5	bbl	3.50	1892					
	9:04	311.5	bbl	3.50	2188	Fresh water spacer				
	9:04				2569					
	9:04				2500	Weighted spacer @ 12.5ppg				
	9:05	2	bbl	2.00	3906					
	9:06	5	bbl	4.00	2075	Mix, weigh and pump 765sx Latex lead @ 14ppg				
	9:07									
	9:10					Mix, weigh and pump 1340sx Tail @ 14.5ppg				
	10:00									
	10:20					Stop / drop top plug / wash up pumps & lines				
						Start displacement				
						Catch cement / increase rate				
						Drop rate				
						Bump plug				
						Plug down @ 311.5 bbls				
						Casing test				
						Rupture disc				
						Fresh water spacer				
						Stop / check floats - 2 bbls back				
						Rig out				
						Job complete				
						Leave location				