

Cement Verification Report - Cementer's Well Service, Inc.

P.O. BOX 336220 • GREELEY, CO 80633 • (970) 353-7299 • FAX (970) 353-7712



COGCC Operator Guidance RULE #308.A.B(2)A.ii

CLIENT: PDC Energy	Cementer's FIELD TICKET #	300228-D
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Requested Operator Guidance:

Well Name & Number	Lease	Bost Farm		Well No.	16N - 8A - L
Well API Number	05-123-51448				
Job Date	1/8/22		Time on	17:30	24 hr time
Job Type	New Well Surface				
Cementing Company	Cementer's Well Service, Inc		Contact	Nate Kvamme - 303-324-4296	
Ambient conditions	clear	20	temp deg F		
Slurry Description					
a) Purpose	Surface - 9 5/8" 36# CSG, 12 1/4" hole				
b) Cement Class	Type I / II				
c) Cement Yield	1.61	cuft / sk			
d) Cement Density	13.9	PPG			
e) Number of sks	512	sks (94# equiv)			
f) Mix Fluid Type					
Water / Cement	8.5	Gal / sk			
g) Slurry mixed	145.6	BBLs slurry			
h) Additives used	1.50%	CaCl2	3.00%	Bentonite	
Total Water Used	250.6	BBLs H2O			
i) Displacement Fluid Vol	127.0	BBLs H2O			
j) Method of Placement					
k) Set Depth	1,700	feet (ft)			
l) Stage tool depth	n/a				
m) Float Collar Depth	1,643	feet (ft)			
n) Designed Top of Cement	n/a	to surface			
o) Centralizer depths	0	feet (ft)			

Charts - (pressure, density, pump rate)

Landed Plug @ 1593 psi Final Lift Pressure @ 475 psi

Cement Density (as weighed during job) @ 13.9 PPG

Job notes

a) Plug down	<input checked="" type="radio"/> Y <input type="radio"/> N	Time	20:21	24 hr time
b) Floats held	<input checked="" type="radio"/> Y <input type="radio"/> N		1/8/22	
c) Full Returns	<input checked="" type="radio"/> Y <input type="radio"/> N	Lost Circulation	<input checked="" type="radio"/> Y <input type="radio"/> N	
d) Cement to surface	<input checked="" type="radio"/> Y <input type="radio"/> N	20.0	BBLs to surface	
e) If no returns, top off	n/a	BBLs		
f) Top off detail				
g) Additional Detail	0			
	0			

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PDC Energy

Surface Casing Pressure Test - Cement Job Graph

COMPANY DETAILS

Date	1/8/22	API #	05-123-51448	Well No.	16N - 8A - L
County	Weld	State	CO	Lease	Bost Farm

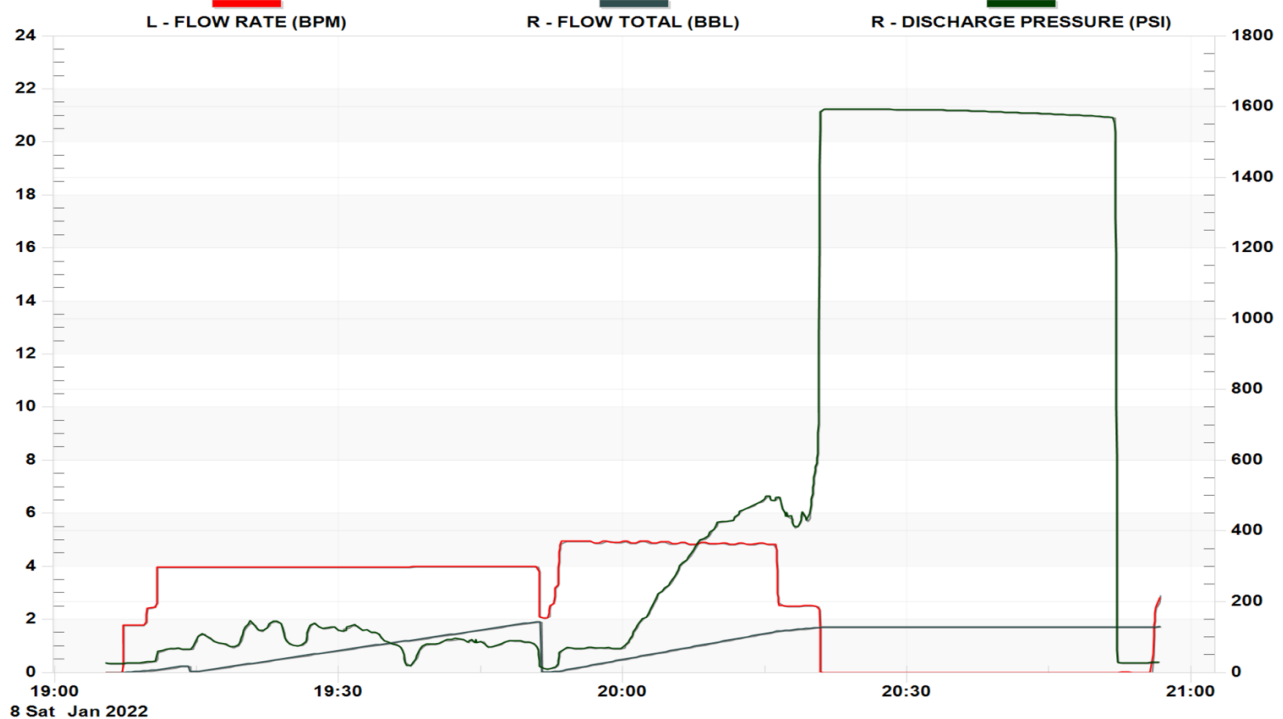
Client PDC Energy

Contact / email

JOB DETAILS

TIME ON	17:30	24 hr	Depth	1,700	ft.	Pressure Test @	1,593	psi
START TIME	19:05	1/8/22	Bottom of Surface	1,700	ft.	10 min	1,591	psi
END TIME	20:56	1/8/22	Plug Landed @	1,643	ft.	20 min	1,583	psi
			Plug Landed @	20:21	24 hr	30 min	1,571	psi

SUMMARY GRAPH





Centralizer Depths

Well Name: Bost Farm 16N-8A-L

Surface, Set Depth: 1,700.0ftKB

API 05123514480000		Surface Legal Location SWNW 7 5N 66W		Field Name Wattenberg		State CO		Well Configuration Type Horizontal					
Ground Elevation (ft) 4,874.00		Original KB Elevation (ft) 4,902.00		KB-Ground Distance (ft) 28.00		Spud Date 4/18/2022 04:30		Rig Release Date 4/22/2022 06:00		On Production Date		Abandon Date	

Casing Run Tally

Run #	Ref #	Item Des	OD (in)	Wt (lb/ft)	Grade	Run?	Len (ft)	Centralized?	Ext Jw/ry	Connections	Top (ftKB)	Cum Len (ft)
2	1	Casing Joints	9 5/8	36.00	J-55	Yes	41.59	Yes			1,656.6	43.44
6	5	Casing Joints	9 5/8	36.00	J-55	Yes	41.53	Yes			1,490.3	209.69
10	9	Casing Joints	9 5/8	36.00	J-55	Yes	41.51	Yes			1,324.2	375.85
14	13	Casing Joints	9 5/8	36.00	J-55	Yes	41.53	Yes			1,158.0	541.96
18	17	Casing Joints	9 5/8	36.00	J-55	Yes	41.57	Yes			991.8	708.16
22	21	Casing Joints	9 5/8	36.00	J-55	Yes	41.60	Yes			825.6	874.45
26	25	Casing Joints	9 5/8	36.00	J-55	Yes	41.56	Yes			659.4	1,040.65
30	29	Casing Joints	9 5/8	36.00	J-55	Yes	41.56	Yes			493.1	1,206.93
34	33	Casing Joints	9 5/8	36.00	J-55	Yes	41.56	Yes			326.8	1,373.17
38	37	Casing Joints	9 5/8	36.00	J-55	Yes	41.53	Yes			160.6	1,539.38
40	39	Casing Joints	9 5/8	36.00	J-55	Yes	41.55	Yes			77.5	1,622.49