

# 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 #	300244-D
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**Requested Operator Guidance:**

Well Name & Number	Lease	Grays Federal	Well No.	04N
Well API Number	05-123-50985			
Job Date	2/20/22	Time on	3:30	24 hr time
Job Type	New Well Surface			
Cementing Company	Cementer's Well Service, Inc	Contact	Nate Kvamme - 303-324-4296	
Ambient conditions	clear	26	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	629	sks (94# equiv)		
f) Mix Fluid Type				
Water / Cement	8.5	Gal / sk		
g) Slurry mixed	180.2	BBLs slurry		
h) Additives used	1.50%	CaCl2	3.00%	Bentonite
Total Water Used	272.8	BBLs H2O		
i) Displacement Fluid Vol	125.5	BBLs H2O		
j) Method of Placement				
k) Set Depth	1,665	feet (ft)		
l) Stage tool depth	n/a			
m) Float Collar Depth	1,623	feet (ft)		
n) Designed Top of Cement	n/a	to surface		
o) Centralizer depths	0	feet (ft)		

**Charts - (pressure, density, pump rate)**

Landed Plug @ 1650 psi Final Lift Pressure @ 450 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	6:10	24 hr time
b) Floats held	<input checked="" type="radio"/> Y / <input type="radio"/> N		2/20/22	
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	17.0	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	2/20/22	API #	05-123-50985	Well No.	04N
County	Weld	State	CO	Lease	Grays Federal

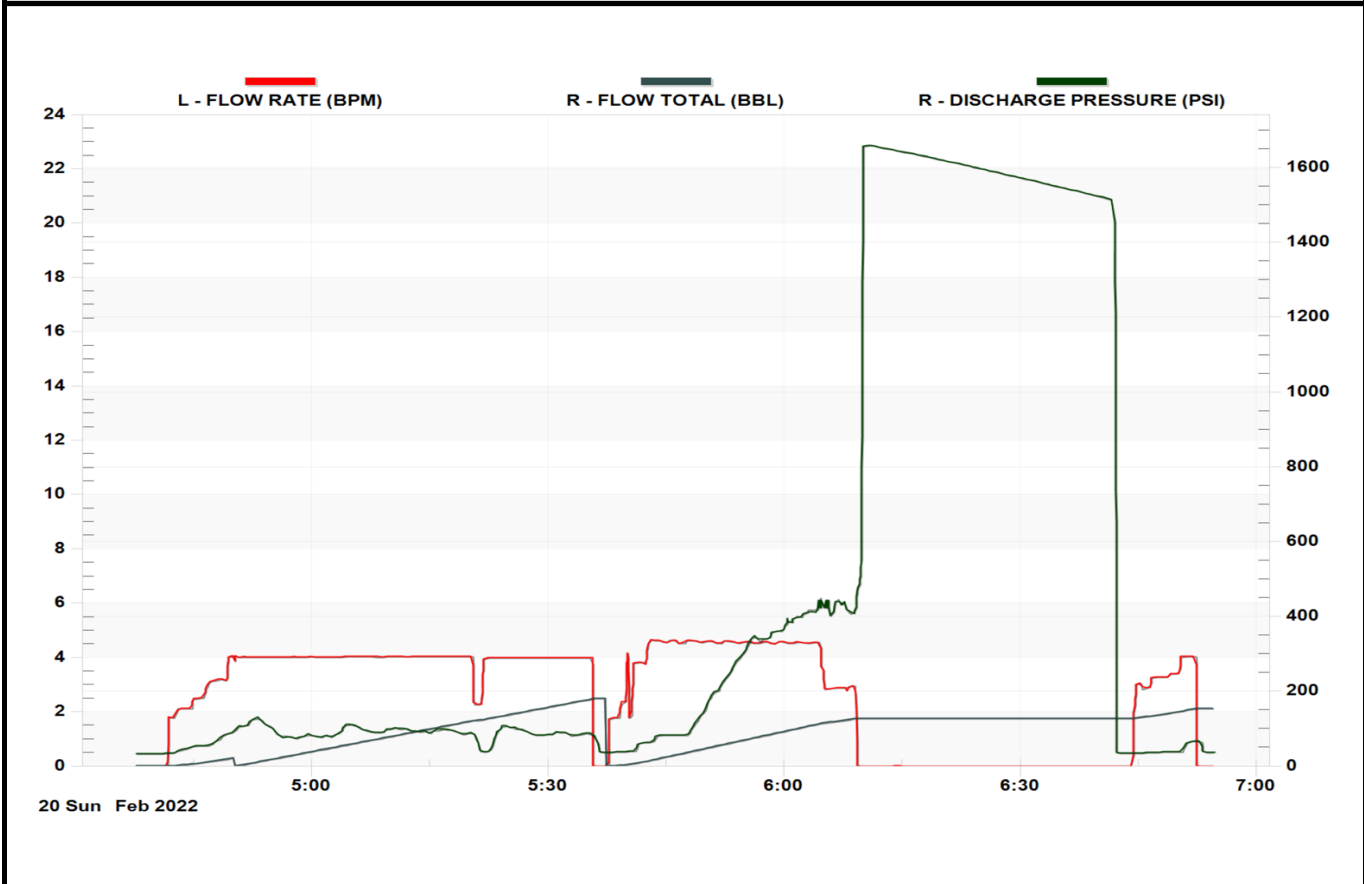
Client PDC Energy

Contact / email

### JOB DETAILS

TIME ON	3:30	24 hr	Depth	1,675	ft.	Pressure Test @	1,650	psi
START TIME	4:37	2/20/22	Bottom of Surface	1,665	ft.	10 min	1,610	psi
END TIME	6:54	2/20/22	Plug Landed @	1,623	ft.	20 min	1,560	psi
			Plug Landed @	6:10	24 hr	30 min	1,525	psi

### SUMMARY GRAPH





# Centralizer Depths

Well Name: Grays Federal 04N

Surface, Set Depth: 1,665.0ftKB

API 05123509850000		Surface Legal Location SENE 28 5N 65W		Field Name Wattenberg		State CO		Well Configuration Type Horizontal			
Ground Elevation (ft) 4,655.00	Original KB Elevation (ft) 4,668.00	KB-Ground Distance (ft) 13.00	Spud Date	Rig Release Date	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		Casing Joints	9 5/8	36.00	J-55	Yes	42.09	Yes		LT&C	1,621.1	43.94
6		Casing Joints	9 5/8	36.00	J-55	Yes	42.12	Yes		LT&C	1,452.6	212.44
10		Casing Joints	9 5/8	36.00	J-55	Yes	42.10	Yes		LT&C	1,284.2	380.88
14		Casing Joints	9 5/8	36.00	J-55	Yes	42.15	Yes		LT&C	1,115.6	549.40
18		Casing Joints	9 5/8	36.00	J-55	Yes	42.10	Yes		LT&C	947.1	717.89
22		Casing Joints	9 5/8	36.00	J-55	Yes	42.10	Yes		LT&C	778.8	886.27
26		Casing Joints	9 5/8	36.00	J-55	Yes	42.14	Yes		LT&C	610.3	1,054.73
30		Casing Joints	9 5/8	36.00	J-55	Yes	42.08	Yes		LT&C	441.8	1,223.24
34		Casing Joints	9 5/8	36.00	J-55	Yes	42.15	Yes		LT&C	273.2	1,391.83
38		Casing Joints	9 5/8	36.00	J-55	Yes	42.11	Yes		LT&C	104.8	1,560.27
39		Casing Joints	9 5/8	36.00	J-55	Yes	42.12	Yes		LT&C	62.6	1,602.39