

# 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	Cementor's FIELD TICKET #	300210-D
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## Requested Operator Guidance:

Well Name & Number	Lease	Schrute	Well No.	2N
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Well API Number	05-123-50950
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Job Date	12/21/21	Time on	20:30	24 hr time
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Job Type	New Well Surface
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Cementing Company	Cementor's Well Service, Inc	Contact	Nate Kvamme - 303-324-4296
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Ambient conditions	clear	27	temp deg F
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Slurry Description	
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a) Purpose	Surface - 9 5/8" 40# CSG, 12 1/4" hole
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b) Cement Class	Type I / II
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c) Cement Yield	1.61 cuft / sk
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d) Cement Density	13.9 PPG
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e) Number of sks	660 sks (94# equiv)
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f) Mix Fluid Type	
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Water / Cement	8.5 Gal / sk
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g) Slurry mixed	189.2 BBLs slurry
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h) Additives used	1.50% CaCl2 3.00% Bentonite
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Total Water Used	280.9 BBLs H2O
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i) Displacement Fluid Vol	127.3 BBLs H2O
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j) Method of Placement	
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k) Set Depth	1,689 feet (ft)
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l) Stage tool depth	n/a
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m) Float Collar Depth	1,647 feet (ft)
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n) Designed Top of Cement	n/a to surface
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o) Centralizer depths	0 feet (ft)
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## Charts - (pressure, density, pump rate)

Landed Plug @	1788 psi	Final Lift Pressure @	475 psi
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Cement Density (as weighed during job) @	13.9 PPG
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## Job notes

a) Plug down	Y / N	Time	0:31	24 hr time
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b) Floats held	Y / N	12/21/21
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c) Full Returns	Y / N	Lost Circulation	Y / N
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d) Cement to surface	Y / N	5.0 BBLs to surface
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e) If no returns, top off	n/a	BBLs
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f) Top off detail	
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PDC Energy

## Surface Cement Job Graph

### COMPANY DETAILS

Date	12/21/21	API #	05-123-50950	Well No.	2N
County	Weld	State	CO	Lease	Schrute

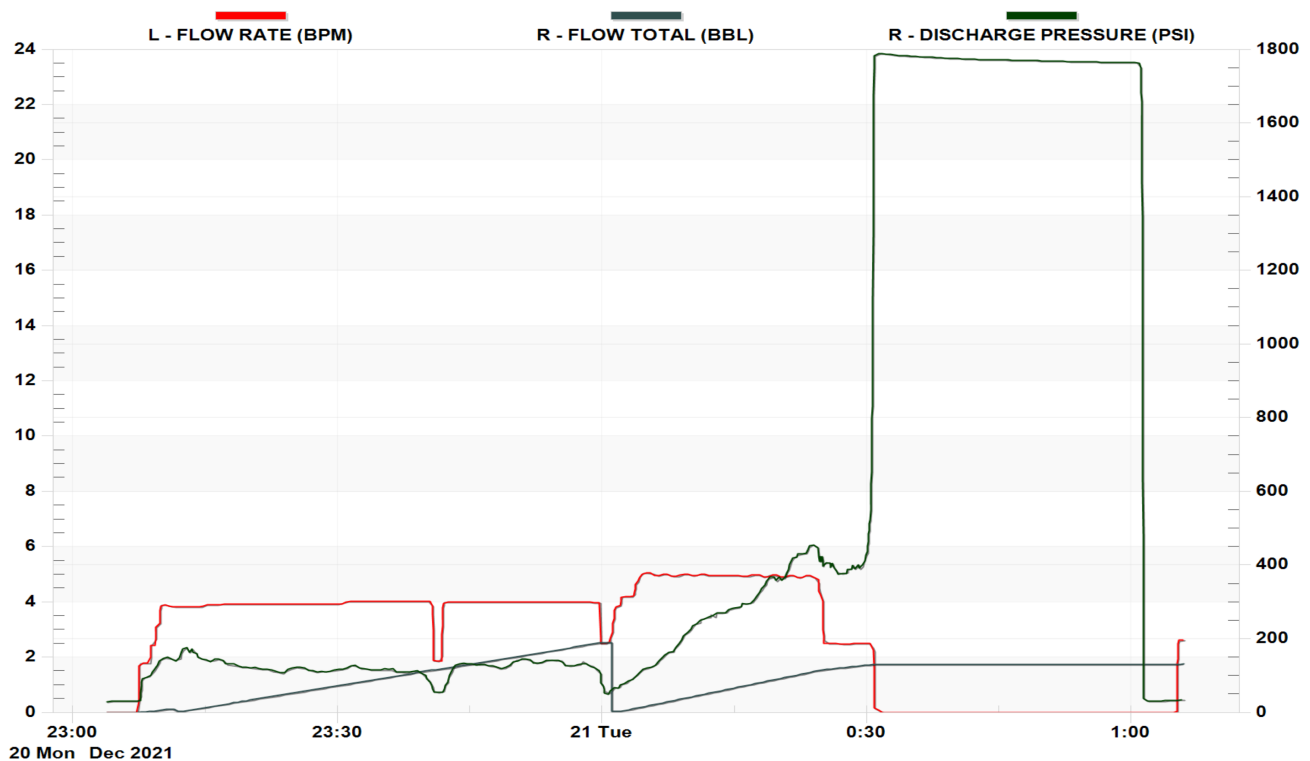
Client PDC Energy

Contact / email

### JOB DETAILS

TIME ON	20:30	24 hr	Depth	1,698	ft.	Pressure Test @	1,788	psi
START TIME	23:03	12/20/21	Bottom of Surface	1,689	ft.	10 min	1,775	psi
END TIME	1:06	12/21/21	Plug Landed @	1,647	ft.	20 min	1,768	psi
			Plug Landed @	0:31	24 hr	30 min	1,763	psi

### SUMMARY GRAPH





## Centralizer Depths

Well Name: Schrute 2N

Surface, Set Depth: 1,688.9ftKB

API 05123509500000		Surface Legal Location NESW 16 5N 64W		Field Name Wattenberg		State CO		Well Configuration Type Horizontal	
Ground Elevation (ft) 4,613.00	Original KB Elevation (ft) 4,626.00	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	41.82	Yes		LT&C	1,645.2	43.67
6		Casing Joints	9 5/8	36.00	J-55	Yes	41.79	Yes		LT&C	1,478.0	210.89
10		Casing Joints	9 5/8	36.00	J-55	Yes	41.79	Yes		LT&C	1,310.8	378.14
14		Casing Joints	9 5/8	36.00	J-55	Yes	41.83	Yes		LT&C	1,143.5	545.39
18		Casing Joints	9 5/8	36.00	J-55	Yes	41.35	Yes		LT&C	977.3	711.58
22		Casing Joints	9 5/8	36.00	J-55	Yes	38.35	Yes		LT&C	813.5	875.36
26		Casing Joints	9 5/8	36.00	J-55	Yes	41.81	Yes		LT&C	646.7	1,042.16
30		Casing Joints	9 5/8	36.00	J-55	Yes	41.76	Yes		LT&C	479.5	1,209.38
34		Casing Joints	9 5/8	36.00	J-55	Yes	41.84	Yes		LT&C	313.2	1,375.66
38		Casing Joints	9 5/8	36.00	J-55	Yes	41.81	Yes		LT&C	146.0	1,542.90
40		Casing Joints	9 5/8	36.00	J-55	Yes	41.80	Yes		LT&C	62.4	1,626.51