

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 #	300213-D
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Requested Operator Guidance:

Well Name & Number	Lease	Schrute	Well No.	5N
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Well API Number	05-123-50957
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Job Date	12/23/21	Time on	18:30	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	45	temp deg F
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Slurry Description	
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a) Purpose	Surface - 9 5/8" 36# 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	872	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	250.0	BBLs slurry
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h) Additives used	1.50% CaCl2	3.00% Bentonite
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Total Water Used	323.9	BBLs H2O
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i) Displacement Fluid Vol	127.4	BBLs H2O
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j) Method of Placement	
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k) Set Depth	1,690	feet (ft)
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l) Stage tool depth	n/a
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m) Float Collar Depth	1,648	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 @	1714	psi	Final Lift Pressure @	500	psi
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Cement Density (as weighed during job) @	13.9	PPG
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Job notes

a) Plug down	<input checked="" type="radio"/> Y / <input type="radio"/> N	Time	21:31	24 hr time
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b) Floats held	<input checked="" type="radio"/> Y / <input type="radio"/> N	12/23/21
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c) Full Returns	<input checked="" type="radio"/> Y / <input type="radio"/> N	Lost Circulation	<input checked="" type="radio"/> Y / <input type="radio"/> N
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d) Cement to surface	<input checked="" type="radio"/> Y / <input type="radio"/> N	30.0	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	12/23/21	API #	05-123-50957	Well No.	5N
County	Weld	State	CO	Lease	Schrute

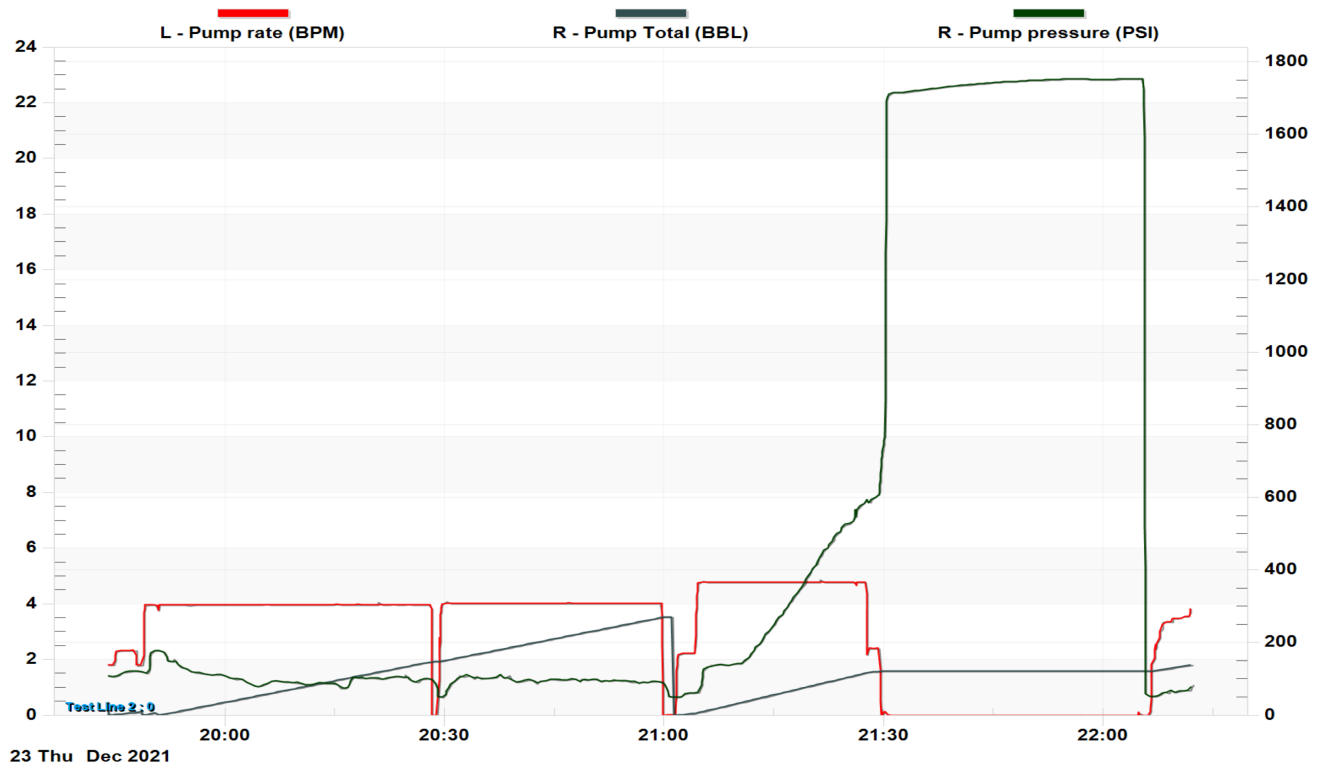
Client PDC Energy

Contact / email

JOB DETAILS

TIME ON	18:30	24 hr	Depth	1,699	ft.	Pressure Test @	1,714	psi
START TIME	19:44	12/23/21	Bottom of Surface	1,690	ft.	10 min	1,737	psi
END TIME	22:12	12/23/21	Plug Landed @	1,648	ft.	20 min	1,749	psi
			Plug Landed @	21:31	24 hr	30 min	1,752	psi

SUMMARY GRAPH





Centralizer Depths

Well Name: Schrute 5N

Surface, Set Depth: 1,689.6ftKB

API 05123509570000		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	41.97	Yes		LT&C	1,645.8	43.82
6		Casing Joints	9 5/8	36.00	J-55	Yes	41.22	Yes		LT&C	1,480.0	209.57
10		Casing Joints	9 5/8	36.00	J-55	Yes	41.82	Yes		LT&C	1,313.3	376.30
14		Casing Joints	9 5/8	36.00	J-55	Yes	41.84	Yes		LT&C	1,146.1	543.47
18		Casing Joints	9 5/8	36.00	J-55	Yes	41.83	Yes		LT&C	979.8	709.85
22		Casing Joints	9 5/8	36.00	J-55	Yes	41.98	Yes		LT&C	812.9	876.70
26		Casing Joints	9 5/8	36.00	J-55	Yes	41.82	Yes		LT&C	646.2	1,043.44
30		Casing Joints	9 5/8	36.00	J-55	Yes	41.54	Yes		LT&C	479.4	1,210.18
34		Casing Joints	9 5/8	36.00	J-55	Yes	41.85	Yes		LT&C	312.1	1,377.50
38		Casing Joints	9 5/8	36.00	J-55	Yes	41.52	Yes		LT&C	145.6	1,544.04
40		Casing Joints	9 5/8	36.00	J-55	Yes	41.88	Yes		LT&C	62.1	1,627.46