

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 #	300212-D
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Requested Operator Guidance:

Well Name & Number	Lease	Schrute	Well No.	4N
Well API Number	05-123-50959			
Job Date	12/23/21	Time on	0:00	24 hr time
Job Type	New Well Surface			
Cementing Company	Cementer's Well Service, Inc	Contact	Nate Kvamme - 303-324-4296	
Ambient conditions	clear	33	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	872	sks (94# equiv)		
f) Mix Fluid Type				
Water / Cement	8.5	Gal / sk		
g) Slurry mixed	250.0	BBLs slurry		
h) Additives used	1.50%	CaCl2	3.00%	Bentonite
Total Water Used	324.5	BBLs H2O		
i) Displacement Fluid Vol	128.0	BBLs H2O		
j) Method of Placement				
k) Set Depth	1,698	feet (ft)		
l) Stage tool depth	n/a			
m) Float Collar Depth	1,656	feet (ft)		
n) Designed Top of Cement	n/a	to surface		
o) Centralizer depths	0	feet (ft)		

Charts - (pressure, density, pump rate)

Landed Plug @ 1578 psi Final Lift Pressure @ 400 psi

Cement Density (as weighed during job) @ 13.9 PPG

Job notes

a) Plug down	<div><div></div>Y / N</div>	Time	2:45	24 hr time
b) Floats held	<div><div></div>Y / N</div>		12/23/21	
c) Full Returns	<div><div></div>Y / N</div>	Lost Circulation	<div><div></div>Y / N</div>	
d) Cement to surface	<div><div></div>Y / N</div>	20.0	BBLs to surface	
e) If no returns, top off	n/a	BBLs		
f) Top off detail				

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PDC Energy

Surface Cement Job Graph

COMPANY DETAILS

Date	12/23/21	API #	05-123-50959	Well No.	4N
County	Weld	State	CO	Lease	Schrute

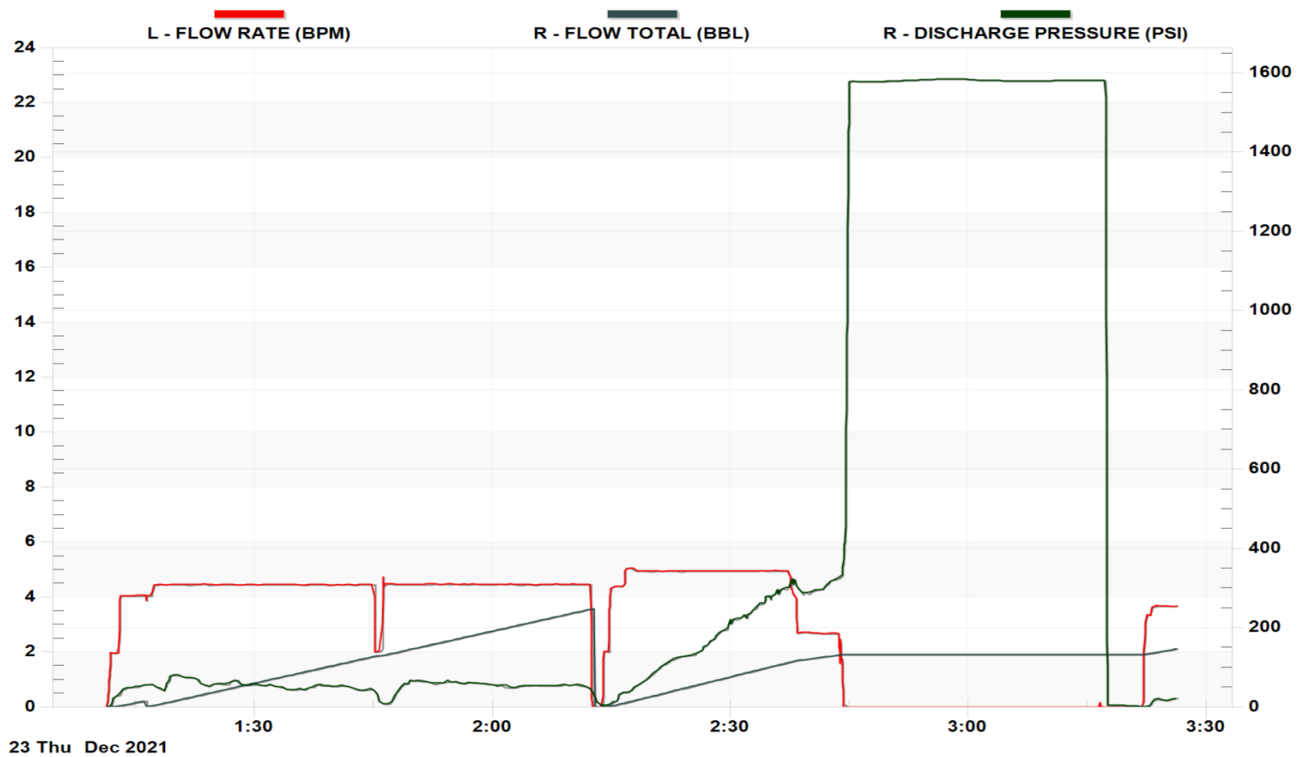
Client PDC Energy

Contact / email

JOB DETAILS

TIME ON	0:00	24 hr	Depth	1,707	ft.	Pressure Test @	1,578	psi
START TIME	1:10	12/23/21	Bottom of Surface	1,698	ft.	10 min	1,583	psi
END TIME	3:27	12/23/21	Plug Landed @	1,656	ft.	20 min	1,580	psi
			Plug Landed @	2:45	24 hr	30 min	1,581	psi

SUMMARY GRAPH





Centralizer Depths

Well Name: Schrute 4N

Surface, Set Depth: 1,697.9ftKB

API 05123509590000		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 Jwlry	Connections	Top (ftKB)	Cum Len (ft)
2		Casing Joints	9 5/8	36.00	J-55	Yes	41.96	Yes		LT&C	1,654.1	43.81
6		Casing Joints	9 5/8	36.00	J-55	Yes	41.80	Yes		LT&C	1,486.8	211.10
10		Casing Joints	9 5/8	36.00	J-55	Yes	41.85	Yes		LT&C	1,319.4	378.55
14		Casing Joints	9 5/8	36.00	J-55	Yes	41.81	Yes		LT&C	1,152.3	545.63
18		Casing Joints	9 5/8	36.00	J-55	Yes	41.95	Yes		LT&C	984.6	713.35
22		Casing Joints	9 5/8	36.00	J-55	Yes	41.94	Yes		LT&C	816.7	881.18
26		Casing Joints	9 5/8	36.00	J-55	Yes	42.00	Yes		LT&C	648.9	1,049.02
30		Casing Joints	9 5/8	36.00	J-55	Yes	41.97	Yes		LT&C	481.3	1,216.63
34		Casing Joints	9 5/8	36.00	J-55	Yes	41.83	Yes		LT&C	313.7	1,384.23
38		Casing Joints	9 5/8	36.00	J-55	Yes	41.95	Yes		LT&C	145.8	1,552.06
40		Casing Joints	9 5/8	36.00	J-55	Yes	41.90	Yes		LT&C	62.4	1,635.55