

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 #	300349-D
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Requested Operator Guidance:

Well Name & Number	Lease	Stugart	Well No.	19N
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Well API Number	05-123-51267
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Job Date	7/21/2022	Time on	10:30	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	97	temp deg F
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Slurry Description	
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a) Purpose	Surface - 9 5/8" 36# CSG, 13 1/2" hole
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b) Cement Class	ASTM C150 Type 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	763 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	218.5 BBLs slurry
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h) Additives used	1.5% CaCl2	3.0% Bentonite
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Total Water Used	310.5 BBLs H2O
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i) Displacement Fluid Vol	126.1 BBLs H2O
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j) Method of Placement	
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k) Set Depth	1,674 feet (ft)
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l) Stage tool depth	n/a
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m) Float Collar Depth	1,631 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 @	1680 psi	Final Lift Pressure @	250 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	12:52	24 hr time
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b) Floats held	<input checked="" type="radio"/> Y <input type="radio"/> N	7/21/2022
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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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g) Additional Detail	
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PDC Energy

Surface Cement Job Graph & Casing Pressure Test

COMPANY DETAILS

Date	7/21/2022	API #	05-123-51267	Well No.	19N
County	Weld	State	CO	Lease	Stugart

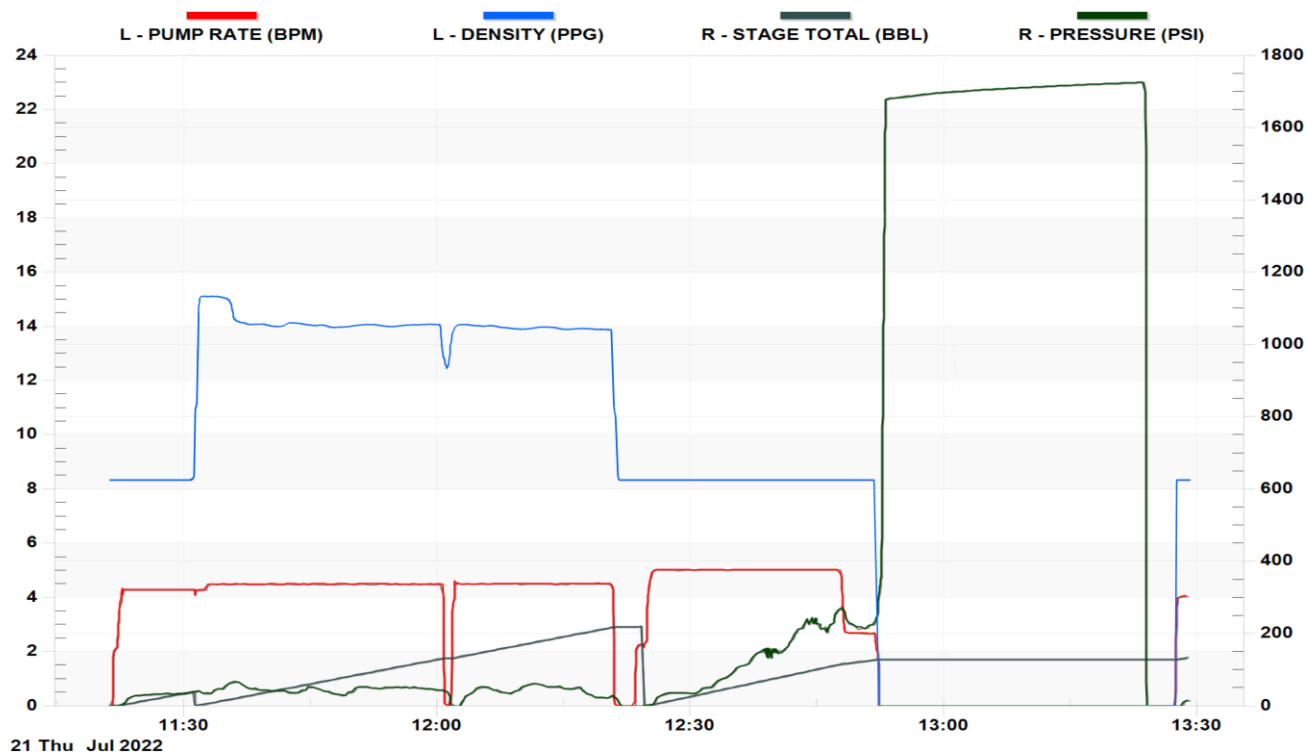
Client PDC Energy

Contact / email

JOB DETAILS

TIME ON	10:30	24 hr	Depth	1,683	ft.	Pressure Test @	1,680	psi
START TIME	11:21	7/21/22	Bottom of Surface	1,674	ft.	10 min	1,700	psi
END TIME	13:29	7/21/22	Plug Landed @	1,631	ft.	20 min	1,713	psi
			Plug Landed @	12:52	24 hr	30 min	1,724	psi

SUMMARY GRAPH





Centralizer Depths

Well Name: STUGART 19N

Surface, Set Depth: 1,673.7ftKB

API 05123512670000		Surface Legal Location SENW 20-5N-66W		Field Name Wattenberg		State CO		Well Configuration Type Horizontal	
Ground Elevation (ft) 4,885.00	Original KB Elevation (ft) 4,898.00	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	41.84	Yes		LT&C	1,630.1	43.69
3		Casing joints	9 5/8	36.00	J-55	Yes	42.16	Yes		LT&C	1,587.9	85.85
4		Casing joints	9 5/8	36.00	J-55	Yes	42.24	Yes		LT&C	1,545.7	128.09
8		Casing joints	9 5/8	36.00	J-55	Yes	42.16	Yes		LT&C	1,378.0	295.79
12		Casing joints	9 5/8	36.00	J-55	Yes	42.22	Yes		LT&C	1,209.2	464.59
16		Casing joints	9 5/8	36.00	J-55	Yes	42.24	Yes		LT&C	1,040.3	633.47
20		Casing joints	9 5/8	36.00	J-55	Yes	42.14	Yes		LT&C	878.1	795.63
24		Casing joints	9 5/8	36.00	J-55	Yes	42.19	Yes		LT&C	713.7	960.01
28		Casing joints	9 5/8	36.00	J-55	Yes	42.18	Yes		LT&C	545.1	1,128.68
32		Casing joints	9 5/8	36.00	J-55	Yes	40.05	Yes		LT&C	380.6	1,293.10
36		Casing joints	9 5/8	36.00	J-55	Yes	40.00	Yes		LT&C	220.6	1,453.12