

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 #	300195-D
--------------------	------------------------------	----------

Requested Operator Guidance:

Well Name & Number	Lease	Watermelon	Well No.	5N
--------------------	-------	------------	----------	----

Well API Number	05-123-50722
-----------------	--------------

Job Date	11/2/21	Time on	17:45	24 hr time
----------	---------	---------	-------	------------

Job Type	New Well Surface
----------	------------------

Cementing Company	Cementor's Well Service, Inc	Contact	Nate Kvamme - 303-324-4296
-------------------	------------------------------	---------	----------------------------

Ambient conditions	clear	39	temp deg F
--------------------	-------	----	------------

Slurry Description	
--------------------	--

a) Purpose	Surface - 9 5/8" 40# CSG, 13 1/2" hole
------------	--

b) Cement Class	Type I / II
-----------------	-------------

c) Cement Yield	1.61	cuft / sk
-----------------	------	-----------

d) Cement Density	13.9	PPG
-------------------	------	-----

e) Number of sks	662	sks (94# equiv)
------------------	-----	-----------------

f) Mix Fluid Type	
-------------------	--

Water / Cement	8.5	Gal / sk
----------------	-----	----------

g) Slurry mixed	189.8	BBLs slurry
-----------------	-------	-------------

h) Additives used	1.50% CaCl2	3.00% Bentonite
-------------------	-------------	-----------------

Total Water Used	278.3	BBLs H2O
------------------	-------	----------

i) Displacement Fluid Vol	124.4	BBLs H2O
---------------------------	-------	----------

j) Method of Placement	
------------------------	--

k) Set Depth	1,650	feet (ft)
--------------	-------	-----------

l) Stage tool depth	n/a
---------------------	-----

m) Float Collar Depth	1,609	feet (ft)
-----------------------	-------	-----------

n) Designed Top of Cement	n/a	to surface
---------------------------	-----	------------

o) Centralizer depths	0	feet (ft)
-----------------------	---	-----------

Charts - (pressure, density, pump rate)

Landed Plug @	1766	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	20:36	24 hr time
--------------	--	------	-------	------------

b) Floats held	<input checked="" type="radio"/> Y / <input type="radio"/> N	11/2/21
----------------	--	---------

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	6.0	BBLs to surface
----------------------	--	-----	-----------------

e) If no returns, top off	n/a	BBLs
---------------------------	-----	------

f) Top off detail	
-------------------	--



Centralizer Depths

Well Name: Watermelon 5N

Surface, Set Depth: 1,650.3ftKB

API 05123507220000		Surface Legal Location NWNW 16 5N 64W		Field Name Wattenberg		State CO		Well Configuration Type Horizontal	
Ground Elevation (ft) 1,610.00	Original KB Elevation (ft) 1,623.00	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	41.85	Yes		LT&C	1,606.6	43.70
6		Casing Joints	9 5/8	36.00	J-55	Yes	41.83	Yes		LT&C	1,439.4	210.95
10		Casing Joints	9 5/8	36.00	J-55	Yes	41.88	Yes		LT&C	1,274.9	375.40
11		Casing Joints	9 5/8	36.00	J-55	Yes	41.82	Yes		LT&C	1,233.1	417.22
14		Casing Joints	9 5/8	36.00	J-55	Yes	41.83	Yes		LT&C	1,107.6	542.68
18		Casing Joints	9 5/8	36.00	J-55	Yes	41.81	Yes		LT&C	940.3	709.96
22		Casing Joints	9 5/8	36.00	J-55	Yes	41.83	Yes		LT&C	773.0	877.26
26		Casing Joints	9 5/8	36.00	J-55	Yes	41.83	Yes		LT&C	605.7	1,044.57
30		Casing Joints	9 5/8	36.00	J-55	Yes	41.46	Yes		LT&C	438.7	1,211.57
34		Casing Joints	9 5/8	36.00	J-55	Yes	41.82	Yes		LT&C	271.5	1,378.85
38		Casing Joints	9 5/8	36.00	J-55	Yes	41.83	Yes		LT&C	104.1	1,546.18
39		Casing Joints	9 5/8	36.00	J-55	Yes	41.83	Yes		LT&C	62.3	1,588.01