

# 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 #	300199-D
--------------------	------------------------------	----------

## Requested Operator Guidance:

Well Name & Number	Lease	Watermelon	Well No.	9N
--------------------	-------	------------	----------	----

Well API Number	05-123-50727
-----------------	--------------

Job Date	11/5/21	Time on	5:15	24 hr time
----------	---------	---------	------	------------

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

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

Ambient conditions	clear	38	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	686	sks (94# equiv)
------------------	-----	-----------------

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

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

g) Slurry mixed	196.5	BBLs slurry
-----------------	-------	-------------

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

Total Water Used	283.1	BBLs H2O
------------------	-------	----------

i) Displacement Fluid Vol	124.3	BBLs H2O
---------------------------	-------	----------

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

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

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

m) Float Collar Depth	1,608	feet (ft)
-----------------------	-------	-----------

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

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

## Charts - (pressure, density, pump rate)

Landed Plug @	1756	psi	Final Lift Pressure @	475	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	7:57	24 hr time
--------------	--	------	------	------------

b) Floats held	<input checked="" type="radio"/> Y / <input type="radio"/> N	11/5/21
----------------	--	---------

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	16.0	BBLs to surface
----------------------	--	------	-----------------

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

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



## Centralizer Depths

Well Name: Watermelon 9N

Surface, Set Depth: 1,649.7ftKB

API 05123507270000		Surface Legal Location NWNW 16 5N 64W		Field Name Wattenberg		State CO		Well Configuration Type Horizontal	
Ground Elevation (ft) 4,610.00	Original KB Elevation (ft) 4,623.00	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	41.81	Yes		LT&C	1,606.0	43.66
6		Casing Joints	9 5/8	36.00	J-55	Yes	41.81	Yes		LT&C	1,438.8	210.91
10		Casing Joints	9 5/8	36.00	J-55	Yes	41.81	Yes		LT&C	1,271.6	378.15
11		Casing Joints	9 5/8	36.00	J-55	Yes	41.81	Yes		LT&C	1,229.7	419.96
14		Casing Joints	9 5/8	36.00	J-55	Yes	41.81	Yes		LT&C	1,104.3	545.39
18		Casing Joints	9 5/8	36.00	J-55	Yes	41.80	Yes		LT&C	937.1	712.62
22		Casing Joints	9 5/8	36.00	J-55	Yes	41.82	Yes		LT&C	769.9	879.85
26		Casing Joints	9 5/8	36.00	J-55	Yes	41.81	Yes		LT&C	602.6	1,047.09
30		Casing Joints	9 5/8	36.00	J-55	Yes	41.80	Yes		LT&C	435.4	1,214.31
34		Casing Joints	9 5/8	36.00	J-55	Yes	41.80	Yes		LT&C	271.4	1,378.32
38		Casing Joints	9 5/8	36.00	J-55	Yes	41.81	Yes		LT&C	104.1	1,545.56
39		Casing Joints	9 5/8	36.00	J-55	Yes	41.83	Yes		LT&C	62.3	1,587.39