

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	Cementer's FIELD TICKET #	300445-D
--------------------	------------------------------	----------

Requested Operator Guidance:

Well Name & Number	Lease	Kodak South	Well No.	11C
--------------------	-------	-------------	----------	-----

Well API Number	05-123-52104
-----------------	--------------

Job Date	6/2/23	Time on	3:12	6/2/23	24 hr time
----------	--------	---------	------	--------	------------

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

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

Ambient conditions	clear	65	temp deg F
--------------------	-------	----	------------

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

a) Purpose	Surface - 9 5/8" 36# 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	821	sks (94# equiv)
------------------	-----	-----------------

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

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

g) Slurry mixed	235.3	BBLs slurry
-----------------	-------	-------------

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

Total Water Used	322.8	BBLs H2O
------------------	-------	----------

i) Displacement Fluid Vol	126.7	BBLs H2O
---------------------------	-------	----------

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

k) Set Depth	1,680	feet (ft)
--------------	-------	-----------

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

m) Float Collar Depth	1,639	feet (ft)
-----------------------	-------	-----------

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

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

Charts - (pressure, density, pump rate)

Landed Plug @	1,625	psi	Final Lift Pressure @	400	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	5:53	24 hr time
--------------	--	------	------	------------

b) Floats held	<input checked="" type="radio"/> Y / <input type="radio"/> N		6/2/23
----------------	--	--	--------

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	8.0	BBLs to surface
----------------------	--	-----	-----------------

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

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

g) Additional Detail	0
----------------------	---

	0
--	---

Cementer's Well Service, Inc.

P.O. BOX 336220 • GREELEY, CO 80633 • (970) 353-7299 • FAX (970) 353-7712



PDC Energy

Surface Casing Pressure Test - Cement Job Graph

COMPANY DETAILS

Date	6/2/23	API #	05-123-52104	Well No.	11C
County	Weld	State	CO	Lease	Kodak South

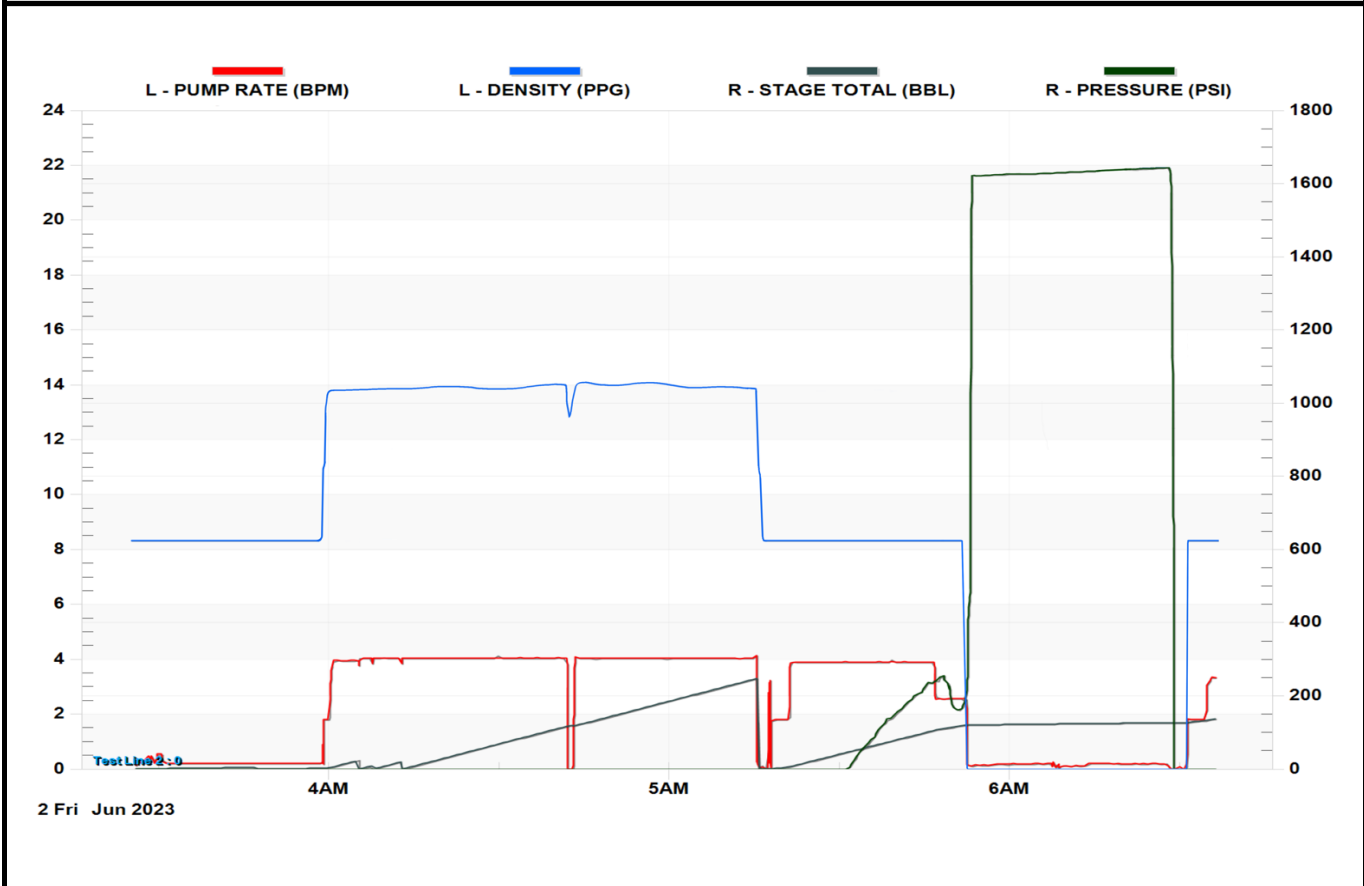
Client PDC Energy

Contact / email _____

JOB DETAILS

TIME ON	3:12	6/2/23	Depth	1,690	ft.	Pressure Test @	1,625	psi
START TIME	4:00	6/2/23	Bottom of Surface	1,680	ft.	10 min	1,632	psi
END TIME	6:30	6/2/23	Plug Landed @	1,639	ft.	20 min	1,641	psi
			Plug Landed @	5:53	24 hr	30 min	1,649	psi

SUMMARY GRAPH





Centralizer Depths

Well Name: KODAK SOUTH 11C

Surface, Set Depth: 1,694.2ftKB

API 05123521040000		Surface Legal Location SESW 26 6N 67W		Field Name Wattenberg		State CO		Well Configuration Type Horizontal	
Ground Elevation (ft) 4,743.00	Original KB Elevation (ft) 4,771.00	KB-Ground Distance (ft) 28.00	Spud Date 8/2/2023 16:00	Rig Release Date 8/7/2023 13:30	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	1	Casing joints	9 5/8	36.00	J-55	Yes	41.25	Yes		LT&C	1,651.5	42.70
4	2	Casing joints	9 5/8	36.00	J-55	Yes	41.04	Yes		LT&C	1,609.2	85.05
5	3	Casing joints	9 5/8	36.00	J-55	Yes	40.48	Yes		LT&C	1,568.7	125.53
9	7	Casing joints	9 5/8	36.00	J-55	Yes	40.45	Yes		LT&C	1,405.0	289.18
13	11	Casing joints	9 5/8	36.00	J-55	Yes	41.05	Yes		LT&C	1,240.9	453.27
17	15	Casing joints	9 5/8	36.00	J-55	Yes	41.10	Yes		LT&C	1,075.8	618.42
21	19	Casing joints	9 5/8	36.00	J-55	Yes	40.45	Yes		LT&C	912.9	781.27
25	23	Casing joints	9 5/8	36.00	J-55	Yes	39.96	Yes		LT&C	755.3	938.91
29	27	Casing joints	9 5/8	36.00	J-55	Yes	39.99	Yes		LT&C	594.4	1,099.81
33	31	Casing joints	9 5/8	36.00	J-55	Yes	39.98	Yes		LT&C	434.5	1,259.67
37	35	Casing joints	9 5/8	36.00	J-55	Yes	39.97	Yes		LT&C	274.6	1,419.56
41	39	Casing joints	9 5/8	36.00	J-55	Yes	39.99	Yes		LT&C	114.8	1,579.43
42	40	Casing joints	9 5/8	36.00	J-55	Yes	39.97	Yes		LT&C	74.8	1,619.40