

Surface Cement Verification Report

Drake 17N

Date: Jul 19, 2023

Cementer's Well Service, Inc.
P.O. BOX 336220 • GREELEY, CO 80633 •
(970) 690-1100

CLIENT: PDC Energy

FIELD TICKET #: 200.00161



COGCC Operator Guidance - RULE #308.A.B(2)A.ii

Job Information

API #:	05-123-51815	Job Type:	New Well -- Surface
Well Owner:	PDC Energy	Cementing Company:	Cementer's Well Service, Inc.
Lease:	Drake	Contact:	Nate Kvamme, 303-324-4296
Well Name:	17N	Ambient Conditions:	Clear
State:	CO	Temperature:	93 deg F
County:	Weld		
Job Date:	Jul 19, 2023		
Time on Location:	Jul 19, 2023, 1:26 PM		

Slurry Description

a) Purpose	Surface
b) Cement Class	ASTM C150 Type II
c) Cement Yield	1.61 cu ft / sk
d) Cement Density	13.9 PPG
e) Number of sks	740 sks
f) Mix Fluid Type	
Water / Cement	8.5 gal/sk
g) Slurry Mixed	212.19 BBLs Cement
h) Additives Used	Gel/Bentonite 3.00 % Calcium Chloride 1.50 %
Total Water Used	300.17 BBLs Water
i) Displacement Fluid Vol	130.41 BBLs Water
j) Method of Placement	N/A
l) Stage Tool Depth	N/A
k) Set Depth	Pipe Landed @ 1,728 ft.
m) Float Collar Depth	Plug Landed @ 1,687 ft.
n) Designed top of Cement	Returns to Surface (+)
o) Centralizer Depths	N/A

Job Notes

a) Plug Down	
Yes @ Jul 19, 2023, 3:49 PM	
Landed Plug @	1,604 PSI
Final Lift @	400 PSI
b) Floats Held	Yes
c) Full Returns	Yes
Lost Circulation	No
d) Cement to Surface	Yes
	20 BBLs Cement
e) If no returns, top off	
f) Top off Detail	
g) Additional Detail	
Charts -	
(Pressure, Density, Pump Rate & Total BBLs)	
	*see further attached

Cementer's Well Service, Inc.

PDC Energy

Cementer's Job ID: 2085



Centralizer Depths

Well Name: Drake 17N

Surface, Set Depth: 1,743.5ftKB

API 05123518150000		Surface Legal Location NWSW 17 4N 64W		Field Name Wattenberg		State CO		Well Configuration Type Horizontal	
Ground Elevation (ft) 4,736.00	Original KB Elevation (ft) 4,764.50	KB-Ground Distance (ft) 28.50	Spud Date 1/12/2024 04:00	Rig Release Date 1/15/2024 17:00	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	41.02	Yes		LT&C	1,701.1	42.45
4	2	Casing joints	9 5/8	36.00	J-55	Yes	39.86	Yes		LT&C	1,659.9	83.62
5	3	Casing joints	9 5/8	36.00	J-55	Yes	39.80	Yes		LT&C	1,620.1	123.42
9	7	Casing joints	9 5/8	36.00	J-55	Yes	40.45	Yes		LT&C	1,458.7	284.76
13	11	Casing joints	9 5/8	36.00	J-55	Yes	40.93	Yes		LT&C	1,295.0	448.52
17	15	Casing joints	9 5/8	36.00	J-55	Yes	40.50	Yes		LT&C	1,132.0	611.52
21	19	Casing joints	9 5/8	36.00	J-55	Yes	40.97	Yes		LT&C	970.9	772.64
25	23	Casing joints	9 5/8	36.00	J-55	Yes	40.59	Yes		LT&C	808.7	934.76
29	27	Casing joints	9 5/8	36.00	J-55	Yes	39.34	Yes		LT&C	646.8	1,096.69
33	31	Casing joints	9 5/8	36.00	J-55	Yes	40.50	Yes		LT&C	483.6	1,259.95
37	35	Casing joints	9 5/8	36.00	J-55	Yes	41.07	Yes		LT&C	320.7	1,422.85
41	39	Casing joints	9 5/8	36.00	J-55	Yes	40.60	Yes		LT&C	157.6	1,585.91
43	41	Casing joints	9 5/8	36.00	J-55	Yes	40.49	Yes		LT&C	76.6	1,666.94