

# Surface Cement Verification Report

George 13N

Date: Feb 28, 2024

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



CLIENT: PDC Energy

FIELD TICKET #: 200.0103.010

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

## Job Information

<b>API #:</b>	05-123-51787	<b>Job Type:</b>	New Well -- Surface
<b>Well Owner:</b>	PDC Energy	<b>Cementing Company:</b>	Cementer's Well Service, Inc.
<b>Lease:</b>	George	<b>Contact:</b>	Nate Kvamme, 303-324-4296
<b>Well Name:</b>	13N	<b>Ambient Conditions:</b>	Clear
<b>State:</b>	CO	<b>Temperature:</b>	12 deg F
<b>County:</b>	Weld		
<b>Job Date:</b>	Feb 28, 2024		
<b>Time on Location:</b>	Feb 28, 2024, 3:15 AM		

## Slurry Description

<b>a) Purpose</b>	Surface
<b>b) Cement Class</b>	ASTM C595 Type IL
<b>c) Cement Yield</b>	1.61 cu ft / sk
<b>d) Cement Density</b>	13.9 PPG
<b>e) Number of sks</b>	776 sks
<b>f) Mix Fluid Type</b>	
Water / Cement	8.5 gal/sk
<b>g) Slurry Mixed</b>	222.51 BBLs Cement
<b>h) Additives Used</b>	Gel/Bentonite 3.00 % Calcium Chloride 1.50 %
<b>Total Water Used</b>	325.65 BBLs Water
<b>i) Displacement Fluid Vol</b>	148.61 BBLs Water
<b>j) Method of Placement</b>	N/A
<b>l) Stage Tool Depth</b>	N/A
<b>k) Set Depth</b>	Pipe Landed @ 1,955.4ft.
<b>m) Float Collar Depth</b>	Plug Landed @ 1,922.4 ft.
<b>n) Designed top of Cement</b>	Returns to Surface (+)
<b>o) Centralizer Depths</b>	N/A

## Job Notes

<b>a) Plug Down</b>	Yes @ Feb 28, 2024, 6:50 AM
	Landed Plug @ 2,524 PSI
	Final Lift @ 610 PSI
<b>b) Floats Held</b>	Yes 1.0 BBLs back
<b>c) Full Returns</b>	Yes
<b>Lost Circulation</b>	No
<b>d) Cement to Surface</b>	Yes
	30 BBLs Cement
<b>e) If no returns, top off</b>	
<b>f) Top off Detail</b>	
<b>g) Additional Detail</b>	
<b>Charts -</b>	
<b>(Pressure, Density, Pump Rate &amp; Total BBLs)</b>	
	*see further attached

Cementer's Well Service, Inc.

PDC Energy

Cementer's Job ID: 3597

# Surface Cement Job Graph & Casing Test

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Well Data		Cement Job Data	
<b>API #:</b>	05-123-51787	<b>State:</b>	CO
<b>Well Owner:</b>	PDC Energy	<b>County:</b>	Weld
<b>Lease:</b>	George	<b>Time on Location:</b> 02-28-24 03:15	
<b>Well Name:</b>	13N	<b>Plug Down Time:</b> 02-28-24 06:50	
<b>TD:</b>	Depth @ 1,965.4 ft.	<b>Casing Pressure Test Results (PSI)</b>	
<b>KB:</b>	Pipe Landed @ 1955.4 ft.	Final Lift @	610 PSI
<b>Set:</b>	Plug Landed @ 1922.4 ft.	Landed Plug @	2,524 PSI
		10 min	2,528 PSI
		20 min	2,530 PSI
		30 min	2,530 PSI

