

# Surface Cement Verification Report

George 09N

Date: Feb 29, 2024

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

CLIENT: PDC Energy

FIELD TICKET #: 200.0103.014



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

## Job Information

|                          |                       |                            |                               |
|--------------------------|-----------------------|----------------------------|-------------------------------|
| <b>API #:</b>            | 05-123-51779          | <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>        | 09N                   | <b>Ambient Conditions:</b> | Clear                         |
| <b>State:</b>            | CO                    | <b>Temperature:</b>        | 42 deg F                      |
| <b>County:</b>           | Weld                  |                            |                               |
| <b>Job Date:</b>         | Feb 29, 2024          |                            |                               |
| <b>Time on Location:</b> | Feb 29, 2024, 9:00 PM |                            |                               |

## 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>          | 782 sks   |
| <b>f) Mix Fluid Type</b>         |   |
| Water / Cement                   | 8.5 gal/sk                                      |
| <b>g) Slurry Mixed</b>           | 224.23 BBLs Cement                              |
| <b>h) Additives Used</b>         | Gel/Bentonite 3.00 %<br>Calcium Chloride 1.50 % |
| <b>Total Water Used</b>          | 347.91 BBLs Water                               |
| <b>i) Displacement Fluid Vol</b> | 149.65 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 @ 1,969 ft.                         |
| <b>m) Float Collar Depth</b>     | Plug Landed @ 1,936 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 29, 2024, 10:56 PM                           |                       |
| Landed Plug @ 2,543 PSI                                |                       |
| Final Lift @ 600 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: 3601

# Surface Cement Job Graph & Casing Test

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| Well Data          |                         | Cement Job Data                           |           |
|--------------------|-------------------------|---|-----------|
| <b>API #:</b>      | 05-123-51779            | <b>State:</b>                             | CO        |
| <b>Well Owner:</b> | PDC Energy              | <b>County:</b>                            | Weld      |
| <b>Lease:</b>      | George                  | <b>Time on Location:</b> 02-29-24 21:00   |           |
| <b>Well Name:</b>  | 09N                     | <b>Plug Down Time:</b> 02-29-24 22:56     |           |
| <b>TD:</b>         | Depth @ 1,979 ft.       | <b>Casing Pressure Test Results (PSI)</b> |           |
| <b>KB:</b>         | Pipe Landed @ 1,969 ft. | Final Lift @                              | 600 PSI   |
| <b>Set:</b>        | Plug Landed @ 1,936 ft. | Landed Plug @                             | 2,543 PSI |
|                    |                         | 10 min                                    | 2,560 PSI |
|                    |                         | 20 min                                    | 2,574 PSI |
|                    |                         | 30 min                                    | 2,581 PSI |

