

# 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: Verdad Resources	Cementer's FIELD TICKET #	334108-D
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## Requested Operator Guidance:

Well Name & Number	Lease	Helen 2536		Well No.	06H
Well API Number	05-123-46826				
Job Date	5/23/22		Time on	2:00 24 hr time	
Job Type	New Well Surface				
Cementing Company	Cementer's Well Service, Inc		Contact	Nate Kvamme - 303-324-4296	
Ambient conditions	clear		39	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	1021	sks (94# equiv)			
f) Mix Fluid Type					
Water / Cement	8.5	Gal / sk			
g) Slurry mixed	292.6	BBLs slurry			
h) Additives used	1.50%	CaCl2	3.00%	Bentonite	
Total Water Used	396.8	BBLs H2O			
i) Displacement Fluid Vol	170.1	BBLs H2O			
j) Method of Placement					
k) Set Depth	2,243	feet (ft)			
l) Stage tool depth	n/a				
m) Float Collar Depth	2,201	feet (ft)			
n) Designed Top of Cement	n/a	to surface			
o) Centralizer depths	0	feet (ft)			

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

Landed Plug @ 1730 psi Final Lift Pressure @ 525 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	5:24	24 hr time
b) Floats held	<input checked="" type="radio"/> Y <input type="radio"/> N		5/23/22	
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	34.0	BBLs to surface	
e) If no returns, top off	n/a	BBLs		
f) Top off detail				
g) Additional Detail	0			
	0			

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DATE: 5/23/22



## Verdad Resources

Lease: Helen 2536

Well: 06H

API# 05-123-46826

Date & Time On	5/23/22	2:00								
Item	Event	Date	Time (24 hr)	Density (PPG)	Pump Rate (BPM)	Incremental (Line Item) Volume (BBLs)	Cumulative Volume (BBLs)	Pressure (PSI)	Comment	
Pre-job	1 Call Out	5/22/22	22:30						Verdad Resources call out w/ 4 hr notice	
	2 Leave Yard	5/22/22	1:17						Cementer's leaves yard to travel to location	
On Location: Pre-job	3 Arrive On Location	5/23/22	2:00						Arrive on location	
	4 Spot Trucks	5/23/22	2:05						Spot trucks on location	
	5 Rig Up	5/23/22	2:07						Rig up water & Cementer's Bulk Truck, prep pump and mixing operation	
	6 Safety Meeting	5/23/22	2:12						Pre-job safety meeting with Ikon12 rig crew, Verdad company man & Cementer's crew	
	7 Rig Up	5/23/22	2:17						Rig up cement head w/plug	
	8 Fill Lines	5/23/22	2:19	8.34	2.00				Fill lines with up to 5 bbls of fresh water	
Initial Job Start	9 Pressure Test	5/23/22	2:21	8.34	-			-	Pressure test pumps and lines	
	10 Pump Spacer	5/23/22	3:20	8.34	4.00	20	20	-	Pump dye fresh water @	20 BBLs
Cementing	11 Pump Cement	5/23/22	3:25	13.90	4.00	292.57	312.57	45	Pump Cement @	1,021 SKS
									Type I/II cement with 1.5% CaCl2 & 3.0% Bentonite @ 1.61 cuft/sk & 13.9 PPG	292.57 BBLs slurry
Displacement	12 Drop Plug	5/23/22	4:45			n/a			Shut down cementing operation & release top plug	
	13 Initial Displacement	5/23/22	4:47	8.34	2.00	4.00	316.57	-	Send plug with 4.0 BBLs H2O @ 2.0 BPM	
	14 Plug Drop Verification	5/23/22	4:51			n/a			Visual verification plug released from head	
	15 Displacement	5/23/22	4:53	8.34	5.00	122.14	434.71	80-450	Continued Displacement with total fresh water @	170.14 BBLs H2O
	16 Spacer To Surface	5/23/22	5:15	8.34	5.00	126.14	438.71	385	Identified Spacer, looking for Cement / green water	
	17 Cement To Surface	5/23/22	5:17	8.34	5.00	136.14	448.71	390	Identify Cement to surface w/	34 BBLs back
	18 Drop Rate	5/23/22	5:22	8.34	2.50	160.14	472.71	400	Drop rate to 2.5 BPM for last 10 BBLs of Displacement to land plug	
Casing Test	19 Land Plug	5/23/22	5:24	8.34	2.50	170.14	482.71	1,730	Land Plug @	1,730 PSI
									with final lift pressure @	525 PSI
								1,730	Start 30 min casing test w/ pressure @	1,730 PSI
								1,733	10 min into casing test, pressure @	1,733 PSI
Post Job & Testing	20 Casing Test	5/23/22	5:24	n/a	0	0	0	1,737	20 min into casing test, pressure @	1,737 PSI
								1,742	30 min into casing test, pressure @	1,742 PSI
								1	BBLs back (.25-1BBL expected)	
									Bleed off pressure, job complete	
Post Job & Testing	25 End Job	5/23/22	5:57						Pre-rig down safety meeting, wash up equipment	
	26 Safety Meeting	5/23/22	5:59						Rig down Cementer's Equipment, leave location	
	27 Rig Down	5/23/22	6:02							

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## Verdad Resources

### Surface Casing Pressure Test - Cement Job Graph

#### COMPANY DETAILS

Date	5/23/22	API #	05-123-46826	Well No.	06H
County	Weld	State	CO	Lease	Helen 2536

Client Verdad Resources

Contact / email

#### JOB DETAILS

TIME ON	2:00	24 hr	Depth	2,257	ft.	Pressure Test @	1,730	psi
START TIME	3:09	5/23/22	Bottom of Surface	2,243	ft.	10 min	1,733	psi
END TIME	6:06	5/23/22	Plug Landed @	2,201	ft.	20 min	1,737	psi
			Plug Landed @	5:24	24 hr	30 min	1,742	psi

#### SUMMARY GRAPH

