

# 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	Cementor's FIELD TICKET #	334111-D
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## Requested Operator Guidance:

Well Name & Number		Lease	Boyd 2413		Well No.	10H	
Well API Number		05-123-46829					
Job Date		5/26/22		Time on	12:30 24 hr time		
Job Type		New Well Surface					
Cementing Company		Cementer's Well Service, Inc		Contact	Nate Kvamme - 303-324-4296		
Ambient conditions		clear		78	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		1037		sks (94# equiv)			
f) Mix Fluid Type							
Water / Cement		8.5		Gal / sk			
g) Slurry mixed		297.3		BBLs slurry			
h) Additives used		1.50% CaCl2		3.00%		Bentonite	
Total Water Used		401.4		BBLs H2O			
i) Displacement Fluid Vol		171.5		BBLs H2O			
j) Method of Placement							
k) Set Depth		2,261		feet (ft)			
l) Stage tool depth		n/a					
m) Float Collar Depth		2,219		feet (ft)			
n) Designed Top of Cement		n/a		to surface			
o) Centralizer depths		0		feet (ft)			

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

Landed Plug @	1640	psi	Final Lift Pressure @	550	psi
Cement Density (as weighed during job) @	13.9	PPG			

## Job notes

a) Plug down	<div><div>Y</div><div>N</div></div>	Time	15:40	24 hr time
b) Floats held	<div><div>Y</div><div>N</div></div>		5/26/22	
c) Full Returns	<div><div>Y</div><div>N</div></div>	Lost Circulation	<div><div>Y</div><div>N</div></div>	
d) Cement to surface	<div><div>Y</div><div>N</div></div>	43.0	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: 5/26/22



## Verdad Resources

Lease: Boyd 2413

Well: 10H

API# 05-123-46829

Date & Time On	5/26/22
	12:30

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	5/26/22	9:00						Verdad Resources call out w/ 4 hr notice
	2 Leave Yard	5/26/22	11:47						Cementer's leaves yard to travel to location
On Location: Pre-job	3 Arrive On Location	5/26/22	12:30						Arrive on location
	4 Spot Trucks	5/26/22	12:35						Spot trucks on location
	5 Rig Up	5/26/22	12:37						Rig up water & Cementer's Bulk Truck, prep pump and mixing operation
	6 Safety Meeting	5/26/22	12:42						Pre-job safety meeting with Ikon12 rig crew, Verdad company man & Cementer's crew
	7 Rig Up	5/26/22	12:47						Rig up cement head w/plug
	8 Fill Lines	5/26/22	12:49	8.34	2.00				Fill lines with up to 5 bbls of fresh water
	9 Pressure Test	5/26/22	12:51	8.34	-			-	Pressure test pumps and lines
Initial Job Start	10 Pump Spacer	5/26/22	13:33	8.34	4.00	20	20	-	Pump dye fresh water @ 20 BBLs
Cementing	11 Pump Cement	5/26/22	13:38	13.90	4.00	297.26	317.26	45	Pump Cement @ 1,037 SKS
									Type I/II cement with 1.5% CaCl2 & 3.0% Bentonite @ 1.61 cuft/sk & 13.9 PPG 297.26 BBLs slurry
Displacement	12 Drop Plug	5/26/22	15:00			n/a			Shut down cementing operation & release top plug
	13 Initial Displacement	5/26/22	15:02	8.34	2.00	4.00	321.26	-	Send plug with 4.0 BBLs H2O @ 2.0 BPM
	14 Plug Drop Verification	5/26/22	15:06			n/a			Visual verification plug released from head
	15 Displacement	5/26/22	15:08	8.34	5.00	114.53	431.79	80-450	Continued Displacement with total fresh water @ 171.53 BBLs H2O
	16 Spacer To Surface	5/26/22	15:31	8.34	5.00	118.53	435.79	385	Identified Spacer, looking for Cement / green water
	17 Cement To Surface	5/26/22	15:33	8.34	5.00	128.53	445.79	390	Identify Cement to surface w/ 43 BBLs back
	18 Drop Rate	5/26/22	15:38	8.34	2.50	161.53	478.79	400	Drop rate to 2.5 BPM for last 10 BBLs of Displacement to land plug
	19 Land Plug	5/26/22	15:40	8.34	2.50	171.53	488.79	1,640	Land Plug @ 1,640 PSI
Casing Test									with final lift pressure @ 550 PSI
	20	Casing Test	5/26/22	15:40	n/a	0	0	1,640	Start 30 min casing test w/ pressure @ 1,640 PSI
	21		5/26/22	15:50	n/a	0	0	1,605	10 min into casing test, pressure @ 1,605 PSI
	22		5/26/22	16:00	n/a	0	0	1,565	20 min into casing test, pressure @ 1,565 PSI
	23		5/26/22	16:10	n/a	0	0	1,510	30 min into casing test, pressure @ 1,510 PSI
Post Job & Testing	24 Check Floats	5/26/22	16:11	n/a	0	0	0	1	BBLs back (.25-1BBL expected)
	25 End Job	5/26/22	16:13						Bleed off pressure, job complete
	26 Safety Meeting	5/26/22	16:15						Pre-rig down safety meeting, wash up equipment
	27 Rig Down	5/26/22	16:18						Rig down Cementer's Equipment, leave location

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## Verdad Resources

### Surface Casing Pressure Test - Cement Job Graph

#### COMPANY DETAILS

Date	5/26/22	API #	05-123-46829	Well No.	10H
County	Weld	State	CO	Lease	Boyd 2413

Client Verdad Resources

Contact / email

#### JOB DETAILS

TIME ON	12:30	24 hr	Depth	2,276	ft.	Pressure Test @	1,640	psi
START TIME	13:30	5/26/22	Bottom of Surface	2,261	ft.	10 min	1,605	psi
END TIME	16:25	5/26/22	Plug Landed @	2,219	ft.	20 min	1,565	psi
			Plug Landed @	15:40	24 hr	30 min	1,510	psi

#### SUMMARY GRAPH

