

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 #	334112-D
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Requested Operator Guidance:

Well Name & Number	Lease	Boyd 2413	Well No.	09H
Well API Number	05-123-46827			
Job Date	5/27/22	Time on	12:15	24 hr time
Job Type	New Well Surface			
Cementing Company	Cementer's Well Service, Inc	Contact	Nate Kvamme - 303-324-4296	
Ambient conditions	clear	85	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	1039	sks (94# equiv)		
f) Mix Fluid Type				
Water / Cement	8.5	Gal / sk		
g) Slurry mixed	297.9	BBLs slurry		
h) Additives used	1.50%	CaCl2	3.00%	Bentonite
Total Water Used	402.0	BBLs H2O		
i) Displacement Fluid Vol	171.8	BBLs H2O		
j) Method of Placement				
k) Set Depth	2,266	feet (ft)		
l) Stage tool depth	n/a			
m) Float Collar Depth	2,222	feet (ft)		
n) Designed Top of Cement	n/a	to surface		
o) Centralizer depths	0	feet (ft)		

Charts - (pressure, density, pump rate)

Landed Plug @ 1680 psi Final Lift Pressure @ 550 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	14:52	24 hr time
b) Floats held	<input checked="" type="radio"/> Y <input type="radio"/> N		5/27/22	
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	38.0	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: 5/27/22



Verdad Resources

Lease: Boyd 2413

Well: 09H

API# 05-123-46827

Date & Time On	5/27/22
	12:15

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	5/27/22	8:30						Verdad Resources call out w/ 4 hr notice
	2 Leave Yard	5/27/22	11:32						Cementer's leaves yard to travel to location
On Location: Pre-job	3 Arrive On Location	5/27/22	12:15						Arrive on location
	4 Spot Trucks	5/27/22	12:20						Spot trucks on location
	5 Rig Up	5/27/22	12:22						Rig up water & Cementer's Bulk Truck, prep pump and mixing operation
	6 Safety Meeting	5/27/22	12:27						Pre-job safety meeting with Ikon12 rig crew, Verdad company man & Cementer's crew
	7 Rig Up	5/27/22	12:32						Rig up cement head w/plug
	8 Fill Lines	5/27/22	12:34	8.34	2.00				Fill lines with up to 5 bbls of fresh water
Initial Job Start	9 Pressure Test	5/27/22	12:36	8.34	-			-	Pressure test pumps and lines
	10 Pump Spacer	5/27/22	12:45	8.34	4.00	20	20	-	Pump dye fresh water @ 20 BBLs
Cementing	11 Pump Cement	5/27/22	12:50	13.90	4.00	297.92	317.92	45	Pump Cement @ 1,039 SKS
									Type I/II cement with 1.5% CaCl2 & 3.0% Bentonite @ 1.61 cuft/sk & 13.9 PPG 297.92 BBLs slurry
Displacement	12 Drop Plug	5/27/22	14:06			n/a			Shut down cementing operation & release top plug
	13 Initial Displacement	5/27/22	14:08	8.34	2.00	4.00	321.92	-	Send plug with 4.0 BBLs H2O @ 2.0 BPM
	14 Plug Drop Verification	5/27/22	14:12			n/a			Visual verification plug released from head
	15 Displacement	5/27/22	14:14	8.34	5.00	119.76	437.68	80-450	Continued Displacement with total fresh water @ 171.76 BBLs H2O
	16 Spacer To Surface	5/27/22	14:43	8.34	5.00	123.76	441.68	385	Identified Spacer, looking for Cement / green water
	17 Cement To Surface	5/27/22	14:45	8.34	5.00	133.76	451.68	390	Identify Cement to surface w/ 38 BBLs back
	18 Drop Rate	5/27/22	14:50	8.34	2.50	161.76	479.68	400	Drop rate to 2.5 BPM for last 10 BBLs of Displacement to land plug
Casing Test	19 Land Plug	5/27/22	14:52	8.34	2.50	171.76	489.68	1,680	Land Plug @ 1,680 PSI
									with final lift pressure @ 550 PSI
								1,680	Start 30 min casing test w/ pressure @ 1,680 PSI
								1,682	10 min into casing test, pressure @ 1,682 PSI
								1,675	20 min into casing test, pressure @ 1,675 PSI
Post Job & Testing	24 Check Floats	5/27/22	15:23	n/a	0	0	0	1,660	30 min into casing test, pressure @ 1,660 PSI
									BBLs back (.25-1BBL expected)
									Bleed off pressure, job complete
									Pre-rig down safety meeting, wash up equipment
									Rig down Cementer's Equipment, leave location

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Surface Casing Pressure Test - Cement Job Graph

COMPANY DETAILS

Date	5/27/22	API #	05-123-46827	Well No.	09H
County	Weld	State	CO	Lease	Boyd 2413

Client Verdad Resources

Contact / email

JOB DETAILS

TIME ON	12:15	24 hr	Depth	2,281	ft.	Pressure Test @	1,680	psi
START TIME	12:44	5/27/22	Bottom of Surface	2,266	ft.	10 min	1,682	psi
END TIME	15:40	5/27/22	Plug Landed @	2,222	ft.	20 min	1,675	psi
			Plug Landed @	14:52	24 hr	30 min	1,660	psi

SUMMARY GRAPH

