

# 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 #	334056-D
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## Requested Operator Guidance:

Well Name & Number	Lease	Timbro	Well No.	0101 - 11H
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Well API Number	05-123-51085
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Job Date	12/4/21	Time on	0:15	24 hr time
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Job Type	New Well Surface
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Cementing Company	Cementor's Well Service, Inc	Contact	Nate Kvamme - 303-324-4296
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Ambient conditions	clear	32	temp deg F
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Slurry Description	
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a) Purpose	Surface - 9 5/8" 36# CSG, 13 1/2" hole
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b) Cement Class	Type I / II
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c) Cement Yield	1.61	cuft / sk
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d) Cement Density	13.9	PPG
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e) Number of sks	664	sks (94# equiv)
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f) Mix Fluid Type	
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Water / Cement	8.5	Gal / sk
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g) Slurry mixed	190.3	BBLs slurry
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h) Additives used	1.50% CaCl2	3.00% Bentonite
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Total Water Used	278.1	BBLs H2O
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i) Displacement Fluid Vol	123.7	BBLs H2O
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j) Method of Placement	
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k) Set Depth	1,629	feet (ft)
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l) Stage tool depth	n/a
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m) Float Collar Depth	1,600	feet (ft)
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n) Designed Top of Cement	n/a	to surface
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o) Centralizer depths	0	feet (ft)
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## Charts - (pressure, density, pump rate)

Landed Plug @	1756	psi	Final Lift Pressure @	500	psi
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Cement Density (as weighed during job) @	13.9	PPG
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## Job notes

a) Plug down	<input checked="" type="radio"/> Y / <input type="radio"/> N	Time	2:45	24 hr time
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b) Floats held	<input checked="" type="radio"/> Y / <input type="radio"/> N	12/4/21
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c) Full Returns	<input checked="" type="radio"/> Y / <input type="radio"/> N	Lost Circulation	<input checked="" type="radio"/> Y / <input type="radio"/> N
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d) Cement to surface	<input checked="" type="radio"/> Y / <input type="radio"/> N	8.0	BBLs to surface
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e) If no returns, top off	n/a	BBLs
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f) Top off detail	
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DATE: 12/4/21



## Verdad Resources

Lease: Timbro  
Well: 0101 - 11H  
API# 05-123-51085

Date & Time On	12/4/21
	0:15

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	12/3/21	20:00						Verdad Resources Call out w/ 4 hr notice
	2 Leave Yard	12/4/21	#####						Cementers leaves yard to travel to location
On Location: Pre-job	3 Arrive On Location	12/4/21	0:15						Arrive on location
	4 Spot Trucks	12/4/21	0:20						Spot trucks on location
	5 Rig Up	12/4/21	0:22						Rig up water & Cementer's Bulk Truck, prep pump and mixing operation
	6 Safety Meeting	12/4/21	0:27						Pre-job safety meeting with IKON12 rig crew, Verdad Company-person & Cementer's crew
	7 Rig Up	12/4/21	0:32						Rig up cement head w/plug
	8 Fill Lines	12/4/21	0:34	8.34	2.00				Fill lines with up to 5 bbls of fresh water
	9 Pressure Test	12/4/21	0:00	8.34	-			-	Pressure test pumps and lines
Initial Job Start	10 Pump Spacer	12/4/21	1:17	8.34	4.00	20	20	-	Pump dye fresh water @ 20 BBLs
Cementing	11 Pump Cement	12/4/21	1:22	13.90	4.00	190.28	210.28	45	Pump Cement @ 664 SKS
									Type I/II cement with 1.5% CaCl2 & 3.0% Bentonite @ 1.61 cuft/sk & 13.9 PPG 190.28 BBLs slurry
Displacement	12 Drop Plug	12/4/21	2:14			n/a			Shut down cementing operation & release top plug
	13 Initial Displacement	12/4/21	2:16	8.34	2.00	4.00	214.28	-	Send plug with 4.0 BBLs H2O @ 2.0 BPM
	14 Plug Drop Verification	12/4/21	2:16			n/a			Visual verification plug released from head
	15 Displacement	12/4/21	2:18	8.34	5.00	101.68	311.96	80-450	Continued Displacement with total fresh water @ 123.68 BBLs H2O
	16 Spacer To Surface	12/4/21	2:35	8.34	5.00	105.68	315.96	385	Identified Spacer, looking for Cement / green water
	17 Cement To Surface	12/4/21	2:38	8.34	5.00	115.68	325.96	390	Identify Cement to surface w/ 8 BBLs back
	18 Drop Rate	12/4/21	2:43	8.34	2.50	113.68	323.96	400	Drop rate to 2.5 BPM for last 10 BBLs of Displacement to land plug
	19 Land Plug	12/4/21	2:45	8.34	2.50	123.68	333.96	1,756	Land Plug @ 1,756 PSI
Casing Test	Casing Test	12/4/21	2:45	n/a	0	0	0	1,756	Start 30 min casing test w/ pressure @ 1,756 PSI
		12/4/21	2:55	n/a	0	0	0	1,773	10 min into casing test, pressure @ 1,773 PSI
		12/4/21	3:05	n/a	0	0	0	1,777	20 min into casing test, pressure @ 1,777 PSI
		12/4/21	3:15	n/a	0	0	0	1,779	30 min into casing test, pressure @ 1,779 PSI
		12/4/21	3:16	n/a	0	0	0	1	BBLs back (.25-1BBL expected)
Post Job & Testing	24 Check Floats	12/4/21	3:16						Bleed off pressure, job complete
	25 End Job	12/4/21	3:18						Pre-rig down safety meeting, wash up equipment
	26 Safety Meeting	12/4/21	3:20						Pre-rig down safety meeting, wash up equipment
	27 Rig Down	12/4/21	3:23						Rig down Cementer's Equipment, leave location

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Verdad Resources

## Surface Cement Job Graph

### COMPANY DETAILS

Date	12/4/21	API #	05-123-51085	Well No.	0101 - 11H
County	Weld	State	CO	Lease	Timbro

Client Verdad Resources

Contact / email

### JOB DETAILS

### PRESSURE TEST

TIME ON	0:15	12/4/21	Depth	1,643	ft.	Plug Landed @	1,756	psi
START TIME	1:15	12/4/21	Bottom of Surface	1,629	ft.	10 min	1,773	psi
END TIME	3:18	12/4/21	Plug Landed @	1,600	ft.	20 min	1,777	psi
			Plug Landed @	2:45	24 hr	30 min	1,779	psi

### SUMMARY GRAPH

