

# 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 #	334054-D
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## Requested Operator Guidance:

Well Name & Number	Lease	Timbro	Well No.	0101 - 16H
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Well API Number	05-123-51086
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Job Date	12/2/21	Time on	13:00	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	62	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	785	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	224.9	BBLs slurry
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h) Additives used	1.50% CaCl2	3.00% Bentonite
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Total Water Used	307.9	BBLs H2O
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i) Displacement Fluid Vol	129.0	BBLs H2O
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j) Method of Placement	
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k) Set Depth	1,708	feet (ft)
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l) Stage tool depth	n/a
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m) Float Collar Depth	1,669	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 @	1678	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	Y / N	Time	17:18	24 hr time
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b) Floats held	Y / N	12/2/21
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c) Full Returns	Y / N	Lost Circulation	Y / N
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d) Cement to surface	Y / N	34.0	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: 12/2/21



## Verdad Resources

Lease: Timbro  
Well: 0101 - 16H  
API# 05-123-51086

Date & Time On	12/2/21	13:00								
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	12/2/21	9:00						Verdad Resources Call out w/ 4 hr notice	
	2 Leave Yard	12/2/21	12:15						Cementers leaves yard to travel to location	
On Location: Pre-job	3 Arrive On Location	12/2/21	13:00						Arrive on location	
	4 Spot Trucks	12/2/21	13:05						Spot trucks on location	
	5 Rig Up	12/2/21	13:07						Rig up water & Cementer's Bulk Truck, prep pump and mixing operation	
	6 Safety Meeting	12/2/21	13:12						Pre-job safety meeting with IKON12 rig crew, Verdad Company-person & Cementer's crew	
	7 Rig Up	12/2/21	13:17						Rig up cement head w/plug	
	8 Fill Lines	12/2/21	13:19	8.34	2.00				Fill lines with up to 5 bbls of fresh water	
Initial Job Start	9 Pressure Test	12/2/21	0:00	8.34	-			-	Pressure test pumps and lines	
	10 Pump Spacer	12/2/21	15:37	8.34	4.00	20	20	-	Pump dye fresh water @	20 BBLs
Cementing	11 Pump Cement	12/2/21	15:42	13.90	4.00	224.93	244.93	45	Pump Cement @	785 SKS
									Type I/II cement with 1.5% CaCl2 & 3.0% Bentonite @ 1.61 cuft/sk & 13.9 PPG	224.93 BBLs slurry
Displacement	12 Drop Plug	12/2/21	16:47			n/a			Shut down cementing operation & release top plug	
	13 Initial Displacement	12/2/21	16:49	8.34	2.00	4.00	248.93	-	Send plug with 4.0 BBLs H2O @ 2.0 BPM	
	14 Plug Drop Verification	12/2/21	16:49			n/a			Visual verification plug released from head	
	15 Displacement	12/2/21	16:51	8.34	5.00	81.01	325.94	80-450	Continued Displacement with total fresh water @	129.01 BBLs H2O
	16 Spacer To Surface	12/2/21	17:08	8.34	5.00	85.01	329.94	385	Identified Spacer, looking for Cement / green water	
	17 Cement To Surface	12/2/21	17:11	8.34	5.00	95.01	339.94	390	Identify Cement to surface w/	34 BBLs back
	18 Drop Rate	12/2/21	17:16	8.34	2.50	119.01	363.94	400	Drop rate to 2.5 BPM for last 10 BBLs of Displacement to land plug	
Casing Test	19 Land Plug	12/2/21	17:18	8.34	2.50	129.01	373.94	1,678	Land Plug @	1,678 PSI
									with final lift pressure @	500 PSI
								1,678	Start 30 min casing test w/ pressure @	1,678 PSI
								1,689	10 min into casing test, pressure @	1,689 PSI
								1,698	20 min into casing test, pressure @	1,698 PSI
Post Job & Testing	20 Check Floats	12/2/21	17:18	n/a	0	0	0	1,699	30 min into casing test, pressure @	1,699 PSI
	21 End Job	12/2/21	17:51						BBLs back (.25-1BBL expected)	
	22 Safety Meeting	12/2/21	17:53						Bleed off pressure, job complete	
	27 Rig Down	12/2/21	17:56						Pre-rig down safety meeting, wash up equipment	
									Rig down Cementer's Equipment, leave location	

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Verdad Resources

## Surface Cement Job Graph

### COMPANY DETAILS

Date	12/2/21	API #	05-123-51086	Well No.	0101 - 16H
County	Weld	State	CO	Lease	Timbro

Client Verdad Resources

Contact / email

### JOB DETAILS

### PRESSURE TEST

TIME ON	13:00	12/2/21	Depth	1,722	ft.	Plug Landed @	1,678	psi
START TIME	15:36	12/2/21	Bottom of Surface	1,708	ft.	10 min	1,689	psi
END TIME	17:55	12/2/21	Plug Landed @	1,669	ft.	20 min	1,698	psi
			Plug Landed @	17:18	24 hr	30 min	1,699	psi

### SUMMARY GRAPH

