

# 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 #	334057-D
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## Requested Operator Guidance:

Well Name & Number	Lease	Timbro	Well No.	0101 - 9H
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Well API Number	05-123-51082
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Job Date	12/4/21	Time on	18:15	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	36	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	698	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	200.1	BBLs slurry
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h) Additives used	1.50% CaCl2	3.00% Bentonite
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Total Water Used	285.3	BBLs H2O
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i) Displacement Fluid Vol	124.0	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	1,604	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 @	1720	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	20:51	24 hr time
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b) Floats held	Y / N	12/4/21
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c) Full Returns	Y / N	Lost Circulation	Y / N
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d) Cement to surface	Y / N	12.0	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 - 9H  
API# 05-123-51082

Date & Time On	12/4/21
	18:15

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	12/4/21	13:15						Verdad Resources Call out w/ 4 hr notice
	2 Leave Yard	12/4/21	17:30						Cementor's leaves yard to travel to location
On Location: Pre-job	3 Arrive On Location	12/4/21	18:15						Arrive on location
	4 Spot Trucks	12/4/21	18:20						Spot trucks on location
	5 Rig Up	12/4/21	18:22						Rig up water & Cementor's Bulk Truck, prep pump and mixing operation
	6 Safety Meeting	12/4/21	18:27						Pre-job safety meeting with IKON12 rig crew, Verdad Company-person & Cementor's crew
	7 Rig Up	12/4/21	18:32						Rig up cement head w/plug
	8 Fill Lines	12/4/21	18:34	8.34	2.00				Fill lines with up to 5 bbls of fresh water
Initial Job Start	9 Pressure Test	12/4/21	0:00	8.34	-			-	Pressure test pumps and lines
	10 Pump Spacer	12/4/21	19:17	8.34	4.00	20	20	-	Pump dye fresh water @ 20 BBLs
Cementing	11 Pump Cement	12/4/21	19:22	13.90	4.00	200.06	220.06	45	Pump Cement @ 698 SKS
									Type I/II cement with 1.5% CaCl2 & 3.0% Bentonite @ 1.61 cuft/sk & 13.9 PPG 200.06 BBLs slurry
Displacement	12 Drop Plug	12/4/21	20:22			n/a			Shut down cementing operation & release top plug
	13 Initial Displacement	12/4/21	20:24	8.34	2.00	4.00	224.06	-	Send plug with 4.0 BBLs H2O @ 2.0 BPM
	14 Plug Drop Verification	12/4/21	20:24			n/a			Visual verification plug released from head
	15 Displacement	12/4/21	20:26	8.34	5.00	97.99	318.05	80-450	Continued Displacement with total fresh water @ 123.99 BBLs H2O
	16 Spacer To Surface	12/4/21	20:41	8.34	5.00	101.99	322.05	385	Identified Spacer, looking for Cement / green water
	17 Cement To Surface	12/4/21	20:44	8.34	5.00	111.99	332.05	390	Identify Cement to surface w/ 12 BBLs back
	18 Drop Rate	12/4/21	20:49	8.34	2.50	113.99	334.05	400	Drop rate to 2.5 BPM for last 10 BBLs of Displacement to land plug
Casing Test	19 Land Plug	12/4/21	20:51	8.34	2.50	123.99	344.05	1,720	Land Plug @ 1,720 PSI
									with final lift pressure @ 500 PSI
	20		12/4/21 20:51	n/a	0	0	0	1,720	Start 30 min casing test w/ pressure @ 1,720 PSI
	21		12/4/21 21:01	n/a	0	0	0	1,714	10 min into casing test, pressure @ 1,714 PSI
	22		12/4/21 21:11	n/a	0	0	0	1,714	20 min into casing test, pressure @ 1,714 PSI
Post Job & Testing	23		12/4/21 21:21	n/a	0	0	0	1,714	30 min into casing test, pressure @ 1,714 PSI
	24 Check Floats	12/4/21	21:22	n/a	0	0	0	1	BBLs back (.25-1BBL expected)
	25 End Job	12/4/21	21:24						Bleed off pressure, job complete
	26 Safety Meeting	12/4/21	21:26						Pre-rig down safety meeting, wash up equipment
	27 Rig Down	12/4/21	21:29						Rig down Cementor's Equipment, leave location

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Verdad Resources

## Surface Cement Job Graph

### COMPANY DETAILS

Date	12/4/21	API #	05-123-51082	Well No.	0101 - 9H
County	Weld	State	CO	Lease	Timbro

Client Verdad Resources

Contact / email

### JOB DETAILS

### PRESSURE TEST

TIME ON	18:15	12/4/21	Depth	1,643	ft.	Plug Landed @	1,720	psi
START TIME	19:16	12/4/21	Bottom of Surface	1,629	ft.	10 min	1,714	psi
END TIME	21:28	12/4/21	Plug Landed @	1,604	ft.	20 min	1,714	psi
			Plug Landed @	20:51	24 hr	30 min	1,714	psi

### SUMMARY GRAPH

