

# 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 #	334060-D
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## Requested Operator Guidance:

Well Name & Number	Lease	Timbro	Well No.	0101 - 03H
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Well API Number	05-123-51087
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Job Date	12/7/21	Time on	8:00	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	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	789	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	226.1	BBLs slurry
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h) Additives used	1.50% CaCl2	3.00% Bentonite
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Total Water Used	310.4	BBLs H2O
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i) Displacement Fluid Vol	130.7	BBLs H2O
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j) Method of Placement	
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k) Set Depth	1,732	feet (ft)
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l) Stage tool depth	n/a
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m) Float Collar Depth	1,691	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 @	1764	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	10:29	24 hr time
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b) Floats held	<input checked="" type="radio"/> Y / <input type="radio"/> N	12/7/21
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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	30.0	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: 12/7/21



## Verdad Resources

Lease: Timbro  
Well: 0101 - 03H  
API# 05-123-51087

Date & Time On	12/7/21
	8:00

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	12/7/21	3:30						Verdad Resources Call out w/ 4 hr notice
	2 Leave Yard	12/7/21	7:15						Cementor's leaves yard to travel to location
On Location: Pre-job	3 Arrive On Location	12/7/21	8:00						Arrive on location
	4 Spot Trucks	12/7/21	8:05						Spot trucks on location
	5 Rig Up	12/7/21	8:07						Rig up water & Cementor's Bulk Truck, prep pump and mixing operation
	6 Safety Meeting	12/7/21	8:12						Pre-job safety meeting with IKON12 rig crew, Verdad Company-person & Cementor's crew
	7 Rig Up	12/7/21	8:17						Rig up cement head w/plug
	8 Fill Lines	12/7/21	8:19	8.34	2.00				Fill lines with up to 5 bbls of fresh water
Initial Job Start	9 Pressure Test	12/7/21	0:00	8.34	-			-	Pressure test pumps and lines
	10 Pump Spacer	12/7/21	8:54	8.34	4.00	20	20	-	Pump dye fresh water @ 20 BBLs
Cementing	11 Pump Cement	12/7/21	8:59	13.90	4.00	226.12	246.12	45	Type I/II cement with 1.5% CaCl2 & 3.0% Bentonite @ 1.61 cuft/sk & 13.9 PPG
									226.12 BBLs slurry
Displacement	12 Drop Plug	12/7/21	9:57			n/a			Shut down cementing operation & release top plug
	13 Initial Displacement	12/7/21	9:59	8.34	2.00	4.00	250.12	-	Send plug with 4.0 BBLs H2O @ 2.0 BPM
	14 Plug Drop Verification	12/7/21	9:59			n/a			Visual verification plug released from head
	15 Displacement	12/7/21	10:01	8.34	5.00	86.71	332.84	80-450	Continued Displacement with total fresh water @ 130.71 BBLs H2O
	16 Spacer To Surface	12/7/21	10:19	8.34	5.00	90.71	336.84	385	Identified Spacer, looking for Cement / green water
	17 Cement To Surface	12/7/21	10:22	8.34	5.00	100.71	346.84	390	Identify Cement to surface w/ 30 BBLs back
	18 Drop Rate	12/7/21	10:27	8.34	2.50	120.71	366.84	400	Drop rate to 2.5 BPM for last 10 BBLs of Displacement to land plug
Casing Test	19 Land Plug	12/7/21	10:29	8.34	2.50	130.71	376.84	1,764	Land Plug @ 1,764 PSI
									with final lift pressure @ 500 PSI
	20	12/7/21	10:29	n/a	0	0	0	1,764	Start 30 min casing test w/ pressure @ 1,764 PSI
	21	12/7/21	10:39	n/a	0	0	0	1,764	10 min into casing test, pressure @ 1,764 PSI
	22	12/7/21	10:49	n/a	0	0	0	1,764	20 min into casing test, pressure @ 1,764 PSI
Post Job & Testing	23	12/7/21	10:59	n/a	0	0	0	1,761	30 min into casing test, pressure @ 1,761 PSI
	24 Check Floats	12/7/21	11:00	n/a	0	0	0	1	BBLs back (.25-1BBL expected)
	25 End Job	12/7/21	11:02						Bleed off pressure, job complete
	26 Safety Meeting	12/7/21	11:04						Pre-rig down safety meeting, wash up equipment
	27 Rig Down	12/7/21	11:07						Rig down Cementor's Equipment, leave location

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Verdad Resources

## Surface Cement Job Graph

### COMPANY DETAILS

Date	12/7/21	API #	05-123-51087	Well No.	0101 - 03H
County	Weld	State	CO	Lease	Timbro

Client Verdad Resources

Contact / email

### JOB DETAILS

### PRESSURE TEST

TIME ON	8:00	12/7/21	Depth	1,746	ft.	Plug Landed @	1,764	psi
START TIME	8:52	12/7/21	Bottom of Surface	1,732	ft.	10 min	1,764	psi
END TIME	11:05	12/7/21	Plug Landed @	1,691	ft.	20 min	1,764	psi
			Plug Landed @	10:29	24 hr	30 min	1,761	psi

### SUMMARY GRAPH

