

# 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: Great Western Operating	Cementor's FIELD TICKET #	334036-D
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## Requested Operator Guidance:

Well Name & Number	Lease	County Line 3130	Well No.	04H
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Well API Number	05-123-51164
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Job Date	8/29/21	Time on	13:30	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 / rain / snow / other	90	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	1092 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	313.0 BBLs slurry
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h) Additives used	1.50% CaCl2 3.00% Bentonite
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Total Water Used	422.7 BBLs H2O
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i) Displacement Fluid Vol	181.7 BBLs H2O
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j) Method of Placement	
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k) Set Depth	2,393 feet (ft)
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l) Stage tool depth	n/a
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m) Float Collar Depth	2,351 feet (ft)
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n) Designed Top of Cement	n/a to surface	feet (ft)
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o) Centralizer depths	0
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## Charts - (pressure, density, pump rate)

Landed Plug @	1604 psi	Final Lift Pressure @	650 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	17:09	24 hr time
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b) Floats held	Y / N	8/29/21
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c) Full Returns	Y / N	Lost Circulation	Y / N
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d) Cement to surface	Y / N	25.0 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: 8/29/21



## Verdad Resources

Lease: County Line 3130

Well: 04H

API# 05-123-51164

Date & Time On	8/29/21
	13:30

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	8/29/21	9:30						Verdad Resources call out w/ 4 hr notice
	2 Leave Yard	8/29/21	12:45						Cementers leaves yard to travel to location
On Location: Pre-job	3 Arrive On Location	8/29/21	13:30						Arrive on location
	4 Spot Trucks	8/29/21	13:35						Spot trucks on location
	5 Rig Up	8/29/21	13:37						Rig up water & Cementer's Bulk Truck, prep pump and mixing operation
	6 Safety Meeting	8/29/21	13:42						Pre-job safety meeting with IKON12 rig crew, Verdad company man & Cementer's crew
	7 Rig Up	8/29/21	13:47						Rig up cement head w/plug
	8 Fill Lines	8/29/21	13:49	8.34	2.00				Fill lines with up to 5 bbls of fresh water
Initial Job Start	9 Pressure Test	8/29/21	0:00	8.34	-			-	Pressure test pumps and lines
	10 Pump Spacer	8/29/21	14:57	8.34	4.00	20	20	-	Pump dye fresh water @ 20 BBLs
Cementing	11 Pump Cement	8/29/21	15:02	13.90	4.00	313.05	333.05	45	Pump Cement @ 1,092 SKS
									Type I/II cement with 1.5% CaCl2 & 3.0% Bentonite @ 1.61 cuft/sk & 13.9 PPG 313.05 BBLs slurry
Displacement	12 Drop Plug	8/29/21	16:22			n/a			Shut down cementing operation & release top plug
	13 Initial Displacement	8/29/21	16:24	8.34	2.00	4.00	337.05	-	Send plug with 4.0 BBLs H2O @ 2.0 BPM
	14 Plug Drop Verification	8/29/21	16:28			n/a			Visual verification plug released from head
	15 Displacement	8/29/21	16:30	8.34	5.00	142.73	475.78	80-450	Continued Displacement with total fresh water @ 181.7 BBLs H2O
	16 Spacer To Surface	8/29/21	16:59	8.34	5.00	146.73	479.78	385	Identified Spacer, looking for Cement / green water
	17 Cement To Surface	8/29/21	17:02	8.34	5.00	156.73	489.78	390	Identify Cement to surface w/ 25 BBLs back
	18 Drop Rate	8/29/21	17:07	8.34	2.50	171.73	504.78	400	Drop rate to 2.5 BPM for last 10 BBLs of Displacement to land plug
Casing Test	19 Land Plug	8/29/21	17:09	8.34	2.50	181.73	514.78	1,604	Land Plug @ 1,604 PSI
									with final lift pressure @ 650 PSI
	20	Casing Test	8/29/21	17:09	n/a	0	0	1,604	Start 30 min casing test w/ pressure @ 1,604 PSI
	21		8/29/21	17:19	n/a	0	0	1,556	10 min into casing test, pressure @ 1,556 PSI
	22		8/29/21	17:29	n/a	0	0	1,527	20 min into casing test, pressure @ 1,527 PSI
	23		8/29/21	17:39	n/a	0	0	1,523	30 min into casing test, pressure @ 1,523 PSI
Post Job & Testing	24 Check Floats	8/29/21	17:40	n/a	0	0	0	1.00	BBLs back (.25-1BBL expected)
	25 End Job	8/29/21	17:42						Bleed off pressure, job complete
	26 Safety Meeting	8/29/21	17:44						Pre-rig down safety meeting, wash up equipment
	27 Rig Down	8/29/21	17:47						Rig down Cementer's Equipment, leave location

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Verdad Resources

## Surface Cement Job Graph

### COMPANY DETAILS

Date	8/29/21	API #	05-123-51164	Well No.	04H
County	Weld	State	CO	Lease	County Line 3130

Client Verdad Resources

Contact / email

### JOB DETAILS

TIME ON	13:30	24 hr	Depth	1,408	ft.	Pressure Test @	1,604	psi
START TIME	18:40	8/29/21	Bottom of Surface	2,393	ft.	10 min	1,556	psi
END TIME	21:15	8/29/21	Plug Landed @	2,351	ft.	20 min	1,527	psi
			Plug Landed @	17:09	24 hr	30 min	1,523	psi

### SUMMARY GRAPH

