

# 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	Cementer's FIELD TICKET #	334185-D
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**Requested Operator Guidance:**

Well Name & Number	Lease	Fawn 2833	Well No.	01H
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Well API Number	05-123-51845
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Job Date	12/13/22	Time on	16:00	12/13/22	24 hr time
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Job Type	New Well Surface
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Cementing Company	Cementer's Well Service, Inc	Contact	Nate Kvamme - 303-324-4296
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Ambient conditions	clear	24	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	1,081	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	309.8	BBLs slurry
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h) Additives used	1.50% CaCl2	3.00% Bentonite
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Total Water Used	424.3	BBLs H2O
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i) Displacement Fluid Vol	185.5	BBLs H2O
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j) Method of Placement	
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k) Set Depth	2,441	feet (ft)
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l) Stage tool depth	n/a
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m) Float Collar Depth	2,400	feet (ft)
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n) Designed Top of Cement	n/a	to surface
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o) Centralizer depths		feet (ft)
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**Charts - (pressure, density, pump rate)**

Landed Plug @	1,638	psi	Final Lift Pressure @	495	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	21:56	24 hr time
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b) Floats held	<input checked="" type="radio"/> Y / <input type="radio"/> N		12/13/22
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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	50.0	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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g) Additional Detail	0
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DATE: 12/13/22



## Verdad Resources

Lease: Fawn 2833

Well: 01H

API# 05-123-51845

Date & Time On	12/13/22 16:00
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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	12/13/22	12:00						Verdad Resources call out w/ 4 hr notice	
	2 Leave Yard	12/13/22	15:00						Cementer's leaves yard to travel to location	
On Location: Pre-job	3 Arrive On Location	12/13/22	16:00						Arrive on location	
	4 Spot Trucks	12/13/22	16:05						Spot trucks on location	
	5 Rig Up	12/13/22	16:07						Rig up water & Cementer's Bulk Truck, prep pump and mixing operation	
	6 Safety Meeting	12/13/22	16:12						Pre-job safety meeting with lkon12 rig crew, Verdad company man & Cementer's crew	
	7 Rig Up	12/13/22	16:17						Rig up cement head w/plug	
	8 Fill Lines	12/13/22	16:19	8.34	2.00				Fill lines with up to 5 bbls of fresh water	
Initial Job Start	9 Pressure Test	12/13/22	16:19	8.34	-			2,000	Pressure test pumps and lines	
	10 Pump Spacer	12/13/22	19:42	8.34	4.00	20	20	-	Pump dye fresh water @ 20 BBLs	
Cementing	11 Pump Cement	12/13/22	19:47	13.90	4.00	309.76	329.76	45	Pump Cement @ 1,081 SKS	
									Type I/II cement with 1.5% CaCl2 & 3.0% Bentonite @ 1.61 cuft/sk & 13.9 PPG	309.76 BBLs slurry
Displacement	12 Drop Plug	12/13/22	21:07			n/a			Shut down cementing operation & release top plug	
	13 Initial Displacement	12/13/22	21:09	8.34	2.00	4.00	333.76	-	Send plug with 4.0 BBLs H2O @ 2.0 BPM	
	14 Plug Drop Verification	12/13/22	21:13			n/a			Visual verification plug released from head	
	15 Displacement	12/13/22	21:15	8.34	5.00	121.52	451.28	80-450	Continued Displacement with total fresh water @ 185.52 BBLs H2O	
	16 Spacer To Surface	12/13/22	21:37	8.34	5.00	125.52	455.28	455	Identified Spacer, looking for Cement / green water	
	17 Cement To Surface	12/13/22	21:51	8.34	5.00	135.52	465.28	475	Identify Cement to surface w/ 50 BBLs back	
	18 Drop Rate	12/13/22	21:53	8.34	2.50	175.52	505.28	495	Drop rate to 2.5 BPM for last 10 BBLs of Displacement to land plug	
19 Land Plug	12/13/22	21:56	8.34	2.50	185.52	515.28	1,638	Land Plug @ 1,638 PSI		
								with final lift pressure @ 495 PSI		
Casing Test	Casing Test	12/13/22	21:56	n/a	n/a			1,638	Start 30 min casing test w/ pressure @ 1,638 PSI	
									1,650	10 min into casing test, pressure @ 1,650 PSI
									1,662	20 min into casing test, pressure @ 1,662 PSI
									1,672	30 min into casing test, pressure @ 1,672 PSI
Post Job & Testing	24 Check Floats	12/13/22	22:27	n/a				1	BBLs back (.25-1BBL expected)	
	25 End Job	12/13/22	22:29						Bleed off pressure, job complete	
	26 Safety Meeting	12/13/22	22:31						Pre-rig down safety meeting, wash up equipment	
	27 Rig Down	12/13/22	22:34						Rig down Cementer's Equipment, leave location	

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Verdad Resources

## Surface Casing Pressure Test - Cement Job Graph

### COMPANY DETAILS

Date	12/13/22	API #	05-123-51845	Well No.	01H
County	Weld	State	CO	Lease	Fawn 2833

Client Verdad Resources

Contact / email \_\_\_\_\_

### JOB DETAILS

TIME ON	16:00	#####	Depth	2,456	ft.	Pressure Test @	1,638	psi
START TIME	19:40	#####	Bottom of Surface	2,441	ft.	10 min	1,650	psi
END TIME	22:34	#####	Plug Landed @	2,400	ft.	20 min	1,662	psi
			Plug Landed @	21:56	24 hr	30 min	1,672	psi

### SUMMARY GRAPH

