

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 #	334110-D
--------------------------	------------------------------	----------

Requested Operator Guidance:

Well Name & Number	Lease	Boyd 2413	Well No.	11H
Well API Number	05-123-46831			
Job Date	5/25/22	Time on	11:30	24 hr time
Job Type	New Well Surface			
Cementing Company	Cementer's Well Service, Inc	Contact	Nate Kvamme - 303-324-4296	
Ambient conditions	clear	55	temp deg F	
Slurry Description				
a) Purpose	Surface - 9 5/8" 36# CSG, 13 1/2" hole			
b) Cement Class	Type I / II			
c) Cement Yield	1.61	cuft / sk		
d) Cement Density	13.9	PPG		
e) Number of sks	1193	sks (94# equiv)		
f) Mix Fluid Type				
Water / Cement	8.5	Gal / sk		
g) Slurry mixed	341.8	BBLs slurry		
h) Additives used	1.50%	CaCl2	3.00%	Bentonite
Total Water Used	435.9	BBLs H2O		
i) Displacement Fluid Vol	174.5	BBLs H2O		
j) Method of Placement				
k) Set Depth	2,298	feet (ft)		
l) Stage tool depth	n/a			
m) Float Collar Depth	2,257	feet (ft)		
n) Designed Top of Cement	n/a	to surface		
o) Centralizer depths	0	feet (ft)		

Charts - (pressure, density, pump rate)

Landed Plug @ 1663 psi Final Lift Pressure @ 475 psi

Cement Density (as weighed during job) @ 13.9 PPG

Job notes

a) Plug down	<input checked="" type="radio"/> Y <input type="radio"/> N	Time	15:02	24 hr time
b) Floats held	<input checked="" type="radio"/> Y <input type="radio"/> N		5/25/22	
c) Full Returns	<input checked="" type="radio"/> Y <input type="radio"/> N	Lost Circulation	<input checked="" type="radio"/> Y <input type="radio"/> N	
d) Cement to surface	<input checked="" type="radio"/> Y <input type="radio"/> N	89.0	BBLs to surface	
e) If no returns, top off	n/a	BBLs		
f) Top off detail				
g) Additional Detail	0			
	0			

Surface Cement Job Report - Cementer's Well Service, Inc.

P.O. BOX 336220 • GREELEY, CO 80633 • (970) 353-7299 • FAX (970) 353-7712

DATE: 5/25/22



Verdad Resources

Lease: Boyd 2413

Well: 11H

API# 05-123-46831

Date & Time On	5/25/22
	11:30

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	5/25/22	8:30						Verdad Resources call out w/ 4 hr notice
	2 Leave Yard	5/25/22	10:47						Cementer's leaves yard to travel to location
On Location: Pre-job	3 Arrive On Location	5/25/22	11:30						Arrive on location
	4 Spot Trucks	5/25/22	11:35						Spot trucks on location
	5 Rig Up	5/25/22	11:37						Rig up water & Cementer's Bulk Truck, prep pump and mixing operation
	6 Safety Meeting	5/25/22	11:42						Pre-job safety meeting with Ikon12 rig crew, Verdad company man & Cementer's crew
	7 Rig Up	5/25/22	11:47						Rig up cement head w/plug
	8 Fill Lines	5/25/22	11:49	8.34	2.00				Fill lines with up to 5 bbls of fresh water
	9 Pressure Test	5/25/22	11:51	8.34	-			-	Pressure test pumps and lines
Initial Job Start	10 Pump Spacer	5/25/22	12:57	8.34	4.00	20	20	-	Pump dye fresh water @ 20 BBLs
Cementing	11 Pump Cement	5/25/22	13:02	13.90	4.00	341.80	361.80	45	Pump Cement @ 1,193 SKS
									Type I/II cement with 1.5% CaCl2 & 3.0% Bentonite @ 1.61 cuft/sk & 13.9 PPG 341.80 BBLs slurry
Displacement	12 Drop Plug	5/25/22	5:14			n/a			Shut down cementing operation & release top plug
	13 Initial Displacement	5/25/22	5:16	8.34	2.00	4.00	365.80	-	Send plug with 4.0 BBLs H2O @ 2.0 BPM
	14 Plug Drop Verification	5/25/22	5:20			n/a			Visual verification plug released from head
	15 Displacement	5/25/22	5:22	8.34	5.00	71.47	433.27	80-450	Continued Displacement with total fresh water @ 174.47 BBLs H2O
	16 Spacer To Surface	5/25/22	14:53	8.34	5.00	75.47	437.27	385	Identified Spacer, looking for Cement / green water
	17 Cement To Surface	5/25/22	14:55	8.34	5.00	85.47	447.27	390	Identify Cement to surface w/ 89 BBLs back
	18 Drop Rate	5/25/22	15:00	8.34	2.50	164.47	526.27	400	Drop rate to 2.5 BPM for last 10 BBLs of Displacement to land plug
Casing Test	19 Land Plug	5/25/22	15:02	8.34	2.50	174.47	536.27	1,663	Land Plug @ 1,663 PSI
									with final lift pressure @ 475 PSI
	20	5/25/22	15:02	n/a	0	0	0	1,663	Start 30 min casing test w/ pressure @ 1,663 PSI
	21	5/25/22	15:12	n/a	0	0	0	1,681	10 min into casing test, pressure @ 1,681 PSI
Post Job & Testing	22	5/25/22	15:22	n/a	0	0	0	1,680	20 min into casing test, pressure @ 1,680 PSI
	23	5/25/22	15:32	n/a	0	0	0	1,674	30 min into casing test, pressure @ 1,674 PSI
	24 Check Floats	5/25/22	15:33	n/a	0	0	0	1	BBLs back (.25-1BBL expected)
Post Job & Testing	25 End Job	5/25/22	15:35						Bleed off pressure, job complete
	26 Safety Meeting	5/25/22	15:37						Pre-rig down safety meeting, wash up equipment
	27 Rig Down	5/25/22	15:40						Rig down Cementer's Equipment, leave location

Cementer's Well Service, Inc.

P.O. BOX 336220 • GREELEY, CO 80633 • (970) 353-7299 • FAX (970) 353-7712



Verdad Resources

Surface Casing Pressure Test - Cement Job Graph

COMPANY DETAILS

Date	5/25/22	API #	05-123-46831	Well No.	11H
County	Weld	State	CO	Lease	Boyd 2413

Client Verdad Resources

Contact / email

JOB DETAILS

TIME ON	11:30	24 hr	Depth	2,313	ft.	Pressure Test @	1,663	psi
START TIME	12:46	5/25/22	Bottom of Surface	2,298	ft.	10 min	1,681	psi
END TIME	6:54	5/25/22	Plug Landed @	2,257	ft.	20 min	1,680	psi
			Plug Landed @	15:02	24 hr	30 min	1,674	psi

SUMMARY GRAPH

