

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	Cementer's FIELD TICKET #	400144-D
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Requested Operator Guidance:

Well Name & Number	Lease	Gus LD	Well No.	34 - 379HN
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Well API Number	05-001-10489			
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Job Date	10/28/21	Time on	1:00	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	38	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	986	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	282.7	BBLs slurry
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h) Additives used	1.50% CaCl2	3.00% Bentonite
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Total Water Used	373.0	BBLs H2O
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i) Displacement Fluid Vol	153.5	BBLs H2O
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j) Method of Placement	
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k) Set Depth	2,030	feet (ft)
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l) Stage tool depth	n/a
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m) Float Collar Depth	1,986	feet (ft)
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n) Designed Top of Cement	n/a	to surface
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o) Centralizer depths	19 Centralizers: 0, 42.37, 85.7, 215.86, 345.84, 475.85, 605.53, 735.62, 862.7, 988.35, 1118.33, 1248.33, 1378.28, 1508.25, 1638.24, 1768.21, 1897.76, 1941.06, 1985.67	feet (ft)
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Charts - (pressure, density, pump rate)

Landed Plug @	1678	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	3:51	24 hr time
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b) Floats held	<input checked="" type="radio"/> Y / <input type="radio"/> N		10/28/21
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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	28.0	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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Surface Cement Job Report - Cementer's Well Service, Inc.

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DATE: DATE: 10/28/21



Great Western Operating Company, LLC

Lease: Gus LD
Well: 34 - 379HN
API# 05-123-10489

Date & Time On	10/28/21	1:00								
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	10/27/21	23:30					Great Western Call out w/ 4 hr notice	
	2	Leave Yard	10/28/21	0:15					Cementer's leaves yard to travel to location	
On Location: Pre-job	3	Arrive On Location	10/28/21	1:00					Arrive on location	
	4	Spot Trucks	10/28/21	1:05					Spot trucks on location	
	5	Rig Up	10/28/21	1:07					Rig up water & Cementer's Bulk Truck, prep pump and mixing operation	
	6	Safety Meeting	10/28/21	1:12					Pre-job safety meeting with IKON12 rig crew, GWO company man & Cementer's crew	
	7	Rig Up	10/28/21	1:17					Rig up cement head w/plug	
	8	Fill Lines	10/28/21	1:19	8.34	2.00			Fill lines with up to 5 bbls of fresh water	
Initial Job Start	9	Pressure Test	10/28/21	0:00	8.34	-		-	Pressure test pumps and lines	
	10	Pump Spacer	10/28/21	1:58	8.34	4.00	20	20	Pump dye fresh water @ 20 BBLs	
Cementing	11	Pump Cement	10/28/21	2:03	13.90	4.00	282.70	302.70	Pump Cement @ 986 SKS Type I/II cement with 1.5% CaCl2 & 3.0% Bentonite @ 1.61 cuft/sk & 13.9 PPG 282.70 BBLs slurry	
	12	Drop Plug	10/28/21	3:16			n/a		Shut down cementing operation & release top plug	
Displacement	13	Initial Displacement	10/28/21	3:18	8.34	2.00	4.00	306.70	-	Send plug with 4.0 BBLs H2O @ 2.0 BPM
	14	Plug Drop Verification	10/28/21	3:22			n/a			Visual verification plug released from head
	15	Displacement	10/28/21	3:24	8.34	5.00	111.52	414.22	80-450	Continued Displacement with total fresh water @ 153.52 BBLs H2O
	16	Spacer To Surface	10/28/21	3:41	8.34	5.00	115.52	418.22	385	Identified Spacer, looking for Cement / green water
	17	Cement To Surface	10/28/21	3:44	8.34	5.00	125.52	428.22	390	Identify Cement to surface w/ 28 BBLs back
	18	Drop Rate	10/28/21	3:49	8.34	2.50	143.52	446.22	400	Drop rate to 2.5 BPM for last 10 BBLs of Displacement to land plug
Casing Test	19	Land Plug	10/28/21	3:51	8.34	2.50	153.52	456.22	1,678	Land Plug @ 1,678 PSI
	20	Casing Test	10/28/21	3:51	n/a	0	0	0	1,678	Start 30 min casing test w/ pressure @ 1,678 PSI
	21		10/28/21	4:01	n/a	0	0	0	1,699	10 min into casing test, pressure @ 1,699 PSI
	22		10/28/21	4:11	n/a	0	0	0	1,707	20 min into casing test, pressure @ 1,707 PSI
23	10/28/21		4:21	n/a	0	0	0	1,710	30 min into casing test, pressure @ 1,710 PSI	
Post Job & Testing	24	Check Floats	10/28/21	4:22	n/a	0	0	0	1	BBLs back (.25-1BBL expected)
	25	End Job	10/28/21	4:24						Bleed off pressure, job complete
	26	Safety Meeting	10/28/21	4:26						Pre-rig down safety meeting, wash up equipment
	27	Rig Down	10/28/21	4:29						Rig down Cementer's Equipment, leave location

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Great Western Operating Company, LLC

Surface Cement Job Graph

COMPANY DETAILS

Date	10/28/21	API #	05-123-10489	Well No.	34 - 379HN
County	Adams	State	CO	Lease	Gus LD

Client Great Western Operating Company, LLC

Contact / email

JOB DETAILS

TIME ON	1:00	24 hr	Depth	2,030	ft.	Pressure Test @	1,678	psi
START TIME	1:57	10/28/21	Bottom of Surface	2,030	ft.	10 min	1,699	psi
END TIME	4:30	10/28/21	Plug Landed @	1,986	ft.	20 min	1,707	psi
			Plug Landed @	3:51	24 hr	30 min	1,710	psi

SUMMARY GRAPH

