

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: Confluence	Cementer's FIELD TICKET #	500103-D
--------------------	------------------------------	----------

Requested Operator Guidance: Confluence DJ LLC

Well Name & Number	Lease	Bigfoot	Well No.	11-5-4
--------------------	-------	---------	----------	--------

Well API Number	05-123-51764
-----------------	--------------

Job Date	9/4/22	Time on	0:15	24 hr time
----------	--------	---------	------	------------

Job Type	New Well Surface
----------	------------------

Cementing Company	Cementer's Well Service, Inc	Contact	Nate Kvamme - 303-324-4296
-------------------	------------------------------	---------	----------------------------

Ambient conditions	clear	63	temp deg F
--------------------	-------	----	------------

Slurry Description	
--------------------	--

a) Purpose	Surface - 9 5/8" 36# CSG, 13 1/2" hole
------------	--

b) Cement Class	ASTM C150 Type II
-----------------	-------------------

c) Cement Yield	1.61 cuft / sk
-----------------	----------------

d) Cement Density	13.9 PPG
-------------------	----------

e) Number of sks	703 sks (94# equiv)
------------------	---------------------

f) Mix Fluid Type	
-------------------	--

Water / Cement	8.5 Gal / sk
----------------	--------------

g) Slurry mixed	201.3 BBLs slurry
-----------------	-------------------

h) Additives used	1.5% CaCl2	3.0% Bentonite
-------------------	------------	----------------

Total Water Used	316.8 BBLs H2O
------------------	----------------

i) Displacement Fluid Vol	134.5 BBLs H2O
---------------------------	----------------

j) Method of Placement	
------------------------	--

k) Set Depth	1,783 feet (ft)
--------------	-----------------

l) Stage tool depth	n/a
---------------------	-----

m) Float Collar Depth	1,740 feet (ft)
-----------------------	-----------------

n) Designed Top of Cement	n/a to surface
---------------------------	----------------

o) Centralizer depths	0	feet (ft)
-----------------------	---	-----------

Charts - (pressure, density, pump rate)

Landed Plug @	1537	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	3:48	24 hr time
--------------	--	------	------	------------

b) Floats held	<input checked="" type="radio"/> Y <input type="radio"/> N	9/4/22
----------------	--	--------

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	34.0	BBLs to surface
----------------------	--	------	-----------------

e) If no returns, top off	n/a	BBLs
---------------------------	-----	------

f) Top off detail	
-------------------	--

g) Additional Detail	
----------------------	--

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

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

DATE: 9/4/22



Confluence DJ LLC

Lease: Bigfoot

Well: 11-5-4

API# 05-123-51764

Date & Time On	9/4/22 0:15									
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	9/3/22	21:30						Confluence DJ LLC call out w/ 4 hr notice	
	2 Leave Yard	9/4/22	23:30						Cementers leaves yard to travel to location	
On Location: Pre-job	3 Arrive On Location	9/4/22	0:15						Arrive on location	
	4 Spot Trucks	9/4/22	0:20						Spot trucks on location	
	5 Rig Up	9/4/22	0:22						Rig up water & Cementer's Bulk Truck, prep pump and mixing operation	
	6 Safety Meeting	9/4/22	0:27						Pre-job safety meeting with Ensign 122 rig crew, Confluence / IPT company man & Cementer's crew	
	7 Rig Up	9/4/22	0:32						Rig up cement head w/plug	
	8 Fill Lines	9/4/22	0:34	8.34	2.00				Fill lines with up to 5 bbls of fresh water	
Initial Job Start	9 Pressure Test	9/4/22	0:34	8.34	-			-	Pressure test pumps and lines	
	10 Pump Spacer	9/4/22	2:02	8.34	4.00	40	40	-	Pump dye fresh water @	40 BBLs
Cementing	11 Pump Cement	9/4/22	2:07	13.90	4.00	201.33	241.33	45	Pump Cement @	703 SKS
									ASTM C150 Type II cement with 1.5% CaCl ₂ & 3.0% Bentonite @ 1.61 cuft/sk & 13.9 PPG	201.33 BBLs slurry
Displacement	12 Drop Plug	9/4/22	3:10			n/a			Shut down cementing operation & release top plug	
	13 Initial Displacement	9/4/22	3:12	8.34	2.00	4.00	245.33	-	Send plug with 4.0 BBLs H ₂ O @ 2.0 BPM	
	14 Plug Drop Verification	9/4/22	3:16			n/a			Visual verification plug released from head	
	15 Displacement	9/4/22	3:18	8.34	5.00	76.50	317.83	80-450	Continued Displacement with total fresh water @	134.50 BBLs H ₂ O
	16 Spacer To Surface	9/4/22	3:40	8.34	5.00	80.50	321.83	385	Identified Spacer, looking for Cement / green water	
	17 Cement To Surface	9/4/22	3:43	8.34	5.00	100.50	341.83	390	Identify Cement to surface w/	34 BBLs back
	18 Drop Rate	9/4/22	3:45	8.34	2.50	124.50	365.83	400	Drop rate to 2.5 BPM for last 10 BBLs of Displacement to land plug	
	19 Land Plug	9/4/22	3:48	8.34	2.50	134.50	375.83	1,537	Land Plug @	1,537 PSI
Casing Test	20-23 Casing Test	9/4/22	3:48	n/a	0	0	0	1,537	with final lift pressure @	475 PSI
		9/4/22	3:58	n/a	0	0	0	1,567	Start 30 min casing test w/ pressure @	1,537 PSI
		9/4/22	4:08	n/a	0	0	0	1,578	10 min into casing test, pressure @	1,567 PSI
		9/4/22	4:18	n/a	0	0	0	1,583	20 min into casing test, pressure @	1,578 PSI
Post Job & Testing	24 Check Floats	9/4/22	4:19	n/a	0	0	0	0.5	30 min into casing test, pressure @	1,583 PSI
	25 End Job	9/4/22	4:21						BBLs back (.25-1BBL expected)	
	26 Safety Meeting	9/4/22	4:23						Bleed off pressure, job complete	
	27 Rig Down	9/4/22	4:26						Pre-rig down safety meeting, wash up equipment	
									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



Confluence DJ LLC

Surface Cement Job Graph & Casing Pressure Test

COMPANY DETAILS

Date	9/4/22	API #	05-123-51764	Well No.	11-5-4
County	Weld	State	CO	Lease	Bigfoot

Client Confluence DJ LLC

Contact / email

JOB DETAILS

TIME ON	0:15	24 hr	Depth	1,779	ft.	Pressure Test @	1,537	psi
START TIME	2:02	9/4/22	Bottom of Surface	1,783	ft.	10 min	1,567	psi
END TIME	4:26	9/4/22	Plug Landed @	1,740	ft.	20 min	1,578	psi
			Plug Landed @	3:48	24 hr	30 min	1,583	psi

SUMMARY GRAPH

