

# 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	Cementor's FIELD TICKET #	500143-D
--------------------	------------------------------	----------

Requested Operator Guidance: Confluence DJ LLC

Well Name & Number	Lease	Bigfoot	Well No.	11-11-1
--------------------	-------	---------	----------	---------

Well API Number	05-123-51762
-----------------	--------------

Job Date	9/4/22	Time on	16:15	24 hr time
----------	--------	---------	-------	------------

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

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

Ambient conditions	clear	75	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	708 sks (94# equiv)
------------------	---------------------

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

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

g) Slurry mixed	203.0 BBLs slurry
-----------------	-------------------

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

Total Water Used	318.7 BBLs H2O
------------------	----------------

i) Displacement Fluid Vol	135.4 BBLs H2O
---------------------------	----------------

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

k) Set Depth	1,795 feet (ft)
--------------	-----------------

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

m) Float Collar Depth	1,752 feet (ft)
-----------------------	-----------------

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

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

Charts - (pressure, density, pump rate)

Landed Plug @	1520 psi	Final Lift Pressure @	450 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	19:45	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	38.0 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: 11-11-1

API# 05-123-51762

Date & Time On 9/4/22 16:15

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	9/4/22	13:45						Confluence DJ LLC call out w/ 4 hr notice
	2 Leave Yard	9/4/22	15:45						Cementers leaves yard to travel to location
On Location: Pre-job	3 Arrive On Location	9/4/22	16:15						Arrive on location
	4 Spot Trucks	9/4/22	17:34						Spot trucks on location
	5 Rig Up	9/4/22	17:36						Rig up water & Cementer's Bulk Truck, prep pump and mixing operation
	6 Safety Meeting	9/4/22	17:41						Pre-job safety meeting with Ensign 122 rig crew, Confluence / IPT company man & Cementer's crew
	7 Rig Up	9/4/22	17:46						Rig up cement head w/plug
	8 Fill Lines	9/4/22	17:48	8.34	2.00				Fill lines with up to 5 bbls of fresh water
Initial Job Start	9 Pressure Test	9/4/22	17:48	8.34	-			-	Pressure test pumps and lines
	10 Pump Spacer	9/4/22	18:04	8.34	4.00	40	40	-	Pump dye fresh water @ 40 BBLs
Cementing	11 Pump Cement	9/4/22	18:09	13.90	4.00	202.99	242.99	45	Pump Cement @ 708 SKS
									ASTM C150 Type II cement with 1.5% CaCl <sub>2</sub> & 3.0% Bentonite @ 1.61 cuft/sk & 13.9 PPG 202.99 BBLs slurry
Displacement	12 Drop Plug	9/4/22	19:09			n/a			Shut down cementing operation & release top plug
	13 Initial Displacement	9/4/22	19:11	8.34	2.00	4.00	246.99	-	Send plug with 4.0 BBLs H <sub>2</sub> O @ 2.0 BPM
	14 Plug Drop Verification	9/4/22	19:15			n/a			Visual verification plug released from head
	15 Displacement	9/4/22	19:17	8.34	5.00	73.43	316.42	80-450	Continued Displacement with total fresh water @ 135.43 BBLs H <sub>2</sub> O
	16 Spacer To Surface	9/4/22	19:39	8.34	5.00	77.43	320.42	385	Identified Spacer, looking for Cement / green water
	17 Cement To Surface	9/4/22	19:40	8.34	5.00	97.43	340.42	390	Identify Cement to surface w/ 38 BBLs back
	18 Drop Rate	9/4/22	19:42	8.34	2.50	125.43	368.42	400	Drop rate to 2.5 BPM for last 10 BBLs of Displacement to land plug
	19 Land Plug	9/4/22	19:45	8.34	2.50	135.43	378.42	1,520	Land Plug @ 1,520 PSI
Casing Test									with final lift pressure @ 450 PSI
	20	Casing Test	9/4/22	19:45	n/a	0	0	1,520	Start 30 min casing test w/ pressure @ 1,520 PSI
	21		9/4/22	19:55	n/a	0	0	1,545	10 min into casing test, pressure @ 1,545 PSI
	22		9/4/22	20:05	n/a	0	0	1,555	20 min into casing test, pressure @ 1,555 PSI
	23		9/4/22	20:15	n/a	0	0	1,561	30 min into casing test, pressure @ 1,561 PSI
Post Job & Testing	24 Check Floats	9/4/22	20:16	n/a	0	0	0	0.5	BBLs back (.25-1BBL expected)
	25 End Job	9/4/22	20:18						Bleed off pressure, job complete
	26 Safety Meeting	9/4/22	20:20						Pre-rig down safety meeting, wash up equipment
	27 Rig Down	9/4/22	20:23						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 #	05-123-51762	Well No.	11-11-1
County	Weld	State	CO	Lease	Bigfoot

Client Confluence DJ LLC

Contact / email

### JOB DETAILS

TIME ON	16:15	24 hr	Depth	1,799	ft.	Pressure Test @	1,520	psi
START TIME	18:00	9/4/22	Bottom of Surface	1,795	ft.	10 min	1,545	psi
END TIME	20:25	9/4/22	Plug Landed @	1,752	ft.	20 min	1,555	psi
			Plug Landed @	19:45	24 hr	30 min	1,561	psi

### SUMMARY GRAPH

