



Caerus Operating LLC

LONG STRING POST JOB REPORT

BJU M33 FED #14B-32-496 05-045-18721
S:33 T:4S R:96W Garfield CO

CallSheet #: 88867
Proposal #: 71971



LONG STRING Post Job Report

Attention: Mr. Cole Walton | (720) 880-6325 | cwalton@caerusoilandgas.com

Caerus Operating LLC

1001 17TH STREET | DENVER, CO 80202

Dear Mr. Cole Walton,

Thank you for the opportunity to provide cementing services on this well. American Cementing strives to achieve complete customer satisfaction. If you have any questions regarding the services or data provided, please contact American Cementing at any time.

Sincerely,

Lyndon Chandarjit

Field Engineer II | (281) 690-3840 | lyndon.chandarjit@americacementing.com

Field Office 28730 US-6, Rifle, CO 81650
Phone: (970) 657-1187

Job Details & Summary

Geometry

Type	Function	OD (in)	ID (in)	Weight (lb/ft)	Thread	Top (ft)	Bottom (ft)	Excess (%)
Casing	Outer	9.625	8.921	36	n/a	0	3000	0
Open Hole	Outer	n/a	8.75	n/a	n/a	3000	6113	25
Open Hole	Outer	n/a	8.75	n/a	n/a	6113	11696	0
Casing	Inner	4.5	3.92	13.5	Other	0	11677	0

Equipment / People

Unit Type	Unit	Power Unit	Employee #1	Employee #2
Cement Trailer Float	CTF-522	TRC-195	Danny Ridgeway	
Field Storage Silo	FSS-468			
Field Storage Silo	FSS-478			
Cement Pump Float	CPF-053	TRH-677	Claudio Macias	
Light Duty Vehicles	LDV-088		Raul De Leon	Daniel Sanchez2
Light Duty Vehicles	LDV-083		Stephen Lancaster	

Timing

Event	Date/Time
ERTS	10/24/2023 09:00
Call Out	10/24/2023 01:59
Depart Facility	10/24/2023 07:00
On Location	10/24/2023 08:34
Rig Up Iron	10/24/2023 08:40
Job Started	10/24/2023 12:30
Job Completed	10/24/2023 15:46
Rig Down Iron	10/24/2023 16:40
Depart Location	10/24/2023 17:37

General Job Information

Metrics	Value
Well Fluid Density	10.2 lb/gal
Well Fluid Type	WBM
Rig Circulation Vol	1673 bbls
Rig Circulation Time	1.5 hours
Calculated Displacement	173 bbls
Actual Displacement	175 bbls
Total Spacer to Surface	0 bbls
Total CMT to Surface	0 bbls
Well Topped Out	N/A

Job Details

Metrics	Value
Well Full Prior to Job	Yes
Well Fluid Density Into Well	10.2 lb/gal
Well Fluid Density Out of Well	10.2 lb/gal

Job Details (cont.)

Metrics	Value
BHCT	221 °F
BHST	292 °F

Water Analysis

Metrics	Value	Recommended
Water Source	None	
Temperature	61 °F	50-80 °F
pH Level	6	5.5-8.5
Chlorides	0 mg/L	0-3000 mg/L
Total Alkalinity	210	0-1000
Total Hardness	500 mg/L	0-500 mg/L
Carbonates	0 mg/L	0-100 mg/L
Sulfates	200 mg/L	0-1500 mg/L
Potassium	0 mg/L	0-3000 mg/L
Iron	0 mg/L	0-300 mg/L

Circulation

Lost Circulation Experienced	Losses into Spacer	Losses into Cement	Losses into Displacement
No			

Job Execution Information

Fluid	Product	Function	Density (lb/gal)	Yield (ft ³ /sk)	Water Rq. (gal/sk)	Water Rq. (gal/bbl)	Volume (sks)	Volume (bbl)	Designed Top (ft)
1	Mud Flush	Flush	8.45			40.86		20.00	1653
2	Scavenger	Scavenger	11.50	2.64	15.49		123.00	57.75	2000
3	Lead	Lead	12.70	2.15	11.52		556.00	212.98	3000
4	Tail	Tail	13.50	2.01	9.73		781.00	279.94	6113
5	Water + KCL Sub	DisplacementFinal	8.34			42.00		167.00	0

Job Fluid Details

Fluid	Type	Fluid	Product	Function	Conc.	Uom
1	Flush	Mud Flush	SAPP	Surfactant	10.00	lb/bbl
1	Flush	Mud Flush	SS-201	Surfactant	0.50	gal/bbl
2	Scavenger	Scavenger	CLASS G	Cement	65.00	%
2	Scavenger	Scavenger	FLY ASH (POZZOLAN)	Extender	35.00	%
2	Scavenger	Scavenger	BENTONITE	Viscosifier	8.00	%BWOB
2	Scavenger	Scavenger	GW-86	Viscosifier	0.20	%BWOB
2	Scavenger	Scavenger	IntegraSeal PHENO	LostCirculation	3.00	lb/sk
2	Scavenger	Scavenger	R-7C	Retarder	0.25	%BWOB
2	Scavenger	Scavenger	XCem-308	Defoamer	0.30	%BWOB
3	Lead	Lead	ASTM TYPE IL	Cement	100.00	%
3	Lead	Lead	A-2	Accelerator	0.10	%BWOB
3	Lead	Lead	EC-2	BondEnhancer	1.00	%BWOB
3	Lead	Lead	FL-66	FluidLoss	0.20	%BWOB
3	Lead	Lead	GW-86	Viscosifier	0.10	%BWOB
3	Lead	Lead	IntegraSeal PHENO	LostCirculation	3.00	lb/sk
3	Lead	Lead	IntegraSeal POLI	LostCirculation	0.25	lb/sk
3	Lead	Lead	R-3	Retarder	1.00	%BWOB
3	Lead	Lead	STATIC FREE	Other	0.01	lb/sk
3	Lead	Lead	XCem-1009	Extender	10.00	lb/sk
3	Lead	Lead	XCem-308	Defoamer	0.30	%BWOB
4	Tail	Tail	CLASS G	Cement	70.00	%
4	Tail	Tail	FLY ASH (POZZOLAN)	Extender	30.00	%
4	Tail	Tail	BA-60	GasMigration	0.20	%BWOB
4	Tail	Tail	BENTONITE	Viscosifier	8.00	%BWOB
4	Tail	Tail	FL-24	FluidLoss	0.40	%BWOB
4	Tail	Tail	IntegraSeal PHENO	LostCirculation	3.00	lb/sk
4	Tail	Tail	S-8	StrengthRetrogression	26.00	%BWOB
4	Tail	Tail	XCem-308	Defoamer	0.30	%BWOB
4	Tail	Tail	XCem-916	Retarder	0.40	%BWOB

Job Logs

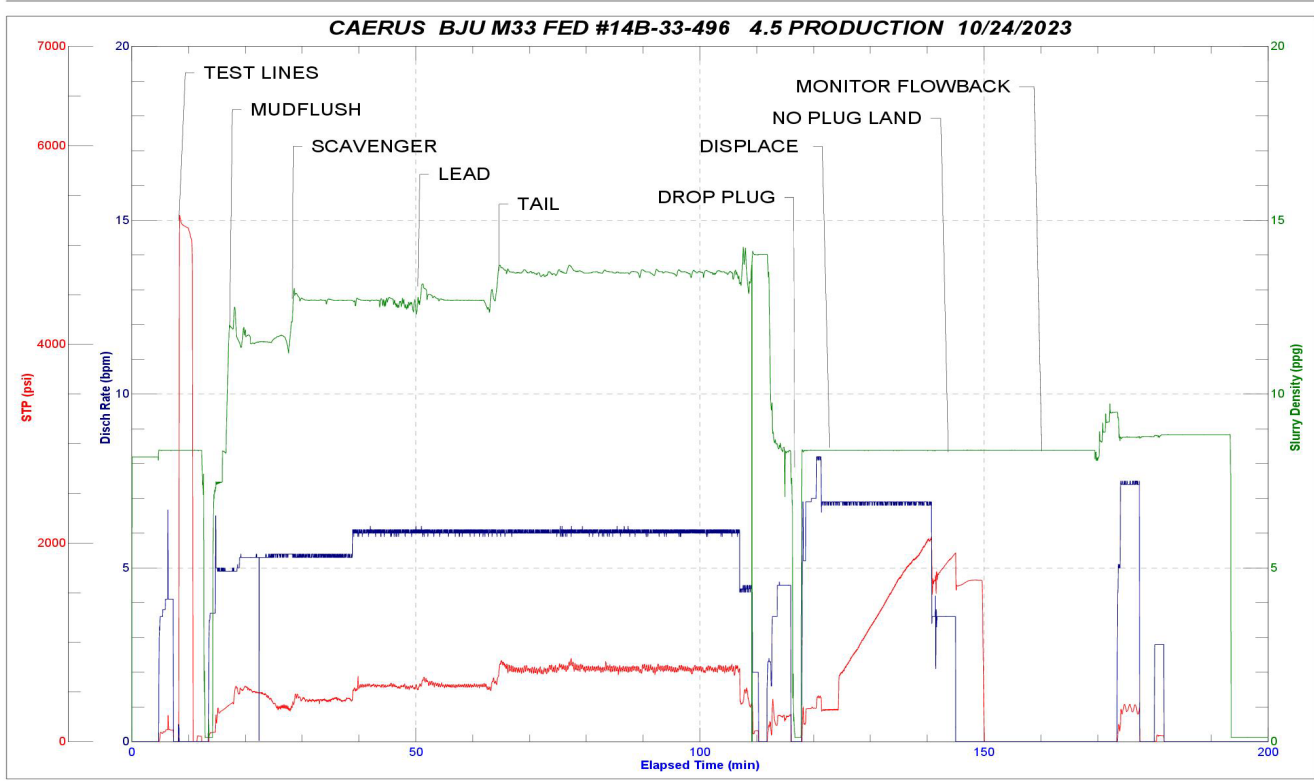
Line	Event	Date (MM/DD/YY)	Time (HH:MM)	Density (lb/gal)	Pump Rate (bpm)	Pump Volume (bbls)	Pipe Pressure (psi)	Comment
1	Callout	10/24/2023	01:59					CREW CALLED OUT FOR ON LOCATION TIME OF 10/24/23 @ 09:00 AM
2	Depart RCO	10/24/2023	07:00					AC CREW DEPARTS RCO YARD,
3	Arrive On Location	10/24/2023	08:34					AC CREW ARRIVES ON LOCATION @ 8:34
4	Rig Up Iron	10/24/2023	08:40					RIG UP ALL IRON AND HOSES
5	Waiting	10/24/2023	09:55					WAITING ON RIG TO FINISH RUNNING CASING
6	Rig Up Iron	10/24/2023	11:40					RIG UP STAND PIPE WASH HOSES
7	Rig up floor	10/24/2023	11:55					STAB HEAD AND RIG IN IRON,, RIG CIRCULATING
8	Safety Meeting	10/24/2023	12:30					SAFETY MEETING WITH AC PERSONEL AND RIG CREW
9	Fill Lines	10/24/2023	13:04	8.34	3	10	156	FILL LINES
10	Pressure Test Lines	10/24/2023	13:07	8.334	1	1	5300	PRESSURE TEST LINES TO 5000 PSI
11	Pump MudFlush	10/24/2023	13:14	8.45	5	20	414	PUMP MUD FLUSH WITH SURFACTANT
12	Pump Scavenger	10/24/2023	13:17	11.5	5	58	365	PUMP 58 BBLs SCAVENGER CEMENT
13	Pump Lead Cement	10/24/2023	13:26	12.7	5.3	10	410	BEGIN PUMPING 12.7 PPG LEAD CEMENT, DENSITY VERIFIED WITH PRESSURIZED MUD SCALE
14	Pump Lead Cement	10/24/2023	13:37	12.7	5.3	50	450	50 BBLs LEAD CEMENT PUMPED, (full returns)
15	Pump Lead Cement	10/24/2023	13:44	12.7	6	100	564	100 BBLs LEAD CEMENT PUMPED,
16	Pump Lead Cement	10/24/2023	13:53	12.7	6	150	575	150 BBLs LEAD CEMENT PUMPED
17	Pump Lead Cement	10/24/2023	14:02	12.7	6	200	541	200 BBLs LEAD CEMENT PUMPED (full returns)
18	Pump Lead Cement	10/24/2023	14:03	12.7	6	213	576	275 BBLs LEAD CEMENT PUMPED
19	Pump Tail Cement	10/24/2023	14:04	13.5	6	5	561	BEGIN PUMPING TAIL AT 13.5 PPG, DENSITY VERIFIED WITH PRESSURIZED MUD SCALE
20	Pump Tail Cement	10/24/2023	14:13	13.5	6	50	738	50 BBLs TAIL CEMENT PUMPED
21	Pump Tail Cement	10/24/2023	14:19	13.5	6	100	794	100 BBLs TAIL CEMENT PUMPED, BYPASS PARASITE
22	Pump Tail Cement	10/24/2023	14:28	13.5	6	150	741	150 BBLs TAIL CEMENT PUMPED, LOST RETURNS @ 148 PUMPED
23	Pump Tail Cement	10/24/2023	14:38	13.5	6	200	737	200 BBLs TAIL CEMENT PUMPED
24	Pump Tail Cement	10/24/2023	00:00	13.5	6	250	758	250 BBLs TAIL CEMENT PUMPED
25	Pump Tail Cement	10/24/2023	14:49	13.5	4.4	270	457	270 BBLs TAIL CEMENT PUMPED
26	Pump Tail Cement	10/24/2023	14:50	13.5	4.4	280	425	280 BBLs TAIL CEMENT PUMPED
27	Clean Pumps and Lines	10/24/2023	14:52	8.34	5	20	267	SHUT DOWN, WASH PUMP AND LINES
28	Drop Top Plug	10/24/2023	14:58	8.34	4	5	156	DROP TOP PLUG, WITNESSED BY CUSTOMER REP. BEGIN RESCARE DISPLACEMENT



29	Pump Displacement	10/24/2023	15:06	8.34	7	50	860	50 BBLS DISPLACEMENT PUMPED (no returns)
30	Pump Displacement	10/24/2023	15:12	8.34	7	100	1400	100 BBLS DISPLACEMENT PUMPED
31	Pump Displacement	10/24/2023	15:19	8.34	7	150	2000	150 BBLS DISPLACEMENT PUMPED
32	Pump Displacement	10/24/2023	15:21	8.34	3.6	160	1654	180 BBLS DISPACMENT PUMPED , SLOW TO 4 BPM (no returns)
33	Pump Displacement	10/24/2023	00:00	8.34	4	173		173 BBLS DISPLACEMENT PUMPED
34	Shutdown	10/24/2023	15:25	8.34	4	175		SHUTDOWN , PLUG DIDN'T LAND, PUMP 2 BBLS OVER DISPLACEMENT
35	Check Floats	10/24/2023	15:30					CHECK FLOATS, MONITOR FLOWBACK FOR 15 MINUTES, NORMAL EXPANSION 1 BBL BACK JOB CALLED GOOD AT 15:46
36	Pickle the pump and lines	10/24/2023	15:45					PICKLE THE PUMPS AND LINES
37	Blow down lines	10/24/2023	15:59					BLOW ALL LINES DOWN WITH AIR FROM BULK TRUCK TO WASH UP PIT
38	Rig Down Iron	10/24/2023	16:40					RIG DOWN LINES AND HOSES
39	Blow top out to 37	10/24/2023	16:58					Blow top out back into Silo 37
40	Depart Location	10/24/2023	17:37					Depart Location

Pump Diagrams

JobMaster Program Version 5.01C1
Job Number: 88867
Customer: CAERUS
Well Name: BJU M33 FED #14B-32-496



Job Start: Tuesday, October 24, 2023