



Caerus Operating LLC

LONG STRING POST JOB REPORT

BJU B26 FED #15A-26-496 05-045-24454
S:26 T:4S R:96W Garfield CO

CallSheet #: 86353
Proposal #: 67935



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,

Krystal Schell

Field Engineer I | (719) 992-1830 | krystal.schell@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	6929	25
Open Hole	Outer	n/a	8.75	n/a	n/a	6929	12229	0
Casing	Inner	4.5	4	11.6	n/a	0	12229	0

Equipment / People

Unit Type	Unit	Power Unit	Employee #1
Cement Trailer Float	CTF-246	TRC-180	Schiro, Aaron
Field Storage Silo	FSS-478		
Field Storage Silo	FSS-468		
Cement Trailer Float	CTF-242	TRC-195	Schweitzer, Casey
Light Duty Vehicles	LDV-045		McClure, Gerron
Cement Pump Float	CPF-012	TRH-964	Bonin, Ryan

Timing

Event	Date/Time
ERTS	00/10/2023 00:00
Call Out	4/10/2023 16:00
Depart Facility	4/10/2023 19:30
On Location	4/10/2023 21:15
Rig Up Iron	4/10/2023 23:00
Job Started	4/11/2023 05:20
Job Completed	4/11/2023 08:27
Rig Down Iron	4/11/2023 09:00
Depart Location	4/11/2023 11:00

General Job Information

Metrics	Value
Well Fluid Density	10.6 lb/gal
Well Fluid Type	OBM
Rig Circulation Vol	300 bbls
Rig Circulation Time	2 hours
Calculated Displacement	188 bbls
Actual Displacement	188 bbls
Total Spacer to Surface	N/A bbls
Total CMT to Surface	N/A bbls
Well Topped Out	N/A
Top Out Volume	N/A bbls

Job Details

Metrics	Value
Flare Prior to Job	No
Flare Prior to Job	N/A units
Flare During Job	No
Flare During Job	N/A units
Flare at End of Job	No
Flare at End of Job	N/A units
Well Full Prior to Job	Yes
Well Fluid Density Into Well	10.6 lb/gal
Well Fluid Density Out of Well	10.6 lb/gal

Job Details (cont.)

Metrics	Value
BHCT	214 °F
BHST	281 °F

Water Analysis

Metrics	Value	Recommended
Water Source	Flat Tank	
Temperature	72 °F	50-80 °F
pH Level	6	5.5-8.5
Chlorides	500 mg/L	0-3000 mg/L
Total Alkalinity	N/A	0-1000
Total Hardness	N/A mg/L	0-500 mg/L
Carbonates	N/A mg/L	0-100 mg/L
Sulfates	200 mg/L	0-1500 mg/L
Potassium	N/A mg/L	0-3000 mg/L
Iron	N/A mg/L	0-300 mg/L

Circulation

Lost Circulation Experienced	Losses into Spacer	Losses into Cement	Losses into Displacement
Yes	N/A	180 Tail	n/a

Circulation Details

LOSSES OCCURRED AT 180 BBL GONE ON TAIL CEMENT WHEN THE PARASITE LINE WAS BYPASSED AT 150 BBL. THEY RECOVERED 564 BBLs OF MUD

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	653
2	Scavenger	Scavenger	11.50	2.76	16.68		235.00	115.48	1000
3	Lead	Lead	12.70	2.00	11.00		753.00	268.70	3000
4	Tail	Tail	13.50	2.00	9.66		817.00	290.66	6929
5	Water + KCL Sub	DisplacementFinal	8.34			42.00		188.00	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	ASTM TYPE I/II	Cement	100.00	%
2	Scavenger	Scavenger	BA-60	GasMigration	0.30	%BWOB
2	Scavenger	Scavenger	FP-24	Defoamer	0.30	%BWOB
2	Scavenger	Scavenger	GW-86	Viscosifier	0.20	%BWOB
2	Scavenger	Scavenger	IntegraSeal PHENO	LostCirculation	3.00	lb/sk
2	Scavenger	Scavenger	STATIC FREE	Other	0.01	lb/sk
2	Scavenger	Scavenger	XCem-916	Retarder	0.50	%BWOB
3	Lead	Lead	ASTM TYPE I/II	Cement	100.00	%
3	Lead	Lead	BA-60	GasMigration	0.30	%BWOB
3	Lead	Lead	FL-66	FluidLoss	0.50	%BWOB
3	Lead	Lead	FP-24	Defoamer	0.30	%BWOB
3	Lead	Lead	GW-86	Viscosifier	0.10	%BWOB
3	Lead	Lead	IntegraSeal PHENO	LostCirculation	3.00	lb/sk
3	Lead	Lead	STATIC FREE	Other	0.01	lb/sk
3	Lead	Lead	XCem-916	Retarder	0.50	%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	FP-24	Defoamer	0.30	%BWOB
4	Tail	Tail	IntegraSeal PHENO	LostCirculation	3.00	lb/sk
4	Tail	Tail	S-8	StrengthRetrogression	25.00	%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	ARRIVED ON LOCATION	4/10/2023	21:15					ARRIVED ON LOCATION/ CUSTOMER REQUESTED 23:00
2	HAZARD ASSESSMENT	4/10/2023	21:30					
3	SPOT EQUIPMENT	4/10/2023	21:45					
4	PRE RIG UP SAFTEY MEETING	4/10/2023	23:00					
5	PRE JOB SAFTEY MEETING	4/11/2023	04:45					
6	Start Job	4/11/2023	05:20					
7	Pressure Test Lines	4/11/2023	05:23	8.34	1	1	5000	PRESSURE TEST LINES 5000 PSI
8	BREAK CIRCULATION	4/11/2023	05:34	8.34	5	10	157	BREAK CIRCULATION WITH BBLS
9	20 BBL MUD FLUSH II	4/11/2023	05:37	8.45	6	20	640	20 BBL MUD FLUSH 11
10	10 BBL FW SPACER	4/11/2023	05:41	8.34	6	10	630	
11	START SCAVENGER LEAD	4/11/2023	05:44	11.5	6	1	800	SCAVENGER LEAD @ 11.5 (235 SKS)
12	50 GONE	4/11/2023	05:53	11.5	6	50	804	
13	100 GONE	4/11/2023	06:02	11.5	6	100	756	
14	END OF SCAVENGER LEAD	4/11/2023	06:04	11.5	4	115	340	END OF 115 BBL SCAVENGER LEAD
15	START LEAD CEMENT	4/11/2023	06:05	12.7	6	1	380	LEAD CEMENT @ 12.7 (753 SKS)
16	50 GONE	4/11/2023	06:11	12.7	6	50	400	
17	100 GONE	4/11/2023	06:15	12.7	6	100	375	
18	150 GONE	4/11/2023	06:24	12.7	6	150	400	
19	200 GONE	4/11/2023	06:33	12.7	6	200	380	
20	250 GONE	4/11/2023	06:42	12.7	6	250	290	
21	END OF LEAD	4/11/2023	06:51	12.7	3	268	280	END OF LEAD CEMENT 268 BBLS
22	START TAIL CEMENT	4/11/2023	07:00	13.5	3	1	280	TAIL CEMENT @ 13.5 (818 SKS)
23	50 GONE ON TAIL	4/11/2023	07:09	13.5	5	50	530	
24	100 GONE ON TAIL	4/11/2023	07:16	13.5	5	100	570	
25	150 GONE ON TAIL	4/11/2023	07:23	13.5	5	150	566	SHUT OFF PARASITE LINE @ 150 BBLS/ ABLE TO RECOVER 564 BBLS OF MUD/ LOST RETURNS 180 BBLS GONE
26	200 GONE ON TAIL	4/11/2023	07:30	13.5	5	200	506	
27	250 GONE ON TAIL	4/11/2023	07:37	13.5	5	250	500	
28	END OF TAIL	4/11/2023	07:39	13.5	3	296	90	END OF TAIL CEMENT 296 BBLS
29	Shutdown	4/11/2023	07:40					
30	WASH LINES	4/11/2023	07:43					
31	Drop Top Plug	4/11/2023	07:49					
32	START FW DISPLACEMENT	4/11/2023	07:51	8.34	3	1	90	START 188 BBL FRESH WATER DISPLACEMENT
33	CAUGHT CEMENT	4/11/2023	07:58	8.34	8	27	820	CAUGHT CEMENT @ 42 BBL GONE
34	50 BBL GONE	4/11/2023	08:02	8.34		50	792	
35	100 BBL GONE	4/11/2023	08:07	8.34		100	1000	
36	150 BBL GONE	4/11/2023	08:13	8.34		150	2000	
37	PRESSURE BEFORE SLOW	4/11/2023	08:21	8.34			2281	PRESSURE BEFORE SLOW RATE - 2281
38	SLOW RATE	4/11/2023	08:21	8.34			2035	SLOW RATE PRESSURE - 2035
39	PRESSURE BEFORE BUMP	4/11/2023	08:27	8.34			2260	FINAL LIFT PRESSURE - 2260
40	Land Plug	4/11/2023	08:27	8.34			2980	BUMPED PLUG TO PSI - 2980
41	Check Floats	4/11/2023	08:30					2 BBLS BACK UPON FLOAT CHECK
42	END OF SERVICES	4/11/2023	08:32					END OF CEMENTING APPLICATION

Line	Event	Date (MM/DD/YY)	Time (HH:MM)	Density (lb/gal)	Pump Rate (bpm)	Pump Volume (bbls)	Pipe Pressure (psi)	Comment
43	POST/ PRE RIG DOWN	4/11/2023	09:00					
44	RIGGED DOWN	4/11/2023	10:35					
45	PRE CONVOY	4/11/2023	11:00					
46	Depart Location	4/11/2023	11:30					
47	End Job	4/11/2023	11:30					END OF JOB

Pump Diagrams

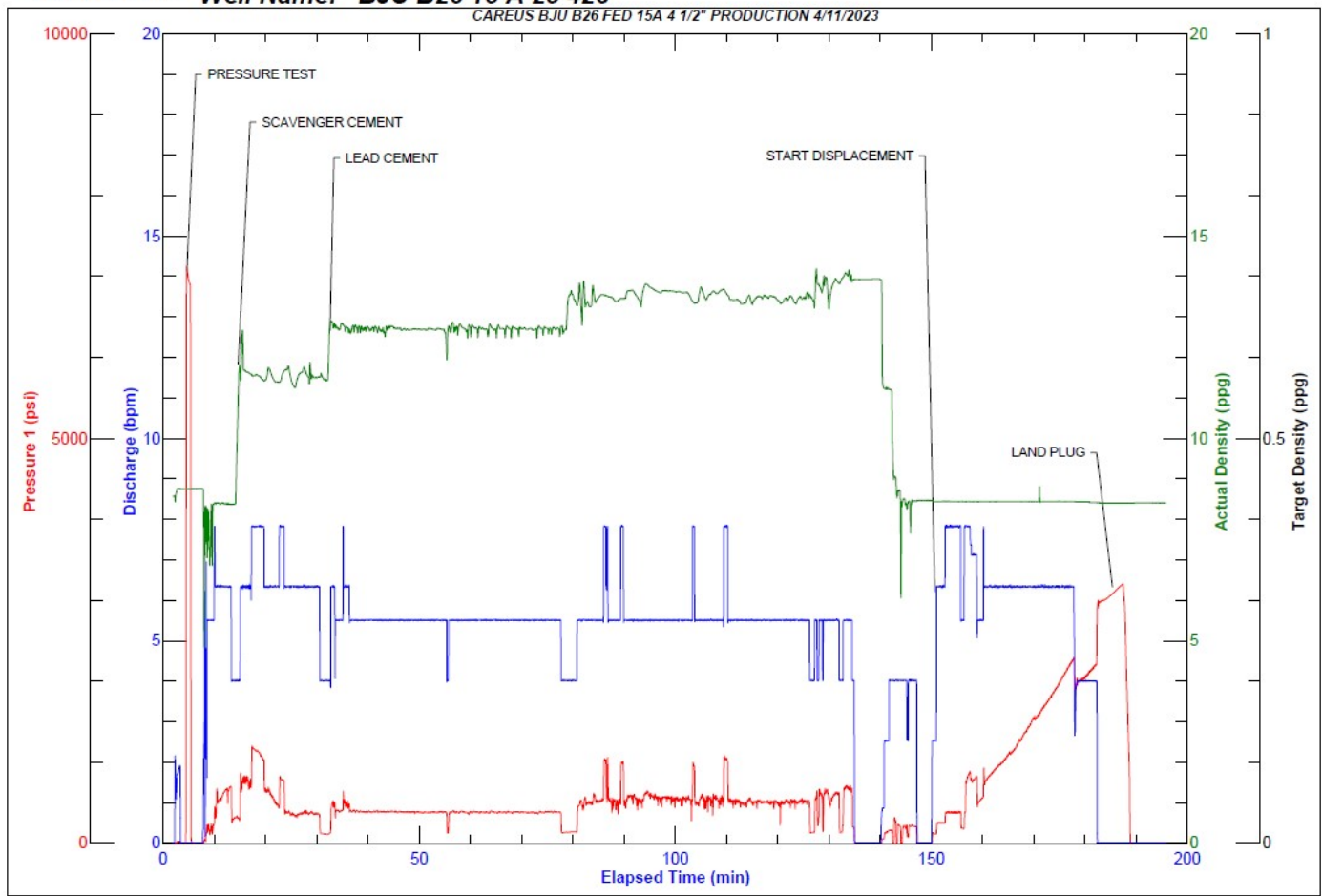


JobMaster Program Version 5.01C1

Job Number: 86353

Customer: CAREUS

Well Name: BJU B26 15 A 25 426



Job Start: Tuesday, April 11, 2023