



Caerus Operating LLC

LONG STRING POST JOB REPORT

BJU B26 FED 21D-26-496 05-045-24438
S:26 T:4S R:96W Garfield CO

CallSheet #: 82469
Proposal #: 61562



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,

Holly Mbugua

Field Engineer II | (720) 505-1300 | holly.mbugua@americacementing.com

Field Office 28730 US-6, Rifle, CO 81650
Phone: (970) 657-1157

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	3010	0
Open Hole	Outer	n/a	8.75	n/a	n/a	3000	7095	25
Open Hole	Outer	n/a	8.75	n/a	n/a	7095	12378	0
Casing	Inner	4.5	4	11.6	n/a	0	12364.34	0

Timing

Event	Date/Time
Call Out	7/18/2022 15:00
Depart Facility	7/18/2022 16:30
On Location	7/18/2022 18:00
Rig Up Iron	7/18/2022 18:15
Job Started	7/19/2022 01:04
Job Completed	7/19/2022 03:44
Rig Down Iron	7/19/2022 04:15
Depart Location	7/19/2022 05:00

Equipment / People

Unit Type	Unit	Power Unit	Employee #1
Field Storage Silo	FSS(CTS)-469		
Field Storage Silo	FSS(CTS)-468		
AS Cement Trailer Float	CTF-138	TRC(TRB)-090	Schweitzer, Casey
AS Cement Trailer Float	CTF-901	TRC(TRB)-090	Schweitzer, Casey
AS Cement Trailer Float	CTF-9309	TRB-421	Barber, Tonya
AS Cement Trailer Float	CTF-019	TRC(TRB)-424	Bradbrook, Jeremy
Cement Trailer Float	CTF-340	TRC(TRB)-244	Richey, Steven
Light Duty Vehicles	LDV-063		Castillo, Francisco
Cement Pump Float	CPF-052	TRH-957	Brady, Shawn

General Job Information

Metrics	Value
Well Fluid Density	10.9 lb/gal
Well Fluid Type	WBM
Rig Circulation Vol	1200 bbls
Rig Circulation Time	2 hours
Calculated Displacement	190 bbls
Actual Displacement	190 bbls
Total Spacer to Surface	0 bbls
Total CMT to Surface	0 bbls
Well Topped Out	N/A

Job Details

Metrics	Value
Flare Prior to Job	No
Flare Prior to Job	0 units
Flare During Job	No
Flare During Job	0 units
Flare at End of Job	No
Flare at End of Job	0 units
Well Full Prior to Job	Yes
Well Fluid Density Into Well	10.9 lb/gal
Well Fluid Density Out of Well	10.9 lb/gal

Job Details (cont.)

Metrics	Value
BHCT	215 °F
BHST	282 °F

Water Analysis

Metrics	Value	Recommended
Water Source	None	
Temperature	74 °F	50-80 °F
pH Level	7	5.5-8.5
Chlorides	0 mg/L	0-3000 mg/L
Total Alkalinity	240	0-1000
Total Hardness	250 mg/L	0-500 mg/L
Carbonates	0 mg/L	0-100 mg/L
Sulfates	200 mg/L	0-1500 mg/L
Potassium	250 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
Yes	N/A	N/A	N/A

Circulation Details

LOST RETURNS AT 140 BBLS INTO TAIL AFTER SHUTTING PARASITE AIR AT 100 BBLS INTO TAIL

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	116.00	1000
3	Lead	Lead	12.70	2.00	11.00		786.00	280.26	3000
4	Tail	Tail	13.50	2.00	9.66		818.00	290.89	7095
5	Water + KCL Sub	DisplacementFinal	8.34			42.00		190.00	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	R-3	Retarder	0.50	%BWOB
2	Scavenger	Scavenger	STATIC FREE	Other	0.01	lb/sk
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	R-3	Retarder	0.30	%BWOB
3	Lead	Lead	STATIC FREE	Other	0.01	lb/sk
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	R-3	Retarder	0.25	%BWOB
4	Tail	Tail	S-8	StrengthRetrogression	25.00	%BWOB

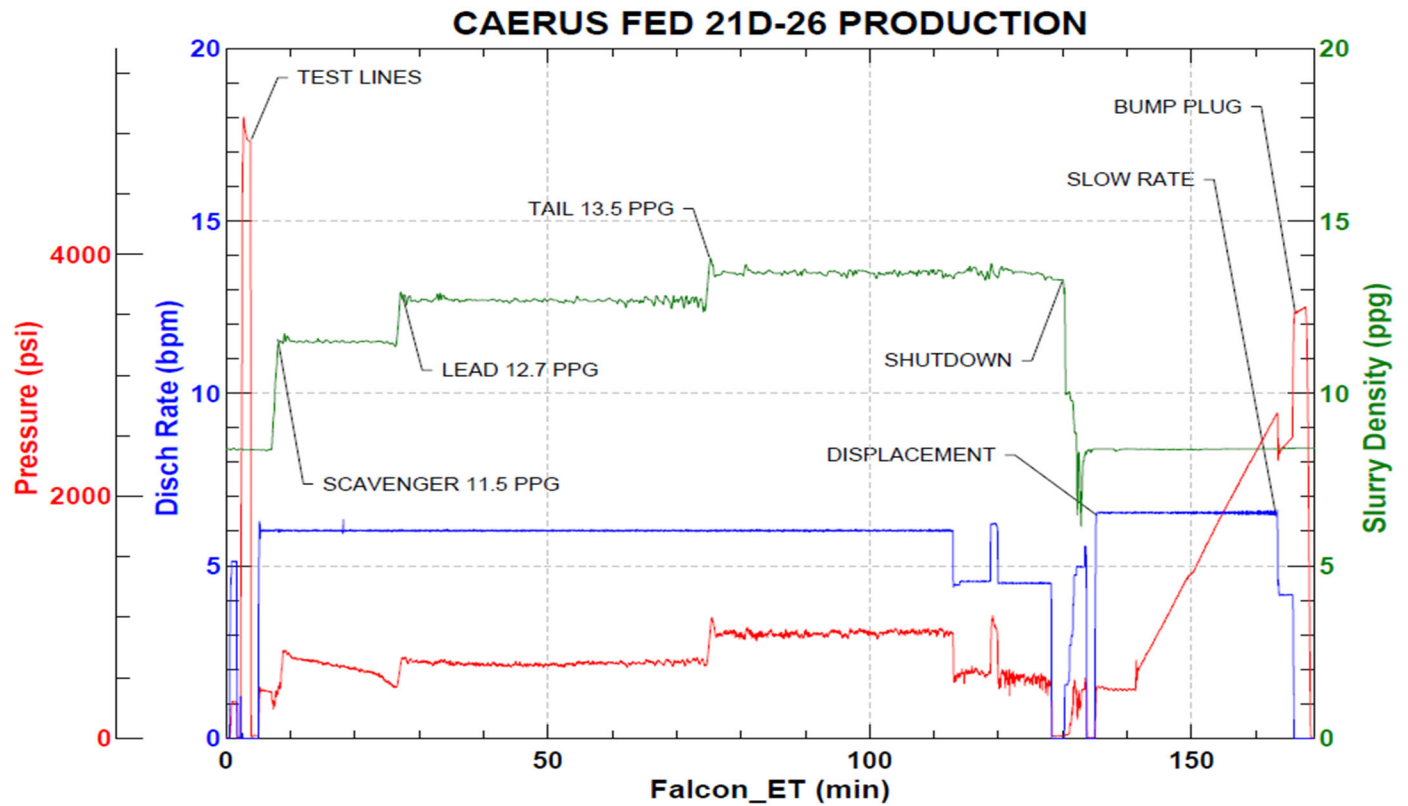
Job Logs

Line	Event	Date (MM/DD/YY)	Time (HH:MM)	Density (lb/gal)	Pump Rate (bpm)	Pump Volume (bbls)	Pipe Pressure (psi)	Comment
1	CALLOUT	7/18/2022	15:00					ON LOCATION AT 20:00 HRS
2	LEAVE THE YARD	7/18/2022	16:30					CREW LEAVE THE YARD
3	ON LOCATION	7/18/2022	18:00					CREW ON LOCATION
4	RIG UP	7/18/2022	18:15					RIG UP MEETING, RIG UP
5	SAFETY MEETING	7/19/2022	00:40					PRE-JOB SAFETY MEETING
6	PRESSURE TEST	7/19/2022	01:01				5130	PRESSURE TEST LINES
7	SCAVENGER	7/19/2022	01:07	11.5	6	58	587	SCAV 235 SKS/116 BBLS AT 11.5 PPG
8	SCAVENGER	7/19/2022	01:17	11.5	6	58	425	116 BBLS SCAVENGER PUMPED, START PARASITE AIR AT 400
9	LEAD CEMENT	7/19/2022	01:25	12.7	6	50	631	LEAD 786 SKS/280 BBLS AT 12.7 PPG, CALCULATED TOP OF LEAD 1,985'
10	LEAD CEMENT	7/19/2022	01:34	12.7	6	50	597	100 BBLS LEAD CEMENT PUMPED
11	LEAD CEMENT	7/19/2022	01:42	12.7	6	50	605	150 BBLS LEAD CEMENT PUMPED
12	LEAD CEMENT	7/19/2022	01:50	12.7	6	50	629	200 BBLS LEAD CEMENT PUMPED
13	LEAD CEMENT	7/19/2022	01:59	12.7	6	80	645	280 BBLS LEAD CEMENT PUMPED
14	TAIL CEMENT	7/19/2022	02:13	13.5	6	50	851	TAIL 818 SKS/291 BBLS AT 13.5 PPG
15	TAIL CEMENT	7/19/2022	02:22	13.5	6	50	865	100 BBLS TAIL CEMENT PUMPED, SHUT PARASITE AIR
16	TAIL CEMENT	7/19/2022	02:30	13.5	6	50	879	150 BBLS TAIL CEMENT PUMPED, LOST RETURNS AT 140 BBLS
17	TAIL CEMENT	7/19/2022	02:39	13.5	6	50	891	200 BBLS TAIL CEMENT PUMPED
18	TAIL CEMENT	7/19/2022	02:47	13.5	6	91	877	291 BBLS TAIL CEMENT PUMPED
19	SHUTDOWN	7/19/2022	03:07					WASH PUMP AND LINES, DROP PLUG
20	DISPLACEMENT	7/19/2022	03:13	8.34	6.5	50	671	DISPLACEMENT WATER + RESCARE
21	DISPLACEMENT	7/19/2022	03:21	8.34	6.5	50	1383	100 BBLS DISPLACEMENT PUMPED
22	DISPLACEMENT	7/19/2022	03:29	8.34	6.5	80	2685	180 BBLS DISPLACEMENT PUMPED
23	SLOW RATE	7/19/2022	03:42	8.34	4	10	2488	SLOW RATE
24	LAND PLUG	7/19/2022	03:44				3523	LAND PLUG, 644 BBLS MUD TO SURFACE
25	CHECK FLOATS	7/19/2022	03:47					FLOATS HELD, 2.5 BBLS FLOW BACK
26	RIG DOWN	7/19/2022	04:15					RIG DOWN MEETING, RIG DOWN
27	LEAVE LOCATION	7/19/2022	05:00					CREW LEAVE LOCATION

Pump Diagrams



JobMaster Program Version 5.01C1
Job Number: 82469
Customer: CAERUS
Well Name: FED 21D-26



Job Start: Tuesday, July 19, 2022