



Terra Energy Partners, LLC

LONG STRING POST JOB REPORT

FED RG 424-13-298 05-103-12573
S:13 T:2S R:98W Rio Blanco CO

CallSheet #: 90818
Proposal #: 75278



LONG STRING Post Job Report

Attention: Mr. Dustin Childers | (936) 524-8828 | dchilders@terraep.com
Terra Energy Partners, LLC
4828 Loop Central Dr., Suite 900 | Houston, TX 77081

Dear Mr. Dustin Childers,

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	3117	0
Open Hole	Outer	n/a	8.75	n/a	n/a	3117	7873	45
Open Hole	Outer	n/a	8.75	n/a	n/a	7873	11652	45
Casing	Inner	4.5	4	11.6	n/a	0	11646	0

Equipment / People

Unit Type	Unit	Power Unit	Employee #1
Cement Trailer Float	CTF-249	TRC-769	Jacob Kirchenwitz
Field Storage Silo	FSS-438		
Field Storage Silo	FSS-470		
Light Duty Vehicles	LDV-128		Gerron McClure
Cement Pump Float	CPF-012	TRH-855	James Lujan

Timing

Event	Date/Time
ERTS	03/29/2024 23:00
Call Out	3/29/2024 18:00
Depart Facility	3/29/2024 20:00
On Location	3/29/2024 23:00
Rig Up Iron	3/30/2024 00:00
Job Started	3/30/2024 01:49
Job Completed	3/30/2024 04:30
Rig Down Iron	3/30/2024 05:30
Depart Location	3/30/2024 05:45

General Job Information

Metrics	Value
Well Fluid Density	10 lb/gal
Well Fluid Type	WBM
Rig Circulation Vol	640 bbls
Rig Circulation Time	2 hours
Calculated Displacement	179.9 bbls
Actual Displacement	179 bbls
Total Spacer to Surface	N/A bbls
Total CMT to Surface	N/A bbls
Well Topped Out	No
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 lb/gal
Well Fluid Density Out of Well	10 lb/gal

Job Details (cont.)

Metrics	Value
BHCT	200 °F
BHST	264 °F

Water Analysis

Metrics	Value	Recommended
Water Source	Upright Rig Tank	
Temperature	68 °F	50-80 °F
pH Level	6	5.5-8.5
Chlorides	200 mg/L	0-3000 mg/L
Total Alkalinity	100	0-1000
Total Hardness	10 mg/L	0-500 mg/L
Carbonates	10 mg/L	0-100 mg/L
Sulfates	100 mg/L	0-1500 mg/L
Potassium	200 mg/L	0-3000 mg/L
Iron	10 mg/L	0-300 mg/L

Circulation

Lost Circulation Experienced

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	Water	Flush	8.34			42.00		10.00	6187
2	Lead	Lead	12.70	2.13	11.42		720.00	272.91	6313
3	Tail	Tail	13.50	2.01	9.72		884.00	316.37	7873
4	Displacement	DisplacementFinal	8.34			42.00		179.90	0

Job Fluid Details

Fluid	Type	Fluid	Product	Function	Conc.	Uom
2	Lead	Lead	ASTM TYPE IL	Cement	100.00	%
2	Lead	Lead	A-2	Accelerator	0.10	%BWOB
2	Lead	Lead	FL-66	FluidLoss	0.20	%BWOB
2	Lead	Lead	GW-86	Viscosifier	0.10	%BWOB
2	Lead	Lead	IntegraSeal PHENO	LostCirculation	3.00	lb/sk
2	Lead	Lead	IntegraSeal POLI	LostCirculation	0.25	lb/sk
2	Lead	Lead	R-3	Retarder	0.60	%BWOB
2	Lead	Lead	STATIC FREE	Other	0.01	lb/sk
2	Lead	Lead	XCem-1009	Extender	10.00	lb/sk
2	Lead	Lead	XCem-308	Defoamer	0.30	%BWOB
3	Tail	Tail	CLASS G	Cement	70.00	%
3	Tail	Tail	FLY ASH (POZZOLAN)	Extender	30.00	%
3	Tail	Tail	BENTONITE	Viscosifier	8.00	%BWOB
3	Tail	Tail	FL-24	FluidLoss	0.40	%BWOB
3	Tail	Tail	IntegraSeal PHENO	LostCirculation	3.00	lb/sk
3	Tail	Tail	S-8	StrengthRetgression	26.00	%BWOB
3	Tail	Tail	XCem-308	Defoamer	0.30	%BWOB
3	Tail	Tail	XCem-916	Retarder	0.35	%BWOB

Job Logs

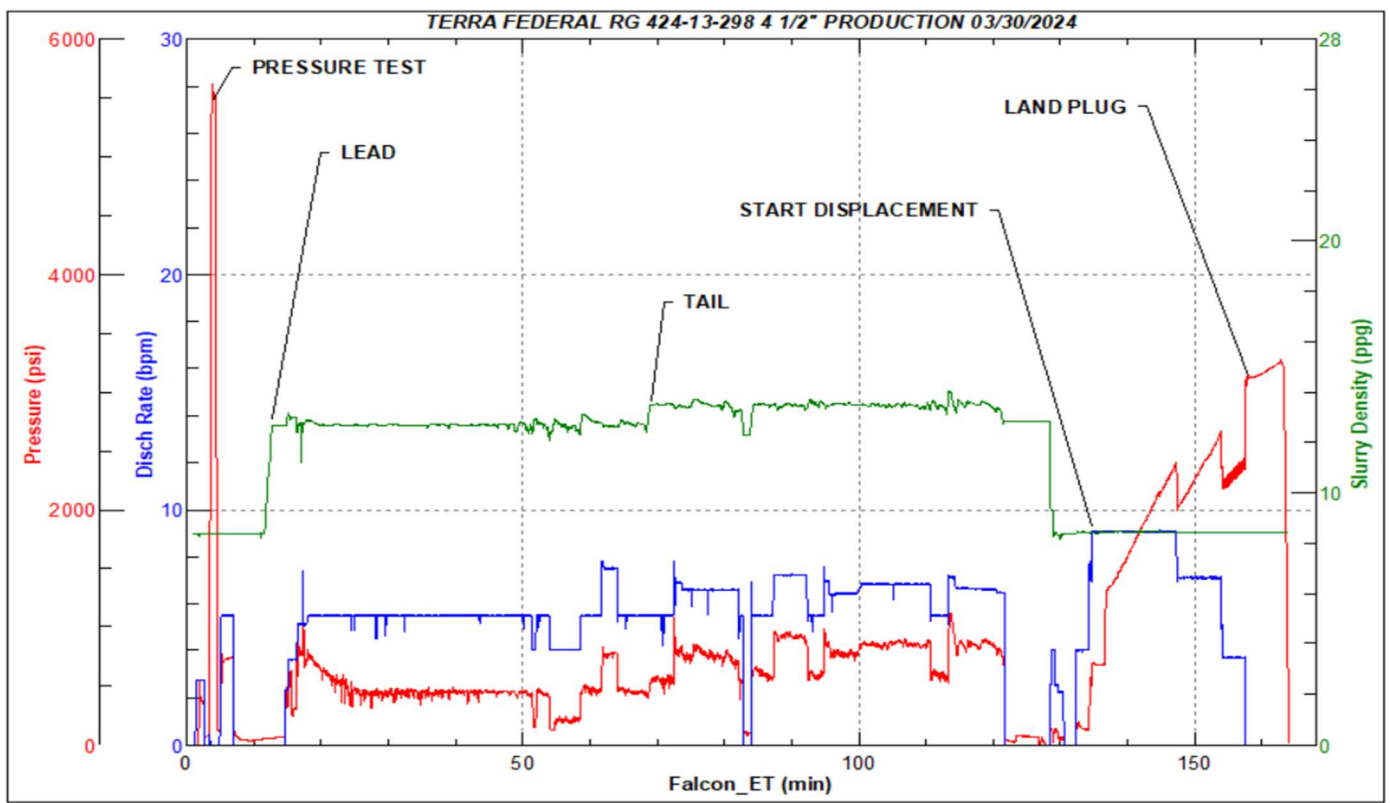
Line	Event	Date (MM/DD/YY)	Time (HH:MM)	Density (lb/gal)	Pump Rate (bpm)	Pump Volume (bbls)	Pipe Pressure (psi)	Comment
1	ARRIVED ON LOCATION	3/29/2024	23:00					ARRIVED ON LOCATION PER CUSTOMER REQUEST 23:00
2	HAZARD ASSESMENT	3/29/2024	23:05					
3	PRE RIG UP SAFETY MEETING	3/29/2024	23:10					
4	RIGGED UP	3/30/2024	00:00					
5	PRE JOB SAFETY MEETING	3/30/2024	01:15					
6	STAB HEAD	3/30/2024	01:25					
7	START JOB	3/30/2024	01:49					START JOB
8	PRESSURE TEST LINES 5000PSI	3/30/2024	01:51	8.34	1	1	5000	PRESSURE TEST LINES 5000 PSI
9	10 BBL FRESH WATER SPACER	3/30/2024	01:53	8.34	5	10	690	10 BBL FRESH WATER SPACER
10	START 273 BBL LEAD @ 12.7	3/30/2024	02:00	12.7	7	1	448	START 273 BBL LEAD SLURRY @ 12.7 (2.13,11.42) 720 TOTAL SACKS
11	50 BBL GONE ON LEAD	3/30/2024	02:11	12.7	7	50	461	
12	100 BBL GONE LEAD	3/30/2024	02:21	12.7	7	100	488	
13	150 BBL GONE ON LEAD	3/30/2024	02:30	12.7	7	150	440	
14	200 BBL GONE ON LEAD	3/30/2024	02:39	12.7	7	200	460	
15	250 BBL GONE ON LEAD	3/30/2024	02:48	12.7	7	250	465	
16	END OF LEAD SLURRY	3/30/2024	02:57	12.7	5	273	730	END OF LEAD SLURRY
17	START 316 BBL TAIL SLURRY @ 13.5	3/30/2024	02:57	13.5	5	1	880	START 317 BBL TAIL SLURRY @ 13.5 (2.01,9.72) 884 TOTAL SACKS
18	50 BBL GONE ON TAIL	3/30/2024	03:04	13.5	6	50	850	
19	100 BBL GONE ON TAIL	3/30/2024	03:12	13.5	6	100	637	
20	150 BBL GONE ON TAIL	3/30/2024	03:21	13.5	6	150	580	
21	200 BBL GONE ON TAIL	3/30/2024	03:29	13.5	6	200	846	
22	250 BBL GONE ON TAIL	3/30/2024	03:37	13.5	6	250	850	
23	300 GONE ON TAIL	3/30/2024	03:45	13.5	6	300	838	
24	END OF TAIL	3/30/2024	03:50	13.5	4	317	440	END OF TAIL CEMENT
25	SHUTDOWN/ WASH LINES/ DROP TOP PLUG	3/30/2024	03:51					SHUTDOWN/ WASH LINES/ DROP TOP PLUG
26	START 185 BBL FRESH WATER DISPLACEMENT	3/30/2024	03:59	8.34	4	1	194	START 179.9 BBL FRESH WATER DISPLACEMENT CAUGHT CEMENT @ 32 BBL GONE ON DISPLACEMENT
27	50 BBL GONE ON DISPLACEMENT	3/30/2024	04:06	8.34	8	50	1519	
28	100 BBL GONE ON DISPLACEMENT	3/30/2024	04:13	8.34	8	100	2169	
29	150 BBL GONE ON DISPLACEMENT	3/30/2024	04:19	8.34	8	150	2370	
30	PRESSURE BEFORE SLOWING RATE	3/30/2024	04:21	8.34	8	169	2649	PRESSURE BEFORE SLOWING RATE - 2649
31	SLOW RATE PRESSURE 4 BPM	3/30/2024	04:21	8.34	4	169	2412	SLOW RATE PRESSURE @ 4BPM -2412
32	FINAL LIFT PRESSURE TO LAND PLUG	3/30/2024	04:25	8.34	4	179	2443	FINAL LIFT PRESSURE TO LAND PLUG - 2443
33	LAND PLUG	3/30/2024	04:25	8.34	4	180	3142	LAND PLUG - 3142

Line	Event	Date (MM/DD/YY)	Time (HH:MM)	Density (lb/gal)	Pump Rate (bpm)	Pump Volume (bbls)	Pipe Pressure (psi)	Comment
34	CHECK FLOAT	3/30/2024	04:30					RETURNED 2 BBLs BACK UPON FLOAT CHECK
35	END OF CEMENTING SERVICES	3/30/2024	04:30					END OF CEMENTING SERVICES
36	POST JOB/ PRE RIG DOWN SAFETY MEETING	3/30/2024	04:45					
37	RIGGED DOWN	3/30/2024	05:30					
38	PRE CONVOY SAFETY MEETING	3/30/2024	05:40					
39	LOCATION DEPARTURE	3/30/2024	05:45					
40	END OF JOB	3/30/2024	05:45					END OF JOB

Pump Diagrams



JobMaster Program Version 5.01C1
Job Number: 90818
Customer: TERRA
Well Name: FEDERAL RG 424-13 298



Job Start: Saturday, March 30, 2024