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# **Terra Energy Partners, LLC**

## **SURFACE POST JOB REPORT**

**FEDERAL NR 433-4 05-045-24471**  
**S:3 T:6S R:94W Garfield CO**

CallSheet #: 81699  
Proposal #: 60210



**SURFACE 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

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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,

**Holly Mbugua**

Field Engineer II | (720) 505-1300 | holly.mbugua@americancementing.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	20	19.124	78.67	n/a	0	87	0
Open Hole	Outer	n/a	13.5	n/a	n/a	120	500	16
Open Hole	Outer	n/a	13.5	n/a	n/a	500	1118	16
Casing	Inner	9.625	8.921	36	n/a	0	1118	0

### Timing

Event	Date/Time
Call Out	6/2/2022 16:00
Depart Facility	6/2/2022 16:30
On Location	6/2/2022 17:30
Rig Up Iron	6/2/2022 17:45
Job Started	6/2/2022 22:10
Job Completed	6/2/2022 22:55
Rig Down Iron	6/2/2022 23:00
Depart Location	6/2/2022 23:59

### Equipment / People

Unit Type	Unit	Power Unit	Employee #1
Cement Trailer Float	CTF-249	TRC(TRB)-201	Richey, Steven
Cement Pump Float	CPF-053	TRH-1140	Woronovitch, Collin
Light Duty Vehicles	LDV-063		Castillo, Francisco

### General Job Information

Metrics	Value
Well Fluid Density	9.2 lb/gal
Well Fluid Type	WBM
Rig Circulation Vol	300 bbls
Rig Circulation Time	0.5 hours
Calculated Displacement	83 bbls
Actual Displacement	83 bbls
Total Spacer to Surface	20 bbls
Total CMT to Surface	17 bbls
Well Topped Out	No

### 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	9.2 lb/gal
Well Fluid Density Out of Well	9.2 lb/gal

### Job Details (cont.)

Metrics	Value
BHCT	80 °F
BHST	97 °F

### Water Analysis

Metrics	Value	Recommended
Water Source	None	
Temperature	67 °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
No

## Job Execution Information

Fluid	Product	Function	Density (lb/gal)	Yield (ft <sup>3</sup> /sk)	Water Rq. (gal/sk)	Water Rq. (gal/bbl)	Volume (sks)	Volume (bbl)	Designed Top (ft)
1	Water	Flush	8.34			42.00		20.00	0
2	Lead	Lead	12.30	2.21	12.72		179.00	70.56	0
3	Tail	Tail	12.80	1.97	10.87		183.00	64.05	500
4	Water	DisplacementFinal	8.34			42.00		83.00	0

## Job Fluid Details

Fluid	Type	Fluid	Product	Function	Conc.	Uom
2	Lead	Lead	ASTM TYPE I/II	Cement	100.00	%
2	Lead	Lead	A-7P	Accelerator	2.00	lb/sk
2	Lead	Lead	FP-24	Defoamer	0.30	%BWOB
2	Lead	Lead	IntegraSeal POLI	LostCirculation	0.25	lb/sk
2	Lead	Lead	STATIC FREE	Other	0.01	lb/sk
2	Lead	Lead	XCem-1101	Thixotropic	1.00	lb/sk
3	Tail	Tail	ASTM TYPE I/II	Cement	100.00	%
3	Tail	Tail	A-7P	Accelerator	2.00	lb/sk
3	Tail	Tail	FP-24	Defoamer	0.30	%BWOB
3	Tail	Tail	IntegraSeal POLI	LostCirculation	0.25	lb/sk
3	Tail	Tail	STATIC FREE	Other	0.01	lb/sk
3	Tail	Tail	XCem-1101	Thixotropic	1.00	lb/sk

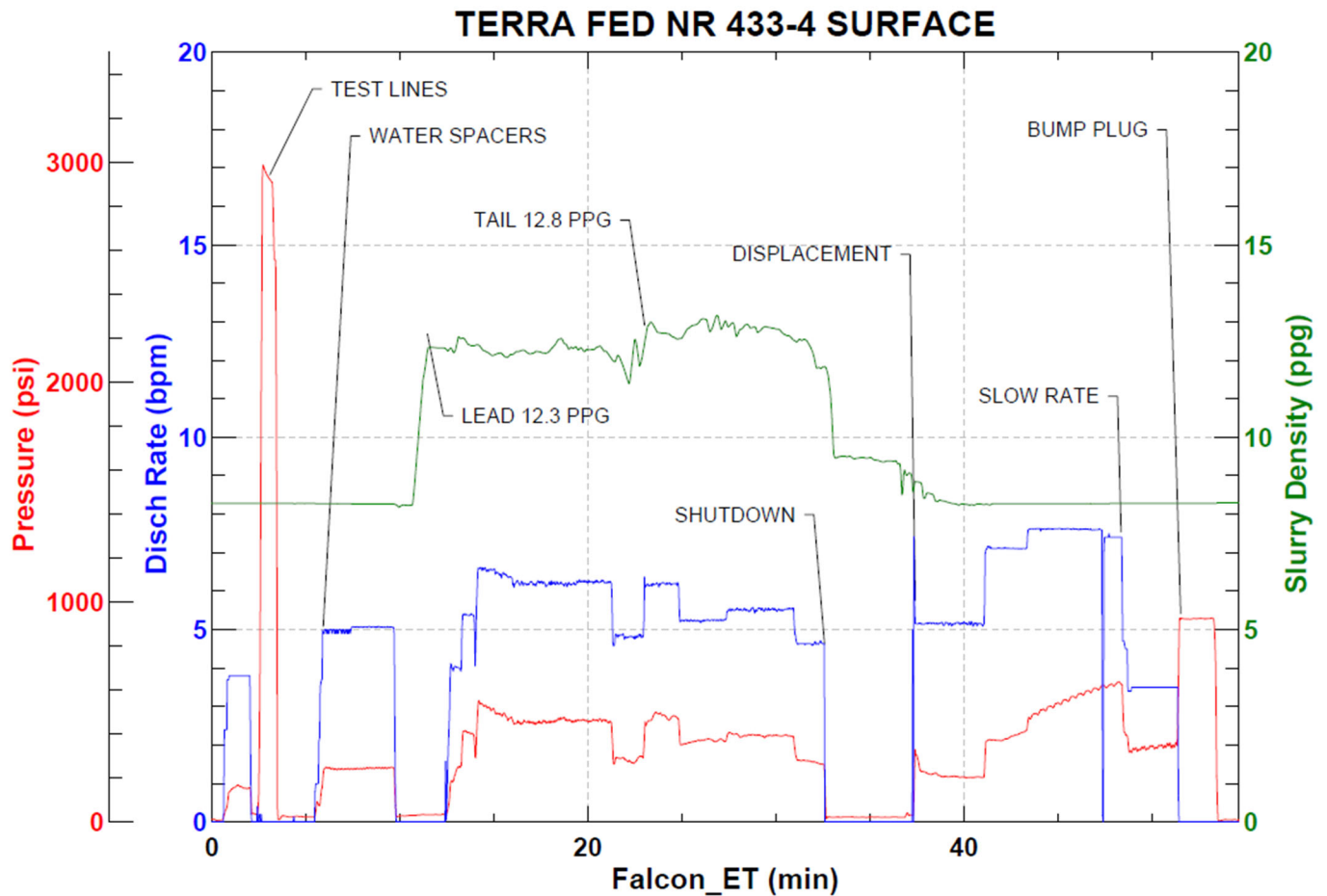
## Job Logs

Line	Event	Date (MM/DD/YY)	Time (HH:MM)	Density (lb/gal)	Pump Rate (bpm)	Pump Volume (bbls)	Pipe Pressure (psi)	Comment
1	CALLOUT	6/2/2022	16:00					ON LOCATION AT 17:30 HRS
2	LEAVE THE YARD	6/2/2022	16:30					CREW LEAVE THE YARD
3	ON LOCATION	6/2/2022	17:30					CREW ON LOCATION
4	RIG UP	6/2/2022	17:45					RIG UP MEETING, RIG UP
5	SAFETY MEETING	6/2/2022	21:45					PRE-JOB SAFETY MEETING
6	PRESSURE TEST	6/2/2022	22:06				3022	PRESSURE TEST LINES
7	PUMP SPACER	6/2/2022	22:10	8.34	5	20	249	WATER SPACER
8	LEAD CEMENT	6/2/2022	02:16	12.3	6.5	70	437	LEAD 179 SKS/70 BBLS AT 12.3 PPG
9	TAIL CEMENT	6/2/2022	22:27	12.8	5.5	65	397	TAIL 183 SKS/64 BBLS AT 12.8 PPG
10	SHUTDOWN	6/2/2022	22:37					SHUTDOWN, DROP PLUG
11	DISPLACEMENT	6/2/2022	22:41	8.34	7.5	73	567	DISPLACEMENT WATER
12	SLOW RATE	6/2/2022	22:52	8.34	3.5	10	355	SLOW RATE
13	LAND PLUG	6/2/2022	22:55				927	LAND PLUG, 17 BBLS CMT TO SURFACE
14	CHECK FLOATS	6/2/2022	22:57					FLOATS HELD, 0.5 BBL FLOW BACK
15	RIG DOWN	6/2/2022	23:00					RIG DOWN MEETING, RIG DOWN
16	LEAVE LOCATION	6/2/2022	23:59					CREW LEAVE LOCATION

## Pump Diagrams



JobMaster Program Version 5.01C1  
Job Number: 81699  
Customer: TERRA  
Well Name: FED NR 433-4



Job Start: Thursday, June 02, 2022