



---

# **Terra Energy Partners, LLC**

## **SURFACE POST JOB REPORT**

**FEDERAL RG 512-7-297 05-103-12484**  
**S:7 T:2S R:97W Rio Blanco CO**

CallSheet #: 83190  
Proposal #: 62836



**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

---

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	19.5	53	n/a	0	80	0
Open Hole	Outer	n/a	17.5	n/a	n/a	80	1432	20
Casing	Inner	13.375	12.615	54.5	Buttress	0	1432	0

### Equipment / People

Unit Type	Unit	Power Unit	Employee #1
AS Cement Trailer Float	CTF-019	TRC(TRB)-425	Carrasco, Joel
Field Storage Float	FSF(CTF)-389		
Light Duty Vehicles	LDV-062		Lancaster, Stephen
Cement Pump Float	CPF-091	TRH-082	Brady, Shawn
Cement Trailer Float	CTF-246	TRC(TRB)-202	Bradbrook, Jeremy

### Timing

Event	Date/Time
Call Out	8/28/2022 18:37
Depart Facility	8/29/2022 02:30
On Location	8/29/2022 03:00
Rig Up Iron	8/29/2022 03:40
Job Started	8/29/2022 04:50
Job Completed	8/29/2022 07:33
Rig Down Iron	8/29/2022 07:35
Depart Location	8/29/2022 08:50

### General Job Information

Metrics	Value
Well Fluid Density	9.2 lb/gal
Well Fluid Type	WBM
Rig Circulation Vol	326 bbls
Rig Circulation Time	0.5 hours
Calculated Displacement	221 bbls
Actual Displacement	221 bbls
Total Spacer to Surface	20 bbls
Total CMT to Surface	47 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	74 °F
BHST	90 °F

### Water Analysis

Metrics	Value	Recommended
Water Source	None	
Temperature	80 °F	50-80 °F
pH Level	6	5.5-8.5
Chlorides	200 mg/L	0-3000 mg/L
Total Alkalinity	300	0-1000
Total Hardness	70 mg/L	0-500 mg/L
Carbonates	90 mg/L	0-100 mg/L
Sulfates	100 mg/L	0-1500 mg/L
Potassium	450 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	Primary Cement	Primary	12.30	2.34	13.42		536.00	223.25	0
3	Water	DisplacementFinal	8.34			42.00		215.00	0

## Job Fluid Details

Fluid	Type	Fluid	Product	Function	Conc.	Uom
2	Primary	Primary Cement	ASTM TYPE I/II	Cement	100.00	%
2	Primary	Primary Cement	A-10	Accelerator	5.00	%BWOB
2	Primary	Primary Cement	A-2	Accelerator	2.00	lb/sk
2	Primary	Primary Cement	A-7P	Accelerator	2.00	lb/sk
2	Primary	Primary Cement	FP-24	Defoamer	0.30	%BWOB
2	Primary	Primary Cement	IntegraSeal POLI	LostCirculation	0.25	lb/sk
2	Primary	Primary Cement	STATIC FREE	Other	0.01	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	8/28/2022	18:37					Callout for on location time of 4:00
2	Depart For Location	8/29/2022	02:00					Leave Rifle yard for location
3	Arrive On Location	8/29/2022	03:30					Arrive on location, rig preparing to run casing
4	Spot Equipment	8/29/2022	03:35					Spot in all equipment
5	Rig Up Iron	8/29/2022	03:40					Pre rig up safety meeting, rig in all equipment and lines to the standpipe
6	Safety Meeting	8/29/2022	04:50					Pre job safety meeting with company man
7	Fill Lines	8/29/2022	00:00					
8	Pressure Test Lines	8/29/2022	04:55	8.34	4	20	193	Pumping freshwater spacer, returns
9	Pump Spacer	8/29/2022	05:05				3000	Pressure test
10	Pump Primary Cement	8/29/2022	05:14	12.3	6.6	5	305	Pumping primary cement
11	Pump Primary Cement	8/29/2022	05:20	12.3	6.6	50	448	Pumping primary cement
12	Pump Primary Cement	8/29/2022	05:27	12.3	7.3	100	523	Pumping primary cement
13	Pump Primary Cement	8/29/2022	05:34	12.3	5.2	150	317	Pumping primary cement
14	Pump Primary Cement	8/29/2022	05:41	12.3	7.5	200	567	Pumping primary cement
15	Pump Primary Cement	8/29/2022	05:44	12.3	5.2	223	311	Pumping primary cement
16	Drop Plug	8/29/2022	05:46					Dropped top plug verified by company man
17	Pump Displacement	8/29/2022	05:59	8.34	5	20	197	Pumping freshwater displacement
18	Pump Displacement	8/29/2022	06:05	8.34	4.7	50	177	Pumping freshwater displacement;
19	Pump Displacement	8/29/2022	06:15	8.34	4.7	100	252	Pumping freshwater displacement; Cement to surface at 100 bbls.
20	Pump Displacement	8/29/2022	06:28	8.34	4.7	150	380	Pumping freshwater displacement
21	Pump Displacement	8/29/2022	06:38	8.34	4.7	200	460	Pumping freshwater displacement, wait 5 mins for cement to fall
22	Pump Displacement	8/29/2022	06:47	8.34	2	210	394	Pumping freshwater displacement, wat 5 mins for cement to fall
23	Pump Displacement	8/29/2022	06:54	8.34	2	215	414	Pumping freshwater displacement, wait 5 mins for cement to fall
24	Land Plug	8/29/2022	07:01	8.34	2	221	1144	Land plug, final circ pressutr464, bump to 1144 psi, got 47 bbls cement to surface
24	Casg Test	8/29/2022	07:02					Hold 31 min casing test
25	Check Floats	8/29/2022	07:33					Bleed pressure, floats holding got 1 bbls back
26	Rig Up Iron	8/29/2022	07:35					Rig down iron
27	Depart Location	8/29/2022	08:50					Leave location

## Pump Diagrams

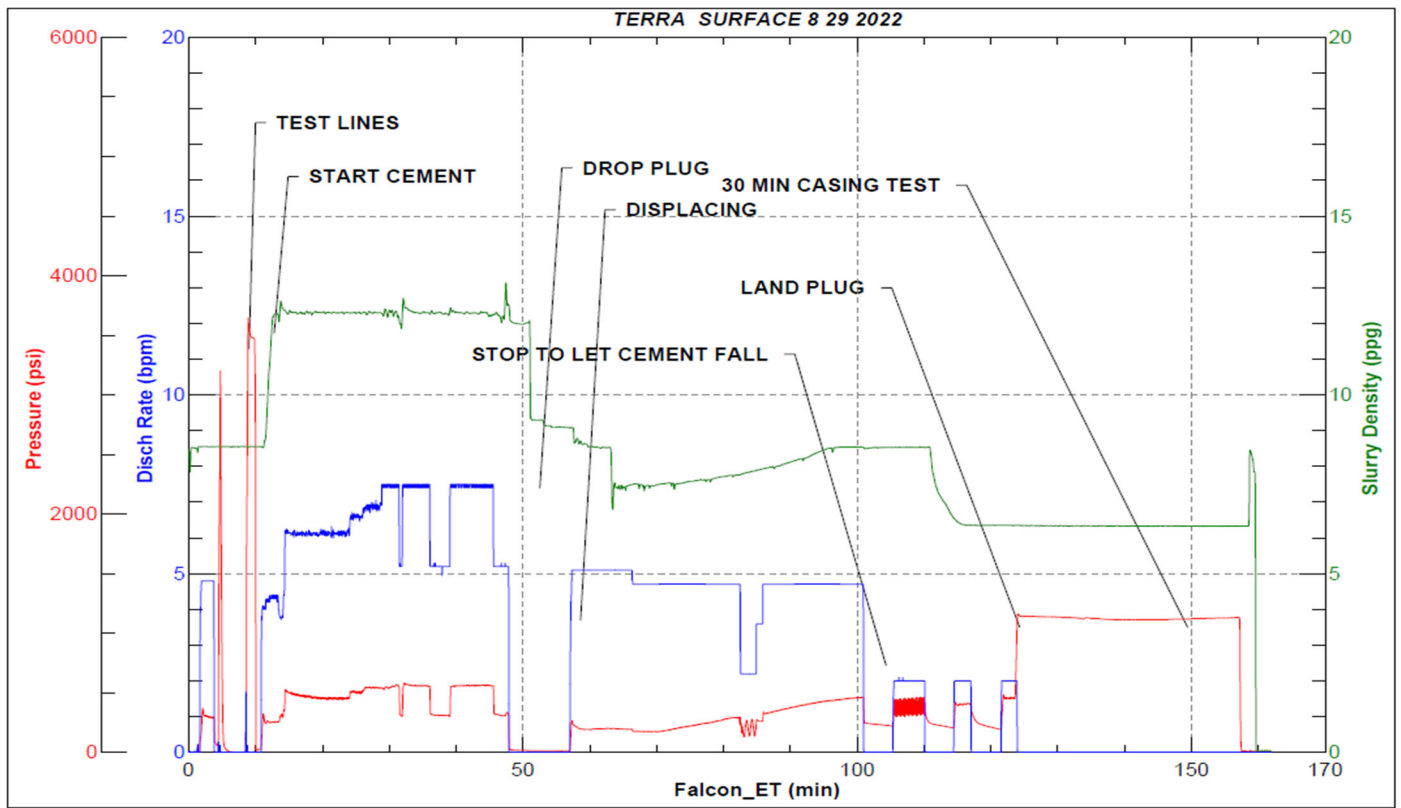


JobMaster Program Version 5.01C1

Job Number: 83190

Customer: TERRA

Well Name: FEDERAL RG 512-7-297



Job Start: Monday, August 29, 2022