



# **Terra Energy Partners, LLC**

## **SURFACE POST JOB REPORT**

**FEDERAL RWF 531-9 05-045-24399**  
**S:9 T:6S R:94W Garfield CO**

CallSheet #: 79304  
Proposal #: 56327



**SURFACE Post Job Report**

**Attention:** 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 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,

**Michael Harold**

Field Engineer II | (970) 773-3636 | michael.harold@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 (%)
Open Hole	Outer	n/a	13.5	n/a	n/a	0	500	16
Open Hole	Outer	n/a	13.5	n/a	n/a	500	1100	16
Casing	Inner	9.625	8.921	36	n/a	0	1100	0

### Equipment / People

Unit Type	Unit	Power Unit	Employee #1
Cement Trailer	CTF-407	TRH(TRB)-769	Dewit, Eric
Cement Pump	CPF-011	TRH-1140	McNeal, Lawrence
Light Duty Vehicles	LDV-5429		Lancaster, Stephen
Light Duty Vehicles	LDV-063		Castillo, Francisco

### Timing

Event	Date/Time
Call Out	11/28/2021 13:00
Depart Facility	11/28/2021 14:00
On Location	11/28/2021 22:30
Rig Up Iron	11/28/2021 23:20
Job Started	11/29/2021 01:50
Job Completed	11/29/2021 02:57
Rig Down Iron	11/29/2021 02:58
Depart Location	11/29/2021 03:53

### General Job Information

Metrics	Value
Well Fluid Density	9PPG lb/gal
Well Fluid Type	WBM
Rig Circulation Vol	183 bbls
Rig Circulation Time	0.4 hours
Calculated Displacement	83.5 bbls
Actual Displacement	83.5 bbls
Total Spacer to Surface	20 bbls
Total CMT to Surface	16 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 lb/gal
Well Fluid Density Out of Well	9 lb/gal

### Job Details (cont.)

Metrics	Value
BHCT	80 °F
BHST	97 °F

### Circulation

Lost Circulation Experienced	Losses into Spacer	Losses into Cement	Losses into Displacement
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 Cement	Lead	12.30	2.34	13.42		122.00	50.82	0
3	Tail Cement	Tail	12.80	2.08	11.46		174.00	64.35	500
4	Water	DisplacementFinal	8.34			42.00		82.00	0

### Job Fluid Details

Fluid	Type	Fluid	Product	Function	Conc.	Uom
2	Lead	Lead Cement	ASTM TYPE III	Cement	100.00	%
2	Lead	Lead Cement	A-10	Accelerator	5.00	%BWOB
2	Lead	Lead Cement	A-2	Accelerator	2.00	lb/sk
2	Lead	Lead Cement	A-7P	Accelerator	2.00	lb/sk
2	Lead	Lead Cement	FP-24	Defoamer	0.30	%BWOB
2	Lead	Lead Cement	IntegraSeal POLI	LostCirculation	0.25	lb/sk
3	Tail	Tail Cement	ASTM TYPE III	Cement	100.00	%
3	Tail	Tail Cement	A-10	Accelerator	5.00	%BWOB
3	Tail	Tail Cement	A-2	Accelerator	2.00	lb/sk
3	Tail	Tail Cement	A-7P	Accelerator	2.00	lb/sk
3	Tail	Tail Cement	FP-24	Defoamer	0.30	%BWOB
3	Tail	Tail Cement	IntegraSeal POLI	LostCirculation	0.25	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	11/28/2021	13:00					Callout for the job
2	Depart yard	11/28/2021	14:00					Cabbed up down hill and wait
3	Arrive On Location	11/28/2021	22:00					Starting to tow us up to location
4	Arrive On Location	11/28/2021	22:45					All trucks up the hill
5	Rig Up Iron	11/28/2021	22:55					Starting rig up iron
6	Rig Up Iron	11/28/2021	23:20					Finish rigging up iron/ Rig running csg
7	Safety Meeting	11/29/2021	01:50					Held safety meeting with rig crew
8	Pressure Test Lines	11/29/2021	02:10					Test lines to 3000
9	Pump Water	11/29/2021	02:15					20 bbls water
10	Pump Lead Cement	11/29/2021	02:19	12.3	5		290	Start lead cement
11	Pump Lead Cement	11/29/2021	02:24	12.3	6	30		30 bbls pumped
12	Pump Lead Cement	11/29/2021	02:27	12.3	6	51	450	51 Lead swap to tail
13	Pump Tail Cement	11/29/2021	02:29	12.8	6	30	420	30 bbls pumped
14	Pump Tail Cement	11/29/2021	02:35	12.8	6	41	438	41 pumped
15	Pump Tail Cement	11/29/2021	02:39	12.8	6	50.8	420	End tail cement
16	Drop Top Plug	11/29/2021	02:43				450	Drop Top Plug
17	Pump Displacement	11/29/2021	02:45		6		490	Good returns to the cellar
18	Pump Displacement	11/29/2021	02:52		6	50	520	Good returns to the cellar
19	Pump Displacement	11/29/2021	02:54		6	68	530	Good cement to surface at 68 bbls pumped
20	Land Plug	11/29/2021	02:57		3	83.5	820	Bumped plug at 83.5 bbls pumped
21	Check Floats	11/29/2021	02:58					Bleed press , floats holding .5 bbls back
22	Rig Down Iron	11/29/2021	03:00					Rig down head and iron

# Pump Diagrams



JobMaster Program Version 5.01C1  
Job Number: 79304  
Customer: TERRA  
Well Name: FEDERAL RWF 531-9

