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# **Terra Energy Partners, LLC**

## **INTERMEDIATE POST JOB REPORT**

**RG 341-18-297 05-103-12470**  
**S:18 T:2S R:97W Rio Blanco CO**

CallSheet #: 77096  
Proposal #: 53143



**INTERMEDIATE Post Job Report**

**Attention:** Mr. Lynn Cass | (970) 263-2716 | lcass@terraep.com  
Terra Energy Partners, LLC  
4828 Loop Central Dr., Suite 900 | Houston, TX 77081

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Dear Mr. Lynn Cass,

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,

**Zen Keith**

Field Engineer | (307) 757-7178 | zen.keith@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	13.375	12.615	54.5	n/a	0	1430	0
Open Hole	Outer	n/a	12.25	n/a	n/a	1430	3286	50
Casing	Inner	9.625	8.921	36	LTC	0	3276	0

### Equipment / People

Unit Type	Unit	Power Unit	Employee #1
Bulk Trailer	CTF-555	TRC(TRB)-190	Richey, Steven
Light Duty Pickups	LDV-063		Castillo, Francisco
Cement Pump	CPF-120	TRH-1137	Washington, Cartrie

### Timing

Event	Date/Time
Call Out	5/29/2021 10:00
Depart Facility	5/29/2021 11:25
On Location	5/29/2021 12:38
Rig Up Iron	5/29/2021 12:55
Job Started	5/29/2021 18:00
Job Completed	5/29/2021 18:59
Rig Down Iron	5/29/2021 19:10
Depart Location	5/29/2021 20:15

### General Job Information

Metrics	Value
Well Fluid Density	9.1 lb/gal
Well Fluid Type	WBM
Rig Circulation Vol	300 bbls
Rig Circulation Time	0.5 hours
Calculated Displacement	250 bbls
Actual Displacement	250 bbls
Total Spacer to Surface	0 bbls
Total CMT to Surface	0 bbls
Well Topped Out	No

### Job Details

Metrics	Value
Flare Prior to Job	No
Flare During Job	No
Flare at End of Job	No
Well Full Prior to Job	No
Well Fluid Density Into Well	9.1 lb/gal
Well Fluid Density Out of Well	9.1 lb/gal

### Job Details (cont.)

Metrics	Value
BHCT	87 °F
BHST	116 °F

### Water Analysis

Metrics	Value	Recommended
Water Source	Flat Tank	
Temperature	65 °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	ALL	ALL	ALL

#### Circulation Details

NO RETURNS THROUGH OUT THE ENTIRE JOB.

## Job Execution Information

Fluid	Product	Function	Density (lb/gal)	Yield (ft <sup>3</sup> /sk)	Water Rq. (gal/sk)	Water Rq. (gal/bbl)	Volume (sk)	Volume (bbl)	Designed Top (ft)
1	Water	Flush	8.34			42.00		40.00	1783
2	Lead Cement	Lead	12.30	2.36	13.32		100.00	42.07	2261
3	Tail Cement	Tail	12.80	2.10	11.34		121.00	45.19	2761
4	Displacement	DisplacementFinal	8.34			42.00		250.00	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 PHENO	LostCirculation	3.00	lb/sk
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 PHENO	LostCirculation	3.00	lb/sk
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	5/29/2021	10:00					ON LOCATION AT 14:00 HRS
2	LEAVE YARD	5/29/2021	11:25					CREW LEAVE THE YARD
3	ON LOCATION	5/29/2021	12:38					CREW ON LOCATION
4	RIG UP	5/29/2021	12:55					RIG UP MEETING, RIG UP
5	SAFETY MEETING	5/29/2021	17:41					PRE-JOB SAFETY MEETING
6	PRESSURE TEST	5/29/2021	17:58				4400	PRESSURE TEST LINES
7	PUMP SPACER	5/29/2021	18:00	8.34	7	40	339	WATER SPACER
8	LEAD CEMENT	5/29/2021	18:07	12.3	7	42	437	LEAD 100 SKS/42 BBLS AT 12.3 PPG
9	TAIL CEMENT	5/29/2021	18:15	12.8	7	45	541	TAIL 121 SKS/45 BBLS AT 12.8 PPG
10	SHUTDOWN	5/29/2021	18:24					SHUTDOWN, DROP PLUG
11	DISPLACEMENT	5/29/2021	18:26	8.34	10	50	531	DISPLACEMENT WATER
12	DISPLACEMENT	5/29/2021	18:31	8.34	8	50	351	100 BBLS DISPLACEMENT PUMPED
13	DISPLACEMENT	5/29/2021	18:37	8.34	8	50	349	150 BBLS DISPLACEMENT PUMPED
14	DISPLACEMENT	5/29/2021	18:43	8.34	8	50	465	200 BBLS DISPLACEMENT PUMPED
15	DISPLACEMENT	5/29/2021	18:50	8.34	8	40	715	240 BBLS DISPLACEMENT PUMPED
16	SLOW RATE	5/29/2021	18:55	8.34	3	10	457	SLOW RATE LAST 10 BBLS
17	LAND PLUG	5/29/2021	18:59				959	LAND PLUG, NO RETURNS
18	CHECK FLOATS	5/29/2021	19:04					FLOATS HELD
19	RIG DOWN	5/29/2021	19:10					RIG DOWN MEETING, RIG DOWN
20	LEAVE LOCATION	5/29/2021	20:15					CREW LEAVE LOCATION

## Pump Diagrams



JobMaster Program Version 5.01C1

Job Number: 77096

Customer: TERRA

Well Name: RG 341-18

