



---

# Terra Energy Partners, LLC

## SURFACE POST JOB REPORT

CHEVRON GM 343-19 05-045-24353  
S:20 T:6S R:96W Garfield CO

CallSheet #: 75639  
Proposal #: 50956



**SURFACE Post Job Report**

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

---

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@americacementing.com](mailto:zen.keith@americacementing.com)

**Field Office**      28730 US-6, Rifle, CO 81650  
Phone: (970) 305-4888

## Table of Contents

1 Job Details & Summary .....	3
Geometry .....	3
Equipment / People .....	3
Timing .....	3
General Job Information .....	3
Well Fluid Details .....	3
Job Details .....	3
Job Details (cont.) .....	3
Circulation .....	3
Job Execution Information .....	4
Job Fluid Details .....	4
2 Job Logs .....	4
3 Water Analysis .....	5
4 Pump Diagrams .....	5

# 1 Job Details & Summary

## Geometry

Type	Function	OD (in)	ID (in)	Weight (lb/ft)	Thread	Top (ft)	Bottom (ft)	Excess (%)
Open Hole	Outer		13.5			0	500	16
Open Hole	Outer		13.5			500	1000	16
Casing	Inner	9.625	8.921	36		0	1000	0

## Equipment / People

Unit Type	Unit	Power Unit	Employee #1	Mileage
Bulk Trailer	CTF-407	TRB-425	Richey, Steven	56
Cement Pump	CPF-011	TRH-957	Mcneal, Lawrence	56
Light Duty Pickups	LDV-5429		Castillo, Francisco	56

## Timing

Event	Date/Time
Call Out	12/12/2020 09:00
Depart Facility	12/12/2020 09:40
On Location	12/12/2020 11:30
Rig Up Iron	12/12/2020 11:45
Job Started	12/12/2020 12:49
Job Completed	12/12/2020 13:24
Rig Down Iron	12/12/2020 13:40
Depart Location	12/12/2020 14:30

## General Job Information

Metrics	Value
Well Fluid Density	8.9 lb/gal
Well Fluid Type	WBM
Rig Circulation Vol	300 bbls
Rig Circulation Time	0.5 hours
Calculated Displacement	75 bbls
Actual Displacement	75 bbls
Total Spacer to Surface	20 bbls
Total CMT to Surface	25 bbls
Well Topped Out	No

## Well Fluid Details

Metrics	Value
Plastic Viscosity	15
Yield Point	15
10 sec. SGS	8
10 min. SGS	16
30 min. SGS	34
Filtrate	0
Flow Line Temp.	90

## Job Details

Metrics	Value
Flare Prior to Job	No
Flare During Job	No
Flare at End of Job	No
Well Full Prior to Job	Yes
Well Fluid Density Into Well	8.9 lb/gal
Well Fluid Density Out of Well	8.9 lb/gal

## Job Details (cont.)

Metrics	Value
BHCT	80 °F
BHST	97 °F

## Circulation

Lost Circulation Experienced
No

### Job Execution Information

Job	Fluid	Product	Function	Density (lb/gal)	Yield (ft <sup>3</sup> /sk)	Water Rq. (gal/sk)	Water Rq. (gal/bbl)	Volume (sk)	Volume (bbl)	Top (ft)
1	1	Water	Flush	8.34			42.00		20.00	0
1	2	Lead Cement	Lead	12.30	2.34	13.42		122.00	50.82	0
1	3	Tail Cement	Tail	12.80	2.08	11.46		146.00	53.99	500
1	4	Water	DisplacementFinal	8.34			42.00		74.00	0

### Job Fluid Details

Job	Fluid	Type	Fluid	Product	Function	Conc.	Uom
1	2	Lead	Lead Cement	ASTM TYPE III	Cement	100.00	%
1	2	Lead	Lead Cement	A-10	Accelerator	5.00	%BWOB
1	2	Lead	Lead Cement	A-2	Accelerator	2.00	lb/sk
1	2	Lead	Lead Cement	A-7P	Accelerator	2.00	lb/sk
1	2	Lead	Lead Cement	FP-24	Defoamer	0.30	%BWOB
1	2	Lead	Lead Cement	IntegraSeal POLI	LostCirculation	0.25	lb/sk
1	3	Tail	Tail Cement	ASTM TYPE III	Cement	100.00	%
1	3	Tail	Tail Cement	A-10	Accelerator	5.00	%BWOB
1	3	Tail	Tail Cement	A-2	Accelerator	2.00	lb/sk
1	3	Tail	Tail Cement	A-7P	Accelerator	2.00	lb/sk
1	3	Tail	Tail Cement	FP-24	Defoamer	0.30	%BWOB
1	3	Tail	Tail Cement	IntegraSeal POLI	LostCirculation	0.25	lb/sk

### 2 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	12/12/2020	09:00					ON LOCATION AT 11:00 HRS, BODY TEMPS FOR FRANCISCO-98.1, LONNY-98.3, STEVE-98.5
2	LEAVE YARD	12/12/2020	09:40					LEAVE THE YARD
3	ON LOCATION	12/12/2020	11:30					ARRIVE ON LOCATION, RIG LANDING CASING
4	RIG UP	12/12/2020	11:45					RIG UP MEETING, RIG UP
5	SAFETY MEETING	12/12/2020	12:15					PRE-JOB SAFETY MEETING
6	PRESSURE TEST	12/12/2020	12:47				4200	PRESSURE TEST LINES
7	PUMP SPACER	12/12/2020	12:49	8.34	7.5	20	383	WATER SPACER
8	LEAD CEMENT	12/12/2020	12:55	12.3	7	50.5	461	LEAD 122 SKS / 50.5 BBLs AT 12.3 PPG
9	TAIL CEMENT	12/12/2020	13:02	12.8	7	54	495	TAIL 146 SKS / 54 BBLs AT 12.8 PPG
10	SHUTDOWN	12/12/2020	13:11					SHUTDOWN, DROP PLUG
11	DISPLACEMENT	12/12/2020	13:14	8.34	9.7	65	788	DISPLACEMENT
12	DISPLACEMENT	12/12/2020	13:21	8.34	3	10	353	SLOW RATE
13	LAND PLUG	12/12/2020	13:24				1063	LAND PLUG, 25 BBLs CMT TO SURFACE
14	CHECK FLOATS	12/12/2020	13:26					FLOATS DID NOT HOLD
15	RE-BUMP	12/12/2020	13:27					RE-BUMP PLUG, DID NOT HOLD
16	RE-BUMP	12/12/2020	13:28					RE-BUMP PLUG, DID NOT HOLD, CLOSE VALVE WITH 1,000 PSI
17	RIG DOWN	12/12/2020	13:40					RIG DOWN MEETING, RIG DOWN
18	LEAVE LOCATION	12/12/2020	14:30					CREW LEAVE LOCATION

### 3 Water Analysis

Metrics	Value	Recommended
Water Source	Flat Tank	
Temperature	88 °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

### 4 Pump Diagrams

**JobMaster Program Version 5.01C1**  
 Job Number: 75639  
 Customer: TERRA  
 Well Name: GM 343-19

#### TERRA GM 343-19 SURFACE

