



Terra Energy Partners, LLC

SURFACE POST JOB REPORT

RG 344-7-297 05-103-12463
S:18 T:2S R:97W Rio Blanco CO

CallSheet #: 76230
Proposal #: 51845



SURFACE 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

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

Field Office 28730 US-6, Rifle, CO 81650
Phone: (970) 657-1187

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1 Job Details & Summary

Geometry

Type	Function	OD (in)	ID (in)	Weight (lb/ft)	Thread	Top (ft)	Bottom (ft)	Excess (%)
Open Hole	Outer	n/a	17.5	n/a	n/a	0	1423	40
Casing	Inner	13.375	12.615	54.5	Buttress	0	1429.28	0

Equipment / People

Unit Type	Unit	Power Unit	Employee #1	Employee #2	Mileage
Silo	CTS-471				
Bulk Trailer	CTF-242		Richey, Steven		100
Cement Pump	CPF-058	TRH-957	Mcneal, Lawrence	Medina, Martin	100
Light Duty Pickups	LDV-5429		Castillo, Francisco		100

Timing

Event	Date/Time
Call Out	2/27/2021 20:00
Depart Facility	2/27/2021 21:00
On Location	2/27/2021 22:30
Rig Up Iron	2/27/2021 23:00
Job Started	2/28/2021 06:22
Job Completed	2/28/2021 07:46
Rig Down Iron	2/28/2021 08:05
Depart Location	2/28/2021 09:30

General Job Information

Metrics	Value
Well Fluid Density	9.3 lb/gal
Well Fluid Type	WBM
Rig Circulation Vol	300 bbls
Rig Circulation Time	0.5 hours
Calculated Displacement	215 bbls
Actual Displacement	215 bbls
Total Spacer to Surface	40 bbls
Total CMT to Surface	85 bbls
Well Topped Out	No

Well Fluid Details

Metrics	Value
Plastic Viscosity	10
Yield Point	16
10 sec. SGS	14
10 min. SGS	30
30 min. SGS	35
Filtrate	16.8
Flow Line Temp.	75

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	9.3 lb/gal
Well Fluid Density Out of Well	9.3 lb/gal

Job Details (cont.)

Metrics	Value
BHCT	74 °F
BHST	90 °F

Circulation

Lost Circulation Experienced
No

Job Execution Information

Job	Fluid	Product	Function	Density (lb/gal)	Yield (ft ³ /sk)	Water Rq. (gal/sk)	Water Rq. (gal/bbl)	Volume (sks)	Volume (bbl)	Top (ft)
1	1	Water	Flush	8.34			42.00		40.00	0
1	2	Primary Cement	Primary	12.30	2.34	13.42		615.00	256.16	0
1	3	Displacement	DisplacementFinal	8.34			42.00		215.00	0

Job Fluid Details

Job	Fluid	Type	Fluid	Product	Function	Conc.	Uom
1	2	Primary	Primary Cement	ASTM TYPE III	Cement	100.00	%
1	2	Primary	Primary Cement	A-10	Accelerator	5.00	%BWOB
1	2	Primary	Primary Cement	A-2	Accelerator	2.00	lb/sk
1	2	Primary	Primary Cement	A-7P	Accelerator	2.00	lb/sk
1	2	Primary	Primary Cement	FP-24	Defoamer	0.30	%BWOB
1	2	Primary	Primary 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	2/27/2021	20:00					ON LOC 00:00 HRS, CREW TEMPS, JAVI-98.1, LONNY-98.3, STEVE-97.7, MARTIN-98
2	LEAVE YARD	2/27/2021	21:00					CREW LEAVE THE YARD
3	ON LOCATION	2/27/2021	22:30					CREW ON LOCATION
4	RIG UP	2/27/2021	23:00					RIG UP MEETING, RIG UP
5	SAFETY MEETING	2/28/2021	05:45					PRE-JOB SAFETY MEETING
6	PRESSURE TEST	2/28/2021	06:20				3800	PRESSURE TEST LINES
7	PUMP SPACER	2/28/2021	06:22	8.34	6.5	40	347	WATER SPACER
8	PUMP CEMENT	2/28/2021	06:31	12.3	7	50	519	615 SKS / 256 BBLs AT 12.3 PPG
9	PUMP CEMENT	2/28/2021	06:39	12.3	7	50	521	100 BBLs CEMENT PUMPED
10	PUMP CEMENT	2/28/2021	06:46	12.3	7	50	523	150 BBLs CEMENT PUMPED
11	PUMP CEMENT	2/28/2021	06:54	12.3	7	50	507	200 BBLs CEMENT PUMPED
12	PUMP CEMENT	2/28/2021	07:01	12.3	7	515		256 BBLs CEMENT PUMPED
13	SHUTDOWN	2/28/2021	07:12					SHUTDOWN, DROP PLUG
14	DISPLACEMENT	2/28/2021	07:14	8.34	8	50	453	DISPLACEMENT WATER
15	DISPLACEMENT	2/28/2021	07:20	8.34	8	50	551	100 BBLs DISPLACEMENT PUMPED
16	DISPLACEMENT	2/28/2021	07:26	8.34	8.5	50	587	150 BBLs DISPLACEMENT PUMPED
17	DISPLACEMENT	2/28/2021	07:33	8.34	8	55	591	205 BBLs DISPLACEMENT PUMPED
18	DISPLACEMENT	2/28/2021	07:39	8.34	3	10	323	SLOW RATE
19	LAND PLUG	2/28/2021	07:46				921	LAND PLUG, 85 BBLs CMT TO SURFACE
20	CHECK FLOATS	2/28/2021	07:48					FLOATS HELD, 1 BBL FLOW BACK
21	RIG DOWN	2/28/2021	08:05					RIG DOWN MEETING, RIG DOWN
22	LEAVE LOCATION	2/28/2021	09:30					CREW LEAVE LOCATION

3 Water Analysis

Metrics	Value	Recommended
Water Source	Flat Tank	
Temperature	70 °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: 76230
Customer: TERRA
Well Name: RG 344-7

TERRA RG 344-7 SURFACE

