



Terra Energy Partners, LLC

SURFACE POST JOB REPORT

RG 541-18-297 05-103-12472
S:18 T:2S R:97W Rio Blanco CO

CallSheet #: 76264
Proposal #: 51926



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	1417	30
Casing	Inner	13.375	12.615	54.5	Buttress	0	1421.7	0

Equipment / People

Unit Type	Unit	Power Unit	Employee #1	Employee #2	Mileage
Bulk Trailer	CTF-249		Richey, Steven		100
Silo	CTS-471				
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	3/5/2021 23:00
Depart Facility	3/5/2021 23:55
On Location	3/6/2021 01:00
Rig Up Iron	3/6/2021 01:30
Job Started	3/6/2021 05:32
Job Completed	3/6/2021 06:49
Rig Down Iron	3/6/2021 07:00
Depart Location	3/6/2021 08:30

General Job Information

Metrics	Value
Well Fluid Density	9.4 lb/gal
Well Fluid Type	WBM
Rig Circulation Vol	300 bbls
Rig Circulation Time	0.5 hours
Calculated Displacement	214 bbls
Actual Displacement	214 bbls
Total Spacer to Surface	40 bbls
Total CMT to Surface	50 bbls
Well Topped Out	No

Well Fluid Details

Metrics	Value
Plastic Viscosity	12
Yield Point	16
10 sec. SGS	6
10 min. SGS	10
30 min. SGS	17
Filtrate	12.4
Flow Line Temp.	0

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	9.4 lb/gal
Well Fluid Density Out of Well	9.4 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		534.00	223.00	0
1	3	Displacement	DisplacementFinal	8.34			42.00		214.00	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	3/5/2021	23:00					ON LOC 03:00, CREW TEMPS, JAVI-98.1, LONNY-98.3, STEVE-97.9
2	LEAVE YARD	3/5/2021	23:55					CREW LEAVE THE YARD
3	ON LOCATION	3/6/2021	01:00					ON LOCATION
4	RIG UP	3/6/2021	01:30					RIG UP MEETING RIG UP
5	SAFETY MEETING	3/6/2021	05:00					PRE-JOB SAFETY MEETING
6	PRESSURE TEST	3/6/2021	05:30				3800	PRESSURE TEST LINES
7	PUMP SPACER	3/6/2021	05:32	8.34	6.5	40	373	WATER SPACER
8	PUMP CEMENT	3/6/2021	05:41	12.3	7	50	567	534 SKS / 223 BBLs AT 12.3 PPG
9	PUMP CEMENT	3/6/2021	05:48	12.3	7	50	565	100 BBLs CEMENT PUMPED
10	PUMP CEMENT	3/6/2021	05:55	12.3	7	50	558	150 BBLs CEMENT PUMPED
11	PUMP CEMENT	3/6/2021	06:02	12.3	7	73	551	223 BBLs CEMENT PUMPED
12	SHUTDOWN	3/6/2021	06:19					SHUTDOWN, DROP PLUG
13	DISPLACEMENT	3/6/2021	06:20	8.34	8	50	425	DISPLACEMENT WATER
14	DISPLACEMENT	3/6/2021	06:27	8.34	8	50	465	100 BBLs DISPLACEMENT PUMPED
15	DISPLACEMENT	3/6/2021	06:33	8.34	8	50	600	150 BBLs DISPLACEMENT PUMPED
16	DISPLACEMENT	3/6/2021	06:39	8.34	8	54	675	204 BBLs DISPLACEMENT PUMPED
17	DISPLACEMENT	3/6/2021	06:46	8.34	3	10	361	SLOW RATE
18	LAND PLUG	3/6/2021	06:49				881	LAND PLUG, 50 BBLs CMT TO SURFACE
19	CHECK FLOATS	3/6/2021	06:51					FLOATS HELD, 1 BBL FLOW BACK
20	RIG DOWN	3/6/2021	07:00					RIG DOWN MEETING, RIG DOWN
21	LEAVE LOCATION	3/6/2021	08:30					CREW LEAVE LOCATION

3 Water Analysis

Metrics	Value	Recommended
Water Source	Flat Tank	
Temperature	50 °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: 76264
Customer: TERRA
Well Name: RG 541-18

TERRA RG 541-18 SURFACE

