



Terra Energy Partners, LLC

INTERMEDIATE POST JOB REPORT

RG 543-7-297 05-103-12467
S:18 T:2S R:97W Rio Blanco CO

CallSheet #: 77250
Proposal #: 53363



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

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) 657-1157

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	1417	0
Open Hole	Outer	n/a	12.25	n/a	n/a	1487	3410	50
Casing	Inner	9.625	8.921	36	LTC	0	3403	0

Timing

Event	Date/Time
Call Out	6/14/2021 22:00
Depart Facility	6/14/2021 23:15
On Location	6/15/2021 00:28
Rig Up Iron	6/15/2021 00:36
Job Started	6/15/2021 02:52
Job Completed	6/15/2021 04:02
Rig Down Iron	6/15/2021 04:03
Depart Location	6/15/2021 04:45

Equipment / People

Unit Type	Unit	Power Unit	Employee #1	Employee #2
Cement Trailer	CTF-407	TRC(TRB)-190	Sampson, James	
Cement Pump	CPF-011	TRH-1137	Aden, Mark	
Light Duty Vehicles	LDV-061		Diaz, Douglas	Chambers, Andrew

General Job Information

Metrics	Value
Well Fluid Density	8.9 lb/gal
Well Fluid Type	WBM
Rig Circulation Vol	330 bbls
Rig Circulation Time	30 hours
Calculated Displacement	260 bbls
Actual Displacement	282 bbls
Total Spacer to Surface	0 bbls
Total CMT to Surface	0 bbls
Well Topped Out	N/A

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	87 °F
BHST	116 °F

Water Analysis

Metrics	Value	Recommended
Water Source	Frac Tank	
Temperature	71 °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	425 mg/L	0-500 mg/L
Carbonates	0 mg/L	0-100 mg/L
Sulfates	<200 mg/L	0-1500 mg/L
Potassium	0 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	0	0	0

Circulation Details

Returns lost while running casing

Job Execution Information

Fluid	Product	Function	Density (lb/gal)	Yield (ft ³ /sk)	Water Rq. (gal/sk)	Water Rq. (gal/bbl)	Volume (sks)	Volume (bbl)	Designed Top (ft)
1	Water	Flush	8.34			42.00		40.00	1216
2	Lead Cement	Lead	12.30	2.36	13.32		100.00	42.07	1906
3	Tail Cement	Tail	12.80	2.10	11.34		121.00	45.19	26259
4	Displacement	DisplacementFinal	8.34			42.00		260.00	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	6/14/2021	22:00					Yard call 2200 on location 0100
2	Depart For Location	6/14/2021	23:15					Leave Rifle yard for location
3	Arrive On Location	6/15/2021	00:28					Arrive on location, rig rigging up casing crew
4	Spot Equipment	6/15/2021	00:28					Spot in all equipment
5	Rig Up Iron	6/15/2021	00:36					Pre rig up safety meeting, rig in all equipment and lines to the stand pipe
6	Waiting	6/15/2021	01:06					Waiting on rig to run casing and circulate
7	Safety Meeting	6/15/2021	02:40					Pre job safety meeting with company man and rig crew
8	End Circulation	6/15/2021	02:47					Rig ended circulation, circulated 30 mins @ 11 BBLs/min total of 330 BBLs
9	Waiting	6/15/2021	02:47					Waiting on rig to lay down
10	Rig Up Iron	6/15/2021	02:49					crt
11	Pump Spacer	6/15/2021	02:52	8.34	4	20	163	Pumping fresh water spacer, no returns
12	Pressure Test Lines	6/15/2021	02:57				3000	Pressure test
13	Pump Spacer	6/15/2021	03:01	8.34	6	20	256	Pumping fresh water spacer, no returns
14	Pump Lead Cement	6/15/2021	03:04	12.3	6	0	404	Pumping lead cement, slurry temp 78 F
15	Pump Lead Cement	6/15/2021	03:11	12.3	6	42	466	Pumping lead cement
16	Pump Tail Cement	6/15/2021	03:11	12.8	6	0	466	Pumping tail cement, Slurry temp 78 F
17	Pump Tail Cement	6/15/2021	03:18	12.8	6	45	418	Pumping tail cement
18	Drop Top Plug	6/15/2021	03:18					Dropped top plug verified by company man
19	Pump Displacement	6/15/2021	03:22	8.34	6	0	440	Pumping fresh water displacement
20	Pump Displacement	6/15/2021	03:29	8.34	10	50	529	Pumping fresh water displacement
21	Pump Displacement	6/15/2021	03:35	8.34	10	100	533	Pumping fresh water displacement
22	Pump Displacement	6/15/2021	03:40	8.34	10	150	528	Pumping fresh water displacement
23	Pump Displacement	6/15/2021	03:45	8.34	10	200	533	Pumping fresh water displacement
24	Pump Displacement	6/15/2021	03:58	8.34	4	282	280	Pumping fresh water displacement
25	Land Plug	6/15/2021	03:58				282	Plug did not land, pumped to 282 BBLs per company man
26	Check Floats	6/15/2021	04:02					Bled pressure, floats held .25 BBL bled back
27	Rig Down Iron	6/15/2021	04:02					Pre rig down safety meeting, rig down cement head and lines on the floor
28	Depart Location	6/15/2021	04:45					Leave location for Rifle shop

Pump Diagrams



JobMaster Program Version 5.01C1
Job Number: 77250
Customer: Terra
Well Name: RG 543-7

