



Terra Energy Partners, LLC

INTERMEDIATE POST JOB REPORT

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

CallSheet #: 77165
Proposal #: 53249



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

District Manager | (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	1423	0
Open Hole	Outer	n/a	12.25	n/a	n/a	1440	3327	50
Casing	Inner	9.625	8.921	36	LTC	0	3317	0

Timing

Event	Date/Time
Call Out	6/6/2021 07:00
Depart Facility	6/6/2021 08:38
On Location	6/6/2021 09:50
Rig Up Iron	6/6/2021 10:00
Job Started	6/6/2021 15:20
Job Completed	6/6/2021 16:18
Rig Down Iron	6/6/2021 16:18
Depart Location	6/6/2021 17:20

Equipment / People

Unit Type	Unit	Power Unit	Employee #1
Cement Trailer	CTF-273	TRB-421	Hampton, John
Light Duty Vehicles	LDV-061		Diaz, Douglas
Cement Pump	CPF-136	TRH-957	Aden, Mark

General Job Information

Metrics	Value
Well Fluid Density	9.1 lb/gal
Well Fluid Type	WBM
Rig Circulation Vol	495 bbls
Rig Circulation Time	0.75 hours
Calculated Displacement	253 bbls
Actual Displacement	253 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	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	Frac Tank	
Temperature	74 °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	2 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	1144
2	Lead Cement	Lead	12.30	2.36	13.32		100.00	42.07	1820
3	Tail Cement	Tail	12.80	2.10	11.34		121.00	45.19	2573
4	Displacement	DisplacementFinal	8.34			42.00		253.00	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	6/6/2021	07:00					Yard call 0700 on location 1000
2	Depart For Location	6/6/2021	08:38					Leave Rifle yard for location
3	Arrive On Location	6/6/2021	09:50					Arrive on location, rig rigging up casing crew
4	Spot Equipment	6/6/2021	09:50					Spot in all equipment
5	Rig Up Iron	6/6/2021	10:00					Pre rig up safety meeting, rig in all equipment and lines to the stand pipe
6	Waiting	6/6/2021	10:45					Waiting on rig to run casing and circulate
7	Safety Meeting	6/6/2021	15:01					Pre job safety meeting with company man and rig crew
8	End Circulation	6/6/2021	15:08					Rig ended circulation, circulated 45 mins @ 11 BBLs/min total of 495 BBLs
9	Waiting	6/6/2021	15:08					Waiting on rig to lay down
10	Rig Up Iron	6/6/2021	15:11					crt
11	Pump Spacer	6/6/2021	15:20	8.34	8	20	510	Pumping fresh water spacer, no returns
12	Pressure Test Lines	6/6/2021	15:23				3000	Pressure test
13	Pump Spacer	6/6/2021	15:26	8.34	8	20	692	Pumping fresh water spacer, no returns
14	Pump Lead Cement	6/6/2021	15:29	12.3	8	0	747	Pumping lead cement, slurry temp 85 F
15	Pump Lead Cement	6/6/2021	15:34	12.3	8	42	704	Pumping lead cement
16	Pump Tail Cement	6/6/2021	15:34	12.8	8	0	704	Pumping tail cement, Slurry temp 83 F
17	Pump Tail Cement	6/6/2021	15:42	12.8	4	45	224	Pumping tail cement
18	Drop Top Plug	6/6/2021	15:42					Dropped top plug verified by company man
19	Pump Displacement	6/6/2021	15:47	8.34	6	0	295	Pumping fresh water displacement
20	Pump Displacement	6/6/2021	15:54	8.34	10	50	642	Pumping fresh water displacement
21	Pump Displacement	6/6/2021	15:59	8.34	10	100	618	Pumping fresh water displacement
22	Pump Displacement	6/6/2021	16:04	8.34	10	150	629	Pumping fresh water displacement
23	Pump Displacement	6/6/2021	16:09	8.34	10	200	831	Pumping fresh water displacement
24	Pump Displacement	6/6/2021	16:15	8.34	3	253	470	Pumping fresh water displacement
25	Land Plug	6/6/2021	16:15				1118	Land plug, FCP 470 PSI bumped to 1118 PSI
26	Check Floats	6/6/2021	16:18					Bled pressure, floats held 1 BBL bled back
27	Rig Down Iron	6/6/2021	16:18					Pre rig down safety meeting, rig down cement head and lines on the floor
28	Clean Pumps and Lines	6/6/2021	16:30					Wash pump and lines to Pit
29	Rig Down Iron	6/6/2021	16:45					Rig down all lines and equipment
30	Depart Location	6/6/2021	17:20					Leave location for Rifle shop

Pump Diagrams



JobMaster Program Version 5.01C1
Job Number: 77165
Customer: Terra
Well Name: RG 344-7

