Terra Energy Partners, LLC
SURFACE POST JOB REPORT

FEDERAL RG 11-18-297 05-103-12486
S:7 T:2S R:97W Rio Blanco CO

CallSheet #: 83059
Proposal #: 62630

SURFACE Post Job Report

Attention: Mr. Jayson Boebert | (970) 274-2569 | jboebert@terraep.com
Terra Energy Partners, LLC
4828 Loop Central Dr., Suite 900 | Houston, TX 77081

Dear Mr. Jayson Boebert,

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,

Holly Mbugua
Field Engineer II | (720) 505-1300 | holly.mbugua@americancementing.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	20	19.5	53	n/a	0	87	0
Open Hole	Outer	n/a	17.5	n/a	n/a	87	1408	30
Casing	Inner	13.375	12.615	54.5	Buttress	0	1398	0

Equipment / People

Unit Type	Unit	Power Unit	Employee #1	Employee #2
Field Storage Float	FSF(CTF)-389			
AS Cement Trailer Float	CTF-558	TRC(TRB)-180	Schweitzer, Casey	
Cement Trailer Float	CTF-161	TRB-421	Lewis, Kevin	Morales, Adrian
Light Duty Vehicles	LDV-083		Putnam, Gage	
Cement Pump Float	CPF-091	TRH-082	Kirchenwitz, Jacob	

Timing

Event	Date/Time
Call Out	8/22/2022 01:30
Depart Facility	8/22/2022 05:15
On Location	8/22/2022 06:45
Rig Up Iron	8/22/2022 07:00
Job Started	8/22/2022 11:49
Job Completed	8/22/2022 14:13
Rig Down Iron	8/22/2022 14:30
Depart Location	8/22/2022 15:30

General Job Information

Metrics	Value
Well Fluid Density	9.2 lb/gal
Well Fluid Type	WBM
Rig Circulation Vol	180 bbls
Rig Circulation Time	0.5 hours
Calculated Displacement	210.4 bbls
Actual Displacement	210.4 bbls
Total Spacer to Surface	20 bbls
Total CMT to Surface	70 bbls
Well Topped Out	No

Job Details

Metrics	Value
Flare Prior to Job	No
Flare Prior to Job	0 units
Flare During Job	No
Flare During Job	0 units
Flare at End of Job	No
Flare at End of Job	0 units
Well Full Prior to Job	Yes
Well Fluid Density Into Well	9.2 lb/gal
Well Fluid Density Out of Well	9.2 lb/gal

Job Details (cont.)

Metrics	Value
BHCT	73 °F
BHST	89 °F

Water Analysis

Metrics	Value	Recommended
Water Source	Flat Tank	
Temperature	72 °F	50-80 °F
pH Level	7	5.5-8.5
Chlorides	72 mg/L	0-3000 mg/L
Total Alkalinity	120	0-1000
Total Hardness	80 mg/L	0-500 mg/L
Carbonates	NA mg/L	0-100 mg/L
Sulfates	200 mg/L	0-1500 mg/L
Potassium	450 mg/L	0-3000 mg/L
Iron	0 mg/L	0-300 mg/L

Circulation

Lost Circulation Experienced
No

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		20.00	0
2	Primary Cement	Primary	12.30	2.34	13.42		553.00	230.33	0
3	Water	DisplacementFinal	8.34			42.00		210.40	0

Job Fluid Details

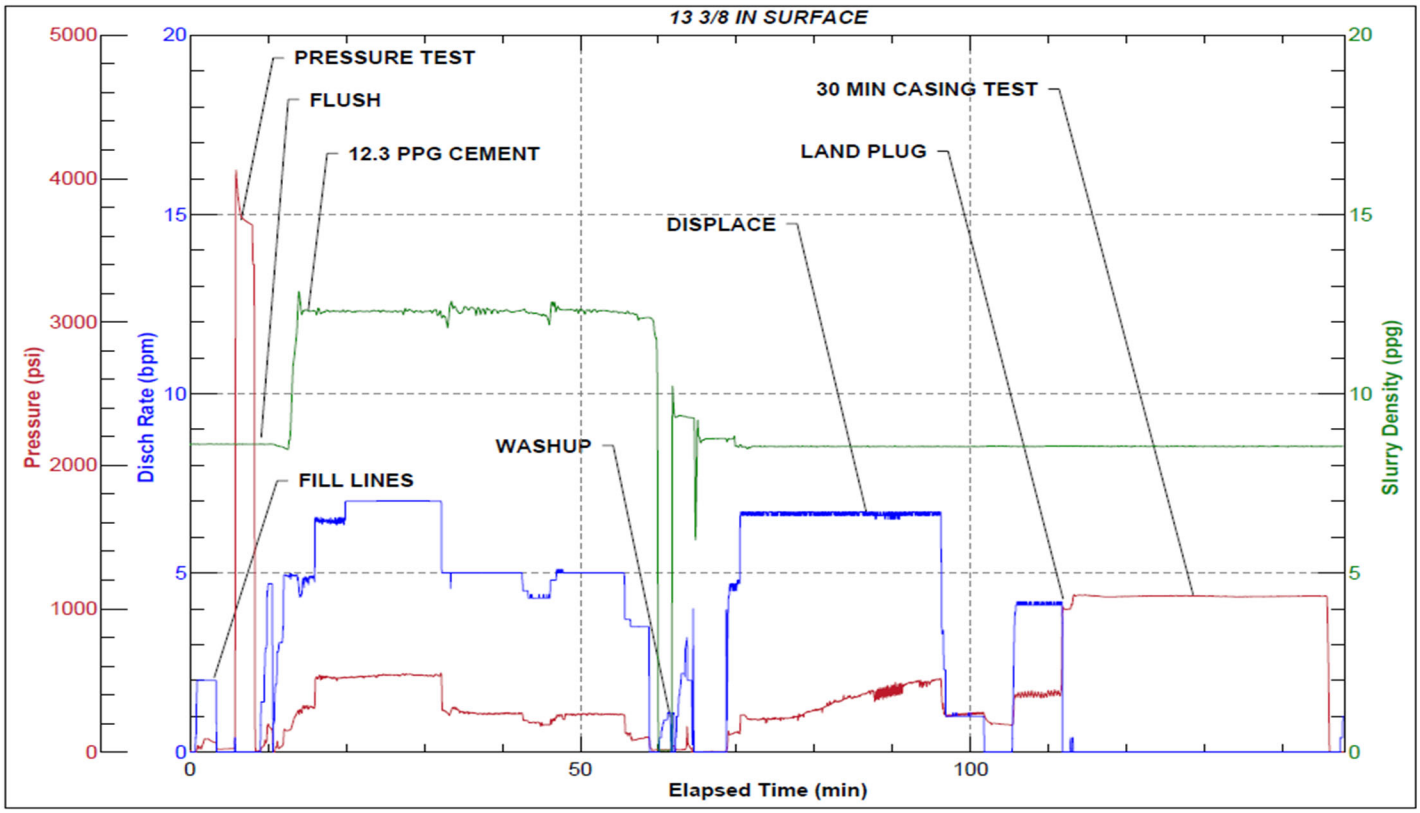
Fluid	Type	Fluid	Product	Function	Conc.	Uom
2	Primary	Primary Cement	ASTM TYPE I/II	Cement	100.00	%
2	Primary	Primary Cement	A-10	Accelerator	5.00	%BWOB
2	Primary	Primary Cement	A-2	Accelerator	2.00	lb/sk
2	Primary	Primary Cement	A-7P	Accelerator	2.00	lb/sk
2	Primary	Primary Cement	FP-24	Defoamer	0.30	%BWOB
2	Primary	Primary Cement	IntegraSeal POLI	LostCirculation	0.25	lb/sk
2	Primary	Primary Cement	STATIC FREE	Other	0.01	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	8/22/2022	01:30					CREW CALLED OUT FOR ON LOCATION TIME OF 8:30 8/22/22
2	Depart Location	8/22/2022	05:15					CREW DEPARTS RCO YARD FOR RIG LOCATION
3	Arrive On Location	8/22/2022	06:45					CREW ARRIVES ON LOCATION
4	Rig Up Iron	8/22/2022	07:00					RIG UP IRON AND HOSES
5	Waiting	8/22/2022	08:30					WAITING FOR RIG TO RUN CASING
6	Safety Meeting	8/22/2022	11:30					JSA SAFETY MEETING WITH AC AND CUSTOMER REP
7	Fill Lines	8/22/2022	11:49	8.34	2	5	38	FILL LINES WITH 5 BBLS FRESH WATER
8	Pressure Test Lines	8/22/2022	11:54				3700	PRESSURE TEST PUMP AND LINES TO 3000 PSI
9	Other	8/22/2022	11:58	8.34	5	15	288	PUMP 15 BBLS FRESH WATER FLUSH
10	Pump Cement	8/22/2022	12:01	12.3	5	0	315	BEGIN PUMPING 12.3 PPG PRIMARY CEMENT, DENSITY VERIFIED BY MUD SCALE.
11	Pump Cement	8/22/2022	12:10	12.3	7	50	518	50 BBLS CEMENT PUMPED
12	Pump Cement	8/22/2022	12:17	12.3	7	50	359	100 BBLS CEMENT PUMPED
13	Pump Cement	8/22/2022	12:26	12.3	5	50	256	150 BBLS CEMENT PUMPED
14	Pump Cement	8/22/2022	12:36	12.3	5	50	340	200 BBLS CEMENT PUMPED
15	Pump Cement	8/22/2022	12:47	12.3	4	30	131	230 BBLS CEMENT PUMPED
16	Other	8/22/2022	12:47	12.3	2	5	20	TOP OUT FED RG 311-18-297 WITH 1 BBL OF CEMENT, FED RG 511-18-297 WITH 2 BBLS OF CEMENT, AND FED RG 12-18-297 WITH 2 BBLS OF CEMENT WHILE PUMPING CEMENT JOB
17	Clean Pumps and Lines	8/22/2022	12:47					WASH UP PUMP, WASHED UP ON PLUG
18	Drop Top Plug	8/22/2022	12:57	8.34	4.5	0	127	DROP PLUG, WITNESSED BY CUSTOMER REP. BEGIN DISPLACEMENT
19	Pump Displacement	8/22/2022	13:05	8.34	6.6	50	244	50 BBLS FRESH WATER DISPLACEMENT PUMPED
20	Pump Displacement	8/22/2022	13:12	8.34	6.6	50	382	100 BBLS FRESH WATER DISPLACEMENT PUMPED
21	Pump Displacement	8/22/2022	13:20	8.34	6.6	50	487	150 BBLS FRESH WATER DISPLACEMENT PUMPED, CEMENT TO SURFACE AT 140 BBLS DISPLACEMENT PUMPED. 70 BBLS CEMENT TO SURFACE
22	Pump Displacement	8/22/2022	13:36	8.34	4	50	394	200 BBLS FRESH WATER DISPLACEMENT PUMPED, HAD TO SHUT DOWN AT 190 BBLS DUE TO WATER SUPPLY ISSUE
23	Pump Displacement	8/22/2022	13:38	8.34	4	10	411	210.4 BBLS FRESH WATER DISPLACEMENT PUMPED
24	Land Plug	8/22/2022	13:38				1092	PLUG LANDED. FCP - 411 PSI, BUMPED TO 1092 PSI
25	Test Casing	8/22/2022	13:39				1100	HOLD 1100 PSI ON CASING FOR 30 MIN. CASING PRESSURE HELD AT 1100 PSI
26	Check Floats	8/22/2022	14:13					CHECK FLOATS, FLOATS HELD, 1 BBL BACK
27	Rig Down Iron	8/22/2022	14:30					RIG DOWN IRON AND HOSES
28	Depart Location	8/22/2022	15:30					AC CREW DEPARTS LOCATION

Pump Diagrams

JobMaster Program Version 5.01C1
Job Number: 83059
Customer: Terra
Well Name: Federal RD 11-18-297



Job Start: Monday, August 22, 2022