Terra Energy Partners, LLC
SURFACE POST JOB REPORT

WMC 33-19-793 05-045-24546
S:19 T:7S R:93W Garfield CO

CallSheet #: 86629
Proposal #: 68330

SURFACE Post Job Report

Attention: Mr. Dustin Childers | (936) 524-8828 | dchilders@terraep.com
Terra Energy Partners, LLC
4828 Loop Central Dr., Suite 900 | Houston, TX 77081

Dear Mr. Dustin Childers,

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,

Krystal Schell
Field Engineer I | (719) 992-1830 | krystal.schell@americancementing.com

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

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	80	0
Open Hole	Outer	n/a	13.5	n/a	n/a	80	500	16
Open Hole	Outer	n/a	13.5	n/a	n/a	500	1140	16
Casing	Inner	9.625	8.921	36	n/a	0	1140	0

Equipment / People

Unit Type	Unit	Power Unit	Employee #1	Employee #2
Cement Trailer Float	CTF-385	TRC-188	Lujan, James	
Cement Pump Float	CPF-053	TRH-959	Gonzales, Ivan	
Light Duty Vehicles	LDV-061		Woronovitch, Collin	McClure, Gerron

Timing

Event	Date/Time
ERTS	00/19/2023 00:00
Call Out	4/19/2023 04:40
Depart Facility	4/19/2023 09:00
On Location	4/19/2023 10:40
Rig Up Iron	4/19/2023 11:00
Job Started	4/19/2023 14:50
Job Completed	4/19/2023 16:14
Rig Down Iron	4/19/2023 16:20
Depart Location	4/19/2023 17:00

General Job Information

Metrics	Value
Well Fluid Density	9.1 lb/gal
Well Fluid Type	WBM
Rig Circulation Vol	320 bbls
Rig Circulation Time	0.5 hours
Calculated Displacement	85 bbls
Actual Displacement	85 bbls
Total Spacer to Surface	20 bbls
Total CMT to Surface	35 bbls
Well Topped Out	N/A

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	9.1 lb/gal
Well Fluid Density Out of Well	9.1 lb/gal

Job Details (cont.)

Metrics	Value
BHCT	81 °F
BHST	99 °F

Water Analysis

Metrics	Value	Recommended
Water Source	Upright Rig Tank	
Temperature	70 °F	50-80 °F
pH Level	7	5.5-8.5
Chlorides	400 mg/L	0-3000 mg/L
Total Alkalinity	200	0-1000
Total Hardness	120 mg/L	0-500 mg/L
Carbonates	NA mg/L	0-100 mg/L
Sulfates	240 mg/L	0-1500 mg/L
Potassium	260 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	Lead	Lead	12.30	2.21	12.72		165.00	65.04	0
3	Tail	Tail	12.80	1.97	10.87		193.00	67.55	500
4	Water	DisplacementFinal	8.34			42.00		85.00	0

Job Fluid Details

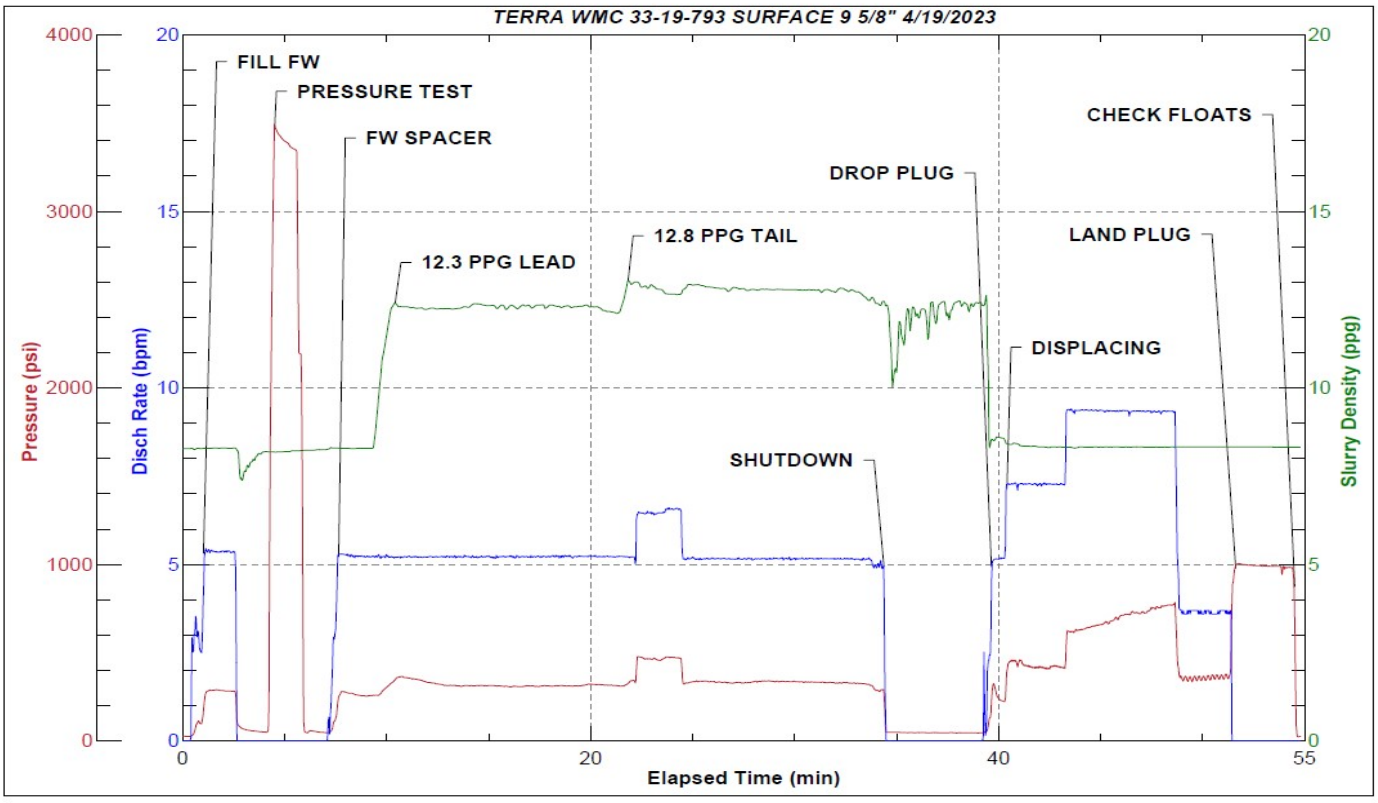
Fluid	Type	Fluid	Product	Function	Conc.	Uom
2	Lead	Lead	ASTM TYPE I/II	Cement	100.00	%
2	Lead	Lead	A-7P	Accelerator	2.00	lb/sk
2	Lead	Lead	ATHX-1102	Thixotropic	1.00	lb/sk
2	Lead	Lead	FP-24	Defoamer	0.30	%BWOB
2	Lead	Lead	IntegraSeal POLI	LostCirculation	0.25	lb/sk
2	Lead	Lead	STATIC FREE	Other	0.01	lb/sk
3	Tail	Tail	ASTM TYPE I/II	Cement	100.00	%
3	Tail	Tail	A-7P	Accelerator	2.00	lb/sk
3	Tail	Tail	ATHX-1102	Thixotropic	1.00	lb/sk
3	Tail	Tail	FP-24	Defoamer	0.30	%BWOB
3	Tail	Tail	IntegraSeal POLI	LostCirculation	0.25	lb/sk
3	Tail	Tail	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	4/19/2023	04:40					CREW CALLED OUT FOR LOCATION TIME OF 11:00
2	Depart Location	4/19/2023	09:00					CREW DEPARTS RCO YARD FOR RIG LOCATION
3	Arrive On Location	4/19/2023	10:40					CREW AND EQUIPMENT ARRIVED ON LOCATION. RIG IS RIGGING UP CASING CREW
4	Rig Up Iron	4/19/2023	11:00					PRE-RIG UP MEETING / RIG UP IRON HOSES AND EQUIPMENT. ON STANDBY WAITING FOR CASING TO FINISH BEING RAN. CASING LANDED @ 14:00 RIG CIRCULATED .5 HOUR 320 BBLS
5	Safety Meeting	4/19/2023	14:50					PRE JOB SAFTEY-MEETING WITH RIG CREW AND COMPANY MAN. FINISH RIGGING UP HEAD AND FLOOR AFTER SAFETY MEETING.
6	Fill Lines	4/19/2023	15:21	8.34	5	10	282	FILL LINES WITH 10 BBLS OF FRESH WATER
7	Pressure Test Lines	4/19/2023	15:23	8.34			3440	PRESSURE TEST PUMP AND LINES TO 3000 PSI
8	Other	4/19/2023	15:27	8.34	5	10	256	PUMP 10 BBLS FRESH WATER SPACER FULL RETURNS
9	Pump Lead Cement	4/19/2023	15:29	12.3	5.2	0	301	BEGIN PUMPING 12.3 PPG LEAD CEMENT, WEIGHT VERIFIED BY MUD SCALE
10	Pump Lead Cement	4/19/2023	15:34	12.3	5.2	30	313	30 BBLS LEAD CEMENT PUMPED
11	Pump Lead Cement	4/19/2023	15:41	12.3	5.2	35	311	65 BBLS (165 SKS) LEAD CEMENT PUMPED FULL RETURNS
12	Pump Tail Cement	4/19/2023	15:41	12.8	5.2	0	322	BEGIN PUMPING 12.8 PPG TAIL CEMENT, WEIGHT VERIFIED BY MUD SCALE
13	Pump Tail Cement	4/19/2023	15:57	12.8	5.2	30	341	30 BBLS TAIL CEMENT PUMPED
14	Pump Tail Cement	4/19/2023	15:54	12.8	5	38	358	68 BBLS (193 SKS) TAIL CEMENT PUMPED FULL RETURNS.
15	Drop Top Plug	4/19/2023	15:58	8.34	5	0	326	DROP PLUG, WITNESSED BY COMPANY MAN. BEGIN PUMPING FRESH WATER DISPLACEMENT, FULL RETURNS
16	Pump Displacement	4/19/2023	16:02	8.34	7	20	550	20 BBLS DISPLACEMENT PUMPED, CAUGHT PLUG @ 10 BBLS DISPLACED. SPACER BACK @ 30 BBLS FULL RETURNS
17	Pump Displacement	4/19/2023	16:05	8.34	9	30	750	50 BBLS DISPLACEMENT PUMPED. CEMENT TO SURFACE @ 50 BBLS PUMPED, 35 BBLS TOTAL CEMENT TO SURFACE. MAX LIFT-750 PSI @ 9 BPM
18	Pump Displacement	4/19/2023	16:11	8.34	3.7	38	370	88 BBLS (CALCULATED) TOTAL DISPLACEMENT PUMPED
19	Land Plug	4/19/2023	16:11	8.34			1005	PLUG LANDED. FCP-370 PSI BUMP TO-1005 PSI
20	Check Floats	4/19/2023	16:14					BLEED OFF PRESSURE-CHECK FLOATS, FLOATS HELD .5 BBLS BACK
21	Rig Down Iron	4/19/2023	16:20					PRE-RIG DOWN SAFETY MEETING, PICKLE, BLOW DOWN IRON, RIG DOWN EQUIPMENT, IRON AND HOSES
22	Depart Location	4/19/2023	17:00					CREW DEPARTS LOCATION FOR RCO YARD

Pump Diagrams

JobMaster Program Version 5.01C1
Job Number: 86629
Customer: TERRA
Well Name: FEDERAL WMC 33-19-793



Job Start: Wednesday, April 19, 2023