



Terra Energy Partners, LLC

SURFACE POST JOB REPORT

Leverich WMC 514-18-793 05-045-24559
S:13 T:7S R:94W Garfield CO

CallSheet #: 88443
Proposal #: 71285



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,

Lyndon Chandarjit

Field Engineer II | (281) 690-3840 | lyndon.chandarjit@americacementing.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	1179	16
Casing	Inner	9.625	8.921	36	n/a	0	1179	0

Equipment / People

Unit Type	Unit	Power Unit	Employee #1
Cement Trailer Float	CTF-007	TRC-054	Michael Hutchinson
Cement Pump Float	CPF-012	TRH-677	Shawn Brady
Light Duty Vehicles	LDV-083		Stephen Lancaster

Timing

Event	Date/Time
ERTS	09/07/2023 00:00
Call Out	9/9/2023 04:00
Depart Facility	9/9/2023 04:35
On Location	9/9/2023 05:19
Rig Up Iron	9/9/2023 05:25
Job Started	9/9/2023 08:50
Job Completed	9/9/2023 10:23
Rig Down Iron	9/9/2023 10:24
Depart Location	9/9/2023 11:03

General Job Information

Metrics	Value
Well Fluid Density	9 lb/gal
Well Fluid Type	WBM
Rig Circulation Vol	473 bbls
Rig Circulation Time	1 hours
Calculated Displacement	88 bbls
Actual Displacement	88 bbls
Total Spacer to Surface	10 bbls
Total CMT to Surface	46 bbls
Well Topped Out	N/A

Job Details

Metrics	Value
Well Full Prior to Job	Yes
Well Fluid Density Into Well	9 lb/gal
Well Fluid Density Out of Well	9 lb/gal

Job Details (cont.)

Metrics	Value
BHCT	81 °F
BHST	99 °F

Water Analysis

Metrics	Value	Recommended
Water Source	None	
Temperature	68 °F	50-80 °F
pH Level	7	5.5-8.5
Chlorides	0 mg/L	0-3000 mg/L
Total Alkalinity	180	0-1000
Total Hardness	400 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
No			

Job Execution Information

Fluid	Product	Function	Density (lb/gal)	Yield (ft ³ /sk)	Water Rq. (gal/sk)	Water Rq. (gal/bbl)	Volume (sk)	Volume (bbl)	Designed Top (ft)
1	Water	Flush	8.34			42.00		20.00	0
2	Lead	Lead	12.30	2.31	13.15		158.00	64.94	0
3	Tail	Tail	12.80	2.03	11.15		186.00	67.35	500
4	Water	DisplacementFinal	8.34			42.00		85.00	0

Job Fluid Details

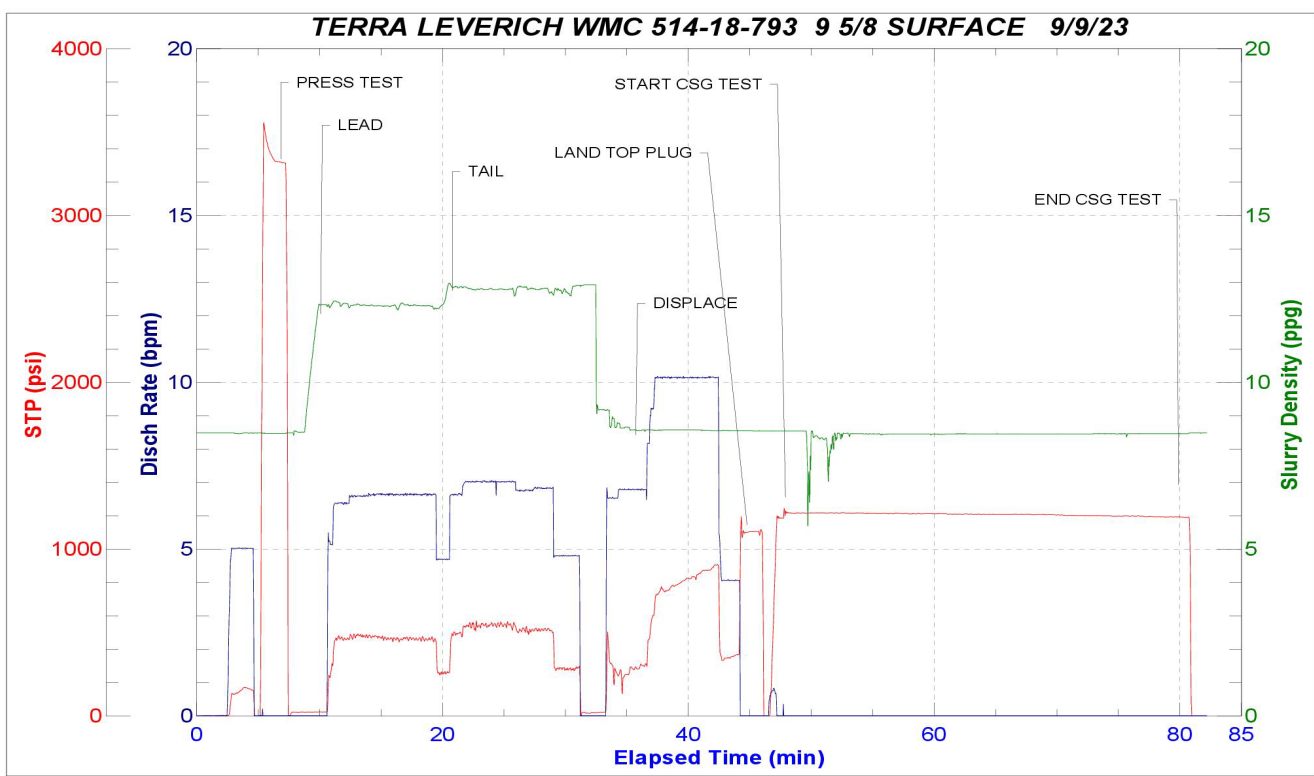
Fluid	Type	Fluid	Product	Function	Conc.	Uom
2	Lead	Lead	ASTM TYPE IL	Cement	100.00	%
2	Lead	Lead	A-10	Accelerator	5.00	%BWOB
2	Lead	Lead	A-2	Accelerator	3.00	lb/sk
2	Lead	Lead	A-7P	Accelerator	2.00	lb/sk
2	Lead	Lead	FP-24	Defoamer	0.30	%BWOB
2	Lead	Lead	IntegraSeal POLI	LostCirculation	0.25	lb/sk
2	Lead	Lead	STATIC FREE	Other	0.01	lb/sk
3	Tail	Tail	ASTM TYPE IL	Cement	100.00	%
3	Tail	Tail	A-10	Accelerator	5.00	%BWOB
3	Tail	Tail	A-2	Accelerator	2.00	lb/sk
3	Tail	Tail	A-7P	Accelerator	2.00	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	9/9/2023	04:00					CREW CALLED OUT FOR ON LOCATION TIME OF 06:00 9/9/2023
2	Depart RCO	9/9/2023	04:35					CREW DEPARTS FOR RIG LOCATION
3	Arrive On Location	9/9/2023	05:19					CREW ARRIVES ON LOCATION
4	Rig Up Iron	9/9/2023	05:25					RIG UP IRON AND HOSES, DONE AND WAITING ON RIG TO RUN CASING 6:26
5	Safety Meeting	9/9/2023	08:50					JSA SAFETY MEETING WITH AC, RIG CREW, AND CUSTOMER REP
6	Fill Lines	9/9/2023	09:04	8.34	4	10	191	FILL LINES WITH 10 BBLs FRESH WATER
7	Pressure Test Lines	9/9/2023	09:06				3200	PRESSURE TEST PUMP AND LINES TO 3000 PSI
8	Other	9/9/2023	09:11	12.3				WEIGHTING UP CEMENT
9	Pump Lead Cement	9/9/2023	09:12	12.3	5.5	5		BEGIN PUMPING 12.3 PPG LEAD CEMENT, DENSITY VERIFIED BY MUD SCALE.
10	Pump Lead Cement	9/9/2023	09:16	12.3	5.5	20	421	20 BBLs LEAD PUMPED (full returns)
11	Pump Lead Cement	9/9/2023	09:19	12.3	5.7	40	454	40 BBLs LEAD PUMPED
12	Pump Lead Cement	9/9/2023	09:21	12.3	5.5	60	473	60 BBLs LEAD PUMPED
13	Pump Lead Cement	9/9/2023	09:22	12.3	7	65	463	65 BBLs LEAD PUMPED , SWAP TO TAIL
14	Pump Tail Cement	9/9/2023	09:23	12.8	7	5	471	5 BBLs TAIL 12.8 PPG PUMPED , DENSITY VERIFIED BY MUDSCALE
15	Pump Tail Cement	9/9/2023	09:25	12.8	7	20	510	20 BBLs TAIL PUMPED (full returns)
16	Pump Tail Cement	9/9/2023	09:29	12.8	7	40	528	40 BBLs TAIL PUMPED
17	Pump Tail Cement	9/9/2023	09:32	12.8	4.8	60	273	60 BBBLs TAIL PUMPED
18	Pump Tail Cement	9/9/2023	09:34	12.8	4.8	67	282	67 BBBLs TAIL PUMPED
19	Drop Plug	9/9/2023	09:35					DROP PLUG WASH ON TOP OF PLUG
20	Pump Displacement	9/9/2023	09:36	8.34	6.7	10	300	10 BBLs DISPLACEMENT PUMPED (full returns)
21	Pump Displacement	9/9/2023	09:38	8.34	6.7	30	410	30 BBLs DISPLACEMENT PUMPED
22	Pump Displacement	9/9/2023	09:41	8.34	10	50	820	50 BBLs DISPLACEMENT PUMPED
23	Pump Displacement	9/9/2023	09:43	8.34	10	70	882	70 BBLs DISPLACEMENT PUMPED (cement back @ 42 bbls displaced) 46 BBLs CEMENT TO SURFACE
24	Pump Displacement	9/9/2023	09:46	8.34	4	88	370	86 BBLs DIPLACEMENT PUMPED FCP 370
25	Land Plug	9/9/2023	09:46	8.34	4	88	1080	LAND PLUG FINAL BUMP PRESS 1080
26	Check Floats	9/9/2023	09:49					BLEED OFF CHECK FLOATS .5 BBLs BACK
27	Casing Test	9/9/2023	09:51	8.34	2	1	1219	START CSG TEST 1219 PSI
28	End Casing Test	9/9/2023	10:23					BLEED OFF CASING TEST FINAL PRESS 1194 GOT .5 BBLs BACK
29	Rig Down Iron	9/9/2023	10:24					RIG DOWN IRON AND HOSES
30	Depart Location	9/9/2023	11:03					DEPART LOCATION FOR RCO

Pump Diagrams

JobMaster Program Version 5.01C1
Job Number: 88443
Customer: TERRA
Well Name: LEVERICH WMC 514-18-793



Job Start: Saturday, September 09, 2023