



Terra Energy Partners, LLC

SURFACE POST JOB REPORT

Leverich SR 24-13 05-045-24563
S:13 T:7S R:94W Garfield CO

CallSheet #: 87410
Proposal #: 69699



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@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	1185	16
Casing	Inner	9.625	8.921	36	n/a	0	1175	0

Equipment / People

Unit Type	Unit	Power Unit	Employee #1
Cement Trailer Float	CTF-280	TRC-115	Wall, Lynn
Cement Pump Float	CPF-011	TRH-1140	Kirchenwitz, Jacob
Light Duty Vehicles	LDV-045		McClure, Gerron

Timing

Event	Date/Time
ERTS	00/13/2023 00:00
Call Out	6/12/2023 16:00
Depart Facility	6/12/2023 22:00
On Location	6/12/2023 22:30
Rig Up Iron	6/12/2023 23:00
Job Started	6/13/2023 01:10
Job Completed	6/13/2023 02:03
Rig Down Iron	6/13/2023 03:00
Depart Location	6/13/2023 04:00

General Job Information

Metrics	Value
Well Fluid Density	9.6 lb/gal
Well Fluid Type	OBM
Rig Circulation Vol	103 bbls
Rig Circulation Time	0.5 hours
Calculated Displacement	87.2 bbls
Actual Displacement	87 bbls
Total Spacer to Surface	20 bbls
Total CMT to Surface	25 bbls
Well Topped Out	N/A
Top Out Volume	N/A bbls

Job Details

Metrics	Value
Flare Prior to Job	NO
Flare Prior to Job	N/A units
Flare During Job	NO
Flare During Job	N/A units
Flare at End of Job	NO
Flare at End of Job	N/A units
Well Full Prior to Job	YES
Well Fluid Density Into Well	9.6 lb/gal
Well Fluid Density Out of Well	9.6 lb/gal

Job Details (cont.)

Metrics	Value
BHCT	81 °F
BHST	99 °F

Water Analysis

Metrics	Value	Recommended
Water Source	Upright Rig Tank	
Temperature	68 °F	50-80 °F
pH Level	6	5.5-8.5
Chlorides	500 mg/L	0-3000 mg/L
Total Alkalinity	N/A	0-1000
Total Hardness	N/A mg/L	0-500 mg/L
Carbonates	N/A mg/L	0-100 mg/L
Sulfates	200 mg/L	0-1500 mg/L
Potassium	N/A mg/L	0-3000 mg/L
Iron	N/A 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	2.31	13.15		158.00	64.94	0
3	Tail	Tail	12.80	2.03	11.15		188.00	68.07	500
4	Water	DisplacementFinal	8.34			42.00		87.20	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	ARRIVED ON LOCATION	6/12/2023	22:30					ARRIVED ON LOCATION
2	HAZARD ASSESMENT	6/12/2023	22:35					
3	PRE RIG UP SAFETY MEETING	6/12/2023	22:45					
4	RIGGED UP	6/12/2023	23:00					
5	PRE JOB SAFETY MEETING	6/13/2023	00:30					
6	STAB HEAD	6/13/2023	00:45					
7	START JOB	6/13/2023	01:10					START JOB
8	PRESSURE TEST 2000 PSI	6/13/2023	01:12	8.34	1	1	2200	PRESSURE TEST LINES 2000 PSI
9	20 BBL FW SPACER	6/13/2023	01:13	8.34	5	20	491	20 BBL FRESH WATER DISPLACEMENT
10	65 BBL LEAD CEMENT @12.3	6/13/2023	01:16	12.3	5	1	533	START LEAD CEMENT @ 12.3 (2.31,13.15) 188 SKS TOC - SURFACE
11	50 GONE LEAD	6/13/2023	01:24	12.3	6	50	515	
12	END OF LEAD	6/13/2023	01:29	12.3	5	65	366	END OF LEAD
13	68 BBL TAIL @ 12.8	6/13/2023	01:30	12.8	5	1	368	START 158 SKS TAIL @ 12.8
14	50 BBL GONE TAIL	6/13/2023	01:37	12.8	5	50	501	
15	END OF TAIL	6/13/2023	01:42	12.8	3	68	193	END OF TAIL CEMENT
16	SHUTDOWN/ DROP PLUG	6/13/2023	01:43					
17	START 87.2 BBL FW DISPLACE	6/13/2023	01:45	8.34	3	1	97	START 87.2 BBL FRESH WATER DISPLACEMENT
18	CAUGHT CEMENT	6/13/2023	01:47	8.34	7	23	417	CAUGHT CEMENT @ 23 BBLS GONE
19	50 BBL GONE DISPLACEMENT	6/13/2023	01:51	8.34	7	50	432	
20	PRESSURE BEFORE SLOW RATE	6/13/2023	02:00	8.34	7	77	587	PRESSURE BEFORE SLOWING RATE 587
21	SLOW RATE PRESSURE	6/13/2023	02:00	8.34	3	77	434	SLOW RATE 4 BPM - 434
22	PRESSURE BEFORE LAND PLUG	6/13/2023	02:03	8.34	3	87	489	FINAL LIFT PRESSURE BEFORE LAND - 489
23	LAND PLUG	6/13/2023	02:03	8.34	3	87	1135	BUMPED PLUG @ 1135
24	CHECK FLOAT	6/13/2023	02:08					RETURNED 0.5 BBL BACK UPON FLOAT CHECK
25	END OF SERVICES	6/13/2023	02:08					END OF CEMENTING APPLICATION
26	POST JOB/ PRE RIG DOWN	6/13/2023	02:15					
27	RIGGED DOWN	6/13/2023	03:00					
28	PRE CONVOY SAFETY MEETING	6/13/2023	03:30					
29	DEPART LOCATION	6/13/2023	04:00					
30	END OF JOB	6/13/2023	04:00					CIRCULATED 35 BBLS OR 97 SKS of CEMENT TO PIT

Pump Diagrams

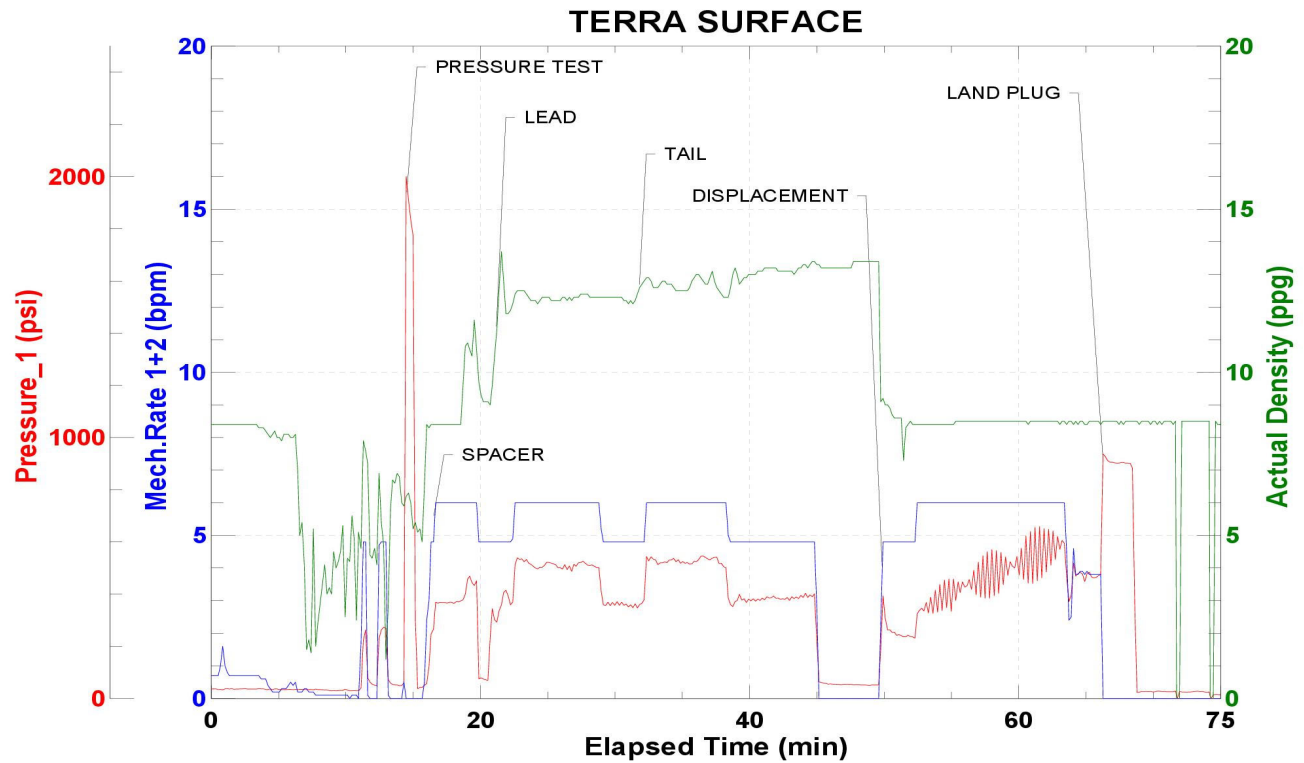


JobMaster Program Version 5.01C1

Job Number: 87410

Customer: TERRA

Well Name: LEVERICH SR-24-13



BJ Services

Job Start: Tuesday, June 13, 2023