



Terra Energy Partners, LLC

LONG STRING POST JOB REPORT

Leverich SR 424-13 05-045-24574
S:13 T:7S R:94W Garfield CO

CallSheet #: 87315
Proposal #: 69401



LONG STRING 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	9.625	8.921	36	n/a	0	1173	0
Open Hole	Outer	n/a	8.75	n/a	n/a	1173	7384	85
Open Hole	Outer	n/a	8.75	n/a	n/a	7384	10568	50
Casing	Inner	4.5	4	11.6	n/a	0	10568	0

Equipment / People

Unit Type	Unit	Power Unit	Employee #1
Field Storage Silo	FSS-470		
Field Storage Silo	FSS-438		
Cement Trailer Float	CTF-161	TRC-059	Burton, Devin
Cement Pump Float	CPF-012	TRH-677	Brady, Shawn
Light Duty Vehicles	LDV-063		Castillo, Francisco

Timing

Event	Date/Time
ERTS	00/06/2023 00:00
Call Out	6/6/2023 21:00
Depart Facility	6/6/2023 21:55
On Location	6/6/2023 22:35
Rig Up Iron	6/6/2023 22:55
Job Started	6/7/2023 07:20
Job Completed	6/7/2023 09:16
Rig Down Iron	6/7/2023 09:30
Depart Location	6/7/2023 10:30

General Job Information

Metrics	Value
Well Fluid Density	9.4 lb/gal
Well Fluid Type	WBM
Rig Circulation Vol	600 bbls
Rig Circulation Time	1 hours
Calculated Displacement	163 bbls
Actual Displacement	163 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 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	9.4 lb/gal
Well Fluid Density Out of Well	9.4 lb/gal

Job Details (cont.)

Metrics	Value
BHCT	172 °F
BHST	229 °F

Water Analysis

Metrics	Value	Recommended
Water Source	Upright Rig Tank	
Temperature	71 °F	50-80 °F
pH Level	7	5.5-8.5
Chlorides	0 mg/L	0-3000 mg/L
Total Alkalinity	250	0-1000
Total Hardness	250 mg/L	0-500 mg/L
Carbonates	0 mg/L	0-100 mg/L
Sulfates	200 mg/L	0-1500 mg/L
Potassium	250 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		10.00	5604
2	Mud Flush	Flush	8.45			40.86		20.00	5703
3	Water	Flush	8.34			42.00		10.00	5901
4	Lead	Lead	12.50	2.21	12.30		357.00	140.39	6000
5	Tail	Tail	13.00	2.05	10.26		772.00	281.58	7384
6	Displacement	DisplacementFinal	8.34			42.00		163.00	0

Job Fluid Details

Fluid	Type	Fluid	Product	Function	Conc.	Uom
2	Flush	Mud Flush	SAPP	Surfactant	10.00	lb/bbl
2	Flush	Mud Flush	SS-201	Surfactant	0.50	gal/bbl
4	Lead	Lead	ASTM TYPE IL	Cement	100.00	%
4	Lead	Lead	A-2	Accelerator	0.20	%BWOB
4	Lead	Lead	FL-66	FluidLoss	0.30	%BWOB
4	Lead	Lead	FP-24	Defoamer	0.30	%BWOB
4	Lead	Lead	GW-86	Viscosifier	0.10	%BWOB
4	Lead	Lead	R-3	Retarder	0.50	%BWOB
4	Lead	Lead	R-7C	Retarder	0.10	%BWOB
4	Lead	Lead	STATIC FREE	Other	0.01	lb/sk
4	Lead	Lead	XCem-1009	Extender	10.00	lb/sk
5	Tail	Tail	CLASS G	Cement	50.00	%
5	Tail	Tail	FLY ASH (POZZOLAN)	Extender	50.00	%
5	Tail	Tail	BENTONITE	Viscosifier	6.00	%BWOB
5	Tail	Tail	FL-66	FluidLoss	0.40	%BWOB
5	Tail	Tail	FP-24	Defoamer	0.30	%BWOB
5	Tail	Tail	GW-86	Viscosifier	0.10	%BWOB
5	Tail	Tail	IntegraSeal PHENO	LostCirculation	0.50	lb/sk
5	Tail	Tail	IntegraSeal POLI	LostCirculation	0.25	lb/sk
5	Tail	Tail	S-8	StrengthRetgression	20.00	%BWOB
5	Tail	Tail	XCem-1009	Extender	6.00	lb/sk
5	Tail	Tail	XCem-916	Retarder	0.40	%BWOB

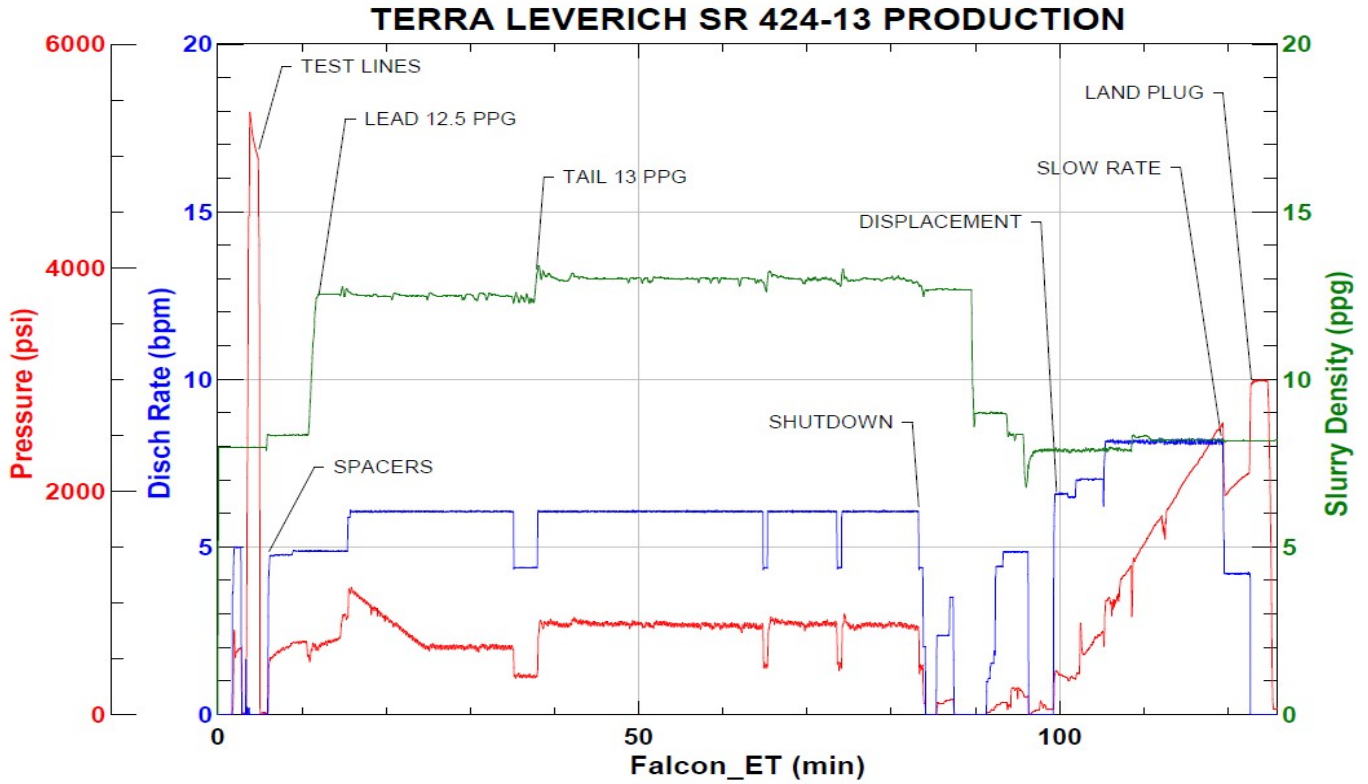
Job Logs

Line	Event	Date (MM/DD/YY)	Time (HH:MM)	Density (lb/gal)	Pump Rate (bpm)	Pump Volume (bbls)	Pipe Pressure (psi)	Comment
1	CALLOUT	6/6/2023	21:00					ON LOCATION AT 04:00 HRS
2	LEAVE THE YARD	6/6/2023	21:55					CREW LEAVES THE YARD
3	ON LOCATION	6/6/2023	22:35					ON LOCATION
4	RIG UP	6/6/2023	22:55					RIG UP MEETING, RIG UP
5	SAFETY MEETING	6/7/2023	06:45					PRE-JOB SAFETY MEETING
6	PRESSURE TEST	6/7/2023	07:15				5391	PRESSURE TEST LINES
7	WATER SPACER	6/7/2023	07:20	8.34	5	10	567	WATER SPACER
8	MUD FLUSH	6/7/2023	07:22	9	5	20	629	MUD FLUSH SPACER
9	WATER SPACER	6/7/2023	07:27	8.34	5	10	731	WATER SPACER
10	LEAD CEMENT	6/7/2023	07:29	12.5	6	70	715	LEAD 357 SKS/140 BBLs AT 12.5 PPG
11	LEAD CEMENT	6/7/2023	07:37	12.5	6	70	601	140 BBLs LEAD CEMENT PUMPED
12	TAIL CEMENT	6/7/2023	07:52	13	6	50	829	TAIL 772 SKS/282 BBLs AT 13 PPG
13	TAIL CEMENT	6/7/2023	08:00	13	6	50	813	100 BBLs TAIL CEMENT PUMPED
14	TAIL CEMENT	6/7/2023	08:09	13	6	50	823	150 BBLs TAIL CEMENT PUMPED
15	TAIL CEMENT	6/7/2023	08:17	13	6	50	817	200 BBLs TAIL CEMENT PUMPED
16	TAIL CEMENT	6/7/2023	08:25	13	6	82	783	282 BBLs TAIL CEMENT PUMPED
17	SHUTDOWN	6/7/2023	08:41					WASH PUMP AND LINES, DROP PLUG
18	DISPLACEMENT	6/7/2023	08:53	8.4	8	50	1023	DISPLACEMENT KCL WATER
19	DISPLACEMENT	6/7/2023	09:00	8.4	8	50	1883	100 BBLs DISPLACEMENT PUMPED
20	DISPLACEMENT	6/7/2023	09:07	8.4	8	53	2575	153 BBLs DISPLACEMENT PUMPED
21	SLOW RATE	6/7/2023	09:13	8.4	4	10	2163	SLOW RATE
22	LAND PLUG	6/7/2023	09:16				3000	LAND PLUG, NO RETURNS
23	CHECK FLOATS	6/7/2023	09:19					FLOATS HELD, 1.75 BBLs FLOW BACK
24	RIG DOWN	6/7/2023	09:30					RIG DOWN MEETING, RIG DOWN
25	LEAVE LOCATION	6/7/2023	10:30					CREW LEAVE LOCATION

Pump Diagrams



JobMaster Program Version 5.01C1
Job Number: 87315
Customer: TERRA
Well Name: LEVERICH SR 424-13



Job Start: Wednesday, June 07, 2023