



Terra Energy Partners, LLC

SURFACE POST JOB REPORT

FEDERAL RWF 432-9 05-045-24403
S:9 T:6S R:94W Garfield CO

CallSheet #: 80272
Proposal #: 57815



SURFACE Post Job Report

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

Dear 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,

Michael Harold

Field Engineer II | (970) 773-3636 | michael.harold@americacementing.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	19.124	94	n/a	0	110	0
Open Hole	Outer	n/a	13.5	n/a	n/a	120	500	16
Open Hole	Outer	n/a	13.5	n/a	n/a	500	1128	16
Casing	Inner	9.625	8.921	36	n/a	0	1121	0

Equipment / People

Unit Type	Unit	Power Unit	Employee #1
Cement Trailer	CTF-249	TRC(TRB)-090	Carrasco, Joel
Cement Pump	CPF-012	TRH-964	McNeal, Lawrence
Light Duty Vehicles	LDV-063		Castillo, Francisco

Timing

Event	Date/Time
Call Out	2/17/2022 17:00
Depart Facility	2/17/2022 18:45
On Location	2/17/2022 19:30
Rig Up Iron	2/17/2022 20:00
Job Started	2/18/2022 01:36
Job Completed	2/18/2022 02:31
Rig Down Iron	2/18/2022 02:50
Depart Location	2/18/2022 03:45

General Job Information

Metrics	Value
Well Fluid Density	9.1 lb/gal
Well Fluid Type	WBM
Rig Circulation Vol	300 bbls
Rig Circulation Time	0.5 hours
Calculated Displacement	83 bbls
Actual Displacement	83 bbls
Total Spacer to Surface	20 bbls
Total CMT to Surface	48 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	Yes
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	80 °F
BHST	97 °F

Water Analysis

Metrics	Value	Recommended
Water Source	Upright Rig Tank	
Temperature	57 °F	50-80 °F
pH Level	7	5.5-8.5
Chlorides	0 mg/L	0-3000 mg/L
Total Alkalinity	240	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	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	Additional Lead	Lead	12.30	2.34	13.42		50.00	20.83	0
3	Lead Cement	Lead	12.30	2.34	13.42		169.00	70.39	0
4	Tail Cement	Tail	12.80	2.08	11.46		174.00	64.35	500
5	Water	DisplacementFinal	8.34			42.00		83.00	0

Job Fluid Details

Fluid	Type	Fluid	Product	Function	Conc.	Uom
2	Lead	Additional Lead	ASTM TYPE I/II	Cement	100.00	%
2	Lead	Additional Lead	A-10	Accelerator	5.00	%BWOB
2	Lead	Additional Lead	A-2	Accelerator	2.00	lb/sk
2	Lead	Additional Lead	A-7P	Accelerator	2.00	lb/sk
2	Lead	Additional Lead	FP-24	Defoamer	0.30	%BWOB
2	Lead	Additional Lead	IntegraSeal POLI	LostCirculation	0.25	lb/sk
2	Lead	Additional Lead	STATIC FREE	Other	0.01	lb/sk
3	Lead	Lead Cement	ASTM TYPE I/II	Cement	100.00	%
3	Lead	Lead Cement	A-10	Accelerator	5.00	%BWOB
3	Lead	Lead Cement	A-2	Accelerator	2.00	lb/sk
3	Lead	Lead Cement	A-7P	Accelerator	2.00	lb/sk
3	Lead	Lead Cement	FP-24	Defoamer	0.30	%BWOB
3	Lead	Lead Cement	IntegraSeal POLI	LostCirculation	0.25	lb/sk
3	Lead	Lead Cement	STATIC FREE	Other	0.01	lb/sk
4	Tail	Tail Cement	ASTM TYPE I/II	Cement	100.00	%
4	Tail	Tail Cement	A-10	Accelerator	5.00	%BWOB
4	Tail	Tail Cement	A-2	Accelerator	2.00	lb/sk
4	Tail	Tail Cement	A-7P	Accelerator	2.00	lb/sk
4	Tail	Tail Cement	FP-24	Defoamer	0.30	%BWOB
4	Tail	Tail Cement	IntegraSeal POLI	LostCirculation	0.25	lb/sk
4	Tail	Tail 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	2/17/2022	17:00					ON LOCATION AT 19:30 HRS
2	LEAVE YARD	2/17/2022	18:45					CREW LEAVE THE YARD
3	ON LOCATION	2/17/2022	19:30					CREW ON LOCATION
4	RIG UP	2/17/2022	20:00					RIG UP MEETING, RIG UP
5	SAFETY MEETING	2/18/2022	01:25					PRE-JOB SAFETY MEETING
6	PRESSURE TEST	2/18/2022	01:33				3412	PRESSURE TEST LINES
7	PUMP SPACER	2/18/2022	01:36	8.34	5.5	20	467	WATER SPACER
8	LEAD CEMENT	2/18/2022	01:43	12.3	6.3	50	545	LEAD 219 SKS/91 BBLS AT 12.3 PPG
9	LEAD CEMENT	2/18/2022	01:51	12.3	6.3	41	517	91 BBLS LEAD CEMENT PUMPED
10	TAIL CEMENT	2/18/2022	01:58	12.8	6.3	64	547	TAIL 174 SKS/64 BBLS AT 12.8 PPG
11	SHUTDOWN	2/18/2022	02:09					SHUTDOWN, DROP PLUG
12	DISPLACEMENT	2/18/2022	02:15	8.34	7	73	845	DISPLACEMENT WATER
13	SLOW RATE	2/18/2022	02:29	8.34	3	10	415	SLOW RATE LAST 10 BBLS
14	LAND PLUG	2/18/2022	02:31				1063	LAND PLUG, 48 BBLS CMT TO SURFACE
15	CHECK FLOATS	2/18/2022	02:38					FLOATS HELD, 0.75 BBL FLOW BACK
16	RIG DOWN	2/18/2022	02:50					RIG DOWN MEETING, RIG DOWN
17	LEAVE LOCATION	2/18/2022	03:45					CREW LEAVE LOCATION

Pump Diagrams

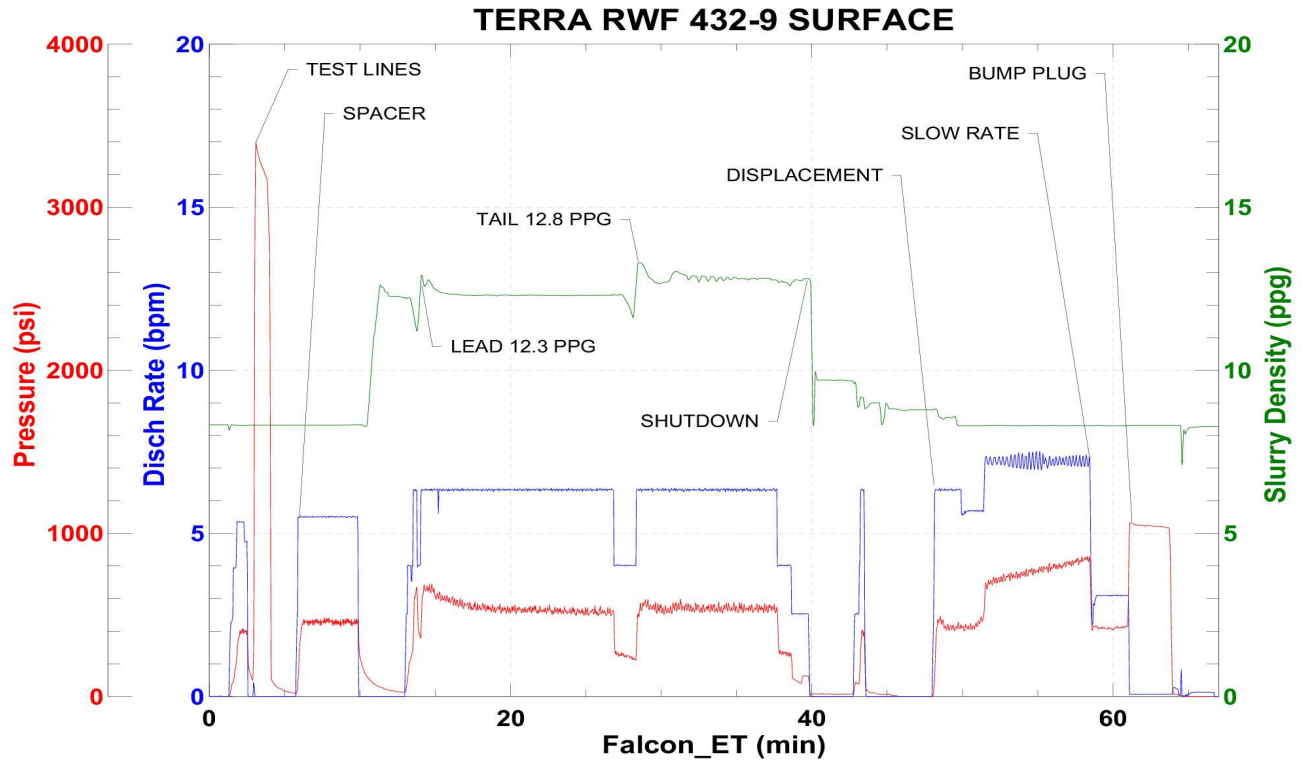


JobMaster Program Version 5.01C1

Job Number: 80272

Customer: TERRA

Well Name: RWF 432-9



BJ Services

Job Start: Friday, February 18, 2022