



Terra Energy Partners, LLC

SURFACE POST JOB REPORT

FEDERAL NR 443-4 05-045-24476

S:3 T:6S R:94W Garfield CO

CallSheet #: 80833

Proposal #: 58914



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,

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 (%)
Open Hole	Outer	n/a	13.5	n/a	n/a	0	500	16
Open Hole	Outer	n/a	13.5	n/a	n/a	500	1124	16
Casing	Inner	9.625	8.921	36	n/a	0	1124	0

Equipment / People

Unit Type	Unit	Power Unit	Employee #1	Employee #2
Cement Trailer	CTF-246	TRC(TRB)-090	Richey, Steven	Morales, Adrian
Cement Pump	CPF-053	TRH-855	McNeal, Lawrence	
Light Duty Vehicles	LDV-063		Castillo, Francisco	

Timing

Event	Date/Time
Call Out	4/1/2022 17:00
Depart Facility	4/1/2022 18:30
On Location	4/1/2022 19:30
Rig Up Iron	4/1/2022 20:00
Job Started	4/1/2022 23:36
Job Completed	4/2/2022 00:45
Rig Down Iron	4/2/2022 01:00
Depart Location	4/2/2022 01:45

General Job Information

Metrics	Value
Well Fluid Density	9.2 lb/gal
Well Fluid Type	WBM
Rig Circulation Vol	240 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	15 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	No
Flare at End of Job	0 units
Well Full Prior to Job	Yes
Well Fluid Density Into Well	9.2 lb/gal
Well Fluid Density Out of Well	9.2 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 (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		129.00	50.85	0
3	Tail	Tail	12.80	1.97	10.87		183.00	64.05	500
4	Water	DisplacementFinal	8.34			42.00		83.00	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	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
2	Lead	Lead	XCem-1101	Thixotropic	1.00	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	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
3	Tail	Tail	XCem-1101	Thixotropic	1.00	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	4/1/2022	17:00					ON LOCATION AT 19:30 HRS
2	LEAVE YARD	4/1/2022	18:30					CREW LEAVE THE YARD
3	ON LOCATION	4/1/2022	19:30					CREW ON LOCATION
4	RIG UP	4/1/2022	20:00					RIG UP MEETING, RIG UP
5	SAFETY MEETING	4/1/2022	23:10					PRE-JOB SAFETY MEETING
6	PRESSURE TEST	4/1/2022	23:03				3500	PRESSURE TEST LINES
7	PUMP SPACER	4/1/2022	23:36	8.34	5.5	20	351	WATER SPACER
8	LEAD CEMENT	4/1/2022	23:41	12.3	4	51	323	LEAD 129 SKS/51 BBLs AT 12.3 PPG
9	TAIL CEMENT	4/1/2022	23:53	12.8	6	64	597	TAIL 183 SKS/64 BBLs AT 12.8 PPG, CALCULATED TOP OF TAIL 416'
10	SHUTDOWN	4/2/2022	00:05					SHUTDOWN, DROP PLUG
11	DISPLACEMENT	4/2/2022	00:08	8.34	8	73	737	DISPLACEMENT WATER
12	SLOW RATE	4/2/2022	00:18	8.34	3.5	10	342	SLOW RATE
13	LAND PLUG	4/2/2022	00:21				930	LAND PLUG, 15 BBLs CMT TO SURFACE
14	CHECK FLOATS	4/2/2022	00:25					FLOATS DID NOT HOLD
15	RE-BUMP	4/2/2022	00:27					RE-BUMP PLUG
16	CHECK FLOATS	4/2/2022	00:45					FLOATS HELD, 0.5 BBL FLOW BACK
17	RIG DOWN	4/2/2022	01:00					RIG DOWN MEETING, RIG DOWN
18	LEAVE LOCATION	4/2/2022	01:45					CREW LEAVE LOCATION

Pump Diagrams



JobMaster Program Version 5.01C1
Job Number: 80833
Customer: TERRA
Well Name: FED NR 443-4

