



Terra Energy Partners, LLC

LONG STRING POST JOB REPORT

FEDERAL NR 33-4 05-045-24467
S:3 T:6S R:94W Garfield CO

CallSheet #: 82264
Proposal #: 61151



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) 657-1157

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	1118	0
Open Hole	Outer	n/a	8.75	n/a	n/a	1118	8219	45
Open Hole	Outer	n/a	8.75	n/a	n/a	8219	11032	45
Casing	Inner	4.5	4	11.6	n/a	0	11032	0

Equipment / People

Unit Type	Unit	Power Unit	Employee #1
AS Cement Trailer Float	CTF-901	TRC(TRB)-201	Gonzales, Ivan
AS Cement Trailer Float	CTF-019	TRB-421	Carrasco, Joel
Field Storage Silo	FSS(CTS)-438		
Field Storage Silo	FSS(CTS)-470		
AS Cement Trailer Float	CTF-9299	TRC(TRB)-201	Gonzales, Ivan
Cement Trailer Float	CTF-576	TRH(TRB)-769	Hansen, James
Cement Pump Float	CPF-091	TRH-964	Gonzales, Ivan
Light Duty Vehicles	LDV-083		Putnam, Gage

Timing

Event	Date/Time
Call Out	7/8/2022 04:00
Depart Facility	7/8/2022 09:00
On Location	7/8/2022 09:30
Rig Up Iron	7/8/2022 09:45
Job Started	7/8/2022 14:12
Job Completed	7/8/2022 16:05
Rig Down Iron	7/8/2022 16:15
Depart Location	7/8/2022 17:00

General Job Information

Metrics	Value
Well Fluid Density	10.8 lb/gal
Well Fluid Type	WBM
Rig Circulation Vol	1010 bbls
Rig Circulation Time	1.5 hours
Calculated Displacement	170.4 bbls
Actual Displacement	170.4 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	2000 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	10.8 lb/gal
Well Fluid Density Out of Well	10.8 lb/gal

Job Details (cont.)

Metrics	Value
BHCT	182 °F
BHST	252 °F

Water Analysis

Metrics	Value	Recommended
Water Source	Upright Rig Tank	
Temperature	66 °F	50-80 °F
pH Level	7	5.5-8.5
Chlorides	72 mg/L	0-3000 mg/L
Total Alkalinity	120	0-1000
Total Hardness	80 mg/L	0-500 mg/L
Carbonates	NA mg/L	0-100 mg/L
Sulfates	200 mg/L	0-1500 mg/L
Potassium	450 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	5886
2	Mud Flush	Flush	8.45			40.86		20.00	6012
3	Water	Flush	8.34			42.00		10.00	6264
4	12.7 Lead	Lead	12.70	2.00	10.99		407.00	145.15	6390
5	14.2 Tail	Tail	14.20	1.72	8.09		747.00	229.01	8219
6	Displacement	DisplacementFinal	8.34			42.00		170.00	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	12.7 Lead	ASTM TYPE I/II	Cement	100.00	%
4	Lead	12.7 Lead	BA-90	BondEnhancer	3.00	lb/sk
4	Lead	12.7 Lead	FL-66	FluidLoss	0.50	%BWOB
4	Lead	12.7 Lead	FP-24	Defoamer	0.30	%BWOB
4	Lead	12.7 Lead	GW-86	Viscosifier	0.10	%BWOB
4	Lead	12.7 Lead	IntegraSeal POLI	LostCirculation	0.25	lb/sk
4	Lead	12.7 Lead	R-3	Retarder	0.45	%BWOB
4	Lead	12.7 Lead	STATIC FREE	Other	0.01	lb/sk
5	Tail	14.2 Tail	CLASS G	Cement	80.00	%
5	Tail	14.2 Tail	FLY ASH (POZZOLAN)	Extender	20.00	%
5	Tail	14.2 Tail	FL-66	FluidLoss	0.40	%BWOB
5	Tail	14.2 Tail	FP-24	Defoamer	0.30	%BWOB
5	Tail	14.2 Tail	GW-86	Viscosifier	0.10	%BWOB
5	Tail	14.2 Tail	IntegraSeal POLI	LostCirculation	0.25	lb/sk
5	Tail	14.2 Tail	R-3	Retarder	0.15	%BWOB
5	Tail	14.2 Tail	S-8	StrengthRetrogression	27.00	%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	7/8/2022	04:00					CREW CALLED OUT FOR ON LOCATION TIME OF 11:00 7/8/22
2	Depart Location	7/8/2022	09:00					DEPART RCO YARD FOR LOCATION
3	Arrive On Location	7/8/2022	09:30					ARRIVE ON CUSTOMER SITE
4	Rig Up Iron	7/8/2022	09:45					RIG UP IRON AND HOSES
5	Waiting	7/8/2022	11:00					WAITING ON RIG TO RUN CASING
6	Safety Meeting	7/8/2022	13:20					JSA SAFETY MEETING WITH AC CREW, RIG HANDS, AND CUSTOMER REP
7	Fill Lines	7/8/2022	14:12	8.34	5	10	628	FILL LINES WITH FRESH WATER
8	Pressure Test Lines	7/8/2022	14:15	8.34			5300	PRESSURE TEST PUMP AND LINES TO 5000 PSI
9	Other	7/8/2022	14:19	8.45	6	20	710	PUMP MUD FLUSH + SURFACTANT
10	Other	7/8/2022	14:22	8.34	6	10	991	PUMP FRESH WATER FLUSH
11	Pump Lead Cement	7/8/2022	14:25	12.7	6	0	1084	BEGIN PUMPING LEAD CEMENT. DENSITY VERIFIED WITH MUD SCALE
12	Pump Lead Cement	7/8/2022	14:33	12.7	6	50	1211	50 BBLS LEAD CEMENT PUMPED
13	Pump Lead Cement	7/8/2022	14:41	12.7	6.5	50	1245	100 BBLS LEAD CEMENT PUMPED
14	Pump Lead Cement	7/8/2022	14:48	12.7	6	45.2	927	145.2 BBLS LEAD CEMENT PUMPED
15	Pump Tail Cement	7/8/2022	14:48	14.2	6	0	940	BEGIN PUMPING TAIL CEMENT. DENSITY VERIFIED WITH MUD SCALE
16	Pump Tail Cement	7/8/2022	14:58	14.2	5.5	50	757	50 BBLS TAIL CEMENT PUMPED
17	Pump Tail Cement	7/8/2022	15:06	14.2	6.6	50	878	100 BBLS TAIL CEMENT PUMPED
18	Pump Tail Cement	7/8/2022	15:13	14.2	6.6	50	885	150 BBLS TAIL CEMENT PUMPED
19	Pump Tail Cement	7/8/2022	15:22	14.2	5	50	556	200 BBLS TAIL CEMENT PUMPED
20	Pump Tail Cement	7/8/2022	15:27	14.2	3.5	29	308	229 BBLS TAIL CEMENT PUMPED
21	Clean Pumps and Lines	7/8/2022	15:27					SHUT DOWN, WASH UP PUMP AND LINES, BLOW DOWN LINES
22	Drop Top Plug	7/8/2022	15:43	8.34	5	0	353	DROP PLUG, VERIFIED BY CUSTOMER REP. BEGIN KCL DISPLACEMENT
23	Pump Displacement	7/8/2022	15:49	8.34	8	50	1050	50 BBLS KCL DISPLACEMENT PUMPED
24	Pump Displacement	7/8/2022	15:55	8.34	8	50	1805	100 BBLS KCL DISPLACEMENT PUMPED
25	Pump Displacement	7/8/2022	16:01	8.34	8	50	2682	150 BBLS KCL DISPLACEMENT PUMPED
26	Pump Displacement	7/8/2022	16:05	8.34	3	20.4	2309	170.4 BBLS KCL DISPLACEMENT PUMPED, SLOWED RATE LAST 10 BBLS TO 4 BPM
27	Land Plug	7/8/2022	16:05				3425	LAND PLUG. FCP - 2309 PSI, BUMPED TO 3425 PSI
28	Check Floats	7/8/2022	16:07					CHECK FLOATS. FLOATS HELD, 2.5 BBLS BACK
29	Rig Down Iron	7/8/2022	16:15					RIG DOWN IRON AND HOSES
30	Depart Location	7/8/2022	17:00					DEPART LOCATION FOR RCO YARD