



GMT Exploration SURFACE POST JOB REPORT

**Marble 6-65 24-12 #1HN 05-039-06693
S:24 T:6N R:65W Elbert CO**

CallSheet #: 81518
Proposal #: 59947



SURFACE Post Job Report

Attention: Trevor Smith | (720) 335-9045 | trevor.smith@iptenergyservices.com

GMT Exploration

1560 BROADWAY, STE 2000 | DENVER, CO 80202

Dear Trevor Smith,

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,

Jason Creel

Field Engineer Lead | (307) 256-0306 | jason.creel@americacementing.com

Field Office 1716 E Allison Rd, Cheyenne, WY 82007
Phone: (307) 414-0049

Job Details & Summary

Geometry

Type	Function	OD (in)	ID (in)	Weight (lb/ft)	Top (ft)	Bottom (ft)	Excess (%)
Casing	Outer	16	15.562	36.95	0	80	0
Open Hole	Outer		12.25		80	1150	100
Casing	Inner	9.625	9.001	32.3	0	1150	0

Equipment / People

Unit Type	Unit
Cement Trailer Float	CTF-566
Cement Trailer Float	CTF-338
Cement Pump Float	CPF-182
Cement Utility Float	CUF(FIF)-161

Timing

Event	Date/Time
Call Out	5/14/2022 19:00
Depart Facility	5/14/2022 22:00
On Location	5/15/2022 02:30
Rig Up Iron	5/15/2022 03:00
Job Started	5/15/2022 13:30
Job Completed	5/16/2022 00:01
Rig Down Iron	5/16/2022 00:30
Depart Location	5/16/2022 01:20

General Job Information

Metrics	Value
Well Fluid Density	8.4 lb/gal
Well Fluid Type	WBM
Rig Circulation Vol	N/A bbls
Rig Circulation Time	N/A hours
Calculated Displacement	16 bbls
Actual Displacement	16 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	8.4 lb/gal
Well Fluid Density Out of Well	8.4 lb/gal

Job Details (cont.)

Metrics	Value
BHCT	86 °F
BHST	110 °F
Initial ISIP	380 psi
Final ISIP	340 psi
Sks in	513
Formation	sks
Injection #1	2 bpm
Injection #1	275 psi
Injection #2	3 bpm
Injection #2	500 psi

Water Analysis

Metrics	Value	Recommended
Water Source	Upright Rig Tank	
Temperature	60 °F	50-80 °F
pH Level	7	5.5-8.5
Chlorides	0 mg/L	0-3000 mg/L
Total Alkalinity	140	0-1000
Total Hardness	250 mg/L	0-500 mg/L
Carbonates	40 mg/L	0-100 mg/L
Sulfates	<200 mg/L	0-1500 mg/L
Potassium	0 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	Fresh Water	Flush	8.34			42.00		20.00	0
2	Tail	Tail	14.20	1.47	7.36		1200.00	314.61	0
3	Fresh Water	DisplacementFinal	8.34			42.00		88.00	0

Job Fluid Details

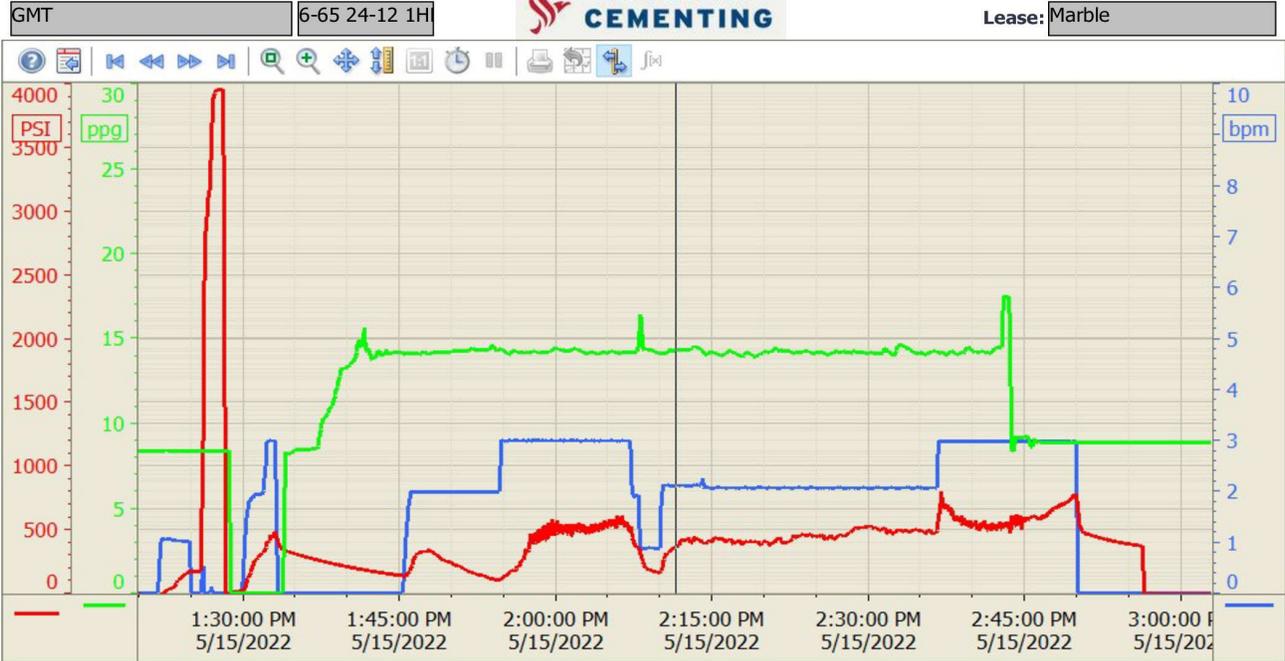
Fluid	Type	Fluid	Product	Function	Conc.	Uom
2	Tail	Tail	ASTM TYPE III	Cement	100.00	%
2	Tail	Tail	A-7P	Accelerator	1.00	%BWOB

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	5/14/2022	19:00					Crew called out requested on location ASAP
2	Depart For Location	5/14/2022	22:00					Crew departed for location
3	Arrive On Location	5/15/2022	02:30					Crew arrived on location
4	Safety Meeting	5/15/2022	02:45					Safety meeting
5	Rig Up Iron	5/15/2022	03:00					Spotted and rigged up all equipment
6	Waiting	5/15/2022	03:30					Waiting on rig to set retainer and establish injection rate
7	Safety Meeting	5/15/2022	13:30					Safety meeting
8	Fill Lines	5/15/2022	13:55	8.34	1	3	200	Fill lines with 3 bbls fresh water
9	Pressure Test Lines	5/15/2022	13:57					Pressure test lines to 3000 psi
10	Injection Test	5/15/2022	13:58	8.34	3	12		Injection test, 1 bpm @ 150 psi, 2 bpm @ 275 psi, 3 bpm @ 500 psi
11	Pump Cement	5/15/2022	14:10	14.2	3	134	500	Pump 134 bbls cement @ 14.2 ppg (513 sks, 1.47 Y, 7.36 gal/sk)(2 % CC BWOB)
12	Pump Displacement	5/15/2022	15:13	8.34	3	15	500	Pump 15 bbls fresh water displacement
13	Shutdown	5/15/2022	15:18					Shutdown
14	Waiting	5/15/2022	16:00					Waiting on rig to run temp log
15	Safety Meeting	5/15/2022	22:00					Safety meeting
16	Pump Spacer	5/15/2022	22:25	8.34	1	10	200	Pump 10 bbls water spacer
17	Pump Cement	5/15/2022	22:35	14.5	2	20	400	Pump 20 bbls cement @ 14.5 ppg (1.42 Y, 6.86 gal/sk) (3 % CC BWOB)
18	Pump Displacement	5/15/2022	22:49	8.34	2	6	250	Pump 6 bbls water displacement
19	Shutdown	5/15/2022	22:52					Shutdown, move lines to mouse hole to top out
20	Pump Spacer	5/15/2022	23:36	8.34	2	2	50	Pum 2 bbls water spacer
21	Pump Cement	5/15/2022	23:48	14.2	2	10	50	Pump 10 bbls cement @ 14.2 ppg (39 sks, 1.47 Y, 7.36, gal/sk)
22	Pump Displacement	5/15/2022	23:54	8.34	2	4	50	Pump 4 bbls water displacement
23	Shutdown	5/15/2022	23:55					Shutdown
24	Safety Meeting	5/16/2022	00:10					Safety meeting
25	Rig Down Iron	5/16/2022	00:30					Rigged down all equipment
26	Depart Location	5/16/2022	01:30					rew departed location

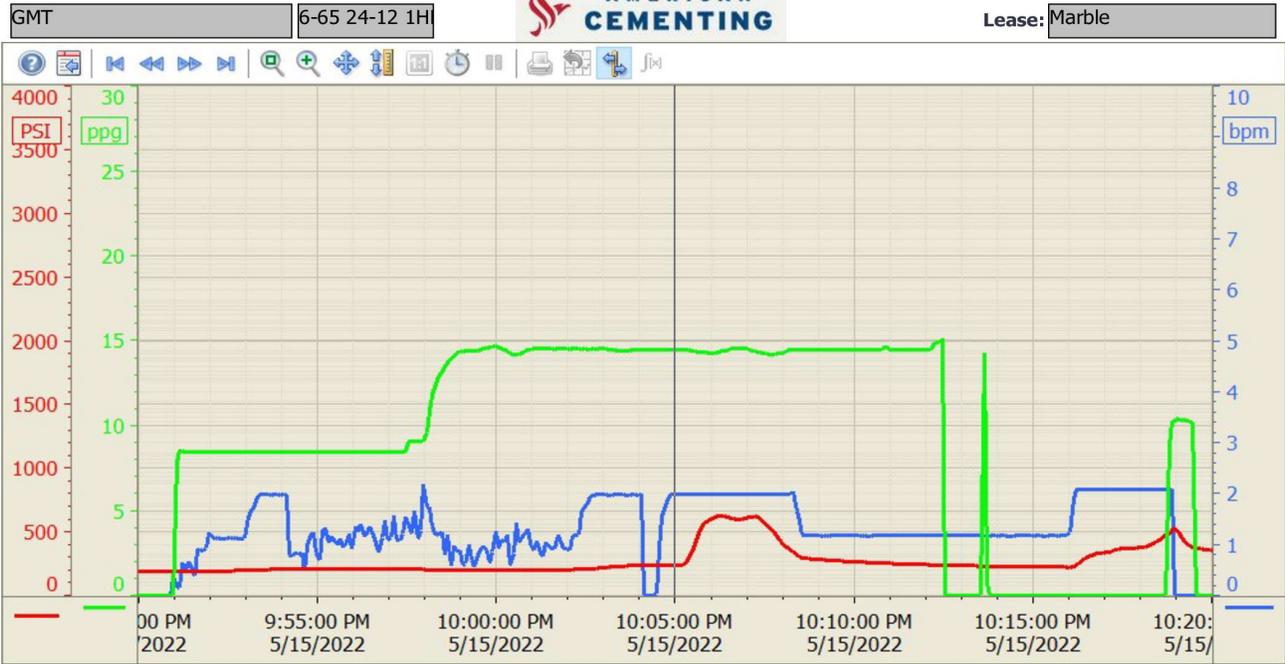
Pump Diagrams

Summary Trend



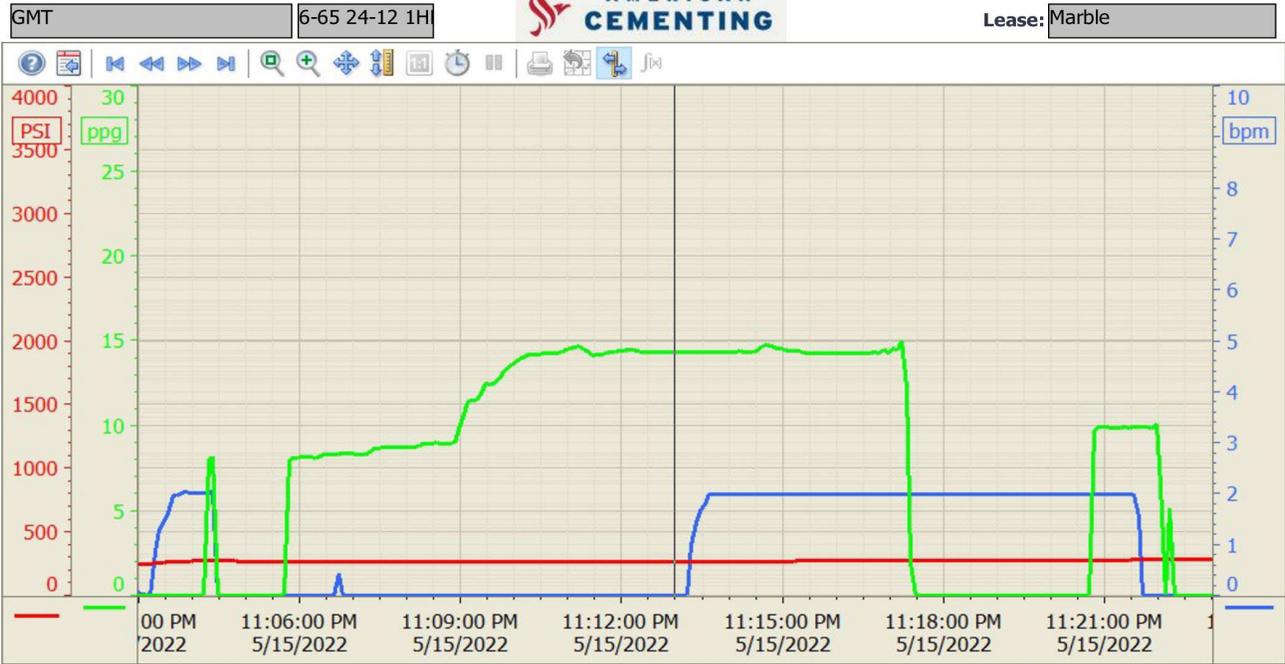
5/15/2022 11:31:06 P

Summary Trend



5/15/2022 11:32:20 P

Summary Trend



5/15/2022 11:33:46 P