



GMT Exploration SURFACE POST JOB REPORT

Crystal 6-65 22-10 #10HN 05-039-06742
S:22 T:6N R:65W Elbert CO

CallSheet #: 82033
Proposal #: 60673



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 (%)
Open Hole	Outer		13.5		0	2738	30
Casing	Inner	9.625	8.921	36	0	2727	0

Equipment / People

Unit Type	Unit
Cement Trailer Float	CTF-622
Field Storage Silo	FSS(CTS)-051
Cement Trailer Float	CTF-339
Cement Trailer Float	CTF-002
Cement Utility Float	CUF(FIF)-161
Cement Pump Float	CPF-183
Acid Trailer Float	ATF-067

Timing

Event	Date/Time
Call Out	6/17/2022 20:00
Depart Facility	6/17/2022 23:30
On Location	6/18/2022 02:30
Rig Up Iron	6/18/2022 05:15
Job Started	6/18/2022 11:11
Job Completed	6/18/2022 14:18
Rig Down Iron	6/18/2022 14:30
Depart Location	6/18/2022 16:30

General Job Information

Metrics	Value
Well Fluid Density	8.6 lb/gal
Well Fluid Type	WBM
Rig Circulation Vol	600 bbls
Rig Circulation Time	1.5 hours
Calculated Displacement	207 bbls
Actual Displacement	207 bbls
Total Spacer to Surface	130 bbls
Total CMT to Surface	38 bbls
Well Topped Out	No

Casing Equipment

Type	Description	Qty
CENTRALIZER,9-5/8"NON-WELD	BOW	32
DV TOOL	Set at 827'	1

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

Water Analysis

Metrics	Value	Recommended
Water Source	Flat Tank	
Temperature	60 °F	50-80 °F
pH Level	7	5.5-8.5
Chlorides	0 mg/L	0-3000 mg/L
Total Alkalinity	180	0-1000
Total Hardness	125 mg/L	0-500 mg/L
Carbonates	140 mg/L	0-100 mg/L
Sulfates	<200 mg/L	0-1500 mg/L
Potassium	450 mg/L	0-3000 mg/L
Iron	1 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	A-3L Flush	Flush	10.01			21.00		20.00	0
3	Fresh Water	Flush	8.34			42.00		10.00	0
4	Scavenger	Scavenger	11.00	3.51	21.95		48.00	30.05	0
5	Fresh Water	Flush	8.34			42.00		10.00	0
6	A-3L Flush	Flush	10.01			21.00		20.00	0
7	Fresh Water	Flush	8.34			42.00		20.00	0
8	Lead	Lead	12.00	2.55	14.77		613.00	278.88	0
9	Tail	Tail	12.50	2.25	12.47		80.00	32.02	2430
10	Fresh Water	DisplacementFinal	8.34			42.00		204.00	0

Job Fluid Details

Fluid	Type	Fluid	Product	Function	Conc.	Uom
2	Flush	A-3L Flush	A-3L	Accelerator	21.00	gal/bbl
4	Scavenger	Scavenger	ASTM TYPE III	Cement	100.00	%
4	Scavenger	Scavenger	A-10	Accelerator	5.00	%BWOB
4	Scavenger	Scavenger	A-2	Accelerator	2.00	lb/sk
4	Scavenger	Scavenger	A-7P	Accelerator	2.00	lb/sk
4	Scavenger	Scavenger	FP-24	Defoamer	0.30	%BWOB
4	Scavenger	Scavenger	IntegraSeal PHENO	LostCirculation	3.00	lb/sk
4	Scavenger	Scavenger	IntegraSeal POLI	LostCirculation	0.13	lb/sk
6	Flush	A-3L Flush	A-3L	Accelerator	21.00	gal/bbl
8	Lead	Lead	ASTM TYPE III	Cement	100.00	%
8	Lead	Lead	A-10	Accelerator	5.00	%BWOB
8	Lead	Lead	A-2	Accelerator	2.00	lb/sk
8	Lead	Lead	A-7P	Accelerator	2.00	lb/sk
8	Lead	Lead	FP-24	Defoamer	0.30	%BWOB
8	Lead	Lead	IntegraSeal PHENO	LostCirculation	3.00	lb/sk
8	Lead	Lead	IntegraSeal POLI	LostCirculation	0.13	lb/sk
9	Tail	Tail	ASTM TYPE III	Cement	100.00	%
9	Tail	Tail	A-10	Accelerator	5.00	%BWOB
9	Tail	Tail	A-2	Accelerator	2.00	lb/sk
9	Tail	Tail	A-7P	Accelerator	2.00	lb/sk
9	Tail	Tail	FP-24	Defoamer	0.30	%BWOB
9	Tail	Tail	IntegraSeal PHENO	LostCirculation	3.00	lb/sk
9	Tail	Tail	IntegraSeal POLI	LostCirculation	0.13	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	Call Out	6/18/2022	20:00					Customer requested crew for 4:00 6/18/22
2	Depart Location	6/18/2022	23:30					Crew has journey mangment and departs shop
3	Arrive On Location	6/19/2022	02:30					Crew arrives on location and meet with customer
4	Safety Meeting	6/19/2022	05:00					ACC has safety meeting over rigging up iron and hoses
5	Rig Up	6/19/2022	05:15					ACC rigs up iron and hoses
6	Safety Meeting	6/19/2022	11:01					Safety meeting with ACC, rig crew and company man over job and hazards
7	Fill Lines	6/19/2022	11:11	8.33	3	3	105	Fill pumps and lines
8	Pressure Test	6/19/2022	11:15	8.33	0.5	0.5	3500	Pressure test iron and head to 3000 PSI
9	Pump Fresh Water	6/19/2022	11:19	8.33	3	20	120	Pump 20 bbls of fresh water ahead
10	Pump SS	6/19/2022	11:25	10.1	3	20	145	Pump 20 bbls of 50/50 mix of sodiu silicate
11	Pump Fresh Water	6/19/2022	11:32	8.33	3	10	160	Pump 10 bbls of fresh water
12	Pump Scavenger Cement	6/19/2022	11:34	11	3	30	170	Pump 30 bbls Of Scavenger Cement (48 Sks, 11 PPG, 3.51 Yield, 21.95 Gals, 25 bbls Mix Water)
13	Pump Fresh Water	6/19/2022	11:42	8.33	3	10	170	Pump 10 bbls of fresh water
14	Pump SS	6/19/2022	11:44	10.1	3	20	155	Pump 20 bbls of 50/50 mis of sodium silicate
15	Pump Fresh Water	6/19/2022	11:52	8.33	3	20	179	Pump 20 bbls fresh water
16	Pump Lead Cement	6/19/2022	11:56	12	6	278	220	Pump 278 bbls of 12 PPG Lead Cement 6 bpm (613 Sks, 2.55 Yield, 14.77 Gals/Sks)
17	Pump Tail Cement	6/19/2022	12:53	12.5	6	32	140	Pump 32 bbls of 12.5 PPG Tail Cement 6 bpm (80 Sks, 2.25 Yield, 12.47 Gals/Sks, TOT 2392)
18	Shut Down	6/19/2022	13:03					Shut down pumping
19	Drop Top Plug	6/19/2022	13:09					Drop top plug with company man and tool hand
20	Pump Displacement	6/19/2022	13:09	8.33	4		200	Pump total of 207 bbls of fresh water displacement
21	Shut down	6/19/2022	13:13		1			10 bbls into displacement shut down due to rig cellar pump losing prime
22	Come back on Line	6/19/2022	13:16	8.33	4	10	30	Pump displacement at 4 bpm
23	Pick Up Rate	6/19/2022	13:33	8.33	5	50	400	50 bbls into displacement pick up to 5 bpm
24	Slow Rate	6/19/2022	13:34	8.33	3	55	500	55 bbls away slow rate to 3 bpm as requested by toolhand for plug going through DV tool
25	Pick Up Rate	6/19/2022	13:40	8.33	6	60	540	60 bbls into displacement pickup rate to 6 bpm
26	Pump Displacement	6/19/2022	13:45	8.33	6	100	600	100 bbls into displacement
27	Cement To Surface	6/19/2022	13:50	8.33	6	130	600	130 bbls into displacment got cement to surface for total of 77 bbls of cement to surface
28	Slow Rate	6/19/2022	14:00	8.33	6	190	715	190 bbls into displacement slow rate to 3 bpm
29	Bump plug	6/19/2022	14:03		6	207	1500	Bump plug to 1500 PSI, FCP of 700 psi, total displacement of 207 bbls
30	Check Floats	6/19/2022	14:06					Got 1.5 bbl back floats holding



Line	Event	Date (MM/DD/YY)	Time (HH:MM)	Density (lb/gal)	Pump Rate (bpm)	Pump Volume (bbls)	Pipe Pressure (psi)	Comment
31	Cancelation Plug	6/19/2022	14:18	8.33	0.5	2	1500	Pump 1 bbls pressured up to 1800 PSI, pressure suddleny dropped to 700 PSI. Toolhand requested to pump again. Pump 1 bbl to set plug at 1500 PSI holding , bleed pressure off got 2 bbl back and holding
32	Safety Meeting	6/19/2022	14:25					ACC has safety meeting over rigging down iron and hoses
33	Rig down Iron	6/19/2022	14:30					ACC crew rigs down iron and hoses
34	Depart Location	6/19/2022	16:30					ACC has journey mangement and departs from location

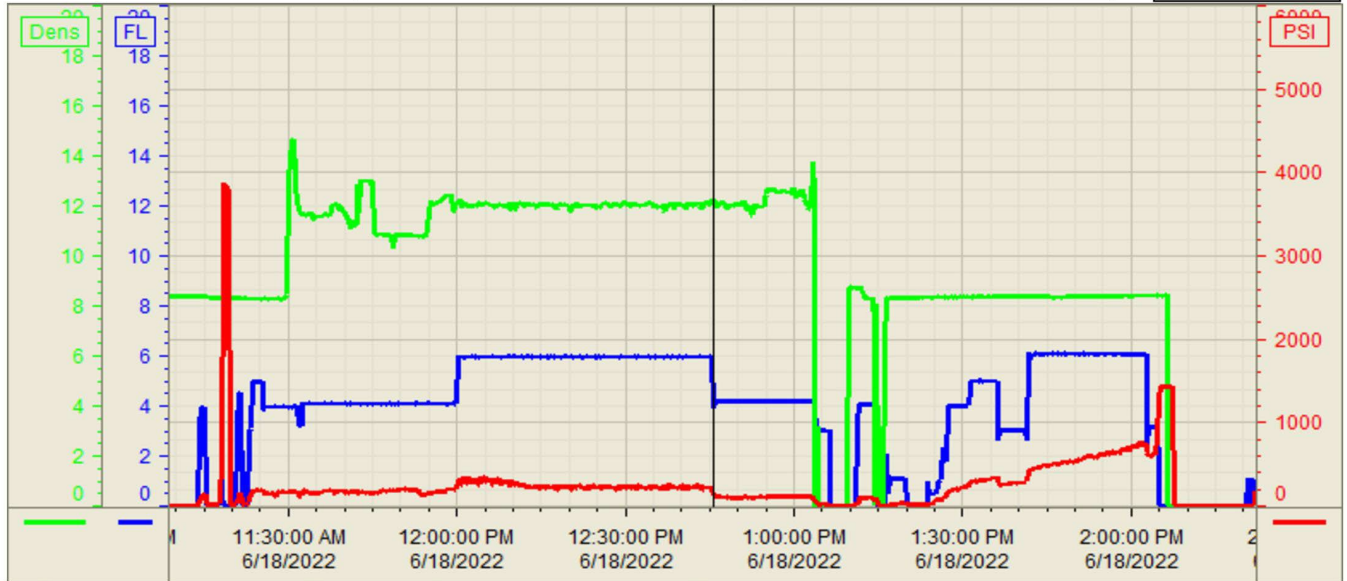
Pump Diagrams

Customer: GMT
Well Number: 6-65 22-10
Lease Info: Crystal

Stage	Sacks (sacks)	Water (gal/sack)	Slurry (cu.ft/sack)	Density (ppg)	Total (bbbls)
1	0.0	0.0	0.0	0.0	1000.0
2	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0

Stage	Sacks (sacks)	Water (gal/sack)	Slurry (cu.ft/sack)	Density (ppg)	Total (bbbls)
6	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0

Print Date/Time
6/18/2022 3:28:42 PM



Name	Y value	X value/time stamp	Tag name Y
1 DS - Press (PSI)	208.1	6/18/2022 12:45:26 PM	CementerDS_DISCHARGE_PRESS_DIAL
2 Den - Density (PPG)	12.21 i.	6/18/2022 12:45:30 PM i.	CementerDENSITY_ACTUAL_RATE
3 Pump Rate	4.95 i.	6/18/2022 12:45:30 PM i.	CementerFlow_Combined
4			
5			

Source: Control1 3:28:41 PM