Bison IV Operating, LLC
PLUG & ABANDON POST JOB REPORT

YAHN #1 05-123-14798
S:8 T:7N R:59W Weld CO

CallSheet #: 89174
Proposal #: 72531

Job Details & Summary

Geometry

Type	Function	OD (in)	ID (in)	Weight (lb/ft)	Top (ft)	Bottom (ft)	Excess (%)
Casing	Outer	8.625	8.097	24	0	493	0
Open Hole	Outer		7.875		493	6950	0
Tubing	Inner	2.875	2.441	6.4	0	6161	0

Equipment / People

Unit Type	Unit
Cement Trailer Float	CTF-341
Cement Trailer Float	CTF-338
Cement Utility Float	CUF-163
Cement Pump Float	CPF-184

Timing

Event	Date/Time
ERTS	12/01/2023 00:00
Call Out	12/2/2023 02:30
Depart Facility	12/2/2023 06:15
On Location	12/2/2023 08:10
Rig Up Iron	12/2/2023 08:25
Job Started	12/2/2023 09:35
Job Completed	12/3/2023 07:50
Rig Down Iron	12/3/2023 08:10
Depart Location	12/3/2023 08:30

General Job Information

Metrics	Value
Well Fluid Density	9.3 lb/gal
Well Fluid Type	WBM
Rig Circulation Vol	350 bbls
Rig Circulation Time	1 hours
Calculated Displacement	33 bbls
Actual Displacement	32 bbls
Total Spacer to Surface	0 bbls
Total CMT to Surface	7 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	9.3 lb/gal
Well Fluid Density Out of Well	9.3 lb/gal

Job Details (cont.)

Metrics	Value
BHCT	174 °F
BHST	210 °F

Water Analysis

Metrics	Value	Recommended
Water Source	Upright Rig Tank	
Temperature	55 °F	50-80 °F
pH Level	7	5.5-8.5
Chlorides	0 mg/L	0-3000 mg/L
Total Alkalinity	110	0-1000
Total Hardness	200 mg/L	0-500 mg/L
Carbonates	0 mg/L	0-100 mg/L
Sulfates	<250 mg/L	0-1500 mg/L
Potassium	300 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	Flush Ahead Plug-1	Flush	8.34			42.00		20.00	0
2	Plug-1: (5715')	Plug	15.80	1.15	5.00		130.00	26.58	0
3	Plug-1 Displacement	Displacement	8.34			42.00		33.00	0
4	Flush Ahead Plug-2	Flush	8.34			42.00		20.00	0
5	Plug-2: (1323')	Plug	15.80	1.16	5.01		100.00	20.74	0
6	Plug-2 Displacement	Displacement	8.34			42.00		8.00	0
7	Flush Ahead Plug-3	Flush	8.34			42.00		20.00	0
8	Plug-3: (600')	Plug	15.80	1.16	5.01		250.00	51.85	0
9	Plug-4 Displacement	DisplacementFinal	8.34			42.00		1.00	0

Job Fluid Details

Fluid	Type	Fluid	Product	Function	Conc.	Uom
2	Plug	Plug-1: (5715')	CLASS G	Cement	100.00	%
5	Plug	Plug-2: (1323')	CLASS G	Cement	100.00	%
5	Plug	Plug-2: (1323')	A-7P	Accelerator	2.00	%BWOB
8	Plug	Plug-3: (600')	CLASS G	Cement	100.00	%
8	Plug	Plug-3: (600')	A-7P	Accelerator	2.00	%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	12/2/2023	02:30					Customer calls with an O/L Time of 8:30 on 12/2/23
2	Arrive On Location	12/2/2023	08:10					
3	Rig Up Iron	12/2/2023	08:25					Rig everything up
4	Safety Meeting	12/2/2023	09:25					Pre-Job safety meeting with AC crew, Rig crew, and Company man
5	Rig Up Iron	12/2/2023	09:35					Rig up to the tubing
6	Fill Lines	12/2/2023	09:44	8.34	3	10	700	Fill lines, and break circulation
7	Pressure Test Lines	12/2/2023	09:50	8.34	0	0	3000	Test lines
8	Pump Cement	12/2/2023	09:54	15.8	3	26.6	650	Pump 130 sks of cement @15.8 ppg (calculated top cement 5715')
9	Pump Displacement	12/2/2023	10:07	8.34	3	1	100	Pump freshwater displacement
10	Pump Displacement	12/2/2023	10:08	9.3	3	30	100	Pump WBM displacement
11	Shutdown	12/2/2023	10:18	9.3	0	0	0	Shutdown, let plug balance
12	Waiting	12/2/2023	10:20					Waiting on rig to pull up above the plug
13	Pump Mud	12/2/2023	11:00	9.3	3	90	550	Pump mud to clean up the hole
14	Shutdown	12/2/2023	11:33	9.3	0	0	0	Shutdown, turn it over to the rig to circulate
15	Waiting	12/2/2023	11:35					Waiting on rig to tag cement, and pull up to 1667'
16	Rig Up Iron	12/2/2023	22:52					Rig up line to the tubing
17	Pump Spacer	12/2/2023	23:09	9.3	2	13	120	Pump mud to break circulation
18	Pump Cement	12/2/2023	23:19	15.8	3	20.7	150	Pump 100 sks of cement @15.8 with 2% calcium chloride (calculated top 1323')
19	Pump Displacement	12/2/2023	23:33	9.3		7		Pump mud displacement
20	Shutdown	12/2/2023	23:35	9.3	0	0	0	Shutdown, let plug balance
21	Waiting	12/2/2023	23:38					Wait 4 hours for the rig to tag the plug
22	Pump Spacer	12/3/2023	05:23	8.34	3	10	200	Pump water ahead to break circulation
23	Pump Cement	12/3/2023	05:33	15.8	4	65	205	Pump 320 sks of cement @15.8 ppg
24	Shutdown	12/3/2023	05:55	15.8	0	0	0	Good cement to surface, shutdown (7 bbls to surface)
25	Waiting	12/3/2023	06:00					Waiting to see if cement falls, and if we need to top off the surface plug
26	Pump Cement	12/3/2023	07:40	15.8	1	8	0	Batch and pump 8 bbls of cement @15.8 ppg to top of well
27	Shutdown	12/3/2023	07:50					Job complete
28	Rig Down Iron	12/3/2023	08:10					
29	Leave Location	12/3/2023	08:30					
30		12/3/2023	00:00					

Pump Diagrams