

Red Rocks 1-16 Cement 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	STC	0	1052	10
Open Hole	Outer	n/a	12.25	n/a	n/a	1052	1136	

Equipment / People

Unit Type	Unit	Power Unit	Employee #1
Cement Trailer Float	1001	TPD-600	Brad Butler
Cement Trailer Float	1001	TPD-600	Brandon Parks
Cement Trailer Float	1001	TPD-600	Dominick Stogsdil
Cement Pump Float	1001	TPD-600	Eric Stogsdil
Cement Pump Float	1001	TPD-600	Dalen Stogsdil

Timing

Event	Date/Time
Call Out	9/23/23 21:30
Depart Facility	9/24/23 7:00
On Location	9/24/23 8:30
Rig Up Iron	9/24/23 10:40
Job Started	9/24/23 13:30
Job Completed	9/24/23 14:35
Rig Down Iron	9/24/23 15:25
Depart Location	9/24/23 15:55

General Job Information

Metrics	Value
Well Fluid Density	None
Well Fluid Type	Air
Sacks of Cement	182 sacks
Rig Circulation Time	0 hours
Calculated Displacement	81 bbls
Actual Displacement	80.45 bbl
Total Spacer to Surface	0 bbls
Total CMT to Surface	0 bbls
Well Topped Out	7 bbl

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	No
Well Fluid Density Into Well	0 lb/gal
Well Fluid Density Out of Well	0 lb/gal

Job Details (cont.)

Metrics	Value
BHCT	68 °F
BHST	75 °F

Water Analysis

Metrics	Value	Recommended
Water Source	None	
Temperature	°F	50-80 °F
pH Level	7	5.5-8.5
Chlorides	0 mg/L	0-3000 mg/L
Total Alkalinity	230	0-1000
Total Hardness	300 mg/L	0-500 mg/L
Carbonates	0 mg/L	0-100 mg/L
Sulfates	<100 mg/L	0-1500 mg/L
Potassium	0 mg/L	0-3000 mg/L
Iron	0 mg/L	0-300 mg/L

Circulation

No Lost Circulation Experienced

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	EZ Mud	Spacer	9.75			9.75 bbls		9.8 bbls	0
2	Lead Cement	Lead	13.20		8.5	41 bbls	182 sacks	50.5. bbls	0
5	Displacement	Displacement Final	8.42			82 bbls		82 bbls	0

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	9/23/23						On location 8:00 9/24/23
2	Depart For Location	9/24/23	7:00					Leave Trinidad hotel for location
3	Arrive On Location	9/24/2023	8:30					Arrive on location
5	Rig Up Iron	9/24/2023	10:40					Pre rig up safety meeting
6	Safety Meeting	9/24/2023	11:45					Pre job safety meeting
9	Fill Lines	9/24/2023	12:00	8.34	2.2	5	16	Fill lines with fresh water

10	Pressure Test Lines	9/24/2023	12:20				3000	Pressure test - Pass
11	Pump Spacer	9/24/2023	12:25	9.0	4.1	0	17	Pumping weighted spacer
13	Pump Lead Cement	9/24/2023	12:30	12.1	2.2	0	94	Pumping cement
19	Clean Pumps and Lines	9/24/2023	12:35					Wash pump and lines to cellar
20	Drop Top Plug	9/24/2023	12:40					Dropped plug, verified by Operator.
21	Pump Displacement	9/24/2023	12:45	8.45	4.5	0	44	Pumping displacement
27	Land Plug	9/24/2023	14:35				950 psi	328 psi bumped up to 950 psi
29	Rig Down Iron	9/24/2023	15:25					Safety meeting and rig down