

## Red Rocks 35-08 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	1020	10
Open Hole	Outer	n/a	12.25	n/a	n/a	1020	1113	

### 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	Demetrius Stogsdil
Cement Pump Float	1001	TPD-600	Eric's Stogsdil
Cement Pump Float	1001	TPD-600	Dalen Stogsdil

### Timing

Event	Date/Time
Call Out	8/16/23 11:30
Depart Facility	8/17/23 7:00
On Location	8/17/23 8:15
Rig Up Iron	8/17/23 9:10
Job Started	8/17/23 9:55
Job Completed	8/17/23 12:15
Rig Down Iron	8/17/23 14:15
Depart Location	8/17/23 14:30

### General Job Information

Metrics	Value
Well Fluid Density	None
Well Fluid Type	Air
Rig Circulation Vol	None
Rig Circulation Time	0 hours
Calculated Displacement	79 bbls
Actual Displacement	78.87 bbl
Total Spacer to Surface	0 bbls
Total CMT to Surface	0 bbls
Well Topped Out	9 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	72 °F
BHST	81°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 (ft3/sk)	Water Rq. (gal/sk)	Water Rq. (bbl)	Volume (sks)	Volume (bbl)	Designed Top (ft)
1	EZ Mud	Spacer	9.75			9.25 bbls		9.5 bbls	0
2	Lead Cement	Lead	13.45		8.75	36 bbls	176 sacks	51.5. bbls	0
5	Displacement	DisplacementFinal	8.34			79 bbls		79 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	8/16/23	11:30					On location 6:45 8/17/23
2	Depart For Location	8/17/23	7:00					Leave Trinidad hotel for location
3	Arrive On Location	8/17/23	8:15					Arrive on location
5	Safety Meeting	8/17/23	9:10					Pre rig up safety meeting
6	Rig Up Iron / Job Safety	8/17/23	9:15					Pre job saftey meeting
9	Fill Lines	8/17/23	9:20	8.34	2	5	15	Fill lines with fresh water

10	Pressure Test Lines	8/17/23	9:55				3000	Pressure test - Pass
11	Pump Spacer	8/17/23	10:20	9.0	4	0	16	Pumping weighted spacer
13	Pump Lead Cement	8/17/23	10:45	12.1	2.0	0	93	Pumping cement
19	Clean Pumps and Lines	8/17/23	10:05					Wash pump and lines to cellar
20	Drop Top Plug	8/17/23	10:30					Dropped plug, verified by Operator.
21	Pump Displacement	8/17/23	11:45	8.34	5	0	42	Pumping displacement
27	Land Plug	8/17/23	12:15				1000 psi	325 psi bumped up up 1000 psi
29	Rig Down Iron	8/17/23	2:15					Safety meeting and rig down
30	Move Off Location	8/17/23	2:30					Moved off location