

1 Job Details & Summary

1.1 Geometry

Type	Function	OD (in)	ID (in)	Weight (lb/ft)	Thread	Top (ft)	Bottom (ft)	Excess (%)
Casing	Outer	9.625	8.921	36	n/a	0	829	0
Open Hole	Outer	n/a	8.75	n/a	n/a	829	5000	16
Open Hole	Outer	n/a	8.75	n/a	n/a	5000	6680	18
Casing	Inner	7	6.366	23	LTC	0	6680	0

1.2 Equipment / People

Unit Type	Unit	Employee #1	Employee #2	Mileage
Field Bin	601			
Bulk Trailer	504	Nepgen, AJ		176
Cement Pump	101	Vasquez, Mike		176
Light Duty Pickups	8	Staples, Anthony	Acuna, Roger	176

1.3 Timing

Event	Date/Time
Call Out	8/2/2017 05:00
Depart Facility	8/2/2017 06:45
On Location	8/2/2017 08:52
Rig Up Iron	8/2/2017 10:00
Job Started	8/2/2017 16:09
Job Completed	8/2/2017 18:15
Rig Down Iron	8/2/2017 18:20
Depart Location	8/2/2017 19:00

1.4 General Job Information

Metrics	Value
Well Fluid Density	10.1 lb/gal
Well Fluid Type	WBM
Rig Circulation Vol	480 bbls
Rig Circulation Time	1 hours
Calculated Displacement	261.66 bbls
Actual Displacement	262 bbls
Total Spacer to Surface	20 bbls
Total CMT to Surface	30 bbls

1.5 Well Fluid Details

Metrics	Value
Plastic Viscosity	5
Yield Point	8
10 sec. SGS	10
10 min. SGS	17

1.6 Job Details

Metrics	Value
Flare Prior to Job	No
Flare During Job	No
Flare at End of Job	No
Well Full Prior to Job	Yes
Well Fluid Density Into Well	10.1 lb/gal
Well Fluid Density Out of Well	10.1 lb/gal

1.7 Job Details (cont.)

Metrics	Value
BHCT	158 °F
BHST	215 °F



1.8 Circulation

Lost Circulation Experienced
No

1.9 Job Execution Information

Job	Fluid	Product	Function	Density (lb/gal)	Yield (ft ³ /sk)	Water Rq. (gal/sk)	Water Rq. (gal/bbl)	Volume (sk)	Volume (bbl)	Top (ft)
1	1	CD Spacer	Spacer	11.00			33.21		20.00	0
1	2	ALTCem I100-X2	Lead	12.50	2.07	11.79		379.00	139.66	500
1	3	ALTCem I100-X1	Tail	15.80	1.15	4.96		262.00	53.79	5000
1	4	Water	DisplacementFinal	8.33			42.00		261.00	0

1.10 Job Fluid Details

Job	Fluid	Type	Fluid	Product	Function	Conc.	Uom
1	1	Spacer	CD Spacer	ASR-20	StrengthRetrogression	179.60	lb/bbl
1	1	Spacer	CD Spacer	AR-20	Retarder	1.02	lb/bbl
1	1	Spacer	CD Spacer	ASF-20	Surfactant	0.50	gal/bbl
1	1	Spacer	CD Spacer	AVS-10	Viscosifier	0.80	lb/bbl
1	2	Lead	ALTCem I100-X2	AC3-10	Cement	100.00	%
1	2	Lead	ALTCem I100-X2	ABX-30	BondEnhancer	0.30	%BWOB
1	2	Lead	ALTCem I100-X2	ADF-11	Defoamer	0.30	%BWOB
1	2	Lead	ALTCem I100-X2	AFL-10	FluidLoss	0.30	%BWOB
1	2	Lead	ALTCem I100-X2	AR-20	Retarder	0.40	%BWOB
1	3	Tail	ALTCem I100-X1	ACG-10	Cement	100.00	%
1	3	Tail	ALTCem I100-X1	ABX-30	BondEnhancer	0.20	%BWOB
1	3	Tail	ALTCem I100-X1	ADF-11	Defoamer	0.30	%BWOB
1	3	Tail	ALTCem I100-X1	ADS-10	Dispersant	0.20	%BWOB
1	3	Tail	ALTCem I100-X1	AFL-10	FluidLoss	0.20	%BWOB
1	3	Tail	ALTCem I100-X1	AR-10	Retarder	0.10	%BWOB



2 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	Yard call	8/2/2017	05:30					
2	Leave Yard	8/2/2017	06:45					
3	Arrive on Location	8/2/2017	08:52					Arrive on Location Casing Being Run
4	Spot Trucks	8/2/2017	10:00					
5	Pre-Rig Up Safety Meeting	8/2/2017	10:15					
6	Rig Up	8/2/2017	10:20					
7	Pre-Job Safety Meeting	8/2/2017	15:45					
8	Floor Rig Up	8/2/2017	16:00					
9	Load Lines	8/2/2017	16:09	8.34	2	2	300	
10	Pressure Test	8/2/2017	16:12	8.34			4000	
11	H2O Spacer	8/2/2017	16:15	8.34	3	18	700	20 Bbls Flush Spacer of H2O
12	CD Spacer	8/2/2017	16:20	11	5.5	20	600	20 Bbls of CD Spacer
13	Lead CMT	8/2/2017	16:26	12.5	6	126	750	Batch, Weigh, and Pump 379sks of 12.5# Lead Cement (139.7bbls)
14	Rate Change	8/2/2017	16:46	12.5	4	13	250	
15	Tail Cement	8/2/2017	16:52	15.8	6	48	600	Pump 262sks of 15.8# Tail Cement (54.7bbls) Top of Tail@ 4691ft
16	Rate Change	8/2/2017	16:58	15.8	4	6	550	
17	Shut Down Wash up	8/2/2017	17:00	8.34				
18	Release Plug	8/2/2017	17:05	8.34				
19	Displace	8/2/2017	17:06	8.34	8	1	100	
20	Displace	8/2/2017	17:18	8.34	8	49	500	50 Bbls Away
21	Displace	8/2/2017	17:28	8.34	6.5	50	300	100 Bbls Away
22	Displace	8/2/2017	17:36	8.34	6	50	850	150 Bbls Away
23	Displace	8/2/2017	17:46	8.34	6	50	1500	200 Bbls Away
24	Rate Change	8/2/2017	17:52	8.34	3	30	1750	230 Bbls Away Slowed Rate
25	Displace	8/2/2017	17:58	8.34	3	31	2000	
26	Bump	8/2/2017	18:02	8.34			2500	Bumped Plug @262 Bbls Away (30 Bbls CMT to Surface)
27	Check Floats	8/2/2017	18:03	8.34				3 Bbls Back Floats Held
28	Casing Test	8/2/2017	18:04	8.34			2100	
29	Bleed Off	8/2/2017	18:15	8.34			2177	
30	Rig Down Safety Meeting	8/2/2017	18:17					
31	Rig Down	8/2/2017	18:20					
32	Leave Location	8/2/2017	19:00					