

1 Job Details & Summary

1.1 Geometry

Type	Function	OD (in)	ID (in)	Weight (lb/ft)	Thread	Top (ft)	Bottom (ft)	Excess (%)
Open Hole	Outer	n/a	13.5	n/a	n/a	0	1552	25
Casing	Inner	9.625	8.921	36	LTC	0	1543	0

1.2 Equipment / People

Unit Type	Unit	Employee #1	Mileage
Bulk Trailer	503	Hyde, Andrew	160
Bulk Trailer	PPC41311	Seghetti, Joshua	160
Light Duty Pickups	7	Chambers, Andrew	160
Cement Pump	102	Vasquez, Mike	160

1.3 Timing

Event	Date/Time
Call Out	7/19/2017 18:00
Depart Facility	7/19/2017 19:00
On Location	7/19/2017 20:30
Rig Up Iron	7/19/2017 21:00
Job Started	7/20/2017 03:36
Job Completed	7/20/2017 05:11
Rig Down Iron	7/20/2017 05:50
Depart Location	7/20/2017 07:00

1.4 General Job Information

Metrics	Value
Well Fluid Density	8.4 lb/gal
Well Fluid Type	WBM
Rig Circulation Vol	134 bbls
Rig Circulation Time	0.3 hours
Calculated Displacement	115.72 bbls
Actual Displacement	115.72 bbls
Total Spacer to Surface	20 bbls
Total CMT to Surface	21 bbls
Well Topped Out	No

1.5 Well Fluid Details

Metrics	Value
Plastic Viscosity	1
Yield Point	4
10 sec. SGS	2
10 min. SGS	2
30 min. SGS	2
Filtrate	75
Flow Line Temp.	70

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	8.4 lb/gal
Well Fluid Density Out of Well	8.4 lb/gal

1.7 Job Details (cont.)

Metrics	Value
BHCT	88 °F
BHST	110 °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	Water	Flush	8.33			42.00		20.00	0
1	2	ALTCem S100-12	Lead	12.00	2.53	14.85		260.00	116.99	0
1	3	ALTCem S100-12	Tail	12.50	2.22	12.58		146.00	57.82	1040
1	4	Water	Displacement Final	8.33			42.00		116.00	0

1.11 Job Fluid Details

Job	Fluid	Type	Fluid	Product	Function	Conc.	Uom
1	2	Lead	ALTCem S100-12	AC3-10	Cement	100.00	%
1	2	Lead	ALTCem S100-12	ACL-10	Accelerator	2.00	lb/sk
1	2	Lead	ALTCem S100-12	ACL-20	Accelerator	5.00	%BWOB
1	2	Lead	ALTCem S100-12	ADF-11	Defoamer	0.30	%BWOB
1	2	Lead	ALTCem S100-12	ALC-10	Lost Circulation	0.13	lb/sk
1	2	Lead	ALTCem S100-12	AXE-30	Extender	2.00	lb/sk
1	3	Tail	ALTCem S100-12	AC3-10	Cement	100.00	%
1	3	Tail	ALTCem S100-12	ACL-10	Accelerator	2.00	lb/sk
1	3	Tail	ALTCem S100-12	ACL-20	Accelerator	5.00	%BWOB
1	3	Tail	ALTCem S100-12	ADF-11	Defoamer	0.30	%BWOB
1	3	Tail	ALTCem S100-12	ALC-10	Lost Circulation	0.13	lb/sk
1	3	Tail	ALTCem S100-12	AXE-30	Extender	2.00	lb/sk



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	CALL OUT	7/19/2017	18:00					BJ CREW CALLED OUT ON LOCATION AT 23:30
2	PRE-CONVOY	7/19/2017	18:45					DISCUSSED HAZARDS OF DRIVING
3	DEPART SHOP	7/19/2017	19:00					BJ CREW LEFT SHOP FOR LOCATION
4	ASSESSMENT OF LOCA	7/19/2017	20:30					MET WITH CUSTOMER REP WENT OVER JOB DETAILS AND WHERE TO SPOT EQUIPMENT
5	PRE-RIG UP	7/19/2017	21:00					DISCUSSED HAZARDS OF RIG UP
6	RIG UP	7/19/2017	21:15					BJ CREW RIGGED UP IRON
7	RIG UP COMPLETE	7/19/2017	22:00					RIG UP COMPLETED SAFELY
8	PRE-JOB	7/20/2017	02:45					CONDUCTED STEACS BRIEFING WITH CREW AND SAFETY MEETING WITH RIG CREW
9	FILL LINES	7/20/2017	03:36	8.33	1	2	90	FILLED LINES WITH 2 BBL FRESH WATER
10	PRESSURE TEST	7/20/2017	03:41	8.33	1	2	3000	TESTED LINES TO 3000 PSI
11	PUMP SPACER	7/20/2017	03:43	8.33	5	20	120	PUMPED 20 BBL OF DYED SPACER
12	PUMP LEAD CEMENT	7/20/2017	03:53	12	5	117	200	PUMPED 260/SKS,117 BBL OF 12/LB,2.53CUFT/FT,14.85GAL/SK OF LEAD CEMENT
13	PUMP TAIL CEMENT	7/20/2017	04:18	12.5	5	57.8	230	PUMPED 146/SKS,58.7 BBL OF 12.5LB,2.22CUFT/FT,12.58GAL/SK OF TAIL CEMENT
14	SHUTDOWN	7/20/2017	04:29					ALL CEMENT PUMPED
15	DROP PLUG	7/20/2017	04:31					TOP PLUG LEFT CEMENTING HEAD
16	DISPLACEMENT	7/20/2017	04:32	8.33	5	115.72	290	STARED PUMPING 115.72 BBL OF FRFRESH WATER DISPLACEMENT
17	CEMENT TO SURFACE	7/20/2017	04:53					21 bbls cement to surface at 94 bbls displaced
18	SLOW RATE	7/20/2017	04:55					SLOWED RATE AT 105 BBL DISPLACED TO 2BBL TO BUMP PLUG
19	BUMP PLUG	7/20/2017	04:59				980	BUMPED PLUG AT CALCULATED DISPLACEMENT OF 115 HAD ISSUES WITH IT LEAKING OFF WITH LANDING JOINT SO IT WAS REPUMPED FCP WAS 400 to 980 PSI
20	CHECK FLOATS	7/20/2017	05:11					FLOATS HELD GOT .5 BBL BACK
21	PRE-RIG DOWN	7/20/2017	05:35					DISCUSSED HAZARDS OF RIG DOWN
22	RIG DOWN	7/20/2017	05:50					BJ CREW RIGGED DOWN IRON



23	RIG DOWN COMPLETE	7/20/2017	06:30					RIG DOWN COMPLETED SAFELY
24	PRE-CONVOY	7/20/2017	06:45					DISCUSSED HAZARSD OF DRIVING
25	DEPART LOCATION	7/20/2017	07:00					BJ CREW DEPARTED LOCATION FOR SHOP

3 Water Analysis

Metrics	Value	Recommended
Water Source	Upright Rig Tank	
Temperature	747.5 °F	50-80 °F
pH Level	0	5.5-8.5
Chlorides	0 mg/L	0-3000 mg/L
Total Alkalinity	250	0-1000
Total Hardness	250 mg/L	0-500 mg/L
Carbonates	0 mg/L	0-100 mg/L
Sulfates	>200 mg/L	0-1500 mg/L
Potassium	400 mg/L	0-3000 mg/L
Iron	0 mg/L	0-300 mg/L

4 Pump Diagrams

