

Job Details & Summary

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	1555	25
Casing	Inner	9.625	8.921	36	n/a	0	1544	0

Equipment / People

Unit Type	Unit	Power Unit	Employee #1	Employee #2	Mileage
Cement Pump	103	203	Allred, David	Hyde, Zack	100
Light Duty Pickups	3		Hyde, Andrew		100
Bulk Trailer	503	208	Chambers, Andrew		100
Bulk Trailer	505	211			100
Plug Container	150519				
Swage	150539				

Timing

Event	Date/Time
Call Out	11/4/2016 03:30
Depart Facility	11/4/2016 04:30
On Location	11/4/2016 06:00
Rig Up Iron	11/4/2016 06:30
Job Started	11/4/2016 11:01
Job Completed	11/4/2016 12:08
Rig Down Iron	11/4/2016 13:00
Depart Location	11/4/2016 14:00

General Job Information

Metrics	Value
Well Fluid Density	8.6 lb/gal
Well Fluid Type	Water
Rig Circulation Vol	140 bbls
Rig Circulation Time	0.5 hours
Calculated Displacement	116 bbls
Actual Displacement	116 bbls
Total Spacer to Surface	20 bbls
Total CMT to Surface	16 bbls
Well Topped Out	No

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	8.6 lb/gal
Well Fluid Density Out of Well	8.6 lb/gal

Job Details (cont.)

Metrics	Value
BHCT	88 °F
BHST	109 °F

Circulation

Lost Circulation Experienced
No



Job Execution Information

Job	Fluid	Product	Function	Density (lb/gal)	Yield (ft ³ /sk)	Water Rq. (gal/sk)	Water Rq. (gal/bbl)	Volume (sks)	Volume (bbl)	Top (ft)
1	1	Water	Flush	8.33			42.00		20.00	0
1	2	ALTCem S100-12	Lead	12.00	2.52	14.80		260.00	116.77	0
1	3	ALTCem S100-12	Tail	12.50	2.22	12.53		145.00	57.31	1050
1	4	Water	DisplacementFinal	8.33			42.00		116.00	0

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-20	Defoamer	0.03	gal/sk
1	2	Lead	ALTCem S100-12	ALC-10	LostCirculation	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-20	Defoamer	0.03	gal/sk
1	3	Tail	ALTCem S100-12	ALC-10	LostCirculation	0.13	lb/sk
1	3	Tail	ALTCem S100-12	AXE-30	Extender	2.00	lb/sk



Job Logs

Line	#	Event	Date (MM/DD/YY)	Time (HH:MM)	Density (lb/gal)	Pump Rate (bpm)	Pump Volume (bbls)	Pipe Pressure (psi)	Annular Pressure (psi)	Comment
1		Call Out	11/4/2016	03:30						ALTCem crew got called out
2		Depart Yard	11/4/2016	04:30						ALTCem crew left yard
3		Arrive on Location	11/4/2016	06:00						ALTCem crew arrived on location
4		Safety Meeting	11/4/2016	06:15						ALTCem crew talked about the hazards of spotting in equipment and rigging up
5		Rig Up	11/4/2016	06:30						Rig up hoses
6		Waiting	11/4/2016	07:30						Wait for casing crew to finish running casing. On bottom at 9:45, rate 8 bpm, 64 Psi, no losses
7		Safety Meeting	11/4/2016	10:30						ALTCem and rig crew talked about the hazards of pumping the job
8		Fill Lines	11/4/2016	11:01	8.33	2	3	10		Fill lines with 3 bbls of water
9		Pressure Test	11/4/2016	11:05						Pressure test pumps and lines to 3000 psi
10		Pump Spacer	11/4/2016	11:07	8.33	2	20	10		Pump 20 bbls of dyed water spacer 2 bpm
11		Pump Lead Cement	11/4/2016	11:14	12	8	116	200		Mix up and pump 260 sks of ALTCem S100-12 lead cement at 12 ppg, yield 2.52, 14.8 gal/sk, 116 bbls, 8 bpm
12		Pump Tail Cement	11/4/2016	11:28	12.5	8	57	300		Mix up and pump 145 sks of ALTCem S100-12 lead cement at 12.5 ppg, yield 2.22, 12.53 gal/sk, 57 bbls, 8 bpm
13		Shutdown	11/4/2016	11:36						Shutdown to line out manifold to drop plug
14		Drop Top Plug	11/4/2016	11:37						Company man witness plug leave manifold
15		Pump Displacement	11/4/2016	11:41	8.33	8	116	200		Pump 116 bbls of water displacement
16		Slow Rate	11/4/2016	11:54	8.33	3		250		Slow rate to 3 bpm started to see spacer to surface at 80 away
17		Bump Plug	11/4/2016	12:06	8.33	3		350		Bump plug at 350 psi took it up to 920 psi
18		Check Floats	11/4/2016	12:08						Check floats got . 5 bbls back to the truck
19		Safety Meeting	11/4/2016	12:30						ALTCem crew talked about the hazards of rigging down
20		Rig Down	11/4/2016	13:00						Rig Down
21		Depart Location	11/4/2016	14:00						Thanks from ALTCem crew

Water Analysis

Metrics	Value	Recommended
Water Source	Upright Rig Tank	
Temperature	60 °F	50-80 °F
pH Level	6	5.5-8.5
Chlorides	1 mg/L	0-3000 mg/L
Total Alkalinity	40	0-1000
Total Hardness	25 mg/L	0-500 mg/L
Carbonates	8 mg/L	0-100 mg/L
Sulfates	<200 mg/L	0-1500 mg/L
Potassium	0 mg/L	0-3000 mg/L
Iron	0 mg/L	0-300 mg/L

Pump Diagrams

