



## Job Execution Information

Job	Fluid	Product	Function	Density (lb/gal)	Yield (ft³/sk)	Water Rq. (gal/sk)	Water Rq. (gal/bbl)	Volume (sk)	Volume (bbl)	Top (ft)
1	1	Water	Flush	8.33			42.00		10.00	0
1	2	ALTCem Sqz100-X1	Squeeze	15.80	1.15	4.92		200.00	40.85	0
1	3	Water	DisplacementFinal	8.33			42.00		14.00	0
1	4	ALTCem Sqz100-X1	Topout	15.80	1.15	4.92		100.00	20.43	0

## Job Fluid Details

Job	Fluid	Type	Fluid	Product	Function	Conc.	Uom	Start (gal)	End (gal)	Used (gal)
1	2	Squeeze	ALTCem Sqz100-X1	ACG-10	Cement	100.00	%			
1	2	Squeeze	ALTCem Sqz100-X1	AFL-13	FluidLoss	0.06	gal/sk			12

## 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		Safety Meeting	12/15/2015	12:00						Rig up safety meeting
2		Rig Up Iron	12/16/2015	12:10						
3		Safety Meeting	12/17/2015	13:30						Pre job safety meeting
4		Filled Lines	12/18/2015	13:46	8.33	1				Pumped 3 bbls
5		Pressure Test	12/19/2015	13:51					2500	Tested to 2500 psi
6	1	Injection Test	12/20/2015	13:54	8.33	1		1000		Began to establish injection rate
7	2	Injection Test	12/21/2015	13:54	8.33	1.5		1100		
8	3	Injection Test	12/22/2015	13:54	8.33	2		1200		ISIP was 925 psi
9		Shutdown	12/23/2015	14:10						Shutdown after injection rate was determined
10	4	Pump Cement	12/24/2015	14:21	15.8			1100		41 bbls, 200 sks of cement, 15.8 ppg, 1.15 cu ft./sk, 5 gal/sk, 23.4 bbls mix water
11	5	Displacement	12/25/2015	14:48	8.33	1	5	355		15bbls total displacement
12	6	Displacement	12/26/2015	15:05	8.33	1	4	800		
13	7	Displacement	12/27/2015	15:23	8.33	0.5	3	1050		
14	8	Displacement	12/28/2015	15:43	8.33	0.5	2	1100		
15	9	Displacement	12/29/2015	15:52	8.33	0.5	1	1080		
16	10	Reverse Circulate	12/30/2015	16:24	8.33	3	38	1000		Saw 1 bbl cement back
17		POOH	12/31/2015	16:40						Pulled 16 stands
18		Pressure Up	1/1/2016	17:00						Rig pump pressured up well to 500 psi, shut-in
19		Safety Meeting	1/2/2016	17:10						Rig down safety meeting
20		Rig Down	1/3/2016	17:15						Rig down iron
21		Depart Location	1/4/2016	18:15						Crew departed location