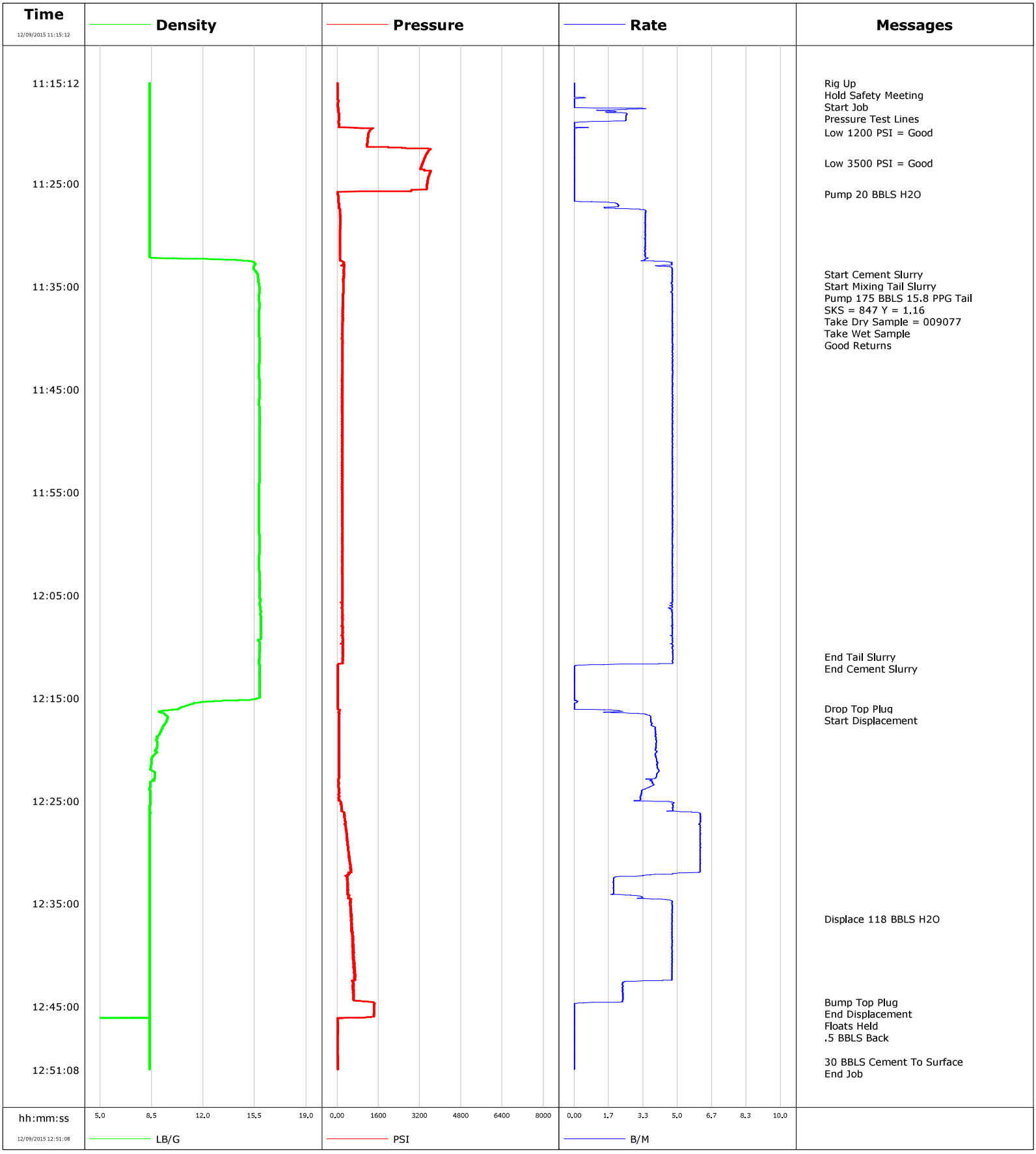
Schlumberger

Cementing Job Report

CemCAT v1.6

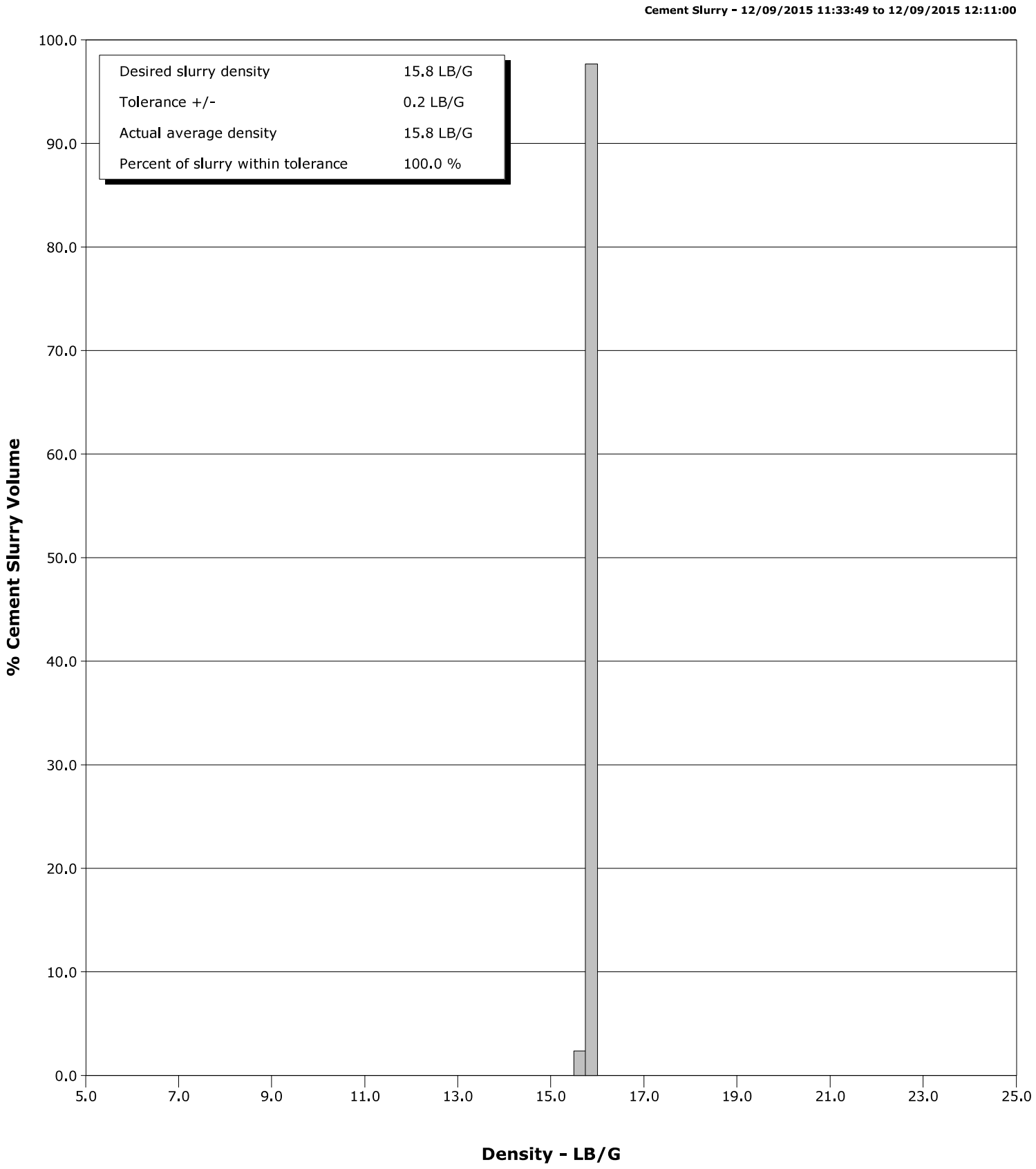
Well	Fairview 7	**Client**	Extraction
Field	DJ	**SIR No.**	2231958
Engineer	Conley Jensen/ Greg Black	**Job Type**	9 5/8 Surface
Country	United States	**Job Date**	12-09-2015



Schlumberger

Cementing Qa/Qc Density Report

Well	Fairview 7	**Client**	Extraction
Field	DJ	**SIR No.**	2231958
Engineer	Conley Jensen/ Greg Black	**Job Type**	9 5/8 Surface
Country	United States	**Job Date**	12-09-2015



Schlumberger Cementing Service Report

Customer	Job Number
Extraction	2231958

Well	Location (legal)	Schlumberger Location	Job Start
Fairview 7 7	CWY	CWY	Dec/09/2015

Field	Formation Name/Type	Deviation	Bit Size	Well MD	Well TVD
DJ	Shale	deg	13.5 in	1568.0 ft	1568.0 ft

County	State/Province	BHP	BHST	BHCT	Pore Press. Gradient
Weld	Colorado	psi	100 degF	84 degF	lb/gal

Well Master	API/UWI
0631637455	05123415180000

Rig Name	Drilled For	Service Via
Savanna 802	Oil	Land

Offshore Zone	Well Class	Well Type
	New	Development

Drilling Fluid Type	Max. Density	Plastic Viscosity
	lb/gal	cP

Service Line	Job Type
Cementing	9 5/8 Surface

Max. Allowed Tub. Press	Max. Allowed Ann. Press	WH Connection
psi	psi	Single Cement head

Service Instructions

Perform 9 5/8 Surface Per Proposal Design.

Casing/Liner

Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
1568.0	9.6	36.0	J55	8RD
0.0	0.0	0.0		

Tubing/Drill Pipe

T/D	Depth, ft	Size, in	Weight, lb/ft	Grade	Thread

Perforations/Open Hole

Top, ft	Bottom, ft	shot/ft	No. of Shots	Total Interval
ft	ft			ft
ft	ft			Diameter
ft	ft			in

Treat Down	Displacement	Packer Type	Packer Depth
Casing	118.0 bbl		ft

Tubing Vol.	Casing Vol.	Annular Vol.	Openhole Vol.
bbl	121.0 bbl	137.0 bbl	258.0 bbl

Casing/Tubing Secured	1 Hole Vol. Circulated prior to Cement
X	X

Lift Pressure	psi

Pipe Rotated	Pipe Reciprocated
☐	☐

No. Centralizers	Top Plugs	Bottom Plugs
	1	

Cement Head Type	Single

Job Scheduled For	Arrived on Location	Leave Location
Dec/09/2015 07:00	Dec/09/2015 07:00	Dec/09/2015 14:00

Casing Tools		Squeeze Job	
Shoe Type	Guide	Squeeze Type	
Shoe Depth	1568.0 ft	Tool Type	
Stage Tool Type		Tool Depth	ft
Stage Tool Depth	ft	Tail Pipe Size	in
Collar Type	Float	Tail Pipe Depth	ft
Collar Depth	1526.0 ft	Sqz. Total Vol.	bbl

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
12/09/2015	11:15:12	11	0.0	8.37	0.0	Started Acquisition
12/09/2015	11:15:14	11	0.0	8.37	0.0	Rig Up
12/09/2015	11:15:15	11	0.0	8.37	0.0	Hold Safety Meeting
12/09/2015	11:15:16	11	0.0	8.37	0.0	Start Job
12/09/2015	11:16:42	10	0.4	8.37	0.0	
12/09/2015	11:17:00	42	0.0	8.37	0.1	Pressure Test Lines
12/09/2015	11:18:12	56	2.5	8.37	1.2	
12/09/2015	11:19:42	1330	0.0	8.37	3.2	
12/09/2015	11:20:00	1257	0.0	8.37	3.2	Low 1200 PSI = Good
12/09/2015	11:21:12	1161	0.0	8.37	3.2	
12/09/2015	11:22:42	3354	0.0	8.37	3.2	
12/09/2015	11:23:00	3303	0.0	8.37	3.2	Low 3500 PSI = Good
12/09/2015	11:24:12	3551	0.0	8.37	3.2	
12/09/2015	11:25:42	2856	0.0	8.37	3.2	
12/09/2015	11:26:00	8	0.0	8.37	3.2	Pump 20 BBLS H2O
12/09/2015	11:27:12	67	2.1	8.37	4.0	
12/09/2015	11:28:42	110	3.4	8.37	8.7	
12/09/2015	11:30:12	88	3.5	8.37	13.9	
12/09/2015	11:31:42	86	3.4	8.37	19.0	
12/09/2015	11:33:12	261	4.7	15.40	5.0	
12/09/2015	11:33:49	235	4.7	15.67	7.9	Start Cement Slurry

Well	Field	Job Start	Customer	Job Number
Fairview 7 7	DJ	Dec/09/2015	Extraction	2231958

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
12/09/2015	11:33:52	221	4.7	15.68	8.1	Pump 175 BBLS 15.8 PPG Tail
12/09/2015	11:34:42	232	4.7	15.76	12.1	
12/09/2015	11:35:44	225	4.8	15.78	17.0	SKS = 847 Y = 1.16
12/09/2015	11:36:06	223	4.8	15.77	18.7	Take Dry Sample = 009077
12/09/2015	11:36:12	215	4.8	15.78	19.2	
12/09/2015	11:36:21	220	4.8	15.78	19.9	Take Wet Sample
12/09/2015	11:36:26	217	4.8	15.78	20.3	Good Returns
12/09/2015	11:37:42	205	4.7	15.78	26.4	
12/09/2015	11:39:12	194	4.8	15.78	33.5	
12/09/2015	11:40:42	197	4.8	15.79	40.6	
12/09/2015	11:42:12	201	4.8	15.79	47.8	
12/09/2015	11:43:42	191	4.8	15.78	54.9	
12/09/2015	11:45:12	195	4.8	15.80	62.1	
12/09/2015	11:46:42	201	4.8	15.79	69.2	
12/09/2015	11:48:12	195	4.8	15.82	76.4	
12/09/2015	11:49:42	201	4.8	15.80	83.5	
12/09/2015	11:51:12	201	4.8	15.81	90.7	
12/09/2015	11:52:42	196	4.8	15.81	97.8	
12/09/2015	11:54:12	192	4.8	15.78	104.9	
12/09/2015	11:55:42	199	4.8	15.77	112.1	
12/09/2015	11:57:12	201	4.8	15.77	119.2	
12/09/2015	11:58:42	200	4.8	15.77	126.4	
12/09/2015	12:00:12	202	4.8	15.79	133.5	
12/09/2015	12:01:42	199	4.8	15.78	140.7	
12/09/2015	12:03:12	203	4.8	15.81	147.8	
12/09/2015	12:04:42	198	4.8	15.82	154.9	
12/09/2015	12:06:12	201	4.8	15.87	162.1	
12/09/2015	12:07:42	200	4.8	15.91	169.2	
12/09/2015	12:09:12	214	4.8	15.89	176.3	
12/09/2015	12:10:42	216	4.8	15.82	183.5	
12/09/2015	12:11:00	215	4.8	15.80	184.9	End Tail Slurry
12/09/2015	12:12:12	33	0.0	15.83	0.0	
12/09/2015	12:13:42	32	0.0	15.82	0.0	
12/09/2015	12:15:12	32	0.1	14.85	0.0	
12/09/2015	12:16:00	32	0.0	10.40	0.0	Drop Top Plug
12/09/2015	12:16:42	65	3.7	9.50	1.4	
12/09/2015	12:18:12	57	3.9	9.15	7.1	
12/09/2015	12:19:42	61	4.0	8.87	13.0	
12/09/2015	12:21:12	58	4.0	8.47	18.9	
12/09/2015	12:22:42	61	4.0	8.69	25.0	
12/09/2015	12:24:12	80	3.3	8.40	30.4	
12/09/2015	12:25:42	161	4.8	8.38	36.2	
12/09/2015	12:27:12	307	6.1	8.38	44.9	
12/09/2015	12:28:42	385	6.1	8.38	54.0	
12/09/2015	12:30:12	445	6.1	8.38	63.1	
12/09/2015	12:31:42	536	6.1	8.38	72.3	
12/09/2015	12:33:12	405	1.9	8.37	77.2	
12/09/2015	12:34:42	524	4.7	8.37	80.9	
12/09/2015	12:36:12	573	4.7	8.38	88.1	
12/09/2015	12:36:29	526	4.7	8.38	89.4	Displace 118 BBLS H2O
12/09/2015	12:37:42	558	4.7	8.38	95.2	
12/09/2015	12:39:12	594	4.7	8.38	102.3	
12/09/2015	12:40:42	611	4.7	8.38	109.4	
12/09/2015	12:42:12	671	4.7	8.38	116.5	

Well	Field	Job Start	Customer	Job Number
Fairview 7 7	DJ	Dec/09/2015	Extraction	2231958

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
12/09/2015	12:44:33	1276	2.3	8.38	122.7	Bump Top Plug
12/09/2015	12:44:35	1343	2.1	8.38	122.8	End Displacement
12/09/2015	12:45:12	1423	0.0	8.38	122.9	
12/09/2015	12:46:00	1385	0.0	8.38	122.9	Floats Held
12/09/2015	12:46:42	17	0.0	8.38	122.9	
12/09/2015	12:48:12	17	0.0	8.38	122.9	
12/09/2015	12:49:42	17	0.0	8.38	122.9	
12/09/2015	12:50:20	17	0.0	8.38	122.9	30 BBLS Cement To Surface

Post Job Summary

Average Pump Rates, bbl/min				Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2
4.4			6.1	331.4	0.0	27.9	

Treating Pressure Summary, psi					Breakdown Fluid		
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density
3638	16	396	1200			bbl	lb/gal

Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp		
%	175.0 bbl	34.2 bbl	65 degF	Cement Circulated to Surface? [X]	Volume 30.0 bbl
				Washed Thru Perfs [ ]	To ft

Customer or Authorized Representative	Schlumberger Supervisor	Circulation Lost	Job Completed
Shawn Mcintire	Conley Jensen/ Greg Black	[ ] -	[X] -