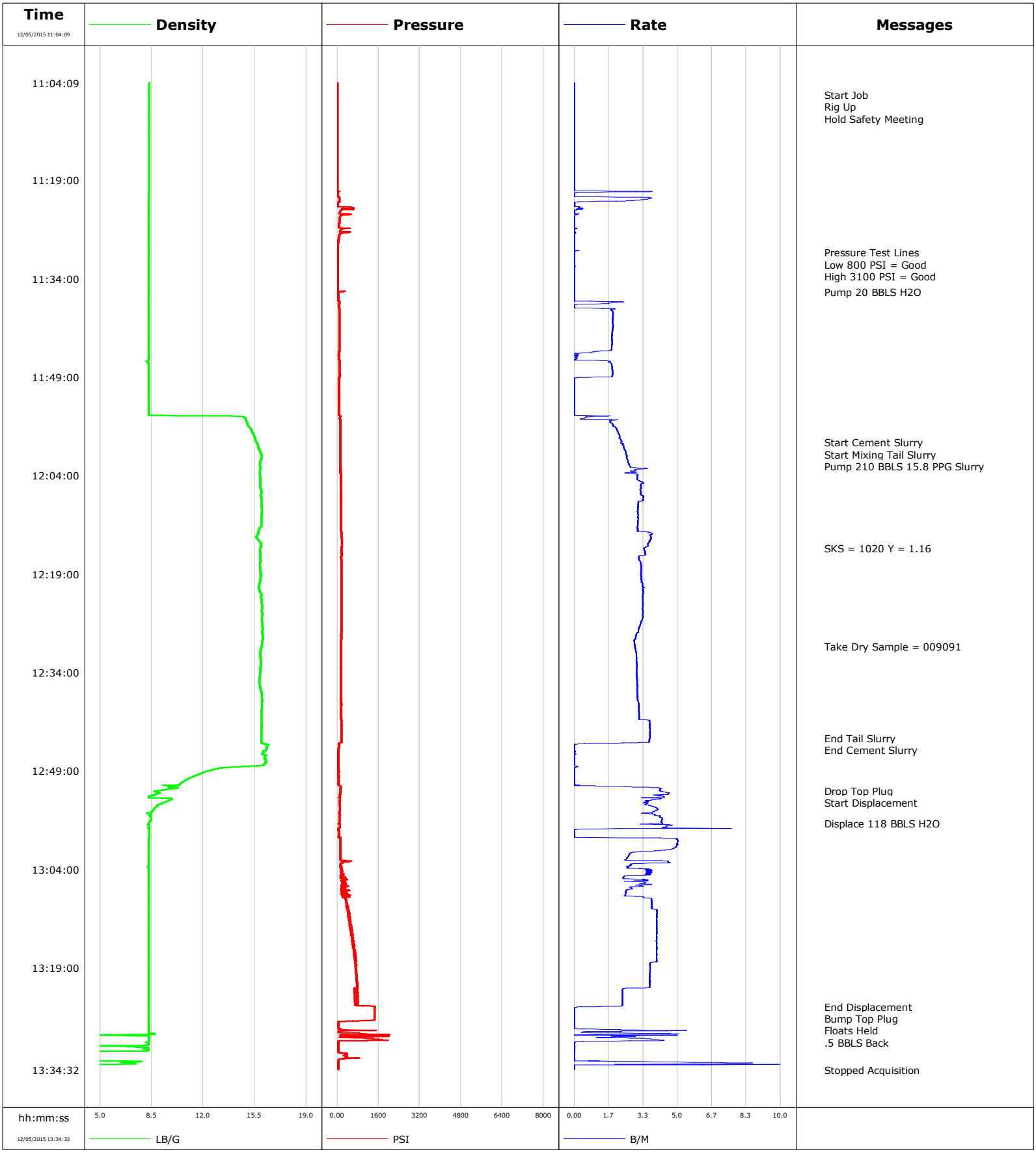
Schlumberger

Cementing Job Report

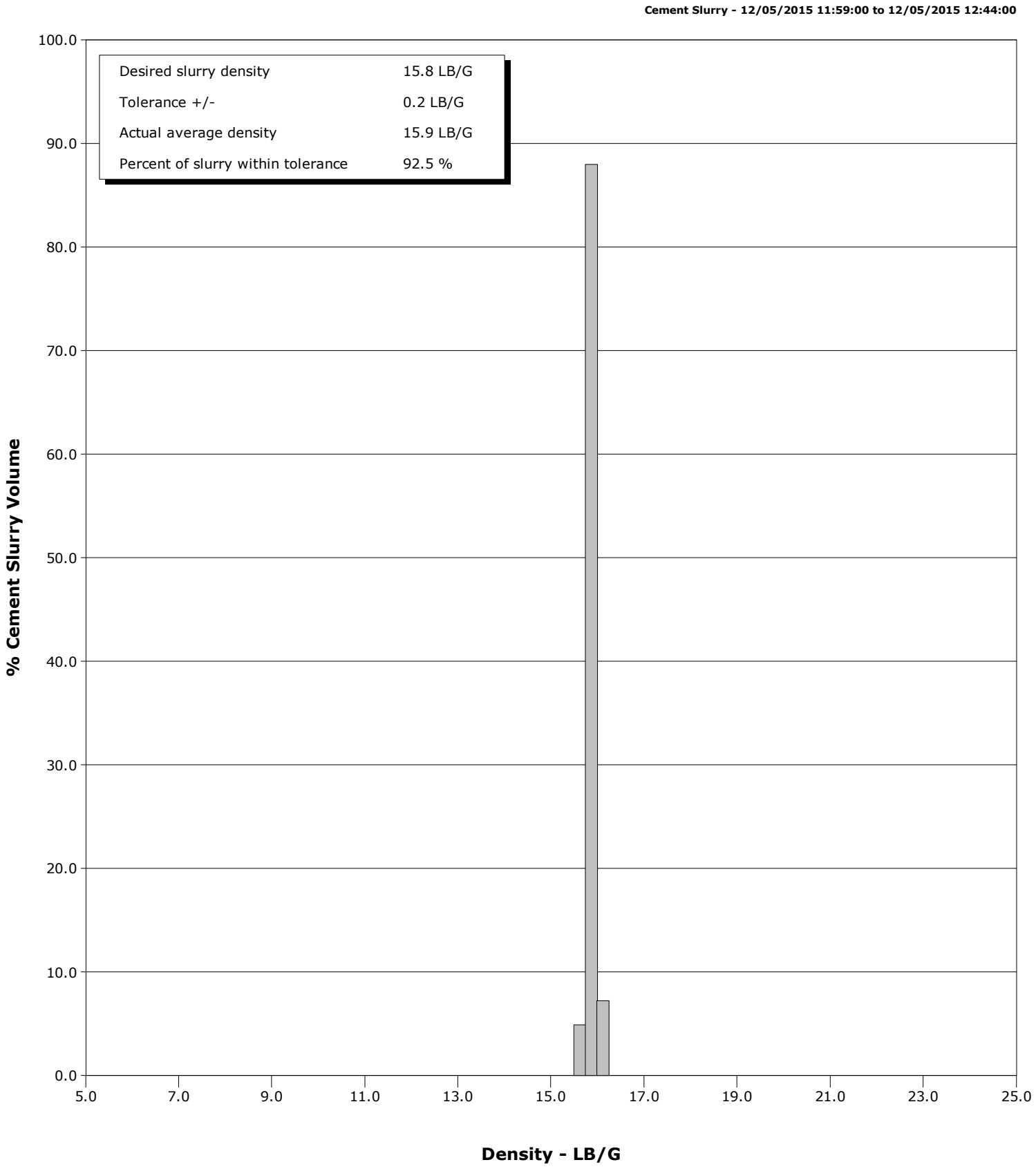
CemCAT v1.6

Well	Fairview 1	**Client**	Extraction Oil
Field	DJ	**SIR No.**	2231964
Engineer	Conley Jensen/ Greg Black	**Job Type**	9 5/8 Surface
Country	**USA**	**Job Date**	**12/5/2015**



Schlumberger Cementing Qa/Qc Density Report

Well	Fairview 1	**Client**	Extraction Oil
Field	DJ	**SIR No.**	2231964
Engineer	Conley Jensen/ Greg Black	**Job Type**	9 5/8 Surface
Country		**Job Date**	



Schlumberger

Cementing Service Report

Customer	Job Number
Extraction Oil	2231964

Well	Location (legal)	Schlumberger Location	Job Start
Fairview 1 1	CWY	CWY	Dec/05/2015

Field	Formation Name/Type	Deviation	Bit Size	Well MD	Well TVD
DJ		0 deg	13.5 in	1565.0 ft	1565.0 ft

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

Well Master	API/UWI
0631657835	05123416670000

Rig Name	Drilled For	Service Via
Savannah 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
1565.0	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		0.0 ft

Tubing Vol.	Casing Vol.	Annular Vol.	Openhole Vol.
bbl	120.0 bbl	bbl	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

Cement Head Type	Single

Job Scheduled For	Arrived on Location	Leave Location
Dec/05/2015 05:00	Dec/05/2015 05:00	Dec/05/2015 15:00

Casing Tools		Squeeze Job	
Shoe Type	Guide	Squeeze Type	
Shoe Depth	1565.0 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	1532.0 ft	Sqz. Total Vol.	bbl

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
12/05/2015	11:04:09	11	0.0	8.34	0.0	Started Acquisition
12/05/2015	11:05:39	11	0.0	8.34	0.0	
12/05/2015	11:06:00	11	0.0	8.34	0.0	Start Job
12/05/2015	11:07:00	11	0.0	8.34	0.0	Rig Up
12/05/2015	11:07:09	11	0.0	8.34	0.0	
12/05/2015	11:08:00	11	0.0	8.34	0.0	Hold Safety Meeting
12/05/2015	11:08:39	11	0.0	8.34	0.0	
12/05/2015	11:10:09	11	0.0	8.34	0.0	
12/05/2015	11:11:39	11	0.0	8.34	0.0	
12/05/2015	11:13:09	11	0.0	8.34	0.0	
12/05/2015	11:14:39	11	0.0	8.34	0.0	
12/05/2015	11:16:09	11	0.0	8.34	0.0	
12/05/2015	11:17:39	11	0.0	8.34	0.0	
12/05/2015	11:19:09	11	0.0	8.34	0.0	
12/05/2015	11:20:39	22	1.0	8.33	0.0	
12/05/2015	11:22:09	89	2.6	8.31	2.5	
12/05/2015	11:23:39	134	0.0	8.31	2.9	
12/05/2015	11:25:09	82	0.0	8.31	2.9	
12/05/2015	11:26:39	124	0.0	8.31	2.9	
12/05/2015	11:28:09	52	0.0	8.31	2.9	
12/05/2015	11:30:00	953	0.0	8.32	2.9	Pressure Test Lines

Well	Field	Job Start	Customer	Job Number
Fairview 1 1	DJ	Dec/05/2015	Extraction Oil	2231964

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
12/05/2015	11:31:09	846	0.0	8.31	2.9	
12/05/2015	11:32:39	3197	0.0	8.32	2.9	
12/05/2015	11:33:00	3181	0.0	8.31	2.9	High 3100 PSI = Good
12/05/2015	11:34:09	3151	0.0	8.32	2.9	
12/05/2015	11:35:39	3118	0.0	8.31	2.9	
12/05/2015	11:36:00	214	0.0	8.31	2.9	Pump 20 BBLS H2O
12/05/2015	11:37:09	45	0.0	8.31	2.9	
12/05/2015	11:38:39	108	1.9	8.31	3.9	
12/05/2015	11:40:09	105	1.9	8.31	6.7	
12/05/2015	11:41:39	112	1.9	8.30	9.5	
12/05/2015	11:43:09	117	1.8	8.30	12.3	
12/05/2015	11:44:39	119	1.8	8.29	15.0	
12/05/2015	11:46:09	76	0.0	8.29	16.1	
12/05/2015	11:47:39	114	1.8	8.29	18.2	
12/05/2015	11:49:09	85	0.0	8.29	20.7	
12/05/2015	11:50:39	72	0.0	8.29	0.0	
12/05/2015	11:52:09	74	0.0	8.29	0.0	
12/05/2015	11:53:39	92	0.0	8.29	0.0	
12/05/2015	11:55:09	123	0.6	14.78	0.3	
12/05/2015	11:56:39	155	2.0	15.15	2.6	
12/05/2015	11:58:09	152	2.2	15.47	5.8	
12/05/2015	11:59:00	154	2.3	15.62	7.7	Start Cement Slurry
12/05/2015	11:59:39	153	2.4	15.73	9.2	
12/05/2015	12:00:00	153	2.4	15.79	10.1	Pump 210 BBLS 15.8 PPG Slurry
12/05/2015	12:01:09	151	2.5	15.96	12.9	
12/05/2015	12:02:39	155	2.7	15.86	16.9	
12/05/2015	12:04:09	166	3.1	15.85	21.7	
12/05/2015	12:05:39	183	3.2	15.88	29.1	
12/05/2015	12:07:09	217	3.3	15.92	36.5	
12/05/2015	12:08:39	173	3.1	15.95	43.8	
12/05/2015	12:10:09	169	3.1	15.95	51.3	
12/05/2015	12:11:39	172	3.1	15.94	58.8	
12/05/2015	12:13:09	209	3.7	15.66	66.3	
12/05/2015	12:14:39	212	3.6	15.89	73.8	
12/05/2015	12:15:00	194	3.4	15.87	75.5	SKS = 1020 Y = 1.16
12/05/2015	12:16:09	203	3.4	15.87	81.3	
12/05/2015	12:17:39	189	3.3	15.83	88.7	
12/05/2015	12:19:09	186	3.2	15.89	96.2	
12/05/2015	12:20:39	187	3.3	15.79	103.7	
12/05/2015	12:22:09	192	3.3	15.92	111.2	
12/05/2015	12:23:39	193	3.3	15.98	118.7	
12/05/2015	12:25:09	196	3.3	15.99	126.1	
12/05/2015	12:26:39	183	3.2	16.00	133.6	
12/05/2015	12:28:09	181	3.0	16.01	141.1	
12/05/2015	12:29:39	180	2.9	15.98	148.6	
12/05/2015	12:30:00	179	2.9	15.94	150.3	Take Dry Sample = 009091
12/05/2015	12:31:09	180	3.0	15.86	156.1	
12/05/2015	12:32:39	179	3.0	15.90	163.5	
12/05/2015	12:34:09	175	3.0	15.85	171.0	
12/05/2015	12:35:39	175	3.0	15.81	178.5	
12/05/2015	12:37:09	173	3.0	15.96	186.0	
12/05/2015	12:38:39	183	3.1	15.98	193.5	
12/05/2015	12:40:09	184	3.1	15.95	200.9	
12/05/2015	12:41:39	157	3.7	15.94	208.4	

Well	Field	Job Start	Customer	Job Number
Fairview 1 1	DJ	Dec/05/2015	Extraction Oil	2231964

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
12/05/2015	12:44:00	159	3.7	15.94	220.1	End Tail Slurry
12/05/2015	12:44:39	202	3.6	15.93	223.4	
12/05/2015	12:46:09	79	0.0	16.08	0.0	
12/05/2015	12:47:39	80	0.0	16.25	0.0	
12/05/2015	12:49:09	83	0.0	12.15	0.0	
12/05/2015	12:50:39	71	0.0	10.66	0.0	
12/05/2015	12:52:00	142	4.1	9.09	1.9	Drop Top Plug
12/05/2015	12:52:09	142	4.2	8.69	2.2	
12/05/2015	12:53:39	118	3.6	9.57	5.2	
12/05/2015	12:55:09	119	3.9	8.54	8.1	
12/05/2015	12:56:39	92	4.2	8.39	11.0	
12/05/2015	12:57:00	92	4.3	8.31	11.7	Displace 118 BBLS H2O
12/05/2015	12:58:09	106	0.0	8.33	14.6	
12/05/2015	12:59:39	150	5.0	8.30	23.9	
12/05/2015	13:01:09	134	4.2	8.30	33.3	
12/05/2015	13:02:39	135	2.7	8.30	42.6	
12/05/2015	13:04:09	263	3.6	8.30	49.3	
12/05/2015	13:05:39	448	3.5	8.30	55.8	
12/05/2015	13:07:09	305	2.5	8.30	61.8	
12/05/2015	13:08:39	385	3.8	8.30	68.2	
12/05/2015	13:10:09	418	4.0	8.31	74.8	
12/05/2015	13:11:39	480	4.0	8.31	82.0	
12/05/2015	13:13:09	562	4.0	8.31	89.2	
12/05/2015	13:14:39	609	4.0	8.31	96.5	
12/05/2015	13:16:09	672	4.0	8.31	103.7	
12/05/2015	13:17:39	721	4.0	8.31	110.9	
12/05/2015	13:19:09	746	3.7	8.31	117.2	
12/05/2015	13:20:39	760	3.7	8.31	122.9	
12/05/2015	13:22:09	723	2.5	8.31	128.4	
12/05/2015	13:23:39	683	2.3	8.31	132.1	
12/05/2015	13:25:00	1445	0.2	8.31	135.2	End Displacement
12/05/2015	13:25:09	1440	0.0	8.31	135.2	
12/05/2015	13:26:39	1436	0.0	8.31	135.2	
12/05/2015	13:28:00	37	0.0	8.31	135.2	Floats Held
12/05/2015	13:28:09	36	0.0	8.31	135.2	
12/05/2015	13:29:39	221	1.1	8.31	139.3	
12/05/2015	13:31:09	50	0.0	8.13	141.3	
12/05/2015	13:32:39	359	0.0	-0.04	142.6	
12/05/2015	13:34:09	45	0.0	-0.01	143.8	

Well	Field	Job Start	Customer	Job Number
Fairview 1 1	DJ	Dec/05/2015	Extraction Oil	2231964

Post Job Summary

Average Pump Rates, bbl/min				Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2

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

Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp		
%	211.0 bbl	bbl	78 degF	Cement Circulated to Surface? [X]	Volume 70.0 bbl
				Washed Thru Perfs [ ]	To ft

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

Schlumberger Service Quality Evaluation

Client:	Extraction Oil
Field:	DJ
Rig:	Savannah 802
Well:	Fairview 1
Service Line:	Cementing
Job Type:	9 5/8 Surface

Service Order #:	
Date:	Dec/05/2015
Operating Time (hh:mm):	00:00
Client Rep:	Shawn Mcinitre
Schlumberger Engineer:	Conley Jensen/ Greg Black
Schlumberger FSM:	

Main Objective:

To be completed by Company Rep. Please answer Y (Yes) or N (No) and add any comments below.

		Score	Yes / No	Result
1	**HSE**			
1a	Free of lost time injury and compliance with SLB and loc. spec. HSE practice	5	yes ☐ no ☒	0
1b	Free of environmental spill or non-compliant discharge	5	yes ☐ no ☒	0
1c	Wellsite left clean	4	yes ☐ no ☒	0
			Sub-total	0%
2	**Design / Preparation**			
2a	Program incl. job simulation (CemCADE) & pump schedule / tool hydraulic calcs	3	yes ☐ no ☒	0
2b	Equipment maintenance schedule completed / Green tagged	2	yes ☐ no ☒	0
2c	All materials and equipment required for job/contingency checked & on location	2	yes ☐ no ☒	0
2d	Safety / pre-job meeting conducted with all involved present	2	yes ☐ no ☒	0
			Sub-total	0%
3	**Execution**			
3a	Lost time < 30 mins	3	yes ☐ no ☒	0
3b	Equipment pressure tested succesfully	3	yes ☐ no ☒	0
3c	All key parameters monitored and recorded accurately (Pressure, Rate, Density)	2	yes ☐ no ☒	0
3d	Plugs / darts released and tested succesfully	2	yes ☐ no ☒	0
3e	Density variation met expectations	2	yes ☐ no ☒	0
3f	Personnel performed as per expectations	2	yes ☐ no ☒	0
3g	Equipment performed as per expectations	2	yes ☐ no ☒	0
3h	Job pumped as per design	3	yes ☐ no ☒	0
3i	Did job start on time	2	yes ☐ no ☒	0
3j	Free of Operational failures (screen out, Cementing Example, etc.)	3	yes ☐ no ☒	0
			Sub-total	0%
4	**Evaluation**			
4a	Main job objective achieved with no consequential non-productive time	10	yes ☐ no ☒	0
			Sub-total	0%

Total 0%

Comments: (Please include a brief explanation for a "NO" response and summarize any innovations attempted on this well.)

Client:	**Schlumberger:**
Client Signature:	**Schlumberger Signature:**