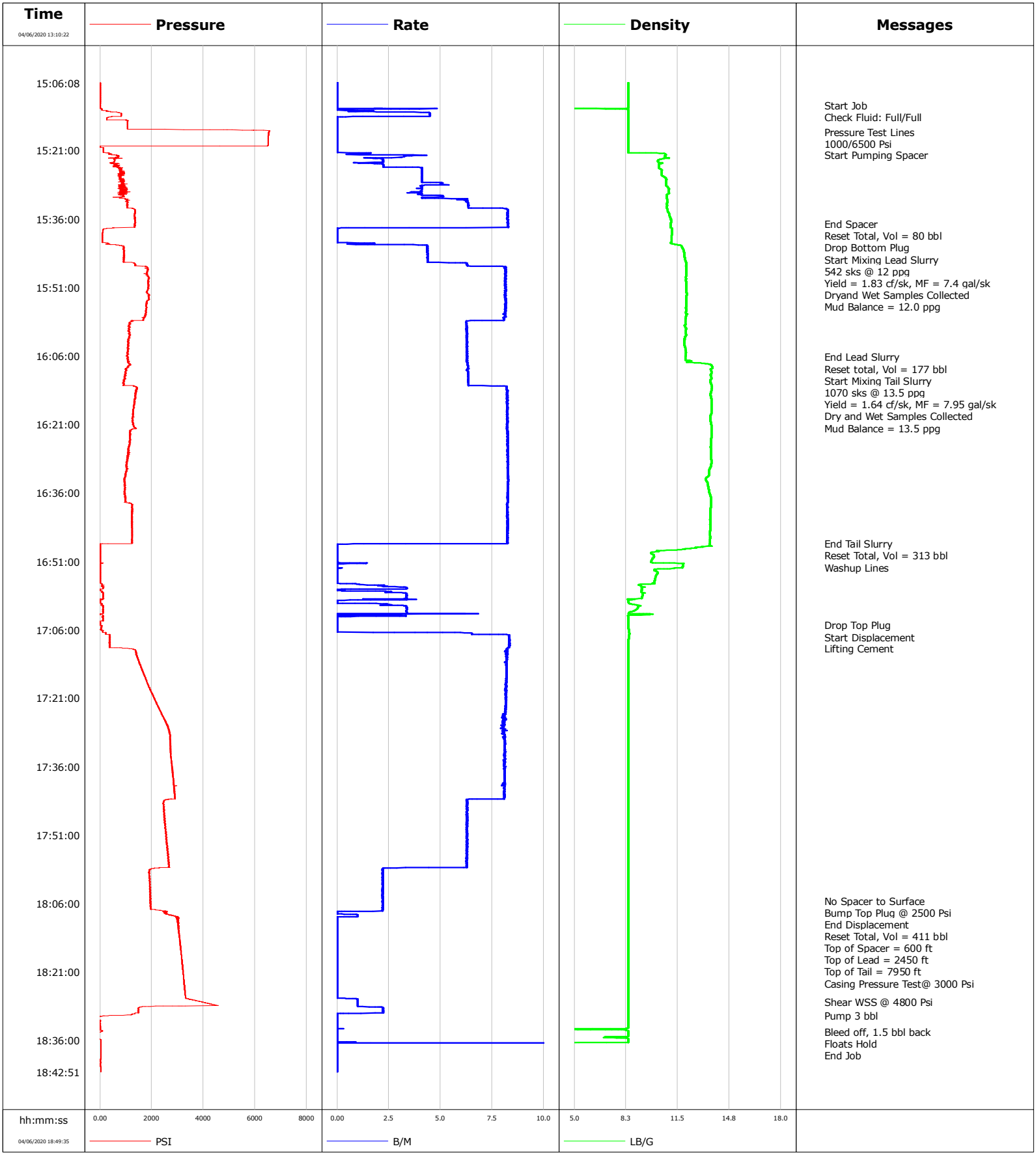
Schlumberger

Cementing Job Report

Well	DAMORE 18-6HZ	**Client**	ANADARKO
Field	DJ	**SIR No.**	EAJ7-01273
Engineer	Bharatsai Alla	**Job Type**	5.5" Production
Country	United States	**Job Date**	04-06-2020



Schlumberger Cementing Qa/Qc Density Report

Well	DAMORE 18-6HZ	**Client**	ANADARKO
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Engineer	Bharatsai Alla	**Job Type**	5.5" Production
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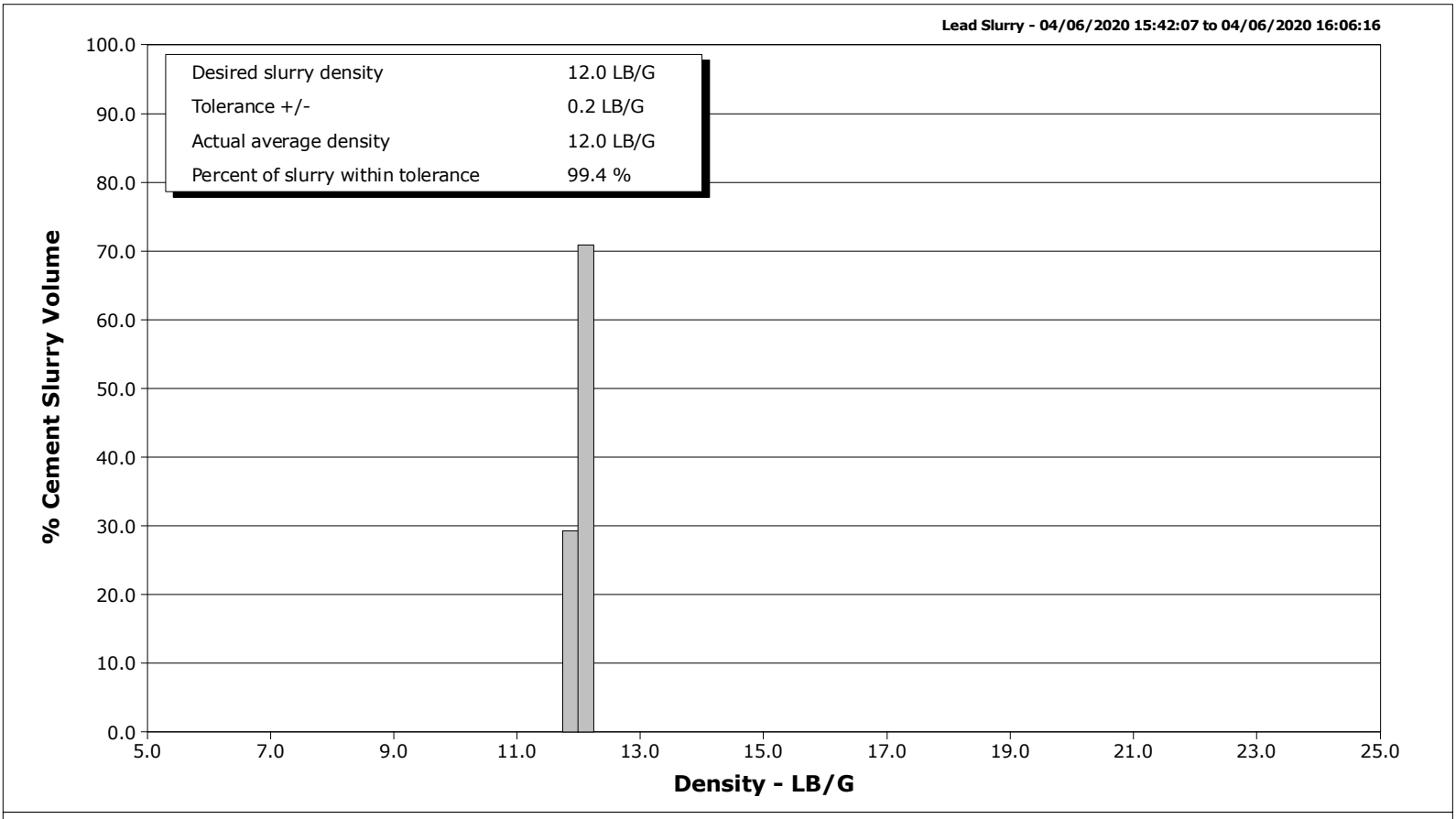

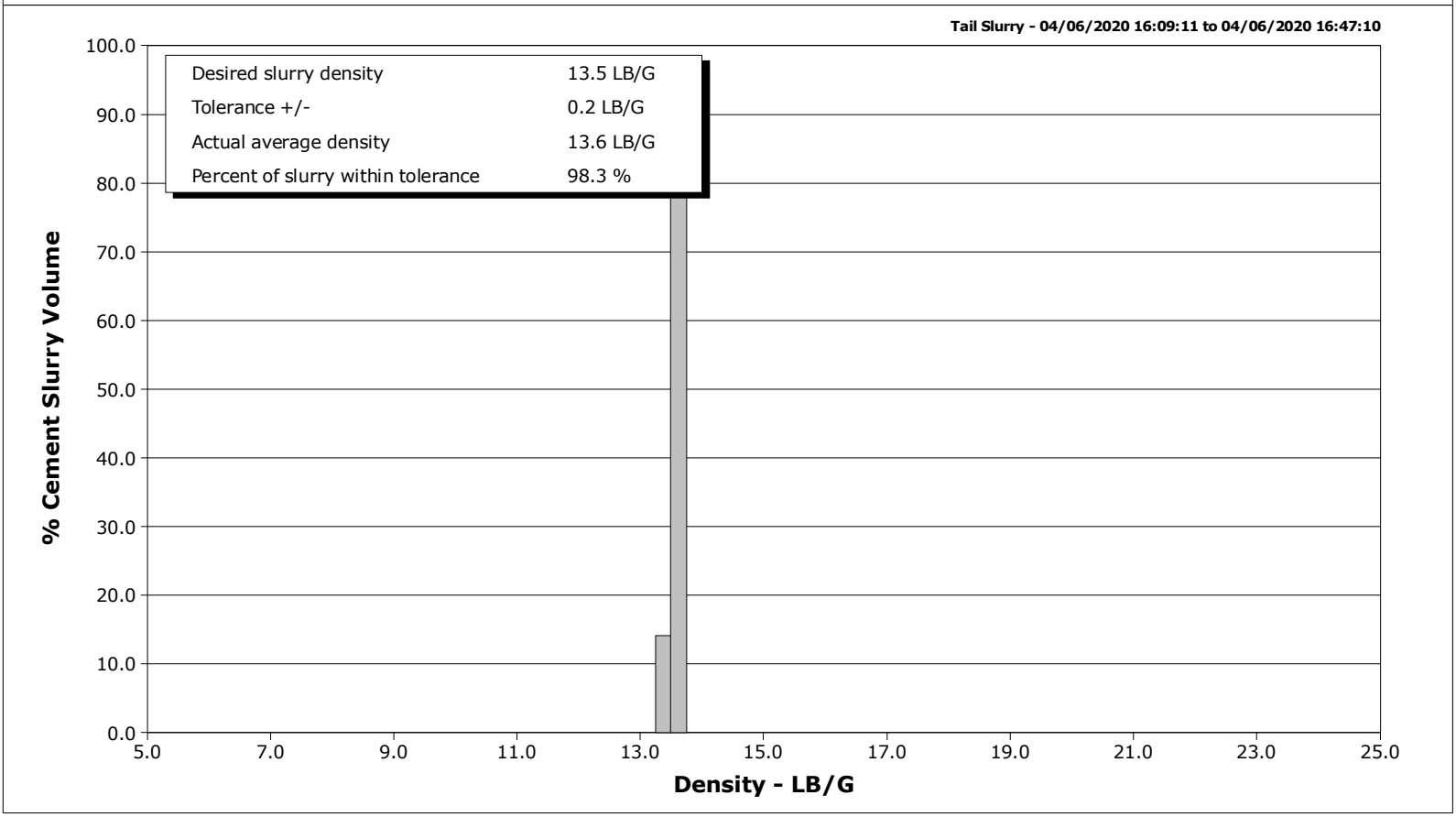

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Cementing Service Report

Customer	Job Number
ANADARKO	EAJ7-01273

Well	Location (legal)	Schlumberger Location	Job Start
DAMORE 18-6HZ	Weld		Apr/06/2020

Field	Formation Name/Type	Deviation	Bit Size	Well MD	Well TVD
DJ		deg	7.9 in	17692.0 ft	ft

County	State/Province	BHP	BHST	BHCT	Pore Press. Gradient
WELD	COLORADO	psi	degF	degF	lb/gal

Well Master	API/UWI
5.5" Production	05123507760000

Rig Name	Drilled For	Service Via
PD 564		Land

Offshore Zone	Well Class	Well Type
	New	Development

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

Service Line	Job Type
Cementing	5.5" Production

Max. Allowed Tub. Press	Max. Allowed Ann. Press	WH Connection
psi	psi	

Service Instructions

9 5/8" 36# Previous Casing: 1,901'
7 7/8" OH to TD
OH Excess: 4%
Top of Lead Cement: 2,500'
Top of Tail Cement: 8,000'
TD: 17,738' (7,193')
Temp Gradient 2.3 degF/100ft
Bring 5 1/2" Head (Double Plug),
Bowls, Top and Bottom Plugs
Bring Defoamer, 400 lbs Sugar, and

Casing/Liner

Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
1910.0	9.6	36.0	J55	
17692.0	5.5	17.0	P110	

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	411.0 bbl		ft

Tubing Vol.	Casing Vol.	Annular Vol.	Openhole Vol.
bbl	411.0 bbl	600.0 bbl	bbl

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

Lift Pressure	Pipe Rotated	Pipe Reciprocated
2000 psi	☐	☐

No. Centralizers	Top Plugs	Bottom Plugs
	1	1

Cement Head Type
Double

Job Scheduled For	Arrived on Location	Leave Location
Apr/06/2020 10:00	Apr/06/2020 10:00	Apr/06/2020 21:00

Casing Tools

Shoe Type	Float
Shoe Depth	17692.0 ft
Stage Tool Type	
Stage Tool Depth	ft
Collar Type	Float
Collar Depth	17690.0 ft

Squeeze Job

Squeeze Type	
Tool Type	
Tool Depth	ft
Tail Pipe Size	in
Tail Pipe Depth	ft
Sqz. Total Vol.	bbl

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
04/06/2020	15:11:00	-0	0.0	8.39	0.0	Start Job
04/06/2020	15:12:00	74	0.3	8.36	0.5	Check Fluid: Full/Full
04/06/2020	15:17:00	6532	0.0	8.39	5.5	Pressure Test Lines
04/06/2020	15:18:00	6511	0.0	8.38	5.5	1000/6500 Psi
04/06/2020	15:22:00	656	3.2	10.77	6.2	Start Pumping Spacer
04/06/2020	15:37:03	1328	8.3	11.06	82.8	End Spacer
04/06/2020	15:38:00	471	0.2	11.11	90.0	Reset Total, Vol = 80 bbl
04/06/2020	15:40:00	84	0.0	11.12	90.0	Drop Bottom Plug
04/06/2020	15:42:07	893	4.4	11.76	92.6	Start Mixing Lead Slurry
04/06/2020	15:43:11	950	4.4	11.89	97.3	542 sks @ 12 ppg
04/06/2020	15:44:12	929	4.4	11.93	101.7	Yield = 1.83 cf/sk, MF = 7.4 gal/sk
04/06/2020	15:45:52	1351	6.3	12.05	109.6	Dryand Wet Samples Collected
04/06/2020	15:47:53	1830	8.1	12.05	125.1	Mud Balance = 12.0 ppg
04/06/2020	16:06:16	1060	6.3	11.98	259.7	End Lead Slurry
04/06/2020	16:06:19	1080	6.3	11.98	260.0	Reset total, Vol = 177 bbl
04/06/2020	16:09:11	1003	6.3	13.60	278.1	Start Mixing Tail Slurry
04/06/2020	16:10:21	993	6.3	13.58	285.4	1070 sks @ 13.5 ppg
04/06/2020	16:10:52	1003	6.3	13.62	288.7	Yield = 1.64 cf/sk, MF = 7.95 gal/sk
04/06/2020	16:10:55	988	6.3	13.61	289.0	Dry and Wet Samples Collected
04/06/2020	16:11:00	981	6.3	13.62	289.6	Mud Balance = 13.5 ppg
04/06/2020	16:47:10	31	3.3	13.49	584.4	End Tail Slurry

Well	Field	Job Start	Customer	Job Number
DAMORE 18-6HZ	DJ	Apr/06/2020	ANADARKO	EAJ7-01273

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
04/06/2020	16:51:00	13	0.0	9.83	584.6	Washup Lines
04/06/2020	17:05:00	4	0.0	8.39	602.3	Drop Top Plug
04/06/2020	17:06:43	223	6.4	8.45	603.1	Start Displacement
04/06/2020	17:10:04	1055	8.2	8.40	630.4	Lifting Cement
04/06/2020	18:05:26	1967	2.2	8.39	1009.3	No Spacer to Surface
04/06/2020	18:07:54	2461	0.0	8.39	1014.3	Bump Top Plug @ 2500 Psi
04/06/2020	18:08:00	2584	0.0	8.39	1014.3	End Displacement
04/06/2020	18:08:01	2476	0.0	8.39	1014.3	Reset Total, Vol = 411 bbl
04/06/2020	18:08:05	2583	0.0	8.39	1014.3	Top of Spacer = 600 ft
04/06/2020	18:08:07	2609	0.0	8.39	1014.3	Top of Lead = 2450 ft
04/06/2020	18:08:10	2541	0.0	8.39	1014.3	Top of Tail = 7950 ft
04/06/2020	18:09:25	3023	0.0	8.39	1014.9	Casing Pressure Test@ 3000 Psi
04/06/2020	18:27:30	3918	1.0	8.39	1015.6	Shear WSS @ 4800 Psi
04/06/2020	18:30:31	413	0.0	8.39	1019.8	Pump 3 bbl
04/06/2020	18:34:00	64	0.0	8.38	1019.8	Bleed off, 1.5 bbl back
04/06/2020	18:35:00	-1	0.0	8.38	1019.8	Floats Hold

Post Job Summary

Average Pump Rates, bbl/min				Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2
6.5			8.3	490.0	0.0	80.0	

Treating Pressure Summary, psi					Breakdown Fluid		
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density
6575	0	991	2500			bbl	lb/gal

Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp		
%	0.0 bbl	411.0 bbl	75 degF	Cement Circulated to Surface? ☐	Volume bbl
				Washed Thru Perfs ☐	To ft

Customer or Authorized Representative	Schlumberger Supervisor	Circulation Lost	Job Completed
James Adkins	Bharatsai Alla	☐	☒
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