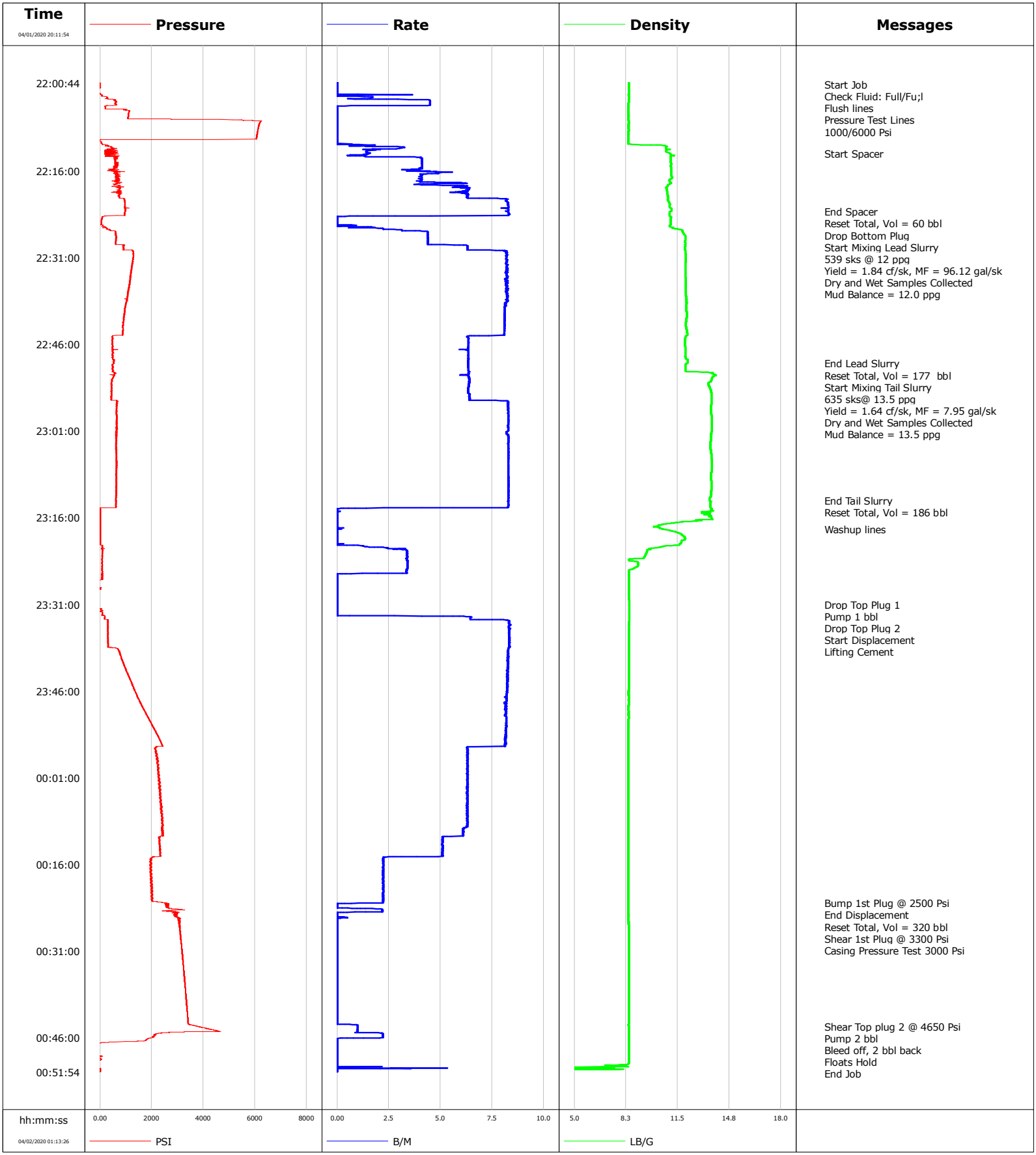
Schlumberger

Cementing Job Report

CemCAT v1.7

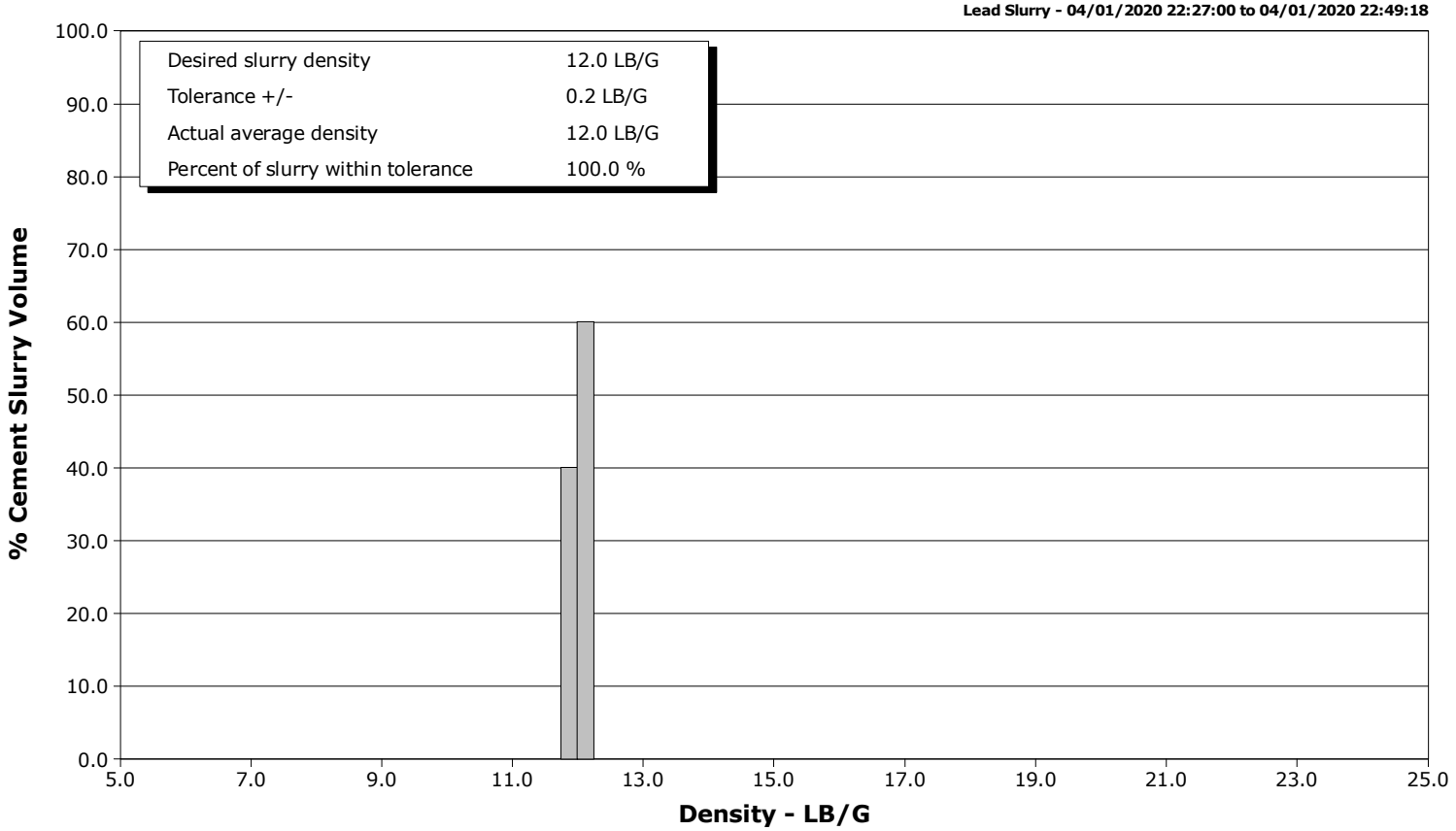
Well	MAE J 8-11HZ	**Client**	ANADARKO
Field	DJ Basin	**SIR No.**	EAJ7-01272
Engineer	Bharatsai Alla	**Job Type**	5.5" Production
Country	United States	**Job Date**	04-01-2020



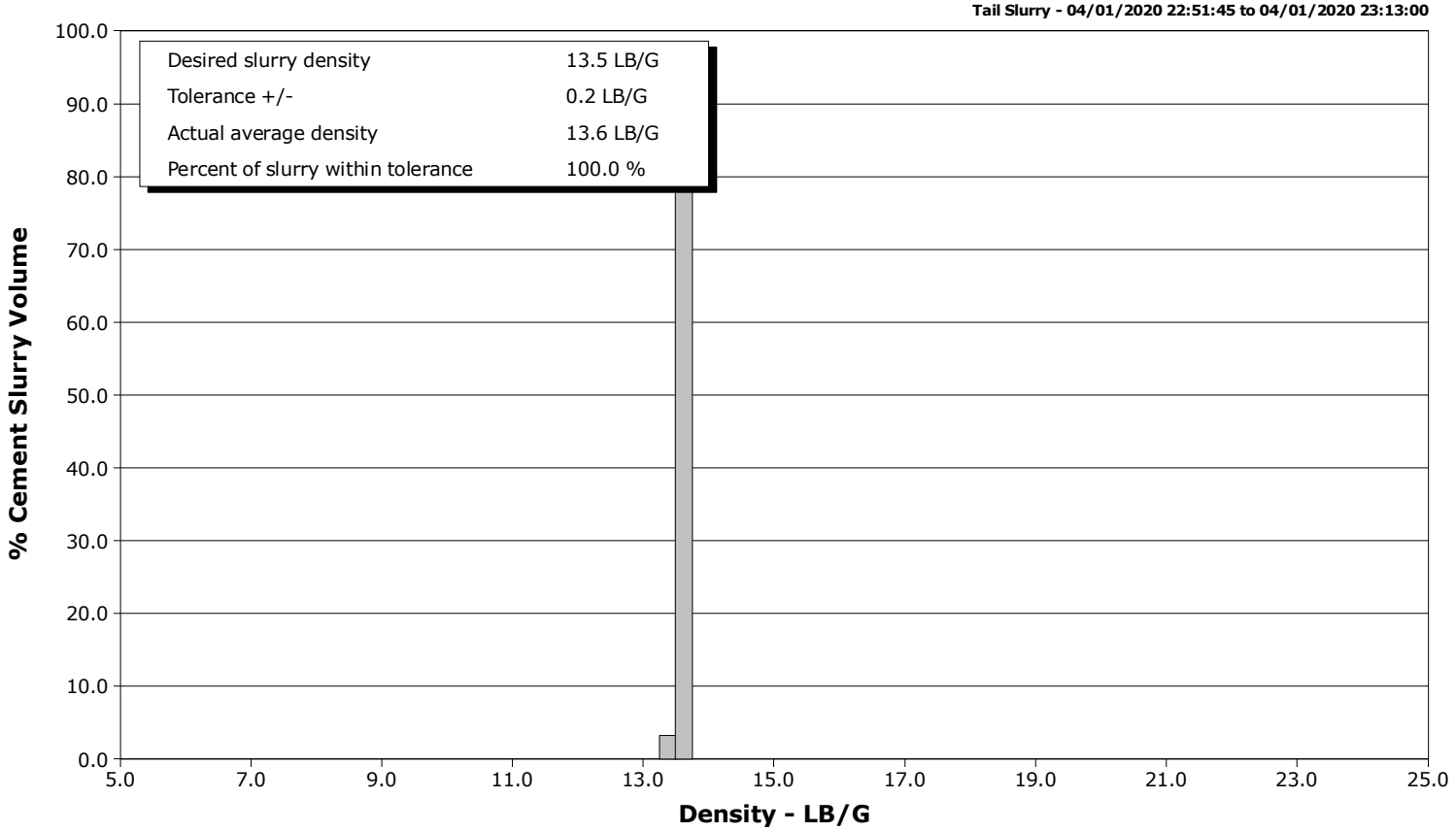
Schlumberger Cementing Qa/Qc Density Report

Well	MAE J 8-11HZ	**Client**	ANADARKO
Field	DJ Basin	**SIR No.**	EAJ7-01272
Engineer	Bharatsai Alla	**Job Type**	5.5" Production
Country	United States	**Job Date**	04-01-2020

Lead Slurry - 04/01/2020 22:27:00 to 04/01/2020 22:49:18



Tail Slurry - 04/01/2020 22:51:45 to 04/01/2020 23:13:00



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Cementing Service Report

Customer	Job Number
ANADARKO	EAJ7-01272

Well	Location (legal)	Schlumberger Location	Job Start
MAE J 8-11HZ	Weld		Apr/01/2020

Field	Formation Name/Type	Deviation	Bit Size	Well MD	Well TVD
DJ Basin		90 deg	7.9 in	13748.0 ft	ft

County	State/Province	BHP	BHST	BHCT	Pore Press. Gradient
Weld	Colorado	psi	230 degF	230 degF	lb/gal

Well Master	API/UWI
5.5" Production	05123505170000

Rig Name	Drilled For	Service Via
P461		Land

Offshore Zone	Well Class	Well Type
	New	Development

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

Service Line	Job Type
Cementing	5.5" Production

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

Casing/Liner

Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
1925.0	9.6	36.0	J55	
13748.0	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

Service Instructions

9 5/8" 36# Previous Casing: 1,925'
7 7/8" OH : 4% Excess
Top of Lead Cement: 2,500'
Top of Tail Cement: 8,000'
TD: 13,776' (7,843')
Temp Gradient 2.3 degF/100ft
Bring 5 1/2" Head (Double Plug),
Bowls, Top and Bottom Plugs
Bring Defoamer, 400 lbs Sugar, and
CemPRIME SCRUB Surfactant and

Treat Down	Displacement	Packer Type	Packer Depth
Casing	320.0 bbl		ft

Tubing Vol.	Casing Vol.	Annular Vol.	Openhole Vol.
bbl	320.0 bbl	bbl	bbl

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

Lift Pressure	Pipe Rotated	Pipe Reciprocated
2000 psi		

No. Centralizers	Top Plugs	Bottom Plugs
	2	1

Cement Head Type
Double

Job Scheduled For	Arrived on Location	Leave Location
Apr/01/2020 19:30	Apr/01/2020 19:30	Apr/01/2020 03:30

Casing Tools

Shoe Type	Float
Shoe Depth	13748.0 ft
Stage Tool Type	
Stage Tool Depth	ft
Collar Type	Float
Collar Depth	13736.0 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
04/01/2020	20:11:54	98	0.0	8.41	0.0	Started Acquisition
04/01/2020	22:01:00	0	0.0	8.41	3.1	Start Job
04/01/2020	22:02:00	-1	0.0	8.41	3.1	Check Fluid: Full/Fu;l
04/01/2020	22:06:00	1104	0.0	8.40	9.0	Pressure Test Lines
04/01/2020	22:07:00	1080	0.0	8.40	9.0	1000/6000 Psi
04/01/2020	22:13:00	546	1.6	11.01	12.1	Start Spacer
04/01/2020	22:23:00	960	8.1	11.08	65.9	End Spacer
04/01/2020	22:24:00	91	0.0	11.07	72.5	Reset Total, Vol = 60 bbl
04/01/2020	22:25:00	42	0.0	11.06	72.5	Drop Bottom Plug
04/01/2020	22:27:00	595	4.4	11.90	76.9	Start Mixing Lead Slurry
04/01/2020	22:28:00	619	4.4	11.97	81.2	539 sks @ 12 ppg
04/01/2020	22:29:00	909	6.3	11.97	86.0	Yield = 1.84 cf/sk, MF = 96.12 gal/sk
04/01/2020	22:31:00	1285	8.2	12.01	101.0	Mud Balance = 12.0 ppg
04/01/2020	22:49:18	550	6.3	12.06	241.7	End Lead Slurry
04/01/2020	22:50:50	562	6.4	13.14	251.4	Reset Total, Vol = 177 bbl
04/01/2020	22:51:45	510	6.4	13.69	5.3	Start Mixing Tail Slurry
04/01/2020	22:51:48	500	6.4	13.67	5.6	635 sks@ 13.5 ppg
04/01/2020	22:51:50	503	6.4	13.67	5.8	Yield = 1.64 cf/sk, MF = 7.95 gal/sk
04/01/2020	22:51:52	495	6.4	13.66	6.0	Dry and Wet Samples Collected
04/01/2020	22:51:54	507	6.4	13.66	6.2	Mud Balance = 13.5 ppg
04/01/2020	23:13:00	623	8.3	13.51	173.6	End Tail Slurry

Well	Field	Job Start	Customer	Job Number
MAE J 8-11HZ	DJ Basin	Apr/01/2020	ANADARKO	EAJ7-01272

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
04/01/2020	23:18:00	3	0.2	10.58	184.7	Washup lines
04/01/2020	23:31:00	-5	0.0	8.44	200.2	Drop Top Plug 1
04/01/2020	23:32:00	26	0.0	8.44	200.2	Pump 1 bbl
04/01/2020	23:32:20	85	0.0	8.44	200.2	Drop Top Plug 2
04/01/2020	23:33:00	165	0.6	8.44	200.2	Start Displacement
04/01/2020	23:38:42	697	8.3	8.41	21.8	Lifting Cement
04/02/2020	00:22:39	2586	2.2	8.40	293.7	Bump 1st Plug @ 2500 Psi
04/02/2020	00:22:41	2576	2.2	8.40	293.8	End Displacement
04/02/2020	00:23:12	2559	0.0	8.40	293.9	Reset Total, Vol = 320 bbl
04/02/2020	00:25:29	3012	0.0	8.40	295.4	Casing Pressure Test 3000 Psi
04/02/2020	00:44:00	3764	1.0	8.41	295.7	Shear Top plug 2 @ 4650 Psi
04/02/2020	00:45:00	3252	1.0	8.41	296.7	Pump 2 bbl
04/02/2020	00:47:00	-10	0.0	8.41	298.8	Bleed off, 2 bbl back
04/02/2020	00:48:00	-3	0.0	8.41	298.8	Floats Hold
04/02/2020	00:49:00	-5	0.0	8.41	298.8	End Job

Post Job Summary

Average Pump Rates, bbl/min				Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2
6.2			8.4	363.0	0.0	60.0	

Treating Pressure Summary, psi					Breakdown Fluid		
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density
6253	0	866	2500			bbl	lb/gal

Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp		
%	363.0 bbl	320.0 bbl	65 degF	Cement Circulated to Surface? ☐	Volume bbl
				Washed Thru Perfs ☐	To ft

Customer or Authorized Representative	Schlumberger Supervisor	Circulation Lost	Job Completed
Jackie McKinley	Bharatsai Alla	☐	☒
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