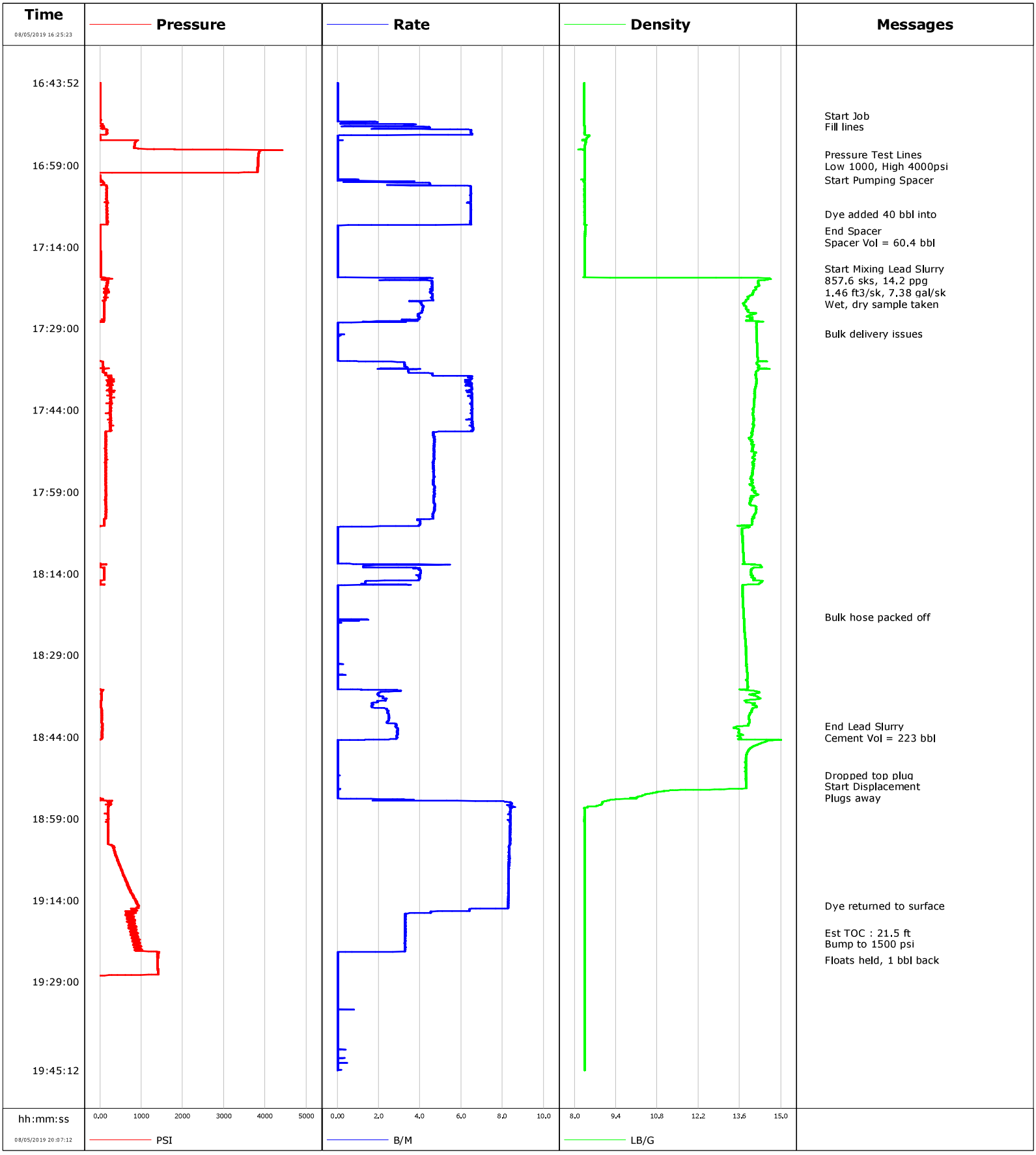
Schlumberger

Cementing Job Report

CemCAT v1.7

Well	Hingley 1F-18H-A167	**Client**	Crestone
Field	DJ	**SIR No.**	EB2L-00841
Engineer	Michael Navoy / Chuck Innis	**Job Type**	Surface
Country	USA	**Job Date**	8/5/19



Schlumberger Cementing Service Report

Customer	Job Number
Crestone	EB2L-00841

Well	Location (legal)	Schlumberger Location	Job Start
Hingley 1F-18H-A167		Cheyenne	Aug/05/2019

Field	Formation Name/Type	Deviation	Bit Size	Well MD	Well TVD
DJ		0 deg	13.5 in	2547.7 ft	2547.7 ft

County	State/Province	BHP	BHST	BHCT	Pore Press. Gradient
Weld	Colorado	psi	115 degF	85 degF	lb/gal
Well Master 00631789988	API/UWI				

Rig Name	Drilled For	Service Via
E122	Oil	Land

Offshore Zone	Well Class	Well Type
	Old	Development

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

Service Line	Job Type
Cementing	Surface

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

Service Instructions
9 5/8 Surface

Casing/Liner

Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
100.0	16.0	55.0	F25	N/A
2548.0	9.6	40.0	J55	8RD

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	190.3 bbl		ft

Tubing Vol.	Casing Vol.	Annular Vol.	Openhole Vol.
bbl	193.3 bbl	226.9 bbl	0.0 bbl

Casing/Tubing Secured ☐	1 Hole Vol. Circulated prior to Cement ☐	Casing Tools	Squeeze Job
Lift Pressure psi		Shoe Type Float	Squeeze Type
Pipe Rotated ☐	Pipe Reciprocated ☐	Shoe Depth 2548.0 ft	Tool Type
No. Centralizers	Top Plugs 1 / Bottom Plugs	Stage Tool Type	Tool Depth ft
Cement Head Type Single		Stage Tool Depth ft	Tail Pipe Size in
Job Scheduled For Aug/05/2019 13:00	Arrived on Location Aug/05/2019 13:00 / Leave Location Aug/05/2019 20:30	Collar Type Float	Tail Pipe Depth ft
		Collar Depth 2509.0 ft	Sqz. Total Vol. bbl

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
08/05/2019	16:25:23	1	0.0	8.33	0.0	Remark
08/05/2019	16:50:00	1	0.0	8.32	0.0	Start Job
08/05/2019	16:52:00	89	4.5	8.34	2.2	Fill lines
08/05/2019	16:57:00	3835	0.0	8.34	10.6	Pressure Test Lines
08/05/2019	16:58:00	3823	0.0	8.34	10.6	Low 1000, High 4000psi
08/05/2019	17:01:42	5	0.0	8.34	10.6	Start Pumping Spacer
08/05/2019	17:08:00	164	6.5	8.34	47.8	Dye added 40 bbl into
08/05/2019	17:11:01	4	0.0	8.35	60.4	End Spacer
08/05/2019	17:11:02	4	0.0	8.35	60.4	Spacer Vol = 60.4 bbl
08/05/2019	17:18:00	17	0.0	8.34	60.4	Start Mixing Lead Slurry
08/05/2019	17:19:00	17	0.0	8.34	60.4	857.6 sks, 14.2 ppg
08/05/2019	17:20:00	50	3.1	14.51	62.1	1.46 ft3/sk, 7.38 gal/sk
08/05/2019	17:21:00	180	4.6	14.24	66.4	Wet, dry sample taken
08/05/2019	17:30:00	-8	0.0	14.16	94.9	Bulk delivery issues
08/05/2019	18:22:00	-9	0.0	13.73	263.4	Bulk hose packed off
08/05/2019	18:42:00	48	2.8	13.58	279.0	End Lead Slurry
08/05/2019	18:43:00	49	2.9	13.56	281.9	Cement Vol = 223 bbl
08/05/2019	18:51:00	-3	0.1	13.80	286.1	Dropped top plug
08/05/2019	18:53:00	-3	0.0	13.82	286.1	Start Displacement
08/05/2019	18:54:00	-3	0.0	10.94	286.2	Plugs away
08/05/2019	19:15:00	943	8.3	8.34	447.9	Dye returned to surface

Well	Field	Job Start	Customer	Job Number
Hingley 1F-18H-A167	DJ	Aug/05/2019	Crestone	EB2L-00841

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
08/05/2019	19:22:00	922	3.3	8.34	475.1	Bump to 1500 psi
08/05/2019	19:25:00	1390	0.0	8.34	479.7	Floats held, 1 bbl back

Post Job Summary

Average Pump Rates, bbl/min				Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2
				223.0		60.4	

Treating Pressure Summary, psi					Breakdown Fluid		
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density
	0		1500			bbl	lb/gal

Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp		
%	0.0 bbl	190.3 bbl	degF	Cement Circulated to Surface? ☐	Volume bbl
				Washed Thru Perfs ☐	To ft

Customer or Authorized Representative	Schlumberger Supervisor		
Company Man	Michael Navoy / Chuck Innis	Circulation Lost ☐	Job Completed ☐
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