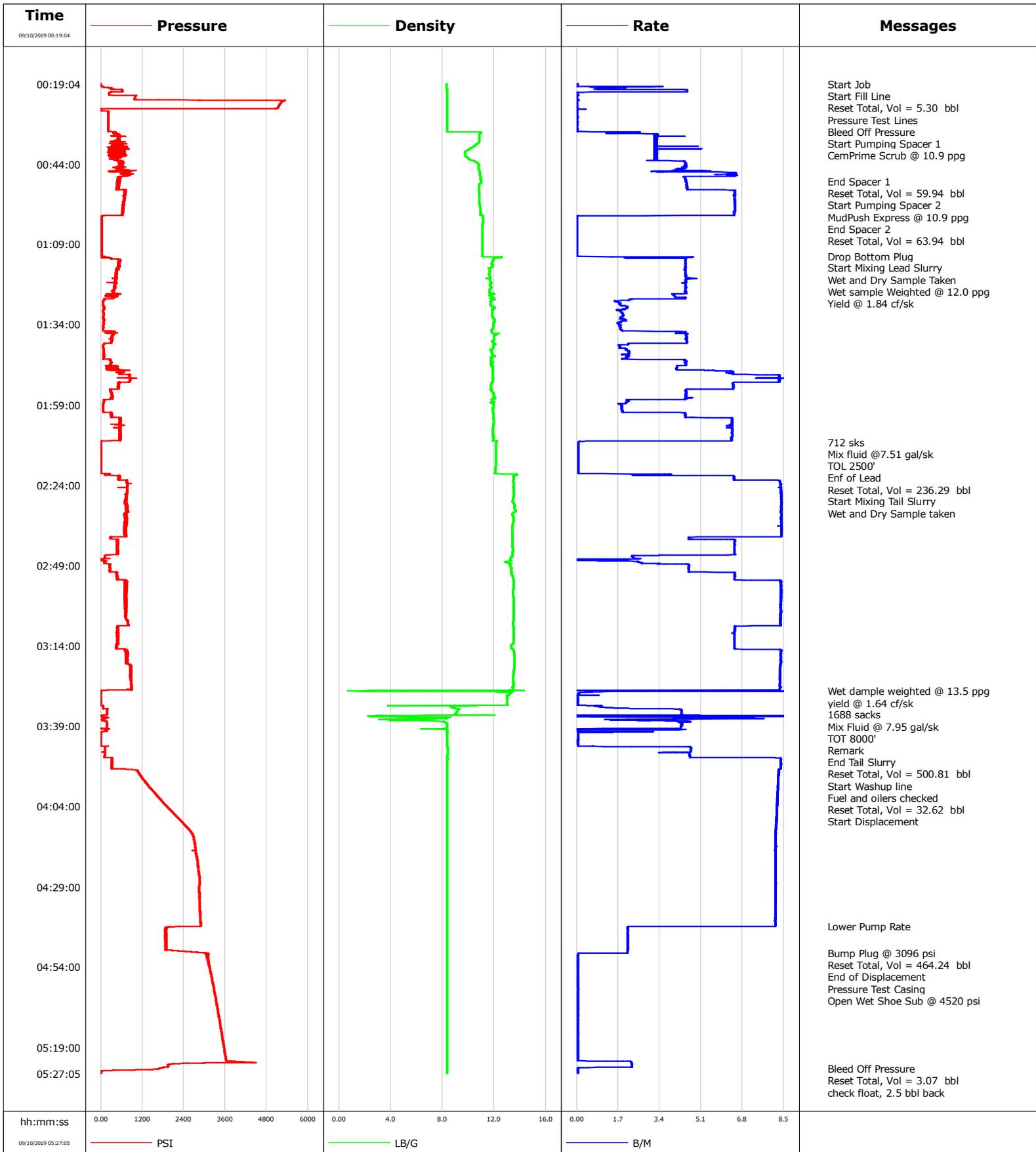


Well	MJOLNIR 3-5HZ	Client	ANADARKO
Field		SIR No.	3050288
Engineer	LAN PHAM	Job Type	PRODUCTION
Country	United States	Job Date	09-10-2019



				Customer			Job Number			
				ANADARKO			3050288			
Well		Location (legal)			Schlumberger Location			Job Start		
MJOLNIR 3-5HZ 3-5HZ								Sep/10/2019		
Field		Formation Name/Type			Deviation	Bit Size		Well MD	Well TVD	
					deg	in		19549.9 ft	7792.0 ft	
County		State/Province			BHP	BHST	BHCT	Pore Press. Gradient		
		CO			psi	230 degF	230 degF	lb/gal		
Well Master		API/UWI								
0065871368		05-123-49766-00								
Rig Name	Drilled For		Service Via		Casing/Liner					
PD 564	Oil and Gas		Land		Depth, ft	Size, in	Weight, lb/ft	Grade	Thread	
Offshore Zone	Well Class		Well Type		1920.0	9.6	36.0	J-55		
	New		Exploration		19549.9	5.5	17.0	P-110		
Drilling Fluid Type		Max. Density	Plastic Viscosity		Tubing/Drill Pipe					
		lb/gal	cP		T/D	Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
Service Line	Job Type									
Cementing	PRODUCTION									
Max. Allowed Tub. Press	Max. Allowed Ann. Press		WH Connection		Perforations/Open Hole					
psi	psi		5 1/2 8rd		Top, ft	Bottom, ft	shot/ft	No. of Shots	Total Interval	
Service Instructions 9 5/8" 36# Previous Casing: 1,921' 8 1/2" OH to TD OH Excess: 4% Top of Lead Cement: 2,500' Top of Tail Cement: 8,000' TD: 19,613' (7,792') Temp Gradient 2.3 degF/100ft					ft	ft			ft	
					ft	ft			Diameter	
					ft	ft			in	
					Treat Down		Displacement		Packer Type	
Casing		454.0 bbl				ft				
Tubing Vol.		Casing Vol.		Annular Vol.		Openhole Vol.				
bbl		bbl		bbl		bbl				
Casing/Tubing Secured	1 Hole Vol. Circulated prior to Cement									
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									
Lift Pressure	1900 psi			Shoe Type		FLOAT		Squeeze Job		
Pipe Rotated	<input type="checkbox"/>	Pipe Reciprocated		<input type="checkbox"/>	Shoe Depth		19549.9 ft		Tool Type	
No. Centralizers	Top Plugs	1	Bottom Plugs	1	Stage Tool Type		Tool Depth			
							ft			
Cement Head Type		Double			Stage Tool Depth		ft		Tail Pipe Size	
									in	
Job Scheduled For		Arrived on Location		Leave Location		Collar Type		Float		Tail Pipe Depth
Sep/09/2019 17:00		Sep/09/2019 19:30		Sep/10/2019 07:00		Collar Depth		19537.0 ft		Sqz. Total Vol.
									bbl	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Pressure PSI	Message				
09/10/2019	00:19:04	-1	0.0	8.34	-1	Started Acquisition				
09/10/2019	00:19:05	-1	0.0	8.34	-2	Start Job				
09/10/2019	00:19:06	-1	0.0	8.34	-1	Start Fill Line				
09/10/2019	00:25:17	5188	0.0	8.36	5187	Reset Total, Vol = 5.30 bbl				
09/10/2019	00:25:25	5180	0.0	8.36	5179	Pressure Test Lines				
09/10/2019	00:26:44	5075	0.0	8.36	5076	Bleed Off Pressure				
09/10/2019	00:34:51	513	3.3	10.85	533	Start Pumping Spacer 1				
09/10/2019	00:34:52	518	3.3	10.85	510	CemPrime Scrub @ 10.9 ppg				
09/10/2019	00:49:24	569	4.5	10.99	524	End Spacer 1				
09/10/2019	00:49:26	461	4.5	10.99	537	Reset Total, Vol = 59.94 bbl				
09/10/2019	00:49:27	541	4.5	10.99	507	Start Pumping Spacer 2				
09/10/2019	00:49:30	478	4.5	10.99	545	MudPush Express @ 10.9 ppg				
09/10/2019	01:00:17	22	0.0	11.13	25	End Spacer 2				
09/10/2019	01:00:20	20	0.0	11.12	23	Reset Total, Vol = 63.94 bbl				
09/10/2019	01:12:34	17	0.0	11.08	9	Drop Bottom Plug				
09/10/2019	01:13:22	315	3.5	11.98	330	Start Mixing Lead Slurry				
09/10/2019	01:13:23	316	3.9	11.95	318	Wet and Dry Sample Taken				
09/10/2019	01:13:24	292	4.3	11.94	310	Wet sample Weighted @ 12.0 ppg				
09/10/2019	02:10:38	9	0.1	12.16	10	712 sks				
09/10/2019	02:10:39	8	0.1	12.16	9	Mix fluid @7.51 gal/sk				
09/10/2019	02:10:40	8	0.1	12.15	10	TOL 2500'				

Well		Field		Job Start		Customer		Job Number	
MJOLNIR 3-5HZ 3-5HZ				Sep/10/2019		ANADARKO		3050288	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Pressure PSI	Message			
09/10/2019	02:20:14	7	0.1	12.10	13	Reset Total, Vol = 236.29 bbl			
09/10/2019	02:20:30	238	2.2	12.75	237	Start Mixing Tail Slurry			
09/10/2019	02:20:34	219	3.8	13.68	234	Wet and Dry Sample taken			
09/10/2019	03:27:59	5	3.1	1.21	6	Wet dample weighted @ 13.5 ppg			
09/10/2019	03:28:00	5	3.1	0.98	6	TOT 8000'			
09/10/2019	03:28:01	4	2.9	0.85	5	End Tail Slurry			
09/10/2019	03:28:04	3	2.7	0.69	5	Reset Total, Vol = 500.81 bbl			
09/10/2019	03:32:37	62	1.0	5.47	63	Start Washup line			
09/10/2019	03:32:38	58	1.0	8.74	61	Fuel and oilers checked			
09/10/2019	03:44:55	-2	0.1	8.36	1	Reset Total, Vol = 32.62 bbl			
09/10/2019	03:45:03	-3	0.1	8.36	0	Start Displacement			
09/10/2019	04:41:20	2513	7.1	8.36	2517	Lower Pump Rate			
09/10/2019	04:49:41	3064	0.5	8.36	3060	Bump Plug @ 3096 psi			
09/10/2019	04:50:09	3110	0.0	8.36	3085	Reset Total, Vol = 464.24 bbl			
09/10/2019	04:50:10	3046	0.0	8.36	3048	End of Displacement			
09/10/2019	04:50:18	3050	0.0	8.36	3056	Pressure Test Casing			
09/10/2019	04:50:19	3053	0.0	8.36	3055	Open Wet Shoe Sub @ 4520 psi			
09/10/2019	05:25:42	1657	0.0	8.36	1656	Bleed Off Pressure			
09/10/2019	05:26:49	-3	0.0	8.36	-0	Reset Total, Vol = 3.07 bbl			

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl				
Slurry	N2	Mud	Maximum Rate		Total Slurry	Mud	Spacer	N2	
					736.0		117.0		
Treating Pressure Summary, psi					Breakdown Fluid				
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume		Density	
	0		3096			bbl		lb/gal	
Avg. N2 Percent	Designed Slurry Volume		Displacement	Mix Water Temp	Cement Circulated to Surface?		Volume		
%	726.0 bbl		454.0 bbl	68 degF	<input type="checkbox"/>		bbl		
					Washed Thru Perfs		To		
					<input type="checkbox"/>		ft		
Customer or Authorized Representative			Schlumberger Supervisor			Circulation Lost		Job Completed	
JOHN TRUETT			LAN PHAM			-		- <input checked="" type="checkbox"/>	