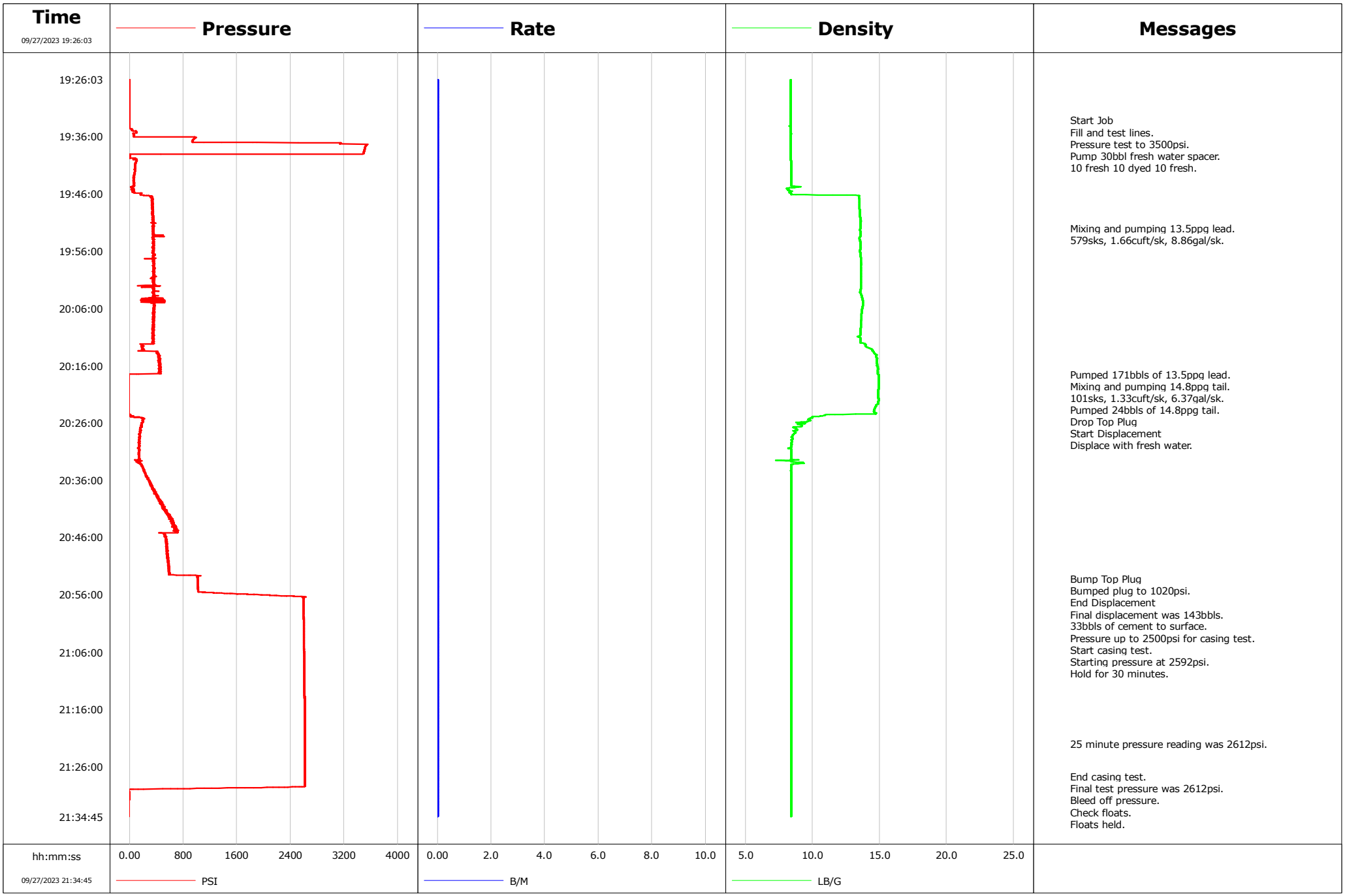
Schlumberger Cementing Job Report

Well	GUTTERSEN FED STATE YY05-765	**Client**	CHEVRON
Field	WATTENBERG	**SIR No.**	EQOI-00046
Engineer	JEFFREY PATTERSON	**Job Type**	SURFACE
Country	United States	**Job Date**	09-27-2023



Schlumberger

Cementing Service Report

Customer	Job Number
CHEVRON	EQOI-00046

Well	Location (legal)	Schlumberger Location	Job Start
GUTTERSEN FED STATE YY05-765	597 FSL 2163 FWL SESW SEC 29 T3N R63W	WINDSOR	Sep/27/2023

Field	Formation Name/Type	Deviation	Bit Size	Well MD	Well TVD
WATTENBERG		deg	13.5 in	1934.0 ft	1934.0 ft

County	State/Province	BHP	BHST	BHCT	Pore Press. Gradient
WELD	Colorado	psi	115 degF	96 degF	lb/gal

Well Master	API/UWI
0064690204	05-123-48647-00-00

Rig Name	Drilled For	Service Via
H&P 517	Oil and Gas	Land

Offshore Zone	Well Class	Well Type
	New	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	CEMENT HEAD

Service Instructions:

Mixing and pumping 13.5ppg lead.
579sks, 1.66cuft/sk, 8.86gal/sk.
Pumped 171bbls of 13.5ppg lead.

Mixing and pumping 14.8ppg tail.
101sks, 1.33cuft/sk, 6.37gal/sk.
Pumped 24bbls of 14.8ppg tail.

Casing/Liner

Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
110.0	16.0	36.94	A-52A	BUTT
1924.1	9.6	36.00	J-55	

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	143.0 bbl		ft

Tubing Vol.	Casing Vol.	Annular Vol.	Openhole Vol.
bbl	146.0 bbl	bbl	bbl

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

Lift Pressure	Pipe Rotated	Pipe Reciprocated
600 psi	☐	☐

No. Centralizers	Top Plugs	Bottom Plugs
	1	

Cement Head Type
Single

Job Scheduled For	Arrived on Location	Leave Location
Sep/27/2023 19:00	Sep/27/2023 19:00	Sep/27/2023 22:00

Casing Tools		Squeeze Job	
Shoe Type	Float	Squeeze Type	
Shoe Depth	1924.0 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	1878.0 ft	Sqz. Total Vol.	bbl

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Backside NULL	Message
09/27/2023	19:26:03	-5	0.0	8.38	0.3	0	Started Acquisition
09/27/2023	19:27:33	-5	0.0	8.38	0.4	0	
09/27/2023	19:29:03	-6	0.0	8.38	0.4	0	
09/27/2023	19:30:33	-5	0.0	8.38	0.4	0	
09/27/2023	19:32:03	-6	0.0	8.38	0.4	0	
09/27/2023	19:33:09	-6	0.0	8.38	0.4	0	Start Job
09/27/2023	19:33:11	-6	0.0	8.38	0.4	0	Fill and test lines.
09/27/2023	19:33:12	-5	0.0	8.38	0.4	0	Pump 30bbl fresh water spacer.
09/27/2023	19:33:33	-6	0.0	8.38	0.4	0	
09/27/2023	19:35:03	92	3.3	8.38	1.5	0	
09/27/2023	19:36:33	948	0.0	8.39	3.8	0	
09/27/2023	19:39:33	0	0.1	8.39	0.0	0	
09/27/2023	19:41:03	78	4.6	8.40	5.3	0	
09/27/2023	19:42:33	78	4.6	8.40	12.2	0	
09/27/2023	19:44:03	57	4.6	8.40	19.1	0	
09/27/2023	19:45:33	43	4.3	8.32	26.4	0	
09/27/2023	19:47:03	349	6.5	13.48	35.5	0	
09/27/2023	19:48:33	334	6.5	13.50	45.3	0	
09/27/2023	19:50:03	350	6.5	13.54	55.0	0	
09/27/2023	19:51:33	343	6.5	13.58	64.8	0	
09/27/2023	19:52:00	360	6.5	13.55	67.7	0	Mixing and pumping 13.5ppg lead.

Well	Field	Job Start	Customer	Job Number
GUTTERSEN FED STATE YY05-765	WATTENBERG	Sep/27/2023	CHEVRON	EQOI-00046

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Backside NULL	Message
09/27/2023	19:53:03	366	6.5	13.56	74.5	0	
09/27/2023	19:54:33	350	6.5	13.55	84.2	0	
09/27/2023	19:56:03	359	6.5	13.54	93.9	0	
09/27/2023	19:57:33	369	6.5	13.61	103.7	0	
09/27/2023	19:59:03	365	6.5	13.62	113.4	0	
09/27/2023	20:00:33	370	6.5	13.61	123.1	0	
09/27/2023	20:02:03	131	5.4	13.59	132.8	0	
09/27/2023	20:03:33	357	6.5	13.60	142.2	0	
09/27/2023	20:05:03	366	6.4	13.76	151.5	0	
09/27/2023	20:06:33	352	6.5	13.67	161.2	0	
09/27/2023	20:08:03	357	6.5	13.62	171.0	0	
09/27/2023	20:09:33	356	6.5	13.58	180.7	0	
09/27/2023	20:11:03	359	6.4	13.51	190.4	0	
09/27/2023	20:12:33	194	4.6	13.92	199.7	0	
09/27/2023	20:14:03	430	6.5	14.72	207.6	0	
09/27/2023	20:15:33	451	6.5	14.78	217.2	0	
09/27/2023	20:17:03	466	6.4	14.87	226.9	0	Pumped 171bbls of 13.5ppg lead.
09/27/2023	20:17:30	-10	1.7	14.87	229.7	0	579sks, 1.66cuft/sk, 8.86gal/sk.
09/27/2023	20:18:00	-12	0.0	14.92	229.7	0	Mixing and pumping 14.8ppg tail.
09/27/2023	20:18:10	-12	0.0	14.92	229.7	0	101sks, 1.33cuft/sk, 6.37gal/sk.
09/27/2023	20:18:33	-13	0.0	14.92	229.7	0	
09/27/2023	20:20:03	-13	0.0	14.91	229.7	0	
09/27/2023	20:21:33	-12	0.0	14.91	229.7	0	
09/27/2023	20:23:00	-12	0.0	14.76	229.8	0	Pumped 24bbls of 14.8ppg tail.
09/27/2023	20:23:03	-13	0.0	14.75	229.8	0	
09/27/2023	20:23:18	-13	0.0	14.67	229.8	0	Drop Top Plug
09/27/2023	20:23:19	-12	0.0	14.67	229.8	0	Start Displacement
09/27/2023	20:23:21	-13	0.0	14.66	229.8	0	Displace with fresh water.
09/27/2023	20:24:33	8	0.0	11.29	229.8	0	
09/27/2023	20:26:03	177	6.6	9.45	236.1	0	
09/27/2023	20:27:33	167	6.5	8.68	245.9	0	
09/27/2023	20:30:33	139	6.5	8.40	265.4	0	
09/27/2023	20:32:03	142	6.5	8.41	275.2	0	
09/27/2023	20:33:33	186	6.4	8.41	285.7	0	
09/27/2023	20:35:03	246	6.4	8.41	295.3	0	
09/27/2023	20:36:33	313	6.4	8.41	305.0	0	
09/27/2023	20:38:03	381	6.4	8.41	314.6	0	
09/27/2023	20:39:33	455	6.4	8.41	324.2	0	
09/27/2023	20:41:03	521	6.4	8.41	333.8	0	
09/27/2023	20:42:33	617	6.4	8.41	343.4	0	
09/27/2023	20:44:03	678	6.4	8.41	353.0	0	
09/27/2023	20:45:33	539	2.3	8.41	361.2	0	
09/27/2023	20:47:03	540	2.3	8.41	364.6	0	
09/27/2023	20:48:33	560	2.3	8.41	368.0	0	
09/27/2023	20:50:03	573	2.3	8.41	371.4	0	
09/27/2023	20:51:33	592	2.2	8.41	374.8	0	
09/27/2023	20:53:03	1015	0.0	8.41	377.4	0	
09/27/2023	20:53:11	1014	0.0	8.41	377.4	0	Bump Top Plug
09/27/2023	20:53:12	1013	0.0	8.41	377.4	0	Bumped plug to 1020psi.
09/27/2023	20:53:14	1013	0.0	8.41	377.4	0	End Displacement
09/27/2023	20:53:16	1016	0.0	8.41	377.4	0	Final displacement was 143bbls.
09/27/2023	20:54:33	1016	0.0	8.41	377.4	0	
09/27/2023	20:55:00	1017	0.0	8.41	377.4	0	Pressure up to 2500psi for casing test.
09/27/2023	20:56:03	1989	1.2	8.41	377.9	0	

Well	Field	Job Start	Customer	Job Number
GUTTERSEN FED STATE YY05-765	WATTENBERG	Sep/27/2023	CHEVRON	EQOI-00046

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Backside NULL	Message
09/27/2023	20:57:00	2593	0.0	8.41	378.3	0	Starting pressure at 2592psi.
09/27/2023	20:57:33	2591	0.0	8.41	378.3	0	
09/27/2023	20:59:03	2592	0.0	8.41	378.3	0	
09/27/2023	21:00:33	2594	0.0	8.41	378.3	0	
09/27/2023	21:02:03	2596	0.0	8.41	378.3	0	
09/27/2023	21:03:33	2598	0.0	8.41	378.3	0	
09/27/2023	21:05:03	2600	0.0	8.41	378.3	0	
09/27/2023	21:06:33	2601	0.0	8.41	378.3	0	
09/27/2023	21:08:03	2603	0.0	8.41	378.3	0	
09/27/2023	21:09:33	2604	0.0	8.41	378.3	0	
09/27/2023	21:11:03	2606	0.0	8.41	378.3	0	
09/27/2023	21:12:33	2607	0.0	8.41	378.3	0	
09/27/2023	21:14:03	2607	0.0	8.41	378.3	0	
09/27/2023	21:15:33	2609	0.0	8.41	378.3	0	
09/27/2023	21:17:03	2610	0.0	8.41	378.3	0	
09/27/2023	21:18:33	2612	0.0	8.41	378.3	0	
09/27/2023	21:20:03	2612	0.0	8.41	378.4	0	
09/27/2023	21:21:33	2612	0.0	8.41	378.4	0	
09/27/2023	21:22:01	2612	0.0	8.41	378.4	0	25 minute pressure reading was 2612psi.
09/27/2023	21:23:03	2613	0.0	8.41	378.4	0	
09/27/2023	21:24:33	2612	0.0	8.41	378.4	0	
09/27/2023	21:26:03	2613	0.0	8.41	378.4	0	
09/27/2023	21:27:33	2612	0.0	8.41	378.4	0	
09/27/2023	21:27:45	2613	0.0	8.41	378.4	0	End casing test.
09/27/2023	21:27:47	2612	0.0	8.41	378.4	0	Final test pressure was 2612psi.
09/27/2023	21:27:48	2613	0.0	8.41	378.4	0	Floats held.
09/27/2023	21:29:03	2613	0.0	8.41	378.4	0	
09/27/2023	21:30:33	-7	0.0	8.41	378.4	0	
09/27/2023	21:30:56	-7	0.0	8.41	378.4	0	End Job
09/27/2023	21:30:57	-7	0.0	8.41	378.4	0	Flush out cellar.
09/27/2023	21:32:03	-10	0.0	8.41	378.4	0	

Post Job Summary

Average Pump Rates, bbl/min				Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2
3.7			17.4	195.0	0.0	30.0	

Treating Pressure Summary, psi					Breakdown Fluid		
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density
3551	-10	1127	1020			bbl	lb/gal

Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp	Cement Circulated to Surface?	Volume
%	195.0 bbl	143.0 bbl	65 degF	X	33.0 bbl
				Washed Thru Perfs ☐	To ft

Customer or Authorized Representative	Schlumberger Supervisor	Circulation Lost	Job Completed
	JEFFREY PATTERSON	☐ -	X -