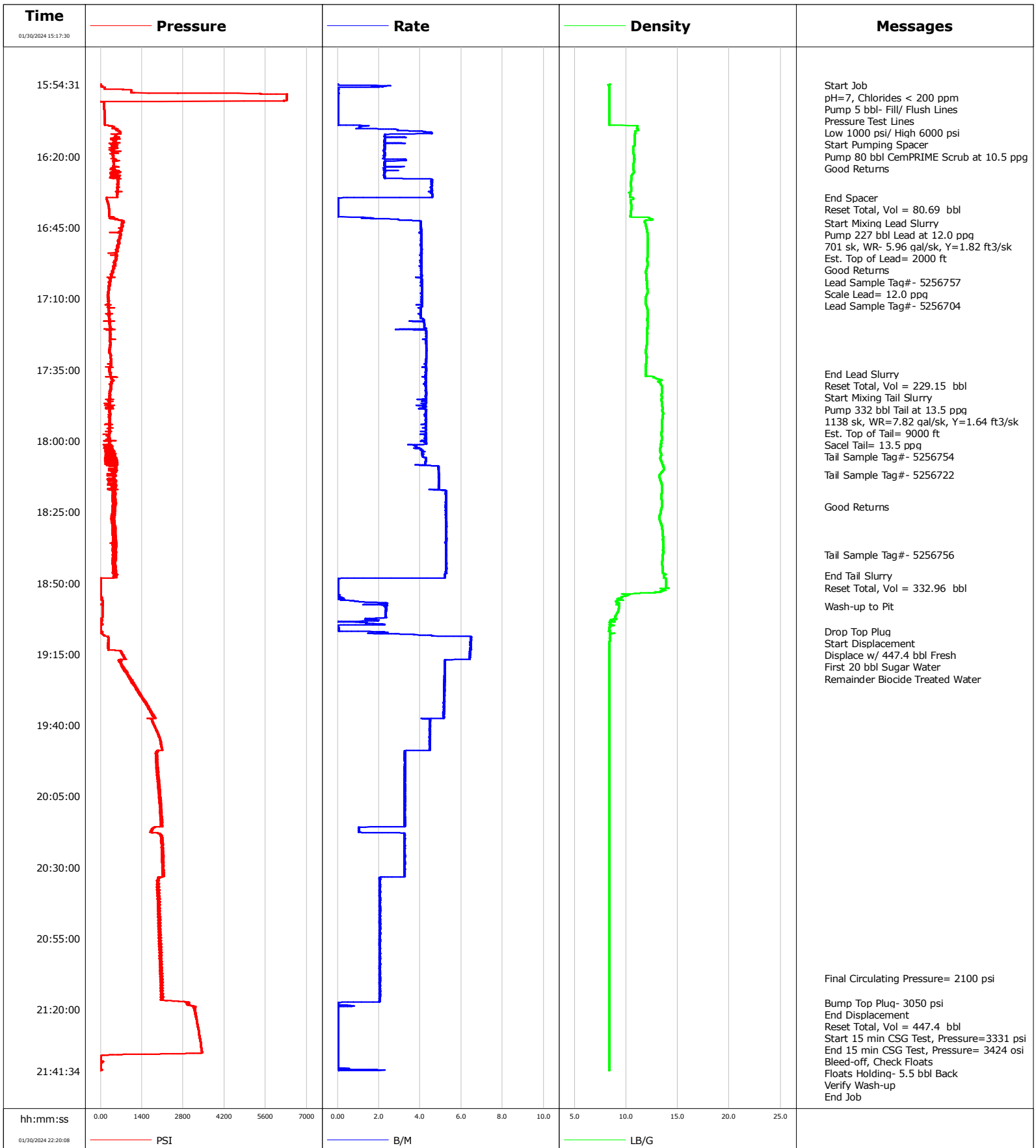


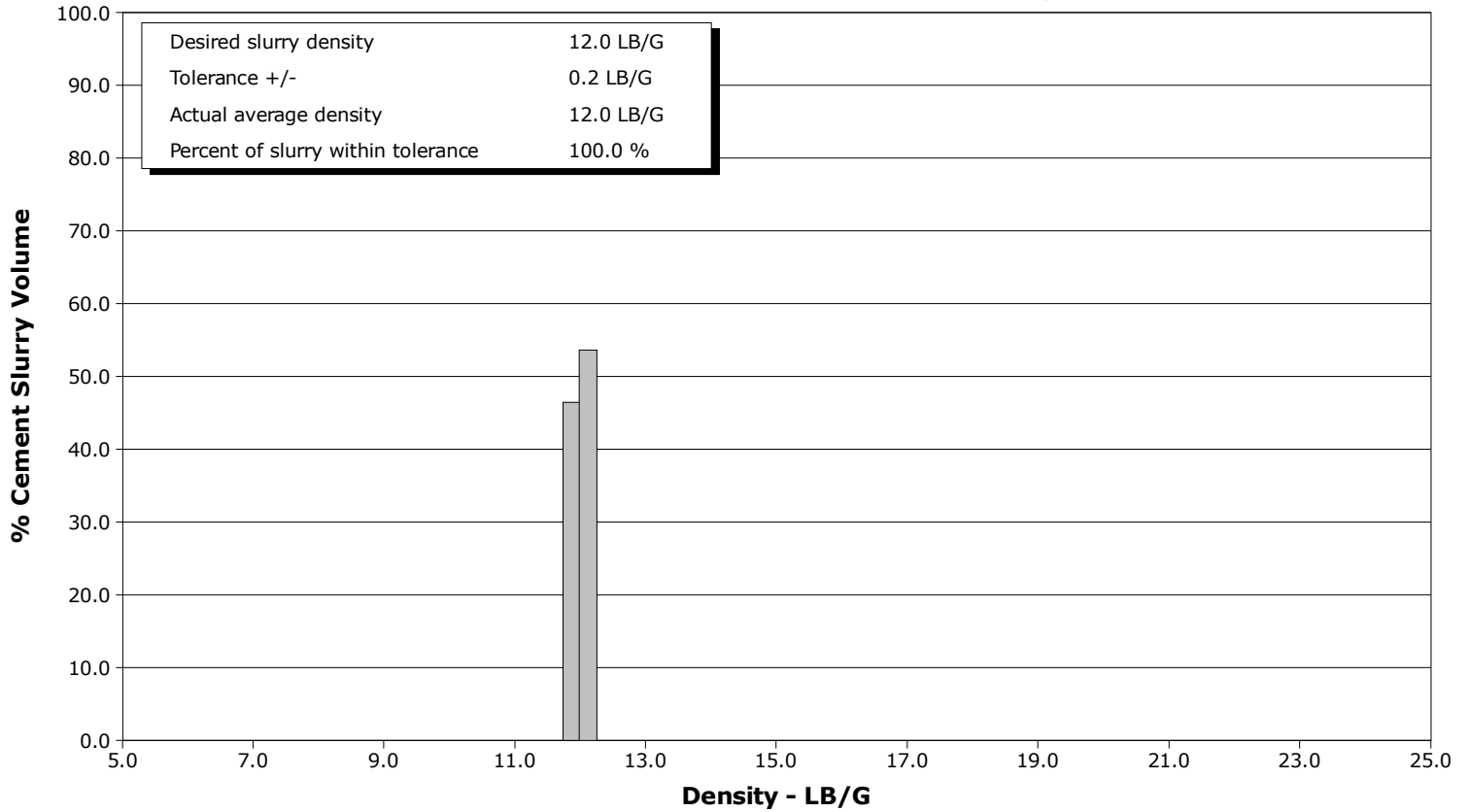
Well	Lizzy North 36-9HZ	Client	OXY
Field	Wattenberg	SIR No.	EOIC-02534
Engineer	Thomas Bailey	Job Type	Production
Country	United States	Job Date	01-30-2024



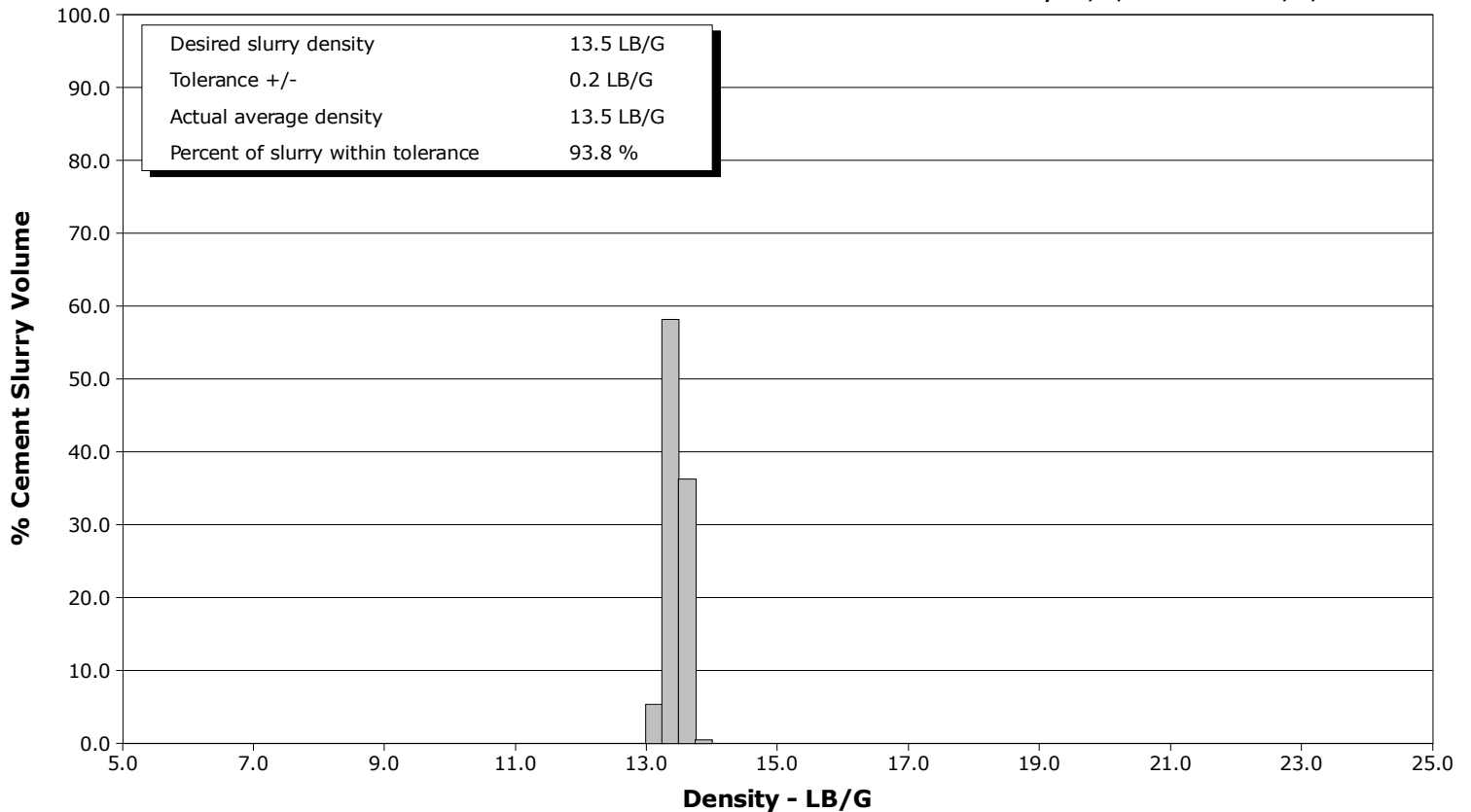
Well Lizzy North 36-9HZ
Field Wattenberg
Engineer Thomas Bailey
Country United States

Client OXY
SIR No. EOIC-02534
Job Type Production
Job Date 01-30-2024

Lead Slurry - 01/30/2024 16:43:18 to 01/30/2024 17:36:30



Tail Slurry - 01/30/2024 17:39:18 to 01/30/2024 18:47:30



				Customer			Job Number			
				OXY			EOIC-02534			
Well		Location (legal)			Schlumberger Location			Job Start		
Lizzy North 36-9HZ		PD461			Windsor			Jan/30/2024		
Field		Formation Name/Type			Deviation	Bit Size	Well MD		Well TVD	
Wattenberg					deg	7.9 in	19315.0 ft		7831.0 ft	
County		State/Province			BHP	BHST	BHCT	Pore Press. Gradient		
Weld		Colorado			psi	230 degF	230 degF	lb/gal		
Well Master		API/UWI								
0066676957		05-123-51989-00-00								
Rig Name	Drilled For		Service Via		Casing/Liner					
PD461	Oil & Gas		Land		Depth, ft	Size, in	Weight, lb/ft	Grade	Thread	
Offshore Zone	Well Class		Well Type		2174.0	9.6	36.0			
N/a	New		Development		19299.0	5.5	17.0			
Drilling Fluid Type		Max. Density	Plastic Viscosity		Tubing/Drill Pipe					
Oil Mud		9.60 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		Double Cement head		Top, ft	Bottom, ft	shot/ft	No. of Shots	Total Interval	
Service Instructions Cement 5.5" CSG to 19,299 ft Pump 80 bbl CemPRIME Scrub at 10.5 ppg 227 bbl Lead at 12.0 ppg (701 sk, WR=5.96 gal/sk, Y=1.82 ft3/sk) 332 bbl Tail at 13.5 ppg (1138 sk, WR=7.82 gal/sk, Y=1.64 ft3/sk) Disp. w/ 447.4 bbl Fresh					ft	ft			ft	
					ft	ft			Diameter	
					ft	ft			in	
					Treat Down		Displacement		Packer Type	
Casing		447.4 bbl				ft				
Tubing Vol.		Casing Vol.		Annular Vol.		Openhole Vol.				
bbl		448.5 bbl		632.6 bbl		528.5 bbl				
Casing/Tubing Secured		1 Hole Vol. Circulated prior to Cement			Casing Tools			Squeeze Job		
<input type="checkbox"/>		<input checked="" type="checkbox"/>								
Lift Pressure		Shoe Type			Shoe Depth		Squeeze Type			
2100 psi		Float			19299.0 ft					
Pipe Rotated		Pipe Reciprocated			Stage Tool Type		Tool Depth			
<input type="checkbox"/>		<input type="checkbox"/>					ft			
No. Centralizers		Top Plugs	Bottom Plugs		Stage Tool Depth		Tail Pipe Size			
		1	1		ft		in			
Cement Head Type		Job Scheduled For			Arrived on Location		Leave Location		Collar Type	Tail Pipe Depth
Single		Jan/29/2024 21:00		Jan/29/2024 20:00		Jan/30/2024 22:00		Float		ft
					Collar Depth		19253.0 ft		Sqz. Total Vol.	
									bbl	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
01/30/2024	15:17:30	-0	0.0	8.39	0.0	Started Acquisition				
01/30/2024	15:20:50	2	0.0	8.38	0.0					
01/30/2024	15:24:10	1	0.0	8.38	0.0					
01/30/2024	15:27:30	1	0.0	8.38	0.0					
01/30/2024	15:30:50	3	0.0	8.43	0.0					
01/30/2024	15:34:10	1	0.0	8.44	0.0					
01/30/2024	15:37:30	1	0.0	8.45	0.0					
01/30/2024	15:40:50	2	0.0	8.45	0.0					
01/30/2024	15:44:10	1	0.0	8.44	0.0					
01/30/2024	15:47:30	2	0.0	8.44	0.1					
01/30/2024	15:50:50	2	0.0	8.43	0.2					
01/30/2024	15:54:10	2	0.0	8.40	0.2					
01/30/2024	15:55:00	3	1.4	8.38	0.1	Start Job				
01/30/2024	15:56:00	122	0.0	8.37	1.5	pH=7, Chlorides < 200 ppm				
01/30/2024	15:57:00	1032	0.0	8.37	1.5	Pump 5 bbl- Fill/ Flush Lines				
01/30/2024	15:57:30	1033	0.0	8.37	1.5					
01/30/2024	15:58:00	5482	0.0	8.37	1.5	Pressure Test Lines				
01/30/2024	15:59:00	6302	0.0	8.37	1.5	Low 1000 psi/ High 6000 psi				
01/30/2024	16:00:50	-1	0.0	8.37	1.5					
01/30/2024	16:04:10	120	0.0	8.37	1.5					
01/30/2024	16:07:30	141	0.0	8.37	1.5					

Well			Field		Job Start	Customer	Job Number
Lizzy North 36-9HZ			Wattenberg		Jan/30/2024	OXY	EOIC-02534
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
01/30/2024	16:10:10	558	1.1	11.06	2.8	Pump 80 bbl CemPRIME Scrub at 10.5 ppg	
01/30/2024	16:10:50	538	2.9	11.16	4.5		
01/30/2024	16:14:10	528	2.3	10.81	14.7		
01/30/2024	16:15:00	466	2.3	10.82	16.6	Good Returns	
01/30/2024	16:17:30	485	2.3	10.66	22.4		
01/30/2024	16:20:50	422	2.2	10.79	29.9		
01/30/2024	16:24:10	339	2.3	10.73	38.3		
01/30/2024	16:27:30	342	2.3	10.51	45.9		
01/30/2024	16:30:50	550	4.5	10.46	60.4		
01/30/2024	16:34:10	566	4.6	10.39	75.6		
01/30/2024	16:34:21	564	4.6	10.40	76.4	End Spacer	
01/30/2024	16:34:34	190	0.1	10.67	76.9	Reset Total, Vol = 80.69 bbl	
01/30/2024	16:37:30	270	0.0	10.52	76.9		
01/30/2024	16:40:50	292	0.0	10.42	76.9		
01/30/2024	16:43:18	714	4.0	11.82	82.7	Start Mixing Lead Slurry	
01/30/2024	16:44:00	736	4.0	11.87	85.5	Pump 227 bbl Lead at 12.0 ppg	
01/30/2024	16:44:10	744	4.0	11.89	86.2		
01/30/2024	16:45:00	708	4.0	11.97	89.6	701 sk, WR- 5.96 gal/sk, Y=1.82 ft3/sk	
01/30/2024	16:46:00	716	4.0	12.01	93.6	Est. Top of Lead= 2000 ft	
01/30/2024	16:47:30	699	4.0	12.05	99.7		
01/30/2024	16:49:00	645	4.1	12.09	105.7	Good Returns	
01/30/2024	16:50:50	595	4.1	12.08	113.2		
01/30/2024	16:54:10	516	4.1	12.06	126.7		
01/30/2024	16:55:00	539	4.1	12.05	130.1	Lead Sample Tag# - 5256757	
01/30/2024	16:57:30	481	4.1	12.04	140.2		
01/30/2024	17:00:00	429	4.1	11.96	150.4	Scale Lead= 12.0 ppg	
01/30/2024	17:00:50	422	4.1	11.93	153.7		
01/30/2024	17:04:10	313	4.1	11.99	167.3		
01/30/2024	17:05:00	312	4.1	11.99	170.7	Lead Sample Tag# - 5256704	
01/30/2024	17:07:30	260	4.1	12.07	180.9		
01/30/2024	17:10:50	276	4.1	11.88	194.5		
01/30/2024	17:14:10	271	4.0	12.06	208.0		
01/30/2024	17:17:30	302	4.2	12.04	221.4		
01/30/2024	17:20:50	307	2.8	12.01	235.2		
01/30/2024	17:24:10	321	4.3	12.00	249.4		
01/30/2024	17:27:30	301	4.3	11.94	263.7		
01/30/2024	17:30:50	345	4.3	11.98	278.0		
01/30/2024	17:34:10	308	4.2	11.93	292.3		
01/30/2024	17:36:30	338	4.3	11.92	302.3	End Lead Slurry	
01/30/2024	17:37:00	331	4.3	11.87	304.4	Reset Total, Vol = 229.15 bbl	
01/30/2024	17:37:30	470	4.2	12.67	306.5		
01/30/2024	17:39:18	347	4.3	13.14	314.2	Start Mixing Tail Slurry	
01/30/2024	17:40:00	362	4.2	13.35	317.2	Pump 332 bbl Tail at 13.5 ppg	
01/30/2024	17:40:50	348	4.3	13.49	320.7		
01/30/2024	17:41:00	330	4.3	13.50	321.4	1138 sk, WR=7.82 gal/sk, Y=1.64 ft3/sk	
01/30/2024	17:42:00	360	4.3	13.45	325.7	Est. Top of Tail= 9000 ft	
01/30/2024	17:44:00	297	4.3	13.41	334.3	Sacl Tail= 13.5 ppg	
01/30/2024	17:44:10	298	4.3	13.42	335.0		
01/30/2024	17:47:30	282	4.0	13.49	349.1		
01/30/2024	17:50:50	332	4.2	13.56	363.2		
01/30/2024	17:54:10	172	4.2	13.46	377.4		
01/30/2024	17:57:30	312	4.3	13.41	391.6		
01/30/2024	18:00:00	255	4.2	13.42	402.3	Tail Sample Tag# - 5256754	
01/30/2024	18:00:50	291	4.3	13.38	405.8		

Well			Field		Job Start	Customer	Job Number
Lizzy North 36-9HZ			Wattenberg		Jan/30/2024	OXY	EOIC-02534
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
01/30/2024	18:07:30	371	4.3	13.44	433.1		
01/30/2024	18:10:50	499	4.9	13.49	448.5		
01/30/2024	18:12:00	238	4.9	13.24	454.2	Tail Sample Tag#- 5256722	
01/30/2024	18:14:10	467	4.9	13.34	464.9		
01/30/2024	18:17:30	399	5.2	13.44	481.2		
01/30/2024	18:20:50	415	5.3	13.44	498.7		
01/30/2024	18:23:12	466	5.2	13.44	511.1	Good Returns	
01/30/2024	18:24:10	454	5.2	13.39	516.2		
01/30/2024	18:27:30	379	5.2	13.21	533.7		
01/30/2024	18:30:50	514	5.3	13.50	551.2		
01/30/2024	18:34:10	449	5.3	13.57	568.7		
01/30/2024	18:37:30	435	5.3	13.61	586.2		
01/30/2024	18:40:00	508	5.3	13.56	599.4	Tail Sample Tag#- 5256756	
01/30/2024	18:40:50	411	5.2	13.54	603.8		
01/30/2024	18:44:10	447	5.3	13.53	621.3		
01/30/2024	18:47:30	525	5.2	13.65	638.7	End Tail Slurry	
01/30/2024	18:48:00	523	5.2	13.65	641.3	Reset Total, Vol = 332.96 bbl	
01/30/2024	18:50:50	11	0.0	13.86	643.0		
01/30/2024	18:54:10	9	0.1	10.09	643.1		
01/30/2024	18:57:30	26	1.6	9.06	645.5		
01/30/2024	18:58:00	65	2.4	9.28	646.5	Wash-up to Pit	
01/30/2024	19:00:50	61	2.3	9.08	653.1		
01/30/2024	19:04:10	24	1.4	8.45	659.1		
01/30/2024	19:07:00	8	0.1	8.30	660.4	Drop Top Plug	
01/30/2024	19:07:30	41	2.3	8.45	661.4		
01/30/2024	19:08:00	68	3.2	8.44	662.4	Start Displacement	
01/30/2024	19:10:00	263	6.5	8.42	673.7	Displace w/ 447.4 bbl Fresh	
01/30/2024	19:10:50	251	6.4	8.39	679.0		
01/30/2024	19:12:00	250	6.4	8.37	686.6	First 20 bbl Sugar Water	
01/30/2024	19:14:10	693	6.4	8.38	700.5		
01/30/2024	19:15:00	728	6.4	8.37	705.9	Remainder Biocide Treated Water	
01/30/2024	19:17:30	607	5.2	8.37	721.1		
01/30/2024	19:20:50	862	5.2	8.37	738.5		
01/30/2024	19:24:10	1016	5.2	8.37	755.8		
01/30/2024	19:27:30	1209	5.2	8.37	773.1		
01/30/2024	19:30:50	1410	5.1	8.37	790.3		
01/30/2024	19:34:10	1622	5.2	8.37	807.5		
01/30/2024	19:37:30	1852	5.2	8.37	824.6		
01/30/2024	19:40:50	1850	4.5	8.37	839.6		
01/30/2024	19:44:10	1998	4.5	8.37	854.5		
01/30/2024	19:47:30	2072	4.5	8.37	869.4		
01/30/2024	19:50:50	1881	3.3	8.37	882.0		
01/30/2024	19:54:10	1904	3.3	8.37	892.9		
01/30/2024	19:57:30	1907	3.3	8.37	903.7		
01/30/2024	20:00:50	1989	3.2	8.37	914.6		
01/30/2024	20:04:10	1982	3.3	8.37	925.4		
01/30/2024	20:07:30	2006	3.3	8.37	936.3		
01/30/2024	20:10:50	2009	3.2	8.37	947.1		
01/30/2024	20:14:10	2074	3.3	8.37	958.0		
01/30/2024	20:17:30	1721	1.0	8.37	965.1		
01/30/2024	20:20:50	2106	3.2	8.37	975.1		
01/30/2024	20:24:10	2080	3.3	8.37	985.9		
01/30/2024	20:27:30	2086	3.3	8.37	996.7		
01/30/2024	20:30:50	2156	3.3	8.37	1007.6		

Well		Field		Job Start		Customer		Job Number	
Lizzy North 36-9HZ		Wattenberg		Jan/30/2024		OXY		EOIC-02534	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
01/30/2024	20:37:30	1954	2.0	8.37	1024.3				
01/30/2024	20:40:50	1993	2.1	8.37	1031.1				
01/30/2024	20:44:10	1966	2.0	8.37	1037.9				
01/30/2024	20:47:30	1954	2.0	8.37	1044.8				
01/30/2024	20:50:50	1984	2.0	8.37	1051.6				
01/30/2024	20:54:10	2003	2.0	8.37	1058.4				
01/30/2024	20:57:30	2022	2.0	8.37	1065.2				
01/30/2024	21:00:50	2061	2.0	8.37	1072.0				
01/30/2024	21:04:10	2043	2.0	8.37	1078.8				
01/30/2024	21:07:30	2016	2.1	8.37	1085.6				
01/30/2024	21:09:00	2064	2.0	8.37	1088.7	Final Circulating Pressure= 2100 psi			
01/30/2024	21:10:50	2071	2.0	8.37	1092.4				
01/30/2024	21:17:30	2955	0.1	8.37	1106.0	Bump Top Plug- 3050 psi			
01/30/2024	21:18:00	2919	0.0	8.37	1106.0	End Displacement			
01/30/2024	21:18:10	2970	0.0	8.37	1106.0	Reset Total, Vol = 447.4 bbl			
01/30/2024	21:19:09	3169	0.0	8.37	1106.3	Start 15 min CSG Test, Pressure=3331 psi			
01/30/2024	21:20:50	3188	0.0	8.37	1106.3				
01/30/2024	21:24:10	3261	0.0	8.37	1106.3				
01/30/2024	21:27:30	3323	0.0	8.37	1106.3				
01/30/2024	21:30:50	3374	0.0	8.37	1106.3				
01/30/2024	21:34:00	3424	0.0	8.37	1106.3	End 15 min CSG Test, Pressure= 3424 osi			
01/30/2024	21:34:10	3426	0.0	8.37	1106.3				
01/30/2024	21:35:00	3437	0.0	8.37	1106.3	Bleed-off, Check Floats			
01/30/2024	21:35:30	2920	0.0	8.37	1106.3	Floats Holding- 5.5 bbl Back			
01/30/2024	21:36:00	328	0.0	8.37	1106.3	Verify Wash-up			
01/30/2024	21:37:00	1	0.0	8.37	1106.3	End Job			
01/30/2024	21:37:30	5	0.0	8.37	1106.3				
01/30/2024	21:40:50	3	0.2	8.37	1106.3				
01/30/2024	21:44:10	3	0.0	6.82	1114.5				
01/30/2024	21:47:30	17	0.0	0.44	1115.2				
01/30/2024	21:50:50	27	0.0	0.08	1115.2				
01/30/2024	21:54:10	30	0.0	0.06	1115.2				
01/30/2024	21:57:30	29	0.0	0.06	1115.2				
01/30/2024	22:00:50	29	0.0	0.04	1115.2				
01/30/2024	22:04:10	28	0.0	0.06	1115.2				
01/30/2024	22:07:30	28	0.0	0.04	1115.2				
01/30/2024	22:10:50	28	0.0	0.03	1115.2				
01/30/2024	22:14:10	1	0.0	0.03	1115.2				

Well Lizzy North 36-9HZ	Field Wattenberg	Job Start Jan/30/2024	Customer OXY	Job Number EOIC-02534
-----------------------------------	----------------------------	---------------------------------	------------------------	---------------------------------

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry 3.4	N2	Mud	Maximum Rate 19.5	Total Slurry 559.0	Mud 0.0	Spacer 80.0	N2	
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 6326	Final 1	Average 900	Bump Plug to 3050	Breakdown	Type	Volume bbl	Density lb/gal	
Avg. N2 Percent %	Designed Slurry Volume 559.0 bbl	Displacement 447.4 bbl	Mix Water Temp 55 degF	Cement Circulated to Surface? <input type="checkbox"/>	Volume bbl			
				Washed Thru Perfs <input type="checkbox"/>	To ft			
Customer or Authorized Representative Jason Laub			Schlumberger Supervisor Thomas Bailey		Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>		
					-	-		