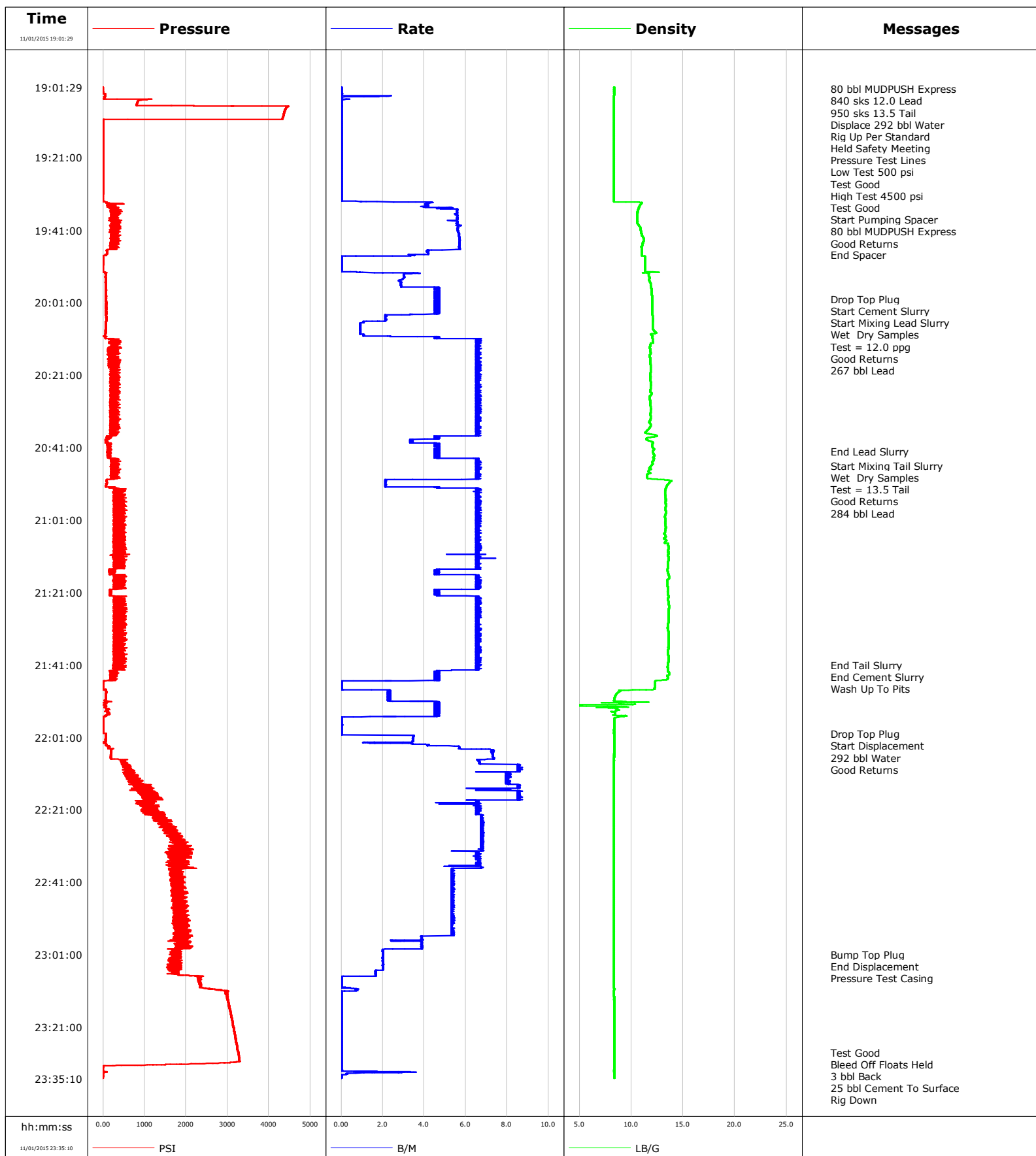


Well Sunflower 8N-17HZ
Field Wattenberge
Engineer Jordan Moreland / Stacy Terry
Country

Client Anadarko
SIR No. D2IK-01444
Job Type 5 1/2 Casing
Job Date



Cementing Service Report

				Customer Anadarko			Job Number D2IK-01444			
Well Sunflower 8N-17HZ			Location (legal)			Schlumberger Location			Job Start Nov/01/2015	
Field Wattenberge		Formation Name/Type			Deviation deg		Bit Size 8.5 in		Well MD ft	
County Weld		State/Province Colorado			BHP psi		BHST 229 degF		BHCT 226 degF	
Well Master 0631651865		API/UWI 05123420700000							Pore Press. Gradient lb/gal	
Rig Name Precision 461		Drilled For Oil		Service Via Land		Casing/ Liner				
						Depth, ft		Size, in		Weight, lb/ft
										Grade
Offshore Zone		Well Class New		Well Type Development		12657.0		5.5		17.0
						0.0		0.0		0.0
Drilling Fluid Type		Max. Density lb/gal		Plastic Viscosity cP		Tubing/Drill Pipe				
						T/D		Depth, ft		Size, in
										Weight, lb/ft
										Grade
Service Line Cementing		Job Type 5 1/2 Casing								
Max. Allowed Tub. Press psi		Max. Allowed Ann. Press psi		WH Connection Double Cement head		Perforations/Open Hole				
						Top, ft		Bottom, ft		shot/ft
						ft		ft		
						ft		ft		
										Total Interval ft
										Diameter in
						Treat Down Casing		Displacement 292.0 bbl		Packer Type
										Packer Depth ft
						Tubing Vol. bbl		Casing Vol. 294.0 bbl		Annular Vol. bbl
										Openhole Vol. bbl
Casing/Tubing Secured <input checked="" type="checkbox"/>		1 Hole Vol. Circulated prior to Cement <input checked="" type="checkbox"/>				Casing Tools			Squeeze Job	
Lift Pressure psi						Shoe Type Float			Squeeze Type	
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>				Shoe Depth 12657.0 ft			Tool Type	
No. Centralizers		Top Plugs 1		Bottom Plugs 1		Stage Tool Type			Tool Depth ft	
Cement Head Type						Stage Tool Depth ft			Tail Pipe Size in	
Job Scheduled For Nov/01/2015		Arrived on Location Nov/01/2015		Leave Location Nov/01/2015		Collar Type Float			Tail Pipe Depth ft	
						Collar Depth 12571.0 ft			Sqz. Total Vol. bbl	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
11/01/2015	19:01:29	-6	0.0	8.35	0.0	Started Acquisition				
11/01/2015	19:02:00	-6	0.0	8.35	0.0	80 bbl MUDPUSH Express				
11/01/2015	19:03:29	60	0.0	8.35	0.0					
11/01/2015	19:05:29	833	0.0	8.34	0.5					
11/01/2015	19:07:29	4400	0.0	8.34	0.5					
11/01/2015	19:09:29	4343	0.0	8.34	0.5					
11/01/2015	19:11:29	3	0.0	8.34	0.5					
11/01/2015	19:13:29	5	0.0	8.34	0.5					
11/01/2015	19:15:29	5	0.0	8.34	0.5					
11/01/2015	19:17:29	4	0.0	8.34	0.5					
11/01/2015	19:19:29	0	0.0	8.34	0.5					
11/01/2015	19:21:29	4	0.0	8.34	0.5					
11/01/2015	19:23:00	5	0.0	8.34	0.5	Start Pumping Spacer				
11/01/2015	19:23:29	4	0.0	8.34	0.5					
11/01/2015	19:24:00	4	0.0	8.34	0.5	80 bbl MUDPUSH Express				
11/01/2015	19:25:00	4	0.0	8.34	0.5	Good Returns				
11/01/2015	19:25:29	5	0.0	8.34	0.5					
11/01/2015	19:27:29	4	0.0	8.34	0.5					
11/01/2015	19:29:29	4	0.0	8.33	0.5					
11/01/2015	19:31:29	-1	0.0	8.33	0.5					
11/01/2015	19:33:29	106	4.1	11.02	1.9					

Well			Field	Job Start		Customer	Job Number
Sunflower 8N-17HZ			Wattenberge	Nov/01/2015		Anadarko	D2IK-01444
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
11/01/2015	19:37:29	227	5.6	10.55	22.3		
11/01/2015	19:39:29	246	5.6	10.68	33.5		
11/01/2015	19:41:29	201	5.6	10.95	44.7		
11/01/2015	19:42:00	207	5.7	10.99	47.6	End Spacer	
11/01/2015	19:43:29	320	5.7	11.20	56.1		
11/01/2015	19:45:29	205	5.7	10.99	67.4		
11/01/2015	19:47:29	95	4.2	10.99	77.2		
11/01/2015	19:49:29	2	0.0	11.36	79.5		
11/01/2015	19:51:29	-1	0.0	11.36	79.5		
11/01/2015	19:53:29	63	3.0	11.67	82.2		
11/01/2015	19:55:29	59	2.9	11.84	88.0		
11/01/2015	19:57:29	71	4.7	11.95	95.1		
11/01/2015	19:59:29	70	4.5	12.00	104.3		
11/01/2015	20:00:00	71	4.7	11.99	106.7	Drop Top Plug	
11/01/2015	20:01:00	74	4.7	12.02	111.3	Start Cement Slurry	
11/01/2015	20:01:29	70	4.7	12.02	113.6		
11/01/2015	20:02:00	73	4.7	12.03	116.0	Start Mixing Lead Slurry	
11/01/2015	20:03:00	74	4.5	12.03	120.6	Wet Dry Samples	
11/01/2015	20:03:29	72	4.7	12.03	122.9		
11/01/2015	20:04:00	71	4.7	12.02	125.3	Test = 12.0 ppg	
11/01/2015	20:05:00	74	2.1	12.06	128.0	Good Returns	
11/01/2015	20:05:29	72	2.1	12.08	129.1		
11/01/2015	20:06:00	75	2.1	12.08	130.2	267 bbl Lead	
11/01/2015	20:07:29	68	0.9	12.08	131.8		
11/01/2015	20:09:29	60	0.9	12.36	133.6		
11/01/2015	20:11:29	221	6.6	12.07	141.1		
11/01/2015	20:13:29	443	6.6	11.79	154.3		
11/01/2015	20:15:29	200	6.5	11.78	167.4		
11/01/2015	20:17:29	140	6.5	11.83	180.6		
11/01/2015	20:19:29	208	6.5	11.86	193.8		
11/01/2015	20:21:29	326	6.5	11.84	207.0		
11/01/2015	20:23:29	187	6.5	11.88	220.1		
11/01/2015	20:25:29	208	6.6	11.82	233.3		
11/01/2015	20:27:29	200	6.5	11.78	246.5		
11/01/2015	20:29:29	365	6.6	11.84	259.6		
11/01/2015	20:31:29	185	6.6	11.85	272.8		
11/01/2015	20:33:29	175	6.6	11.82	286.0		
11/01/2015	20:35:29	203	6.6	11.78	299.1		
11/01/2015	20:37:29	193	6.6	12.20	312.3		
11/01/2015	20:39:29	65	3.3	12.05	321.3		
11/01/2015	20:41:29	159	4.5	12.19	330.2		
11/01/2015	20:42:00	129	4.6	12.05	332.6	End Lead Slurry	
11/01/2015	20:43:29	107	4.5	12.20	339.5		
11/01/2015	20:45:29	327	6.6	12.07	351.8		
11/01/2015	20:46:00	236	6.6	11.91	355.2	Start Mixing Tail Slurry	
11/01/2015	20:47:00	422	6.5	11.91	361.8	Wet Dry Samples	
11/01/2015	20:47:29	237	6.6	11.67	364.9		
11/01/2015	20:48:00	181	6.6	11.82	368.4	Test = 13.5 Tail	
11/01/2015	20:49:00	212	6.6	11.54	374.9	284 bbl Lead	
11/01/2015	20:49:29	224	6.6	11.53	378.1		
11/01/2015	20:51:29	66	2.1	13.45	383.9		
11/01/2015	20:53:29	255	6.5	13.25	394.6		
11/01/2015	20:55:29	363	6.6	13.32	407.8		
11/01/2015	20:57:29	450	6.6	13.31	421.0		

Well			Field	Job Start		Customer		Job Number	
Sunflower 8N-17HZ			Wattenberge		Nov/01/2015		Anadarko		D2IK-01444
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
11/01/2015	21:01:29	261	6.6	13.28	447.3				
11/01/2015	21:03:29	343	6.5	13.32	460.5				
11/01/2015	21:05:29	420	6.6	13.32	473.7				
11/01/2015	21:07:29	286	6.6	13.53	486.8				
11/01/2015	21:09:29	259	6.6	13.56	500.0				
11/01/2015	21:11:29	352	6.6	13.58	513.2				
11/01/2015	21:13:29	256	6.6	13.56	526.4				
11/01/2015	21:15:29	227	4.6	13.53	537.7				
11/01/2015	21:17:29	390	6.5	13.50	549.6				
11/01/2015	21:19:29	477	6.6	13.52	562.8				
11/01/2015	21:21:29	166	4.6	13.55	573.5				
11/01/2015	21:23:29	276	6.6	13.58	585.7				
11/01/2015	21:25:29	277	6.6	13.61	598.8				
11/01/2015	21:27:29	558	6.6	13.59	612.0				
11/01/2015	21:29:29	296	6.6	13.57	625.2				
11/01/2015	21:31:29	262	6.6	13.55	638.3				
11/01/2015	21:33:29	411	6.5	13.59	651.5				
11/01/2015	21:35:29	484	6.6	13.57	664.7				
11/01/2015	21:37:29	370	6.6	13.53	677.9				
11/01/2015	21:39:29	272	6.5	13.58	691.0				
11/01/2015	21:41:00	292	6.5	13.54	701.0	End Tail Slurry			
11/01/2015	21:41:29	333	6.6	13.51	704.2				
11/01/2015	21:42:00	506	6.7	13.53	707.6	End Cement Slurry			
11/01/2015	21:43:29	262	4.6	13.63	715.4				
11/01/2015	21:45:00	201	4.7	13.49	722.5	Wash Up To Pits			
11/01/2015	21:45:29	23	0.1	12.34	724.3				
11/01/2015	21:47:29	4	0.0	12.23	724.3				
11/01/2015	21:49:29	66	2.2	8.49	727.9				
11/01/2015	21:51:29	63	4.6	8.76	733.6				
11/01/2015	21:53:29	115	4.7	8.74	742.9				
11/01/2015	21:55:29	2	0.0	8.65	751.3				
11/01/2015	21:57:29	3	0.0	8.35	751.3				
11/01/2015	21:59:29	2	0.0	8.35	751.3				
11/01/2015	22:00:00	64	0.0	8.34	751.3	Drop Top Plug			
11/01/2015	22:01:00	62	3.5	8.39	753.4	Start Displacement			
11/01/2015	22:01:29	60	3.5	8.39	755.1				
11/01/2015	22:02:00	60	3.5	8.39	756.9	292 bbl Water			
11/01/2015	22:03:00	81	4.2	8.39	759.7	Good Returns			
11/01/2015	22:03:29	136	5.7	8.39	761.9				
11/01/2015	22:05:29	194	7.3	8.35	775.2				
11/01/2015	22:07:29	441	6.6	8.35	789.5				
11/01/2015	22:09:29	516	8.6	8.35	804.8				
11/01/2015	22:11:29	849	8.0	8.35	821.4				
11/01/2015	22:13:29	704	7.9	8.34	837.4				
11/01/2015	22:15:29	963	8.0	8.34	853.9				
11/01/2015	22:17:29	1372	8.6	8.34	870.8				
11/01/2015	22:19:29	1044	6.5	8.34	885.6				
11/01/2015	22:21:29	993	6.6	8.34	898.8				
11/01/2015	22:23:29	1337	6.7	8.34	912.2				
11/01/2015	22:25:29	1624	6.7	8.34	925.7				
11/01/2015	22:27:29	1571	6.7	8.34	939.2				
11/01/2015	22:29:29	1687	6.7	8.34	952.7				
11/01/2015	22:31:29	1899	6.7	8.34	966.2				
11/01/2015	22:33:29	1557	6.6	8.34	979.5				

Well			Field		Job Start		Customer		Job Number	
Sunflower 8N-17HZ			Wattenberge		Nov/01/2015		Anadarko		D2IK-01444	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
11/01/2015	22:37:29	1873	5.4	8.34	1005.2					
11/01/2015	22:39:29	1729	5.3	8.34	1016.0					
11/01/2015	22:41:29	1639	5.4	8.34	1026.6					
11/01/2015	22:43:29	1938	5.3	8.34	1037.3					
11/01/2015	22:45:29	1975	5.3	8.34	1048.0					
11/01/2015	22:47:29	1800	5.3	8.34	1058.6					
11/01/2015	22:49:29	1829	5.3	8.34	1069.3					
11/01/2015	22:51:29	2097	5.3	8.34	1080.0					
11/01/2015	22:53:29	1880	5.3	8.34	1090.6					
11/01/2015	22:55:29	1711	5.3	8.34	1101.3					
11/01/2015	22:57:29	2081	3.9	8.34	1109.2					
11/01/2015	22:59:29	1911	2.5	8.34	1116.9					
11/01/2015	23:01:00	1783	2.0	8.34	1120.0	Bump Top Plug				
11/01/2015	23:01:29	1820	2.0	8.34	1120.9					
11/01/2015	23:02:00	1798	2.0	8.34	1122.0	End Displacement				
11/01/2015	23:03:00	1855	2.0	8.34	1124.0	Pressure Test Casing				
11/01/2015	23:03:29	1823	2.0	8.34	1124.9					
11/01/2015	23:05:29	1792	1.7	8.34	1128.9					
11/01/2015	23:07:29	2280	0.0	8.34	1131.4					
11/01/2015	23:09:29	2344	0.0	8.34	1131.4					
11/01/2015	23:11:29	3004	0.0	8.35	1131.9					
11/01/2015	23:13:29	3007	0.0	8.35	1131.9					
11/01/2015	23:15:29	3037	0.0	8.35	1131.9					
11/01/2015	23:17:29	3080	0.0	8.35	1131.9					
11/01/2015	23:19:29	3117	0.0	8.35	1131.9					
11/01/2015	23:21:29	3149	0.0	8.35	1131.9					
11/01/2015	23:23:29	3186	0.0	8.35	1131.9					
11/01/2015	23:25:29	3215	0.0	8.35	1131.9					
11/01/2015	23:27:29	3245	0.0	8.35	1131.9					
11/01/2015	23:28:00	3258	0.0	8.35	1131.9	Test Good				
11/01/2015	23:29:00	3267	0.0	8.35	1131.9	Bleed Off Floats Held				
11/01/2015	23:29:29	3279	0.0	8.35	1131.9					
11/01/2015	23:30:00	3282	0.0	8.35	1131.9	3 bbl Back				
11/01/2015	23:31:00	2667	0.0	8.35	1131.9	25 bbl Cement To Surface				
11/01/2015	23:31:29	985	0.0	8.35	1131.9					
11/01/2015	23:32:00	1	0.0	8.36	1131.9	Rig Down				
11/01/2015	23:33:00	-2	0.0	8.35	1131.9	End Job				

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl						
Slurry	N2	Mud	Maximum Rate		Total Slurry 552.0	Mud	Spacer 80.0	N2			
Treating Pressure Summary, psi					Breakdown Fluid						
Maximum 4500	Final 0	Average	Bump Plug to	Breakdown	Type	Volume bbl	Density lb/gal				
Avg. N2 Percent %	Designed Slurry Volume 0.0 bbl		Displacement 292.0 bbl	Mix Water Temp 65 degF	Cement Circulated to Surface? <input checked="" type="checkbox"/>		Volume	bbl			
					Washed Thru Perfs <input type="checkbox"/>		To	ft			
Customer or Authorized Representative			Schlumberger Supervisor Jordan Moreland / Stacy Terry			Circulation Lost <input type="checkbox"/>	Job Completed <input type="checkbox"/>				
						-	-				