



Cementing Service Report

Customer CHEVRONTEXACO						Job Number 2206744857							
Well EMERALD 49X			Location (legal) Vernal, UT			Schlumberger Location Vernal, UT			Job Start 2004-Apr-15				
Field RANGELY		Formation Name/Type			Deviation 0		BH Size in		Well MD 6,500 ft				
County RIO BLANCO		State/Province COLORADO			BHP psi		BHST 140 °F		BHCT 110 °F				
Well Master: 0630587259		API / UWI:			Casing/Liner								
Rig Name		Drilled For Injection		Service Via		Depth, ft 856		Size, in 7		Weight, lb/ft 23			
Offshore Zone		Well Class Old		Well Type Workover		Grade K55		Thread 8RD					
Drilling Fluid Type		Max. Density lb/gal		Plastic Viscosity cp		Depth, ft 0		Size, in 2.875		Weight, lb/ft 6.5			
Service Line Cementing		Job Type Plug & Abandon				Grade N80		Thread N/A					
Max. Allowed Tubing Pressure psi		Max. Allowed Ann. Pressure psi		Wellhead Connection		Perforations/Open Hole							
						Top, ft		Bottom, ft		Total Interval ft			
										Diameter in			
Service Instructions Plug to Abandon well with Class G Cement + additives.						Treat Down Tubing		Displacement bbl		Packer Type ft			
						Tubing Vol. bbl		Casing Vol. bbl		Annular Vol. bbl		Open Hole Vol. bbl	
Casing/Tubing Secured <input checked="" type="checkbox"/> 1 Hole Volume Circulated prior to Cementing <input checked="" type="checkbox"/>						Casing Tools			Squeeze Job				
Lift Pressure: psi						Shoe Type:			Squeeze Type				
Pipe Rotated <input type="checkbox"/> Pipe Reciprocated <input type="checkbox"/>						Shoe Depth: ft			Tool Type:				
No. Centralizers: Top Plugs: Bottom Plugs:						Stage Tool Type:			Tool Depth: ft				
Cement Head Type:						Stage Tool Depth: ft			Tail Pipe Size: in				
Job Scheduled For:						Collar Type:			Tail Pipe Depth: ft				
Arrived on Location: 2004-Apr-15 10:30						Collar Depth: ft			Squeeze Total Vol: bbl				
Leave Location: 2004-Apr-15 18:00													
Date	Time	Treating Pressure psi	Flow Rate bbl/min	Density lb/gal	Volume bbl	CMT STG VOL bbl	0	0	Message				
2004-Apr-15	12:08	0	0.0	8.33	0.0	0.0	0	0	Hold Safety Meeting				
2004-Apr-15	12:08	0	0.0	8.33	0.0	0.0	0	0					
2004-Apr-15	12:08								Start Job				
2004-Apr-15	12:09	0	0.0	8.25	0.0	0.0	0	0					
2004-Apr-15	12:10	0	0.0	8.33	0.0	0.0	0	0					
2004-Apr-15	12:11	3072	0.1	8.33	0.1	0.1	0	0					
2004-Apr-15	12:12								Pressure Test Lines				
2004-Apr-15	12:12	3415	0.0	8.32	0.1	0.1	0	0					
2004-Apr-15	12:12	0	0.0	8.32	0.1	0.1	0	0					
2004-Apr-15	12:13	0	0.0	8.32	0.1	0.1	0	0					
2004-Apr-15	12:13								Reset Total, Vol = 0.08 bbl				
2004-Apr-15	12:13								Start Pumping Water				
2004-Apr-15	12:13	5	0.7	8.33	0.0	0.0	0	0					
2004-Apr-15	12:13	348	0.8	8.33	1.1	1.1	0	0					
2004-Apr-15	12:14	572	1.5	8.20	2.3	2.3	0	0					
2004-Apr-15	12:15	609	1.5	8.22	3.9	3.9	0	0					
2004-Apr-15	12:16	838	1.7	8.23	5.5	5.5	0	0					
2004-Apr-15	12:17	728	1.7	8.23	7.2	7.2	0	0					
2004-Apr-15	12:18	833	1.7	8.19	8.9	8.9	0	0					
2004-Apr-15	12:19	870	1.7	8.20	10.6	10.6	0	0					
2004-Apr-15	12:20	893	1.7	8.18	12.3	12.3	0	0					
2004-Apr-15	12:21	865	1.7	8.19	13.9	13.9	0	0					

Well			Flow	Service Date		Customer			Job Number
EMERALD #49X			RANGELY	04106-Apr-15		CHEVRONTXACO			2206744857
Date	Time	Treating Pressure	Flow Rate	Density	Volume	CMT STG VOL	0	0	Message
	24 hr clock	psi	bbl/min	lb/gal	bbl	bbl	0	0	
2004-Apr-15	12:22	893	1.7	8.18	15.6	15.6	0	0	
2004-Apr-15	12:23	897	1.7	8.19	17.3	17.3	0	0	
2004-Apr-15	12:24	980	1.7	8.19	19.0	19.0	0	0	
2004-Apr-15	12:25	1122	1.7	8.19	20.7	20.7	0	0	
2004-Apr-15	12:26	792	1.4	8.17	22.2	22.2	0	0	
2004-Apr-15	12:27	792	1.4	8.16	23.6	23.6	0	0	
2004-Apr-15	12:28	705	1.4	8.18	25.0	25.0	0	0	
2004-Apr-15	12:29	682	1.4	8.17	26.4	26.4	0	0	
2004-Apr-15	12:30	687	1.4	8.19	27.8	27.8	0	0	
2004-Apr-15	12:31	682	1.4	8.15	29.2	29.2	0	0	
2004-Apr-15	12:32	883	1.6	8.14	30.6	30.6	0	0	
2004-Apr-15	12:33	952	1.6	8.16	32.2	32.2	0	0	
2004-Apr-15	12:34	778	1.6	8.16	33.7	33.7	0	0	
2004-Apr-15	12:35	829	1.6	8.15	35.3	35.3	0	0	
2004-Apr-15	12:36								End Water
2004-Apr-15	12:36	174	0.0	8.14	35.7	35.7	0	0	
2004-Apr-15	12:36								Wait to perf.
2004-Apr-15	12:36	110	0.0	8.22	35.7	35.7	0	0	
2004-Apr-15	13:03	-5	0.0	7.60	35.7	0.0	0	0	
2004-Apr-15	13:04	-5	0.0	7.57	35.7	0.0	0	0	
2004-Apr-15	13:05	-5	0.0	7.60	35.7	0.0	0	0	
2004-Apr-15	13:06	0	0.0	7.51	35.7	0.0	0	0	
2004-Apr-15	13:07	0	0.0	7.52	35.7	0.0	0	0	
2004-Apr-15	13:07								Start Pumping Water
2004-Apr-15	13:07	5	1.5	7.57	36.4	0.7	0	0	
2004-Apr-15	13:08	-18	2.7	7.55	38.4	2.8	0	0	
2004-Apr-15	13:09	27	4.6	7.57	42.3	6.7	0	0	
2004-Apr-15	13:10	69	4.9	7.60	47.1	11.4	0	0	
2004-Apr-15	13:11	128	4.8	0.01	51.9	16.3	0	0	
2004-Apr-15	13:12	156	4.8	-0.00	56.8	21.1	0	0	
2004-Apr-15	13:13	151	4.8	-0.00	61.7	26.0	0	0	
2004-Apr-15	13:14	119	4.8	-0.00	66.5	30.9	0	0	
2004-Apr-15	13:15	124	4.8	-0.00	71.4	35.7	0	0	
2004-Apr-15	13:16	124	4.8	-0.00	76.2	40.6	0	0	
2004-Apr-15	13:17	151	4.8	-0.00	81.1	45.4	0	0	
2004-Apr-15	13:18	146	4.9	-0.00	85.9	50.2	0	0	
2004-Apr-15	13:19	114	4.9	-0.00	90.8	55.1	0	0	
2004-Apr-15	13:20	119	4.9	-0.00	95.6	59.9	0	0	
2004-Apr-15	13:21	119	4.8	-0.00	100.5	64.8	0	0	
2004-Apr-15	13:22	124	4.8	-0.00	105.3	69.6	0	0	
2004-Apr-15	13:23	124	4.8	-0.00	110.2	74.5	0	0	
2004-Apr-15	13:24	156	4.8	-0.00	115.1	79.4	0	0	
2004-Apr-15	13:25	114	4.8	-0.00	119.9	84.3	0	0	
2004-Apr-15	13:26	128	4.8	-0.00	124.8	89.1	0	0	
2004-Apr-15	13:27	169	4.9	-0.00	129.6	94.0	0	0	
2004-Apr-15	13:28	124	4.9	-0.00	134.5	98.8	0	0	
2004-Apr-15	13:29	146	4.9	-0.00	139.3	103.7	0	0	
2004-Apr-15	13:30	137	4.8	-0.01	144.2	108.5	0	0	
2004-Apr-15	13:31	128	4.8	-0.00	149.0	113.4	0	0	
2004-Apr-15	13:32	169	4.9	-0.00	153.9	118.2	0	0	
2004-Apr-15	13:33	133	4.9	-0.00	158.7	123.1	0	0	
2004-Apr-15	13:34	160	4.9	-0.00	163.6	127.9	0	0	
2004-Apr-15	13:35	119	4.8	-0.00	168.4	132.8	0	0	
2004-Apr-15	13:36	128	4.9	-0.00	173.4	137.7	0	0	

Well			Flex		Service Date		Customer		Job Number
EMERALD #49X			RANGELY		04106-Apr-15		CHEVRONTEXACO		2206744857
Date	Time	Treating Pressure	Flow Rate	Density	Volume	CMT STG VOL	0	0	Message
	24 hr clock	psi	bbl/min	lb/gal	bbl	bbl	0	0	
2004-Apr-15	13:37	101	4.9	-0.00	178.2	142.6	0	0	
2004-Apr-15	13:38	160	4.8	-0.00	183.1	147.4	0	0	
2004-Apr-15	13:39	-18	0.0	-0.00	185.3	149.7	0	0	Wait on Rig
2004-Apr-15	13:39								End Water
2004-Apr-15	15:51	0	0.0	3.87	185.3	149.7	0	0	
2004-Apr-15	15:52	0	0.0	1.81	185.3	149.7	0	0	
2004-Apr-15	15:53	0	0.0	7.29	185.3	149.7	0	0	
2004-Apr-15	15:54	14	0.4	6.96	185.4	149.8	0	0	
2004-Apr-15	15:54								Pressure Test Lines
2004-Apr-15	15:54	1025	0.0	7.42	185.6	149.9	0	0	
2004-Apr-15	15:55	801	0.0	6.54	185.6	149.9	0	0	
2004-Apr-15	15:56	0	0.0	7.62	185.6	149.9	0	0	
2004-Apr-15	15:56	5	0.3	7.72	185.6	149.9	0	0	
2004-Apr-15	15:56								Start Pumping Water
2004-Apr-15	15:57	-5	3.7	7.15	186.7	151.0	0	0	
2004-Apr-15	15:58	5	4.2	7.69	190.5	154.9	0	0	
2004-Apr-15	15:59	27	4.9	3.89	195.4	159.8	0	0	
2004-Apr-15	16:00	23	5.0	4.05	200.4	164.8	0	0	
2004-Apr-15	16:01	60	5.0	3.39	205.4	169.8	0	0	
2004-Apr-15	16:02	114	5.0	4.38	210.4	174.7	0	0	
2004-Apr-15	16:03	183	5.0	4.16	215.4	179.7	0	0	
2004-Apr-15	16:04	114	5.0	6.02	220.4	184.8	0	0	
2004-Apr-15	16:05	137	5.0	3.47	225.4	189.8	0	0	
2004-Apr-15	16:06	169	5.0	4.95	230.4	194.7	0	0	
2004-Apr-15	16:07	114	5.0	4.94	235.4	199.7	0	0	
2004-Apr-15	16:07								End Water
2004-Apr-15	16:07	-5	0.0	7.97	236.0	200.3	0	0	Batch up tub
2004-Apr-15	16:08	-9	0.0	7.66	236.0	0.0	0	0	
2004-Apr-15	16:09	14	0.0	17.07	236.1	0.1	0	0	
2004-Apr-15	16:10	14	0.0	13.58	236.2	0.2	0	0	
2004-Apr-15	16:11	14	0.0	10.53	236.4	0.4	0	0	
2004-Apr-15	16:12	14	0.0	15.16	236.6	0.6	0	0	Send Cem. DownHole
2004-Apr-15	16:12								Start Mixing Lead Slurry
2004-Apr-15	16:12	0	0.7	15.79	236.7	0.7	0	0	
2004-Apr-15	16:13	9	0.8	16.02	236.9	0.9	0	0	
2004-Apr-15	16:14	23	0.7	15.96	237.7	1.7	0	0	
2004-Apr-15	16:15	18	0.7	15.78	238.4	2.4	0	0	
2004-Apr-15	16:16	18	1.7	15.74	239.8	3.8	0	0	
2004-Apr-15	16:16	37	2.6	15.71	240.2	4.2	0	0	
2004-Apr-15	16:16								Check Density
2004-Apr-15	16:17	78	4.0	15.56	243.0	7.0	0	0	
2004-Apr-15	16:18	37	2.7	15.11	246.1	10.1	0	0	
2004-Apr-15	16:19	78	4.0	15.59	249.6	13.6	0	0	
2004-Apr-15	16:20	92	4.0	16.17	253.6	17.6	0	0	
2004-Apr-15	16:21	78	4.0	15.32	257.5	21.5	0	0	
2004-Apr-15	16:22	46	2.7	15.84	260.3	24.3	0	0	
2004-Apr-15	16:23	87	4.0	15.57	264.0	28.1	0	0	
2004-Apr-15	16:24	69	4.0	15.44	268.0	32.0	0	0	
2004-Apr-15	16:25	73	4.0	15.11	271.7	35.7	0	0	
2004-Apr-15	16:26	37	2.7	15.62	275.2	39.2	0	0	
2004-Apr-15	16:27	82	4.0	15.49	278.5	42.5	0	0	
2004-Apr-15	16:28	55	2.7	15.92	282.3	46.3	0	0	
2004-Apr-15	16:29	69	2.7	15.76	285.0	49.0	0	0	
2004-Apr-15	16:30	110	2.7	16.36	287.7	51.7	0	0	

Well		Field		Service Date		Customer		Job Number	
EMERALD #49X		RANGELY		04106-Apr-15		CHEVRONTExACO		2206744857	
Date	Time	Treating Pressure	Flow Rate	Density	Volume	CMT STG VOL	0	0	Message
	24 hr clock	psi	bbbl/min	lb/gal	bbbl	bbbl	0	0	
2004-Apr-15	16:31	124	2.7	15.63	290.4	54.4	0	0	
2004-Apr-15	16:32	142	2.7	15.57	293.2	57.2	0	0	
2004-Apr-15	16:33	169	2.6	15.28	296.4	60.4	0	0	
2004-Apr-15	16:34	146	2.2	15.77	298.6	62.6	0	0	
2004-Apr-15	16:35	156	2.2	15.96	300.8	64.8	0	0	
2004-Apr-15	16:36	160	2.2	16.10	303.0	67.0	0	0	
2004-Apr-15	16:37	146	2.2	15.72	305.2	69.2	0	0	
2004-Apr-15	16:38	160	2.2	16.03	307.3	71.3	0	0	
2004-Apr-15	16:39	146	2.2	16.03	309.5	73.6	0	0	
2004-Apr-15	16:40	165	2.2	15.79	311.7	75.7	0	0	
2004-Apr-15	16:41	229	2.2	15.96	313.9	77.9	0	0	
2004-Apr-15	16:42	188	2.2	15.84	316.1	80.1	0	0	
2004-Apr-15	16:43	142	1.9	15.82	318.2	82.2	0	0	
2004-Apr-15	16:43								End Lead Slurry
2004-Apr-15	16:43	37	0.1	15.78	318.3	82.3	0	0	
2004-Apr-15	16:44	23	0.0	15.81	318.3	82.3	0	0	
2004-Apr-15	16:45	0	0.0	13.53	318.3	82.3	0	0	
2004-Apr-15	16:46	0	0.0	13.51	318.3	82.3	0	0	
2004-Apr-15	16:46								Break off well head
2004-Apr-15	16:46	0	0.0	13.51	318.3	82.3	0	0	
2004-Apr-15	16:58								End Job
2004-Apr-15	16:58	-5	0.0	8.07	318.3	82.3	0	0	
Post Job Summary									
Average Pump Rates, bpm					Volume of Fluid Injected, bbl				
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2		
3.02			4.91	82.19	0	244.25			
Treating Pressure Summary, psi					Breakdown Fluid				
Maximum	Final	Average	Bump Plug to	Breakdown	Volume	Density			
3561.26		243.69			bbbl	lb/gal			
Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp		<input checked="" type="checkbox"/> Cement Circulated to Surface?	Volume	22	bbbl	
%	82 bbl	0 bbl	68 °F		<input type="checkbox"/> Washed Thru Perfs	To	ft		
Customer or Authorized Representative			Schlumberger Supervisor		Circulation Lost		<input checked="" type="checkbox"/> Job Completed		
Fullbright, Gary			Allen, William						

Well	Emerald 49X	Client	ChevTex
Field	Rangely	SIR No.	2206744857
Engineer	William Allen	Job Type	PA
Country	United States	Job Date	04-15-2004

