



Cementing Service Report

Customer CHEVRONTXACO						Job Number 2206744857			
Well EMERALD 49X			Location (legal)			Schlumberger Location Vernal, UT			Job Start 2004-Apr-14
Field RANGELY		Formation Name/Type		Deviation		Bit Size in		Well MD 6,500 ft	Well TVD 6,500 ft
County RIO BLANCO		State/Province COLORADO		BHP psi	BHST 140 °F	BHCT 110 °F		Pore Press. Gradient psi/ft	
Well Master: 0630587259		API / UWI:		Casing/Liner					
Rig Name	Drilled For Injection	Service Via		Depth, ft 6388	Size, in 7	Weight, lb/ft 23	Grade K55	Thread 8RD	
Offshore Zone	Well Class Old	Well Type Workover		Tubing/Drill Pipe					
Drilling Fluid Type	Max. Density lb/gal	Plastic Vt: cp		Depth, ft 1428	Size, in 2.875	Weight, lb/ft 6.5	Grade N80	Thread N/A	
Service Line Cementing	Job Type Plug & Abandon			Perforations/Open Hole					
Max. Allowed Tubing Pressure 3000 psi	Max. Allowed Ann. Pressure psi	Wellhead Connection 2 7/8" 6.5# T/S		Top, ft	Bottom, ft	spf	No. of Shots	Total Interval ft	
Service Instructions Plug to Abandon well with Class G Cement + additives.								Diameter in	
				Treat Down Tubing		Displacement 6 bbl	Packer Type	Packer Depth ft	
				Tubing Vol. 7 bbl		Casing Vol. bbl	Annular Vol. 45 bbl	Open Hole Vol. bbl	
Casing/Tubing Secured <input checked="" type="checkbox"/> 1 Hole Volume Circulated prior to Cementing <input 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-14 9:00				Collar Depth: ft			Sqz Total Vol: bbl		
Leave Location: 2004-Apr-14 12:00									
Date	Time	Treating Pressure psi	Flow Rate bbl/min	Density lb/gal	Volume bbl	CMT AN PRES psi	0	0	Message
2004-Apr-14	10:13	9	0.0	6.94	0.0	0	0	0	safety meeting
2004-Apr-14	10:13								Start Job
2004-Apr-14	10:39	961	0.0	7.27	0.0	0	0	0	
2004-Apr-14	10:40								Start Pumping Brine
2004-Apr-14	10:40	14	0.0	7.21	0.0	0	0	0	100 bbls to roll hole
2004-Apr-14	10:40	18	0.9	7.22	0.2	0	0	0	
2004-Apr-14	10:42	-18	2.7	6.92	4.2	0	0	0	
2004-Apr-14	10:43	-9	2.8	-0.00	8.4	0	0	0	
2004-Apr-14	10:45	-9	2.8	-0.01	12.6	0	0	0	
2004-Apr-14	10:46	-5	2.8	-0.01	16.8	0	0	0	
2004-Apr-14	10:48	-5	2.8	-0.01	21.1	0	0	0	
2004-Apr-14	10:49	0	2.8	-0.01	25.3	0	0	0	
2004-Apr-14	10:51	37	2.8	-0.01	29.5	0	0	0	returns 28 bbls pumped
2004-Apr-14	10:52	46	2.8	-0.01	33.7	0	0	0	
2004-Apr-14	10:54	64	2.8	-0.01	37.9	0	0	0	
2004-Apr-14	10:55	78	2.8	-0.02	42.1	0	0	0	
2004-Apr-14	10:57	87	2.8	-0.02	46.4	0	0	0	
2004-Apr-14	10:58	96	2.8	-0.02	50.6	0	0	0	
2004-Apr-14	11:00	105	2.8	-0.02	54.8	0	0	0	
2004-Apr-14	11:01	105	2.8	-0.02	59.0	0	0	0	
2004-Apr-14	11:03	105	2.8	-0.02	63.2	0	0	0	
2004-Apr-14	11:04	110	2.8	-0.02	67.4	0	0	0	

Well		Flow		Service Date		Customer		Job Number	
EMERALD #49X		RANGELY		04105-Apr-14		CHEVRONTEXACO		2206744857	
Date	Time	Treating Pressure	Flow Rate	Density	Volume	CMT AN PRES	0	0	Message
	24 hr clock	psi	bbf/min	lb/gal	bbf	psi	0	0	
2004-Apr-14	11:06	105	2.8	-0.02	71.6	0	0	0	
2004-Apr-14	11:07	110	2.8	-0.02	75.8	0	0	0	
2004-Apr-14	11:09	110	2.8	-0.02	80.1	0	0	0	
2004-Apr-14	11:11	105	2.8	-0.02	84.3	0	0	0	
2004-Apr-14	11:12	110	2.8	-0.02	88.5	0	0	0	
2004-Apr-14	11:14	105	2.8	-0.02	92.7	0	0	0	
2004-Apr-14	11:15	110	2.8	-0.02	96.9	0	0	0	
2004-Apr-14	11:16	110	2.8	-0.02	99.8	0	0	0	
2004-Apr-14	11:16								Start Pumping Spacer 5 bbls
2004-Apr-14	11:17	128	2.8	-0.02	1.2	0	0	0	
2004-Apr-14	11:18	133	2.5	5.72	5.0	0	0	0	
2004-Apr-14	11:18								Shutdown weight up tub
2004-Apr-14	11:18	64	1.0	4.07	0.1	0	0	0	
2004-Apr-14	11:20	73	0.0	9.12	0.0	5	0	0	
2004-Apr-14	11:20	69	0.4	15.94	0.0	5	0	0	40 sks 8 bbls
2004-Apr-14	11:20								Start Cement Slurry
2004-Apr-14	11:21	96	2.3	16.96	2.6	5	0	0	
2004-Apr-14	11:23	23	1.5	16.29	5.3	5	0	0	
2004-Apr-14	11:24	18	1.5	16.04	7.5	5	0	0	
2004-Apr-14	11:25								Start Displacement 6 bbls
2004-Apr-14	11:25	18	1.5	7.78	8.6	5	0	0	
2004-Apr-14	11:25	14	1.5	5.57	8.6	0	0	0	
2004-Apr-14	11:26	-9	2.7	1.09	1.6	0	0	0	
2004-Apr-14	11:27	-18	0.0	0.55	5.3	0	0	0	
2004-Apr-14	11:27								Shutdown
2004-Apr-14	11:27	-18	0.0	0.53	5.3	0	0	0	done for the day
2004-Apr-14	11:28								End Job
2004-Apr-14	11:28	0	0.0	0.59	5.3	0	0	0	
Post Job Summary									
Average Pump Rates, bpm					Volume of Fluid Injected, bbl				
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2		
2.8			3	8		5			
Treating Pressure Summary, psi					Breakdown Fluid				
Maximum	Final	Average	Bump Plug to	Breakdown	Volume	Density			
180		110				15.8 lb/gal			
Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp		<input type="checkbox"/> Cement Circulated to Surface?	Volume			
%	8 bbl	6 bbl	58 °F		<input type="checkbox"/> Washed Thru Perfs	To	ft		
Customer or Authorized Representative			Schlumberger Supervisor						
Fullbright, Gary			Bristol, Terry		<input type="checkbox"/> Circulation Lost		<input checked="" type="checkbox"/> Job Completed		

Well	EMERALD 49X	Client	CHEVRONTXACO
Field	RANGELY	SIR No.	
Engineer	Terry Bristol	Job Type	PLUG TO ABANDON
Country	United States	Job Date	04-14-2004

