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**Schlumberger****Cementing Service Report**

Customer GRYNBERG PETROLEUM COMPANY						Job Number 2207162453		
Well Hiawatha Deep 4-36		Location (Legal) Rock Springs, WY		Schlumberger Location Rock Springs, WY		Job Start 2008-Dec-21		
Field Sugar Loaf		Formation Name/Type		Deviation *		Bit Size 17.5 in		Well MD 500 ft
County Moffat		State/Province Wyoming		BHP psi		BHST 86 °F		BHCT 80 °F
Well Master 0630999852		API / UWI 05-081-07427-00		Casing/Liner				
Rig Name Universal Drilling 1		Drilled For Gas		Service Via Land		Depth, ft 500		Size, in 13.38
Offshore Zone		Well Class New		Well Type New Well Completion		Weight, lb/ft 54.5		Grade Thread
Drilling Fluid Type Water		Max. Density 8.34 lb/gal		Plastic Viscosity cp		Depth, ft		Size, in
Service Line Cementing		Job Type Cem Surface Casing				Weight, lb/ft		Grade
Max. Allowed Tubing Pressure 2500 psi		Max. Allowed Ann. Pressure psi		Wellhead Connection Single cement head		Depth, ft		Size, in
Service Instructions Provide S&E to cement 13 3/8 Surface Csg Top Out G (+2% S001 on side)						Weight, lb/ft		Grade
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						Weight, lb/ft		Grade

Well			Field			Service Date		Customer			Job Number
Hiawatha Deep #4-36			Sugar Loaf			08358-Dec-21		GRYNNBERG PETROLEUM COMPANY			2207162453
Date	Time	Treating Pressure 24 hr clock psf	Flow Rate bbl/min	Density lb/gal	Volume bbl	0	0	0	Message		
2008-Dec-22	5:44	165	5.0	12.79	50.5	0	0	0			
2008-Dec-22	5:44								Water 50 F		
2008-Dec-22	5:44								Water 6 pH		
2008-Dec-22	5:44	172	5.1	12.79	51.3	0	0	0			
2008-Dec-22	5:44								Water Hardness 50 ppm		
2008-Dec-22	5:44	169	5.1	12.76	54.2	0	0	0			
2008-Dec-22	5:45								Water Sulfates 0 mg/l		
2008-Dec-22	5:45	170	5.1	12.76	56.5	0	0	0			
2008-Dec-22	5:45								Water Chlorides 0 mg/l		
2008-Dec-22	5:45	171	5.1	12.76	58.2	0	0	0			
2008-Dec-22	5:45	168	5.0	12.76	60.1	0	0	0			
2008-Dec-22	5:49	163	5.1	12.73	75.6	0	0	0	42.5-115		
2008-Dec-22	5:49								Reset Total, Vol = 76.95 bbl		
2008-Dec-22	5:49	14	0.0	12.70	76.9	0	0	0			
2008-Dec-22	5:49								End Lead Slurry		
2008-Dec-22	5:49	15	0.0	12.70	76.9	0	0	0			
2008-Dec-22	5:49								Start Mixing Tail Slurry		
2008-Dec-22	5:50	15	0.0	12.69	76.9	0	0	0			
2008-Dec-22	5:52	13	0.0	12.71	76.9	0	0	0			
2008-Dec-22	5:55	276	5.0	16.10	89.2	0	0	0			
2008-Dec-22	5:59	266	5.0	16.16	105.8	0	0	0			
2008-Dec-22	6:02	280	5.0	16.15	122.6	0	0	0			
2008-Dec-22	6:05	39	0.1	16.04	136.9	0	0	0	34.3-115		
2008-Dec-22	6:05								Reset Total, Vol = 60.00 bbl		
2008-Dec-22	6:05	38	0.0	16.05	0.0	0	0	0			
2008-Dec-22	6:05								End Tail Slurry		
2008-Dec-22	6:05	38	0.0	16.06	0.0	0	0	0			
2008-Dec-22	6:05								Drop Top Plug		
2008-Dec-22	6:05								Start Displacement		
2008-Dec-22	6:05	38	0.0	16.04	0.0	0	0	0			
2008-Dec-22	6:05	37	0.0	16.07	0.0	0	0	0			
2008-Dec-22	6:09	35	0.0	0.00	0.4	0	0	0			
2008-Dec-22	6:12	36	0.1	8.93	0.6	0	0	0			
2008-Dec-22	6:15	110	5.1	8.82	11.6	0	0	0			
2008-Dec-22	6:19	114	5.2	8.21	28.9	0	0	0			
2008-Dec-22	6:22	150	3.5	8.37	45.1	0	0	0			
2008-Dec-22	6:26	165	3.5	8.37	56.8	0	0	0			
2008-Dec-22	6:29	183	2.0	8.37	65.6	0	0	0			
2008-Dec-22	6:32	183	1.0	8.37	72.1	0	0	0			
2008-Dec-22	6:36	205	1.0	8.37	75.4	0	0	0			
2008-Dec-22	6:39	55	0.0	8.37	78.3	0	0	0			
2008-Dec-22	6:42	48	0.0	8.38	78.7	0	0	0			
2008-Dec-22	6:46	45	0.0	8.38	78.7	0	0	0			
2008-Dec-22	6:52	17	0.0	8.38	78.7	0	0	0			
2008-Dec-22	6:56	63	2.5	8.38	81.4	0	0	0			
2008-Dec-22	6:59	35	0.0	8.38	83.7	0	0	0			
2008-Dec-22	7:02	43	0.0	8.38	85.6	0	0	0			
2008-Dec-22	7:06	41	0.0	8.38	85.6	0	0	0			
2008-Dec-22	7:09	9	1.1	8.38	87.4	0	0	0			
2008-Dec-22	7:12	8	1.1	8.38	91.7	0	0	0			
2008-Dec-22	7:16	8	1.1	8.38	95.5	0	0	0			
2008-Dec-22	7:19	9	1.1	8.38	99.3	0	0	0			
2008-Dec-22	7:22	2	0.0	8.37	103.0	0	0	0			
2008-Dec-22	7:26	4	0.0	4.57	103.0	0	0	0			

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Well Hlawatha Deep #4-36			Field Sugar Loaf		Service Date 08356-Dec-21		Customer GRYNBERG PETROLEUM COMPANY			Job Number 2207162453
Date	Time 24 hr clock	Treating Pressure psi	Flow Rate bbl/min	Density lb/gal	Volume bbl	0	0	0	Message	
2008-Dec-22	7:29	4	0.0	0.02	103.0	0	0	0		
2008-Dec-22	7:32	5	0.0	0.02	103.0	0	0	0		
2008-Dec-22	7:36	3	0.0	0.01	103.0	0	0	0		
2008-Dec-22	7:39	4	0.0	0.01	103.0	0	0	0		
2008-Dec-22	7:46	3	0.0	0.01	103.0	0	0	0		
2008-Dec-22	7:52								Stopped Acquisition	
2008-Dec-22	7:52	3	0.0	0.01	103.0	0	0	0		
Post Job Summary										
Slurry 3		Average Pump Rates, bpm N2 Mud Maximum Rate 5			Volume of Fluid Injected, bbl Total Slurry Mud Spacer N2 137 0 0					
Treating Pressure Summary, psi Maximum Final Average Bump Plug to Breakdown 700 200 230					Breakdown Fluid Volume Density bbl lb/gal 40 bbl					
Avg. N2 Percent %		Designed Slurry Volume 136 bbl		Displacement 77 bbl		Mix Water Temp 50 °F		<input checked="" type="checkbox"/> Cement Circulated to Surface? Volume <input type="checkbox"/> Washed Thru Perfs To 224 1/2 ft		
Customer or Authorized Representative Gray, Jim				Schlumberger Supervisor Chavero Perez, Christian				<input type="checkbox"/> Circulation Lost <input checked="" type="checkbox"/> Job Completed		

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CemCAT v1.3

**Schlumberger**

# Cementing Job Report

Well	Hiawatha Deep 4-36	Client	GRYNBERG PETROLEUM COMPANY
Field	Sugar Loaf	SIR No.	
Engineer	Christian Chavero	Job Type	13 3/8 Surface
Country	United States	Job Date	12-21-2008

