



Directional Survey Data

Well Name Beezley 6X22	Lease Beezley	Field Name Rangely	Business Unit Mid-Continent/Alaska	Surface UWI 0510311743	Surface ChevNo MH9748	
Wellbore Name Original Hole	Directional Type Shallow Kick Off 'S'	Wellbore UWI 051031174300	Wellbore ChevNo MH9748-00	Kick Off Depth (ftKB)	Total Depth (ftKB) 6,837.00	Date TD Reached (wellbore) 10/13/2010 02:30
UTM Northing (Y) (ft)	UTM Easting (X) (ft)	UTM Grid Zone	Latitude (DMS)	Longitude (DMS)	Closure Direction (*) 242.76	

Directional Surveys

Description Surveys	Planned? No	Definitive? No	Note Correction
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Survey Data

Survey Company	Date	MD (ftKB)	TVD (ftKB)	Incl (°)	Azm (°)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Build (°/100ft)	Turn (°/100ft)
Scientific Drilling	9/30/2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Scientific Drilling	9/30/2010	190.00	189.93	2.73	242.78	4.53	-2.07	-4.02	1.44	1.44	127.78
Scientific Drilling	9/30/2010	280.00	279.82	2.99	236.89	9.00	-4.33	-7.90	0.44	0.29	-6.54
Scientific Drilling	9/30/2010	402.00	401.66	2.90	239.70	15.25	-7.63	-13.23	0.14	-0.07	2.30
Scientific Drilling	9/30/2010	494.00	493.54	2.81	232.58	19.79	-10.17	-17.03	0.40	-0.10	-7.74
Scientific Drilling	9/30/2010	584.00	583.42	3.08	232.23	24.34	-12.99	-20.69	0.30	0.30	-0.39
Scientific Drilling	9/30/2010	675.00	674.29	3.08	223.97	29.06	-16.25	-24.32	0.49	0.00	-9.08
Scientific Drilling	9/30/2010	767.00	766.21	1.85	208.15	32.62	-19.34	-26.74	1.52	-1.34	-17.20
Scientific Drilling	9/30/2010	864.00	863.18	0.62	201.82	34.31	-21.21	-27.67	1.27	-1.27	-6.53
Scientific Drilling	9/30/2010	962.00	961.18	0.53	133.53	34.56	-22.01	-27.54	0.66	-0.09	-69.68
Scientific Drilling	9/30/2010	1,058.00	1,057.18	0.44	51.44	34.05	-22.09	-26.93	0.67	-0.09	-85.51
Scientific Drilling	10/1/2010	1,154.00	1,153.16	1.32	339.10	33.57	-20.82	-27.03	1.31	0.92	299.65
Scientific Drilling	10/1/2010	1,252.00	1,251.14	1.32	5.47	32.83	-18.65	-27.33	0.61	0.00	-340.44
Scientific Drilling	10/1/2010	1,349.00	1,348.11	1.58	339.72	32.07	-16.28	-27.69	0.72	0.27	344.59
Scientific Drilling	10/1/2010	1,446.00	1,445.08	1.32	331.63	31.93	-14.04	-28.68	0.34	-0.27	-8.34
Scientific Drilling	10/1/2010	1,543.00	1,542.07	0.44	29.90	31.64	-12.74	-29.03	1.19	-0.91	-311.06
Scientific Drilling	10/1/2010	1,641.00	1,640.06	0.88	76.84	30.59	-12.24	-28.11	0.68	0.45	47.90
Scientific Drilling	10/1/2010	1,740.00	1,739.05	1.23	104.70	29.06	-12.34	-26.34	0.62	0.35	28.14
Scientific Drilling	10/1/2010	1,838.00	1,837.04	0.35	63.39	27.98	-12.47	-25.05	1.01	-0.90	-42.15
Scientific Drilling	10/1/2010	1,970.00	1,969.03	0.97	253.94	28.67	-12.60	-25.77	1.00	0.47	144.36
Scientific Drilling	10/4/2010	2,015.00	2,014.03	0.69	225.50	29.31	-12.89	-26.33	1.09	-0.62	-63.20
Scientific Drilling	10/4/2010	2,111.00	2,110.01	1.58	211.49	30.99	-14.43	-27.43	0.96	0.93	-14.59
Scientific Drilling	10/5/2010	2,209.00	2,207.95	2.37	184.86	33.22	-17.60	-28.31	1.22	0.81	-27.17
Scientific Drilling	10/5/2010	2,306.00	2,304.87	2.46	162.89	34.65	-21.58	-27.86	0.95	0.09	-22.65
Scientific Drilling	10/5/2010	2,403.00	2,401.81	1.49	137.75	34.69	-24.51	-26.40	1.32	-1.00	-25.92
Scientific Drilling	10/5/2010	2,500.00	2,498.76	2.11	182.40	35.25	-27.23	-25.63	1.53	0.64	46.03
Scientific Drilling	10/5/2010	2,597.00	2,595.66	3.17	208.06	38.34	-31.38	-26.97	1.61	1.09	26.45
Scientific Drilling	10/5/2010	2,695.00	2,693.41	5.01	216.94	44.42	-37.19	-30.81	1.98	1.88	9.06
Scientific Drilling	10/5/2010	2,792.00	2,789.87	7.03	226.61	53.93	-44.65	-37.67	2.32	2.08	9.97
Scientific Drilling	10/5/2010	2,889.00	2,886.02	8.18	231.97	66.41	-52.98	-47.42	1.39	1.19	5.53
Scientific Drilling	10/5/2010	2,996.00	2,991.70	9.85	241.46	83.04	-62.05	-61.46	2.08	1.56	8.87
Scientific Drilling	10/5/2010	3,083.00	3,077.21	11.34	242.34	99.04	-69.57	-75.58	1.72	1.71	1.01
Scientific Drilling	10/5/2010	3,180.00	3,172.32	11.34	240.71	118.10	-78.66	-92.34	0.33	0.00	-1.68
Scientific Drilling	10/5/2010	3,278.00	3,268.18	12.66	241.02	138.47	-88.58	-110.14	1.35	1.35	0.32
Scientific Drilling	10/5/2010	3,375.00	3,363.04	11.43	240.05	158.69	-98.53	-127.76	1.29	-1.27	-1.00
Scientific Drilling	10/6/2010	3,472.00	3,458.01	12.05	241.20	178.42	-108.21	-144.97	0.68	0.64	1.19
Scientific Drilling	10/6/2010	3,569.00	3,553.00	11.34	239.44	198.06	-117.93	-162.05	0.82	-0.73	-1.81
Scientific Drilling	10/6/2010	3,667.00	3,649.14	10.99	234.61	216.92	-128.24	-177.96	1.02	-0.36	-4.93
Scientific Drilling	10/6/2010	3,764.00	3,744.58	9.58	238.47	234.13	-137.82	-192.38	1.62	-1.45	3.98



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Survey Data											
Survey Company	Date	MD (ftKB)	TVD (ftKB)	Incl (°)	Azm (°)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Build (°/100ft)	Turn (°/100ft)
Scientific Drilling	10/6/2010	3,861.00	3,840.04	10.90	244.45	251.34	-146.00	-207.54	1.75	1.36	6.16
Scientific Drilling	10/6/2010	3,960.00	3,937.08	11.96	247.50	270.92	-153.96	-225.46	1.23	1.07	3.08
Scientific Drilling	10/6/2010	4,056.00	4,030.59	14.16	245.24	292.57	-162.68	-245.31	2.35	2.29	-2.35
Scientific Drilling	10/6/2010	4,153.00	4,124.64	14.16	245.77	316.27	-172.52	-266.91	0.13	0.00	0.55
Scientific Drilling	10/6/2010	4,248.00	4,217.27	11.43	243.75	337.29	-181.46	-285.95	2.91	-2.87	-2.13
Scientific Drilling	10/6/2010	4,345.00	4,312.45	10.82	242.78	356.01	-189.87	-302.67	0.66	-0.63	-1.00
Scientific Drilling	10/6/2010	4,442.00	4,407.63	11.43	245.68	374.71	-198.00	-319.52	0.85	0.63	2.99
Scientific Drilling	10/6/2010	4,540.00	4,503.94	9.85	242.87	392.79	-205.82	-335.83	1.70	-1.61	-2.87
Scientific Drilling	10/6/2010	4,637.00	4,599.09	12.49	245.33	411.57	-213.98	-352.75	2.77	2.72	2.54
Scientific Drilling	10/6/2010	4,734.00	4,693.97	11.52	243.75	431.73	-222.64	-370.97	1.06	-1.00	-1.63
Scientific Drilling	10/6/2010	4,831.00	4,789.51	8.35	239.18	448.45	-230.54	-385.71	3.37	-3.27	-4.71
Scientific Drilling	10/6/2010	4,929.00	4,886.29	9.76	247.44	463.83	-237.37	-399.49	1.95	1.44	8.43
Scientific Drilling	10/7/2010	5,026.00	4,981.65	11.33	250.23	481.48	-243.75	-416.05	1.70	1.62	2.88
Scientific Drilling	10/7/2010	5,123.00	5,076.74	11.43	251.83	500.42	-249.97	-434.15	0.34	0.10	1.65
Scientific Drilling	10/7/2010	5,221.00	5,172.75	11.70	252.01	519.81	-256.07	-452.83	0.28	0.28	0.18
Scientific Drilling	10/7/2010	5,318.00	5,267.72	11.78	247.53	539.39	-262.89	-471.33	0.94	0.08	-4.62
Scientific Drilling	10/7/2010	5,413.00	5,360.59	12.57	247.09	559.36	-270.62	-489.82	0.84	0.83	-0.46
Scientific Drilling	10/7/2010	5,511.00	5,456.10	13.28	242.96	581.25	-279.89	-509.66	1.19	0.72	-4.21
Scientific Drilling	10/7/2010	5,608.00	5,550.74	12.05	244.54	602.51	-289.30	-528.73	1.32	-1.27	1.63
Scientific Drilling	10/7/2010	5,706.00	5,646.49	12.57	247.50	623.36	-297.78	-547.82	0.83	0.53	3.02
Scientific Drilling	10/7/2010	5,803.00	5,741.18	12.49	246.47	644.35	-306.01	-567.19	0.24	-0.08	-1.06
Scientific Drilling	10/7/2010	5,900.00	5,836.18	10.82	246.38	663.91	-313.85	-585.15	1.72	-1.72	-0.09
Scientific Drilling	10/7/2010	5,997.00	5,931.77	8.71	241.20	680.34	-321.03	-599.93	2.35	-2.18	-5.34
Scientific Drilling	10/8/2010	6,095.00	6,028.81	7.30	237.33	693.95	-327.97	-611.67	1.54	-1.44	-3.95
Scientific Drilling	10/8/2010	6,191.00	6,123.84	8.97	239.09	707.49	-335.11	-623.23	1.76	1.74	1.83
Scientific Drilling	10/8/2010	6,288.00	6,219.87	7.21	239.09	721.12	-342.12	-634.94	1.81	-1.81	0.00
Scientific Drilling	10/8/2010	6,384.00	6,315.53	1.97	220.00	728.66	-346.48	-641.17	5.61	-5.46	-19.89
Scientific Drilling	10/9/2010	6,481.00	6,412.51	0.26	226.26	730.40	-347.91	-642.40	1.76	-1.76	6.45
Scientific Drilling	10/9/2010	6,558.00	6,489.49	2.29	325.48	730.77	-346.76	-643.40	3.05	2.64	128.86
Scientific Drilling	10/12/2010	6,726.00	6,657.29	3.28	307.91	733.21	-341.04	-649.10	0.77	0.59	-10.46
Scientific Drilling	10/12/2010	6,781.00	6,712.20	3.52	309.66	734.54	-339.00	-651.64	0.48	0.44	3.18
Scientific Drilling	10/12/2010	6,837.00	6,768.09	3.52	309.66	735.88	-336.81	-654.28	0.00	0.00	0.00