



Directional Survey
Well Name: STELLING 3B-4H

API # 05123354130000	Well Type Gas	Business Unit Southern Rockies	SBU DJ Basin	Area DJ Basin	Pad	State CO	County/Parish WELD
Orig KB Elev (ft)	Gr Elev (ft)	KB-Grd (ft)	Total Depth (All) (ftKB) Original Hole - Initial Migration - 11,76...	Total Depth (TVD) (ftKB) Original Hole - Initial Migration - 7,045.1	Spud Date 06/24/2012 15:00	Final Rig Release D... 07/09/2012 00:00	Latitude (decimal) (°) Long (dec) (°)

Wellbore Sections

Section Description Conductor	Hole Size (in)	Act Top (ftKB) 0.0	Act Btm (ftKB)	Section Spud Date	Section TD Date
Section Description Surface	Hole Size (in) 12 1/4	Act Top (ftKB) 0.0	Act Btm (ftKB) 1,020.0	Section Spud Date 06/24/2012	Section TD Date 06/25/2012
Section Description Intermediate	Hole Size (in) 8 3/4	Act Top (ftKB) 1,020.0	Act Btm (ftKB) 7,284.0	Section Spud Date 06/26/2012	Section TD Date 07/02/2012
Section Description Production	Hole Size (in) 6 1/8	Act Top (ftKB) 7,284.0	Act Btm (ftKB) 11,761.0	Section Spud Date 07/04/2012	Section TD Date 07/08/2012

Deviation Surveys

Date 06/24/2012	Bottom Hole Legal Location	Wellbore Type Original Hole - Initial Migration	Job New Drill, 06/23/2012 00:00, 12165744	Actual Directional Survey Original Migration, Proposed? No	KO MD (ftKB)	VS Dir (°)	Defini...
MD Tie In (ftKB)	Inclination Tie In (°)	Azimuth Tie In (°)	TVD Tie In (ftKB)	NSTie In (ft)	EW Tie In (ft)	VS Tie In (ft)	

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Survey Company
	140.00	0.80	105.00	140.00	-0.25	0.94	-0.18	0.57	Cathedral
	232.00	2.80	128.50	231.95	-1.82	3.32	-1.55	2.27	Cathedral
	324.00	3.50	140.30	323.81	-5.38	6.88	-4.81	1.03	Cathedral
	416.00	5.10	147.60	415.55	-10.99	10.86	-10.09	1.83	Cathedral
	508.00	7.20	154.00	507.01	-19.63	15.58	-18.33	2.40	Cathedral
	600.00	6.90	154.60	598.32	-29.80	20.48	-28.08	0.34	Cathedral
	692.00	7.60	153.50	689.58	-40.24	25.56	-38.08	0.78	Cathedral
	784.00	7.60	153.60	780.77	-51.13	30.98	-48.51	0.01	Cathedral
	876.00	7.70	154.40	871.95	-62.14	36.35	-59.05	0.16	Cathedral
	966.00	8.00	154.20	961.11	-73.22	41.68	-69.67	0.33	Cathedral
	1,059.00	9.50	158.10	1,053.03	-86.16	47.36	-82.12	1.73	Cathedral
	1,090.00	9.20	157.50	1,083.61	-90.83	49.26	-86.62	1.02	Cathedral
	1,182.00	8.50	155.60	1,174.52	-103.81	54.89	-99.12	0.82	Cathedral
	1,274.00	8.30	153.60	1,265.53	-115.95	60.65	-110.76	0.38	Cathedral
	1,366.00	7.90	153.10	1,356.61	-127.54	66.46	-121.85	0.44	Cathedral
	1,458.00	7.60	152.40	1,447.77	-138.57	72.14	-132.39	0.34	Cathedral
	1,553.00	6.90	152.40	1,542.01	-149.19	77.69	-142.54	0.74	Cathedral
	1,648.00	7.30	149.80	1,636.29	-159.47	83.37	-152.33	0.54	Cathedral
	1,743.00	8.00	149.80	1,730.44	-170.40	89.74	-162.72	0.74	Cathedral
	1,837.00	7.90	148.50	1,823.54	-181.56	96.40	-173.32	0.22	Cathedral
	1,932.00	7.90	149.90	1,917.63	-192.77	103.09	-183.97	0.20	Cathedral
	2,027.00	7.50	150.20	2,011.78	-203.80	109.44	-194.45	0.42	Cathedral
	2,121.00	7.50	155.90	2,104.97	-214.73	115.00	-204.90	0.79	Cathedral
	2,216.00	6.60	153.80	2,199.26	-225.28	119.94	-215.03	0.99	Cathedral
	2,311.00	6.30	140.20	2,293.66	-234.19	125.69	-223.45	1.63	Cathedral
	2,406.00	6.30	129.60	2,388.09	-241.52	133.04	-230.17	1.22	Cathedral
	2,469.00	6.60	136.60	2,450.69	-246.35	138.19	-234.58	1.33	Cathedral
	2,532.00	6.70	142.10	2,513.27	-251.88	142.94	-239.72	1.02	Cathedral
	2,595.00	6.60	145.10	2,575.84	-257.75	147.26	-245.22	0.57	Cathedral
	2,658.00	6.50	153.80	2,638.43	-263.92	150.91	-251.08	1.58	Cathedral
	2,722.00	6.50	148.30	2,702.02	-270.25	154.41	-257.12	0.97	Cathedral
	2,785.00	7.00	149.90	2,764.59	-276.61	158.21	-263.15	0.85	Cathedral
	2,879.00	7.70	147.30	2,857.81	-286.86	164.49	-272.87	0.82	Cathedral
	2,974.00	8.00	151.50	2,951.92	-298.03	171.08	-283.48	0.68	Cathedral
	3,069.00	7.80	149.40	3,046.02	-309.38	177.52	-294.29	0.37	Cathedral
	3,164.00	7.40	150.90	3,140.19	-320.28	183.77	-304.65	0.47	Cathedral
	3,259.00	7.00	152.10	3,234.44	-330.74	189.46	-314.63	0.45	Cathedral
	3,354.00	6.90	143.90	3,328.74	-340.47	195.53	-323.84	1.05	Cathedral
	3,448.00	7.30	148.30	3,422.02	-350.11	201.99	-332.94	0.72	Cathedral
	3,543.00	7.70	151.30	3,516.21	-360.83	208.22	-343.13	0.59	Cathedral
	3,638.00	7.30	151.20	3,610.40	-371.70	214.18	-353.49	0.42	Cathedral



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Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Survey Company
	3,733.00	6.50	147.30	3,704.71	-381.51	220.00	-362.81	0.98	Cathedral
	3,828.00	6.50	140.90	3,799.10	-390.21	226.29	-370.98	0.76	Cathedral
	3,922.00	6.80	151.80	3,892.47	-399.25	232.28	-379.51	1.38	Cathedral
	4,017.00	7.60	156.30	3,986.72	-409.96	237.46	-389.78	1.03	Cathedral
	4,112.00	7.60	158.10	4,080.89	-421.54	242.33	-400.93	0.25	Cathedral
	4,207.00	8.70	154.30	4,174.93	-433.84	247.79	-412.76	1.29	Cathedral
	4,302.00	7.50	154.30	4,268.98	-445.90	253.59	-424.33	1.26	Cathedral
	4,397.00	6.80	156.30	4,363.24	-456.64	258.54	-434.64	0.78	Cathedral
	4,492.00	7.60	154.30	4,457.49	-467.45	263.53	-445.02	0.88	Cathedral
	4,587.00	7.70	155.00	4,551.64	-478.88	268.94	-455.98	0.14	Cathedral
	4,682.00	7.80	154.00	4,645.78	-490.44	274.46	-467.06	0.18	Cathedral
	4,776.00	8.70	154.00	4,738.80	-502.56	280.37	-478.68	0.96	Cathedral
	4,871.00	8.10	151.80	4,832.78	-514.92	286.68	-490.49	0.72	Cathedral
	4,966.00	6.40	147.40	4,927.02	-525.28	292.70	-500.34	1.88	Cathedral
	5,061.00	7.20	146.50	5,021.35	-534.70	298.84	-509.25	0.85	Cathedral
	5,155.00	6.70	148.10	5,114.66	-544.27	304.99	-518.30	0.57	Cathedral
	5,250.00	7.10	149.50	5,208.97	-554.04	310.90	-527.56	0.46	Cathedral
	5,345.00	7.90	150.10	5,303.16	-564.75	317.13	-537.75	0.85	Cathedral
	5,439.00	6.80	145.20	5,396.39	-574.92	323.53	-547.38	1.35	Cathedral
	5,534.00	6.30	154.80	5,490.77	-584.26	328.96	-556.25	1.27	Cathedral
	5,629.00	6.90	151.80	5,585.14	-594.00	333.87	-565.58	0.73	Cathedral
	5,723.00	7.80	148.70	5,678.37	-604.43	339.85	-575.50	1.05	Cathedral
	5,818.00	6.80	151.80	5,772.60	-614.90	345.86	-585.45	1.13	Cathedral
	5,913.00	3.60	160.20	5,867.19	-622.66	349.53	-592.90	3.45	Cathedral
	6,008.00	3.50	170.30	5,962.01	-628.33	351.03	-598.43	0.67	Cathedral
	6,103.00	1.50	171.70	6,056.92	-632.42	351.70	-602.45	2.11	Cathedral
	6,198.00	0.20	224.20	6,151.90	-633.76	351.76	-603.79	1.46	Cathedral
	6,293.00	0.40	240.10	6,246.90	-634.05	351.36	-604.10	0.23	Cathedral
	6,356.00	0.80	312.60	6,309.90	-633.86	350.84	-603.96	1.24	Cathedral
	6,388.00	2.10	347.80	6,341.89	-633.14	350.55	-603.26	4.74	Cathedral
	6,419.00	3.70	356.60	6,372.85	-631.58	350.38	-601.72	5.34	Cathedral
	6,451.00	5.10	4.50	6,404.75	-629.13	350.43	-599.28	4.76	Cathedral
	6,482.00	6.90	8.20	6,435.58	-625.92	350.80	-596.04	5.94	Cathedral
	6,514.00	8.30	7.90	6,467.30	-621.73	351.39	-591.82	4.38	Cathedral
	6,546.00	9.20	6.00	6,498.93	-616.89	351.98	-586.95	2.95	Cathedral
	6,577.00	10.20	4.20	6,529.49	-611.69	352.44	-581.73	3.37	Cathedral
	6,609.00	11.90	3.80	6,560.89	-605.57	352.86	-575.60	5.32	Cathedral
	6,641.00	11.60	2.50	6,592.22	-599.07	353.22	-569.09	1.25	Cathedral
	6,672.00	12.40	1.00	6,622.54	-592.63	353.42	-562.65	2.77	Cathedral
	6,704.00	14.10	2.20	6,653.69	-585.30	353.62	-555.32	5.38	Cathedral
	6,735.00	14.90	2.50	6,683.70	-577.54	353.94	-547.57	2.59	Cathedral
	6,767.00	16.40	1.80	6,714.52	-568.91	354.27	-538.94	4.72	Cathedral
	6,799.00	17.50	1.00	6,745.12	-559.59	354.49	-529.63	3.51	Cathedral
	6,830.00	20.20	0.90	6,774.46	-549.57	354.66	-519.64	8.71	Cathedral
	6,862.00	24.10	1.20	6,804.09	-537.51	354.88	-507.59	12.19	Cathedral
	6,893.00	28.20	2.00	6,831.91	-523.86	355.27	-493.95	13.27	Cathedral
	6,925.00	31.90	1.60	6,859.61	-507.85	355.77	-477.95	11.58	Cathedral
	6,988.00	42.10	0.40	6,909.86	-469.99	356.38	-440.16	16.23	Cathedral
	7,020.00	47.60	0.30	6,932.53	-447.43	356.52	-417.67	17.19	Cathedral
	7,051.00	53.30	359.90	6,952.26	-423.54	356.56	-393.85	18.41	Cathedral
	7,083.00	59.40	359.30	6,969.99	-396.91	356.37	-367.32	19.13	Cathedral
	7,115.00	64.70	359.00	6,984.98	-368.66	355.95	-339.19	16.58	Cathedral
	7,146.00	67.80	358.70	6,997.47	-340.29	355.38	-310.96	10.04	Cathedral



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Orig KB Elev (ft)	Gr Elev (ft)	KB-Grd (ft)	Total Depth (All) (ftKB) Original Hole - Initial Migration - 11,76...	Total Depth (TVD) (ftKB) Original Hole - Initial Migration - 7,045.1	Spud Date 06/24/2012 15:00	Final Rig Release D... 07/09/2012 00:00	Latitude (decimal) (°) Long (dec) (°)

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Survey Company
	7,178.00	72.50	359.00	7,008.33	-310.21	354.77	-281.02	14.71	Cathedral
	7,209.00	77.40	359.10	7,016.37	-280.28	354.28	-251.23	15.81	Cathedral
	7,233.00	81.20	358.60	7,020.83	-256.71	353.80	-227.77	15.97	Cathedral
	7,270.00	84.60	357.80	7,025.40	-220.02	352.65	-191.28	9.44	Cathedral
	7,324.00	88.70	357.50	7,028.56	-166.17	350.44	-137.78	7.61	Cathedral
	7,387.00	89.60	358.40	7,029.49	-103.22	348.19	-75.20	2.02	Cathedral
	7,450.00	89.90	358.10	7,029.77	-40.25	346.26	-12.59	0.67	Cathedral
	7,513.00	90.50	359.20	7,029.55	22.73	344.78	50.08	1.99	Cathedral
	7,576.00	91.00	0.40	7,028.72	85.73	344.56	112.85	2.06	Cathedral
	7,639.00	90.70	0.80	7,027.79	148.72	345.22	175.69	0.79	Cathedral
	7,703.00	90.30	359.90	7,027.23	212.71	345.61	239.52	1.54	Cathedral
	7,766.00	89.80	359.90	7,027.17	275.71	345.50	302.31	0.79	Cathedral
	7,829.00	89.50	0.20	7,027.56	338.71	345.55	365.11	0.67	Cathedral
	7,892.00	89.80	359.90	7,027.94	401.71	345.61	427.92	0.67	Cathedral
	7,955.00	89.70	0.50	7,028.22	464.71	345.83	490.73	0.97	Cathedral
	8,019.00	89.80	0.40	7,028.50	528.71	346.33	554.57	0.22	Cathedral
	8,082.00	89.50	0.40	7,028.88	591.70	346.77	617.40	0.48	Cathedral
	8,151.00	89.50	0.40	7,029.49	660.70	347.25	686.22	0.00	Cathedral
	8,214.00	89.10	0.70	7,030.25	723.69	347.86	749.06	0.79	Cathedral
	8,278.00	88.50	0.70	7,031.60	787.67	348.64	812.90	0.94	Cathedral
	8,341.00	88.40	1.00	7,033.30	850.64	349.57	875.74	0.50	Cathedral
	8,404.00	87.70	1.20	7,035.44	913.59	350.78	938.59	1.16	Cathedral
	8,530.00	89.20	1.70	7,038.85	1,039.50	353.97	1,064.36	1.25	Cathedral
	8,594.00	89.60	2.10	7,039.52	1,103.46	356.09	1,128.28	0.88	Cathedral
	8,657.00	89.80	1.90	7,039.85	1,166.42	358.29	1,191.22	0.45	Cathedral
	8,720.00	90.30	1.70	7,039.80	1,229.39	360.27	1,254.15	0.85	Cathedral
	8,783.00	90.80	1.40	7,039.19	1,292.37	361.97	1,317.06	0.93	Cathedral
	8,846.00	90.00	1.40	7,038.75	1,355.35	363.51	1,379.96	1.27	Cathedral
	8,910.00	90.40	1.10	7,038.53	1,419.33	364.91	1,443.85	0.78	Cathedral
	8,973.00	89.80	0.70	7,038.42	1,482.32	365.90	1,506.72	1.14	Cathedral
	9,036.00	90.10	0.60	7,038.47	1,545.32	366.61	1,569.57	0.50	Cathedral
	9,099.00	90.20	0.50	7,038.31	1,608.31	367.22	1,632.42	0.22	Cathedral
	9,163.00	90.30	0.30	7,038.03	1,672.31	367.66	1,696.25	0.35	Cathedral
	9,226.00	90.60	0.20	7,037.53	1,735.31	367.94	1,759.07	0.50	Cathedral
	9,289.00	89.70	0.20	7,037.37	1,798.31	368.16	1,821.89	1.43	Cathedral
	9,352.00	89.80	359.60	7,037.64	1,861.31	368.05	1,884.68	0.97	Cathedral
	9,416.00	90.20	359.50	7,037.64	1,925.30	367.55	1,948.43	0.64	Cathedral
	9,479.00	89.50	358.50	7,037.81	1,988.29	366.45	2,011.14	1.94	Cathedral
	9,543.00	89.80	358.00	7,038.20	2,052.26	364.49	2,074.75	0.91	Cathedral
	9,606.00	89.90	358.50	7,038.37	2,115.23	362.57	2,137.36	0.81	Cathedral
	9,669.00	89.90	358.50	7,038.48	2,178.21	360.92	2,200.01	0.00	Cathedral
	9,732.00	90.20	358.00	7,038.42	2,241.18	358.99	2,262.63	0.93	Cathedral
	9,795.00	89.50	358.20	7,038.59	2,304.15	356.91	2,325.23	1.16	Cathedral
	9,859.00	89.80	357.60	7,038.98	2,368.10	354.56	2,388.80	1.05	Cathedral
	9,922.00	89.80	358.00	7,039.20	2,431.05	352.14	2,451.36	0.63	Cathedral
	9,985.00	90.20	358.90	7,039.20	2,494.03	350.44	2,514.00	1.56	Cathedral
	10,048.00	90.20	359.80	7,038.98	2,557.03	349.72	2,576.74	1.43	Cathedral
	10,111.00	89.80	0.40	7,038.98	2,620.03	349.83	2,639.55	1.14	Cathedral
	10,174.00	89.80	359.40	7,039.20	2,683.02	349.72	2,702.34	1.59	Cathedral
	10,237.00	90.20	359.20	7,039.20	2,746.02	348.95	2,765.07	0.71	Cathedral
	10,301.00	90.30	0.10	7,038.92	2,810.02	348.56	2,828.83	1.41	Cathedral
	10,364.00	90.70	0.90	7,038.37	2,873.01	349.11	2,891.67	1.42	Cathedral
	10,427.00	89.90	0.90	7,038.04	2,936.00	350.10	2,954.54	1.27	Cathedral



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	10,490.00	90.20	0.70	7,037.98	2,999.00	350.98	3,017.41	0.57	Cathedral
	10,553.00	90.40	0.60	7,037.65	3,061.99	351.70	3,080.26	0.35	Cathedral
	10,616.00	89.90	0.40	7,037.49	3,124.99	352.25	3,143.10	0.85	Cathedral
	10,679.00	90.00	0.50	7,037.54	3,187.99	352.74	3,205.94	0.22	Cathedral
	10,742.00	89.80	1.10	7,037.65	3,250.98	353.62	3,268.80	1.00	Cathedral
	10,805.00	89.70	0.90	7,037.93	3,313.97	354.72	3,331.68	0.35	Cathedral
	10,868.00	89.80	0.60	7,038.20	3,376.96	355.54	3,394.54	0.50	Cathedral
	10,931.00	90.10	0.40	7,038.26	3,439.96	356.09	3,457.38	0.57	Cathedral
	10,995.00	90.20	0.40	7,038.09	3,503.96	356.54	3,521.21	0.16	Cathedral
	11,057.00	90.50	0.20	7,037.71	3,565.96	356.87	3,583.04	0.58	Cathedral
	11,120.00	90.00	359.70	7,037.44	3,628.96	356.81	3,645.84	1.12	Cathedral
	11,184.00	89.30	359.20	7,037.83	3,692.95	356.20	3,709.58	1.34	Cathedral
	11,247.00	89.30	359.20	7,038.60	3,755.94	355.32	3,772.30	0.00	Cathedral
	11,310.00	89.20	358.60	7,039.42	3,818.92	354.11	3,834.99	0.97	Cathedral
	11,373.00	89.30	358.90	7,040.25	3,881.90	352.73	3,897.66	0.50	Cathedral
	11,436.00	89.30	358.60	7,041.02	3,944.88	351.36	3,960.33	0.48	Cathedral
	11,499.00	89.50	358.40	7,041.68	4,007.86	349.71	4,022.97	0.45	Cathedral
	11,563.00	89.40	358.50	7,042.29	4,071.83	347.98	4,086.61	0.22	Cathedral
	11,626.00	89.20	358.50	7,043.06	4,134.80	346.33	4,149.25	0.32	Cathedral
	11,689.00	89.20	357.80	7,043.94	4,197.77	344.30	4,211.85	1.11	Cathedral
	11,708.00	89.10	357.80	7,044.22	4,216.75	343.57	4,230.72	0.53	Cathedral
	11,761.00	89.10	357.80	7,045.05	4,269.70	341.53	4,283.34	0.00	Cathedral