

# Continental Resources, Inc.

Weld County, CO  
Sec. 1-T7N-R62W  
Marconi 1-1H

Plan B Rev 0

Survey: Sperry MWD Survey Sidetrack 2

## Sperry Drilling Services Standard Report

06 October, 2011

Well Coordinates: 1,467,312.08 N, 3,343,897.24 E (40° 36' 34.47" N, 104° 15' 40.89" W)  
Ground Level: 4,917.00 ft

Local Coordinate Origin:	Centered on Well Marconi 1-1H
Viewing Datum:	RKB 16 ft. @ 4933.00ft (Cyclone 12)
TVDs to System:	N
North Reference:	True
Unit System:	API - US Survey Feet - Custom

Geodetic Scale Factor Applied  
Version: 2003.16 Build: 43I

**HALLIBURTON**

**Survey Report for Marconi 1-1H - Sperry MWD Survey Sidetrack 2**

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Surface Tie In</b>							
567.00	0.13	31.21	567.00	0.55	0.33	-0.56	0.02
<b>First Sperry MWD Survey @ 567.00 ft - Main Hole</b>							
628.00	0.07	263.53	628.00	0.61	0.33	-0.61	0.30
721.00	0.22	172.07	721.00	0.42	0.30	-0.43	0.25
811.00	0.15	196.67	811.00	0.14	0.29	-0.14	0.12
902.00	0.39	218.67	902.00	-0.22	0.06	0.22	0.28
992.00	0.31	251.45	992.00	-0.53	-0.36	0.54	0.24
1,083.00	0.59	223.72	1,082.99	-0.95	-0.92	0.97	0.38
1,175.00	0.42	269.60	1,174.99	-1.30	-1.58	1.32	0.46
1,267.00	0.25	232.38	1,266.99	-1.42	-2.08	1.46	0.29
1,358.00	0.17	252.00	1,357.99	-1.58	-2.36	1.62	0.12
1,448.00	0.13	246.29	1,447.99	-1.67	-2.58	1.71	0.05
1,542.00	0.31	262.44	1,541.99	-1.74	-2.93	1.79	0.20
1,636.00	0.38	286.93	1,635.99	-1.69	-3.48	1.74	0.17
1,730.00	0.16	316.90	1,729.98	-1.50	-3.87	1.56	0.27
1,823.00	0.34	258.76	1,822.98	-1.46	-4.23	1.53	0.31
1,917.00	0.07	9.46	1,916.98	-1.46	-4.49	1.53	0.39
2,012.00	0.07	132.29	2,011.98	-1.44	-4.44	1.51	0.13
2,105.00	1.01	143.42	2,104.98	-2.13	-3.91	2.20	1.01
2,199.00	0.93	129.68	2,198.96	-3.29	-2.83	3.33	0.26
2,293.00	0.75	136.29	2,292.95	-4.22	-1.82	4.25	0.22
2,387.00	0.51	164.13	2,386.95	-5.06	-1.28	5.09	0.41
2,480.00	0.79	153.72	2,479.94	-6.04	-0.88	6.05	0.33
2,573.00	0.72	159.56	2,572.93	-7.16	-0.39	7.17	0.11
2,667.00	0.92	188.68	2,666.93	-8.46	-0.30	8.46	0.48
2,761.00	0.86	199.41	2,760.91	-9.87	-0.65	9.88	0.19
2,854.00	0.70	177.69	2,853.91	-11.10	-0.86	11.11	0.36
2,948.00	0.80	159.44	2,947.90	-12.29	-0.61	12.29	0.27
3,041.00	0.68	156.33	3,040.89	-13.40	-0.16	13.40	0.14
3,133.00	0.97	172.08	3,132.88	-14.67	0.17	14.66	0.40
3,226.00	0.97	178.68	3,225.87	-16.24	0.30	16.23	0.12
3,320.00	0.24	190.25	3,319.86	-17.23	0.28	17.22	0.78
3,414.00	0.88	158.77	3,413.86	-18.09	0.51	18.08	0.73
3,508.00	0.60	138.32	3,507.85	-19.13	1.10	19.11	0.41
3,601.00	0.53	148.85	3,600.84	-19.86	1.64	19.83	0.13
3,694.00	0.59	120.50	3,693.84	-20.48	2.28	20.44	0.30
3,786.00	0.46	148.69	3,785.84	-21.03	2.88	20.98	0.31
3,880.00	0.35	122.86	3,879.83	-21.51	3.31	21.45	0.22
3,974.00	0.48	134.90	3,973.83	-21.94	3.83	21.88	0.17
4,068.00	0.47	134.02	4,067.83	-22.49	4.39	22.41	0.01
4,161.00	0.56	135.67	4,160.82	-23.08	4.98	22.99	0.10
4,254.00	0.58	154.89	4,253.82	-23.83	5.50	23.74	0.21
4,348.00	0.37	154.88	4,347.82	-24.54	5.83	24.44	0.22
4,442.00	0.31	156.33	4,441.81	-25.04	6.06	24.94	0.06
4,534.00	0.16	79.14	4,533.81	-25.25	6.29	25.14	0.34
4,626.00	0.28	129.16	4,625.81	-25.37	6.59	25.25	0.23
4,720.00	0.14	57.95	4,719.81	-25.45	6.86	25.33	0.29
4,815.00	0.37	65.27	4,814.81	-25.26	7.24	25.14	0.24

**Survey Report for Marconi 1-1H - Sperry MWD Survey Sidetrack 2**

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
4,909.00	0.83	58.82	4,908.81	-24.78	8.10	24.64	0.49
5,002.00	0.76	29.08	5,001.80	-23.89	8.97	23.74	0.44
5,096.00	0.52	38.43	5,095.79	-23.01	9.54	22.85	0.28
5,189.00	0.92	52.70	5,188.78	-22.23	10.40	22.06	0.47
5,283.00	0.92	47.85	5,282.77	-21.27	11.56	21.07	0.08
5,377.00	0.84	50.59	5,376.76	-20.32	12.65	20.11	0.10
5,470.00	1.12	74.84	5,469.75	-19.65	14.05	19.42	0.53
5,564.00	1.31	61.52	5,563.73	-18.90	15.89	18.63	0.36
5,658.00	1.31	66.51	5,657.70	-17.96	17.82	17.66	0.12
5,751.00	1.39	76.57	5,750.68	-17.27	19.89	16.94	0.27
5,845.00	1.03	81.74	5,844.66	-16.89	21.83	16.52	0.40
5,939.00	1.02	76.45	5,938.64	-16.57	23.48	16.18	0.10
6,018.00	1.35	111.49	6,017.62	-16.75	25.03	16.33	0.99
<b>Tie-On to Sperry MWD Survey @ 6018.00 ft - ST 1</b>							
6,037.00	1.48	116.95	6,036.62	-16.94	25.46	16.52	0.99
<b>First Sperry MWD Survey @ 6037.00 ft - ST 1</b>							
6,068.00	2.13	130.64	6,067.60	-17.50	26.25	17.06	2.50
6,099.00	3.28	145.68	6,098.57	-18.60	27.19	18.15	4.33
6,131.00	5.49	164.17	6,130.47	-20.83	28.12	20.37	8.11
6,162.00	7.94	178.45	6,161.26	-24.40	28.59	23.92	9.51
6,193.00	9.61	189.89	6,191.90	-29.09	28.20	28.62	7.77
6,224.00	12.41	194.55	6,222.33	-34.87	26.92	34.42	9.47
6,256.00	15.85	192.61	6,253.35	-42.46	25.10	42.04	10.85
6,287.00	19.26	189.82	6,282.91	-51.63	23.30	51.24	11.33
6,318.00	22.65	190.19	6,311.85	-62.55	21.37	62.19	10.94
6,349.00	26.46	190.73	6,340.04	-75.21	19.03	74.89	12.31
6,381.00	30.87	190.65	6,368.12	-90.29	16.19	90.01	13.78
6,412.00	35.33	189.94	6,394.08	-106.95	13.17	106.71	14.44
6,443.00	39.15	189.00	6,418.75	-125.45	10.09	125.26	12.46
6,474.00	42.43	188.63	6,442.22	-145.46	6.99	145.32	10.61
6,505.00	45.30	188.11	6,464.57	-166.71	3.86	166.62	9.33
6,537.00	47.81	190.05	6,486.57	-189.65	0.19	189.62	8.99
6,568.00	51.23	190.52	6,506.69	-212.84	-4.02	212.88	11.09
6,599.00	55.26	189.08	6,525.24	-237.31	-8.24	237.42	13.52
6,630.00	59.51	187.51	6,541.95	-263.15	-12.00	263.31	14.36
6,661.00	63.35	186.41	6,556.77	-290.16	-15.29	290.38	12.77
6,692.00	67.07	186.58	6,569.77	-318.12	-18.48	318.38	12.01
6,723.00	70.50	187.04	6,580.98	-346.81	-21.90	347.13	11.15
6,754.00	73.97	187.29	6,590.44	-376.10	-25.59	376.47	11.22
6,786.00	77.48	186.94	6,598.33	-406.87	-29.43	407.30	11.02
6,816.00	79.66	186.84	6,604.27	-436.06	-32.95	436.54	7.27
6,848.00	82.05	186.85	6,609.36	-467.42	-36.72	467.97	7.47
6,880.00	84.70	186.57	6,613.05	-498.99	-40.43	499.59	8.33
6,893.00	86.67	186.43	6,614.03	-511.87	-41.90	512.49	15.19
<b>Tie-On to Sperry MWD Survey @ 6893.00 ft - ST 2</b>							
6,971.00	91.30	185.32	6,615.41	-589.43	-49.88	590.17	6.10
7,002.00	91.79	185.20	6,614.57	-620.28	-52.72	621.07	1.63
7,032.00	92.04	185.01	6,613.57	-650.15	-55.39	650.97	1.05
7,093.00	91.11	184.87	6,611.89	-710.90	-60.64	711.80	1.54
7,155.00	90.19	184.55	6,611.19	-772.68	-65.73	773.66	1.57
7,195.00	89.57	183.75	6,611.27	-812.58	-68.62	813.60	2.53

**Survey Report for Marconi 1-1H - Sperry MWD Survey Sidetrack 2**

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
<b>First Sperry MWD Survey @ 7195.00 ft - ST 2</b>							
7,217.00	89.26	183.44	6,611.50	-834.53	-70.00	835.58	1.99
7,248.00	89.81	183.36	6,611.75	-865.48	-71.84	866.55	1.79
7,279.00	88.83	184.35	6,612.12	-896.41	-73.93	897.50	4.49
7,310.00	88.45	186.41	6,612.85	-927.26	-76.83	928.40	6.76
7,341.00	89.01	186.99	6,613.54	-958.04	-80.45	959.24	2.60
7,372.00	89.69	187.21	6,613.89	-988.80	-84.28	990.06	2.31
7,433.00	91.05	186.84	6,613.50	-1,049.34	-91.74	1,050.71	2.31
7,464.00	90.93	186.73	6,612.96	-1,080.12	-95.40	1,081.54	0.53
7,495.00	91.30	186.55	6,612.36	-1,110.90	-98.98	1,112.39	1.33
7,556.00	92.78	186.40	6,610.19	-1,171.47	-105.86	1,173.06	2.44
7,618.00	91.17	184.80	6,608.05	-1,233.14	-111.91	1,234.82	3.66
7,649.00	91.42	184.86	6,607.35	-1,264.02	-114.51	1,265.74	0.83
7,680.00	91.91	184.63	6,606.45	-1,294.90	-117.08	1,296.66	1.75
7,742.00	91.36	184.22	6,604.68	-1,356.69	-121.86	1,358.52	1.11
7,804.00	91.24	183.25	6,603.28	-1,418.54	-125.90	1,420.43	1.58
7,835.00	92.10	183.65	6,602.37	-1,449.47	-127.76	1,451.38	3.06
7,897.00	91.42	183.54	6,600.47	-1,511.32	-131.65	1,513.29	1.11
7,959.00	90.12	183.32	6,599.63	-1,573.20	-135.36	1,575.22	2.13
8,020.00	90.43	183.49	6,599.34	-1,634.09	-138.98	1,636.17	0.58
8,082.00	91.24	183.36	6,598.44	-1,695.97	-142.68	1,698.10	1.32
8,143.00	92.84	183.41	6,596.27	-1,756.83	-146.28	1,759.00	2.62
8,204.00	91.67	183.56	6,593.87	-1,817.67	-149.99	1,819.90	1.93
8,265.00	90.68	183.10	6,592.62	-1,878.55	-153.53	1,880.83	1.79
8,326.00	90.80	182.61	6,591.83	-1,939.47	-156.57	1,941.79	0.83
8,356.00	91.17	182.71	6,591.31	-1,969.43	-157.96	1,971.77	1.28
8,419.00	90.93	181.48	6,590.16	-2,032.38	-160.26	2,034.75	1.99
8,482.00	90.06	180.94	6,589.61	-2,095.36	-161.59	2,097.74	1.63
8,545.00	89.81	180.66	6,589.69	-2,158.35	-162.47	2,160.74	0.60
8,608.00	90.37	180.36	6,589.59	-2,221.35	-163.03	2,223.74	1.01
8,671.00	89.57	177.09	6,589.62	-2,284.33	-161.63	2,286.69	5.34
8,703.00	89.63	176.28	6,589.84	-2,316.27	-159.78	2,318.60	2.54
8,735.00	90.00	176.27	6,589.95	-2,348.20	-157.70	2,350.49	1.16
8,766.00	90.56	177.39	6,589.79	-2,379.16	-155.99	2,381.41	4.04
8,829.00	90.93	176.32	6,588.98	-2,442.06	-152.53	2,444.24	1.80
8,892.00	91.85	175.49	6,587.45	-2,504.87	-148.03	2,506.98	1.97
8,955.00	91.55	176.30	6,585.58	-2,567.68	-143.53	2,569.71	1.37
9,018.00	90.06	176.18	6,584.69	-2,630.54	-139.40	2,632.48	2.37
9,082.00	90.31	175.90	6,584.49	-2,694.39	-134.98	2,696.25	0.59
9,145.00	90.31	176.14	6,584.15	-2,757.24	-130.60	2,759.02	0.38
9,208.00	91.54	174.78	6,583.13	-2,820.03	-125.62	2,821.72	2.91
9,239.00	92.78	174.86	6,581.96	-2,850.88	-122.82	2,852.52	4.01
9,303.00	91.36	175.39	6,579.65	-2,914.60	-117.39	2,916.14	2.37
9,366.00	92.10	177.11	6,577.75	-2,977.44	-113.27	2,978.90	2.97
9,429.00	91.61	177.31	6,575.71	-3,040.33	-110.20	3,041.73	0.84
9,492.00	89.88	177.47	6,574.89	-3,103.26	-107.33	3,104.60	2.76
9,555.00	90.25	177.35	6,574.82	-3,166.19	-104.49	3,167.48	0.62
9,619.00	90.68	176.73	6,574.30	-3,230.10	-101.18	3,231.33	1.18
9,682.00	91.11	176.07	6,573.31	-3,292.97	-97.23	3,294.13	1.25
9,745.00	92.10	176.15	6,571.55	-3,355.80	-92.96	3,356.88	1.58
9,809.00	90.99	176.41	6,569.82	-3,419.64	-88.80	3,420.64	1.78

**Survey Report for Marconi 1-1H - Sperry MWD Survey Sidetrack 2**

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
9,873.00	90.99	176.48	6,568.72	-3,483.51	-84.84	3,484.43	0.11
9,936.00	91.73	176.32	6,567.22	-3,546.37	-80.88	3,547.22	1.20
9,999.00	91.55	178.89	6,565.42	-3,609.28	-78.25	3,610.08	4.09
10,062.00	90.31	180.38	6,564.40	-3,672.27	-77.85	3,673.05	3.08
10,126.00	89.44	180.83	6,564.54	-3,736.26	-78.53	3,737.05	1.53
10,188.00	89.69	180.81	6,565.01	-3,798.25	-79.41	3,799.05	0.40
10,252.00	90.80	180.37	6,564.73	-3,862.25	-80.07	3,863.04	1.87
10,315.00	91.73	179.34	6,563.34	-3,925.23	-79.91	3,926.02	2.20
10,378.00	90.43	180.15	6,562.15	-3,988.22	-79.63	3,988.99	2.43
10,442.00	90.62	180.69	6,561.57	-4,052.21	-80.10	4,052.98	0.89
10,505.00	90.31	181.61	6,561.06	-4,115.20	-81.37	4,115.98	1.54
10,568.00	90.12	182.02	6,560.82	-4,178.17	-83.36	4,178.97	0.72
10,631.00	89.88	182.38	6,560.82	-4,241.12	-85.78	4,241.96	0.69
10,695.00	90.37	183.07	6,560.68	-4,305.05	-88.82	4,305.93	1.32
10,758.00	91.73	182.52	6,559.53	-4,367.96	-91.89	4,368.88	2.33
10,821.00	92.54	182.19	6,557.18	-4,430.86	-94.48	4,431.82	1.39
10,885.00	91.11	183.02	6,555.14	-4,494.76	-97.39	4,495.76	2.58
10,948.00	90.80	182.53	6,554.09	-4,557.68	-100.44	4,558.71	0.92
11,012.00	91.30	182.19	6,552.92	-4,621.61	-103.07	4,622.68	0.94
11,075.00	90.37	182.34	6,552.00	-4,684.56	-105.56	4,685.66	1.50
11,138.00	90.62	182.06	6,551.46	-4,747.51	-107.98	4,748.64	0.60
11,201.00	92.54	181.81	6,549.72	-4,810.44	-110.11	4,811.61	3.07
11,265.00	90.12	181.88	6,548.23	-4,874.39	-112.17	4,875.58	3.78
11,328.00	90.74	181.58	6,547.76	-4,937.36	-114.07	4,938.57	1.09
11,391.00	89.38	182.16	6,547.69	-5,000.32	-116.12	5,001.56	2.35
11,456.00	90.68	182.35	6,547.66	-5,065.27	-118.68	5,066.54	2.02
11,519.00	88.95	182.22	6,547.86	-5,128.22	-121.19	5,129.52	2.75
11,582.00	90.25	183.53	6,548.30	-5,191.13	-124.35	5,192.48	2.93
11,613.00	89.88	182.12	6,548.27	-5,222.10	-125.88	5,223.46	4.70
11,676.00	89.57	182.79	6,548.57	-5,285.04	-128.58	5,286.44	1.17
11,739.00	90.49	182.64	6,548.54	-5,347.97	-131.56	5,349.41	1.48
11,834.00	89.44	183.59	6,548.60	-5,442.82	-136.73	5,444.34	1.49
11,866.00	89.94	183.07	6,548.77	-5,474.77	-138.58	5,476.31	2.25
11,930.00	90.06	182.89	6,548.77	-5,538.68	-141.91	5,540.27	0.34
11,993.00	91.73	182.79	6,547.79	-5,601.59	-145.03	5,603.23	2.66
12,057.00	93.40	182.92	6,544.92	-5,665.45	-148.22	5,667.12	2.62
12,119.00	93.03	183.57	6,541.44	-5,727.25	-151.72	5,728.98	1.20
12,179.00	91.67	182.70	6,538.98	-5,787.11	-155.00	5,788.88	2.69
12,240.00	90.68	181.68	6,537.73	-5,848.05	-157.33	5,849.85	2.33
12,303.00	91.86	181.53	6,536.34	-5,911.01	-159.09	5,912.83	1.89
12,366.00	89.20	180.35	6,535.75	-5,973.99	-160.13	5,975.82	4.62
12,429.00	89.75	179.75	6,536.33	-6,036.99	-160.18	6,038.81	1.29
12,492.00	91.30	179.96	6,535.75	-6,099.98	-160.02	6,101.79	2.48
12,555.00	90.00	179.67	6,535.04	-6,162.98	-159.82	6,164.78	2.11
12,587.00	91.17	179.93	6,534.71	-6,194.97	-159.71	6,196.77	3.75
12,650.00	90.37	180.16	6,533.87	-6,257.97	-159.76	6,259.75	1.32
12,713.00	89.32	179.07	6,534.04	-6,320.96	-159.33	6,322.73	2.40
12,777.00	88.27	179.24	6,535.38	-6,384.94	-158.39	6,386.69	1.66
12,840.00	88.83	178.59	6,536.98	-6,447.91	-157.20	6,449.63	1.36
12,904.00	89.88	177.91	6,537.70	-6,511.88	-155.24	6,513.55	1.95
12,967.00	88.45	178.06	6,538.61	-6,574.83	-153.03	6,576.46	2.28

**Survey Report for Marconi 1-1H - Sperry MWD Survey Sidetrack 2**

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
13,030.00	89.26	179.13	6,539.87	-6,637.80	-151.48	6,639.39	2.13
13,093.00	89.63	178.67	6,540.48	-6,700.78	-150.27	6,702.35	0.94
13,125.00	89.57	178.20	6,540.71	-6,732.77	-149.40	6,734.32	1.48
13,188.00	89.88	179.97	6,541.01	-6,795.76	-148.39	6,797.28	2.85
13,251.00	90.31	178.77	6,540.91	-6,858.75	-147.70	6,860.25	2.02
13,315.00	89.20	179.37	6,541.18	-6,922.74	-146.66	6,924.22	1.97
13,378.00	89.32	179.02	6,541.99	-6,985.73	-145.78	6,987.18	0.59
13,441.00	89.75	178.28	6,542.50	-7,048.71	-144.29	7,050.13	1.36
13,505.00	90.06	177.75	6,542.61	-7,112.67	-142.08	7,114.05	0.96
13,568.00	88.95	177.74	6,543.15	-7,175.62	-139.60	7,176.94	1.76
13,632.00	89.32	177.34	6,544.12	-7,239.55	-136.85	7,240.82	0.85
13,695.00	88.08	176.85	6,545.55	-7,302.45	-133.66	7,303.66	2.12
13,726.00	87.84	176.61	6,546.65	-7,333.38	-131.89	7,334.56	1.09
13,789.00	86.16	177.12	6,549.95	-7,396.20	-128.45	7,397.31	2.79
13,852.00	88.02	177.99	6,553.15	-7,459.06	-125.77	7,460.12	3.26
13,914.00	88.95	178.73	6,554.79	-7,521.01	-123.99	7,522.03	1.92
13,977.00	89.57	178.48	6,555.60	-7,583.99	-122.46	7,584.97	1.06
14,040.00	89.44	179.38	6,556.15	-7,646.97	-121.28	7,647.93	1.44
14,104.00	89.20	179.98	6,556.91	-7,710.97	-120.93	7,711.91	1.01
14,167.00	89.81	179.52	6,557.45	-7,773.96	-120.65	7,774.89	1.21
14,195.00	90.12	179.22	6,557.47	-7,801.96	-120.34	7,802.88	1.54
14,258.00	89.07	180.23	6,557.91	-7,864.96	-120.04	7,865.87	2.31
14,321.00	89.01	179.98	6,558.97	-7,927.95	-120.16	7,928.85	0.41
14,384.00	89.20	181.02	6,559.95	-7,990.94	-120.71	7,991.84	1.68
14,447.00	90.06	181.19	6,560.36	-8,053.92	-121.92	8,054.84	1.39
14,511.00	90.74	181.28	6,559.91	-8,117.91	-123.30	8,118.84	1.07
14,574.00	90.12	180.95	6,559.44	-8,180.89	-124.53	8,181.83	1.11
14,638.00	90.25	180.40	6,559.23	-8,244.89	-125.28	8,245.83	0.88
14,701.00	92.17	180.58	6,557.90	-8,307.87	-125.82	8,308.81	3.06
14,765.00	91.05	180.37	6,556.10	-8,371.84	-126.35	8,372.78	1.78
14,828.00	90.68	181.25	6,555.15	-8,434.82	-127.24	8,435.78	1.52
14,892.00	90.00	181.21	6,554.77	-8,498.81	-128.61	8,499.77	1.06
14,955.00	92.10	181.55	6,553.62	-8,561.78	-130.13	8,562.76	3.38
15,017.00	91.36	181.81	6,551.75	-8,623.72	-131.95	8,624.72	1.27
15,081.00	89.81	181.65	6,551.09	-8,687.69	-133.88	8,688.71	2.43
15,145.00	89.38	181.78	6,551.55	-8,751.66	-135.80	8,752.70	0.70
15,208.00	90.43	181.23	6,551.65	-8,814.63	-137.45	8,815.70	1.88
15,272.00	90.68	180.38	6,551.03	-8,878.62	-138.35	8,879.70	1.38
15,335.00	91.42	179.82	6,549.88	-8,941.61	-138.46	8,942.68	1.47
15,399.00	89.01	180.20	6,549.64	-9,005.61	-138.47	9,006.66	3.81
15,462.00	90.56	180.40	6,549.87	-9,068.60	-138.80	9,069.66	2.48
15,525.00	90.37	179.11	6,549.36	-9,131.60	-138.53	9,132.64	2.07
15,589.00	90.31	179.23	6,548.98	-9,195.59	-137.60	9,196.61	0.21
15,652.00	89.94	179.95	6,548.84	-9,258.59	-137.15	9,259.59	1.28
15,715.00	89.57	180.78	6,549.11	-9,321.59	-137.55	9,322.59	1.44
15,779.00	89.94	179.03	6,549.39	-9,385.58	-137.45	9,386.57	2.79
15,874.00	91.17	177.89	6,548.47	-9,480.54	-134.90	9,481.48	1.77
<b>Final Sperry MWD Survey @ 15874.00 ft - ST 2</b>							
15,909.00	91.17	177.89	6,547.75	-9,515.51	-133.61	9,516.42	0.00
<b>Straight Line Projection to TD @ 15909.00 ft</b>							

**Survey Report for Marconi 1-1H - Sperry MWD Survey Sidetrack 2****Survey Annotations**

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
0.00	0.00	0.00	0.00	Surface Tie In
567.00	567.00	0.55	0.33	First Sperry MWD Survey @ 567.00 ft - Main Hole
6,018.00	6,017.62	-16.75	25.03	Tie-On to Sperry MWD Survey @ 6018.00 ft - ST 1
6,037.00	6,036.62	-16.94	25.46	First Sperry MWD Survey @ 6037.00 ft - ST 1
6,893.00	6,614.03	-511.87	-41.90	Tie-On to Sperry MWD Survey @ 6893.00 ft - ST 2
7,195.00	6,611.27	-812.58	-68.62	First Sperry MWD Survey @ 7195.00 ft - ST 2
15,874.00	6,548.47	-9,480.54	-134.90	Final Sperry MWD Survey @ 15874.00 ft - ST 2
15,909.00	6,547.75	-9,515.51	-133.61	Straight Line Projection to TD @ 15909.00 ft

**Vertical Section Information**

Angle Type	Target	Azimuth (°)	Origin Type	Origin		Start TVD (ft)
				+N/-S (ft)	+E/-W (ft)	
Target	Marconi 1-1H Plan A Rev 0 BH Tgt	180.95	Slot	0.00	0.00	0.00

**Survey tool program**

From (ft)	To (ft)	Survey/Plan	Survey Tool
567.00	0.00	Sperry MWD Survey	MWD
6,037.00	7,711.00	Sperry MWD Survey Sidetrack #1	MWD

**Targets**

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Marconi 1-1 600' Se	0.00	0.00	-5.00	0.00	0.00	1,467,312.08	3,343,897.24	0° 36' 34.473560 N	4° 15' 40.885200 W
- survey misses target center by 5.00ft at 0.00ft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Polygon									
Marconi 1-1 Center	0.00	0.00	-5.00	0.00	0.00	1,467,312.08	3,343,897.24	0° 36' 34.473560 N	4° 15' 40.885200 W
- survey misses target center by 5.00ft at 0.00ft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Polygon									
Marconi 1-1H Plan A	0.00	0.00	6,594.00	-9,568.59	-158.05	1,457,742.44	3,343,872.86	0° 34' 59.923160 N	4° 15' 42.933600 W
- survey misses target center by 74.52ft at 15909.00ft MD (6547.75 TVD, -9515.51 N, -133.61 E)									
- Point									
Marconi 1-1 Section	0.00	0.00	-5.00	0.00	0.00	1,467,312.08	3,343,897.24	0° 36' 34.473560 N	4° 15' 40.885200 W
- survey misses target center by 5.00ft at 0.00ft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Polygon									

**North Reference Sheet for Sec. 1-T7N-R62W - Marconi 1-1H - Plan B Rev 0**

All data is in US Feet unless otherwise stated. Directions and Coordinates are relative to True North Reference.

Vertical Depths are relative to RKB 16 ft. @ 4933.00ft (Cyclone 12). Northing and Easting are relative to Marconi 1-1H

Coordinate System is US State Plane 1983, Colorado Northern Zone using datum North American Datum 1983, ellipsoid GRS 1980

Projection method is Lambert Conformal Conic (2 parallel)

Central Meridian is 105° 30' 0.000000 W°, Longitude Origin: 0° 0' 0.000000 E°, Latitude Origin: 40° 46' 60.000000 N°

False Easting: 3,000,000.00ft, False Northing: 1,000,000.00ft, Scale Reduction: 0.99997642

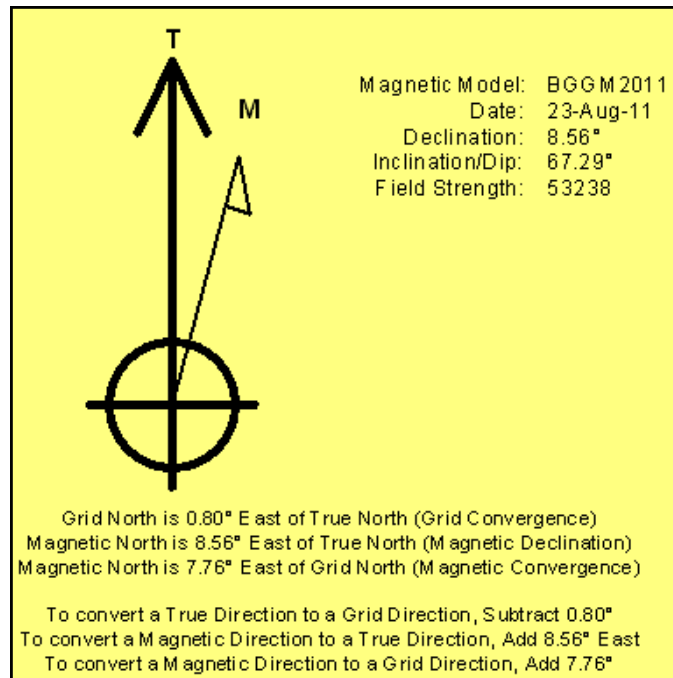
Grid Coordinates of Well: 1,467,312.08 ft N, 3,343,897.24 ft E

Geographical Coordinates of Well: 40° 36' 34.47" N, 104° 15' 40.89" W

Grid Convergence at Surface is: 0.80°

Based upon Minimum Curvature type calculations, at a Measured Depth of 15,909.00ft  
the Bottom Hole Displacement is 9,516.45ft in the Direction of 180.80° (True).

Magnetic Convergence at surface is: -7.76° (23 August 2011, , BGGM2011)







Project: Weld County, CO  
Site: Sec. 1-T7N-R62W  
Well: Marconi 1-1H

# Continental Resources, Inc.

**HALLIBURTON**

Sperry Drilling

