

EOG Resources, Inc.

Weld County, CO

Sec. 22-T11N-R63W

Critter Creek 18-22H

Plan #1

Design: Sperry MWD Survey

Sperry Drilling Services

Standard Report

28 September, 2010

Well Coordinates: 577,527.24 N, 2,296,815.36 E (40° 54' 49.59" N, 104° 25' 34.10" W)

Ground Level: 5,239.00 ft

Local Coordinate Origin:

Centered on Well Critter Creek 18-22H

Viewing Datum:

RKB 25' @ 5264.00ft (True 30)

TVDs to System:

N

North Reference:

True

Unit System:

API - US Survey Feet - Custom

Geodetic Scale Factor Applied

Version: 2003.16 Build: 43I

HALLIBURTON

Design Report for Critter Creek 18-22H - Sperry MWD Survey

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
1,365.00	0.00	0.00	1,365.00	0.00	0.00	0.00	0.00
Surface Casing assumed vertical at 1,365'							
1,407.00	0.35	105.71	1,407.00	-0.03	0.12	0.11	0.83
First Sperry MWD Survey							
1,725.00	0.62	76.28	1,724.99	0.11	2.73	1.70	0.11
2,011.00	1.10	76.46	2,010.96	1.12	6.90	3.67	0.17
2,298.00	0.79	65.38	2,297.92	2.59	11.38	5.48	0.12
2,583.00	0.62	65.51	2,582.89	4.05	14.57	6.46	0.06
2,868.00	0.44	58.40	2,867.88	5.26	16.90	7.07	0.07
3,153.00	0.81	65.47	3,152.86	6.67	19.67	7.81	0.13
3,438.00	0.59	56.13	3,437.84	8.32	22.72	8.56	0.09
3,722.00	0.34	51.69	3,721.83	9.66	24.59	8.77	0.09
4,007.00	0.66	69.13	4,006.82	10.77	26.79	9.37	0.12
4,292.00	1.07	96.75	4,291.79	11.04	30.97	11.89	0.20
4,577.00	1.79	126.04	4,576.70	8.11	37.21	18.19	0.35
4,862.00	1.43	155.34	4,861.60	2.26	42.29	25.94	0.31
5,147.00	1.17	208.14	5,146.53	-3.54	42.40	30.40	0.41
5,432.00	2.06	260.23	5,431.43	-6.97	35.98	28.80	0.57
5,717.00	1.48	152.65	5,716.35	-11.11	32.63	29.74	1.01
6,002.00	1.58	123.86	6,001.25	-16.57	37.58	37.11	0.27
6,287.00	1.13	144.58	6,286.17	-21.05	42.47	43.70	0.23
6,573.00	0.73	95.02	6,572.14	-23.51	45.92	47.81	0.30
6,777.00	0.40	62.79	6,776.13	-23.30	47.85	48.91	0.22
6,790.00	0.33	88.92	6,789.13	-23.27	47.93	48.95	1.37
6,822.00	0.63	107.45	6,821.13	-23.33	48.19	49.16	1.04
6,854.00	3.55	142.15	6,853.10	-24.16	48.96	50.29	9.54
6,886.00	7.24	147.37	6,884.96	-26.64	50.66	53.28	11.62
6,917.00	11.27	146.95	6,915.55	-30.83	53.36	58.22	13.00
6,948.00	15.75	147.06	6,945.68	-36.90	57.31	65.39	14.45
6,979.00	20.08	148.09	6,975.17	-44.95	62.41	74.82	14.00
7,011.00	24.63	149.96	7,004.76	-55.39	68.65	86.80	14.39
7,042.00	29.06	150.44	7,032.41	-67.54	75.61	100.54	14.31
7,074.00	33.34	151.16	7,059.78	-82.01	83.69	116.77	13.43
7,105.00	37.20	151.48	7,085.08	-97.71	92.27	134.27	12.47
7,137.00	40.61	150.34	7,109.98	-115.27	102.05	153.94	10.89
7,168.00	44.07	150.15	7,132.89	-133.39	112.41	174.43	11.17
7,199.00	47.48	150.51	7,154.51	-152.69	123.40	196.22	11.03
7,230.00	50.72	150.67	7,174.80	-173.10	134.91	219.18	10.46
7,261.00	53.83	151.02	7,193.77	-194.51	146.85	243.19	10.07
7,291.00	56.82	151.71	7,210.84	-216.17	158.67	267.30	10.14
7,322.00	60.15	150.61	7,227.04	-239.31	171.42	293.15	11.16
7,353.00	62.55	151.06	7,241.90	-263.06	184.67	319.79	7.85
7,385.00	65.39	150.76	7,255.94	-288.19	198.65	347.94	8.91
7,417.00	68.25	150.60	7,268.54	-313.83	213.06	376.76	8.95
7,448.00	70.75	149.84	7,279.39	-339.03	227.48	405.26	8.39
7,479.00	73.03	150.10	7,289.03	-364.54	242.22	434.20	7.40
7,510.00	75.55	148.87	7,297.42	-390.25	257.38	463.55	8.98
7,541.00	78.02	148.65	7,304.51	-416.05	273.03	493.31	8.00
7,573.00	80.36	149.00	7,310.51	-442.94	289.30	524.29	7.39

Design Report for Critter Creek 18-22H - Sperry MWD Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
7,591.00	82.12	148.81	7,313.25	-458.17	298.48	541.83	9.83
7,631.00	85.56	147.48	7,317.54	-491.94	319.47	581.10	9.21
7,663.00	86.82	146.43	7,319.67	-518.71	336.88	612.74	5.12
7,695.00	87.13	145.38	7,321.36	-545.17	354.79	644.47	3.42
7,728.00	87.53	144.91	7,322.89	-572.22	373.63	677.26	1.87
7,760.00	87.99	144.71	7,324.14	-598.35	392.06	709.08	1.57
7,793.00	88.49	144.54	7,325.16	-625.25	411.15	741.91	1.60
7,825.00	88.68	144.11	7,325.95	-651.23	429.81	773.77	1.47
7,857.00	89.32	143.84	7,326.51	-677.11	448.63	805.65	2.17
7,888.00	90.40	144.21	7,326.58	-702.20	466.84	836.54	3.68
7,920.00	90.77	143.43	7,326.26	-728.02	485.73	868.43	2.70
7,952.00	90.68	142.72	7,325.85	-753.60	504.95	900.36	2.24
7,984.00	90.34	143.22	7,325.57	-779.15	524.22	932.29	1.89
8,016.00	89.97	143.60	7,325.48	-804.84	543.30	964.20	1.66
8,049.00	89.60	145.25	7,325.60	-831.68	562.49	997.06	5.12
8,081.00	89.26	147.84	7,325.92	-858.38	580.13	1,028.79	8.16
8,114.00	89.54	147.29	7,326.27	-886.23	597.83	1,061.43	1.87
8,146.00	90.49	147.72	7,326.26	-913.22	615.02	1,093.09	3.26
8,178.00	91.23	149.09	7,325.78	-940.47	631.78	1,124.67	4.87
8,210.00	92.13	148.47	7,324.84	-967.82	648.36	1,156.21	3.41
8,243.00	91.54	149.26	7,323.78	-996.05	665.42	1,188.72	2.99
8,275.00	91.97	149.35	7,322.80	-1,023.56	681.74	1,220.21	1.37
8,308.00	91.11	149.42	7,321.92	-1,051.95	698.54	1,252.67	2.61
8,340.00	90.06	148.65	7,321.59	-1,079.38	715.01	1,284.20	4.07
8,372.00	89.75	148.45	7,321.64	-1,106.68	731.70	1,315.77	1.15
8,405.00	90.49	149.66	7,321.57	-1,134.99	748.67	1,348.28	4.30
8,437.00	90.22	150.37	7,321.38	-1,162.70	764.66	1,379.71	2.37
8,470.00	89.94	150.15	7,321.33	-1,191.36	781.03	1,412.09	1.08
8,502.00	90.65	150.05	7,321.16	-1,219.10	796.99	1,443.51	2.24
8,534.00	90.80	149.79	7,320.76	-1,246.78	813.02	1,474.94	0.94
8,567.00	91.74	150.37	7,320.03	-1,275.38	829.48	1,507.34	3.35
8,599.00	90.95	150.15	7,319.28	-1,303.16	845.35	1,538.73	2.56
8,632.00	89.69	151.27	7,319.09	-1,331.93	861.49	1,571.06	5.11
8,664.00	90.15	152.27	7,319.14	-1,360.13	876.63	1,602.29	3.44
8,696.00	91.67	153.00	7,318.63	-1,388.54	891.33	1,633.41	5.27
8,729.00	91.11	152.47	7,317.83	-1,417.87	906.45	1,665.48	2.34
8,761.00	91.54	151.84	7,317.09	-1,446.15	921.39	1,696.65	2.38
8,793.00	91.82	151.38	7,316.15	-1,474.29	936.60	1,727.88	1.68
8,825.00	92.68	151.39	7,314.89	-1,502.36	951.91	1,759.13	2.69
8,857.00	91.48	151.23	7,313.73	-1,530.42	967.26	1,790.40	3.78
8,889.00	89.91	150.79	7,313.34	-1,558.40	982.77	1,821.71	5.10
8,922.00	89.88	150.75	7,313.41	-1,587.20	998.89	1,854.04	0.15
8,954.00	90.55	150.86	7,313.29	-1,615.14	1,014.49	1,885.38	2.12
8,986.00	91.48	150.51	7,312.72	-1,643.03	1,030.16	1,916.73	3.11
9,019.00	90.12	150.32	7,312.26	-1,671.73	1,046.45	1,949.09	4.16
9,051.00	88.86	150.32	7,312.54	-1,699.53	1,062.29	1,980.49	3.94
9,083.00	87.99	149.78	7,313.42	-1,727.24	1,078.26	2,011.90	3.20
9,116.00	88.37	149.31	7,314.47	-1,755.68	1,094.98	2,044.34	1.83
9,148.00	88.61	149.35	7,315.31	-1,783.19	1,111.30	2,075.83	0.76
9,180.00	88.98	148.57	7,315.99	-1,810.60	1,127.80	2,107.36	2.70
9,211.00	89.20	148.35	7,316.48	-1,837.02	1,144.01	2,137.95	1.00

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9,243.00	89.63	148.12	7,316.81	-1,864.22	1,160.85	2,169.54	1.52
9,276.00	89.01	149.40	7,317.20	-1,892.44	1,177.97	2,202.08	4.31
9,308.00	89.29	149.62	7,317.67	-1,920.01	1,194.20	2,233.56	1.11
9,340.00	89.66	149.53	7,317.96	-1,947.60	1,210.41	2,265.03	1.19
9,373.00	90.03	148.99	7,318.05	-1,975.96	1,227.27	2,297.52	1.98
9,405.00	90.89	148.36	7,317.80	-2,003.30	1,243.91	2,329.08	3.33
9,437.00	91.05	149.60	7,317.26	-2,030.72	1,260.40	2,360.60	3.91
9,469.00	92.10	150.57	7,316.38	-2,058.44	1,276.35	2,392.01	4.47
9,501.00	91.45	150.76	7,315.38	-2,086.32	1,292.02	2,423.35	2.12
9,533.00	90.00	151.54	7,314.98	-2,114.35	1,307.46	2,454.65	5.15
9,566.00	89.94	151.15	7,315.00	-2,143.31	1,323.28	2,486.91	1.20
9,598.00	89.04	150.99	7,315.28	-2,171.31	1,338.76	2,518.22	2.86
9,630.00	89.60	149.70	7,315.66	-2,199.12	1,354.59	2,549.61	4.39
9,662.00	89.94	149.72	7,315.79	-2,226.75	1,370.73	2,581.07	1.06
9,695.00	90.68	149.04	7,315.61	-2,255.15	1,387.54	2,613.55	3.05
9,727.00	90.00	149.62	7,315.42	-2,282.67	1,403.86	2,645.04	2.79
9,758.00	88.18	149.82	7,315.91	-2,309.44	1,419.49	2,675.52	5.91
9,791.00	89.23	151.01	7,316.66	-2,338.13	1,435.78	2,707.87	4.81
9,823.00	89.41	149.97	7,317.04	-2,365.97	1,451.54	2,739.25	3.30
9,855.00	90.22	150.53	7,317.14	-2,393.76	1,467.42	2,770.65	3.08
9,886.00	89.29	149.88	7,317.28	-2,420.66	1,482.82	2,801.08	3.66
9,918.00	88.16	148.99	7,317.99	-2,448.20	1,499.09	2,832.55	4.49
9,951.00	88.73	150.48	7,318.88	-2,476.69	1,515.72	2,864.98	4.83
9,983.00	88.95	150.01	7,319.53	-2,504.47	1,531.59	2,896.38	1.62
10,015.00	88.30	149.47	7,320.30	-2,532.10	1,547.72	2,927.83	2.64
10,047.00	88.83	149.94	7,321.10	-2,559.72	1,563.85	2,959.28	2.21
10,078.00	89.07	149.21	7,321.67	-2,586.45	1,579.55	2,989.76	2.48
10,111.00	89.66	148.89	7,322.03	-2,614.75	1,596.52	3,022.27	2.03
10,143.00	90.59	148.71	7,321.96	-2,642.12	1,613.10	3,053.82	2.96
10,176.00	90.59	147.30	7,321.62	-2,670.10	1,630.58	3,086.42	4.27
10,208.00	91.38	146.24	7,321.07	-2,696.87	1,648.11	3,118.14	4.13
10,241.00	90.71	145.14	7,320.47	-2,724.12	1,666.71	3,150.92	3.90
10,273.00	91.14	144.88	7,319.96	-2,750.33	1,685.06	3,182.75	1.57
10,306.00	89.76	143.66	7,319.70	-2,777.12	1,704.33	3,215.61	5.58
10,338.00	89.81	142.72	7,319.82	-2,802.74	1,723.50	3,247.53	2.94
10,370.00	89.54	141.38	7,320.00	-2,827.97	1,743.18	3,279.49	4.27
10,403.00	89.51	141.30	7,320.27	-2,853.74	1,763.79	3,312.47	0.26
10,435.00	89.81	140.95	7,320.46	-2,878.65	1,783.88	3,344.45	1.44
10,468.00	90.37	141.02	7,320.41	-2,904.29	1,804.65	3,377.43	1.71
10,500.00	89.72	139.62	7,320.38	-2,928.92	1,825.08	3,409.42	4.82
10,532.00	89.94	138.82	7,320.48	-2,953.15	1,845.98	3,441.42	2.59
10,564.00	90.31	137.26	7,320.41	-2,976.94	1,867.38	3,473.42	5.01
10,597.00	90.71	136.46	7,320.12	-3,001.02	1,889.94	3,506.39	2.71
10,629.00	89.81	134.19	7,319.97	-3,023.78	1,912.44	3,538.31	7.63
10,662.00	90.25	133.54	7,319.95	-3,046.64	1,936.23	3,571.17	2.38
10,694.00	90.87	132.61	7,319.64	-3,068.50	1,959.60	3,602.99	3.49
10,725.00	91.05	133.16	7,319.12	-3,089.59	1,982.31	3,633.80	1.87
10,757.00	91.57	132.34	7,318.39	-3,111.31	2,005.81	3,665.59	3.03
10,790.00	92.38	132.35	7,317.25	-3,133.52	2,030.18	3,698.34	2.45
10,821.00	92.19	130.50	7,316.02	-3,154.01	2,053.41	3,729.03	5.99
10,854.00	91.51	129.21	7,314.95	-3,175.15	2,078.73	3,761.57	4.42

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Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
10,886.00	90.49	128.51	7,314.39	-3,195.22	2,103.64	3,793.05	3.87
10,918.00	88.77	127.94	7,314.60	-3,215.02	2,128.78	3,824.47	5.66
10,951.00	89.18	128.00	7,315.19	-3,235.32	2,154.79	3,856.84	1.26
10,983.00	89.54	127.86	7,315.55	-3,254.99	2,180.03	3,888.22	1.21
11,014.00	88.89	126.43	7,315.97	-3,273.71	2,204.73	3,918.54	5.07
11,047.00	89.35	126.43	7,316.48	-3,293.30	2,231.28	3,950.72	1.39
11,079.00	90.03	125.53	7,316.65	-3,312.10	2,257.18	3,981.88	3.52
11,110.00	90.62	125.51	7,316.48	-3,330.11	2,282.41	4,012.00	1.90
11,143.00	90.59	124.18	7,316.13	-3,348.97	2,309.49	4,043.97	4.03
11,174.00	90.22	123.35	7,315.91	-3,366.19	2,335.26	4,073.86	2.93
11,207.00	90.46	122.03	7,315.71	-3,384.02	2,363.03	4,105.50	4.07
11,238.00	90.59	121.19	7,315.43	-3,400.26	2,389.43	4,135.05	2.74
11,270.00	90.59	120.59	7,315.10	-3,416.69	2,416.89	4,165.44	1.87
11,302.00	91.51	120.35	7,314.51	-3,432.92	2,444.46	4,195.74	2.97
11,334.00	91.51	120.18	7,313.67	-3,449.04	2,472.09	4,226.01	0.53
11,367.00	92.13	119.86	7,312.62	-3,465.54	2,500.65	4,257.17	2.11
11,399.00	93.21	119.99	7,311.13	-3,481.49	2,528.35	4,287.34	3.40
11,431.00	93.52	121.51	7,309.25	-3,497.82	2,555.81	4,317.65	4.84
11,463.00	91.85	121.94	7,307.75	-3,514.63	2,582.99	4,348.15	5.39
11,495.00	89.91	122.14	7,307.26	-3,531.60	2,610.12	4,378.72	6.09
11,527.00	89.72	122.30	7,307.37	-3,548.66	2,637.19	4,409.33	0.78
11,560.00	90.00	122.51	7,307.45	-3,566.35	2,665.05	4,440.93	1.06
11,592.00	90.34	122.37	7,307.35	-3,583.51	2,692.06	4,471.57	1.15
11,624.00	90.56	122.35	7,307.10	-3,600.64	2,719.09	4,502.21	0.69
11,657.00	91.97	122.11	7,306.37	-3,618.23	2,746.99	4,533.77	4.33
11,689.00	93.39	122.14	7,304.87	-3,635.23	2,774.06	4,564.33	4.44
11,721.00	91.51	121.37	7,303.51	-3,652.06	2,801.25	4,594.83	6.35
11,754.00	89.38	121.40	7,303.25	-3,669.24	2,829.42	4,626.25	6.46
11,786.00	89.14	121.27	7,303.66	-3,685.88	2,856.75	4,656.71	0.85
11,819.00	89.82	120.88	7,303.96	-3,702.91	2,885.01	4,688.08	2.38
11,851.00	90.49	120.73	7,303.88	-3,719.30	2,912.49	4,718.45	2.15
11,882.00	91.02	120.29	7,303.47	-3,735.04	2,939.20	4,747.82	2.22
11,915.00	89.50	121.20	7,303.32	-3,751.91	2,967.56	4,779.12	5.37
11,947.00	89.57	121.17	7,303.58	-3,768.48	2,994.93	4,809.56	0.24
11,980.00	91.10	121.52	7,303.39	-3,785.64	3,023.12	4,840.97	4.76
12,011.00	92.07	120.73	7,302.53	-3,801.66	3,049.64	4,870.44	4.03
12,042.00	90.74	121.21	7,301.77	-3,817.61	3,076.22	4,899.88	4.56
12,075.00	90.52	120.81	7,301.40	-3,834.61	3,104.50	4,931.23	1.38
12,107.00	89.14	121.28	7,301.50	-3,851.11	3,131.91	4,961.64	4.56
12,138.00	89.44	121.50	7,301.88	-3,867.25	3,158.37	4,991.16	1.20
12,171.00	89.69	121.30	7,302.13	-3,884.45	3,186.54	5,022.59	0.97
12,203.00	89.79	121.27	7,302.28	-3,901.06	3,213.89	5,053.04	0.33
12,235.00	90.56	121.03	7,302.18	-3,917.62	3,241.27	5,083.47	2.52
12,266.00	91.20	121.05	7,301.71	-3,933.60	3,267.83	5,112.93	2.07
12,299.00	92.19	121.54	7,300.73	-3,950.73	3,296.02	5,144.32	3.35
12,331.00	92.90	121.43	7,299.31	-3,967.43	3,323.28	5,174.78	2.25
12,363.00	93.67	121.09	7,297.48	-3,984.01	3,350.59	5,205.18	2.63
12,395.00	92.34	121.84	7,295.80	-4,000.69	3,377.84	5,235.62	4.77
12,427.00	92.41	121.91	7,294.47	-4,017.57	3,404.99	5,266.15	0.31
12,460.00	91.14	122.21	7,293.45	-4,035.08	3,432.95	5,297.67	3.95

Design Report for Critter Creek 18-22H - Sperry MWD Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
12,492.00	91.51	121.94	7,292.71	-4,052.07	3,460.06	5,328.25	1.43
12,523.00	92.34	122.36	7,291.67	-4,068.55	3,486.29	5,357.88	3.00
12,556.00	91.02	122.33	7,290.70	-4,086.20	3,514.15	5,389.45	4.00
Final Sperry MWD Survey							
12,605.00	91.02	122.33	7,289.83	-4,112.40	3,555.55	5,436.34	0.00
Straight Line Projection to TD							

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
1,365.00	1,365.00	0.00	0.00	Surface Casing assumed vertical at 1,365'
1,407.00	1,407.00	-0.03	0.12	First Sperry MWD Survey
12,556.00	7,290.70	-4,086.20	3,514.15	Final Sperry MWD Survey
12,605.00	7,289.83	-4,112.40	3,555.55	Straight Line Projection to TD

Vertical Section Information

Angle Type	Target	Azimuth (°)	Origin Type	Origin		Start TVD (ft)
				+N/-S (ft)	+E/-W (ft)	
Target	Critter Creek 18-22H Plan #1 BH Tgt	139.17	Slot	0.00	0.00	0.00

Survey tool program

From (ft)	To (ft)	Survey/Plan	Survey Tool
1,365.00	12,605.00	Sperry MWD Surveys	MWD

Design Report for Critter Creek 18-22H - Sperry MWD Survey**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
Critter Creek 18-22H - actual wellpath misses target center by 50.45ft at 12605.00ft MD (7289.83 TVD, -4112.40 N, 3555.55 E) - Point	0.00	0.00	7,307.00	-4,149.18	3,585.52	573,421.69	2,300,450.95	40° 54' 8.590 N	104° 24' 47.408 W
Critter Creek 18-22H - actual wellpath hits target center - Polygon	0.00	0.00	0.00	0.00	0.00	577,527.24	2,296,815.36	40° 54' 49.590 N	104° 25' 34.100 W
Point 1			4,786.00	501.00		578,086.18	2,301,595.06		
Point 2			4,786.00	-4,750.00		572,835.44	2,301,658.65		
Point 3			-501.00	-4,750.00		572,771.41	2,296,371.91		
Point 4			-501.00	501.00		578,022.15	2,296,308.32		
Critter Creek 18-22H - actual wellpath hits target center - Polygon	0.00	0.00	0.00	0.00	0.00	577,527.24	2,296,815.36	40° 54' 49.590 N	104° 25' 34.100 W
Point 1			4,186.00	-99.00		577,478.94	2,301,002.35		
Point 2			4,186.00	-4,150.00		573,428.14	2,301,051.41		
Point 3			99.00	-4,150.00		573,378.65	2,296,964.61		
Point 4			99.00	-99.00		577,429.45	2,296,915.56		
Critter Creek 18-22H - actual wellpath misses target center by 22.01ft at 10142.47ft MD (7321.97 TVD, -2641.67 N, 1612.82 E) - Point	0.00	0.00	7,307.00	-2,650.00	1,599.00	574,896.74	2,298,446.37	40° 54' 23.405 N	104° 25' 13.276 W

North Reference Sheet for Sec. 22-T11N-R63W - Critter Creek 18-22H - Plan #1

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

Vertical Depths are relative to RKB 25' @ 5264.00ft (True 30). Northing and Easting are relative to Critter Creek 18-22H

Coordinate System is US State Plane 1927 (Exact solution), Colorado North 501 using datum NAD 1927 (NADCON CONUS), ellipsoid Clarke 1866

Projection method is Lambert Conformal Conic (2 parallel)

Central Meridian is 105° 30' 0.000 W°, Longitude Origin: 0° 0' 0.000 E°, Latitude Origin: 40° 47' 0.000 N°

False Easting: 2,000,000.00ft, False Northing: 0.00ft, Scale Reduction: 1.00002377

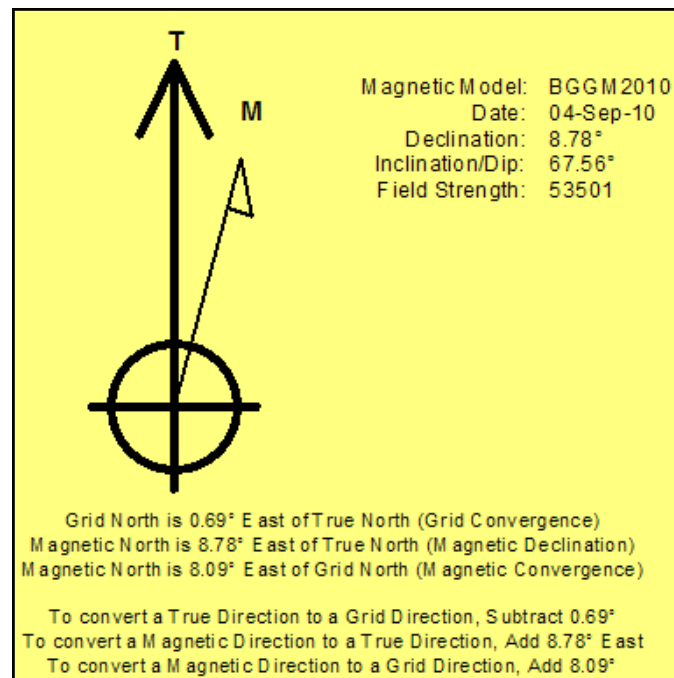
Grid Coordinates of Well: 577,527.24 ft N, 2,296,815.36 ft E

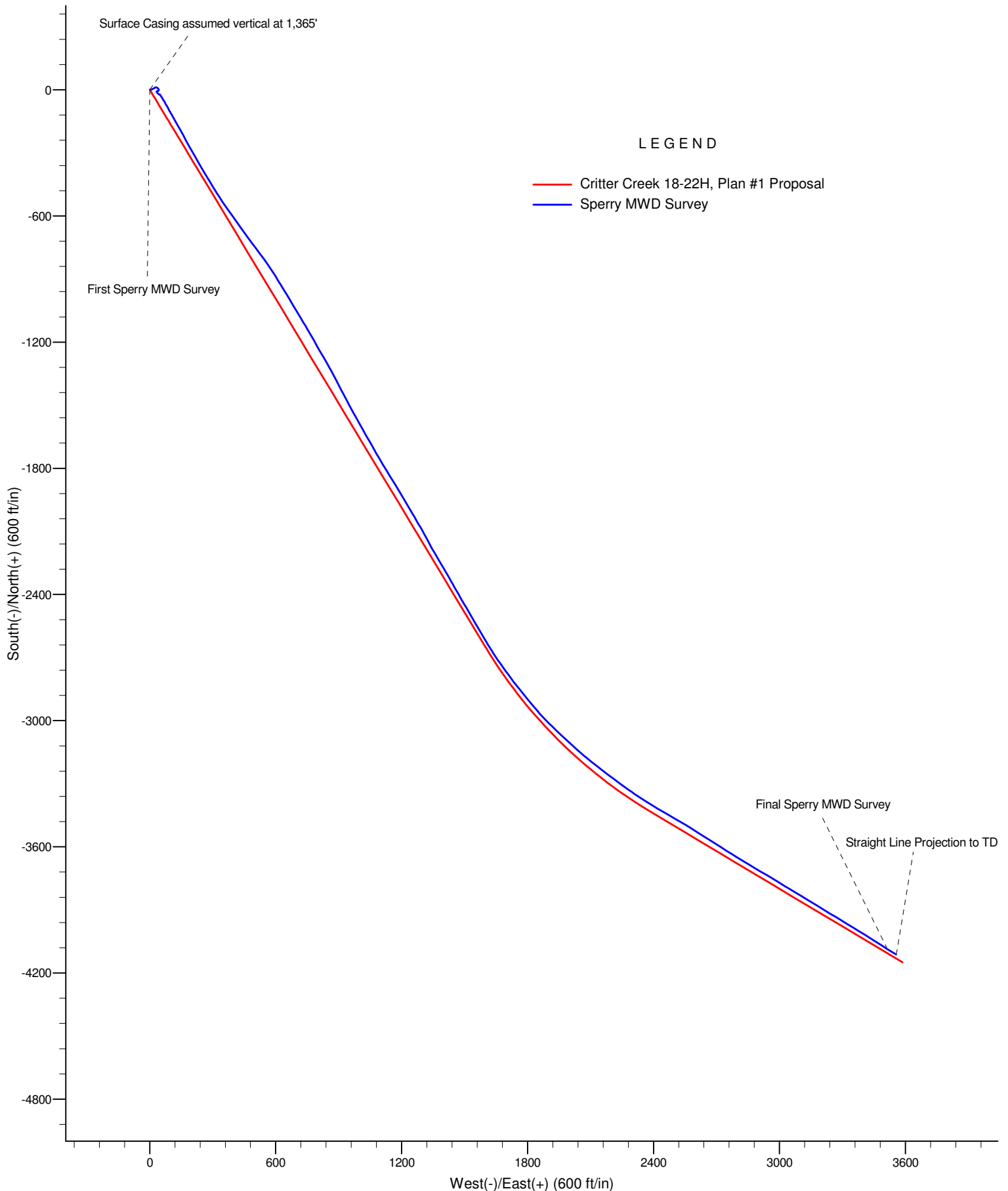
Geographical Coordinates of Well: 40° 54' 49.59" N, 104° 25' 34.10" W

Grid Convergence at Surface is: 0.69°

Based upon Minimum Curvature type calculations, at a Measured Depth of 12,605.00ft
the Bottom Hole Displacement is 5,436.34ft in the Direction of 139.15° (True).

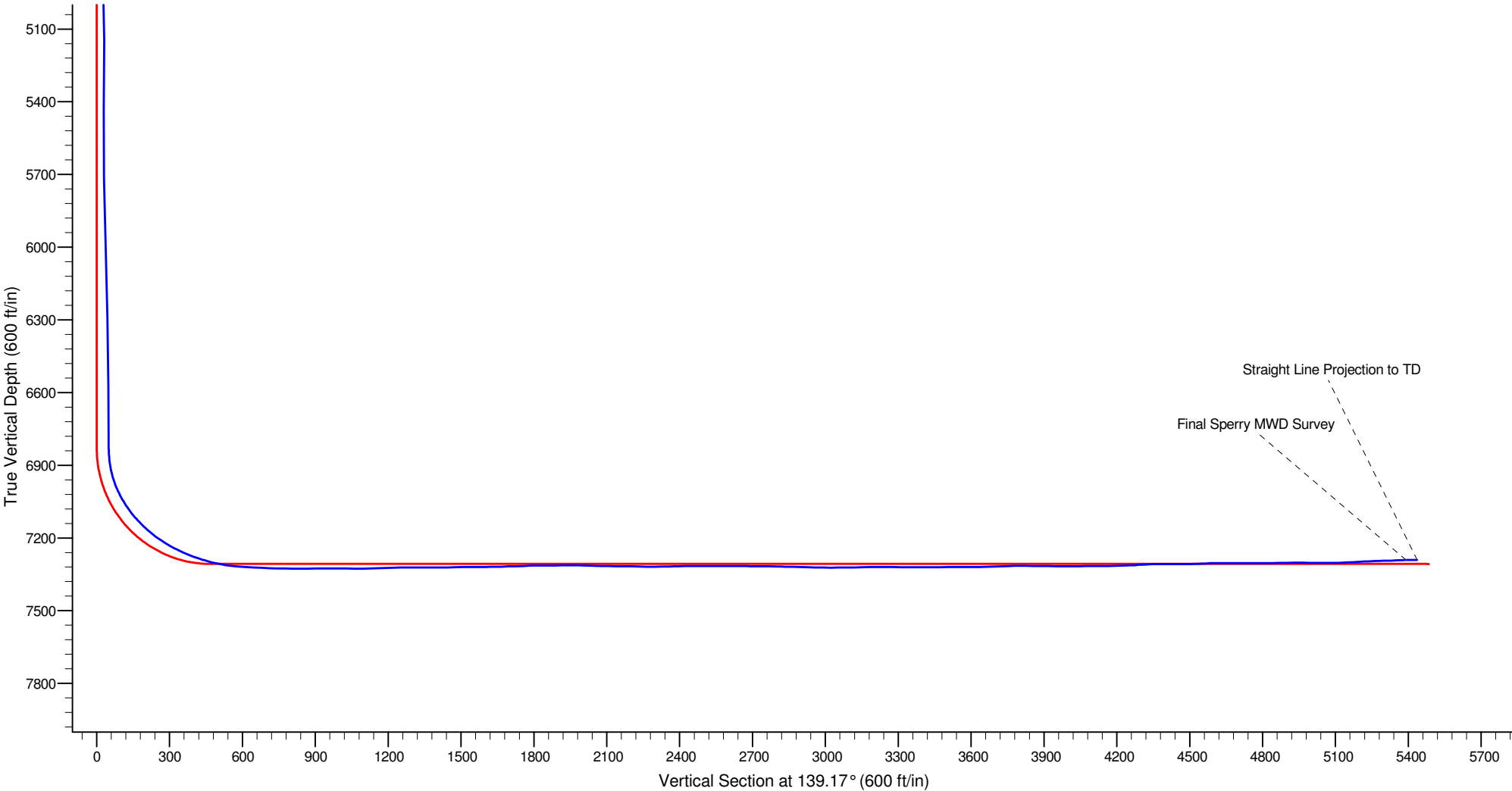
Magnetic Convergence at surface is: -8.09° (4 September 2010, , BGGM2010)





Project: Weld County, CO
Site: Sec. 22-T11N-R63W
Well: Critter Creek 18-22H

EOG Resources, Inc.



LEGEND

- Critter Creek 18-22H, Plan #1 Proposal
- Sperry MWD Survey