



# Weatherford®

## SURVEY REPORT

Report Date: **7/10/2012**  
 Customer: **Shell**  
 Job Name: **4026424**  
 Well Name: **Searcy Gulch 1-27**

Field: **Williams Fork**  
 Rig: **Nabors #94**  
 Rig Loc: **Moffatt County,**

Survey Calculation Method: <b>Minimum Curvature</b>						
Magnetic Reference	Target Direction	Total Magnetic Field	Magnetic Dip Angle	Magnetic Declination	Grid Convergence	Total Correction
<b>True North</b>	<b>236.48 deg</b>	<b>52643 nT</b>	<b>66.50 deg</b>	<b>10.12 deg</b>	<b>0.00 deg</b>	<b>10.12 deg</b>
Survey Tie-On	Depth	INC	AZ	TVD	NS	EW
	<b>0.00 ft</b>	<b>0.00 deg</b>	<b>0.00 deg</b>	<b>0.00 ft</b>	<b>0.00 ft</b>	<b>0.00 ft</b>

Depth (ft)	Inc (deg)	Azm (deg)	TVD (ft)	Well Head			
				NS (ft)	EW (ft)	VSect (ft)	Dogleg (deg/100ft)
119.00	0.09	182.44	119.00	-0.09	0.00	0.05	0.08
212.00	0.25	202.41	212.00	-0.35	-0.08	0.27	0.18
304.00	0.64	203.23	304.00	-1.01	-0.36	0.86	0.42
397.00	0.94	192.25	396.99	-2.23	-0.73	1.84	0.36
490.00	1.38	194.25	489.97	-4.07	-1.17	3.22	0.48
582.00	1.25	190.25	581.94	-6.13	-1.62	4.73	0.17
675.00	1.44	180.12	674.92	-8.29	-1.80	6.08	0.33
747.00	1.19	179.75	746.90	-9.95	-1.80	6.99	0.35
861.00	1.23	177.88	860.87	-12.35	-1.75	8.28	0.05
957.00	1.01	104.51	956.86	-13.59	-0.89	8.25	1.41
1053.00	1.19	55.65	1052.84	-13.24	0.75	6.69	0.96
1148.00	0.88	1.25	1147.83	-11.96	1.58	5.29	1.04
1243.00	0.44	300.50	1242.83	-11.04	1.28	5.03	0.81
1339.00	0.75	267.37	1338.82	-10.88	0.34	5.73	0.47
1434.00	0.88	252.37	1433.81	-11.13	-0.98	6.97	0.26
1529.00	0.31	203.62	1528.81	-11.59	-1.78	7.88	0.75
1624.00	1.06	166.37	1623.80	-12.68	-1.67	8.40	0.88
1718.00	0.50	101.37	1717.79	-13.61	-1.07	8.40	1.02
1814.00	0.13	162.50	1813.79	-13.79	-0.62	8.14	0.47
1909.00	0.50	204.12	1908.79	-14.27	-0.76	8.52	0.43
2004.00	0.81	205.00	2003.78	-15.26	-1.21	9.44	0.33
2100.00	0.63	216.25	2099.77	-16.30	-1.81	10.51	0.24
2194.00	0.13	259.87	2193.77	-16.74	-2.22	11.10	0.58
2289.00	0.38	164.50	2288.77	-17.06	-2.25	11.29	0.43
2385.00	1.00	170.12	2384.76	-18.19	-2.02	11.73	0.65
2417.00	1.44	170.25	2416.76	-18.86	-1.90	12.00	1.38
2449.00	1.81	175.87	2448.74	-19.76	-1.80	12.41	1.26
2480.00	2.69	200.87	2479.72	-20.93	-2.02	13.24	4.19
2512.00	3.94	217.62	2511.67	-22.50	-2.96	14.89	4.90
2544.00	4.81	223.25	2543.57	-24.35	-4.55	17.24	3.03
2576.00	5.88	233.25	2575.43	-26.31	-6.78	20.18	4.42
2608.00	7.06	242.00	2607.23	-28.21	-9.83	23.78	4.80
2640.00	8.00	243.25	2638.95	-30.14	-13.56	27.95	2.98
2671.00	8.94	245.50	2669.62	-32.11	-17.68	32.47	3.21
2704.00	9.56	250.12	2702.19	-34.10	-22.59	37.66	2.93

Depth (ft)	Inc (deg)	Azm (deg)	TVD (ft)	Well Head		VSect (ft)	Dogleg (deg/100ft)
				NS (ft)	EW (ft)		
2735.00	10.63	248.87	2732.71	-36.01	-27.67	42.96	3.52
2767.00	11.31	250.00	2764.12	-38.15	-33.38	48.89	2.23
2796.00	11.82	250.99	2792.53	-40.09	-38.86	54.53	1.89
2828.00	13.13	255.83	2823.78	-42.04	-45.48	61.13	5.23
2859.00	15.15	263.50	2853.84	-43.37	-52.92	68.07	8.87
2892.00	17.63	269.87	2885.50	-43.87	-62.20	76.08	9.27
2924.00	20.56	272.75	2915.73	-43.61	-72.66	84.66	9.62
2956.00	23.63	271.25	2945.38	-43.20	-84.69	94.46	9.75
2987.00	26.31	267.87	2973.48	-43.32	-97.77	105.43	9.79
3019.00	28.69	265.87	3001.87	-44.13	-112.52	118.18	7.98
3051.00	30.75	263.50	3029.66	-45.61	-128.31	132.16	7.41
3083.00	32.50	262.25	3056.90	-47.70	-144.96	147.19	5.84
3115.00	33.88	262.12	3083.68	-50.08	-162.31	162.98	4.32
3147.00	36.38	262.12	3109.85	-52.61	-180.55	179.58	7.81
3173.00	38.75	262.25	3130.46	-54.76	-196.26	193.86	9.12
3256.00	42.17	258.73	3193.61	-63.71	-249.34	243.06	4.95
3287.00	42.74	255.91	3216.48	-68.31	-269.75	262.61	6.41
3319.00	45.79	252.24	3239.40	-74.45	-291.21	283.90	12.44
3351.00	49.50	251.00	3260.96	-81.91	-313.65	306.72	11.94
3382.00	53.25	248.87	3280.30	-90.23	-336.39	330.27	13.23
3414.00	56.69	246.87	3298.67	-100.11	-360.65	355.95	11.91
3445.00	58.88	244.75	3315.20	-110.86	-384.57	381.83	9.13
3477.00	61.13	242.62	3331.20	-123.15	-409.40	409.32	9.09
3509.00	63.25	240.50	3346.13	-136.63	-434.29	437.51	8.84
3541.00	64.88	238.75	3360.12	-151.18	-459.11	466.24	7.08
3572.00	65.38	237.25	3373.16	-166.09	-482.96	494.36	4.68
3604.00	67.06	237.62	3386.06	-181.85	-507.64	523.64	5.36
3636.00	69.25	237.00	3397.97	-197.89	-532.63	553.33	7.08
3665.00	71.72	238.25	3407.66	-212.52	-555.72	580.66	9.44
3696.00	73.46	236.84	3416.93	-228.40	-580.67	610.23	7.09
3728.00	75.50	235.68	3425.49	-245.52	-606.31	641.06	7.27
3760.00	77.00	234.75	3433.10	-263.26	-631.84	672.14	5.47
3792.00	77.63	234.87	3440.13	-281.25	-657.35	703.34	2.00
3824.00	78.19	234.50	3446.83	-299.33	-682.88	734.62	2.08
3855.00	79.19	234.25	3452.91	-317.04	-707.59	764.99	3.32
3887.00	80.25	233.87	3458.62	-335.52	-733.08	796.45	3.51
3919.00	81.13	233.62	3463.80	-354.20	-758.55	827.99	2.86
3951.00	81.88	233.87	3468.52	-372.91	-784.07	859.61	2.47
3983.00	82.63	234.12	3472.83	-391.55	-809.72	891.28	2.47
4015.00	83.00	234.25	3476.84	-410.13	-835.47	923.01	1.22
4046.00	84.06	234.62	3480.33	-428.04	-860.52	953.79	3.62
4078.00	84.88	235.12	3483.41	-446.37	-886.57	985.63	3.00
4110.00	85.94	234.75	3485.97	-464.70	-912.68	1017.51	3.51
4143.00	86.44	234.37	3488.17	-483.79	-939.51	1050.42	1.90
4175.00	87.06	234.75	3489.98	-502.32	-965.53	1082.35	2.27
4206.00	87.56	234.25	3491.44	-520.30	-990.74	1113.30	2.28
4240.00	88.06	234.62	3492.74	-540.06	-1018.38	1147.25	1.83
4271.00	88.44	234.25	3493.68	-558.08	-1043.59	1178.22	1.71
4303.00	88.88	233.50	3494.43	-576.94	-1069.43	1210.18	2.72
4334.00	89.75	232.37	3494.80	-595.62	-1094.16	1241.11	4.60

Depth (ft)	Inc (deg)	Azm (deg)	TVD (ft)	Well Head		VSect (ft)	Dogleg (deg/100ft)
				NS (ft)	EW (ft)		
4366.00	89.94	232.12	3494.89	-615.22	-1119.46	1273.03	0.98
4398.00	91.19	233.37	3494.57	-634.59	-1144.93	1304.96	5.52
4429.00	92.56	234.37	3493.56	-652.85	-1169.95	1335.91	5.47
4461.00	93.44	234.00	3491.88	-671.55	-1195.87	1367.84	2.98
4492.00	93.63	233.50	3489.97	-689.85	-1220.82	1398.74	1.72
4524.00	92.50	235.00	3488.26	-708.52	-1246.75	1430.67	5.86
4555.00	92.31	235.62	3486.96	-726.14	-1272.22	1461.64	2.09
4587.00	92.44	234.75	3485.63	-744.40	-1298.47	1493.60	2.75
4619.00	92.88	235.00	3484.15	-762.79	-1324.61	1525.55	1.58
4650.00	94.31	235.12	3482.21	-780.51	-1349.97	1556.48	4.63
4682.00	95.19	234.87	3479.56	-798.80	-1376.09	1588.36	2.86
4714.00	94.38	234.50	3476.89	-817.24	-1402.11	1620.23	2.78
4746.00	93.50	234.62	3474.69	-835.75	-1428.12	1652.14	2.78
4778.00	92.44	235.37	3473.03	-854.08	-1454.30	1684.09	4.06
4809.00	91.06	235.75	3472.08	-871.60	-1479.85	1715.07	4.62
4841.00	91.33	236.17	3471.42	-889.51	-1506.36	1747.06	1.56
4873.00	91.81	236.12	3470.54	-907.33	-1532.93	1779.05	1.51
4904.00	91.06	235.75	3469.76	-924.69	-1558.60	1810.03	2.70
4936.00	91.50	236.12	3469.05	-942.61	-1585.10	1842.02	1.80
4967.00	92.25	236.00	3468.03	-959.91	-1610.81	1873.01	2.45
4999.00	91.44	235.87	3467.00	-977.82	-1637.30	1904.99	2.56
5031.00	91.69	235.87	3466.13	-995.77	-1663.78	1936.97	0.78
5062.00	91.31	233.62	3465.32	-1013.66	-1689.08	1967.95	7.36
5094.00	91.44	233.00	3464.55	-1032.77	-1714.74	1999.89	1.98
5126.00	91.81	232.87	3463.64	-1052.05	-1740.26	2031.81	1.23
5158.00	92.25	233.37	3462.51	-1071.24	-1765.84	2063.74	2.08
5191.00	93.50	233.87	3460.85	-1090.79	-1792.38	2096.66	4.08
5222.00	94.31	234.12	3458.74	-1108.97	-1817.39	2127.56	2.73
5254.00	94.00	234.75	3456.42	-1127.54	-1843.36	2159.45	2.19
5286.00	93.13	234.75	3454.43	-1145.97	-1869.44	2191.37	2.72
5317.00	92.00	236.12	3453.05	-1163.54	-1894.94	2222.34	5.73
5349.00	92.19	236.87	3451.88	-1181.19	-1921.60	2254.31	2.42
5381.00	91.31	235.00	3450.90	-1199.10	-1948.10	2286.30	6.46
5413.00	90.81	233.25	3450.31	-1217.85	-1974.02	2318.26	5.69
5445.00	91.06	233.50	3449.78	-1236.94	-1999.70	2350.21	1.10
5477.00	91.81	233.62	3448.98	-1255.94	-2025.44	2382.16	2.37
5508.00	92.19	233.75	3447.90	-1274.29	-2050.40	2413.10	1.30
5540.00	91.38	233.87	3446.90	-1293.18	-2076.21	2445.05	2.56
5571.00	91.81	234.25	3446.04	-1311.36	-2101.30	2476.01	1.85
5603.00	92.38	233.75	3444.87	-1330.16	-2127.17	2507.96	2.37
5635.00	93.13	234.25	3443.33	-1348.95	-2153.03	2539.89	2.82
5667.00	92.56	234.12	3441.75	-1367.65	-2178.95	2571.83	1.83
5698.00	93.00	234.50	3440.24	-1385.71	-2204.10	2602.77	1.87
5730.00	92.25	234.25	3438.78	-1404.33	-2230.08	2634.72	2.47
5761.00	92.69	234.50	3437.44	-1422.37	-2255.26	2665.67	1.63
5793.00	93.38	234.50	3435.75	-1440.93	-2281.27	2697.60	2.16
5824.00	92.25	234.87	3434.22	-1458.83	-2306.54	2728.55	3.84
5856.00	92.44	235.00	3432.91	-1477.20	-2332.71	2760.51	0.72
5887.00	92.94	234.87	3431.46	-1494.99	-2358.05	2791.46	1.67
5919.00	92.38	234.75	3429.97	-1513.41	-2384.17	2823.42	1.79

Depth (ft)	Inc (deg)	Azm (deg)	TVD (ft)	Well Head		Vsect (ft)	Dogleg (deg/100ft)
				NS (ft)	EW (ft)		
5951.00	92.69	234.62	3428.56	-1531.89	-2410.26	2855.37	1.05
5982.00	92.25	235.00	3427.22	-1549.74	-2435.57	2886.33	1.87
6014.00	92.63	235.00	3425.86	-1568.07	-2461.76	2918.29	1.19
6047.00	93.06	235.00	3424.22	-1586.98	-2488.76	2951.24	1.30
6078.00	93.50	235.10	3422.45	-1604.71	-2514.13	2982.17	1.46
6110.00	92.31	235.37	3420.83	-1622.93	-2540.38	3014.13	3.81
6141.00	92.56	235.62	3419.51	-1640.48	-2565.90	3045.09	1.14
6173.00	92.63	234.25	3418.06	-1658.84	-2592.07	3077.05	4.28
6205.00	93.06	234.50	3416.47	-1677.46	-2618.05	3108.99	1.55
6237.00	93.69	234.75	3414.59	-1695.95	-2644.09	3140.91	2.12
6268.00	93.06	233.87	3412.76	-1714.00	-2669.23	3171.84	3.49
6300.00	93.56	234.12	3410.92	-1732.78	-2695.07	3203.75	1.75
6332.00	93.69	233.87	3408.89	-1751.56	-2720.91	3235.66	0.88
6363.00	93.00	233.62	3407.08	-1769.86	-2745.86	3266.57	2.37
6395.00	93.56	234.62	3405.25	-1788.58	-2771.75	3298.49	3.58
6427.00	92.69	233.75	3403.51	-1807.28	-2797.66	3330.42	3.84
6458.00	92.81	234.62	3402.02	-1825.40	-2822.77	3361.36	2.83
6490.00	93.38	234.87	3400.29	-1843.84	-2848.86	3393.30	1.94
6522.00	92.69	233.87	3398.60	-1862.46	-2874.83	3425.23	3.79
6554.00	94.00	234.00	3396.73	-1881.26	-2900.65	3457.14	4.11
6585.00	93.31	234.25	3394.76	-1899.39	-2925.72	3488.05	2.37
6617.00	93.81	234.75	3392.77	-1917.94	-2951.72	3519.97	2.21
6649.00	93.44	234.50	3390.75	-1936.43	-2977.76	3551.89	1.39
6681.00	93.94	233.87	3388.69	-1955.12	-3003.66	3583.80	2.51
6713.00	93.44	234.62	3386.63	-1973.77	-3029.57	3615.71	2.81
6744.00	93.88	234.62	3384.65	-1991.69	-3054.80	3646.63	1.42
6776.00	93.25	235.00	3382.66	-2010.09	-3080.90	3678.55	2.30
6807.00	92.31	234.25	3381.16	-2028.02	-3106.14	3709.50	3.88
6839.00	92.75	235.37	3379.74	-2046.44	-3132.27	3741.45	3.76
6870.00	92.13	235.25	3378.42	-2064.07	-3157.74	3772.42	2.04
6901.00	92.50	236.37	3377.17	-2081.47	-3183.36	3803.39	3.80
6933.00	92.19	235.87	3375.86	-2099.30	-3209.90	3835.36	1.84
6964.00	93.00	236.50	3374.46	-2116.53	-3235.63	3866.33	3.31
6996.00	93.69	236.62	3372.59	-2134.14	-3262.29	3898.28	2.19
7028.00	93.38	235.75	3370.62	-2151.91	-3288.82	3930.21	2.88
7060.00	93.00	236.25	3368.84	-2169.78	-3315.31	3962.16	1.96
7091.00	93.44	236.25	3367.10	-2186.97	-3341.05	3993.11	1.42
7123.00	94.04	236.98	3365.01	-2204.54	-3367.71	4025.05	2.95

\*Weatherford Surveys from 119 ft MD to 7123 ft MD.\*

\*TD at 7176 ft MD.\*

The total correction is 10.12 deg relative to True North.