

30-015-40185

RKI Exploration & Production

Eddy County (NM83E)

Sec 35-T25S-R29E

North Brushy Draw Fed 35-3H

Wellbore #1

Survey: MWD Surveys

Standard Survey Report

27 August, 2013

Wolverine Directional, LLC

Survey Report

Company:	RKI Exploration & Production	Local Co-ordinate Reference:	Well North Brushy Draw Fed 35-3H
Project:	Eddy County (NM83E)	TVD Reference:	WELL @ 0.0ft (Original Well Elev)
Site:	Sec 35-T25S-R29E	MD Reference:	WELL @ 0.0ft (Original Well Elev)
Well:	North Brushy Draw Fed 35-3H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 2003.21 Single User Db

Design:	Wellbore #1			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD) (ft)	+N/S (ft)	+E/W (ft)	Direction (°)
	0.0	0.0	0.0	0.03

Survey Program	Date: 2013/08/27			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
100.0	11,800.0	MWD Surveys (Wellbore #1)	MWD	MWD - Standard

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/S (ft)	+E/W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.29	77.47	100.0	0.1	0.2	0.1	0.29	0.29	0.00
First GYRO Survey									
200.0	0.38	86.54	200.0	0.1	0.8	0.1	0.10	0.09	9.08
300.0	0.22	94.37	300.0	0.1	1.3	0.1	0.17	-0.16	7.82
400.0	0.86	48.08	400.0	0.6	2.1	0.6	0.73	0.65	-46.29
500.0	0.88	6.25	500.0	1.9	2.7	1.9	0.62	0.01	-41.83
600.0	0.78	24.58	600.0	3.3	3.1	3.3	0.28	-0.10	18.33
700.0	0.47	4.00	700.0	4.3	3.4	4.3	0.38	-0.31	-20.58
800.0	0.39	337.86	800.0	5.0	3.3	5.0	0.21	-0.07	-26.14
900.0	0.55	348.23	900.0	5.8	3.1	5.8	0.18	0.16	10.37
1,000.0	0.56	310.74	1,000.0	6.6	2.6	6.6	0.36	0.01	-37.49
1,100.0	0.73	323.35	1,099.9	7.4	1.9	7.4	0.22	0.17	12.60
1,200.0	0.61	275.43	1,199.9	8.0	1.0	8.0	0.55	-0.12	-47.91
1,300.0	0.87	253.21	1,299.9	7.8	-0.3	7.8	0.38	0.26	-22.22
1,400.0	0.72	240.58	1,399.9	7.3	-1.6	7.3	0.23	-0.15	-12.64
1,500.0	0.61	219.04	1,499.9	6.6	-2.4	6.6	0.27	-0.11	-21.53
1,600.0	0.90	213.79	1,599.9	5.5	-3.2	5.5	0.30	0.29	-5.26
1,700.0	1.32	232.81	1,699.9	4.1	-4.6	4.1	0.55	0.41	19.02
1,800.0	1.27	226.46	1,799.9	2.7	-6.3	2.7	0.15	-0.05	-6.35
1,900.0	1.36	233.32	1,899.8	1.2	-8.1	1.2	0.18	0.09	6.86
2,000.0	1.36	236.68	1,999.8	-0.2	-10.0	-0.2	0.08	0.01	3.37
2,100.0	1.31	238.62	2,099.8	-1.4	-12.0	-1.4	0.07	-0.05	1.93
2,200.0	1.46	264.15	2,199.8	-2.1	-14.2	-2.1	0.63	0.14	25.53
2,300.0	1.69	268.60	2,299.7	-2.3	-17.0	-2.3	0.26	0.23	4.46
2,400.0	1.53	241.84	2,399.7	-3.0	-19.6	-3.0	0.76	-0.16	-26.76
2,500.0	1.49	194.72	2,499.6	-4.9	-21.1	-4.9	1.21	-0.03	-47.12
2,600.0	1.69	124.12	2,599.6	-6.9	-20.2	-7.0	1.85	0.20	-70.60
2,700.0	2.57	86.39	2,699.6	-7.6	-16.8	-7.6	1.61	0.88	-37.73
2,800.0	3.15	83.40	2,799.4	-7.2	-11.8	-7.2	0.60	0.59	-2.99
2,900.0	3.83	92.61	2,899.2	-7.0	-5.7	-7.0	0.88	0.68	9.21
3,000.0	3.51	104.13	2,999.0	-7.9	0.6	-7.9	0.80	-0.32	11.52
3,100.0	2.58	106.79	3,098.9	-9.3	5.7	-9.3	0.94	-0.93	2.66
3,200.0	1.79	103.49	3,198.8	-10.3	9.4	-10.3	0.79	-0.79	-3.29
3,300.0	1.51	103.61	3,298.8	-11.0	12.2	-11.0	0.28	-0.28	0.11
3,400.0	1.31	104.16	3,398.8	-11.6	14.5	-11.6	0.20	-0.20	0.55
3,500.0	0.91	115.75	3,498.7	-12.2	16.4	-12.2	0.46	-0.41	11.59
3,600.0	0.62	137.52	3,598.7	-12.9	17.4	-12.9	0.40	-0.29	21.77
3,700.0	0.54	143.25	3,698.7	-13.7	18.1	-13.7	0.10	-0.08	5.73

Wolverine Directional, LLC

Survey Report

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Project:	Eddy County (NM83E)	TVD Reference:	WELL @ 0.0ft (Original Well Elev)
Site:	Sec 35-T25S-R29E	MD Reference:	WELL @ 0.0ft (Original Well Elev)
Well:	North Brushy Draw Fed 35-3H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 2003.21 Single User Db

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
3,800.0	0.68	162.88	3,798.7	-14.7	18.5	-14.6	0.25	0.14	19.64	
3,900.0	0.58	160.42	3,898.7	-15.7	18.9	-15.7	0.10	-0.10	-2.46	
4,000.0	0.53	142.72	3,998.7	-16.5	19.3	-16.5	0.18	-0.05	-17.71	
4,100.0	0.55	137.22	4,098.7	-17.3	19.9	-17.3	0.06	0.02	-5.49	
4,200.0	0.50	151.08	4,198.7	-18.0	20.5	-18.0	0.14	-0.05	13.85	
4,300.0	0.45	132.63	4,298.7	-18.7	21.0	-18.6	0.16	-0.05	-18.45	
4,400.0	0.60	140.72	4,398.7	-19.3	21.6	-19.3	0.16	0.14	8.09	
4,500.0	0.52	139.36	4,498.7	-20.1	22.2	-20.1	0.08	-0.08	-1.36	
4,600.0	0.49	125.80	4,598.7	-20.7	22.9	-20.6	0.12	-0.03	-13.55	
4,700.0	0.47	120.93	4,698.7	-21.1	23.6	-21.1	0.05	-0.02	-4.87	
4,800.0	0.49	133.35	4,798.7	-21.6	24.2	-21.6	0.11	0.03	12.42	
4,900.0	0.64	134.89	4,898.7	-22.3	24.9	-22.3	0.14	0.14	1.54	
5,000.0	0.55	126.56	4,998.7	-23.0	25.7	-23.0	0.13	-0.09	-8.33	
5,100.0	0.45	149.63	5,098.7	-23.6	26.3	-23.6	0.22	-0.10	23.07	
5,200.0	0.37	151.22	5,198.7	-24.2	26.6	-24.2	0.07	-0.07	1.59	
5,300.0	0.69	166.75	5,298.6	-25.1	26.9	-25.1	0.34	0.31	15.53	
Last GYRO Survey										
5,310.0	0.82	136.35	5,308.6	-25.2	27.0	-25.2	4.18	1.38	-304.03	
First HAL Survey										
5,340.0	1.01	202.51	5,338.6	-25.6	27.1	-25.6	3.39	0.63	220.55	
5,370.0	1.07	191.21	5,368.6	-26.1	26.9	-26.1	0.71	0.19	-37.67	
5,400.0	0.64	145.93	5,398.6	-26.6	26.9	-26.5	2.56	-1.42	-150.93	
5,430.0	1.09	203.82	5,428.6	-27.0	26.9	-26.9	3.07	1.47	192.96	
5,460.0	0.95	153.45	5,458.6	-27.4	26.9	-27.4	2.92	-0.44	-167.89	
5,490.0	0.49	204.37	5,488.6	-27.8	27.0	-27.8	2.50	-1.54	169.73	
5,520.0	0.92	205.70	5,518.6	-28.1	26.8	-28.1	1.43	1.43	4.44	
5,550.0	1.13	204.97	5,548.6	-28.6	26.6	-28.6	0.70	0.70	-2.44	
5,580.0	1.29	189.65	5,578.6	-29.2	26.4	-29.2	1.20	0.52	-51.09	
5,610.0	0.59	183.91	5,608.6	-29.7	26.3	-29.7	2.36	-2.34	-19.12	
5,640.0	0.96	209.17	5,638.6	-30.1	26.2	-30.0	1.65	1.23	84.20	
5,670.0	0.95	202.48	5,668.6	-30.5	26.0	-30.5	0.37	-0.01	-22.28	
5,700.0	1.25	197.23	5,698.6	-31.1	25.8	-31.0	1.03	0.98	-17.53	
5,730.0	1.23	198.78	5,728.6	-31.7	25.6	-31.7	0.13	-0.06	5.17	
5,760.0	1.07	193.09	5,758.6	-32.2	25.4	-32.2	0.66	-0.54	-18.95	
5,790.0	0.97	202.09	5,788.6	-32.8	25.3	-32.7	0.61	-0.31	30.00	
5,820.0	0.96	193.06	5,818.6	-33.2	25.1	-33.2	0.51	-0.04	-30.10	
5,850.0	0.96	186.01	5,848.6	-33.7	25.0	-33.7	0.40	0.00	-23.50	
5,880.0	0.91	192.10	5,878.6	-34.2	25.0	-34.2	0.38	-0.19	20.30	
5,910.0	0.73	200.33	5,908.6	-34.6	24.8	-34.6	0.71	-0.59	27.43	
5,940.0	0.65	197.19	5,938.6	-35.0	24.7	-35.0	0.30	-0.27	-10.48	
5,970.0	0.77	182.17	5,968.6	-35.3	24.7	-35.3	0.73	0.40	-50.05	
6,000.0	0.75	182.01	5,998.6	-35.7	24.7	-35.7	0.04	-0.04	-0.53	
6,030.0	0.67	189.33	6,028.6	-36.1	24.6	-36.1	0.42	-0.29	24.39	
6,060.0	0.51	183.92	6,058.6	-36.4	24.6	-36.4	0.57	-0.54	-18.02	
6,090.0	0.70	182.17	6,088.6	-36.7	24.6	-36.7	0.66	0.65	-5.84	
6,120.0	0.87	170.80	6,118.5	-37.1	24.6	-37.1	0.76	0.56	-37.91	
6,150.0	0.24	108.28	6,148.5	-37.4	24.7	-37.4	2.62	-2.09	-208.40	
6,180.0	0.38	192.47	6,178.5	-37.5	24.7	-37.5	1.42	0.45	280.65	
6,210.0	0.37	170.08	6,208.5	-37.7	24.7	-37.7	0.48	-0.03	-74.66	
6,240.0	0.38	153.91	6,238.5	-37.9	24.8	-37.8	0.35	0.05	-53.89	
6,270.0	0.77	169.45	6,268.5	-38.1	24.9	-38.1	1.39	1.30	51.80	
6,300.0	1.10	158.26	6,298.5	-38.6	25.0	-38.6	1.27	1.12	-37.29	
6,330.0	0.42	107.03	6,328.5	-38.9	25.2	-38.9	3.01	-2.28	-170.77	
6,360.0	0.57	182.55	6,358.5	-39.1	25.3	-39.1	2.06	0.50	251.74	

Wolverine Directional, LLC

Survey Report

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Design:	Wellbore #1	Database:	EDM 2003.21 Single User Db

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
6,390.0	0.84	178.72	6,388.5	-39.5	25.3	-39.5	0.92	0.90	-12.77
6,420.0	0.82	175.61	6,418.5	-39.9	25.3	-39.9	0.16	-0.06	-10.38
6,450.0	0.91	181.46	6,448.5	-40.4	25.3	-40.3	0.42	0.30	19.49
6,480.0	1.05	178.98	6,478.5	-40.9	25.3	-40.9	0.48	0.46	-8.25
6,510.0	0.99	172.85	6,508.5	-41.4	25.4	-41.4	0.42	-0.20	-20.44
6,540.0	1.04	172.55	6,538.5	-41.9	25.5	-41.9	0.17	0.17	-1.00
6,570.0	1.16	167.15	6,568.5	-42.5	25.6	-42.5	0.53	0.41	-17.99
6,600.0	1.10	175.38	6,598.5	-43.1	25.6	-43.1	0.58	-0.21	27.43
6,630.0	1.15	178.01	6,628.5	-43.7	25.7	-43.6	0.24	0.17	8.77
6,660.0	1.24	178.63	6,658.5	-44.3	25.7	-44.3	0.32	0.32	2.08
6,690.0	1.06	176.80	6,688.5	-44.9	25.7	-44.9	0.63	-0.62	-6.12
6,720.0	1.13	186.28	6,718.5	-45.5	25.7	-45.4	0.65	0.24	31.60
6,750.0	1.10	179.99	6,748.5	-46.0	25.7	-46.0	0.42	-0.11	-20.97
Last HAL Survey									
6,776.0	0.80	168.60	6,774.5	-46.5	25.7	-46.5	1.36	-1.15	-43.81
First MWD Survey									
6,808.0	0.80	349.50	6,806.5	-46.5	25.7	-46.5	5.00	0.00	-559.69
6,839.0	5.20	351.00	6,837.4	-44.9	25.5	-44.9	14.19	14.19	4.84
6,868.0	8.60	359.00	6,866.2	-41.4	25.2	-41.4	12.16	11.72	27.59
6,904.0	10.80	9.80	6,901.7	-35.4	25.7	-35.4	7.91	6.11	30.00
6,936.0	13.40	11.60	6,933.0	-28.8	27.0	-28.8	8.21	8.13	5.63
6,968.0	16.90	14.40	6,963.9	-20.7	28.9	-20.6	11.17	10.94	8.75
6,999.0	21.10	11.40	6,993.2	-10.8	31.1	-10.8	13.91	13.55	-9.68
7,031.0	25.30	10.20	7,022.6	1.6	33.5	1.6	13.21	13.13	-3.75
7,063.0	29.30	9.70	7,051.0	16.0	36.0	16.0	12.52	12.50	-1.56
7,095.0	33.80	9.10	7,078.3	32.5	38.7	32.5	14.10	14.06	-1.88
7,127.0	38.30	8.10	7,104.1	51.1	41.5	51.2	14.18	14.06	-3.13
7,159.0	42.90	7.60	7,128.4	71.8	44.4	71.8	14.41	14.38	-1.56
7,191.0	47.60	6.70	7,150.9	94.3	47.2	94.3	14.82	14.69	-2.81
7,223.0	50.30	3.50	7,172.0	118.3	49.3	118.4	11.31	8.44	-10.00
7,255.0	50.90	0.60	7,192.3	143.0	50.2	143.1	7.25	1.88	-9.06
7,287.0	53.30	358.30	7,211.9	168.3	50.0	168.3	9.40	7.50	-7.19
7,319.0	56.50	357.60	7,230.3	194.5	49.0	194.5	10.16	10.00	-2.19
7,351.0	59.60	357.80	7,247.3	221.6	47.9	221.6	9.70	9.69	0.63
7,382.0	61.90	357.80	7,262.4	248.6	46.9	248.6	7.42	7.42	0.00
7,414.0	64.30	358.50	7,276.9	277.1	46.0	277.2	7.75	7.50	2.19
7,446.0	65.80	358.90	7,290.4	306.1	45.3	306.2	4.82	4.69	1.25
7,477.0	66.30	358.40	7,303.0	334.5	44.6	334.5	2.18	1.61	-1.61
7,509.0	66.60	358.30	7,315.8	363.8	43.8	363.8	0.98	0.94	-0.31
7,541.0	69.40	358.80	7,327.7	393.4	43.1	393.5	8.87	8.75	1.56
7,573.0	72.40	359.10	7,338.2	423.7	42.5	423.7	9.42	9.38	0.94
7,605.0	74.90	359.00	7,347.2	454.4	42.0	454.4	7.82	7.81	-0.31
7,636.0	78.40	359.00	7,354.4	484.5	41.5	484.5	11.29	11.29	0.00
7,668.0	81.50	359.00	7,360.0	516.0	40.9	516.0	9.69	9.69	0.00
7,700.0	84.20	359.20	7,363.9	547.8	40.4	547.8	8.46	8.44	0.63
7,732.0	86.90	359.00	7,366.4	579.7	39.9	579.7	8.46	8.44	-0.63
7,756.0	88.40	358.40	7,367.4	603.6	39.4	603.7	6.73	6.25	-2.50
7,787.0	89.50	358.40	7,368.0	634.6	38.5	634.6	3.55	3.55	0.00
7,818.0	89.50	358.50	7,368.2	665.6	37.7	665.6	0.32	0.00	0.32
7,850.0	90.00	358.50	7,368.4	697.6	36.8	697.6	1.56	1.56	0.00
7,944.0	89.70	359.70	7,368.6	791.6	35.3	791.6	1.32	-0.32	1.28
8,039.0	89.70	0.30	7,369.1	886.6	35.3	886.6	0.63	0.00	0.63
8,133.0	89.80	0.20	7,369.5	980.6	35.8	980.6	0.15	0.11	-0.11
8,229.0	89.50	0.70	7,370.1	1,076.6	36.5	1,076.6	0.61	-0.31	0.52

Wolverine Directional, LLC

Survey Report

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Site:	Sec 35-T25S-R29E	MD Reference:	WELL @ 0.0ft (Original Well Elev)
Well:	North Brushy Draw Fed 35-3H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
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8,324.0	90.20	0.90	7,370.4	1,171.6	37.8	1,171.6	0.77	0.74	0.21
8,419.0	90.60	1.50	7,369.7	1,266.5	39.8	1,266.6	0.76	0.42	0.63
8,513.0	91.20	0.70	7,368.2	1,360.5	41.6	1,360.5	1.06	0.64	-0.85
8,608.0	90.50	0.30	7,366.8	1,455.5	42.5	1,455.5	0.85	-0.74	-0.42
8,704.0	90.30	0.60	7,366.2	1,551.5	43.2	1,551.5	0.38	-0.21	0.31
8,798.0	90.70	0.40	7,365.3	1,645.5	44.0	1,645.5	0.48	0.43	-0.21
8,894.0	89.80	357.60	7,364.9	1,741.4	42.4	1,741.5	3.06	-0.94	-2.92
8,989.0	89.10	357.60	7,365.8	1,836.4	38.4	1,836.4	0.74	-0.74	0.00
9,085.0	89.60	357.00	7,366.9	1,932.2	33.9	1,932.3	0.81	0.52	-0.63
9,179.0	89.70	357.30	7,367.5	2,026.1	29.2	2,026.1	0.34	0.11	0.32
9,275.0	90.90	358.90	7,367.0	2,122.1	26.0	2,122.1	2.08	1.25	1.67
9,369.0	90.30	359.60	7,366.0	2,216.1	24.8	2,216.1	0.98	-0.64	0.74
9,464.0	90.80	3.00	7,365.1	2,311.0	26.9	2,311.0	3.62	0.53	3.58
9,559.0	90.40	3.20	7,364.1	2,405.9	32.1	2,405.9	0.47	-0.42	0.21
9,653.0	90.10	2.90	7,363.7	2,499.7	37.1	2,499.8	0.45	-0.32	-0.32
9,747.0	89.90	2.30	7,363.7	2,593.6	41.3	2,593.7	0.67	-0.21	-0.64
9,842.0	90.80	2.40	7,363.1	2,688.6	45.2	2,688.6	0.95	0.95	0.11
9,937.0	90.90	0.10	7,361.7	2,783.5	47.3	2,783.5	2.42	0.11	-2.42
10,031.0	90.70	359.70	7,360.4	2,877.5	47.1	2,877.5	0.48	-0.21	-0.43
10,124.0	90.50	357.80	7,359.4	2,970.5	45.1	2,970.5	2.05	-0.22	-2.04
10,218.0	90.50	357.40	7,358.6	3,064.4	41.2	3,064.4	0.43	0.00	-0.43
10,313.0	92.50	359.80	7,356.1	3,159.3	38.9	3,159.3	3.29	2.11	2.53
10,409.0	91.30	359.00	7,352.9	3,255.3	37.8	3,255.3	1.50	-1.25	-0.83
10,504.0	90.70	358.10	7,351.3	3,350.2	35.4	3,350.2	1.14	-0.63	-0.95
10,598.0	87.90	357.60	7,352.4	3,444.1	31.9	3,444.1	3.03	-2.98	-0.53
10,693.0	90.00	357.80	7,354.1	3,539.0	28.1	3,539.0	2.22	2.21	0.21
10,788.0	89.90	357.40	7,354.2	3,633.9	24.1	3,634.0	0.43	-0.11	-0.42
10,882.0	90.20	357.80	7,354.1	3,727.9	20.2	3,727.9	0.53	0.32	0.43
10,977.0	89.80	358.30	7,354.1	3,822.8	17.0	3,822.8	0.67	-0.42	0.53
11,069.0	92.00	358.90	7,352.7	3,914.8	14.7	3,914.8	2.48	2.39	0.65
11,163.0	91.70	358.50	7,349.7	4,008.7	12.6	4,008.7	0.53	-0.32	-0.43
11,256.0	91.10	359.10	7,347.4	4,101.6	10.6	4,101.6	0.91	-0.65	0.65
11,353.0	90.60	359.50	7,346.0	4,198.6	9.4	4,198.6	0.66	-0.52	0.41
11,448.0	90.00	0.40	7,345.5	4,293.6	9.4	4,293.6	1.14	-0.63	0.95
11,543.0	90.20	1.00	7,345.3	4,388.6	10.5	4,388.6	0.67	0.21	0.63
11,637.0	91.90	1.80	7,343.6	4,482.6	12.8	4,482.6	2.00	1.81	0.85
11,731.0	89.60	0.30	7,342.3	4,576.5	14.5	4,576.5	2.92	-2.45	-1.60
11,749.0	88.80	359.90	7,342.6	4,594.5	14.6	4,594.5	4.97	-4.44	-2.22
Last MWD Survey									
11,800.0	88.80	359.90	7,343.7	4,645.5	14.5	4,645.5	0.00	0.00	0.00
Proj to TD NBD Fed 35-3H PBHL									

Wolverine Directional, LLC

Survey Report

Company:	RKI Exploration & Production	Local Co-ordinate Reference:	Well North Brushy Draw Fed 35-3H
Project:	Eddy County (NM83E)	TVD Reference:	WELL @ 0.0ft (Original Well Elev)
Site:	Sec 35-T25S-R29E	MD Reference:	WELL @ 0.0ft (Original Well Elev)
Well:	North Brushy Draw Fed 35-3H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 2003.21 Single User Db

Survey Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/S (ft)	+E/W (ft)	
100.0	100.0	0.1	0.2	First GYRO Survey
5,300.0	5,298.6	-25.1	26.9	Last GYRO Survey
5,310.0	5,308.6	-25.2	27.0	First HAL Survey
6,750.0	6,748.5	-46.0	25.7	Last HAL Survey
6,776.0	6,774.5	-46.5	25.7	First MWD Survey
11,749.0	7,342.6	4,594.5	14.6	Last MWD Survey
11,800.0	7,343.7	4,645.5	14.5	Proj to TD

Checked By: _____	Approved By: _____	Date: _____
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