

15-40006

RKI Exploration & Production

Eddy County (NM83E)

Sec 35-T25S-R29E

North Brushy Draw Fed 35-2H

Wellbore #1

Survey: MWD Surveys

Standard Survey Report

08 March, 2013

Wolverine Directional, LLC

Survey Report

Company:	RKI Exploration & Production	Local Co-ordinate Reference:	Well North Brushy Draw Fed 35-2H
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 35-2H	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)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.0	0.0	0.0	179.95

Survey Program	Date 2013/03/08			
From	To	Survey (Wellbore)	Tool Name	Description
(ft)	(ft)			
100.0	11,743.0	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	0.18	52.87	100.0	0.1	0.1	-0.1	0.18	0.18	0.00
First GYRO Survey									
200.0	0.36	85.74	200.0	0.2	0.6	-0.2	0.23	0.18	32.87
300.0	0.35	91.12	300.0	0.2	1.2	-0.2	0.03	-0.01	5.38
400.0	0.34	76.49	400.0	0.3	1.8	-0.3	0.09	-0.01	-14.63
500.0	0.38	29.26	500.0	0.7	2.2	-0.7	0.29	0.04	-47.23
600.0	0.41	336.02	600.0	1.3	2.2	-1.3	0.35	0.03	-53.24
700.0	0.44	303.59	700.0	1.8	1.8	-1.8	0.24	0.03	-32.43
800.0	0.51	271.15	800.0	2.0	1.0	-2.0	0.27	0.07	-32.44
900.0	0.33	265.90	900.0	2.0	0.3	-2.0	0.18	-0.18	-5.25
1,000.0	0.15	300.64	1,000.0	2.1	-0.1	-2.1	0.22	-0.18	34.74
1,100.0	0.32	318.64	1,100.0	2.3	-0.4	-2.3	0.18	0.17	18.00
1,200.0	0.49	316.64	1,200.0	2.9	-0.9	-2.9	0.17	0.17	-2.00
1,300.0	0.59	335.48	1,300.0	3.6	-1.4	-3.6	0.20	0.10	18.84
1,400.0	0.70	350.33	1,400.0	4.7	-1.7	-4.7	0.20	0.11	14.85
1,500.0	0.72	20.36	1,500.0	5.9	-1.6	-5.9	0.37	0.02	30.03
1,600.0	0.89	50.39	1,600.0	7.0	-0.8	-7.0	0.45	0.17	30.03
1,700.0	0.65	63.51	1,699.9	7.7	0.3	-7.7	0.30	-0.24	13.12
1,800.0	0.42	76.64	1,799.9	8.1	1.2	-8.1	0.26	-0.23	13.13
1,900.0	0.47	134.65	1,899.9	7.9	1.8	-7.9	0.43	0.05	58.01
2,000.0	0.51	192.66	1,999.9	7.1	2.0	-7.1	0.48	0.04	58.01
2,100.0	0.44	211.11	2,099.9	6.4	1.7	-6.4	0.17	-0.07	18.45
2,200.0	0.37	243.57	2,199.9	5.9	1.2	-5.9	0.24	-0.07	32.46
2,300.0	0.64	256.08	2,299.9	5.6	0.4	-5.6	0.29	0.27	12.51
2,400.0	0.91	268.58	2,399.9	5.5	-0.9	-5.5	0.32	0.27	12.50
2,500.0	0.58	246.44	2,499.9	5.3	-2.2	-5.3	0.43	-0.33	-22.14
2,600.0	0.20	204.30	2,599.9	4.9	-2.7	-4.9	0.45	-0.38	-42.14
2,700.0	0.73	162.49	2,699.9	4.1	-2.6	-4.1	0.60	0.53	-41.81
2,800.0	1.21	120.67	2,799.9	3.0	-1.5	-3.0	0.82	0.48	-41.82
2,900.0	1.80	116.58	2,899.9	1.7	0.8	-1.7	0.60	0.59	-4.09
3,000.0	2.38	112.49	2,999.8	0.2	4.1	-0.2	0.60	0.58	-4.09
3,100.0	2.35	120.91	3,099.7	-1.6	7.8	1.6	0.35	-0.03	8.42
3,200.0	2.31	127.34	3,199.6	-3.9	11.2	3.9	0.26	-0.04	6.43
3,300.0	1.95	131.31	3,299.5	-6.2	14.1	6.2	0.39	-0.36	3.97
3,400.0	1.58	139.28	3,399.5	-8.4	16.2	8.4	0.44	-0.37	7.97
3,500.0	1.44	140.16	3,499.5	-10.4	17.9	10.4	0.14	-0.14	0.88
3,600.0	1.31	143.04	3,599.4	-12.3	19.4	12.3	0.15	-0.13	2.88
3,700.0	1.20	144.69	3,699.4	-14.0	20.7	14.1	0.12	-0.11	1.65

Wolverine Directional, LLC

Survey Report

Company:	RKI Exploration & Production	Local Co-ordinate Reference:	Well: North Brushy Draw Fed 35-2H
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 35-2H	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	0.99	146.34	3,799.4	-15.6	21.8	15.6	0.21	-0.21	1.65
3,900.0	0.92	139.35	3,899.4	-17.0	22.8	17.0	0.14	-0.07	-6.99
4,000.0	0.94	126.37	3,999.4	-18.0	24.0	18.1	0.21	0.02	-12.98
4,100.0	0.82	132.83	4,099.4	-19.0	25.2	19.0	0.16	-0.12	6.46
4,200.0	0.71	145.30	4,199.3	-20.0	26.1	20.0	0.20	-0.11	12.47
4,300.0	0.87	144.87	4,299.3	-21.1	26.8	21.2	0.16	0.16	-0.43
4,400.0	1.03	144.45	4,399.3	-22.5	27.8	22.5	0.16	0.16	-0.42
4,500.0	0.93	143.78	4,499.3	-23.9	28.8	23.9	0.10	-0.10	-0.67
4,600.0	0.87	143.10	4,599.3	-25.1	29.7	25.2	0.06	-0.06	-0.68
4,700.0	0.69	150.47	4,699.3	-26.3	30.5	26.3	0.21	-0.18	7.37
4,800.0	0.51	153.84	4,799.3	-27.2	31.0	27.2	0.18	-0.18	3.37
4,900.0	0.78	159.18	4,899.3	-28.2	31.4	28.3	0.28	0.27	5.34
5,000.0	1.06	164.52	4,999.3	-29.8	31.9	29.8	0.29	0.28	5.34
5,100.0	1.13	165.12	5,099.2	-31.6	32.4	31.6	0.07	0.07	0.60
5,200.0	1.20	166.52	5,199.2	-33.6	32.9	33.6	0.08	0.07	1.40
5,300.0	0.99	172.29	5,299.2	-35.5	33.3	35.5	0.24	-0.21	5.77
5,400.0	0.78	186.07	5,399.2	-37.0	33.3	37.0	0.30	-0.21	13.78
5,500.0	1.14	191.66	5,499.2	-38.6	33.0	38.7	0.37	0.36	5.59
5,600.0	1.49	195.24	5,599.2	-40.9	32.5	40.9	0.36	0.35	3.58
5,700.0	1.25	186.73	5,699.1	-43.2	32.0	43.2	0.31	-0.24	-8.51
5,800.0	1.02	178.21	5,799.1	-45.2	31.9	45.2	0.28	-0.23	-8.52
5,900.0	0.82	189.93	5,899.1	-46.8	31.8	46.8	0.27	-0.20	11.72
6,000.0	0.63	197.64	5,999.1	-48.0	31.5	48.0	0.21	-0.19	7.71
6,100.0	0.87	189.04	6,099.1	-49.3	31.3	49.3	0.26	0.24	-8.60
6,200.0	1.11	184.43	6,199.1	-51.0	31.1	51.0	0.25	0.24	-4.61
6,300.0	0.76	184.97	6,299.0	-52.6	30.9	52.6	0.35	-0.35	0.54
6,400.0	0.41	193.51	6,399.0	-53.6	30.8	53.7	0.36	-0.35	8.54
6,500.0	0.61	170.81	6,499.0	-54.5	30.8	54.5	0.28	0.20	-22.70
6,600.0	0.82	188.11	6,599.0	-55.7	30.8	55.8	0.30	0.21	17.30
6,700.0	0.84	186.07	6,699.0	-57.2	30.6	57.2	0.04	0.02	-2.04
6,800.0	0.86	184.04	6,799.0	-58.6	30.5	58.7	0.04	0.02	-2.03
Last GYRO Survey									
6,828.0	1.40	193.60	6,827.0	-59.2	30.4	59.2	2.04	1.93	34.14
First MWD Survey									
6,860.0	1.80	185.80	6,859.0	-60.1	30.2	60.1	1.42	1.25	-24.38
6,893.0	4.50	179.80	6,891.9	-61.9	30.2	61.9	8.23	8.18	-18.18
6,925.0	8.90	183.60	6,923.7	-65.6	30.0	65.6	13.81	13.75	11.88
6,957.0	13.30	183.00	6,955.1	-71.8	29.7	71.8	13.75	13.75	-1.88
6,988.0	18.10	179.30	6,984.9	-80.1	29.6	80.2	15.81	15.48	-11.94
7,021.0	22.60	177.70	7,015.9	-91.6	29.9	91.6	13.74	13.64	-4.85
7,052.0	27.30	175.70	7,044.0	-104.7	30.6	104.7	15.40	15.16	-6.45
7,083.0	32.20	175.20	7,070.9	-120.0	31.9	120.0	15.83	15.81	-1.61
7,114.0	35.70	175.90	7,096.6	-137.2	33.2	137.3	11.36	11.29	2.26
7,146.0	37.80	177.00	7,122.2	-156.3	34.4	156.4	6.88	6.56	3.44
7,177.0	40.30	177.80	7,146.3	-175.9	35.3	175.9	8.23	8.06	2.58
7,209.0	42.10	179.00	7,170.4	-196.9	35.9	197.0	6.14	5.63	3.75
7,240.0	42.30	181.30	7,193.3	-217.7	35.8	217.8	5.03	0.65	7.42
7,272.0	41.50	183.70	7,217.2	-239.1	34.9	239.1	5.60	-2.50	7.50
7,304.0	40.50	185.60	7,241.3	-260.0	33.2	260.0	4.99	-3.13	5.94
7,336.0	42.00	183.80	7,265.4	-281.0	31.5	281.1	5.98	4.69	-5.63
7,367.0	46.90	182.60	7,287.5	-302.7	30.3	302.7	16.04	15.81	-3.87
7,398.0	53.40	179.90	7,307.4	-326.5	29.8	326.5	22.00	20.97	-8.71
7,430.0	58.40	178.60	7,325.3	-353.0	30.1	353.0	15.98	15.63	-4.06
7,462.0	61.50	178.30	7,341.3	-380.7	30.9	380.7	9.72	9.69	-0.94

Wolverine Directional, LLC

Survey Report

Company:	RKI Exploration & Production	Local Co-ordinate Reference:	Well North Brushy Draw Fed 35-2H
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 35-2H	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)
7,493.0	64.00	178.10	7,355.5	-408.2	31.7	408.2	8.08	8.06	-0.65
7,524.0	65.90	178.40	7,368.6	-436.3	32.6	436.3	6.19	6.13	0.97
7,556.0	66.20	178.20	7,381.6	-465.5	33.5	465.5	1.10	0.94	-0.63
7,587.0	66.20	178.00	7,394.1	-493.8	34.4	493.9	0.59	0.00	-0.65
7,619.0	68.50	178.10	7,406.5	-523.4	35.4	523.4	7.19	7.19	0.31
7,651.0	72.30	179.20	7,417.2	-553.5	36.1	553.5	12.31	11.88	3.44
7,683.0	74.90	180.10	7,426.2	-584.2	36.3	584.2	8.56	8.13	2.81
7,715.0	78.00	181.00	7,433.7	-615.3	36.0	615.3	10.07	9.69	2.81
7,752.0	83.20	180.90	7,439.8	-651.8	35.4	651.8	14.06	14.05	-0.27
7,784.0	85.30	180.70	7,443.0	-683.6	34.9	683.6	6.59	6.56	-0.63
7,815.0	87.00	180.30	7,445.0	-714.5	34.7	714.6	5.63	5.48	-1.29
7,847.0	88.10	179.30	7,446.4	-746.5	34.8	746.5	4.64	3.44	-3.13
7,879.0	88.00	179.10	7,447.5	-778.5	35.2	778.5	0.70	-0.31	-0.63
7,911.0	89.10	180.10	7,448.3	-810.5	35.5	810.5	4.64	3.44	3.13
7,943.0	89.30	180.30	7,448.8	-842.5	35.3	842.5	0.88	0.63	0.63
7,975.0	89.00	180.00	7,449.2	-874.5	35.3	874.5	1.33	-0.94	-0.94
8,007.0	90.50	180.80	7,449.4	-906.5	35.0	906.5	5.31	4.69	2.50
8,039.0	91.30	181.30	7,448.9	-938.5	34.4	938.5	2.95	2.50	1.56
8,072.0	91.70	181.50	7,448.0	-971.4	33.6	971.5	1.36	1.21	0.61
8,104.0	92.90	182.00	7,446.7	-1,003.4	32.7	1,003.4	4.06	3.75	1.56
8,136.0	93.50	182.60	7,444.9	-1,035.3	31.4	1,035.3	2.65	1.88	1.88
8,168.0	93.50	182.50	7,443.0	-1,067.2	30.0	1,067.3	0.31	0.00	-0.31
8,200.0	93.80	181.90	7,440.9	-1,099.1	28.7	1,099.2	2.09	0.94	-1.88
8,232.0	93.80	182.10	7,438.8	-1,131.0	27.6	1,131.1	0.62	0.00	0.63
8,264.0	93.10	182.60	7,436.9	-1,163.0	26.3	1,163.0	2.69	-2.19	1.56
8,297.0	93.20	182.60	7,435.1	-1,195.9	24.8	1,195.9	0.30	0.30	0.00
8,329.0	93.40	182.90	7,433.2	-1,227.8	23.3	1,227.8	1.13	0.63	0.94
8,361.0	92.40	184.00	7,431.6	-1,259.7	21.4	1,259.7	4.64	-3.13	3.44
8,393.0	90.20	184.40	7,430.9	-1,291.6	19.0	1,291.6	6.99	-6.88	1.25
8,426.0	90.10	184.50	7,430.8	-1,324.5	16.5	1,324.5	0.43	-0.30	0.30
8,457.0	90.10	184.10	7,430.8	-1,355.4	14.1	1,355.4	1.29	0.00	-1.29
8,489.0	89.20	183.20	7,431.0	-1,387.3	12.1	1,387.4	3.98	-2.81	-2.81
8,521.0	88.40	181.70	7,431.6	-1,419.3	10.7	1,419.3	5.31	-2.50	-4.69
8,552.0	88.70	180.50	7,432.4	-1,450.3	10.1	1,450.3	3.99	0.97	-3.87
8,585.0	89.80	180.40	7,432.8	-1,483.3	9.9	1,483.3	3.35	3.33	-0.30
8,615.0	90.20	179.90	7,432.8	-1,513.3	9.8	1,513.3	2.13	1.33	-1.67
8,647.0	91.00	180.00	7,432.5	-1,545.3	9.8	1,545.3	2.52	2.50	0.31
8,678.0	90.90	180.30	7,432.0	-1,576.3	9.7	1,576.3	1.02	-0.32	0.97
8,711.0	89.80	179.30	7,431.8	-1,609.3	9.9	1,609.3	4.50	-3.33	-3.03
8,743.0	90.70	178.90	7,431.6	-1,641.3	10.4	1,641.3	3.08	2.81	-1.25
8,775.0	90.90	180.10	7,431.2	-1,673.3	10.6	1,673.3	3.80	0.63	3.75
8,807.0	90.80	181.80	7,430.7	-1,705.3	10.1	1,705.3	5.32	-0.31	5.31
8,839.0	90.10	182.40	7,430.5	-1,737.2	8.9	1,737.2	2.88	-2.19	1.88
8,871.0	89.60	182.80	7,430.6	-1,769.2	7.5	1,769.2	2.00	-1.56	1.25
8,904.0	89.50	182.00	7,430.8	-1,802.2	6.1	1,802.2	-2.44	-0.30	-2.42
8,936.0	89.10	181.80	7,431.2	-1,834.1	5.0	1,834.2	1.40	-1.25	-0.63
8,968.0	89.70	180.80	7,431.5	-1,866.1	4.3	1,866.1	3.64	1.88	-3.13
9,000.0	88.90	180.00	7,431.9	-1,898.1	4.1	1,898.1	3.54	-2.50	-2.50
9,033.0	87.80	179.70	7,432.9	-1,931.1	4.2	1,931.1	3.45	-3.33	-0.91
9,065.0	88.30	179.00	7,434.0	-1,963.1	4.5	1,963.1	2.69	1.56	-2.19
9,097.0	91.40	177.20	7,434.1	-1,995.1	5.6	1,995.1	11.20	9.69	-5.63
9,129.0	92.40	175.20	7,433.0	-2,027.0	7.7	2,027.0	6.98	3.13	-6.25
9,161.0	92.90	173.80	7,431.5	-2,058.8	10.8	2,058.8	4.64	1.56	-4.38
9,193.0	92.90	172.60	7,429.9	-2,090.5	14.6	2,090.6	3.75	0.00	-3.75

Wolverine Directional, LLC

Survey Report

Company:	RKI Exploration & Production	Local Co-ordinate Reference:	Well North Brushy Draw Fed 35-2H
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 35-2H	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)	
9,226.0	92.60	172.70	7,428.3	-2,123.2	18.8	2,123.2	0.96	-0.91	0.30	
9,257.0	92.20	172.10	7,427.0	-2,153.9	22.9	2,153.9	2.32	-1.29	-1.94	
9,289.0	92.10	172.70	7,425.8	-2,185.6	27.1	2,185.6	1.90	-0.31	1.88	
9,321.0	92.20	173.90	7,424.6	-2,217.4	30.8	2,217.4	3.76	0.31	3.75	
9,353.0	92.80	175.40	7,423.2	-2,249.2	33.8	2,249.2	5.04	1.88	4.69	
9,385.0	92.80	176.20	7,421.7	-2,281.1	36.2	2,281.1	2.50	0.00	2.50	
9,417.0	92.40	177.20	7,420.2	-2,313.0	38.0	2,313.0	3.36	-1.25	3.13	
9,449.0	92.30	177.80	7,418.9	-2,344.9	39.4	2,345.0	1.90	-0.31	1.88	
9,482.0	92.00	178.20	7,417.7	-2,377.9	40.6	2,377.9	1.51	-0.91	1.21	
9,513.0	91.90	180.00	7,416.6	-2,408.9	41.0	2,408.9	5.81	-0.32	5.81	
9,544.0	91.60	180.80	7,415.7	-2,439.9	40.8	2,439.9	2.76	-0.97	2.58	
9,608.0	91.20	182.80	7,414.1	-2,503.8	38.8	2,503.8	3.19	-0.63	3.13	
9,671.0	90.80	183.70	7,413.0	-2,566.7	35.2	2,566.7	1.56	-0.63	1.43	
9,733.0	90.20	183.80	7,412.4	-2,628.6	31.2	2,628.6	0.98	-0.97	0.16	
9,797.0	90.10	182.90	7,412.3	-2,692.5	27.4	2,692.5	1.41	-0.16	-1.41	
9,828.0	90.20	182.90	7,412.2	-2,723.4	25.9	2,723.4	0.32	0.32	0.00	
9,861.0	90.70	182.90	7,411.9	-2,756.4	24.2	2,756.4	1.52	1.52	0.00	
9,924.0	91.70	182.10	7,410.6	-2,819.3	21.5	2,819.3	2.03	1.59	-1.27	
10,020.0	92.50	180.70	7,407.1	-2,915.2	19.1	2,915.2	1.68	0.83	-1.46	
10,116.0	93.80	180.80	7,401.8	-3,011.0	17.9	3,011.1	1.36	1.35	0.10	
10,213.0	90.80	180.00	7,397.9	-3,108.0	17.2	3,108.0	3.20	-3.09	-0.82	
10,306.0	91.30	180.40	7,396.2	-3,200.9	16.9	3,200.9	0.69	0.54	0.43	
10,402.0	93.00	178.20	7,392.6	-3,296.8	18.0	3,296.9	2.89	1.77	-2.29	
10,499.0	93.10	180.60	7,387.5	-3,393.7	19.0	3,393.7	2.47	0.10	2.47	
10,594.0	91.50	182.90	7,383.7	-3,488.6	16.1	3,488.6	2.95	-1.68	2.42	
10,691.0	89.00	183.00	7,383.2	-3,585.4	11.2	3,585.4	2.58	-2.58	0.10	
10,787.0	88.90	181.80	7,385.0	-3,681.3	7.1	3,681.3	1.25	-0.10	-1.25	
10,883.0	89.40	181.90	7,386.4	-3,777.3	4.0	3,777.3	0.53	0.52	0.10	
10,979.0	90.50	182.90	7,386.5	-3,873.2	0.0	3,873.2	1.55	1.15	1.04	
11,074.0	90.90	180.80	7,385.3	-3,968.1	-3.0	3,968.1	2.25	0.42	-2.21	
11,171.0	91.50	181.00	7,383.3	-4,065.1	-4.6	4,065.1	0.65	0.62	0.21	
11,266.0	92.30	179.90	7,380.2	-4,160.0	-5.3	4,160.0	1.43	0.84	-1.16	
11,362.0	90.20	180.00	7,378.1	-4,256.0	-5.2	4,256.0	2.19	-2.19	0.10	
11,459.0	89.90	180.40	7,378.0	-4,353.0	-5.6	4,353.0	0.52	-0.31	0.41	
11,555.0	90.60	179.80	7,377.6	-4,449.0	-5.7	4,449.0	0.96	0.73	-0.63	
11,652.0	91.70	177.90	7,375.6	-4,546.0	-3.8	4,545.9	2.26	1.13	-1.96	
11,689.0	91.90	177.70	7,374.4	-4,582.9	-2.4	4,582.9	0.76	0.54	-0.54	
Last MWD Survey										
11,743.0	91.90	177.70	7,372.7	-4,636.8	-0.2	4,636.8	0.00	0.00	0.00	
Proj to TD - NBD Fed 35-2H PBHL										

Survey Annotations:					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
100.0	100.0	0.1	0.1	First GYRO Survey	
6,800.0	6,799.0	-58.6	30.5	Last GYRO Survey	
6,828.0	6,827.0	-59.2	30.4	First MWD Survey	
11,689.0	7,374.4	-4,582.9	-2.4	Last MWD Survey	
11,743.0	7,372.7	-4,636.8	-0.2	Proj to TD	

Wolverine Directional, LLC

Survey Report

Company:	RKI Exploration & Production	Local Co-ordinate Reference:	Well North Brushy Draw Fed 35-2H
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 35-2H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 2003.21 Single User Db

Checked By: _____ Approved By: _____ Date: _____