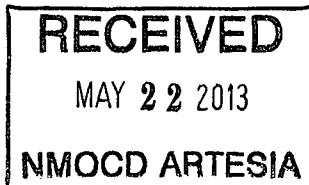




P. O. Box 691017, TULSA, OKLAHOMA 74169 PHONE: 918-355-4380 FAX: 918-855-4666

October 26, 2012

RKI Exploration
3817 NW Expressway, Suite 950
Oklahoma City, OK 73112



RE: RDX 16-10H

30-015-38292

To whom it may concern:

The attached document shows Deviation Surveys for the above captioned well.

Thank you,

Jessica Green

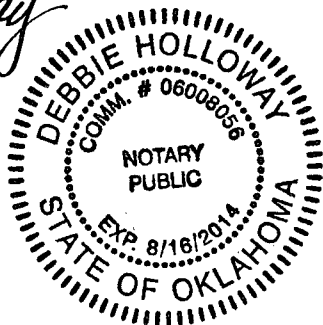
Jessica Green
Operations Coordinator
Latshaw Drilling Company
(918) 355-4380 X 111

State of New Mexico

County: Eddy

The foregoing was acknowledged before me this 26th day of October, 2012

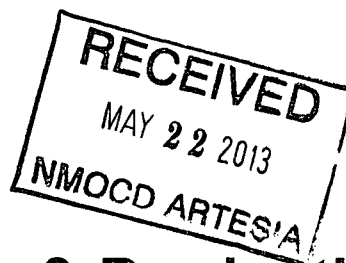
Debbie Holloway
Notary Public



INCLINATION REPORT	
 Latshaw DRILLING	2. LEASE NAME RDX 16-10H
3. OPERATOR RKI Exploration	
4. ADDRESS Oklahoma Tower 210 Park Avenue, Suite 800 Oklahoma City, OK 73102	
5. LOCATION (Section, Block, and Survey)	10. County Eddy

RECORD OF INCLINATION

Date	Measured Depth (feet)	Inclination			
9/19/2012	430	2.00			
9/20/2012	1,221	1.70			
9/20/2012	1,921	1.10			
9/21/2012	2,721	0.60			
9/21/2012	3,021	2.50			
9/23/2012	3,726	2.10			
9/24/2012	4,626	1.50			
9/24/2012	5,526	1.10			
9/25/2012	6,326	1.20			
9/29/2012	7,318	11.30			
10/2/2012	8,256	92.50			
10/2/2012	9,222	92.10			
10/3/2012	10,011	93.50			
10/5/2012	11,008	93.00			
10/6/2012	11,971	92.40			



RKI Exploration & Production

Eddy County (NM83E)

Sec 16-T26S-R30E

RDX 16-10H

Wellbore #1

Survey: MWD Surveys

Standard Survey Report

06 October, 2012

Wolverine Directional, LLC

Survey Report

Company:	RKI Exploration & Production	Local Co-ordinate Reference:	Well: RDX-16-10H
Project:	Eddy County (NM83E)	TVD Reference:	WELL @ 0.0ft (Original Well Elev)
Site:	Sec 16-T26S-R30E	MD Reference:	WELL @ 0.0ft (Original Well Elev)
Well:	RDX-16-10H	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	181.83

Survey Program	Date 2012/10/06			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
100.0	12,022.0	MWD Surveys (Wellbore #1)	MWD	MWD - Standard

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	0.42	263.98	100.0	0.0	-0.4	0.1	0.42	0.42	0.00
First GYRO Survey									
200.0	0.45	256.19	200.0	-0.2	-1.1	0.2	0.07	0.03	-7.79
300.0	0.54	191.76	300.0	-0.7	-1.6	0.8	0.53	0.09	-64.43
400.0	0.94	160.94	400.0	-2.0	-1.4	2.0	0.55	0.40	-30.82
500.0	0.97	152.43	500.0	-3.5	-0.8	3.5	0.14	0.03	-8.51
600.0	0.96	146.33	600.0	-4.9	0.1	4.9	0.10	-0.01	-6.10
700.0	1.05	135.69	699.9	-6.3	1.2	6.2	0.21	0.09	-10.64
800.0	1.53	121.10	799.9	-7.6	3.0	7.5	0.58	0.48	-14.59
900.0	1.63	114.21	899.9	-8.9	5.4	8.7	0.21	0.10	-6.89
1,000.0	1.00	134.68	999.9	-10.1	7.3	9.9	0.78	-0.63	20.47
1,100.0	0.96	184.99	1,099.8	-11.6	7.9	11.3	0.83	-0.04	50.31
1,200.0	1.52	230.08	1,199.8	-13.2	6.8	13.0	1.08	0.56	45.09
1,300.0	1.53	232.12	1,299.8	-14.9	4.7	14.7	0.06	0.01	2.04
1,400.0	1.58	229.10	1,399.7	-16.6	2.6	16.5	0.10	0.05	-3.02
1,500.0	1.16	216.14	1,499.7	-18.4	1.0	18.3	0.52	-0.42	-12.96
1,600.0	1.43	198.46	1,599.7	-20.4	0.0	20.3	0.48	0.27	-17.68
1,700.0	1.56	201.11	1,699.7	-22.8	-0.9	22.8	0.15	0.13	2.65
1,800.0	1.49	215.48	1,799.6	-25.1	-2.1	25.2	0.39	-0.07	14.37
1,900.0	1.32	218.20	1,899.6	-27.1	-3.6	27.2	0.18	-0.17	2.72
2,000.0	1.41	219.17	1,999.6	-29.0	-5.1	29.1	0.09	0.09	0.97
2,100.0	1.35	216.75	2,099.5	-30.9	-6.6	31.0	0.08	-0.06	-2.42
2,200.0	1.41	199.91	2,199.5	-33.0	-7.7	33.2	0.41	0.06	-16.84
2,300.0	1.18	195.65	2,299.5	-35.1	-8.4	35.4	0.25	-0.23	-4.26
2,400.0	0.88	154.07	2,399.5	-36.8	-8.3	37.0	0.78	-0.30	-41.58
2,500.0	1.00	149.43	2,499.5	-38.2	-7.5	38.4	0.14	0.12	-4.64
2,600.0	0.80	150.22	2,599.4	-39.6	-6.8	39.8	0.20	-0.20	0.79
2,700.0	0.73	144.18	2,699.4	-40.7	-6.0	40.9	0.11	-0.07	-6.04
2,800.0	0.67	148.83	2,799.4	-41.7	-5.4	41.9	0.08	-0.06	4.65
2,900.0	1.35	122.68	2,899.4	-42.9	-4.1	43.0	0.80	0.68	-26.15
3,000.0	2.46	122.92	2,999.4	-44.7	-1.3	44.7	1.11	1.11	0.24
3,100.0	2.25	126.09	3,099.3	-47.0	2.1	46.9	0.25	-0.21	3.17
3,200.0	3.62	128.05	3,199.1	-50.1	6.2	49.9	1.37	1.37	1.96
3,300.0	4.18	130.62	3,298.9	-54.4	11.4	54.0	0.59	0.56	2.57
3,400.0	3.63	136.72	3,398.7	-59.1	16.4	58.5	0.69	-0.55	6.10
3,500.0	2.75	141.00	3,498.5	-63.3	20.1	62.6	0.91	-0.88	4.28
3,600.0	2.42	145.20	3,598.4	-66.9	22.8	66.1	0.38	-0.33	4.20
3,700.0	2.33	142.93	3,698.3	-70.2	25.2	69.4	0.13	-0.09	-2.27

Wolverine Directional, LLC

Survey Report

Company:	RKI Exploration & Production	Local Co-ordinate Reference:	Well: RDX-16-10H
Project:	Eddy County (NM83E)	TVD Reference:	WELL @ 0.0ft (Original Well Elev)
Site:	Sec 16-T26S-R30E	MD Reference:	WELL @ 0.0ft (Original Well Elev)
Well:	RDX-16-10H	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	2.08	137.35	3,798.3	-73.2	27.7	72.2	0.33	-0.25	-5.58	
3,900.0	2.17	136.29	3,898.2	-75.9	30.2	74.9	0.10	0.09	-1.06	
4,000.0	1.91	139.16	3,998.1	-78.5	32.6	77.4	0.28	-0.26	2.87	
4,100.0	1.72	140.54	4,098.1	-80.9	34.6	79.8	0.19	-0.19	1.38	
4,200.0	1.72	139.54	4,198.0	-83.2	36.6	82.0	0.03	0.00	-1.00	
4,300.0	1.71	141.30	4,298.0	-85.5	38.5	84.2	0.05	-0.01	1.76	
4,400.0	1.45	139.28	4,397.9	-87.6	40.2	86.3	0.27	-0.26	-2.02	
4,500.0	1.33	136.04	4,497.9	-89.4	41.9	88.1	0.14	-0.12	-3.24	
4,600.0	1.32	136.57	4,597.9	-91.1	43.5	89.7	0.02	-0.01	0.53	
4,700.0	1.17	139.38	4,697.9	-92.7	44.9	91.2	0.16	-0.15	2.81	
4,800.0	1.06	145.08	4,797.8	-94.3	46.1	92.7	0.16	-0.11	5.70	
4,900.0	0.97	143.76	4,897.8	-95.7	47.1	94.1	0.09	-0.09	-1.32	
5,000.0	0.91	140.45	4,997.8	-97.0	48.1	95.4	0.08	-0.06	-3.31	
5,100.0	1.17	121.58	5,097.8	-98.1	49.5	96.5	0.43	0.26	-18.87	
5,200.0	1.26	122.08	5,197.8	-99.3	51.3	97.6	0.09	0.09	0.50	
5,300.0	1.13	131.95	5,297.8	-100.5	53.0	98.8	0.24	-0.13	9.87	
5,400.0	1.06	133.93	5,397.7	-101.8	54.4	100.0	0.08	-0.07	1.98	
5,500.0	1.07	133.26	5,497.7	-103.1	55.7	101.2	0.02	0.01	-0.67	
5,600.0	1.14	133.42	5,597.7	-104.4	57.1	102.5	0.07	0.07	0.16	
5,700.0	1.34	134.89	5,697.7	-105.9	58.7	104.0	0.20	0.20	1.47	
5,800.0	1.46	137.40	5,797.6	-107.7	60.4	105.7	0.13	0.12	2.51	
5,900.0	1.45	137.01	5,897.6	-109.5	62.1	107.5	0.01	-0.01	-0.39	
6,000.0	1.40	143.22	5,997.6	-111.4	63.7	109.4	0.16	-0.05	6.21	
6,100.0	1.49	144.16	6,097.6	-113.5	65.2	111.3	0.09	0.09	0.94	
6,200.0	1.35	152.48	6,197.5	-115.6	66.5	113.4	0.25	-0.14	8.32	
6,300.0	1.37	151.78	6,297.5	-117.7	67.6	115.5	0.03	0.02	-0.70	
6,400.0	1.49	151.12	6,397.5	-119.9	68.8	117.6	0.12	0.12	-0.66	
6,500.0	1.63	149.66	6,497.4	-122.2	70.1	119.9	0.15	0.14	-1.46	
6,600.0	1.60	147.76	6,597.4	-124.6	71.6	122.3	0.06	-0.03	-1.90	
6,700.0	1.84	149.31	6,697.3	-127.2	73.2	124.8	0.24	0.24	1.55	
6,800.0	1.93	150.65	6,797.3	-130.1	74.8	127.6	0.10	0.09	1.34	
6,900.0	1.97	152.51	6,897.2	-133.0	76.4	130.5	0.07	0.04	1.86	
7,000.0	1.81	153.43	6,997.2	-136.0	77.9	133.4	0.16	-0.16	0.92	
Last GYRO Survey										
7,097.0	1.90	157.80	7,094.1	-138.8	79.2	136.2	0.17	0.09	4.51	
First MWD Survey										
7,127.0	1.80	159.40	7,124.1	-139.7	79.6	137.1	0.38	-0.33	5.33	
7,158.0	1.90	170.90	7,155.1	-140.7	79.8	138.1	1.24	0.32	37.10	
7,190.0	1.80	164.20	7,187.1	-141.7	80.1	139.1	0.74	-0.31	-20.94	
7,222.0	2.00	166.50	7,219.1	-142.7	80.3	140.1	0.67	0.63	7.19	
7,255.0	2.00	172.10	7,252.0	-143.9	80.5	141.2	0.59	0.00	16.97	
7,287.0	7.00	176.10	7,283.9	-146.4	80.7	143.7	15.65	15.63	12.50	
7,318.0	11.30	177.40	7,314.5	-151.3	81.0	148.6	13.89	13.87	4.19	
7,349.0	15.20	178.10	7,344.7	-158.4	81.3	155.7	12.59	12.58	2.26	
7,382.0	18.70	176.00	7,376.3	-168.0	81.8	165.3	10.77	10.61	-6.36	
7,414.0	23.30	177.80	7,406.1	-179.4	82.4	176.7	14.51	14.38	5.63	
7,446.0	27.50	179.90	7,435.0	-193.2	82.7	190.4	13.42	13.13	6.56	
7,478.0	29.80	183.30	7,463.1	-208.5	82.2	205.8	8.81	7.19	10.63	
7,510.0	31.00	186.30	7,490.7	-224.6	80.8	221.9	6.05	3.75	9.38	
7,541.0	32.90	186.50	7,517.0	-240.9	79.0	238.3	6.14	6.13	0.65	
7,573.0	35.60	185.70	7,543.5	-258.8	77.1	256.2	8.55	8.44	-2.50	
7,604.0	39.00	183.90	7,568.1	-277.5	75.5	275.0	11.52	10.97	-5.81	
7,637.0	42.90	183.20	7,593.0	-299.1	74.2	296.6	11.90	11.82	-2.12	
7,669.0	47.00	182.70	7,615.7	-321.7	73.1	319.2	12.86	12.81	-1.56	

Wolverine Directional, LLC

Survey Report

Company:	RKI Exploration & Production	Local Co-ordinate Reference:	Well RDX-16-10H
Project:	Eddy County (NM83E)	TVD Reference:	WELL @ 0.0ft (Original Well Elev)
Site:	Sec 16-T26S-R30E	MD Reference:	WELL @ 0.0ft (Original Well Elev)
Well:	RDX 16-10H	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)	
7,700.0	51.20	182.20	7,636.0	-345.1	72.1	342.6	13.60	13.55	-1.61	
7,732.0	55.20	182.50	7,655.1	-370.7	71.0	368.2	12.52	12.50	0.94	
7,764.0	58.10	182.70	7,672.7	-397.4	69.8	395.0	9.08	9.06	0.63	
7,795.0	59.90	183.10	7,688.7	-423.9	68.4	421.5	5.91	5.81	1.29	
7,827.0	62.20	182.70	7,704.2	-451.9	67.0	449.5	7.27	7.19	-1.25	
7,859.0	64.30	182.80	7,718.6	-480.4	65.7	478.1	6.57	6.56	0.31	
7,891.0	66.30	182.60	7,732.0	-509.5	64.3	507.2	6.28	6.25	-0.63	
7,923.0	68.80	182.60	7,744.2	-539.0	62.9	536.7	7.81	7.81	0.00	
7,955.0	71.50	182.90	7,755.0	-569.1	61.5	566.8	8.48	8.44	0.94	
7,987.0	73.40	183.10	7,764.7	-599.5	59.9	597.3	5.97	5.94	0.63	
8,019.0	76.30	182.50	7,773.0	-630.4	58.4	628.2	9.24	9.06	-1.88	
8,051.0	80.20	183.10	7,779.6	-661.7	56.9	659.5	12.32	12.19	1.88	
8,075.0	82.70	182.60	7,783.1	-685.4	55.7	683.3	10.62	10.42	-2.08	
8,107.0	86.80	183.70	7,786.1	-717.2	53.9	715.1	13.26	12.81	3.44	
8,139.0	89.10	184.10	7,787.2	-749.1	51.8	747.1	7.30	7.19	1.25	
8,171.0	92.70	184.00	7,786.7	-781.0	49.5	779.0	11.25	11.25	-0.31	
8,203.0	93.40	184.10	7,785.0	-812.9	47.2	811.0	2.21	2.19	0.31	
8,234.0	93.40	183.80	7,783.2	-843.8	45.1	841.9	0.97	0.00	-0.97	
8,266.0	92.50	183.30	7,781.5	-875.7	43.1	873.8	3.22	-2.81	-1.56	
8,297.0	91.90	183.00	7,780.3	-906.6	41.4	904.8	2.16	-1.94	-0.97	
8,329.0	91.20	183.20	7,779.5	-938.5	39.7	936.8	2.27	-2.19	0.63	
8,361.0	90.10	182.90	7,779.1	-970.5	38.0	968.8	3.56	-3.44	-0.94	
8,393.0	90.40	182.20	7,779.0	-1,002.4	36.6	1,000.8	2.38	0.94	-2.19	
8,425.0	90.60	182.50	7,778.7	-1,034.4	35.3	1,032.8	1.13	0.63	0.94	
8,457.0	90.90	182.50	7,778.3	-1,066.4	33.9	1,064.8	0.94	0.94	0.00	
8,489.0	90.80	182.30	7,777.8	-1,098.3	32.5	1,096.7	0.70	-0.31	-0.63	
8,521.0	91.40	181.90	7,777.2	-1,130.3	31.4	1,128.7	2.25	1.88	-1.25	
8,553.0	91.80	182.60	7,776.3	-1,162.3	30.1	1,160.7	2.52	1.25	2.19	
8,584.0	92.10	183.30	7,775.2	-1,193.2	28.5	1,191.7	2.46	0.97	2.26	
8,616.0	92.20	183.00	7,774.0	-1,225.2	26.7	1,223.7	0.99	0.31	-0.94	
8,648.0	92.40	183.10	7,772.7	-1,257.1	25.0	1,255.6	0.70	0.63	0.31	
8,679.0	92.20	182.70	7,771.5	-1,288.0	23.5	1,286.6	1.44	-0.65	-1.29	
8,711.0	89.40	181.70	7,771.0	-1,320.0	22.2	1,318.6	9.29	-8.75	-3.13	
8,743.0	88.80	180.90	7,771.5	-1,352.0	21.5	1,350.6	3.12	-1.88	-2.50	
8,775.0	89.10	180.60	7,772.1	-1,384.0	21.1	1,382.6	1.33	0.94	-0.94	
8,808.0	90.50	182.00	7,772.2	-1,417.0	20.4	1,415.6	6.00	4.24	4.24	
8,840.0	91.20	181.90	7,771.8	-1,448.9	19.3	1,447.6	2.21	2.19	-0.31	
8,872.0	91.70	181.30	7,771.0	-1,480.9	18.4	1,479.6	2.44	1.56	-1.88	
8,903.0	92.00	180.80	7,770.0	-1,511.9	17.8	1,510.5	1.88	0.97	-1.61	
8,935.0	92.40	180.20	7,768.7	-1,543.9	17.5	1,542.5	2.25	1.25	-1.88	
8,967.0	92.80	179.40	7,767.3	-1,575.8	17.6	1,574.5	2.79	1.25	-2.50	
8,999.0	92.50	180.60	7,765.8	-1,607.8	17.6	1,606.4	3.86	-0.94	3.75	
9,031.0	92.60	181.10	7,764.4	-1,639.8	17.2	1,638.4	1.59	0.31	1.56	
9,063.0	92.50	183.30	7,763.0	-1,671.7	15.9	1,670.3	6.88	-0.31	6.88	
9,095.0	92.40	183.60	7,761.6	-1,703.6	14.0	1,702.3	0.99	-0.31	0.94	
9,127.0	92.40	183.70	7,760.2	-1,735.5	12.0	1,734.3	0.31	0.00	0.31	
9,159.0	93.10	183.30	7,758.7	-1,767.4	10.0	1,766.2	2.52	2.19	-1.25	
9,190.0	93.10	182.90	7,757.0	-1,798.3	8.4	1,797.2	1.29	0.00	-1.29	
9,223.0	92.10	182.90	7,755.5	-1,831.3	6.7	1,830.1	3.03	-3.03	0.00	
9,255.0	92.20	182.60	7,754.3	-1,863.2	5.2	1,862.1	0.99	0.31	-0.94	
9,287.0	92.10	182.30	7,753.1	-1,895.1	3.8	1,894.1	0.99	-0.31	-0.94	
9,318.0	90.90	182.50	7,752.3	-1,926.1	2.5	1,925.0	3.92	-3.87	0.65	
9,350.0	90.20	181.90	7,752.0	-1,958.1	1.3	1,957.0	2.88	-2.19	-1.88	
9,383.0	90.40	182.20	7,751.8	-1,991.1	0.1	1,990.0	1.09	0.61	0.91	

Wolverine Directional, LLC

Survey Report

Company:	RKI Exploration & Production	Local Co-ordinate Reference:	Well RDX-16-10H
Project:	Eddy County (NM83E)	TVD Reference:	WELL @ 0.0ft (Original Well Elev)
Site:	Sec 16-T26S-R30E	MD Reference:	WELL @ 0.0ft (Original Well Elev)
Well:	RDX 16-10H	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)	
9,415.0	91.70	181.50	7,751.3	-2,023.0	-1.0	2,022.0	4.61	4.06	-2.19	
9,447.0	91.90	181.40	7,750.3	-2,055.0	-1.8	2,054.0	0.70	0.63	-0.31	
9,478.0	92.50	183.30	7,749.1	-2,086.0	-3.0	2,085.0	6.42	1.94	6.13	
9,510.0	92.80	183.80	7,747.6	-2,117.9	-5.0	2,116.9	1.82	0.94	1.56	
9,543.0	92.70	185.40	7,746.0	-2,150.7	-7.7	2,149.9	4.85	-0.30	4.85	
9,575.0	92.80	185.60	7,744.5	-2,182.5	-10.7	2,181.8	0.70	0.31	0.63	
9,608.0	92.90	185.90	7,742.8	-2,215.3	-14.0	2,214.6	0.96	0.30	0.91	
9,640.0	92.50	185.20	7,741.3	-2,247.1	-17.1	2,246.5	2.52	-1.25	-2.19	
9,671.0	93.10	185.00	7,739.8	-2,278.0	-19.9	2,277.5	2.04	1.94	-0.65	
9,703.0	93.40	185.00	7,738.0	-2,309.8	-22.7	2,309.4	0.94	0.94	0.00	
9,735.0	93.90	184.90	7,736.0	-2,341.6	-25.4	2,341.2	1.59	1.56	-0.31	
9,767.0	94.50	185.00	7,733.6	-2,373.4	-28.2	2,373.1	1.90	1.88	0.31	
9,799.0	93.10	183.90	7,731.5	-2,405.3	-30.6	2,405.0	5.56	-4.38	-3.44	
9,832.0	92.80	183.70	7,729.8	-2,438.1	-32.8	2,437.9	1.09	-0.91	-0.61	
9,864.0	92.90	183.80	7,728.2	-2,470.0	-34.9	2,469.9	0.44	0.31	0.31	
9,895.0	93.10	183.70	7,726.6	-2,500.9	-36.9	2,500.8	0.72	0.65	-0.32	
9,927.0	93.10	183.80	7,724.8	-2,532.8	-39.0	2,532.8	0.31	0.00	0.31	
9,960.0	94.30	184.10	7,722.7	-2,565.7	-41.3	2,565.7	3.75	3.64	0.91	
9,991.0	94.90	184.10	7,720.2	-2,596.5	-43.5	2,596.5	1.94	1.94	0.00	
10,022.0	93.50	185.50	7,718.0	-2,627.3	-46.1	2,627.4	6.38	-4.52	4.52	
10,053.0	92.90	186.60	7,716.2	-2,658.1	-49.4	2,658.3	4.04	-1.94	3.55	
10,085.0	92.80	186.10	7,714.6	-2,689.8	-52.9	2,690.1	1.59	-0.31	-1.56	
10,117.0	92.70	185.20	7,713.1	-2,721.6	-56.0	2,722.0	2.83	-0.31	-2.81	
10,149.0	92.70	185.30	7,711.6	-2,753.5	-59.0	2,753.9	0.31	0.00	0.31	
10,181.0	91.50	183.70	7,710.4	-2,785.3	-61.5	2,785.9	6.25	-3.75	-5.00	
10,214.0	91.80	183.30	7,709.5	-2,818.3	-63.5	2,818.9	1.51	0.91	-1.21	
10,246.0	91.30	183.20	7,708.6	-2,850.2	-65.3	2,850.8	1.59	-1.56	-0.31	
10,278.0	91.60	184.10	7,707.8	-2,882.1	-67.3	2,882.8	2.96	0.94	2.81	
10,309.0	91.20	184.20	7,707.0	-2,913.0	-69.6	2,913.8	1.33	-1.29	0.32	
10,341.0	91.10	184.10	7,706.4	-2,945.0	-71.9	2,945.7	0.44	-0.31	-0.31	
10,373.0	91.50	182.80	7,705.7	-2,976.9	-73.8	2,977.7	4.25	1.25	-4.06	
10,405.0	91.00	181.20	7,705.0	-3,008.9	-74.9	3,009.7	5.24	-1.56	-5.00	
10,437.0	90.30	180.60	7,704.6	-3,040.9	-75.4	3,041.7	2.88	-2.19	-1.88	
10,469.0	90.00	180.10	7,704.5	-3,072.9	-75.6	3,073.7	1.82	-0.94	-1.56	
10,500.0	90.30	180.00	7,704.4	-3,103.9	-75.7	3,104.7	1.02	0.97	-0.32	
10,532.0	89.50	179.00	7,704.5	-3,135.8	-75.4	3,136.7	4.00	-2.50	-3.13	
10,564.0	88.80	177.90	7,705.0	-3,167.8	-74.5	3,168.6	4.07	-2.19	-3.44	
10,595.0	90.70	178.30	7,705.1	-3,198.8	-73.5	3,199.5	6.26	6.13	1.29	
10,628.0	92.00	179.70	7,704.3	-3,231.8	-72.9	3,232.5	5.79	3.94	4.24	
10,660.0	91.20	180.40	7,703.4	-3,263.8	-72.9	3,264.4	3.32	-2.50	2.19	
10,691.0	91.10	180.40	7,702.8	-3,294.8	-73.2	3,295.4	0.32	-0.32	0.00	
10,723.0	91.20	180.70	7,702.2	-3,326.8	-73.5	3,327.4	0.99	0.31	0.94	
10,754.0	90.70	180.30	7,701.7	-3,357.8	-73.7	3,358.4	2.07	-1.61	-1.29	
10,786.0	90.90	180.10	7,701.2	-3,389.8	-73.8	3,390.4	0.88	0.63	-0.63	
10,818.0	91.00	180.20	7,700.7	-3,421.8	-73.9	3,422.4	0.44	0.31	0.31	
10,850.0	92.00	181.10	7,699.8	-3,453.7	-74.3	3,454.4	4.20	3.13	2.81	
10,881.0	92.50	181.10	7,698.6	-3,484.7	-74.9	3,485.3	1.61	1.61	0.00	
10,913.0	92.40	181.00	7,697.3	-3,516.7	-75.5	3,517.3	0.44	-0.31	-0.31	
10,946.0	93.00	181.40	7,695.7	-3,549.6	-76.2	3,550.3	2.18	1.82	1.21	
10,978.0	92.90	182.20	7,694.1	-3,581.6	-77.2	3,582.2	2.52	-0.31	2.50	
11,010.0	93.00	182.60	7,692.4	-3,613.5	-78.5	3,614.2	1.29	0.31	1.25	
11,043.0	92.70	182.60	7,690.8	-3,646.4	-80.0	3,647.1	0.91	-0.91	0.00	
11,075.0	92.90	182.60	7,689.2	-3,678.4	-81.4	3,679.1	0.63	0.63	0.00	
11,107.0	92.00	183.40	7,687.8	-3,710.3	-83.1	3,711.0	3.76	-2.81	2.50	

Wolverine Directional, LLC

Survey Report

Company:	RKI Exploration & Production	Local Co-ordinate Reference:	Well RDX 16-10H
Project:	Eddy County (NM83E)	TVD Reference:	WELL @ 0.0ft (Original Well Elev)
Site:	Sec 16-T26S-R30E	MD Reference:	WELL @ 0.0ft (Original Well Elev)
Well:	RDX 16-10H	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)
11,139.0	92.30	183.20	7,686.6	-3,742.2	-85.0	3,743.0	1.13	0.94	-0.63
11,171.0	91.80	184.00	7,685.5	-3,774.1	-87.0	3,775.0	2.95	-1.56	2.50
11,202.0	90.90	185.10	7,684.8	-3,805.0	-89.4	3,805.9	4.58	-2.90	3.55
11,235.0	90.90	185.20	7,684.2	-3,837.9	-92.4	3,838.9	0.30	0.00	0.30
11,267.0	91.10	185.40	7,683.7	-3,869.7	-95.3	3,870.8	0.88	0.63	0.63
11,298.0	91.50	185.40	7,683.0	-3,900.6	-98.3	3,901.7	1.29	1.29	0.00
11,330.0	91.50	185.40	7,682.1	-3,932.4	-101.3	3,933.7	0.00	0.00	0.00
11,363.0	91.80	185.40	7,681.2	-3,965.3	-104.4	3,966.6	0.91	0.91	0.00
11,395.0	92.10	185.30	7,680.1	-3,997.1	-107.4	3,998.5	0.99	0.94	-0.31
11,427.0	92.40	185.20	7,678.9	-4,029.0	-110.3	4,030.4	0.99	0.94	-0.31
11,458.0	92.70	185.00	7,677.5	-4,059.8	-113.0	4,061.4	1.16	0.97	-0.65
11,490.0	92.90	184.90	7,675.9	-4,091.7	-115.8	4,093.3	0.70	0.63	-0.31
11,521.0	93.10	184.70	7,674.3	-4,122.5	-118.4	4,124.2	0.91	0.65	-0.65
11,554.0	91.80	184.10	7,672.9	-4,155.4	-120.9	4,157.1	4.34	-3.94	-1.82
11,586.0	91.20	184.00	7,672.0	-4,187.3	-123.2	4,189.1	1.90	-1.88	-0.31
11,618.0	91.50	184.00	7,671.3	-4,219.2	-125.4	4,221.0	0.94	0.94	0.00
11,650.0	91.60	183.90	7,670.4	-4,251.1	-127.6	4,253.0	0.44	0.31	-0.31
11,680.0	91.60	184.00	7,669.6	-4,281.0	-129.7	4,283.0	0.33	0.00	0.33
11,713.0	91.80	184.20	7,668.6	-4,313.9	-132.0	4,315.9	0.86	0.61	0.61
11,745.0	91.90	184.40	7,667.6	-4,345.8	-134.4	4,347.9	0.70	0.31	0.63
11,777.0	91.80	184.50	7,666.5	-4,377.7	-136.9	4,379.8	0.44	-0.31	0.31
11,810.0	90.70	184.20	7,665.8	-4,410.6	-139.4	4,412.8	3.46	-3.33	-0.91
11,842.0	91.00	184.00	7,665.3	-4,442.5	-141.7	4,444.8	1.13	0.94	-0.63
11,871.0	91.20	184.10	7,664.8	-4,471.4	-143.8	4,473.8	0.77	0.69	0.34
11,904.0	91.80	184.00	7,663.9	-4,504.3	-146.1	4,506.7	1.84	1.82	-0.30
11,936.0	91.90	184.20	7,662.9	-4,536.2	-148.4	4,538.7	0.70	0.31	0.63
11,968.0	92.20	184.20	7,661.7	-4,568.1	-150.7	4,570.6	0.94	0.94	0.00
Last MWD Survey									
12,022.0	92.20	184.20	7,659.7	-4,622.0	-154.7	4,624.5	0.00	0.00	0.00
Proj to TD - RDX 16-10H PBHL									

Survey Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
100.0	100.0	0.0	-0.4	First GYRO Survey
7,000.0	6,997.2	-136.0	77.9	Last GYRO Survey
7,097.0	7,094.1	-138.8	79.2	First MWD Survey
11,968.0	7,661.7	-4,568.1	-150.7	Last MWD Survey
12,022.0	7,659.7	-4,622.0	-154.7	Proj to TD

Checked By: _____	Approved By: _____	Date: _____
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