

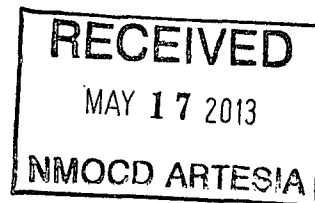


PO Box 1370
Artesia, NM 88211-1370
(575) 748-1288

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OCT 17 2012

30-015-40560



October 4, 2012

RKI Exploration
210 Park Ave.
Suite 900
Oklahoma City, OK 73102

RE: RDX Federal 21-12
430' FNL & 1330' FWL
Sec. 21, T26S, R30E
Eddy County, New Mexico

Dear Sir,

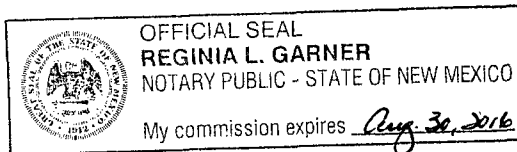
The attached is the Deviation Survey for the above captioned well.

Very truly yours,

Eddie C. LaRue
Operations Manager

State of New Mexico }
County of Eddy }

The foregoing was acknowledged before me this 4th day of October, 2012.

Regina L. Garner
Notary Public

Pason DataHub Deviation Survey 2012/10/11 13:21:18

Well Dossier 4902096 - RDX 21-12

# Date	Depth	Deviation	Direction
9/19/2012	383	0.70	0.00
9/21/2012	977	1.80	82.20
9/22/2012	1038	2.50	83.40
9/22/2012	1099	3.30	86.50
9/22/2012	1191	5.20	96.50
9/22/2012	1396	6.80	96.80
9/22/2012	1439	6.90	92.50
9/22/2012	1533	6.70	96.60
9/22/2012	1626	6.70	99.70
9/22/2012	1720	7.70	102.00
9/22/2012	1813	7.80	102.30
9/22/2012	1907	6.60	101.70
9/23/2012	2000	6.60	100.60
9/23/2012	2094	6.60	99.80
9/23/2012	2187	6.90	96.60
9/23/2012	2280	6.90	96.70
9/23/2012	2374	6.90	94.30
9/23/2012	2468	6.90	95.80
9/24/2012	2561	6.40	95.50
9/24/2012	2655	6.10	94.70
9/24/2012	2755	5.90	92.80
9/24/2012	2848	6.90	93.20
9/24/2012	2942	6.80	92.60
9/24/2012	3035	7.10	99.60
9/25/2012	3129	8.20	101.40
9/25/2012	3222	8.20	104.60
9/25/2012	3316	7.60	106.70
9/25/2012	3377	7.10	104.90
9/27/2012	3489	6.40	105.00
9/27/2012	3580	6.45	92.70
9/27/2012	3667	6.60	97.50
9/27/2012	3761	6.50	96.70
9/27/2012	3854	6.60	95.90
9/27/2012	3947	6.50	96.20
9/27/2012	4041	6.10	99.10
9/27/2012	4134	7.60	98.90
9/27/2012	4228	7.80	98.70
9/27/2012	4321	6.20	101.40
9/27/2012	4414	5.80	101.50
9/27/2012	4508	6.70	94.40
9/27/2012	4601	6.80	94.30
9/27/2012	4695	6.80	93.90

#	Date	Depth	Deviation	Direction
	9/28/2012	4789	6.80	93.00
	9/28/2012	4882	5.70	93.50
	9/28/2012	4975	4.40	92.80
	9/28/2012	5069	4.10	96.00
	9/28/2012	5162	2.90	103.00
	9/28/2012	5255	1.10	143.00
	9/28/2012	5348	1.30	145.30
	9/28/2012	5441	1.30	136.70
	9/28/2012	5534	0.10	224.70
	9/28/2012	5628	0.30	58.60
	9/28/2012	5721	0.30	97.20
	9/28/2012	5814	0.30	105.10
	9/28/2012	5908	0.40	161.30
	9/28/2012	6001	0.50	167.20
	9/28/2012	6094	0.50	183.60
	9/29/2012	6188	0.50	177.60
	9/29/2012	6281	0.20	160.70
	9/29/2012	6375	0.70	164.80
	9/29/2012	6469	0.90	165.30
	9/29/2012	6562	0.80	23.40
	9/29/2012	6655	0.90	43.60
	9/29/2012	6748	0.90	62.40
	9/29/2012	6842	0.90	107.60
	9/29/2012	6935	1.20	119.90
	9/30/2012	6999	1.50	137.40
	9/30/2012	7093	0.80	186.00
	9/30/2012	7187	1.40	273.10
	9/30/2012	7280	1.20	290.80
	9/30/2012	7360	1.10	287.80
	# EOF			

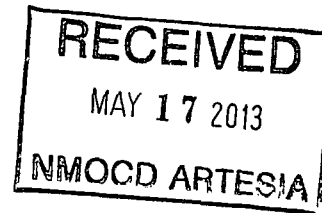
RKI Exploration & Production

Eddy County (NM83E)

Sec 21-T26S-R30E

RDX 21-12

Wellbore #1



Survey: MWD Surveys

Standard Survey Report

01 October, 2012

Wolverine Directional, LLC

Survey Report

Company:	RKI Exploration & Production	Local Co-ordinate Reference:	Well: RDX 21-12
Project:	Eddy County (NM83E)	TVD Reference:	WELL @ 0.0ft (Original Well Elev)
Site:	Sec 21-T26S-R30E	MD Reference:	WELL @ 0.0ft (Original Well Elev)
Well:	RDX 21-12	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	97.51	

Survey Program	Date: 2012/10/01			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
100.0	7,410.0	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	0.26	111.04	100.0	-0.1	0.2	0.2	0.26	0.26	0.00
First GYRO Survey									
200.0	0.07	135.51	200.0	-0.2	0.5	0.5	0.20	-0.19	24.47
300.0	0.25	158.92	300.0	-0.5	0.6	0.6	0.19	0.18	23.41
400.0	0.57	149.37	400.0	-1.1	0.9	1.1	0.33	0.32	-9.55
500.0	1.31	109.89	500.0	-1.9	2.2	2.5	0.94	0.74	-39.48
600.0	1.45	74.91	600.0	-2.0	4.5	4.8	0.84	0.14	-34.98
700.0	1.52	94.22	699.9	-1.7	7.1	7.3	0.50	0.07	19.31
800.0	1.54	90.76	799.9	-1.8	9.8	9.9	0.09	0.02	-3.46
860.0	1.74	91.79	859.9	-1.9	11.5	11.6	0.34	0.33	1.72
Last GYRO Survey									
977.0	1.80	82.20	976.8	-1.7	15.1	15.2	0.26	0.05	-8.20
First MWD Survey									
1,008.0	1.90	83.20	1,007.8	-1.6	16.1	16.1	0.34	0.32	3.23
1,038.0	2.50	83.40	1,037.8	-1.4	17.2	17.2	2.00	2.00	0.67
1,068.0	3.00	90.80	1,067.7	-1.4	18.6	18.7	2.04	1.67	24.67
1,099.0	3.30	86.50	1,098.7	-1.3	20.3	20.3	1.23	0.97	-13.87
1,130.0	3.90	89.20	1,129.6	-1.3	22.3	22.3	2.01	1.94	8.71
1,161.0	4.60	93.00	1,160.5	-1.3	24.6	24.5	2.43	2.26	12.26
1,191.0	5.20	95.50	1,190.4	-1.5	27.1	27.1	2.12	2.00	8.33
1,222.0	5.90	96.40	1,221.3	-1.8	30.1	30.1	2.28	2.26	2.90
1,283.0	6.60	96.50	1,281.9	-2.6	36.7	36.7	1.15	1.15	0.16
1,346.0	6.80	96.80	1,344.5	-3.4	44.0	44.1	0.32	0.32	0.48
1,439.0	6.90	92.50	1,436.8	-4.3	55.1	55.2	0.56	0.11	-4.62
1,532.0	6.70	96.60	1,529.2	-5.2	66.0	66.1	0.56	-0.22	4.41
1,626.0	6.70	99.70	1,622.5	-6.7	76.9	77.1	0.38	0.00	3.30
1,720.0	7.70	102.00	1,715.8	-9.0	88.5	88.9	1.11	1.06	2.45
1,813.0	7.80	102.30	1,807.9	-11.6	100.7	101.4	0.12	0.11	0.32
1,907.0	6.60	101.70	1,901.2	-14.1	112.2	113.1	1.28	-1.28	-0.64
2,000.0	6.60	100.60	1,993.6	-16.1	122.7	123.8	0.14	0.00	-1.18
2,094.0	6.60	99.80	2,087.0	-18.0	133.4	134.6	0.10	0.00	-0.85
2,187.0	6.90	96.60	2,179.3	-19.6	144.2	145.5	0.52	0.32	-3.44
2,280.0	6.90	96.70	2,271.6	-20.9	155.3	156.7	0.01	0.00	0.11
2,374.0	6.90	94.30	2,365.0	-22.0	166.5	167.9	0.31	0.00	-2.55
2,468.0	6.90	95.80	2,458.3	-23.0	177.8	179.2	0.19	0.00	1.60
2,561.0	6.40	95.50	2,550.7	-24.0	188.5	190.0	0.54	-0.54	-0.32
2,655.0	6.10	94.70	2,644.1	-24.9	198.7	200.2	0.33	-0.32	-0.85

Wolverine Directional, LLC

Survey Report

Company:	RKI Exploration & Production	Local Co-ordinate Reference:	Well RDX 21-12
Project:	Eddy County (NM83E)	TVD Reference:	WELL @ 0.0ft (Original Well Elev)
Site:	Sec 21-T26S-R30E	MD Reference:	WELL @ 0.0ft (Original Well Elev)
Well:	RDX 21-12	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)	
2,755.0	5.90	92.80	2,743.5	-25.6	209.1	210.6	0.28	-0.20	-1.90	
2,848.0	6.90	93.20	2,836.0	-26.2	219.4	221.0	1.08	1.08	0.43	
2,942.0	6.80	92.60	2,929.3	-26.7	230.6	232.2	0.13	-0.11	-0.64	
3,035.0	7.10	99.60	3,021.6	-27.9	241.8	243.4	0.97	0.32	7.53	
3,129.0	8.20	101.40	3,114.8	-30.2	254.1	255.9	1.20	1.17	1.91	
3,222.0	8.20	104.60	3,206.8	-33.2	267.0	269.1	0.49	0.00	3.44	
3,315.0	7.60	106.70	3,298.9	-36.6	279.3	281.7	0.72	-0.65	2.26	
3,377.0	7.10	104.90	3,360.4	-38.8	287.0	289.6	0.89	-0.81	-2.90	
3,487.0	6.40	105.00	3,469.7	-42.1	299.5	302.4	0.64	-0.64	0.09	
3,580.0	6.50	92.70	3,562.1	-43.7	309.7	312.8	1.49	0.11	-13.23	
3,667.0	6.60	98.10	3,648.5	-44.7	319.6	322.7	0.72	0.11	6.21	
3,761.0	6.50	96.70	3,741.9	-46.1	330.2	333.4	0.20	-0.11	-1.49	
3,854.0	6.60	95.90	3,834.3	-47.2	340.8	344.0	0.15	0.11	-0.86	
3,947.0	6.50	96.20	3,926.7	-48.3	351.3	354.6	0.11	-0.11	0.32	
4,040.0	6.10	99.10	4,019.1	-49.7	361.4	364.8	0.55	-0.43	3.12	
4,134.0	7.60	98.90	4,112.5	-51.4	372.5	376.0	1.60	1.60	-0.21	
4,228.0	7.80	98.70	4,205.6	-53.4	385.0	388.6	0.21	0.21	-0.21	
4,321.0	6.20	101.40	4,297.9	-55.3	396.1	399.9	1.76	-1.72	2.90	
4,414.0	5.80	101.50	4,390.4	-57.2	405.6	409.6	0.43	-0.43	0.11	
4,508.0	6.70	94.40	4,483.8	-58.6	415.8	419.9	1.26	0.96	-7.55	
4,601.0	6.80	94.30	4,576.2	-59.4	426.7	430.8	0.11	0.11	-0.11	
4,695.0	6.80	93.90	4,669.5	-60.2	437.8	441.9	0.05	0.00	-0.43	
4,788.0	6.80	93.00	4,761.9	-60.9	448.8	452.9	0.11	0.00	-0.97	
4,881.0	5.70	96.50	4,854.3	-61.7	458.8	463.0	1.25	-1.18	3.76	
4,975.0	4.40	92.80	4,948.0	-62.4	467.1	471.2	1.43	-1.38	-3.94	
5,068.0	4.10	96.00	5,040.7	-62.9	474.0	478.1	0.41	-0.32	3.44	
5,162.0	2.90	103.00	5,134.5	-63.8	479.6	483.8	1.35	-1.28	7.45	
5,255.0	1.10	143.00	5,227.5	-65.1	482.4	486.8	2.34	-1.94	43.01	
5,330.5	1.26	144.92	5,303.0	-66.3	483.4	487.9	0.22	0.21	2.55	
RDX 21-12 TGT #1										
5,348.0	1.30	145.30	5,320.5	-66.6	483.6	488.1	0.22	0.22	2.15	
5,441.0	1.30	136.70	5,413.4	-68.3	484.9	489.7	0.21	0.00	-9.25	
5,534.0	0.10	224.70	5,506.4	-69.1	485.6	490.4	1.40	-1.29	94.62	
5,628.0	0.30	58.60	5,600.4	-69.0	485.7	490.6	0.42	0.21	-176.70	
5,721.0	0.30	97.20	5,693.4	-68.9	486.2	491.0	0.21	0.00	41.51	
5,814.0	0.30	105.10	5,786.4	-69.0	486.6	491.5	0.04	0.00	8.49	
5,908.0	0.40	161.30	5,880.4	-69.4	487.0	491.9	0.36	0.11	59.79	
6,001.0	0.50	167.20	5,973.4	-70.1	487.2	492.2	0.12	0.11	6.34	
6,094.0	0.50	183.60	6,066.4	-70.9	487.2	492.3	0.15	0.00	17.63	
6,188.0	0.50	177.60	6,160.4	-71.7	487.2	492.4	0.06	0.00	-6.38	
6,281.0	0.20	160.70	6,253.4	-72.3	487.3	492.6	0.34	-0.32	-18.17	
6,375.0	0.70	164.80	6,347.4	-73.0	487.5	492.9	0.53	0.53	4.36	
6,468.0	0.90	164.00	6,440.4	-74.2	487.9	493.4	0.22	0.22	-0.86	
6,562.0	0.80	23.40	6,534.4	-74.4	488.3	493.9	1.70	-0.11	-149.57	
6,655.0	0.90	43.60	6,627.4	-73.2	489.1	494.5	0.34	0.11	21.72	
6,748.0	0.90	72.50	6,720.4	-72.5	490.3	495.6	0.48	0.00	31.08	
6,841.0	0.90	107.60	6,813.4	-72.5	491.7	496.9	0.58	0.00	37.74	
6,935.0	1.20	119.90	6,907.3	-73.2	493.2	498.6	0.40	0.32	13.09	
6,999.0	1.50	137.40	6,971.3	-74.1	494.4	499.8	0.79	0.47	27.34	
7,093.0	0.80	186.00	7,065.3	-75.7	495.2	500.8	1.21	-0.74	51.70	
7,186.0	1.40	273.70	7,158.3	-76.3	494.0	499.7	1.70	0.65	94.30	
7,280.0	1.20	290.80	7,252.3	-75.9	491.9	497.6	0.46	-0.21	18.19	
7,360.0	1.10	287.80	7,332.3	-75.3	490.4	496.0	0.15	-0.13	-3.75	
Last MWD Survey										

Wolverine Directional, LLC

Survey Report

Company:	RKI Exploration & Production	Local Co-ordinate Reference:	Well RDX 21-12
Project:	Eddy County (NM83E)	TVD Reference:	WELL @ 0.0ft (Original Well Elev)
Site:	Sec 21-T26S-R30E	MD Reference:	WELL @ 0.0ft (Original Well Elev)
Well:	RDX 21-12	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)	
7,386.9	1.10	287.80	7,359.1	-75.2	489.9	495.5	0.00	0.00	0.00	
RDX 21-12 PHBL										
7,410.0	1.10	287.80	7,382.2	-75.0	489.5	495.1	0.00	0.00	0.00	
Proj to TD										

Survey Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
100.0	100.0	-0.1	0.2	First GYRO Survey	
860.0	859.9	-1.9	11.5	Last GYRO Survey	
977.0	976.8	-1.7	15.1	First MWD Survey	
7,360.0	7,332.3	-75.3	490.4	Last MWD Survey	
7,410.0	7,382.2	-75.0	489.5	Proj to TD	

Checked By: _____	Approved By: _____	Date: _____
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