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Survey Company: MS Energy Services
MWD Surveyor Name: Carlos Coscio
Survey Type: MWD
Operating Company: RKI Exploration & Production, LLC
Well Name & Number: RDX Federal COM 17-41H
API Number: 30-015-42743
Surveyed Depths: 156' – 10,917' MD Original Wellbore
10,554' – 15,745' MD Sidetrack

NM OIL CONSERVATION
ARTESIA DISTRICT

JAN 18 2017

RECEIVED

Dates Performed: 12/06/2016 – 01/04/2017

Location: Eddy County, NM

I certify that the data is true, correct and complete and within the limitations of the tool set forth by MS Energy Services; that I am authorized and qualified to make this report and that I have reviewed this report and find it conforms to the principles and procedures as set forth by MS Energy Services.

Digitally signed by: _____

Title: MWD Field Specialist

Date: 2017-01-09

Email: ccoscio@msenergyservices.com



SURVEY CALCULATION PROGRAM

1/9/17 10:53

Company:	RKI Exploration & Production, LLC
Well Name:	RDX Federal COM 17-41H - ST
Location:	Eddy County, NM
Rig:	H&P #509
Job Number:	DDMO-160584
API #:	30-015-42743

Magnetic Declination: 6.98

REFERENCED TO GRID NORTH

Proposed Direction: 3.39

Minimum Curvature

#	Depth Feet	Inc		Azm Degrees	TVD Feet	N/S		E/W Feet	Surface Vert Sec	Distance		Closure Azm	DLS/ 100	BUR/ 100'
		MD	INC			AZM	Feet							
PTB:	15,796		93			0.1	10992.93		4953.45		304.35			4962.78
TIE IN	10,503	20.20	3.80	10474.37	-134.47	-116.17	267.10	-118.44		299.04	116.72			
1	10,554	22.40	11.80	10521.89	-116.17	-99.59	269.67	-100.02		293.63	113.30		7.14	4.31
2	10,595	26.50	12.80	10559.21	-99.59	-84.79	273.30	-83.26		290.88	110.02		10.05	10.00
3	10,627	29.90	10.80	10587.41	-84.79	-49.92	276.37	-68.30		289.09	107.06		11.03	10.63
4	10,690	38.20	5.90	10639.57	-49.92	-19.09	281.33	-33.20		285.72	100.06		13.87	13.17
5	10,737	44.20	3.80	10674.92	-19.09	14.76	283.91	-2.27		284.55	93.85		13.10	12.77
6	10,784	48.30	4.50	10707.41	14.76	50.41	286.37	31.67		286.75	87.05		8.79	8.72
7	10,831	51.30	8.50	10737.75	50.41	88.24	290.46	67.50		294.81	80.15		9.11	6.38
8	10,879	55.00	11.10	10766.54	88.24	126.48	297.02	105.65		309.85	73.45		8.84	7.71
9	10,926	57.20	11.80	10792.75	126.48	165.52	304.77	144.28		329.97	67.46		4.84	4.68
10	10,973	58.50	10.50	10817.76	165.52	205.34	312.46	183.70		353.59	62.09		3.62	2.77
11	11,020	60.10	9.00	10841.76	205.34	247.47	319.30	223.86		379.63	57.25		4.37	3.40
12	11,068	64.60	6.20	10864.03	247.47	333.46	324.90	266.25		408.41	52.70		10.70	9.37
13	11,162	68.60	2.40	10901.37	333.46	422.63	331.32	352.47		470.08	44.82		5.64	4.26
14	11,257	71.20	357.30	10934.03	422.63	513.89	331.05	441.47		536.86	38.07		5.74	2.74
15	11,352	77.50	355.60	10959.65	513.89	542.37	325.37	532.23		608.23	32.34		6.85	6.63
16	11,381	83.00	355.40	10964.56	542.37	618.93	323.13	560.53		631.33	30.79		18.98	18.97
17	11,458	87.60	357.30	10970.86	618.93	708.83	318.25	636.66		695.96	27.21		6.46	5.97
18	11,548	89.40	358.30	10973.22	708.83	798.78	314.80	726.20		775.59	23.95		2.29	2.00
19	11,638	90.50	358.10	10973.30	798.78	887.72	311.97	815.83		857.54	21.33		1.24	1.22
20	11,727	91.40	358.10	10971.82	887.72	977.64	309.02	904.44		939.97	19.19		1.01	1.01
21	11,817	91.00	357.80	10969.94	977.64	1067.53	305.80	994.01		1024.35	17.37		0.56	-0.44
22	11,907	90.80	356.90	10968.52	1067.53	1157.46	301.64	1083.50		1109.33	15.78		1.02	-0.22
23	11,997	91.00	359.00	10967.11	1157.46	1247.44	298.42	1173.08		1195.31	14.46		2.34	0.22
24	12,087	88.70	358.80	10967.35	1247.44	1337.39	296.69	1262.80		1282.23	13.38		2.57	-2.56
25	12,177	88.20	359.00	10969.78	1337.39	1427.36	294.97	1352.49		1369.53	12.44		0.60	-0.56
26	12,267	89.20	0.10	10971.82	1427.36	1517.35	294.26	1442.26		1457.37	11.65		1.65	1.11
27	12,357	89.10	0.40	10973.16	1517.35	1607.28	294.65	1532.12		1545.69	10.99		0.35	-0.11
28	12,447	86.80	359.70	10976.38	1607.28	1697.14	294.73	1621.90		1634.08	10.39		2.67	-2.56
29	12,537	86.70	0.10	10981.48	1697.14	1787.08	294.57	1711.59		1722.51	9.85		0.46	-0.11
30	12,627	89.60	359.50	10984.38	1787.08	1877.05	294.26	1801.35		1811.14	9.35		3.29	3.22
31	12,717	89.00	358.10	10985.48	1877.05	1967.02	292.38	1891.06		1899.69	8.85		1.69	-0.67
32	12,807	89.20	359.50	10986.90	1967.02	2057.01	290.49	1980.75		1988.35	8.40		1.57	0.22
33	12,897	89.10	359.60	10988.23	2057.01		289.78	2070.54		2077.32	8.02		0.16	-0.11

SURVEY CALCULATION PROGRAM

1/9/17 10:53

Company: RKI Exploration & Production, LLC
 Well Name: RDX Federal COM 17-41H - ST
 Location: Eddy County, NM
 Rig: H&P #509
 Job Number: DDMO-160584
 API #: 30-015-42743

Magnetic Declination: 6.98

REFERENCED TO GRID NORTH

Proposed Direction: 3.39

Minimum Curvature

Survey Calculation Method:

INC 93

AZM 0.1

TVD 10992.93

Surface Vert Sec 4953.45

E/W Closure 304.35

VS 4962.78

#	Depth Feet	Inc Degrees	Azm Degrees	TVD Feet	N/S Feet	E/W Feet	Surface Vert Sec	Distance	Azm Closure	DLS/ 100	BUR/ 100'
34	12,987	88.70	358.60	10989.96	2146.98	288.37	2160.27	2166.26	7.65	1.20	-0.44
35	13,077	89.40	0.90	10991.45	2236.96	287.98	2250.07	2255.42	7.34	2.67	0.78
36	13,166	89.90	1.40	10992.00	2325.94	289.76	2339.00	2343.92	7.10	0.79	0.56
37	13,256	90.20	1.30	10991.92	2415.91	291.88	2428.94	2433.48	6.89	0.35	0.33
38	13,346	91.90	2.10	10990.27	2505.85	294.55	2518.89	2523.11	6.70	2.09	1.89
39	13,436	91.60	2.20	10987.52	2595.75	297.93	2608.82	2612.79	6.55	0.35	-0.33
40	13,525	89.40	2.50	10986.74	2684.66	301.58	2697.80	2701.55	6.41	2.49	-2.47
41	13,615	88.90	2.30	10988.08	2774.57	305.35	2787.78	2791.33	6.28	0.60	-0.56
42	13,705	90.20	3.80	10988.79	2864.44	310.13	2877.77	2881.18	6.18	2.21	1.44
43	13,794	90.00	3.30	10988.63	2953.27	315.65	2966.77	2970.09	6.10	0.61	-0.22
44	13,884	88.00	2.80	10990.20	3043.12	320.43	3056.75	3059.95	6.01	2.29	-2.22
45	13,974	87.20	1.80	10993.97	3132.97	324.04	3146.65	3149.68	5.91	1.42	-0.89
46	14,063	88.70	0.80	10997.15	3221.89	326.06	3235.53	3238.34	5.78	2.03	1.69
47	14,153	88.40	1.10	10999.43	3311.84	327.55	3325.42	3328.00	5.65	0.47	-0.33
48	14,243	90.20	359.60	11000.53	3401.83	328.10	3415.28	3417.62	5.51	2.60	2.00
49	14,333	91.20	359.70	10999.43	3491.82	327.55	3505.08	3507.15	5.36	1.12	1.11
50	14,422	94.00	0.90	10995.39	3580.72	328.02	3593.85	3595.71	5.23	3.42	3.15
51	14,512	91.00	359.30	10991.47	3670.62	328.17	3683.60	3685.26	5.11	3.78	-3.33
52	14,601	87.50	358.00	10992.63	3759.57	326.07	3772.27	3773.68	4.96	4.19	-3.93
53	14,691	88.30	359.10	10995.93	3849.48	323.80	3861.89	3863.07	4.81	1.51	0.89
54	14,781	87.70	359.40	10999.07	3939.42	322.62	3951.60	3952.60	4.68	0.75	-0.67
55	14,871	87.30	359.80	11003.00	4029.33	321.99	4041.32	4042.17	4.57	0.63	-0.44
56	14,961	89.90	1.10	11005.20	4119.29	322.70	4131.16	4131.91	4.48	3.23	2.89
57	15,051	87.40	0.40	11007.32	4209.25	323.88	4221.03	4221.69	4.40	2.88	-2.78
58	15,140	89.60	359.60	11009.65	4298.21	323.88	4309.84	4310.40	4.31	2.63	2.47
59	15,230	89.10	359.10	11010.67	4388.20	322.86	4399.61	4400.06	4.21	0.79	-0.56
60	15,320	90.50	357.20	11010.98	4478.14	319.95	4489.23	4489.56	4.09	2.62	1.56
61	15,410	92.50	357.60	11008.63	4568.02	315.87	4578.70	4578.92	3.96	2.27	2.22
62	15,500	92.10	357.30	11005.01	4657.85	311.87	4668.15	4668.28	3.83	0.56	-0.44
63	15,590	91.70	357.40	11002.03	4747.71	307.71	4757.60	4757.67	3.71	0.46	-0.44
64	15,679	92.50	358.90	10998.77	4836.60	304.84	4846.16	4846.20	3.61	1.91	0.90
65	15,745	93.00	0.10	10995.60	4902.52	304.26	4911.93	4911.95	3.55	1.97	0.76



SURVEY CALCULATION PROGRAM

1/9/17 10:51

Company:	RKI Exploration & Production, LLC
Well Name:	RDX Federal COM 17-41H - OWB
Location:	Eddy County, NM
Rig:	H&P #509
Job Number:	DDMO-160584
API #:	30-015-42743

REFERENCED TO GRID NORTH

Proposed Direction:	3.39
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Survey Calculation Method:	Minimum Curvature
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PTC	MD	INC	AZM
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P/B:	10,973	54.7	359
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Depth	Inc	Azm	TVD	N/S
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#	Feet	Degrees	Degrees	Feet

TIE IN	0	0.00	0.00	0.00
				0.00

1	156	0.50	38.40	156.00	0.53
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2	334	0.70	24.60	333.99	2.13
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3	523	0.70	63.00	522.98	3.70
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Iteration	4	706	0.80	124.70	705.96	3.48
1	4	706	0.80	124.70	705.96	3.48

5	890	2.00	137.10	889.90	0.40
5	890	2.00	137.10	889.90	0.40

Iteration	1,012	2.20	162.90	1011.82	-3.40
6	1,012	2.20	162.90	1011.82	-3.40

[illegible]

8	1,343	0.40	217.40	1342.65	-13.49
9	1,522	0.00	102.70	1521.00	15.16

9	1,532	0.90	193.70	1531.63	-15.46
10	1,731	1.10	108.00	1720.61	18.63

	10	1,721	1.10	198.90	1720.61	-18.62
11	11	1,010	0.80	203.10	1000.58	21.56

11	1,910	0.60	203.40	1909.38	-21.33
12	2,100	0.80	165.00	2000.66	24.04

12	2,100	0.80	195.90	2099.30	-24.04
13	2,298	0.00	227.10	2287.54	-26.31

13	2,206	0.90	227.10	2267.34	-23.31
14	2,478	0.90	213.40	2477.52	-28.57

14	2,470	0.90	213.40	2477.32	-23.31
15	2,667	1.10	213.20	2666.49	-31.32

	1970	1980	1990	2000	2010
16	2,856	1,60	213.23	200.43	-35.09
17	2,856	1,60	213.23	200.43	-35.09

	1970	1980	1990	2000	2010
16	2,000	1,000	2,100	2,000	2,000
17	3,044	1,100	195,800	304,338	-39,060

18	3.234	1.30	160.70	3233.34	-42.85
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19	3.423	1.50	141.70	3422.29	-46.82
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Year	Rate	Rate	Rate
20	3.452	1.40	142.50
20			3451.28
			-47.39

21	3,599	0.70	157.80	3598.25	-49.65
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22	3,788	1.90	88.70	3787.21	-50.65
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23	3,977	2.20	68.20	3976.09	-49.23
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24	4,166	3.30	74.90	4164.87	-46.47
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25	4,356	5.60	81.70	4354.29	-43.70
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26	4,545	6.40	86.40	4542.25	-41.71
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27	4,733	8.40	93.60	4728.68	-41.91
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28	4,922	11.00	104.60	4914.98	-47.33
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29	5,112	11.10	115.40	5101.48	-59.74
20	5,001	10.00	110.70	5007.10	75.00

30	5,301	10.30	119.70	5287.19	-75.92
31	5,400	0.50	124.80	5473.28	00.51

31	5,490	9.50	121.80	5473.38	-92.31
32	5,678	9.70	121.80	5650.01	-108.18

32	5,070	6.70	121.60	3039.01	-103.10
33	5,867	7.30	123.80	5846.17	-122.39

[illegible]

Company:		RKI Exploration & Production, LLC											
Well Name:		RDX Federal COM 17-41H - OWB											
Location:		Eddy County, NM											
Rig:		H&P #509											
Job Number:		DDMO-160584											
API #:		30-015-42743											
Vertical Section Azimuth:		3.39		Proposed Direction:								3.39	
Survey Calculation Method:													
PTB:		MD		Inc		Azim		TVD		N/S			
		10,973		54.7				359					
Depth		Inc		Azim		TVD		N/S		Feet			
Feet		Degrees		Degrees		Feet		Feet		Feet			
#		Distance		Closure		Azim		DLS/		BUR/			
		100		100		100'		176.97		VS			
		275.31		160.97		N/S		E/W		VS			
		10831.29		E/W		Feet		Surface		Vert Sec			
		Feet		Feet		Feet		Feet		Feet			
		10831.29		160.97		N/S		E/W		Feet			
		Feet		Feet		Feet		Feet		Feet			
		10831.29		160.97		N/S		E/W		Feet			
		Feet		Feet		Feet		Feet		Feet			
		10831.29		160.97		N/S		E/W		Feet			
		Feet		Feet		Feet		Feet		Feet			
		10831.29		160.97		N/S		E/W		Feet			
		Feet		Feet		Feet		Feet		Feet			
		10831.29		160.97		N/S		E/W		Feet			
		Feet		Feet		Feet		Feet		Feet			
		10831.29		160.97		N/S		E/W		Feet			
		Feet		Feet		Feet		Feet		Feet			
		10831.29		160.97		N/S		E/W		Feet			
		Feet		Feet		Feet		Feet		Feet			
		10831.29		160.97		N/S		E/W		Feet			
		Feet		Feet		Feet		Feet		Feet			
		10831.29		160.97		N/S		E/W		Feet			
		Feet		Feet		Feet		Feet		Feet			
		10831.29		160.97		N/S		E/W		Feet			
		Feet		Feet		Feet		Feet		Feet			
		10831.29		160.97		N/S		E/W		Feet			
		Feet		Feet		Feet		Feet		Feet			
		10831.29		160.97		N/S		E/W		Feet			
		Feet		Feet		Feet		Feet		Feet			
		10831.29		160.97		N/S		E/W		Feet			
		Feet		Feet		Feet		Feet		Feet			
		10831.29		160.97		N/S		E/W		Feet			
		Feet		Feet		Feet		Feet		Feet			
		10831.29		160.97		N/S		E/W		Feet			
		Feet		Feet		Feet		Feet		Feet			
		10831.29		160.97		N/S		E/W		Feet			
		Feet		Feet		Feet		Feet		Feet			
		10831.29		160.97		N/S		E/W		Feet			
		Feet		Feet		Feet		Feet		Feet			
		10831.29		160.97		N/S		E/W		Feet			
		Feet		Feet		Feet		Feet		Feet			
		10831.29		160.97		N/S		E/W		Feet			
		Feet		Feet		Feet		Feet		Feet			
		10831.29		160.97		N/S		E/W		Feet			
		Feet		Feet		Feet		Feet		Feet			
		10831.29		160.97		N/S		E/W		Feet			
		Feet		Feet		Feet		Feet		Feet			
		10831.29		160.97		N/S		E/W		Feet			
		Feet		Feet		Feet		Feet		Feet			
		10831.29		160.97		N/S		E/W		Feet			
		Feet		Feet		Feet		Feet		Feet			
		10831.29		160.97		N/S		E/W		Feet			
		Feet		Feet		Feet		Feet		Feet			
		10831.29		160.97		N/S		E/W		Feet			
		Feet		Feet		Feet		Feet		Feet			
		10831.29		160.97		N/S		E/W		Feet			
		Feet		Feet		Feet		Feet		Feet			
		10831.29		160.97		N/S		E/W		Feet			
		Feet		Feet		Feet		Feet		Feet			
		10831.29		160.97		N/S		E/W		Feet			
		Feet		Feet		Feet		Feet		Feet			
		10831.29		160.97		N/S		E/W		Feet			
		Feet		Feet		Feet		Feet		Feet			
		10831.29		160.97		N/S		E/W		Feet			
		Feet		Feet		Feet		Feet		Feet			
		10831.29		160.97		N/S		E/W		Feet			
		Feet		Feet		Feet		Feet		Feet			
		10831.29		160.97		N/S		E/W		Feet			
		Feet		Feet		Feet		Feet		Feet			
		10831.29		160.97		N/S		E/W		Feet			
		Feet		Feet		Feet		Feet		Feet			
		10831.29		160.97		N/S		E/W		Feet			
		Feet		Feet		Feet		Feet		Feet			
		10831.29		160.97		N/S		E/W		Feet			
		Feet		Feet		Feet		Feet		Feet			
		10831.29		160.97		N/S		E/W		Feet			
		Feet		Feet		Feet		Feet		Feet			
		10831.29		160.97		N/S		E/W		Feet			
		Feet		Feet		Feet		Feet		Feet			
		10831.29		160.97		N/S		E/W		Feet			
		Feet		Feet		Feet		Feet		Feet			
		10831.29		160.97		N/S		E/W		Feet			
		Feet		Feet		Feet		Feet		Feet			
		10831.29		160.97		N/S		E/W		Feet			
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		10831.29		160.97		N/S		E/W		Feet			
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		10831.29		160.97		N/S		E/W		Feet			
		Feet		Feet		Feet		Feet		Feet			
		10831.29		160.97		N/S		E/W		Feet			
		Feet		Feet		Feet		Feet		Feet			
		10831.29		160.97		N/S		E/W		Feet			
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		10831.29		160.97		N/S		E/W		Feet			
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		10831.29		160.97		N/S		E/W		Feet			
		Feet		Feet		Feet		Feet		Feet			
		10831.29		160.97		N/S		E/W		Feet			
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		10831.29		160.97		N/S		E/W		Feet			
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		10831.29		160.97		N/S		E/W		Feet			
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		10831.29		160.97		N/S		E/W		Feet			
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		10831.29		160.97		N/S		E/W		Feet			
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		10831.29		160.97		N/S		E/W		Feet			
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		10831.29		160.97		N/S		E/W		Feet			
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		10831.29		160.97		N/S		E/W		Feet			
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		10831.29		160.97		N/S		E/W		Feet			
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		10831.29		160.97		N/S		E/W		Feet			
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		10831.29		160.97		N/S		E/W		Feet			
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		10831.29		160.97		N/S		E/W		Feet			
		Feet		Feet		Feet		Feet		Feet			
		10831.29		160.97		N/S		E/W		Feet			
		Feet		Feet		Feet		Feet		Feet			
		10831.29		160.97		N/S		E/W		Feet			
		Feet		Feet		Feet		Feet		Feet			
		10831.29		160.97		N/S		E/W		Feet			
		Feet		Feet		Feet		Feet		Feet			
		10831.29		160.97		N/S		E/W		Feet			
		Feet		Feet		Feet		Feet		Feet			
		10831.29		160.97		N/S		E/W		Feet</			

[illegible]



SURVEY CALCULATION PROGRAM

1/9/17 10:51

Company: RKI Exploration & Production, LLC
Well Name: RDX Federal COM 17-41H - OWB
Location: Eddy County, NM
Rig: H&P #509
Job Number: DDMO-160584
API #: 30-015-42743

Magnetic Declination: 6.98
REFERENCED TO GRID NORTH

Proposed Direction: 3.39

Vertical Section Azimuth: 3.39

Minimum Curvature

PTB:	MD		INC		AZM		TVD		N/S		E/W		VS	
	10,973		54.7		359		10831.29		160.97		275.31		176.97	
#	Depth Feet	Inc Degrees	Azm Degrees	TVD Feet	N/S Feet	E/W Feet	Surface Vert Sec	Distance	Closure Azm	DLS/ 100	BUR/ 100'			
34	6,056	6.00	127.90	6033.89	-135.14	268.06	-119.05	300.20	116.75	0.73	-0.69			
35	6,245	4.80	128.40	6222.05	-146.12	282.05	-129.19	317.66	117.39	0.64	-0.63			
36	6,434	2.30	140.30	6410.67	-153.95	290.67	-136.49	328.93	117.91	1.37	-1.32			
37	6,623	1.60	167.50	6599.57	-159.45	293.67	-141.80	334.16	118.50	0.60	-0.37			
38	6,812	1.30	179.10	6788.51	-164.16	294.27	-146.48	336.97	119.16	0.22	-0.16			
39	7,001	1.00	314.80	6977.49	-165.15	293.14	-147.52	336.46	119.40	1.13	-0.16			
40	7,190	0.70	303.70	7166.47	-163.34	291.01	-145.85	333.71	119.31	0.18	-0.16			
41	7,379	0.20	248.10	7355.46	-162.83	289.74	-145.41	332.36	119.33	0.32	-0.26			
42	7,567	0.80	240.60	7543.45	-163.59	288.29	-146.26	331.47	119.57	0.32	0.32			
43	7,756	1.00	338.60	7732.44	-162.71	286.54	-145.48	329.51	119.59	0.72	0.11			
44	7,945	1.60	305.00	7921.39	-159.66	283.78	-142.60	325.61	119.36	0.50	0.32			
45	8,134	2.10	296.60	8110.29	-156.59	278.52	-139.85	319.52	119.35	0.30	0.26			
46	8,323	1.50	343.80	8299.21	-152.67	274.73	-136.15	314.30	119.06	0.82	-0.32			
47	8,512	0.80	358.20	8488.17	-148.97	274.00	-132.51	311.88	118.53	0.40	-0.37			
48	8,701	0.50	353.50	8677.16	-146.83	273.87	-130.38	310.74	118.20	0.16	-0.16			
49	8,890	0.90	258.00	8866.15	-146.32	272.32	-129.96	309.14	118.25	0.57	0.21			
50	9,079	2.60	213.70	9055.06	-150.20	268.49	-134.06	307.65	119.22	1.09	0.90			
51	9,268	3.10	199.50	9243.83	-158.58	264.41	-142.67	308.32	120.95	0.46	0.26			
52	9,457	0.70	206.80	9432.71	-164.43	262.18	-148.64	309.48	122.09	1.27	-1.27			
53	9,646	0.40	132.00	9621.70	-165.90	262.15	-150.11	310.23	122.33	0.38	-0.16			
54	9,835	0.40	94.40	9810.70	-166.39	263.30	-150.53	311.47	122.29	0.14	0.00			
55	10,024	0.30	161.90	9999.70	-166.92	264.11	-151.01	312.43	122.29	0.21	-0.05			
56	10,213	0.90	194.50	10188.69	-168.82	263.89	-152.92	313.27	122.61	0.35	0.32			
57	10,286	0.60	112.10	10261.68	-169.52	264.10	-153.61	313.83	122.70	1.39	-0.41			
58	10,377	5.70	3.40	10352.53	-165.19	264.81	-149.24	312.11	121.96	6.51	5.60			
59	10,408	10.70	2.10	10383.21	-160.77	265.01	-144.82	309.96	121.24	16.14	16.13			
60	10,440	15.40	6.30	10414.37	-153.57	265.58	-137.60	306.79	120.04	14.97	14.69			
61	10,471	17.60	4.20	10444.09	-144.81	266.38	-128.80	303.19	118.53	7.35	7.10			
62	10,503	20.20	3.80	10474.37	-134.47	267.10	-118.44	299.04	116.72	8.14	8.12			
63	10,534	24.50	4.00	10503.03	-122.71	267.90	-106.65	294.67	114.61	13.87	13.87			
64	10,597	30.30	3.50	10558.94	-93.79	269.78	-77.67	285.62	109.17	9.21	9.21			
65	10,644	34.80	2.70	10598.55	-68.55	271.14	-52.39	279.67	104.19	9.62	9.57			
66	10,691	37.10	5.70	10636.60	-41.04	273.18	-24.81	276.25	98.54	6.16	4.89			
67	10,738	39.80	7.10	10673.40	-12.00	276.45	4.37	276.71	92.49	6.04	5.74			



MS Energy Services

Company:

Well Name:

Location:

Rig:

Job Number:

API #:

Vertical Section Azimuth:

Survey Calculation Method:

RKI Exploration & Production, LLC

RDX Federal COM 17-41H - OWB

Eddy County, NM

H&P #509

DDMO-160584

30-015-42743

3.39

Minimum Curvature

PTB:

MD

10,973

Depth

Feet

Inc

Degrees

42.60

Azm

Degrees

1.80

TVD

Feet

10709.52

Feet

19.50

N/S

Feet

41.16

Surface

Vert Sec

35.95

E/W

Feet

278.86

Distance

279.54

Closure

Azm

86.00

DLS/

100

VS

176.97

BUR/

100'

68

10,786

42.60

1.80

10709.52

19.50

41.16

35.95

278.86

279.54

86.00

9.32

5.83

69

10,817

46.10

358.30

10731.69

41.16

57.57

281.88

281.88

81.60

13.77

11.29

70

10,880

49.30

357.50

10774.09

87.72

103.95

290.69

290.69

72.44

5.17

5.08

71

10,917

51.50

358.70

10797.67

116.21

132.33

299.65

299.65

67.18

6.45

5.95

Vertical Section Azimuth:

Proposed Direction:

3.39

3.39

Magnetic Declination:

6.98

REFERENCED TO GRID NORTH

▼

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