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Fort Worth, Texas 76140

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www.msenergyservices.com

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

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

GAS CAPTURE PLAN, Cont.

RKI Exploration and Production, LLC:

Gas Capture Plan: Delaware Basin Midstream, LLC Processing Plant Information

RKI Exploration and Production, LLC has the ability to deliver to the below listed Gas Processing Plants.

Delaware Basin Midstream, LLC

Block 58-T1-Section 36
Reeves County, Texas



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		Surface		Closure		DLS/		BUR/	
		Depth		Feet	Inc	Degrees	Feet	Azm	Feet	TVD	Feet	Feet	Feet	Feet	Vert	Sec	Distance	Azm	100'	100'	
		10,973			54.7		359		10831.29		160.97		275.31								



SURVEY CALCULATION PROGRAM

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Magnetic Declination: 6.98

REFERENCED TO GRID NORTH

Proposed Direction: 3.39

Vertical Section Azimuth: 3.39

Minimum Curvature

Survey Calculation Method: MD

INC 54.7

PTB: 10,973

AZM 359

#

Depth

Feet

Inc

Degrees

Azimuth

TVD

Feet

N/S

Feet

E/W

Feet

Surface

Vert Sec

Distance

Azimuth

Closure

E/W

DLS/

100

BUR/

100'

34

6,056

127.90

6033.89

-135.14

268.06

-119.05

300.20

116.75

0.73

35

6,245

4.80

6222.05

-146.12

282.05

-129.19

317.66

117.39

0.64

36

6,434

2.30

6410.67

-153.95

290.67

-136.49

328.93

117.91

1.37

37

6,623

1.60

6599.57

-159.45

293.67

-141.80

334.16

118.50

0.60

38

6,812

1.30

6788.51

-164.16

294.27

-146.48

336.97

119.16

0.22

39

7,001

1.00

6977.49

-165.15

293.14

-147.52

336.46

119.40

1.13

40

7,190

0.70

7166.47

-163.34

291.01

-145.85

333.71

119.31

0.18

41

7,379

0.20

7355.46

-162.83

289.74

-145.41

332.36

119.33

0.32

42

7,567

0.80

7543.45

-163.59

288.29

-146.26

331.47

119.57

0.32

43

7,756

1.00

7732.44

-162.71

286.54

-145.48

329.51

119.59

0.72

44

7,945

1.60

7921.39

-159.66

283.78

-142.60

325.61

119.36

0.50

45

8,134

2.10

8110.29

-156.59

278.52

-139.85

319.52

119.35

0.30

46

8,323

1.50

8299.21

-152.67

274.73

-136.15

314.30

119.06

0.82

47

8,512

0.80

8488.17

-148.97

274.00

-132.51

311.88

118.53

0.40

48

8,701

0.50

8677.16

-146.83

273.87

-130.38

310.74

118.25

0.16

49

8,890

0.90

8866.15

-146.32

272.32

-129.96

309.14

118.25

0.57

50

9,079

2.60

9055.06

-150.20

268.49

-134.06

307.65

119.22

1.09

51

9,268

3.10

9243.83

-158.58

264.41

-142.67

308.32

120.95

0.46

52

9,457

0.70

9432.71

-164.43

262.18

-148.64

309.48

122.09

1.27

53

9,646

0.40

9621.70

-165.90

262.15

-150.11

310.23

122.33

0.38

54

9,835

0.40

9810.70

-166.39

263.30

-150.53

311.47

122.29

0.14

55

10,024

0.30

9999.70

-166.92

264.11

-151.01

312.43

122.29

0.21

56

10,213

0.90

10188.69

-168.82

263.89

-152.92

313.27

122.61

0.35

57

10,286

0.60

10261.68

-169.52

264.10

-153.61

313.83

122.70

1.39

58

10,377

5.70

10352.53

-165.19

264.81

-149.24

312.11

121.96

6.51

59

10,408

10.70

10383.21

-160.77

265.01

-144.82

309.96

121.24

16.14

60

10,440

15.40

10414.37

-153.57

265.58

-137.60

306.79

120.04

14.97

61

10,471

17.60

10444.09

-144.81

266.38

-128.80

303.19

118.53

7.35

62

10,503

20.20

10474.37

-134.47

267.10

-118.44

299.04

116.72

8.14

63

10,534

24.50

10503.03

-122.71

267.90

-106.65

294.67

114.61

13.87

64

10,597

30.30

10558.94

-93.79

269.78

-77.67

285.62

109.17

9.21

65

10,644

34.80

10598.55

-68.55

271.14

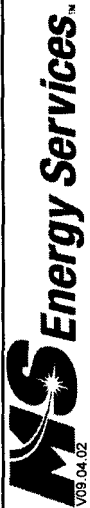
-52.39

279.67

104.19

9.62

66



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

Survey Calculation Method: Minimum Curvature

#	Depth Feet	Inc		Azim		TVD		N/S		E/W		Surface		Closure		DLS/		BUR/ 100'
		Depth	Feet	Inc	Degrees	Azim	Degrees	Feet	N/S	Feet	E/W	Feet	Vert Sec	Distance	Azm	100	100'	
PTB:		10,973		MD				359		10831.29		160.97		275.31				VS
68	10,786	42.60		1.80		10709.52		19.50		278.86		35.95		279.54	86.00	9.32	5.83	
69	10,817	46.10		358.30		10731.69		41.16		278.86		57.57		281.88	81.60	13.77	11.29	
70	10,880	49.30		357.50		10774.09		87.72		277.14		103.95		290.69	72.44	5.17	5.08	
71	10,917	51.50		358.70		10797.67		116.21		276.20		132.33		299.65	67.18	6.45	5.95	



V09 04.02

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		Inc	Azim		TVD	Feet	N/S	Feet	E/W	Feet	Surface	Vert Sec	Distance	Closure		DLS/100	BUR/100'
	Feet	Feet		Degrees	Degrees										Azm	E/W		

TIE IN	10,503	20.20	3.80	10474.37	-134.47	267.10	-118.44	299.04	116.72	7.14	4.31
1	10,554	22.40	11.80	10521.89	-116.17	269.67	-100.02	293.63	113.30	7.14	4.31
2	10,595	26.50	12.80	10559.21	-99.59	273.30	-83.26	290.88	110.02	10.05	10.00
3	10,627	29.90	10.80	10587.41	-84.79	276.37	-68.30	289.09	107.06	11.03	10.63
4	10,690	38.20	5.90	10639.57	-49.92	281.33	-33.20	285.72	100.06	13.87	13.17
5	10,737	44.20	3.80	10674.92	-19.09	283.91	-2.27	284.55	93.85	13.10	12.77
6	10,784	48.30	4.50	10707.41	14.76	286.37	31.67	286.75	87.05	8.79	8.72
7	10,831	51.30	8.50	10737.75	50.41	290.46	67.50	294.81	80.15	9.11	6.38
8	10,879	55.00	11.10	10766.54	88.24	297.02	105.65	309.85	73.45	8.84	7.71
9	10,926	57.20	11.80	10792.75	126.48	304.77	144.28	329.97	67.46	4.84	4.68
10	10,973	58.50	10.50	10817.76	165.52	312.46	183.70	353.59	62.09	3.62	2.77
11	11,020	60.10	9.00	10841.76	205.34	319.30	223.86	379.63	57.25	4.37	3.40
12	11,068	64.60	6.20	10864.03	247.47	324.90	266.25	408.41	52.70	10.70	9.37
13	11,162	68.60	2.40	10901.37	333.46	331.32	352.47	470.08	44.82	5.84	4.26
14	11,257	71.20	357.30	10934.03	422.63	331.05	441.47	536.86	38.07	5.74	2.74
15	11,352	77.50	355.60	10959.65	513.89	325.37	532.23	608.23	32.34	6.85	6.63
16	11,381	83.00	355.40	10964.56	542.37	323.13	560.53	631.33	30.79	18.98	18.97
17	11,458	87.60	357.30	10970.86	618.93	318.25	636.66	695.96	27.21	6.46	5.97
18	11,548	89.40	358.30	10973.22	708.83	314.80	726.20	775.59	23.95	2.29	2.00
19	11,638	90.50	358.10	10973.30	798.78	311.97	815.83	857.54	21.33	1.24	1.22
20	11,727	91.40	358.10	10971.82	887.72	309.02	904.44	939.97	19.19	1.01	1.01
21	11,817	91.00	357.80	10969.94	977.64	305.80	994.01	1024.35	17.37	0.56	-0.44
22	11,907	90.80	356.90	10968.52	1067.53	301.64	1083.50	1109.33	15.78	1.02	-0.22
23	11,997	91.00	359.00	10967.11	1157.46	298.42	1173.08	1195.31	14.46	2.34	0.22
24	12,087	88.70	358.80	10967.35	1247.44	296.69	1262.80	1282.23	13.38	2.57	-2.56
25	12,177	88.20	359.00	10969.78	1337.39	294.97	1352.49	1369.53	12.44	0.60	-0.56
26	12,267	89.20	0.10	10971.82	1427.36	294.26	1442.26	1457.37	11.65	1.65	1.11
27	12,357	89.10	0.40	10973.16	1517.35	294.65	1532.12	1545.69	10.99	0.35	-0.11
28	12,447	86.80	359.70	10976.38	1607.28	294.73	1621.90	1634.08	10.39	2.67	-2.56
29	12,537	86.70	0.10	10981.48	1697.14	294.57	1711.59	1722.51	9.85	0.46	-0.11
30	12,627	89.60	359.50	10984.38	1787.08	294.26	1801.35	1811.14	9.35	3.29	3.22
31	12,717	89.00	358.10	10985.48	1877.05	292.38	1891.06	1899.69	8.85	1.69	-0.67
32	12,807	89.20	359.50	10986.90	1967.02	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

REFERENCED TO GRID NORTH

Magnetic Declination: 6.98

Vertical Section Azimuth: 3.39

Proposed Direction: 3.39

Survey Calculation Method: Minimum Curvature

#	Depth Feet	Inc		Azim	TVD		N/S	E/W		Surface Vert Sec	Closure		DLS/ 100'	BUR/ 100'
		MD	15,796	Degrees	Inc	Feet	0.1	Feet	10992.93	N/S	Distance	Azm		
34	12,987			88.70	358.60	10989.96	2146.98	288.37	2160.27	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	4131.16	4131.91	4.48	3.23	2.89
57	15,051			87.40	0.40	11007.32	4209.25	323.88	4221.03	4221.03	4221.69	4.40	2.88	-2.78
58	15,140			89.60	359.60	11009.65	4298.21	323.88	4309.84	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	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	4489.23	4489.56	4.09	2.62	1.56
61	15,410			92.50	357.60	11008.63	4568.02	315.87	4578.70	4578.70	4578.92	3.96	2.27	2.22
62	15,500			92.10	357.30	11005.01	4657.85	311.87	4668.15	4668.15	4668.28	3.83	0.56	-0.44
63	15,590			91.70	357.40	11002.03	4747.71	307.71	4757.60	4757.60	4757.67	3.71	0.46	-0.44
64	15,679			92.50	358.90	10998.77	4836.60	304.84	4846.16	4846.16	4846.20	3.61	1.91	0.90
65	15,745			93.00	0.10	10995.60	4902.52	304.26	4911.93	4911.93	4911.95	3.55	1.97	0.76