

WPXENERGY



WPX

Eddy County, NM (Nad83NME)
Sec 17-T26S-R30E
RDX Fed Com 17-40H

STO1

Design: STO1

QES Survey Report

07 June, 2016

30-015 43634

NM OIL CONSERVATION
ARTESIA DISTRICT

OCT 31 2016

RECEIVED

QES
Geophysical Services

Quintana Energy Services

11390 FM 830
Willis, TX 77318
Phone: (936) 856-4332
Fax: (936) 856-8678



Survey Certification Sheet

Company	Job Number	Date
RKI EXPLORATION & PRODUCTION, LLC (WPX)	WT-160156	6/9/2015

Lease	Well Name	County & State
Sec7,T26S,R30E	RDX FEDERAL COM 17 40H	Eddy, NM

API No.	Survey Depth Range	Survey Type
30-015-43634	158 feet to 15471 feet MD	MWD

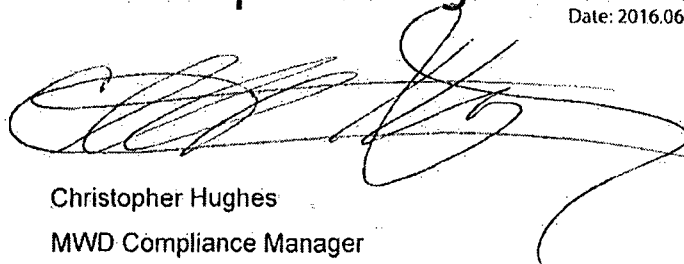
Sidetrack Information	Directional Supervisor/Surveyor
5/02/2015 - 6/03/2015	Richard Tibbitts

Certification Statement

The data and calculations for this survey have been checked by me and conform to the standards and procedures set forth by Quintana Energy Services (QES). This report represents a true and correct directional survey of this well based on the original data obtained at the well site. Wellbore coordinates are calculated using minimum curvature.

Christopher Hughes

Digitally signed by Christopher Hughes
DN: cn=Christopher Hughes, o=QES, ou=compliance,
email=chrish@qeslp.com, c=US
Date: 2016.06.10 08:27:12 -05'00'



Christopher Hughes
MWD Compliance Manager

Company:	WPX	Local Co-ordinate Reference:	Well RDX Fed Com 17-40H
Project:	Eddy County, NM (Nad83NME)	TVD Reference:	Well @ 3111.0usft (Orion - Phoenix)
Site:	Sec 17-T26S-R30E	MD Reference:	Well @ 3111.0usft (Orion - Phoenix)
Well:	RDX Fed Com 17-40H	North Reference:	Grid
Wellbore:	STO1	Survey Calculation Method:	Minimum Curvature
Design:	STO1	Database:	EDM5002

Project	Eddy County, NM (Nad83NME)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Sec 17-T26S-R30E				
Site Position:		Northing:	381,974.10 usft	Latitude:	32° 2' 57.901 N
From:	Map	Easting:	672,766.00 usft	Longitude:	103° 54' 32.861 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.23 °

Well	RDX Fed Com 17-40H					
Well Position	+N/-S	0.0 usft	Northing:	381,973.00 usft	Latitude:	32° 2' 57.768 N
	+E/-W	0.0 usft	Easting:	675,868.90 usft	Longitude:	103° 53' 56.808 W
Position Uncertainty	0.0 usft		Wellhead Elevation:	0.0 usft	Ground Level:	3,086.0 usft

Wellbore STO1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	5/18/2016	7.21	59.86	47,912

Design STO1

Audit Notes:

Version:	1.0	Phase:	ACTUAL	Tie On Depth:	6,011.0
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Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	168.94

Survey Program Date: 6/3/2016

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
158.0	6,011.0	MWD (STO0)	MWD	MWD - Standard
6,171.0	15,471.0	MWD Surveys (STO1)	MWD	MWD - Standard

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
158.0	0.30	62.40	158.0	0.2	0.4	-0.1	0.19	0.19	0.00
340.0	0.40	95.10	340.0	0.4	1.4	-0.1	0.12	0.05	17.97
497.0	0.30	139.30	497.0	0.0	2.2	0.4	0.18	-0.06	28.15
687.0	0.60	156.90	687.0	-1.3	3.0	1.8	0.17	0.16	9.26
877.0	0.60	179.40	877.0	-3.2	3.4	3.8	0.12	0.00	11.84
1,059.0	1.60	143.20	1,058.9	-8.2	4.9	7.0	0.64	0.55	-19.89
1,179.0	1.70	125.80	1,178.9	-8.6	7.3	9.8	0.42	0.08	-14.50
1,274.0	1.40	122.40	1,273.9	-10.0	9.5	11.7	0.33	-0.32	-3.58
1,464.0	1.20	121.30	1,463.8	-12.3	13.1	14.6	0.11	-0.11	-0.58

Company: WPX
 Project: Eddy County, NM (Nad83NME)
 Site: Sec 17-T26S-R30E
 Well: RDX Fed Com 17-40H
 Wellbore: STO1
 Design: STO1

Local Co-ordinate Reference: Well RDX Fed Com 17-40H
 TVD Reference: Well @ 3111.0usft (Orion - Phoenix)
 MD Reference: Well @ 3111.0usft (Orion - Phoenix)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM5002

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,559.0	0.80	129.50	1,558.8	-13.2	14.5	15.8	0.45	-0.42	8.63
1,653.0	0.80	126.30	1,652.8	-14.0	15.5	16.8	0.05	0.00	-3.40
1,748.0	0.90	109.50	1,747.8	-14.7	16.7	17.6	0.28	0.11	-17.68
1,843.0	0.70	129.20	1,842.8	-15.3	17.9	18.5	0.36	-0.21	20.74
1,938.0	0.30	93.90	1,937.8	-15.7	18.6	19.0	0.51	-0.42	-37.16
2,032.0	0.10	12.00	2,031.8	-15.6	18.9	19.0	0.32	-0.21	-87.13
2,127.0	0.10	39.50	2,126.8	-15.5	18.9	18.8	0.05	0.00	28.95
2,222.0	0.30	136.70	2,221.8	-15.6	19.2	19.0	0.35	0.21	102.32
2,317.0	0.30	92.00	2,316.8	-15.8	19.6	19.2	0.24	0.00	-47.05
2,411.0	0.30	351.30	2,410.8	-15.5	19.8	19.1	0.49	0.00	-107.13
2,506.0	0.30	343.30	2,505.8	-15.1	19.7	18.6	0.04	0.00	-8.42
2,600.0	0.30	337.40	2,599.8	-14.6	19.5	18.1	0.03	0.00	-6.28
2,695.0	0.40	314.60	2,694.8	-14.1	19.2	17.6	0.18	0.11	-24.00
2,789.0	0.30	273.50	2,788.8	-13.9	18.7	17.2	0.28	-0.11	-43.72
2,884.0	0.40	65.30	2,883.8	-13.7	18.7	17.1	0.72	0.11	159.79
2,979.0	0.70	122.90	2,978.7	-13.9	19.5	17.4	0.62	0.32	60.63
3,074.0	0.60	123.50	3,073.7	-14.5	20.4	18.2	0.11	-0.11	0.63
3,169.0	0.90	125.40	3,168.7	-15.2	21.5	19.0	0.32	0.32	2.00
3,264.0	1.50	109.40	3,263.7	-16.1	23.2	20.2	0.72	0.63	-16.84
3,358.0	1.20	119.10	3,357.7	-16.9	25.3	21.5	0.40	-0.32	10.32
3,454.0	1.20	98.90	3,453.7	-17.6	27.1	22.5	0.44	0.00	-21.04
3,549.0	1.10	93.80	3,548.6	-17.8	29.0	23.0	0.15	-0.11	-5.37
3,644.0	2.80	93.30	3,643.6	-18.0	32.3	23.9	1.79	1.79	-0.53
3,740.0	4.90	85.90	3,739.4	-17.8	38.7	24.9	2.24	2.19	-7.71
3,835.0	6.80	81.50	3,833.9	-16.7	48.3	25.7	2.05	2.00	-4.63
3,930.0	8.70	78.50	3,928.0	-14.5	60.9	25.9	2.04	2.00	-3.16
4,025.0	8.40	78.90	4,021.9	-11.7	74.8	25.8	0.32	-0.32	0.42
4,120.0	8.70	78.20	4,115.9	-8.9	88.6	25.7	0.33	0.32	-0.74
4,215.0	9.10	77.50	4,209.7	-5.8	103.0	25.4	0.44	0.42	-0.74
4,311.0	8.70	77.00	4,304.6	-2.5	117.4	25.0	0.42	-0.42	-0.52
4,405.0	8.40	78.40	4,397.5	0.5	131.1	24.7	0.39	-0.32	1.49
4,500.0	8.40	82.40	4,491.5	2.8	144.8	25.0	0.61	0.00	4.21
4,595.0	9.50	80.80	4,585.4	5.0	159.4	25.7	1.19	1.16	-1.68
4,690.0	9.50	79.90	4,679.1	7.6	174.8	26.1	0.16	0.00	-0.95
4,785.0	9.20	80.60	4,772.8	10.2	190.1	26.5	0.34	-0.32	0.74
4,880.0	9.10	78.40	4,866.6	12.9	204.9	26.6	0.38	-0.11	-2.32
4,975.0	8.10	80.20	4,960.5	15.6	218.9	26.7	1.09	-1.05	1.89
5,070.0	8.80	80.60	5,054.5	17.9	232.6	27.0	0.74	0.74	0.42
5,165.0	7.70	83.60	5,148.5	19.8	246.1	27.8	1.24	-1.16	3.16
5,260.0	8.00	82.50	5,242.6	21.4	259.0	28.7	0.35	0.32	-1.16
5,354.0	8.90	78.40	5,335.6	23.7	272.6	29.0	1.15	0.96	-4.36
5,449.0	9.00	79.10	5,429.4	26.6	287.1	29.0	0.16	0.11	0.74
5,544.0	8.40	80.40	5,523.3	29.2	301.2	29.2	0.66	-0.63	1.37

Company:	WPX	Local Co-ordinate Reference:	Well RDX Fed Com 17-40H
Project:	Eddy County, NM (Nad83NME)	TVD Reference:	Well @ 3111.0usft (Orion - Phoenix)
Site:	Sec 17-T26S-R30E	MD Reference:	Well @ 3111.0usft (Orion - Phoenix)
Well:	RDX Fed Com 17-40H	North Reference:	Grid
Wellbore:	STO1	Survey Calculation Method:	Minimum Curvature
Design:	STO1	Database:	EDM5002

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,637.0	9.20	78.10	5,615.3	31.8	315.2	29.2	0.94	0.86	-2.47
5,732.0	9.30	75.50	5,709.0	35.3	330.1	28.7	0.45	0.11	-2.74
5,821.0	8.60	77.30	5,796.9	38.6	343.5	28.0	0.85	-0.79	2.02
5,916.0	9.00	75.70	5,890.8	42.0	357.7	27.4	0.49	0.42	-1.68
Tie In @ 6011' MD / 5984' TVD									
6,011.0	9.80	75.00	5,984.5	45.9	372.7	26.5	0.85	0.84	-0.74
6,171.0	10.50	109.80	6,142.2	44.5	399.6	33.0	3.80	0.44	21.75
6,266.0	11.30	108.50	6,235.5	38.6	416.5	42.0	0.88	0.84	-1.37
6,361.0	11.80	99.50	6,328.5	34.0	435.0	50.0	1.97	0.53	-9.47
6,456.0	12.40	94.90	6,421.4	31.6	454.7	56.3	1.19	0.63	-4.84
6,551.0	11.60	91.80	6,514.4	30.4	474.4	61.2	1.08	-0.84	-3.26
6,646.0	11.90	90.70	6,607.4	30.0	493.7	65.3	0.39	0.32	-1.16
6,741.0	11.80	88.70	6,700.3	30.1	513.2	68.9	0.44	-0.11	-2.11
6,836.0	9.50	90.10	6,793.7	30.3	530.8	72.1	2.44	-2.42	1.47
6,931.0	9.00	91.70	6,887.5	30.0	546.1	75.3	0.59	-0.53	1.68
7,026.0	10.00	85.00	6,981.2	30.5	561.7	77.8	1.57	1.05	-7.05
7,121.0	10.50	84.80	7,074.7	32.0	578.6	79.5	0.53	0.53	-0.21
7,217.0	10.90	85.60	7,169.0	33.5	596.3	81.5	0.44	0.42	0.83
7,312.0	9.90	78.80	7,262.4	35.8	613.3	82.5	1.66	-1.05	-7.16
7,406.0	9.70	75.30	7,355.1	39.4	628.9	82.0	0.67	-0.21	-3.72
7,502.0	9.40	76.10	7,449.7	43.3	644.3	81.1	0.34	-0.31	0.83
7,597.0	9.00	76.10	7,543.5	47.0	659.0	80.3	0.42	-0.42	0.00
7,692.0	9.10	76.40	7,637.3	50.5	673.6	79.6	0.12	0.11	0.32
7,787.0	8.80	75.10	7,731.2	54.2	687.9	78.8	0.38	-0.32	-1.37
7,882.0	9.40	72.70	7,825.0	58.3	702.3	77.5	0.75	0.63	-2.53
7,977.0	6.50	65.40	7,919.0	62.9	714.6	75.4	3.23	-3.05	-7.68
8,072.0	4.90	65.10	8,013.6	66.8	723.2	73.1	1.68	-1.68	-0.32
8,167.0	5.10	73.30	8,108.2	69.8	730.9	71.8	0.78	0.21	8.63
8,262.0	6.20	91.50	8,202.8	70.8	740.1	72.5	2.20	1.16	19.16
8,358.0	8.20	76.30	8,298.0	72.3	751.9	73.3	2.86	2.08	-15.83
8,453.0	8.40	78.40	8,392.0	75.3	765.3	72.9	0.38	0.21	2.21
8,547.0	7.70	79.00	8,485.1	77.9	778.2	72.8	0.75	-0.74	0.64
8,642.0	9.50	77.00	8,579.0	80.9	792.1	72.6	1.92	1.89	-2.11
8,737.0	8.10	74.40	8,672.9	84.4	806.2	71.8	1.53	-1.47	-2.74
8,832.0	6.70	75.60	8,767.1	87.6	818.0	70.9	1.48	-1.47	1.26
8,927.0	6.80	93.50	8,861.4	88.7	829.0	72.0	2.21	0.11	18.84
9,022.0	7.50	109.70	8,955.7	86.2	840.4	76.6	2.24	0.74	17.05
9,117.0	7.50	124.90	9,049.9	80.6	851.3	84.2	2.08	0.00	16.00
9,211.0	5.80	120.90	9,143.3	74.6	860.5	91.8	1.87	-1.81	-4.26
9,306.0	2.90	117.20	9,238.0	71.1	866.7	96.5	3.07	-3.05	-3.89
9,402.0	1.80	133.60	9,333.9	68.9	870.0	99.3	1.33	-1.15	17.08
9,497.0	1.80	159.70	9,428.9	66.5	871.6	101.9	0.86	0.00	27.47
9,592.0	1.50	147.40	9,523.8	64.0	872.8	104.6	0.49	-0.32	-12.95

Company: WPX
 Project: Eddy County, NM (Nad83NME)
 Site: Sec 17-T26S-R30E
 Well: RDX Fed Com 17-40H
 Wellbore: STO1
 Design: STO1

Local Co-ordinate Reference: Well RDX Fed Com 17-40H
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9,687.0	2.40	180.80	9,618.8	61.0	873.4	107.7	1.49	0.95	35.16
9,782.0	2.40	188.30	9,713.7	57.1	873.1	111.5	0.33	0.00	7.89
9,878.0	4.30	179.60	9,809.5	51.5	872.8	116.9	2.04	1.98	-9.06
9,972.0	3.00	190.70	9,903.3	45.5	872.4	122.7	1.57	-1.38	11.81
10,067.0	0.50	199.50	9,998.3	42.7	871.8	125.3	2.64	-2.63	9.26
10,162.0	0.30	196.80	10,093.3	42.1	871.6	125.9	0.21	-0.21	-2.84
10,194.0	0.70	186.30	10,125.3	41.8	871.5	126.2	1.28	1.25	-32.81
10,225.0	2.50	161.50	10,156.3	41.0	871.7	127.0	6.09	5.81	-80.00
10,257.0	4.80	161.20	10,188.2	39.0	872.4	129.1	7.19	7.19	-0.94
10,289.0	7.20	162.60	10,220.0	35.8	873.4	132.4	7.51	7.50	4.38
10,320.0	9.50	162.30	10,250.7	31.6	874.8	136.8	7.42	7.42	-0.97
10,352.0	12.10	161.80	10,282.1	25.8	876.6	142.8	8.13	8.13	-1.56
10,384.0	14.50	160.40	10,313.3	18.9	879.0	150.1	7.57	7.50	-4.38
10,415.0	15.90	160.60	10,343.2	11.2	881.7	158.1	4.52	4.52	0.65
10,447.0	17.30	160.20	10,373.8	2.6	884.8	167.2	4.39	4.38	-1.25
10,478.0	19.70	159.70	10,403.2	-6.6	888.2	176.9	7.76	7.74	-1.61
10,510.0	23.00	160.00	10,433.0	-17.6	892.2	188.4	10.32	10.31	0.94
10,542.0	27.30	161.30	10,462.0	-30.4	896.7	201.8	13.55	13.44	4.06
10,573.0	31.60	163.20	10,489.0	-44.9	901.3	217.0	14.19	13.87	6.13
10,605.0	35.00	164.10	10,515.7	-61.8	906.2	234.5	10.74	10.63	2.81
10,636.0	38.00	165.10	10,540.6	-79.5	911.1	252.9	9.87	9.68	3.23
10,668.0	41.10	165.80	10,565.3	-99.3	916.2	273.2	9.79	9.69	2.19
10,731.0	45.40	168.50	10,611.2	-141.3	925.8	316.3	7.43	6.83	4.29
10,794.0	45.20	168.00	10,655.5	-185.2	934.9	361.1	0.65	-0.32	-0.79
10,826.0	46.20	168.40	10,677.9	-207.6	939.6	384.0	3.25	3.13	1.25
10,857.0	48.70	169.80	10,698.8	-230.0	943.9	406.8	8.72	8.06	4.52
10,889.0	51.50	173.50	10,719.3	-254.3	947.5	431.3	12.46	8.75	11.56
10,921.0	53.70	177.20	10,738.8	-279.6	949.5	456.6	11.47	6.88	11.56
10,953.0	56.40	179.10	10,757.1	-305.8	950.3	482.5	9.74	8.44	5.94
10,984.0	59.60	179.70	10,773.5	-332.1	950.6	508.3	10.45	10.32	1.94
11,016.0	63.30	178.90	10,788.8	-360.2	951.0	536.0	11.77	11.56	-2.50
11,047.0	66.90	177.90	10,801.9	-388.3	951.8	563.7	11.98	11.61	-3.23
11,079.0	69.80	177.50	10,813.7	-418.0	952.9	593.1	9.14	9.06	-1.25
11,111.0	72.70	179.20	10,824.0	-448.3	953.8	623.0	10.36	9.06	5.31
11,143.0	77.10	179.90	10,832.3	-479.2	954.1	653.3	13.91	13.75	2.19
11,174.0	81.10	181.10	10,838.2	-509.7	953.8	683.2	13.45	12.90	3.87
11,206.0	84.40	181.40	10,842.2	-541.4	953.1	714.2	10.35	10.31	0.94
11,243.0	88.50	180.80	10,844.6	-578.3	952.4	750.3	11.20	11.08	-1.62
11,340.0	91.60	180.40	10,844.4	-675.3	951.4	845.2	3.22	3.20	-0.41
11,420.0	91.00	181.50	10,842.6	-755.2	950.0	923.5	1.57	-0.75	1.38
11,515.0	88.80	180.80	10,842.8	-850.2	948.1	1,016.3	-2.43	-2.32	-0.74
11,609.0	88.60	180.60	10,844.9	-944.2	947.0	1,108.3	0.30	-0.21	-0.21
11,704.0	88.80	180.40	10,847.1	-1,039.2	946.2	1,201.4	0.30	0.21	-0.21
11,797.0	89.20	179.00	10,848.7	-1,132.1	946.6	1,292.7	1.57	0.43	-1.51

Company: WPX
 Project: Eddy County, NM (Nad83NME)
 Site: Sec 17-T26S-R30E
 Well: RDX Fed Com 17-40H
 Wellbore: STO1
 Design: STO1

Local Co-ordinate Reference: Well RDX Fed Com 17-40H
 TVD Reference: Well @ 3111.0usft (Orion - Phoenix)
 MD Reference: Well @ 3111.0usft (Orion - Phoenix)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM5002

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,891.0	89.90	178.40	10,849.4	-1,226.1	948.8	1,385.4	0.98	0.74	-0.64
11,985.0	90.40	178.90	10,849.2	-1,320.1	951.0	1,478.0	0.75	0.53	0.53
12,079.0	91.10	179.40	10,847.9	-1,414.1	952.4	1,570.5	0.92	0.74	0.53
12,173.0	91.30	178.20	10,846.0	-1,508.0	954.4	1,663.1	1.29	0.21	-1.28
12,268.0	92.00	178.40	10,843.2	-1,602.9	957.2	1,756.8	0.77	0.74	0.21
12,362.0	89.80	180.20	10,841.8	-1,696.9	958.3	1,849.2	3.02	-2.34	1.91
12,457.0	90.10	180.40	10,841.8	-1,791.9	957.8	1,942.4	0.38	0.32	0.21
12,552.0	90.60	180.20	10,841.3	-1,886.9	957.3	2,035.5	0.57	0.53	-0.21
12,647.0	90.00	181.50	10,840.8	-1,981.9	955.9	2,128.5	1.51	-0.63	1.37
12,741.0	88.70	179.60	10,841.8	-2,075.9	955.0	2,220.5	2.45	-1.38	-2.02
12,836.0	89.70	181.90	10,843.2	-2,170.9	953.8	2,313.5	2.64	1.05	2.42
12,930.0	91.30	182.40	10,842.3	-2,264.8	950.2	2,405.0	1.78	1.70	0.53
13,025.0	92.60	182.80	10,839.1	-2,359.6	945.9	2,497.3	1.43	1.37	0.42
13,120.0	91.30	181.10	10,835.9	-2,454.5	942.7	2,589.8	2.25	-1.37	-1.79
13,214.0	92.40	181.40	10,832.8	-2,548.4	940.7	2,681.6	1.21	1.17	0.32
13,309.0	91.30	180.70	10,829.8	-2,643.4	938.9	2,774.4	1.37	-1.16	-0.74
13,403.0	88.00	179.10	10,830.3	-2,737.4	939.1	2,866.7	3.90	-3.51	-1.70
13,497.0	87.50	179.30	10,834.0	-2,831.3	940.4	2,959.1	0.57	-0.53	0.21
13,592.0	88.40	179.40	10,837.4	-2,926.2	941.5	3,052.5	0.95	0.95	0.11
13,686.0	88.70	179.60	10,839.8	-3,020.2	942.3	3,144.8	0.38	0.32	0.21
13,780.0	89.40	179.60	10,841.4	-3,114.2	942.9	3,237.2	0.74	0.74	0.00
13,874.0	89.80	180.00	10,842.0	-3,208.2	943.3	3,329.5	0.60	0.43	0.43
13,968.0	89.00	180.20	10,843.0	-3,302.1	943.1	3,421.7	0.88	-0.85	0.21
14,063.0	90.70	180.90	10,843.3	-3,397.1	942.2	3,514.8	1.94	1.79	0.74
14,158.0	90.60	181.60	10,842.2	-3,492.1	940.1	3,607.6	0.74	-0.11	0.74
14,252.0	91.70	182.20	10,840.3	-3,586.0	937.0	3,699.2	1.33	1.17	0.64
14,346.0	89.30	181.90	10,839.5	-3,680.0	933.7	3,790.7	2.57	-2.55	-0.32
14,440.0	89.40	182.20	10,840.5	-3,773.9	930.3	3,882.3	0.34	0.11	0.32
14,534.0	90.00	181.70	10,841.0	-3,867.8	927.1	3,973.9	0.83	0.64	-0.53
14,628.0	90.40	182.00	10,840.7	-3,961.8	924.1	4,065.5	0.53	0.43	0.32
14,722.0	90.70	181.50	10,839.8	-4,055.7	921.2	4,157.1	0.62	0.32	-0.53
14,817.0	89.10	181.50	10,840.0	-4,150.7	918.7	4,249.9	1.68	-1.68	0.00
14,911.0	88.20	180.80	10,842.2	-4,244.7	916.8	4,341.7	1.21	-0.96	-0.74
15,006.0	87.80	179.70	10,845.5	-4,339.6	916.4	4,434.8	1.23	-0.42	-1.16
15,100.0	88.00	179.70	10,848.9	-4,433.5	916.9	4,527.1	0.21	0.21	0.00
15,194.0	89.70	180.40	10,850.8	-4,527.5	916.8	4,619.3	1.96	1.81	0.74
15,289.0	89.80	180.80	10,851.2	-4,622.5	915.8	4,712.3	0.43	0.11	0.42
15,383.0	90.20	180.60	10,851.2	-4,716.5	914.7	4,804.4	0.48	0.43	-0.21
15,424.0	88.70	179.00	10,851.6	-4,757.5	914.8	4,844.6	5.35	-3.66	-3.90
TD Well @ 15471' MD / 10852' TVD									
15,471.0	88.70	179.00	10,852.7	-4,804.5	915.6	4,890.9	0.00	0.00	0.00

Company:	WPX	Local Co-ordinate Reference:	Well RDX Fed Com 17-40H
Project:	Eddy County, NM (Nad83NME)	TVD Reference:	Well @ 3111.0usft (Orion - Phoenix)
Site:	Sec 17-T26S-R30E	MD Reference:	Well @ 3111.0usft (Orion - Phoenix)
Well:	RDX Fed Com 17-40H	North Reference:	Grid
Wellbore:	STO1	Survey Calculation Method:	Minimum Curvature
Design:	STO1	Database:	EDM5002

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
6,011.0	5,984.5	45.9	372.7	Tie in @ 6011' MD / 5984' TVD
15,471.0	10,852.7	-4,804.5	915.6	TD Well @ 15471' MD / 10852' TVD