

WPXENERGY

30-015-43586

NM OIL CONSERVATION
ARTESIA DISTRICT

OCT 28 2016

RECEIVED

WPX

Eddy County, NM (Nad83NME)
East Pecos Federal Com 22-14H
22-14H

Lateral

Design: Lateral

Standard Survey Report

02 July, 2016

Provide signature page for survey

QES
DIRECTIONAL DRILLING

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-160199	7/8/2016

Lease	Well Name	County & State
Sec22,T26S,R29E	East Pecos Federal Com 22	Eddy, NM

API No.	Survey Depth Range	Survey Type
30-015-43586	156 feet to 15840 feet MD	MWD

Sidetrack Information	Directional Supervisor/Surveyor
6/10/2015 - 7/03/2015	Jesse Herring

Certification Statement

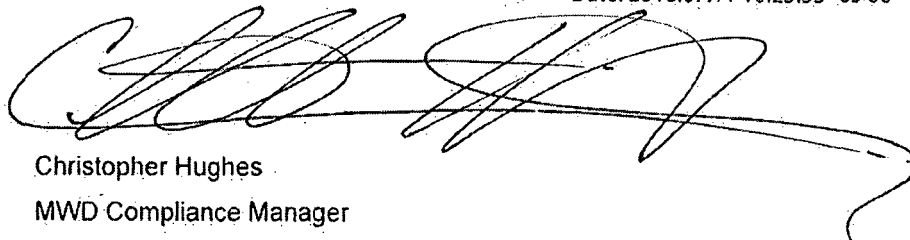
The data and calculations for this survey have been checked by me and conform to the standards and procedures set forth by Quintana Energy Services (QES). This report represents a true and correct directional survey of this well based on the original data obtained at the well site. Wellbore coordinates 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: 2016.07.11 10:23:55 -05'00'



Christopher Hughes

MWD Compliance Manager

Company:	WPX	Local Co-ordinate Reference:	Well 22-14H
Project:	Eddy County, NM (Nad83NME)	TVD Reference:	2882' GL + 25' RKB @ 2907.0usft (Orion Phoenix)
Site:	East Pecos Federal Com 22-14H	MD Reference:	2882' GL + 25' RKB @ 2907.0usft (Orion Phoenix)
Well:	22-14H	North Reference:	Grid
Wellbore:	Lateral	Survey Calculation Method:	Minimum Curvature
Design:	Lateral	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	East Pecos Federal Com 22-14H				
Site Position:		Northing:	371,571.40 usft	Latitude:	32° 1' 15.605 N
From:	Map	Easting:	654,793.40 usft	Longitude:	103° 58' 2.100 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.19 °

Well	22-14H					
Well Position	+N/-S	0.0 usft	Northing:	371,571.40 usft	Latitude:	32° 1' 15.605 N
	+E/-W	0.0 usft	Easting:	654,793.40 usft	Longitude:	103° 58' 2.100 W
Position Uncertainty	0.0 usft		Wellhead Elevation:	0.0 usft	Ground Level:	2,882.0 usft

Wellbore	Lateral				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	IGRF2015	6/15/2016	(°)	(°)	(nT)
			7.23	59.82	47,882

Design	Lateral				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.0	0.0	0.0	359.78	

Survey Program	Date: 7/2/2016			
From	To	Survey (Wellbore)	Tool Name	Description
(usft)	(usft)			
156.0	15,840.0	MWD Surveys (Lateral)	MWD	MWD - Standard

Survey									
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Vertical	Dogleg	Build	Turn
Depth	(°)	(°)	Depth	(usft)	(usft)	Section	Rate	Rate	Rate
(usft)			(usft)			(usft)	(°/100usft)	(°/100usft)	(°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
156.0	0.80	25.60	156.0	1.0	0.5	1.0	0.51	0.51	0.00
324.0	1.60	316.20	324.0	3.7	-0.6	3.7	0.90	0.48	-41.31
428.0	1.90	315.00	427.9	6.0	-2.9	6.0	0.29	0.29	-1.15
518.0	2.40	312.00	517.9	8.3	-5.3	8.3	0.57	0.56	-3.33
609.0	0.90	183.70	608.8	8.9	-6.8	8.9	3.34	-1.85	-140.99
701.0	1.70	162.80	700.8	6.9	-6.4	6.9	1.00	0.87	-22.72
793.0	2.00	156.10	792.8	4.1	-5.4	4.1	0.40	0.33	-7.28
885.0	0.20	217.60	884.7	2.5	-4.8	2.5	2.08	-1.96	66.85

Company: WPX
 Project: Eddy County, NM (Nad83NME)
 Site: East Pecos Federal Com 22-14H
 Well: 22-14H
 Wellbore: Lateral
 Design: Lateral

Local Co-ordinate Reference: Well 22-14H
 TVD Reference: 2882' GL + 25' RKB @ 2907.0usft (Orion Phoenix)
 MD Reference: 2882' GL + 25' RKB @ 2907.0usft (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)
977.0	0.10	245.60	976.7	2.3	-5.0	2.3	0.13	-0.11	30.43
1,067.0	0.20	307.80	1,066.7	2.4	-5.2	2.4	0.20	0.11	69.11
1,158.0	0.30	261.30	1,157.7	2.5	-5.6	2.6	0.17	0.11	-29.12
1,250.0	0.90	229.20	1,249.7	2.1	-6.3	2.1	0.82	0.65	-56.63
1,341.0	0.70	227.50	1,340.7	1.3	-7.3	1.3	0.22	-0.22	-1.87
1,432.0	0.80	250.80	1,431.7	0.7	-8.3	0.7	0.35	0.11	25.60
1,524.0	0.90	230.40	1,523.7	0.0	-9.5	0.0	0.34	0.11	-22.17
1,614.0	0.90	240.50	1,613.7	-0.8	-10.6	-0.7	0.18	0.00	11.22
1,709.0	1.20	232.00	1,708.7	-1.8	-12.1	-1.7	0.35	0.32	-8.95
1,803.0	1.10	231.90	1,802.7	-2.9	-13.5	-2.9	0.11	-0.11	-0.11
1,898.0	1.10	252.60	1,897.6	-3.8	-15.1	-3.7	0.42	0.00	21.79
1,993.0	1.30	240.60	1,992.6	-4.6	-16.9	-4.5	0.34	0.21	-12.63
2,088.0	1.00	231.90	2,087.6	-5.6	-18.5	-5.5	0.36	-0.32	-9.16
2,182.0	1.10	239.80	2,181.6	-6.6	-19.9	-6.5	0.19	0.11	8.40
2,278.0	0.50	202.90	2,277.6	-7.4	-20.9	-7.3	0.79	-0.63	-38.44
2,373.0	0.90	147.70	2,372.6	-8.4	-20.7	-8.4	0.78	0.42	-58.11
2,468.0	1.20	115.30	2,467.6	-9.5	-19.4	-9.4	0.69	0.32	-34.11
2,563.0	1.90	105.50	2,562.5	-10.3	-17.0	-10.3	0.79	0.74	-10.32
2,657.0	2.50	111.40	2,656.4	-11.5	-13.5	-11.4	0.68	0.64	6.28
2,752.0	1.40	104.80	2,751.4	-12.5	-10.5	-12.5	1.18	-1.16	-6.95
2,847.0	0.70	148.20	2,846.4	-13.3	-9.1	-13.3	1.07	-0.74	45.68
2,941.0	0.50	152.20	2,940.4	-14.2	-8.6	-14.2	0.22	-0.21	4.26
3,036.0	0.50	114.40	3,035.4	-14.7	-8.0	-14.7	0.34	0.00	-39.79
3,116.0	0.50	111.30	3,115.4	-15.0	-7.4	-15.0	0.03	0.00	-3.88
3,208.0	0.30	105.20	3,207.4	-15.2	-6.8	-15.2	0.22	-0.22	-6.63
3,303.0	2.40	139.00	3,302.3	-16.8	-5.2	-16.8	2.27	2.21	35.58
3,397.0	5.60	135.20	3,396.1	-21.5	-0.7	-21.5	3.41	3.40	-4.04
3,492.0	6.60	137.70	3,490.6	-28.8	6.3	-28.9	1.09	1.05	2.63
3,587.0	6.40	138.90	3,584.9	-36.9	13.4	-36.9	0.25	-0.21	1.26
3,682.0	6.40	141.00	3,679.3	-45.0	20.2	-45.1	0.25	0.00	2.21
3,776.0	5.90	139.80	3,772.8	-52.7	26.6	-52.8	0.55	-0.53	-1.28
3,871.0	5.70	139.30	3,867.3	-60.0	32.9	-60.2	0.22	-0.21	-0.53
3,966.0	5.90	138.10	3,961.8	-67.3	39.2	-67.4	0.25	0.21	-1.26
4,061.0	5.70	137.60	4,056.3	-74.4	45.6	-74.5	0.22	-0.21	-0.53
4,156.0	6.10	136.90	4,150.8	-81.5	52.3	-81.7	0.43	0.42	-0.74
4,251.0	6.20	136.60	4,245.3	-89.0	59.3	-89.2	0.11	0.11	-0.32
4,346.0	6.30	136.60	4,339.7	-96.5	66.4	-96.7	0.11	0.11	0.00
4,440.0	6.20	137.30	4,433.2	-103.9	73.3	-104.2	0.13	-0.11	0.74
4,536.0	6.10	138.80	4,528.6	-111.6	80.2	-111.9	0.21	-0.10	1.67
4,631.0	6.00	138.30	4,623.1	-119.1	86.8	-119.4	0.12	-0.11	-0.63
4,726.0	5.70	137.90	4,717.6	-126.3	93.3	-126.7	0.32	-0.32	-0.42
4,821.0	5.80	138.90	4,812.1	-133.4	99.6	-133.8	0.15	0.11	1.05

Company:	WPX	Local Co-ordinate Reference:	Well 22-14H
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Site:	East Pecos Federal Com 22-14H	MD Reference:	2882' GL + 25' RKB @ 2907.0usft (Orion Phoenix)
Well:	22-14H	North Reference:	Grid
Wellbore:	Lateral	Survey Calculation Method:	Minimum Curvature
Design:	Lateral	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)
4,916.0	6.00	139.50	4,906.6	-140.8	106.0	-141.2	0.22	0.21	0.63
5,011.0	6.20	138.90	5,001.1	-148.5	112.6	-148.9	0.22	0.21	-0.63
5,106.0	6.20	138.60	5,095.5	-156.2	119.4	-156.6	0.03	0.00	-0.32
5,201.0	6.10	139.80	5,190.0	-163.9	126.0	-164.4	0.17	-0.11	1.26
5,295.0	5.70	140.60	5,283.5	-171.3	132.2	-171.8	0.43	-0.43	0.85
5,391.0	5.50	124.70	5,379.0	-177.6	139.0	-178.1	1.62	-0.21	-16.56
5,486.0	5.70	120.80	5,473.6	-182.6	146.8	-183.2	0.45	0.21	-4.11
5,581.0	5.50	134.70	5,568.1	-188.2	154.1	-188.8	1.44	-0.21	14.63
5,676.0	5.20	140.70	5,662.7	-194.8	160.1	-195.4	0.67	-0.32	6.32
5,770.0	5.10	141.90	5,756.3	-201.4	165.3	-202.0	0.16	-0.11	1.28
5,865.0	5.60	137.20	5,850.9	-208.1	171.1	-208.7	0.70	0.53	-4.95
5,960.0	6.20	135.80	5,945.4	-215.2	177.8	-215.8	0.65	0.63	-1.47
6,055.0	6.00	137.50	6,039.9	-222.5	184.7	-223.2	0.28	-0.21	1.79
6,150.0	6.00	135.70	6,134.4	-229.7	191.6	-230.4	0.20	0.00	-1.89
6,245.0	6.20	137.50	6,228.8	-237.0	198.5	-237.8	0.29	0.21	1.89
6,340.0	5.50	139.00	6,323.3	-244.3	204.9	-245.0	0.75	-0.74	1.58
6,435.0	5.80	140.20	6,417.9	-251.4	211.0	-252.2	0.34	0.32	1.26
6,530.0	5.60	141.70	6,512.4	-258.7	217.0	-259.5	0.26	-0.21	1.58
6,625.0	6.10	137.10	6,606.9	-266.0	223.3	-266.9	0.72	0.53	-4.84
6,720.0	5.60	136.90	6,701.4	-273.1	229.9	-274.0	0.53	-0.53	-0.21
6,815.0	6.00	130.20	6,785.9	-279.7	236.8	-280.6	0.83	0.42	-7.05
6,910.0	5.10	127.50	6,890.5	-285.5	244.0	-286.4	0.99	-0.95	-2.84
7,004.0	4.40	113.50	6,984.2	-289.5	250.6	-290.4	1.44	-0.74	-14.89
7,098.0	4.80	95.40	7,077.9	-291.3	257.8	-292.3	1.59	0.43	-19.26
7,194.0	6.60	66.00	7,173.4	-291.3	267.3	-292.3	2.11	1.88	-9.79
7,289.0	6.60	96.20	7,267.7	-291.5	278.2	-292.6	1.23	0.00	10.74
7,384.0	5.80	103.90	7,362.2	-293.2	288.3	-294.3	1.21	-0.84	8.11
7,479.0	4.80	94.70	7,456.8	-294.7	296.9	-295.8	1.38	-1.05	-9.68
7,573.0	4.20	77.90	7,550.5	-294.3	304.2	-295.5	1.53	-0.64	-17.87
7,669.0	5.00	79.80	7,646.2	-292.8	311.7	-294.0	0.85	0.83	1.98
7,764.0	5.50	87.90	7,740.8	-291.9	320.4	-293.2	0.94	0.53	8.53
7,859.0	4.90	92.80	7,835.4	-292.0	329.0	-293.2	0.79	-0.63	5.16
7,955.0	5.00	66.70	7,931.0	-291.9	337.2	-293.2	0.56	0.10	-6.35
8,050.0	4.30	95.70	8,025.7	-292.0	344.9	-293.4	1.06	-0.74	9.47
8,145.0	4.90	110.20	8,120.4	-293.8	352.3	-295.1	1.37	0.63	15.26
8,240.0	5.70	112.10	8,215.0	-297.0	360.4	-298.4	0.86	0.84	2.00
8,334.0	4.40	111.90	8,308.7	-300.1	368.1	-301.5	1.38	-1.38	-0.21
8,430.0	5.80	110.70	8,404.3	-303.2	376.1	-304.6	1.46	1.46	-1.25
8,525.0	7.30	105.00	8,498.7	-306.4	386.4	-307.9	1.72	1.58	-6.00
8,620.0	6.40	105.10	8,593.0	-309.4	397.3	-310.9	0.95	-0.95	0.11
8,715.0	6.40	98.00	8,687.4	-311.5	407.7	-313.0	0.83	0.00	-7.47
8,810.0	6.10	88.80	8,781.8	-312.1	418.0	-313.7	1.10	-0.32	-9.68

Company: WPX
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 Site: East Pecos Federal Com 22-14H
 Well: 22-14H
 Wellbore: Lateral
 Design: Lateral

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 Database: EDM5002

Survey

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8,906.0	7.10	88.40	8,877.2	-311.8	429.0	-313.5	1.04	1.04	-0.42
9,000.0	5.30	88.20	8,970.6	-311.5	439.2	-313.2	1.92	-1.91	-0.21
9,095.0	6.20	94.10	9,065.2	-311.8	448.7	-313.5	1.13	-0.95	6.21
9,191.0	6.60	93.50	9,160.6	-312.5	459.3	-314.2	0.42	-0.42	-0.63
9,286.0	4.80	93.70	9,255.1	-313.1	468.8	-314.9	1.89	-1.89	0.21
9,380.0	5.80	87.10	9,348.7	-313.1	477.4	-314.9	1.24	1.06	-7.02
9,475.0	5.50	90.00	9,443.2	-312.8	486.8	-314.7	0.44	-0.32	3.05
9,571.0	4.70	91.10	9,538.8	-312.9	495.3	-314.8	0.84	-0.83	1.15
9,665.0	4.40	96.30	9,632.5	-313.4	502.7	-315.3	0.54	-0.32	5.53
9,760.0	4.30	98.30	9,727.3	-314.3	509.9	-316.2	0.19	-0.11	2.11
9,855.0	4.20	102.10	9,822.0	-315.5	516.8	-317.5	0.31	-0.11	4.00
9,950.0	3.80	112.80	9,916.8	-317.5	523.1	-319.5	0.89	-0.42	11.26
10,045.0	2.50	86.80	10,011.6	-318.6	528.1	-320.6	2.00	-1.37	-27.37
10,140.0	2.00	82.30	10,106.6	-318.3	531.8	-320.3	0.56	-0.53	-4.74
10,235.0	1.30	83.50	10,201.5	-317.9	534.5	-320.0	0.74	-0.74	1.26
10,329.0	0.70	93.60	10,295.5	-317.8	536.1	-319.9	0.66	-0.64	10.74
10,342.0	0.30	80.90	10,308.5	-317.8	536.3	-319.9	3.17	-3.08	-97.69
10,432.0	1.40	0.40	10,398.5	-316.7	536.5	-318.7	1.54	1.22	-89.44
10,463.0	4.10	358.20	10,429.5	-315.2	536.5	-317.3	8.71	-8.71	-7.10
10,495.0	6.80	0.30	10,461.3	-312.2	536.4	-314.2	8.46	8.44	6.56
10,527.0	9.60	2.50	10,493.0	-307.6	536.6	-309.7	8.80	8.75	6.88
10,559.0	12.40	4.70	10,524.4	-301.5	537.0	-303.6	8.85	8.75	6.88
10,591.0	14.50	8.70	10,555.5	-294.1	537.8	-296.2	7.17	6.56	12.50
10,622.0	16.50	10.70	10,585.4	-286.0	539.3	-288.0	6.68	6.45	6.45
10,683.0	21.20	12.80	10,643.1	-266.7	543.3	-268.8	7.78	-7.70	3.44
10,715.0	25.20	12.30	10,672.5	-254.4	546.0	-256.5	12.52	12.50	-1.56
10,746.0	29.50	11.80	10,700.0	-240.5	549.0	-242.6	13.89	13.87	-1.61
10,778.0	34.00	11.60	10,727.2	-224.0	552.4	-226.1	14.07	14.06	-0.63
10,810.0	37.80	11.40	10,753.2	-205.6	556.2	-207.7	11.88	11.88	-0.63
10,841.0	42.70	12.50	10,776.8	-186.0	560.3	-188.1	15.97	15.81	3.55
10,873.0	48.20	12.00	10,799.2	-163.7	565.1	-165.9	17.22	17.19	-1.56
10,904.0	52.10	11.10	10,819.1	-140.4	569.9	-142.6	12.78	12.58	-2.90
10,949.0	58.30	6.40	10,844.8	-103.9	575.5	-106.1	16.22	13.78	-10.44
10,999.0	66.60	2.70	10,867.9	-59.8	578.9	-62.0	17.85	16.60	-7.40
11,068.0	72.30	2.10	10,892.1	4.8	581.6	2.5	8.30	8.26	-0.87
11,099.0	76.60	0.60	10,900.4	34.6	582.3	32.4	14.63	13.87	-4.84
11,130.0	81.20	359.20	10,906.4	65.0	582.3	62.8	15.49	14.84	-4.52
11,162.0	84.00	357.90	10,910.5	96.7	581.5	94.5	9.63	8.75	-4.06
11,193.0	84.50	357.90	10,913.6	127.6	580.3	125.3	1.61	1.61	0.00
11,224.0	84.30	357.90	10,916.6	158.4	579.2	156.2	0.65	-0.65	0.00
11,256.0	83.90	358.80	10,919.9	190.2	578.3	188.0	3.06	-1.25	2.81
11,288.0	83.70	359.00	10,923.4	222.0	577.7	219.8	0.88	-0.63	0.63

Company: WPX
Project: Eddy County, NM (Nad83NME)
Site: East Pecos Federal Com 22-14H
Well: 22-14H
Wellbore: Lateral
Design: Lateral

Local Co-ordinate Reference: Well 22-14H
TVD Reference: 2882' GL + 25' RKB @ 2907.0usft (Orion Phoenix)
MD Reference: 2882' GL + 25' RKB @ 2907.0usft (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)
11,319.0	83.30	359.60	10,926.9	252.8	577.3	250.6	2.32	-1.29	1.94
11,351.0	83.10	359.70	10,930.7	284.6	577.1	282.4	0.70	-0.63	0.31
11,413.0	82.60	0.50	10,936.4	346.1	577.2	343.9	1.51	-0.81	1.29
11,507.0	82.00	1.70	10,951.0	439.2	579.0	437.0	1.42	-0.64	1.28
11,601.0	80.70	3.20	10,965.1	532.1	583.0	529.8	2.10	-1.38	1.60
11,695.0	80.00	3.40	10,980.9	624.6	588.3	622.3	0.77	-0.74	0.21
11,790.0	82.00	1.10	10,995.7	718.3	592.0	716.1	3.19	2.11	-2.42
11,884.0	84.30	358.60	11,007.0	811.7	591.7	809.4	3.60	2.45	-2.66
11,978.0	83.00	357.90	11,017.4	905.0	588.9	902.8	1.57	-1.38	-0.74
12,072.0	85.90	357.90	11,026.4	998.5	585.4	996.3	3.09	3.09	0.00
12,166.0	90.20	358.40	11,029.6	1,092.4	582.4	1,090.2	4.61	4.57	0.53
12,261.0	90.50	358.70	11,029.1	1,187.4	580.0	1,185.1	0.45	0.32	0.32
12,355.0	90.50	358.70	11,028.2	1,281.3	577.9	1,279.1	0.00	0.00	0.00
12,449.0	90.90	358.80	11,027.1	1,375.3	575.8	1,373.1	0.44	0.43	0.11
12,544.0	90.80	358.90	11,025.7	1,470.3	573.9	1,468.1	0.15	-0.11	0.11
12,638.0	90.60	358.40	11,024.5	1,564.2	571.7	1,562.0	0.57	-0.21	-0.53
12,732.0	90.30	358.10	11,023.8	1,658.2	568.8	1,656.0	0.45	-0.32	-0.32
12,826.0	90.90	358.90	11,022.8	1,752.2	566.4	1,750.0	1.06	0.64	0.85
12,921.0	91.20	359.70	11,021.1	1,847.1	565.2	1,845.0	0.90	0.32	0.84
13,015.0	89.50	0.20	11,020.5	1,941.1	565.1	1,938.9	1.89	-1.81	0.53
13,109.0	89.30	0.30	11,021.5	2,035.1	565.5	2,032.9	0.24	-0.21	0.11
13,203.0	89.20	0.20	11,022.7	2,129.1	566.0	2,126.9	0.15	-0.11	-0.11
13,298.0	89.50	0.80	11,023.8	2,224.1	566.8	2,221.9	0.71	0.32	0.63
13,392.0	89.90	0.80	11,024.3	2,318.1	568.1	2,315.9	0.43	0.43	0.00
13,486.0	88.40	0.30	11,025.7	2,412.1	569.0	2,409.9	1.68	-1.60	-0.53
13,579.0	87.30	359.70	11,029.2	2,505.0	569.0	2,502.8	1.35	-1.18	-0.65
13,674.0	90.20	0.00	11,031.2	2,600.0	568.8	2,597.8	3.07	3.05	0.32
13,768.0	91.90	359.60	11,029.5	2,694.0	568.4	2,691.8	1.86	1.81	-0.43
13,863.0	90.90	359.90	11,027.2	2,788.9	568.0	2,786.7	1.10	-1.05	0.32
13,957.0	88.80	0.50	11,027.4	2,882.9	568.3	2,880.7	2.32	-2.23	0.64
14,050.0	88.90	0.70	11,029.3	2,976.9	569.3	2,973.7	0.24	0.11	0.22
14,144.0	89.70	0.30	11,030.5	3,069.9	570.1	3,067.7	0.95	0.85	-0.43
14,238.0	91.30	0.70	11,029.6	3,163.9	571.0	3,161.7	1.75	1.70	0.43
14,333.0	88.10	0.30	11,030.1	3,258.9	571.8	3,256.6	3.39	-3.37	-0.42
14,427.0	88.10	0.50	11,033.3	3,352.8	572.4	3,350.6	0.21	0.00	0.21
14,520.0	88.00	1.00	11,035.8	3,427.8	573.4	3,425.5	0.68	-0.13	0.67
14,597.0	89.10	1.00	11,038.2	3,522.7	575.1	3,520.5	1.16	1.16	0.00
14,690.0	89.30	1.20	11,039.5	3,615.7	576.9	3,613.4	0.30	0.22	0.22
14,784.0	90.50	2.20	11,039.7	3,709.6	579.6	3,707.4	1.66	1.28	1.06
14,878.0	89.50	1.20	11,039.7	3,803.6	582.4	3,801.3	1.50	-1.06	-1.06
14,973.0	88.80	0.10	11,041.1	3,898.6	583.5	3,896.3	1.37	-0.74	-1.16
15,067.0	89.90	0.20	11,042.1	3,992.6	583.8	3,990.3	1.18	1.17	0.11

Company: WPX
 Project: Eddy County, NM (Nad83NME)
 Site: East Pecos Federal Com 22-14H
 Well: 22-14H
 Wellbore: Lateral
 Design: Lateral

Local Co-ordinate Reference: Well 22-14H
 TVD Reference: 2882' GL + 25' RKB @ 2907.0usft (Orion Phoenix)
 MD Reference: 2882' GL + 25' RKB @ 2907.0usft (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)
15,162.0	90.10	359.80	11,042.1	4,087.6	583.8	4,085.3	0.47	0.21	-0.42
15,256.0	90.30	0.00	11,041.8	4,181.6	583.6	4,179.3	0.30	0.21	0.21
15,349.0	90.60	0.40	11,041.1	4,274.6	583.9	4,272.3	0.54	0.32	0.43
15,444.0	89.90	0.30	11,040.7	4,369.6	584.5	4,367.3	0.74	-0.74	-0.11
15,538.0	90.70	0.70	11,040.2	4,463.6	585.3	4,461.3	0.95	0.85	0.43
15,633.0	91.00	1.40	11,038.8	4,558.5	587.1	4,556.2	0.80	0.32	0.74
15,727.0	91.00	2.20	11,037.1	4,652.5	590.0	4,650.2	0.85	0.00	0.85
15,785.0	91.20	2.70	11,036.0	4,710.4	592.5	4,708.1	0.93	0.34	0.86
15,840.0	91.20	2.70	11,034.9	4,765.3	595.1	4,763.0	0.00	0.00	0.00

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N-S (usft)	+E-W (usft)	
158.0	158.0	1.0	0.5	First MWD Survey @ 156' MD / 156' TVD
15,840.0	11,034.9	4,765.3	595.1	TD @ 15840' MD / 11034' TVD