

WPXENERGY

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NM OIL CONSERVATION
ARTESIA DISTRICT

WPX Energy

Eddy County, New Mexico (NAD 83)

C State 16

2H

30-015-44135

Wellbore #1

Design: Surveys

Standard Survey Report

27 June, 2017

Please provide signature
page for directional survey

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T G M

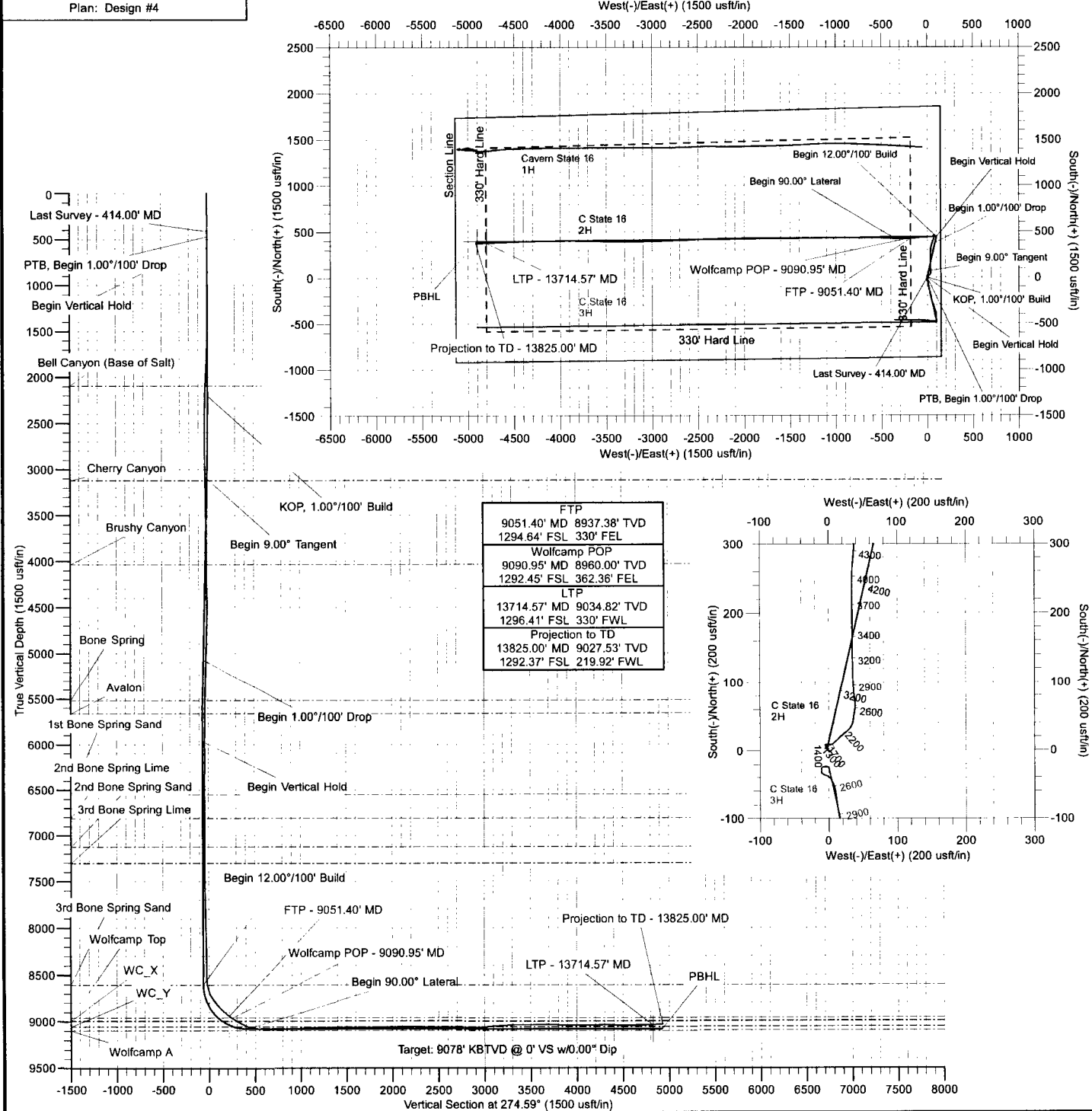
Azimuths to Grid North
 True North: -0.08°
 Magnetic North: 7.24°

Magnetic Field
 Strength: 47993.3snT
 Dip Angle: 60.01°
 Date: 5/25/2017
 Model: BGGM2017

US State Plane 1983
 New Mexico Eastern Zone

Created by: DLD
 Date: 17:54, June 27 2017
 Plan: Design #4

ANNOTATIONS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation	
414.00	0.40	339.30	413.98	2.57	-2.69	2.89	0.00	Last Survey - 414.00' MD	
470.00	0.40	339.30	469.98	2.93	-2.83	3.06	0.39	PTB, Begin 1.00°/100' Drop	
510.00	0.00	0.00	509.98	3.06	-2.88	3.11	0.53	Begin Vertical Hold	
2200.00	0.00	0.00	2199.98	3.06	-2.88	3.11	0.53	KOP, 1.00°/100' Build	
3100.14	9.00	13.02	3096.42	71.81	13.01	-7.22	71.09	Begin 9.00° Tangent	
5096.87	9.00	13.02	5068.56	376.19	83.38	-52.98	383.50	Begin 1.00°/100' Drop	
5997.01	0.00	0.00	5965.00	444.94	99.27	-63.31	454.06	Begin Vertical Hold	
8632.55	0.00	0.00	8600.54	444.94	99.27	-63.31	454.06	Begin 12.00°/100' Build	
9382.55	90.00	269.42	9078.00	440.10	-378.17	412.21	931.53	Begin 90.00° Lateral	
13910.41	90.00	269.42	9078.00	394.20	-4905.80	4921.61	5459.39	PBHL	



The customer should only rely on this document after independently verifying all paths, targets, coordinates, lease and hard lines represented. Any decisions made or wells drilled utilizing this or any other information supplied by MS Energy are at the sole risk and responsibility of the customer. MS Energy is not responsible for the accuracy of this schematic or the information contained herein.

Company:	WPX Energy	Local Co-ordinate Reference:	Well 2H
Project:	Eddy County, New Mexico (NAD 83)	TVD Reference:	WELL @ 3165.00usft (H&P 509)
Site:	C State 16	MD Reference:	WELL @ 3165.00usft (H&P 509)
Well:	2H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM Conroe

Project	Eddy County, New Mexico (NAD 83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Well	2H				
Well Position	+N/-S	0.00 usft	Northing:	472,924.30 usft	Latitude: 32° 18' 0.207 N
	+E/-W	0.00 usft	Easting:	586,567.50 usft	Longitude: 104° 11' 13.005 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level: 3,135.00 usft

Wellbore	Wellbore #1
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2017	5/25/2017	7.32	60.01	47,993

Design	Surveys
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Audit Notes:	
Version:	1.0
Phase:	ACTUAL
Tie On Depth:	0.00

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	316.04

Survey Program		Date	8/27/2017
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
145.00	13,825.00	MS MWD (Wellbore #1)	MWD
			Description
			OWSG MWD - Standard

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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145.00	1.10	303.80	144.99	0.77	-1.16	1.36	0.76	0.76	0.00
236.00	0.40	278.60	235.98	1.31	-2.20	2.47	0.83	-0.77	-27.69
327.00	0.60	355.50	326.98	1.83	-2.55	3.09	0.70	0.22	84.51
414.00	0.40	339.30	413.98	2.57	-2.69	3.72	0.28	-0.23	-18.62
519.00	0.80	335.80	518.97	3.58	-3.12	4.74	0.38	0.38	-3.33
610.00	0.50	355.40	609.97	4.56	-3.41	5.65	0.41	-0.33	21.54
702.00	0.50	316.10	701.96	5.24	-3.72	6.36	0.37	0.00	-42.72
793.00	0.50	1.10	792.96	5.93	-3.99	7.04	0.42	0.00	49.45
885.00	0.30	332.20	884.96	6.54	-4.10	7.55	0.30	-0.22	-31.41
976.00	0.40	316.40	975.95	6.98	-4.43	8.10	0.15	0.11	-17.36
1,068.00	0.40	335.10	1,067.95	7.51	-4.78	8.72	0.14	0.00	20.33
1,159.00	0.50	326.40	1,158.95	8.13	-5.14	9.41	0.13	0.11	-9.56
1,250.00	0.40	15.10	1,249.95	8.76	-5.27	9.97	0.42	-0.11	53.52
1,342.00	0.70	64.20	1,341.94	9.32	-4.68	9.96	0.58	0.33	53.37

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Site:	C State 16	MD Reference:	WELL @ 3165.00usft (H&P 509)
Well:	2H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM Conroe

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)
1,436.00	1.50	94.70	1,435.93	9.47	-2.94	8.86	1.03	0.85	32.45
1,531.00	1.40	96.70	1,530.90	9.23	-0.55	7.02	0.12	-0.11	2.11
1,625.00	1.90	91.70	1,624.86	9.05	2.15	5.02	0.55	0.53	-5.32
1,719.00	3.40	49.30	1,718.76	10.82	5.82	3.75	2.52	1.60	-45.11
1,814.00	4.60	44.80	1,813.53	15.36	10.64	3.67	1.30	1.26	-4.74
1,908.00	4.20	52.20	1,907.25	20.15	16.02	3.38	0.74	-0.43	7.87
2,002.00	3.60	50.00	2,001.03	24.15	21.00	2.81	0.66	-0.64	-2.34
2,054.00	3.10	48.00	2,052.94	26.14	23.29	2.65	0.99	-0.96	-3.85
2,195.00	2.70	49.70	2,193.76	30.84	28.66	2.31	0.29	-0.28	1.21
2,289.00	3.60	33.60	2,287.62	34.73	31.98	2.80	1.33	0.96	-17.13
2,384.00	5.10	13.20	2,382.35	41.33	34.60	5.74	2.25	1.58	-21.47
2,478.00	5.80	7.70	2,475.93	50.10	36.19	10.95	0.93	0.74	-5.85
2,573.00	6.10	9.60	2,570.42	59.84	37.67	16.92	0.38	0.32	2.00
2,669.00	5.50	356.30	2,665.93	69.46	38.22	23.47	1.53	-0.63	-13.85
2,761.00	6.10	351.80	2,757.46	78.69	37.24	30.80	0.82	0.65	-4.89
2,856.00	7.50	355.60	2,851.79	89.87	36.05	39.67	1.55	1.47	4.00
2,950.00	8.20	359.20	2,944.91	102.69	35.48	49.29	0.91	0.74	3.83
3,045.00	7.30	358.50	3,039.04	115.50	35.23	58.69	0.95	-0.95	-0.74
3,139.00	6.90	358.20	3,132.32	127.11	34.90	67.28	0.43	-0.43	-0.32
3,234.00	7.50	357.50	3,226.57	139.01	34.45	76.16	0.64	0.63	-0.74
3,328.00	9.70	1.50	3,319.50	153.06	34.39	86.31	2.42	2.34	4.26
3,423.00	9.30	359.80	3,413.20	168.74	34.57	97.47	0.51	-0.42	-1.79
3,517.00	8.90	0.40	3,506.02	183.60	34.59	108.15	0.44	-0.43	0.64
3,611.00	8.30	358.70	3,598.96	197.66	34.49	118.34	0.69	-0.64	-1.81
3,706.00	8.00	359.10	3,693.00	211.12	34.23	128.22	0.32	-0.32	0.42
3,800.00	8.00	359.20	3,786.09	224.20	34.04	137.77	0.01	0.00	0.11
3,895.00	7.80	359.90	3,880.19	237.26	33.93	147.24	0.23	-0.21	0.74
3,989.00	7.40	1.10	3,973.36	249.69	34.04	156.11	0.46	-0.43	1.28
4,084.00	6.50	1.10	4,067.66	261.18	34.26	164.23	0.95	-0.95	0.00
4,178.00	6.90	7.90	4,161.02	272.10	35.14	171.48	0.94	0.43	7.23
4,273.00	7.60	4.20	4,255.26	284.01	36.38	179.19	0.89	0.74	-3.89
4,367.00	7.50	2.80	4,348.45	296.34	37.14	187.54	0.22	-0.11	-1.49
4,462.00	6.50	2.00	4,442.74	307.91	37.63	195.53	1.06	-1.05	-0.84
4,556.00	7.30	6.00	4,536.06	319.16	38.44	203.07	0.99	0.85	4.26
4,650.00	7.60	9.70	4,629.26	331.23	40.11	210.60	0.60	0.32	3.94
4,745.00	8.00	16.90	4,723.39	343.75	43.09	217.54	1.11	0.42	7.58
4,839.00	7.90	16.40	4,816.48	356.20	46.82	223.92	0.13	-0.11	-0.53
4,934.00	7.00	15.30	4,910.68	368.05	50.19	230.11	0.96	-0.95	-1.16
5,028.00	5.90	13.70	5,004.08	378.27	52.84	235.62	1.19	-1.17	-1.70
5,123.00	5.00	11.80	5,098.65	387.07	54.84	240.56	0.97	-0.95	-2.00
5,217.00	5.80	24.10	5,192.24	395.41	57.62	244.64	1.49	0.85	13.09
5,312.00	5.50	26.80	5,286.78	403.86	61.63	247.93	0.42	-0.32	2.84
5,406.00	4.70	25.20	5,380.40	411.36	65.31	250.79	0.86	-0.85	-1.70
5,500.00	4.10	24.10	5,474.13	417.92	68.32	253.42	0.64	-0.64	-1.17

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Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Buidl Rate (°/100usft)	Turn Rate (°/100usft)	
5,595.00	3.50	19.00	5,568.92	423.76	70.65	256.00	0.72	-0.63	-5.37	
5,689.00	3.10	14.60	5,662.76	428.93	72.22	258.63	0.50	-0.43	-4.68	
5,784.00	1.80	18.30	5,757.67	432.83	73.34	260.67	1.38	-1.37	3.89	
5,878.00	1.40	1.80	5,851.64	435.38	73.84	262.16	0.64	-0.43	-17.55	
5,973.00	1.30	2.60	5,946.61	437.62	73.92	263.71	0.11	-0.11	0.84	
6,067.00	1.10	12.80	6,040.59	439.56	74.17	264.93	0.31	-0.21	10.85	
6,162.00	0.80	20.80	6,135.58	441.07	74.61	265.72	0.34	-0.32	8.42	
6,256.00	0.80	54.30	6,229.57	442.07	75.38	265.90	0.49	0.00	35.64	
6,351.00	0.70	29.90	6,324.56	442.96	76.20	265.97	0.35	-0.11	-25.68	
6,445.00	0.70	61.80	6,418.55	443.73	77.00	265.97	0.41	0.00	33.94	
6,540.00	0.80	44.20	6,513.54	444.48	77.97	265.84	0.26	0.11	-18.53	
6,634.00	0.80	19.90	6,607.54	445.57	78.65	266.15	0.36	0.00	-25.85	
6,729.00	0.90	339.80	6,702.53	446.89	78.62	267.12	0.62	0.11	-42.21	
6,823.00	1.10	325.40	6,796.51	448.33	77.85	268.69	0.34	0.21	-15.32	
6,918.00	1.10	12.90	6,891.50	449.96	77.54	270.09	0.93	0.00	50.00	
7,012.00	0.70	11.80	6,985.48	451.41	77.86	270.90	0.43	-0.43	-1.17	
7,106.00	1.10	2.60	7,079.47	452.87	78.01	271.85	0.45	0.43	-9.79	
7,201.00	1.40	17.30	7,174.45	454.89	78.40	273.03	0.46	0.32	15.47	
7,295.00	1.20	20.90	7,268.43	456.90	79.09	274.00	0.23	-0.21	3.83	
7,390.00	0.80	357.00	7,363.41	458.50	79.41	274.92	0.60	-0.42	-25.16	
7,484.00	0.80	326.50	7,457.40	459.70	79.02	276.07	0.45	0.00	-32.45	
7,579.00	0.80	291.70	7,552.39	460.50	78.03	277.32	0.50	0.00	-36.63	
7,673.00	0.90	277.90	7,646.38	460.84	76.69	278.50	0.24	0.11	-14.68	
7,768.00	1.00	266.60	7,741.37	460.89	75.13	279.63	0.22	0.11	-11.89	
7,862.00	0.70	237.80	7,835.36	460.54	73.82	280.28	0.55	-0.32	-30.64	
7,957.00	3.10	225.60	7,930.30	458.43	71.50	280.38	2.55	2.53	-12.84	
8,051.00	2.60	217.20	8,024.19	454.96	68.39	280.03	0.69	-0.53	-8.94	
8,145.00	0.80	221.50	8,118.14	452.77	66.67	279.65	1.92	-1.91	4.57	
8,240.00	0.90	209.90	8,213.13	451.62	65.86	279.39	0.21	0.11	-12.21	
8,334.00	1.40	186.60	8,307.11	449.84	65.36	278.45	0.72	0.53	-24.79	
8,429.00	1.70	182.70	8,402.08	447.28	65.16	276.75	0.33	0.32	-4.11	
8,523.00	1.90	185.40	8,496.03	444.34	64.94	274.78	0.23	0.21	2.87	
8,636.00	8.90	274.80	8,608.55	443.20	56.04	280.14	8.03	6.19	79.12	
8,731.00	25.30	267.50	8,699.05	442.93	28.24	299.24	17.38	17.26	-7.68	
8,825.00	38.00	264.80	8,778.91	439.42	-20.84	330.78	13.59	13.51	-2.87	
8,919.00	44.10	266.10	8,849.77	434.56	-82.35	369.98	6.55	6.49	1.38	
9,014.00	50.30	264.80	8,914.29	429.00	-151.80	414.18	6.60	6.53	-1.37	
9,051.40	53.44	265.52	8,937.38	426.52	-181.11	432.74	8.53	8.40	1.92	
FTP - 9051.40' MD										
9,090.95	56.77	266.22	8,960.00	424.19	-213.46	453.52	8.53	8.41	1.76	
Wolfcamp POP - 9090.95' MD										
9,108.00	58.20	266.50	8,969.17	423.27	-227.81	462.82	8.53	8.41	1.67	
9,203.00	60.40	271.90	9,017.69	422.18	-309.43	518.69	5.41	2.32	5.68	

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Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM Conroe

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)
9,297.00	70.10	272.90	9,057.00	425.78	-394.62	580.41	10.36	10.32	1.06
9,329.00	76.20	272.80	9,066.27	427.30	-425.19	602.73	19.06	19.06	-0.31
9,399.00	86.20	271.40	9,076.97	429.82	-494.23	652.47	14.42	14.29	-2.00
9,493.00	88.00	270.70	9,081.72	431.54	-588.09	718.86	2.05	1.91	-0.74
9,583.00	89.60	270.50	9,083.61	432.48	-678.07	781.99	1.79	1.78	-0.22
9,673.00	92.10	270.20	9,082.27	433.03	-768.05	844.84	2.80	2.78	-0.33
9,762.00	92.50	269.90	9,078.70	433.11	-856.97	906.62	0.56	0.45	-0.34
9,852.00	93.20	269.60	9,074.22	432.72	-946.86	968.74	0.85	0.78	-0.33
9,942.00	92.40	269.40	9,069.83	431.93	-1,036.75	1,030.57	0.92	-0.89	-0.22
10,032.00	93.50	269.70	9,065.20	431.23	-1,126.63	1,092.44	1.27	1.22	0.33
10,122.00	91.40	270.60	9,061.35	431.46	-1,216.54	1,155.02	2.54	-2.33	1.00
10,212.00	88.40	270.00	9,061.51	431.93	-1,306.53	1,217.83	3.40	-3.33	-0.67
10,301.00	88.70	270.00	9,063.76	431.93	-1,395.50	1,279.58	0.34	0.34	0.00
10,391.00	88.80	270.00	9,065.72	431.93	-1,485.48	1,342.04	0.11	0.11	0.00
10,480.00	91.30	270.40	9,065.64	432.24	-1,574.47	1,404.04	2.84	2.81	0.45
10,570.00	90.90	270.20	9,063.92	432.71	-1,664.45	1,466.83	0.50	-0.44	-0.22
10,660.00	90.90	269.90	9,062.50	432.79	-1,754.44	1,529.36	0.33	0.00	-0.33
10,750.00	91.10	269.80	9,060.93	432.56	-1,844.42	1,591.65	0.25	0.22	-0.11
10,839.00	91.90	269.90	9,058.60	432.32	-1,933.39	1,653.24	0.91	0.90	0.11
10,929.00	89.50	268.50	9,057.50	431.07	-2,023.37	1,714.79	3.09	-2.67	-1.56
11,018.00	92.60	269.00	9,055.87	429.13	-2,112.32	1,775.13	3.53	3.48	0.56
11,108.00	88.10	269.00	9,055.32	427.56	-2,202.28	1,836.45	5.00	-5.00	0.00
11,197.00	87.80	268.40	9,058.51	425.54	-2,291.20	1,896.72	0.75	-0.34	-0.67
11,287.00	88.80	268.40	9,061.18	423.03	-2,381.13	1,957.33	1.11	1.11	0.00
11,377.00	88.70	268.00	9,063.14	420.20	-2,471.06	2,017.72	0.46	-0.11	-0.44
11,466.00	91.80	267.50	9,062.75	416.71	-2,559.98	2,076.93	3.53	3.48	-0.56
11,556.00	90.10	267.00	9,061.26	412.39	-2,649.86	2,136.21	1.97	-1.89	-0.56
11,646.00	89.20	267.30	9,061.81	407.91	-2,739.75	2,195.38	1.05	-1.00	0.33
11,735.00	89.50	267.40	9,062.82	403.80	-2,828.65	2,254.12	0.36	0.34	0.11
11,825.00	94.00	267.80	9,060.07	400.03	-2,918.50	2,313.79	5.02	5.00	0.44
11,914.00	95.60	267.70	9,052.62	396.55	-3,007.12	2,372.79	1.80	1.80	-0.11
12,004.00	93.70	269.20	9,045.33	394.13	-3,096.78	2,433.28	2.69	-2.11	1.67
12,094.00	94.10	269.40	9,039.21	393.03	-3,186.57	2,494.82	0.50	0.44	0.22
12,184.00	90.60	270.70	9,035.52	393.11	-3,276.48	2,557.28	4.15	-3.89	1.44
12,273.00	89.10	270.50	9,035.75	394.04	-3,365.47	2,619.72	1.70	-1.69	-0.22
12,363.00	91.80	270.60	9,035.04	394.91	-3,455.45	2,682.81	3.00	3.00	0.11
12,453.00	92.40	271.90	9,031.74	396.87	-3,545.37	2,746.63	1.59	0.67	1.44
12,542.00	89.70	272.30	9,030.11	400.13	-3,634.29	2,810.70	3.07	-3.03	0.45
12,632.00	86.80	270.40	9,032.86	402.25	-3,724.20	2,874.64	3.85	-3.22	-2.11
12,722.00	87.50	270.50	9,037.34	402.95	-3,814.09	2,937.54	0.79	0.78	0.11
12,811.00	89.90	270.40	9,039.36	403.65	-3,903.06	2,999.80	2.70	2.70	-0.11
12,901.00	90.50	269.80	9,039.04	403.81	-3,993.06	3,062.39	0.94	0.67	-0.67
12,991.00	89.60	269.60	9,038.96	403.34	-4,083.05	3,124.52	1.02	-1.00	-0.22
13,080.00	92.90	269.60	9,037.02	402.72	-4,172.02	3,185.82	3.71	3.71	0.00

Company: WPX Energy
Project: Eddy County, New Mexico (NAD 83)
Site: C State 16
Well: 2H
Wellbore: Wellbore #1
Design: Surveys

Local Co-ordinate Reference: Well 2H
TVD Reference: WELL @ 3165.00usft (H&P 509)
MD Reference: WELL @ 3165.00usft (H&P 509)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM Conroe

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)	
13,170.00	90.90	268.70	9,034.04	401.38	-4,261.95	3,247.29	2.44	-2.22	-1.00	
13,260.00	86.30	267.80	9,036.24	398.64	-4,351.86	3,307.72	5.21	-5.11	-1.00	
13,349.00	87.50	268.10	9,041.05	395.46	-4,440.67	3,367.08	1.39	1.35	0.34	
13,439.00	92.20	268.90	9,041.28	393.10	-4,530.61	3,427.81	5.30	5.22	0.89	
13,529.00	91.90	268.20	9,038.06	390.83	-4,620.53	3,488.59	0.85	-0.33	-0.78	
13,618.00	89.00	266.50	9,037.37	386.71	-4,709.42	3,547.32	3.78	-3.26	-1.91	
13,708.00	93.70	267.40	9,035.25	381.93	-4,799.24	3,606.23	5.32	5.22	1.00	
13,714.57	93.72	267.38	9,034.82	381.63	-4,805.79	3,610.56	0.36	0.26	-0.26	
LTP - 13714.57' MD										
13,747.00	93.80	267.30	9,032.70	380.13	-4,838.11	3,631.92	0.36	0.26	-0.26	
13,825.00	93.80	267.30	9,027.53	376.46	-4,915.85	3,683.24	0.00	0.00	0.00	
Projection to TD - 13825.00' MD										

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
9,051.40	8,937.38	426.52	-181.11	FTP - 9051.40' MD
9,090.95	8,960.00	424.19	-213.46	Wolfcamp POP - 9090.95' MD
13,714.57	9,034.82	381.63	-4,805.79	LTP - 13714.57' MD
13,825.00	9,027.53	376.46	-4,915.85	Projection to TD - 13825.00' MD