

WPX Energy

Eddy County, New Mexico NAD 83

C 17 State Pad

C 17 State 1H

API:

Wellbore #1

Plan: Plan #1

Standard Planning Report

14 December, 2017



C 17 State 1H
Eddy County, New Mexico NAD 83:
Northing: 476120.00
Easting: 580948.40
Plan #1

Azimuths to Grid North
True North: -0.07°
Magnetic North: 7.30°
Magnetic Field
Strength: 48048.75nT
Dip Angle: 60.10°
Date: 12/14/2017
Model: HDGM

To convert Magnetic North to Grid, Add 7.30°
To convert True North to Grid, Subtract 0.07°



WELL DETAILS C 17 State 1H				
Ground Level: 3154.00				
+N/-S	+E/-W	Northing	Easting	Latitude
0.00	0.00	476120.00	580948.40	32.308862
				Longitude
				-104.205120

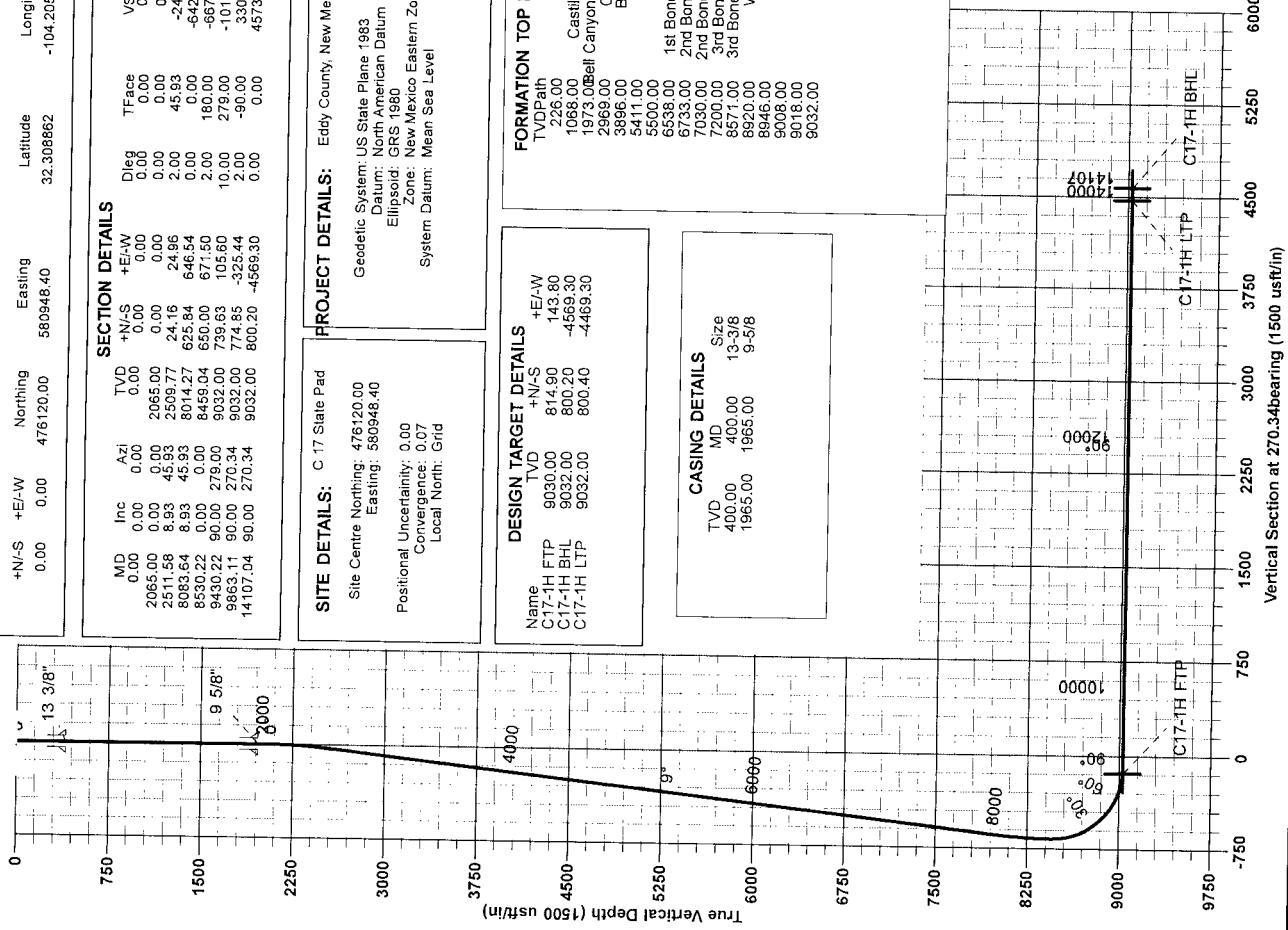
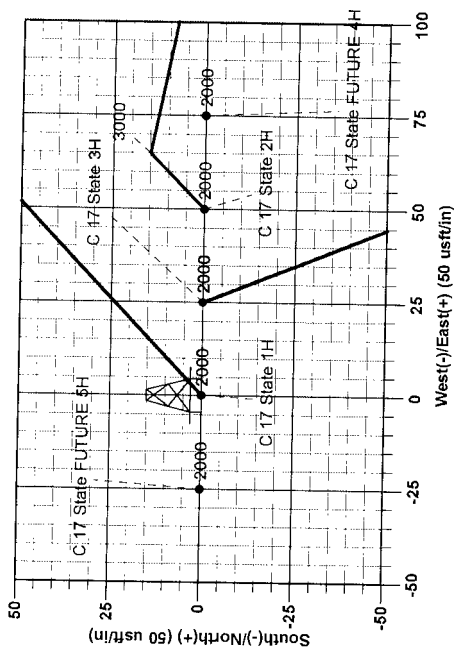
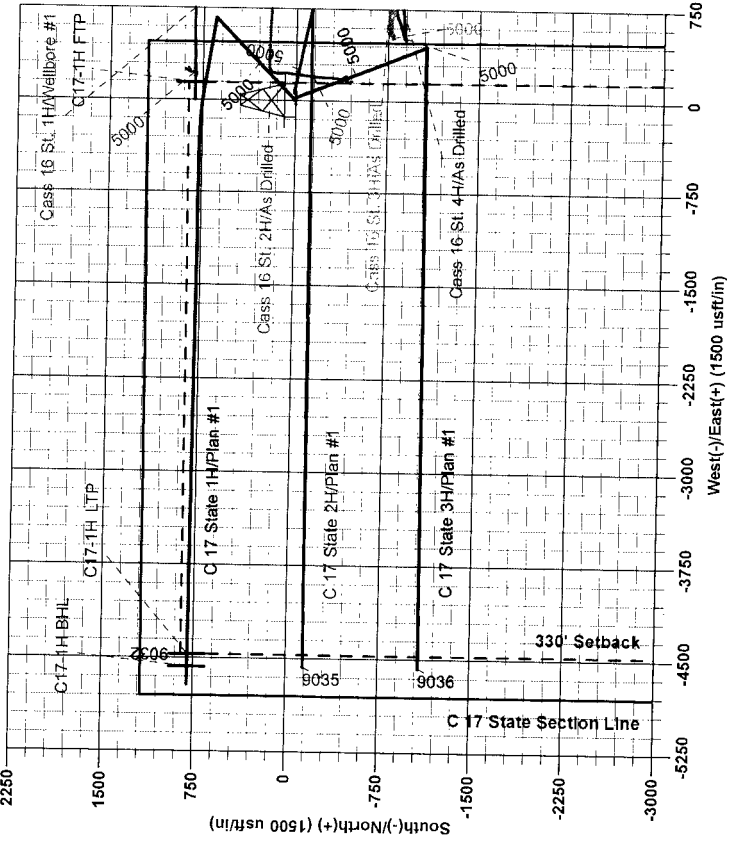
SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2065.00	0.00	0.00	2065.00	0.00	0.00	0.00	0.00	0.00	
2511.58	8.93	45.93	2509.77	24.16	24.96	0.00	45.93	-24.82	
8083.64	8.93	45.93	8014.27	625.84	646.54	0.00	0.00	-642.82	
8530.22	0.00	0.00	8459.04	650.00	671.50	2.00	180.00	-667.63	
9430.22	90.00	278.00	9032.00	739.63	105.60	10.00	279.00	-101.21	
9863.11	90.00	270.34	9032.00	774.85	-325.44	2.00	-90.00	330.04	
14107.04	90.00	270.34	9032.00	800.20	-4569.30	0.00	0.00	4573.97	

SITE DETAILS:		PROJECT DETAILS:	
C 17 State Pad		Eddy County, New Mexico NAD 83	
Site Centre Northing: 476120.00		Geodetic System: US State Plane 1983	
Easting: 580948.40		Datum: North American Datum 1983	
Positional Uncertainty: 0.00		Ellipsoid: GRS 1980	
Convergence: 0.07		Zone: New Mexico Eastern Zone	
Local North: Grid		System Datum: Mean Sea Level	

DESIGN TARGET DETAILS			
Name	TVD	+N/-S	+E/-W
C17-1H FTP	9030.00	814.90	143.80
C17-1H BHL	9032.00	800.20	-4569.30
C17-1H LTP	9032.00	800.40	-4469.30

CASING DETAILS		
TVD	MD	Size
400.00	400.00	13-3/8
1965.00	1965.00	9-5/8

FORMATION TOP DETAILS	
Formation	
TVDPath	226.00
Rustler	1088.00
Castile (Top of Salt)	1973.00
Cherry Canyon	2969.00
Brushy Canyon	3896.00
Bone Spring	5411.00
Avalon	5500.00
1st Bone Spring Sand	6538.00
2nd Bone Spring Lime	6733.00
2nd Bone Spring Sand	7030.00
3rd Bone Spring Sand	7200.00
3rd Bone Spring Lime	8571.00
Wolfcamp Top	8920.00
WC X	8946.00
WC Y	9008.00
Top Target	9018.00
Landing Point	9032.00



Scientific Drilling Int.

Planning Report

Database:	Midland District	Local Co-ordinate Reference:	Well C 17 State 1H
Company:	WPX Energy	TVD Reference:	GL 3154 + KB 33 = @ 3187.00usft (Nabors X31)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	GL 3154 + KB 33 = @ 3187.00usft (Nabors X31)
Site:	C 17 State Pad	North Reference:	Grid
Well:	C 17 State 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

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		

Site	C 17 State Pad				
Site Position:		Northing:	476,120.00 usft	Latitude:	32.308862
From:	Map	Easting:	580,948.40 usft	Longitude:	-104.205120
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.07 °

Well	C 17 State 1H					
Well Position	+N/-S	0.00 usft	Northing:	476,120.00 usft	Latitude:	32.308862
	+E/-W	0.00 usft	Easting:	580,948.40 usft	Longitude:	-104.205120
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	3,154.00 usft

Wellbore	Wellbore #1					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)	
	HDGM	12/14/2017	7.37	60.10	48,049	

Design	Plan #1				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.00	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (bearing)	
	0.00	0.00	0.00	270.34	

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,065.00	0.00	0.00	2,065.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,511.58	8.93	45.93	2,509.77	24.16	24.96	2.00	2.00	0.00	45.93	
8,083.64	8.93	45.93	8,014.27	625.84	646.54	0.00	0.00	0.00	0.00	
8,530.22	0.00	0.00	8,459.04	650.00	671.50	2.00	-2.00	0.00	180.00	
9,430.22	90.00	279.00	9,032.00	739.63	105.60	10.00	10.00	0.00	279.00	
9,863.11	90.00	270.34	9,032.00	774.85	-325.44	2.00	0.00	-2.00	-90.00	
14,107.04	90.00	270.34	9,032.00	800.20	-4,569.30	0.00	0.00	0.00	0.00	C17-1H BHL

Scientific Drilling Int.

Planning Report

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Company:	WPX Energy	TVD Reference:	GL 3154 + KB 33 = @ 3187.00usft (Nabors X31)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	GL 3154 + KB 33 = @ 3187.00usft (Nabors X31)
Site:	C 17 State Pad	North Reference:	Grid
Well:	C 17 State 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	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
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
226.00	0.00	0.00	226.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
13 3/8"									
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,068.00	0.00	0.00	1,068.00	0.00	0.00	0.00	0.00	0.00	0.00
Castile (Top of Salt)									
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,965.00	0.00	0.00	1,965.00	0.00	0.00	0.00	0.00	0.00	0.00
9 5/8"									
1,973.00	0.00	0.00	1,973.00	0.00	0.00	0.00	0.00	0.00	0.00
Bell Canyon (Base of Salt)									
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,065.00	0.00	0.00	2,065.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.70	45.93	2,100.00	0.15	0.15	-0.15	2.00	2.00	0.00
2,200.00	2.70	45.93	2,199.95	2.21	2.29	-2.27	2.00	2.00	0.00
2,300.00	4.70	45.93	2,299.74	6.70	6.92	-6.88	2.00	2.00	0.00
2,400.00	6.70	45.93	2,399.24	13.61	14.06	-13.98	2.00	2.00	0.00
2,500.00	8.70	45.93	2,498.33	22.93	23.68	-23.55	2.00	2.00	0.00
2,511.58	8.93	45.93	2,509.77	24.16	24.96	-24.82	2.00	2.00	0.00
2,600.00	8.93	45.93	2,597.12	33.71	34.82	-34.62	0.00	0.00	0.00
2,700.00	8.93	45.93	2,695.91	44.51	45.98	-45.71	0.00	0.00	0.00
2,800.00	8.93	45.93	2,794.70	55.30	57.13	-56.80	0.00	0.00	0.00
2,900.00	8.93	45.93	2,893.48	66.10	68.29	-67.90	0.00	0.00	0.00
2,976.44	8.93	45.93	2,969.00	74.36	76.82	-76.37	0.00	0.00	0.00
Cherry Canyon									
3,000.00	8.93	45.93	2,992.27	76.90	79.44	-78.99	0.00	0.00	0.00
3,100.00	8.93	45.93	3,091.06	87.70	90.60	-90.08	0.00	0.00	0.00
3,200.00	8.93	45.93	3,189.85	98.50	101.75	-101.17	0.00	0.00	0.00
3,300.00	8.93	45.93	3,288.63	109.30	112.91	-112.26	0.00	0.00	0.00
3,400.00	8.93	45.93	3,387.42	120.09	124.07	-123.35	0.00	0.00	0.00
3,500.00	8.93	45.93	3,486.21	130.89	135.22	-134.44	0.00	0.00	0.00
3,600.00	8.93	45.93	3,585.00	141.69	146.38	-145.53	0.00	0.00	0.00
3,700.00	8.93	45.93	3,683.78	152.49	157.53	-156.62	0.00	0.00	0.00

Scientific Drilling Int.

Planning Report

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Company:	WPX Energy	TVD Reference:	GL 3154 + KB 33 = @ 3187.00usft (Nabors X31)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	GL 3154 + KB 33 = @ 3187.00usft (Nabors X31)
Site:	C 17 State Pad	North Reference:	Grid
Well:	C 17 State 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
3,800.00	8.93	45.93	3,782.57	163.29	168.69	-167.71	0.00	0.00	0.00
3,900.00	8.93	45.93	3,881.36	174.08	179.84	-178.81	0.00	0.00	0.00
3,914.82	8.93	45.93	3,896.00	175.68	181.50	-180.45	0.00	0.00	0.00
Brushy Canyon									
4,000.00	8.93	45.93	3,980.15	184.88	191.00	-189.90	0.00	0.00	0.00
4,100.00	8.93	45.93	4,078.93	195.68	202.15	-200.99	0.00	0.00	0.00
4,200.00	8.93	45.93	4,177.72	206.48	213.31	-212.08	0.00	0.00	0.00
4,300.00	8.93	45.93	4,276.51	217.28	224.46	-223.17	0.00	0.00	0.00
4,400.00	8.93	45.93	4,375.30	228.07	235.62	-234.26	0.00	0.00	0.00
4,500.00	8.93	45.93	4,474.08	238.87	246.77	-245.35	0.00	0.00	0.00
4,600.00	8.93	45.93	4,572.87	249.67	257.93	-256.44	0.00	0.00	0.00
4,700.00	8.93	45.93	4,671.66	260.47	269.08	-267.53	0.00	0.00	0.00
4,800.00	8.93	45.93	4,770.45	271.27	280.24	-278.63	0.00	0.00	0.00
4,900.00	8.93	45.93	4,869.23	282.07	291.40	-289.72	0.00	0.00	0.00
5,000.00	8.93	45.93	4,968.02	292.86	302.55	-300.81	0.00	0.00	0.00
5,100.00	8.93	45.93	5,066.81	303.66	313.71	-311.90	0.00	0.00	0.00
5,200.00	8.93	45.93	5,165.59	314.46	324.86	-322.99	0.00	0.00	0.00
5,300.00	8.93	45.93	5,264.38	325.26	336.02	-334.08	0.00	0.00	0.00
5,400.00	8.93	45.93	5,363.17	336.06	347.17	-345.17	0.00	0.00	0.00
5,448.42	8.93	45.93	5,411.00	341.28	352.57	-350.54	0.00	0.00	0.00
Bone Spring									
5,500.00	8.93	45.93	5,461.96	346.85	358.33	-356.26	0.00	0.00	0.00
5,538.51	8.93	45.93	5,500.00	351.01	362.62	-360.53	0.00	0.00	0.00
Avalon									
5,600.00	8.93	45.93	5,560.74	357.65	369.48	-367.35	0.00	0.00	0.00
5,700.00	8.93	45.93	5,659.53	368.45	380.64	-378.44	0.00	0.00	0.00
5,800.00	8.93	45.93	5,758.32	379.25	391.79	-389.54	0.00	0.00	0.00
5,900.00	8.93	45.93	5,857.11	390.05	402.95	-400.63	0.00	0.00	0.00
6,000.00	8.93	45.93	5,955.89	400.85	414.10	-411.72	0.00	0.00	0.00
6,100.00	8.93	45.93	6,054.68	411.64	425.26	-422.81	0.00	0.00	0.00
6,200.00	8.93	45.93	6,153.47	422.44	436.41	-433.90	0.00	0.00	0.00
6,300.00	8.93	45.93	6,252.26	433.24	447.57	-444.99	0.00	0.00	0.00
6,400.00	8.93	45.93	6,351.04	444.04	458.73	-456.08	0.00	0.00	0.00
6,500.00	8.93	45.93	6,449.83	454.84	469.88	-467.17	0.00	0.00	0.00
6,589.25	8.93	45.93	6,538.00	464.47	479.84	-477.07	0.00	0.00	0.00
1st Bone Spring Sand									
6,600.00	8.93	45.93	6,548.62	465.63	481.04	-478.26	0.00	0.00	0.00
6,700.00	8.93	45.93	6,647.41	476.43	492.19	-489.36	0.00	0.00	0.00
6,786.64	8.93	45.93	6,733.00	485.79	501.86	-498.97	0.00	0.00	0.00
2nd Bone Spring Lime									
6,800.00	8.93	45.93	6,746.19	487.23	503.35	-500.45	0.00	0.00	0.00
6,900.00	8.93	45.93	6,844.98	498.03	514.50	-511.54	0.00	0.00	0.00
7,000.00	8.93	45.93	6,943.77	508.83	525.66	-522.63	0.00	0.00	0.00
7,087.29	8.93	45.93	7,030.00	518.25	535.39	-532.31	0.00	0.00	0.00
2nd Bone Spring Sand									
7,100.00	8.93	45.93	7,042.56	519.63	536.81	-533.72	0.00	0.00	0.00
7,200.00	8.93	45.93	7,141.34	530.42	547.97	-544.81	0.00	0.00	0.00
7,259.38	8.93	45.93	7,200.00	536.83	554.59	-551.40	0.00	0.00	0.00
3rd Bone Spring Lime									
7,300.00	8.93	45.93	7,240.13	541.22	559.12	-555.90	0.00	0.00	0.00
7,400.00	8.93	45.93	7,338.92	552.02	570.28	-566.99	0.00	0.00	0.00
7,500.00	8.93	45.93	7,437.71	562.82	581.43	-578.08	0.00	0.00	0.00

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Planning Report

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Company:	WPX Energy	TVD Reference:	GL 3154 + KB 33 = @ 3187.00usft (Nabors X31)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	GL 3154 + KB 33 = @ 3187.00usft (Nabors X31)
Site:	C 17 State Pad	North Reference:	Grid
Well:	C 17 State 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,600.00	8.93	45.93	7,536.49	573.62	592.59	-589.18	0.00	0.00	0.00
7,700.00	8.93	45.93	7,635.28	584.41	603.74	-600.27	0.00	0.00	0.00
7,800.00	8.93	45.93	7,734.07	595.21	614.90	-611.36	0.00	0.00	0.00
7,900.00	8.93	45.93	7,832.86	606.01	626.06	-622.45	0.00	0.00	0.00
8,000.00	8.93	45.93	7,931.64	616.81	637.21	-633.54	0.00	0.00	0.00
8,083.64	8.93	45.93	8,014.27	625.84	646.54	-642.82	0.00	0.00	0.00
8,100.00	8.60	45.93	8,030.44	627.57	648.33	-644.60	2.00	-2.00	0.00
8,200.00	6.60	45.93	8,129.55	636.78	657.84	-654.05	2.00	-2.00	0.00
8,300.00	4.60	45.93	8,229.07	643.57	664.86	-661.03	2.00	-2.00	0.00
8,400.00	2.60	45.93	8,328.87	647.94	669.37	-665.52	2.00	-2.00	0.00
8,500.00	0.60	45.93	8,428.82	649.89	671.39	-667.52	2.00	-2.00	0.00
8,530.22	0.00	0.00	8,459.04	650.00	671.50	-667.63	2.00	-2.00	0.00
8,550.00	1.98	279.00	8,478.82	650.05	671.16	-667.29	10.00	10.00	0.00
8,600.00	6.98	279.00	8,528.65	650.66	667.31	-663.44	10.00	10.00	0.00
8,642.90	11.27	279.00	8,571.00	651.73	660.59	-656.71	10.00	10.00	0.00
3rd Bone Spring Sand									
8,650.00	11.98	279.00	8,577.95	651.95	659.18	-655.30	10.00	10.00	0.00
8,700.00	16.98	279.00	8,626.35	653.91	646.84	-642.94	10.00	10.00	0.00
8,750.00	21.98	279.00	8,673.47	656.51	630.37	-626.47	10.00	10.00	0.00
8,800.00	26.98	279.00	8,718.96	659.75	609.92	-605.99	10.00	10.00	0.00
8,850.00	31.98	279.00	8,762.48	663.60	585.62	-581.68	10.00	10.00	0.00
8,900.00	36.98	279.00	8,803.68	668.03	557.68	-553.70	10.00	10.00	0.00
8,950.00	41.98	279.00	8,842.26	673.00	526.29	-522.29	10.00	10.00	0.00
9,000.00	46.98	279.00	8,877.93	678.48	491.70	-487.66	10.00	10.00	0.00
9,050.00	51.98	279.00	8,910.40	684.42	454.17	-450.10	10.00	10.00	0.00
9,065.86	53.56	279.00	8,920.00	686.40	441.70	-437.61	10.00	10.00	0.00
Wolfcamp Top									
9,100.00	56.98	279.00	8,939.44	690.79	413.99	-409.88	10.00	10.00	0.00
9,112.23	58.20	279.00	8,946.00	692.40	403.79	-399.67	10.00	10.00	0.00
WC_X									
9,150.00	61.98	279.00	8,964.83	697.52	371.46	-367.32	10.00	10.00	0.00
9,200.00	66.98	279.00	8,986.37	704.58	326.91	-322.72	10.00	10.00	0.00
9,250.00	71.98	279.00	9,003.89	711.90	280.67	-276.45	10.00	10.00	0.00
9,263.80	73.36	279.00	9,008.00	713.96	267.66	-263.42	10.00	10.00	0.00
WC_Y									
9,300.00	76.98	279.00	9,017.26	719.43	233.11	-228.83	10.00	10.00	0.00
9,303.31	77.31	279.00	9,018.00	719.94	229.92	-225.64	10.00	10.00	0.00
Top Target									
9,350.00	81.98	279.00	9,026.39	727.12	184.57	-180.25	10.00	10.00	0.00
9,400.00	86.98	279.00	9,031.20	734.91	135.43	-131.06	10.00	10.00	0.00
9,430.22	90.00	279.00	9,032.00	739.63	105.60	-101.21	10.00	10.00	0.00
Landing Point									
9,500.00	90.00	277.60	9,032.00	749.71	36.55	-32.10	2.00	0.00	-2.00
9,600.00	90.00	275.60	9,032.00	761.21	-62.78	67.30	2.00	0.00	-2.00
9,700.00	90.00	273.60	9,032.00	769.23	-162.46	167.02	2.00	0.00	-2.00
9,800.00	90.00	271.60	9,032.00	773.78	-262.35	266.94	2.00	0.00	-2.00
9,863.11	90.00	270.34	9,032.00	774.85	-325.44	330.04	2.00	0.00	-2.00
9,900.00	90.00	270.34	9,032.00	775.07	-362.34	366.93	0.00	0.00	0.00
10,000.00	90.00	270.34	9,032.00	775.67	-462.34	466.93	0.00	0.00	0.00
10,100.00	90.00	270.34	9,032.00	776.26	-562.33	566.93	0.00	0.00	0.00
10,200.00	90.00	270.34	9,032.00	776.86	-662.33	666.93	0.00	0.00	0.00

Scientific Drilling Int.

Planning Report

Database:	Midland District	Local Co-ordinate Reference:	Well C 17 State 1H
Company:	WPX Energy	TVD Reference:	GL 3154 + KB 33 = @ 3187.00usft (Nabors X31)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	GL 3154 + KB 33 = @ 3187.00usft (Nabors X31)
Site:	C 17 State Pad	North Reference:	Grid
Well:	C 17 State 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,300.00	90.00	270.34	9,032.00	777.46	-762.33	766.93	0.00	0.00	0.00
10,400.00	90.00	270.34	9,032.00	778.06	-862.33	866.93	0.00	0.00	0.00
10,500.00	90.00	270.34	9,032.00	778.65	-962.33	966.93	0.00	0.00	0.00
10,600.00	90.00	270.34	9,032.00	779.25	-1,062.32	1,066.93	0.00	0.00	0.00
10,700.00	90.00	270.34	9,032.00	779.85	-1,162.32	1,166.93	0.00	0.00	0.00
10,800.00	90.00	270.34	9,032.00	780.45	-1,262.32	1,266.93	0.00	0.00	0.00
10,900.00	90.00	270.34	9,032.00	781.04	-1,362.32	1,366.93	0.00	0.00	0.00
11,000.00	90.00	270.34	9,032.00	781.64	-1,462.32	1,466.93	0.00	0.00	0.00
11,100.00	90.00	270.34	9,032.00	782.24	-1,562.32	1,566.93	0.00	0.00	0.00
11,200.00	90.00	270.34	9,032.00	782.84	-1,662.31	1,666.93	0.00	0.00	0.00
11,300.00	90.00	270.34	9,032.00	783.43	-1,762.31	1,766.93	0.00	0.00	0.00
11,400.00	90.00	270.34	9,032.00	784.03	-1,862.31	1,866.93	0.00	0.00	0.00
11,500.00	90.00	270.34	9,032.00	784.63	-1,962.31	1,966.93	0.00	0.00	0.00
11,600.00	90.00	270.34	9,032.00	785.22	-2,062.31	2,066.93	0.00	0.00	0.00
11,700.00	90.00	270.34	9,032.00	785.82	-2,162.31	2,166.93	0.00	0.00	0.00
11,800.00	90.00	270.34	9,032.00	786.42	-2,262.30	2,266.93	0.00	0.00	0.00
11,900.00	90.00	270.34	9,032.00	787.02	-2,362.30	2,366.93	0.00	0.00	0.00
12,000.00	90.00	270.34	9,032.00	787.61	-2,462.30	2,466.93	0.00	0.00	0.00
12,100.00	90.00	270.34	9,032.00	788.21	-2,562.30	2,566.93	0.00	0.00	0.00
12,200.00	90.00	270.34	9,032.00	788.81	-2,662.30	2,666.93	0.00	0.00	0.00
12,300.00	90.00	270.34	9,032.00	789.41	-2,762.29	2,766.93	0.00	0.00	0.00
12,400.00	90.00	270.34	9,032.00	790.00	-2,862.29	2,866.93	0.00	0.00	0.00
12,500.00	90.00	270.34	9,032.00	790.60	-2,962.29	2,966.93	0.00	0.00	0.00
12,600.00	90.00	270.34	9,032.00	791.20	-3,062.29	3,066.93	0.00	0.00	0.00
12,700.00	90.00	270.34	9,032.00	791.80	-3,162.29	3,166.93	0.00	0.00	0.00
12,800.00	90.00	270.34	9,032.00	792.39	-3,262.29	3,266.93	0.00	0.00	0.00
12,900.00	90.00	270.34	9,032.00	792.99	-3,362.28	3,366.93	0.00	0.00	0.00
13,000.00	90.00	270.34	9,032.00	793.59	-3,462.28	3,466.93	0.00	0.00	0.00
13,100.00	90.00	270.34	9,032.00	794.18	-3,562.28	3,566.93	0.00	0.00	0.00
13,200.00	90.00	270.34	9,032.00	794.78	-3,662.28	3,666.93	0.00	0.00	0.00
13,300.00	90.00	270.34	9,032.00	795.38	-3,762.28	3,766.93	0.00	0.00	0.00
13,400.00	90.00	270.34	9,032.00	795.98	-3,862.28	3,866.93	0.00	0.00	0.00
13,500.00	90.00	270.34	9,032.00	796.57	-3,962.27	3,966.93	0.00	0.00	0.00
13,600.00	90.00	270.34	9,032.00	797.17	-4,062.27	4,066.93	0.00	0.00	0.00
13,700.00	90.00	270.34	9,032.00	797.77	-4,162.27	4,166.93	0.00	0.00	0.00
13,800.00	90.00	270.34	9,032.00	798.37	-4,262.27	4,266.93	0.00	0.00	0.00
13,900.00	90.00	270.34	9,032.00	798.96	-4,362.27	4,366.93	0.00	0.00	0.00
14,000.00	90.00	270.34	9,032.00	799.56	-4,462.26	4,466.93	0.00	0.00	0.00
14,107.04	90.00	270.34	9,032.00	800.20	-4,569.30	4,573.97	0.00	0.00	0.00

Scientific Drilling Int.

Planning Report

Database:	Midland District	Local Co-ordinate Reference:	Well C 17 State 1H
Company:	WPX Energy	TVD Reference:	GL 3154 + KB 33 = @ 3187.00usft (Nabors X31)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	GL 3154 + KB 33 = @ 3187.00usft (Nabors X31)
Site:	C 17 State Pad	North Reference:	Grid
Well:	C 17 State 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (bearing)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
C17-1H FTP - plan misses target center by 80.33usft at 9404.21usft MD (9031.41 TVD, 735.56 N, 131.27 E) - Point	0.00	0.00	9,030.00	814.90	143.80	476,934.90	581,092.20	32.311101	-104.204651
C17-1H LTP - plan misses target center by 7.09usft at 14000.00usft MD (9032.00 TVD, 799.56 N, -4462.26 E) - Point	0.00	0.00	9,032.00	800.40	-4,469.30	476,920.40	576,479.10	32.311076	-104.219584
C17-1H BHL - plan hits target center - Point	0.00	0.00	9,032.00	800.20	-4,569.30	476,920.20	576,379.10	32.311076	-104.219907

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
400.00	400.00	13 3/8"	13-3/8	17-1/2
1,965.00	1,965.00	9 5/8"	9-5/8	12-1/4

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (bearing)
226.00	226.00	Rustler			
1,068.00	1,068.00	Castile (Top of Salt)			
1,973.00	1,973.00	Bell Canyon (Base of Salt)			
2,976.44	2,969.00	Cherry Canyon			
3,914.82	3,896.00	Brushy Canyon			
5,448.42	5,411.00	Bone Spring			
5,538.51	5,500.00	Avalon			
6,589.25	6,538.00	1st Bone Spring Sand			
6,786.64	6,733.00	2nd Bone Spring Lime			
7,087.29	7,030.00	2nd Bone Spring Sand			
7,259.38	7,200.00	3rd Bone Spring Lime			
8,642.90	8,571.00	3rd Bone Spring Sand			
9,065.86	8,920.00	Wolfcamp Top			
9,112.23	8,946.00	WC_X			
9,263.80	9,008.00	WC_Y			
9,303.31	9,018.00	Top Target			
9,430.22	9,032.00	Landing Point			

WPX Energy

Eddy County, New Mexico NAD 83

C 17 State Pad

C 17 State 1H

API:

Wellbore #1

Plan #1

Anticollision Report

14 December, 2017



www.scientificdrilling.com



Scientific Drilling Int.

Anticollision Report

Company: WPX Energy
Project: Eddy County, New Mexico NAD 83
Reference Site: C 17 State Pad
Site Error: 0.00 usft
Reference Well: C 17 State 1H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Plan #1

Local Co-ordinate Reference: Well C 17 State 1H
TVD Reference: GL 3154 + KB 33 = @ 3187.00usft (Nabors X31)
MD Reference: GL 3154 + KB 33 = @ 3187.00usft (Nabors X31)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: Midland District
Offset TVD Reference: Offset Datum

Reference	Plan #1
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria
Interpolation Method:	MD Interval 100.00usft
Depth Range:	Unlimited
Results Limited by:	Maximum center-center distance of 9,999.98 usft
Warning Levels Evaluated at:	2.00 Sigma
Error Model:	ISCWSA
Scan Method:	Closest Approach 3D
Error Surface:	Elliptical Conic
Casing Method:	Not applied

Survey Tool Program		Date	12/14/2017		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	8,400.00	Plan #1 (Wellbore #1)	MWD+HDGM	OWSG MWD + HDGM	
8,400.00	14,107.04	Plan #1 (Wellbore #1)	MWD+HDGM	OWSG MWD + HDGM	

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
C 17 State Pad						
C 17 State 2H - Wellbore #1 - Plan #1	2,646.83	2,643.80	34.38	15.93	1.863	CC, ES, SF
C 17 State 3H - Wellbore #1 - Plan #1	2,200.88	2,200.24	24.43	12.30	2.014	CC, ES, SF
C 17 State FUTURE 4H - Wellbore #1 - Plan #1 FUTURE	2,303.95	2,300.00	68.30	52.30	4.270	CC, ES, SF
C 17 State FUTURE 5H - Wellbore #1 - Plan #1 FUTURE	2,000.00	2,000.00	25.00	11.14	1.803	CC
C 17 State FUTURE 5H - Wellbore #1 - Plan #1 FUTURE	2,100.00	2,100.00	25.15	10.58	1.726	ES, SF
Cass 16 St. 1H - Wellbore #1 - Wellbore #1	9,315.74	9,022.11	97.41	35.59	1.576	CC, ES, SF
Cass 16 St. 2H - Wellbore #1 - As Drilled	3,995.49	4,034.56	419.13	390.67	14.731	CC
Cass 16 St. 2H - Wellbore #1 - As Drilled	4,100.00	4,134.38	419.76	390.56	14.374	ES
Cass 16 St. 2H - Wellbore #1 - As Drilled	8,959.50	9,003.70	460.68	397.28	7.267	SF
Cass 16 St. 3H - Wellbore #1 - As Drilled	3,569.86	3,605.46	1,035.24	1,009.97	40.970	CC
Cass 16 St. 3H - Wellbore #1 - As Drilled	3,600.00	3,628.81	1,035.37	1,009.89	40.645	ES
Cass 16 St. 3H - Wellbore #1 - As Drilled	8,780.48	8,826.00	1,412.98	1,351.15	22.850	SF
Cass 16 St. 4H - Wellbore #1 - As Drilled	2,520.17	2,538.66	1,072.25	1,054.83	61.577	CC
Cass 16 St. 4H - Wellbore #1 - As Drilled	2,600.00	2,615.81	1,072.46	1,054.47	59.627	ES
Cass 16 St. 4H - Wellbore #1 - As Drilled	7,200.00	7,076.00	1,421.20	1,369.73	27.614	SF

C 17 State Pad - C 17 State 2H - Wellbore #1 - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HDGM, 8400-MWD+HDGM													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.00	0.00	0.00	0.00	0.00	0.00	89.89	0.10	50.00	50.00					
100.00	100.00	100.00	100.00	0.12	0.12	89.89	0.10	50.00	50.00	49.76	0.24	208.181		
200.00	200.00	200.00	200.00	0.48	0.48	89.89	0.10	50.00	50.00	49.04	0.96	52.240		
300.00	300.00	300.00	300.00	0.84	0.84	89.89	0.10	50.00	50.00	48.33	1.67	29.868		
400.00	400.00	400.00	400.00	1.20	1.20	89.89	0.10	50.00	50.00	47.61	2.39	20.912		
500.00	500.00	500.00	500.00	1.55	1.55	89.89	0.10	50.00	50.00	46.89	3.11	16.088		
600.00	600.00	600.00	600.00	1.91	1.91	89.89	0.10	50.00	50.00	46.18	3.82	13.072		
700.00	700.00	700.00	700.00	2.27	2.27	89.89	0.10	50.00	50.00	45.46	4.54	11.009		
800.00	800.00	800.00	800.00	2.63	2.63	89.89	0.10	50.00	50.00	44.74	5.26	9.508		
900.00	900.00	900.00	900.00	2.99	2.99	89.89	0.10	50.00	50.00	44.02	5.98	8.367		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Scientific Drilling Int.

Anticollision Report

Company: WPX Energy
Project: Eddy County, New Mexico NAD 83

Local Co-ordinate Reference: Well C 17 State 1H
TVD Reference: GL 3154 + KB 33 = @ 3187.00usft (Nabors X31)

Reference Site: C 17 State Pad

MD Reference: GL 3154 + KB 33 = @ 3187.00usft (Nabors X31)

Site Error: 0.00 usft

North Reference: Grid

Reference Well: C 17 State 1H

Survey Calculation Method: Minimum Curvature

Well Error: 0.00 usft

Output errors are at 2.00 sigma

Reference Wellbore Wellbore #1

Database: Midland District

Reference Design: Plan #1

Offset TVD Reference: Offset Datum

Offset Design: C 17 State Pad - C 17 State 2H - Wellbore #1 - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HDGM, 8400-MWD+HDGM													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
1,000.00	1,000.00	1,000.00	1,000.00	3.35	3.35	89.89	0.10	50.00	50.00	43.31	6.69	7.471		
1,100.00	1,100.00	1,100.00	1,100.00	3.70	3.70	89.89	0.10	50.00	50.00	42.59	7.41	6.748		
1,200.00	1,200.00	1,200.00	1,200.00	4.06	4.06	89.89	0.10	50.00	50.00	41.87	8.13	6.153		
1,300.00	1,300.00	1,300.00	1,300.00	4.42	4.42	89.89	0.10	50.00	50.00	41.16	8.84	5.654		
1,400.00	1,400.00	1,400.00	1,400.00	4.78	4.78	89.89	0.10	50.00	50.00	40.44	9.56	5.230		
1,500.00	1,500.00	1,500.00	1,500.00	5.14	5.14	89.89	0.10	50.00	50.00	39.72	10.28	4.865		
1,600.00	1,600.00	1,600.00	1,600.00	5.50	5.50	89.89	0.10	50.00	50.00	39.01	10.99	4.548		
1,700.00	1,700.00	1,700.00	1,700.00	5.86	5.86	89.89	0.10	50.00	50.00	38.29	11.71	4.269		
1,800.00	1,800.00	1,800.00	1,800.00	6.21	6.21	89.89	0.10	50.00	50.00	37.57	12.43	4.023		
1,900.00	1,900.00	1,900.00	1,900.00	6.57	6.57	89.89	0.10	50.00	50.00	36.85	13.15	3.804		
2,000.00	2,000.00	2,000.00	2,000.00	6.93	6.93	89.89	0.10	50.00	50.00	36.14	13.86	3.607		
2,100.00	2,100.00	2,099.78	2,099.78	7.29	7.29	44.04	0.17	50.07	49.92	35.35	14.58	3.425		
2,200.00	2,199.95	2,199.17	2,199.16	7.64	7.64	45.24	1.21	51.11	48.84	33.57	15.27	3.198		
2,300.00	2,299.74	2,298.56	2,298.49	8.00	7.99	48.05	3.47	53.37	46.57	30.61	15.96	2.918		
2,400.00	2,399.24	2,398.09	2,397.90	8.35	8.34	53.04	6.88	56.78	43.27	26.62	16.65	2.598		
2,500.00	2,498.33	2,497.84	2,497.53	8.71	8.70	62.87	10.50	60.40	38.77	21.41	17.36	2.233		
2,600.00	2,597.12	2,597.35	2,596.96	9.07	9.05	80.16	13.17	63.07	34.92	16.81	18.11	1.928		
2,646.83	2,643.39	2,643.80	2,643.40	9.24	9.22	90.15	14.00	63.90	34.38	15.93	18.46	1.863 CC, ES, SF		
2,700.00	2,695.91	2,696.41	2,696.00	9.44	9.41	102.14	14.62	64.52	35.17	16.34	18.84	1.867		
2,800.00	2,794.70	2,795.11	2,794.70	9.81	9.76	123.00	14.91	64.81	41.12	21.61	19.51	2.108		
2,900.00	2,893.48	2,893.89	2,893.48	10.18	10.11	137.61	14.91	64.81	51.32	31.14	20.17	2.544		
3,000.00	2,992.27	2,992.68	2,992.27	10.56	10.46	147.04	14.91	64.81	63.70	42.85	20.85	3.055		
3,100.00	3,091.06	3,091.47	3,091.06	10.94	10.82	153.30	14.91	64.81	77.23	55.69	21.54	3.586		
3,200.00	3,189.85	3,190.26	3,189.85	11.32	11.17	157.67	14.91	64.81	91.39	69.16	22.23	4.110		
3,300.00	3,288.63	3,289.04	3,288.63	11.71	11.53	160.86	14.91	64.81	105.94	83.00	22.94	4.619		
3,400.00	3,387.42	3,387.83	3,387.42	12.09	11.88	163.27	14.91	64.81	120.73	97.09	23.64	5.106		
3,500.00	3,486.21	3,486.62	3,486.21	12.48	12.23	165.16	14.91	64.81	135.69	111.34	24.35	5.572		
3,600.00	3,585.00	3,586.76	3,586.35	12.87	12.59	166.37	14.73	65.69	150.44	125.38	25.06	6.003		
3,700.00	3,683.78	3,687.82	3,687.31	13.26	12.93	166.25	13.87	69.91	164.02	138.25	25.77	6.364		
3,800.00	3,782.57	3,789.09	3,788.26	13.65	13.28	165.06	12.30	77.65	176.40	149.90	26.49	6.658		
3,900.00	3,881.36	3,890.30	3,888.82	14.05	13.63	162.99	10.03	88.86	187.74	160.51	27.22	6.896		
4,000.00	3,980.15	3,990.54	3,987.98	14.44	13.99	160.26	7.14	103.17	198.42	170.45	27.96	7.096		
4,100.00	4,078.93	4,089.51	4,085.80	14.84	14.34	157.66	4.14	117.96	209.34	180.64	28.70	7.293		
4,200.00	4,177.72	4,188.48	4,183.61	15.23	14.69	155.32	1.15	132.75	220.65	191.20	29.45	7.492		
4,300.00	4,276.51	4,287.46	4,281.43	15.63	15.05	153.22	-1.85	147.54	232.29	202.09	30.20	7.691		
4,400.00	4,375.30	4,386.43	4,379.24	16.03	15.41	151.31	-4.85	162.33	244.21	213.25	30.96	7.889		
4,500.00	4,474.08	4,485.40	4,477.06	16.43	15.78	149.58	-7.84	177.13	256.37	224.66	31.72	8.084		
4,600.00	4,572.87	4,584.37	4,574.87	16.83	16.14	148.01	-10.84	191.92	268.75	236.27	32.48	8.275		
4,700.00	4,671.66	4,683.35	4,672.69	17.23	16.51	146.58	-13.83	206.71	281.31	248.07	33.24	8.463		
4,800.00	4,770.45	4,782.32	4,770.51	17.63	16.88	145.27	-16.83	221.50	294.02	260.02	34.01	8.646		
4,900.00	4,869.23	4,881.29	4,868.32	18.03	17.25	144.07	-19.82	236.29	306.88	272.10	34.77	8.825		
5,000.00	4,968.02	4,980.26	4,966.14	18.44	17.63	142.96	-22.82	251.08	319.86	284.31	35.55	8.999		
5,100.00	5,066.81	5,079.24	5,063.95	18.84	18.01	141.94	-25.81	265.87	332.94	296.63	36.32	9.168		
5,200.00	5,165.59	5,178.21	5,161.77	19.24	18.38	141.00	-28.81	280.66	346.12	309.03	37.09	9.332		
5,300.00	5,264.38	5,277.18	5,259.58	19.65	18.76	140.13	-31.81	295.46	359.39	321.53	37.87	9.491		
5,400.00	5,363.17	5,376.15	5,357.40	20.05	19.14	139.32	-34.80	310.25	372.74	334.09	38.64	9.646		
5,500.00	5,461.96	5,475.13	5,455.21	20.46	19.52	138.56	-37.80	325.04	386.15	346.73	39.42	9.796		
5,600.00	5,560.74	5,574.10	5,553.03	20.86	19.91	137.86	-40.79	339.83	399.62	359.42	40.20	9.941		
5,700.00	5,659.53	5,673.07	5,650.84	21.27	20.29	137.20	-43.79	354.62	413.15	372.17	40.98	10.082		
5,800.00	5,758.32	5,772.04	5,748.66	21.67	20.68	136.59	-46.78	369.41	426.73	384.97	41.76	10.218		
5,900.00	5,857.11	5,871.02	5,846.47	22.08	21.07	136.01	-49.78	384.20	440.35	397.81	42.54	10.351		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Scientific Drilling Int.

Anticollision Report

Company: WPX Energy
Project: Eddy County, New Mexico NAD 83

Local Co-ordinate Reference: Well C 17 State 1H
TVD Reference: GL 3154 + KB 33 = @ 3187.00usft (Nabors X31)

Reference Site: C 17 State Pad

MD Reference: GL 3154 + KB 33 = @ 3187.00usft (Nabors X31)

Site Error: 0.00 usft

North Reference: Grid

Reference Well: C 17 State 1H

Survey Calculation Method: Minimum Curvature

Well Error: 0.00 usft

Output errors are at 2.00 sigma

Reference Wellbore Wellbore #1

Database: Midland District

Reference Design: Plan #1

Offset TVD Reference: Offset Datum

Offset Design C 17 State Pad - C 17 State 2H - Wellbore #1 - Plan #1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HDGM, 8400-MWD+HDGM												Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Distance		Warning							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
6,000.00	5,955.89	5,969.99	5,944.29	22.48	21.45	135.47	-52.77	399.00	454.02	410.69	43.33	10.479	
6,100.00	6,054.68	6,068.96	6,042.10	22.89	21.84	134.95	-55.77	413.79	467.72	423.61	44.11	10.603	
6,200.00	6,153.47	6,167.93	6,139.92	23.30	22.23	134.47	-58.77	428.58	481.46	436.57	44.90	10.724	
6,300.00	6,252.26	6,266.91	6,237.73	23.70	22.62	134.02	-61.76	443.37	495.23	449.55	45.68	10.841	
6,400.00	6,351.04	6,365.88	6,335.55	24.11	23.01	133.58	-64.76	458.16	509.03	462.56	46.47	10.955	
6,500.00	6,449.83	6,464.85	6,433.36	24.52	23.41	133.18	-67.75	472.95	522.86	475.60	47.25	11.065	
6,600.00	6,548.62	6,563.82	6,531.18	24.93	23.80	132.79	-70.75	487.74	536.71	488.66	48.04	11.171	
6,700.00	6,647.41	6,662.80	6,628.99	25.33	24.19	132.42	-73.74	502.53	550.58	501.75	48.83	11.275	
6,800.00	6,746.19	6,761.77	6,726.81	25.74	24.59	132.07	-76.74	517.33	564.47	514.85	49.62	11.376	
6,900.00	6,844.98	6,860.74	6,824.62	26.15	24.98	131.74	-79.73	532.12	578.39	527.98	50.41	11.474	
7,000.00	6,943.77	6,959.72	6,922.44	26.56	25.38	131.42	-82.73	546.91	592.32	541.12	51.20	11.569	
7,100.00	7,042.56	7,058.69	7,020.25	26.97	25.77	131.12	-85.72	561.70	606.27	554.28	51.99	11.661	
7,200.00	7,141.34	7,157.66	7,118.07	27.38	26.17	130.83	-88.72	576.49	620.24	567.45	52.78	11.751	
7,300.00	7,240.13	7,256.63	7,215.89	27.79	26.57	130.55	-91.72	591.28	634.22	580.64	53.57	11.838	
7,400.00	7,338.92	7,355.61	7,313.70	28.20	26.97	130.29	-94.71	606.07	648.21	593.84	54.37	11.923	
7,500.00	7,437.71	7,454.58	7,411.52	28.60	27.37	130.04	-97.71	620.87	662.22	607.06	55.16	12.006	
7,600.00	7,536.49	7,553.55	7,509.33	29.01	27.76	129.79	-100.70	635.66	676.24	620.29	55.95	12.086	
7,700.00	7,635.28	7,652.52	7,607.15	29.42	28.16	129.56	-103.70	650.45	690.27	633.52	56.75	12.164	
7,800.00	7,734.07	7,751.50	7,704.96	29.83	28.56	129.34	-106.69	665.24	704.31	646.77	57.54	12.240	
7,900.00	7,832.86	7,850.47	7,802.78	30.24	28.96	129.12	-109.69	680.03	718.36	660.03	58.33	12.315	
8,000.00	7,931.64	7,949.44	7,900.59	30.65	29.36	128.91	-112.68	694.82	732.42	673.29	59.13	12.387	
8,100.00	8,030.44	8,048.42	7,998.41	31.06	29.76	128.75	-115.68	709.61	746.46	686.53	59.94	12.454	
8,200.00	8,129.55	8,153.42	8,102.33	31.46	30.18	128.67	-118.65	724.28	758.83	698.02	60.81	12.479	
8,300.00	8,229.07	8,261.22	8,209.51	31.84	30.60	128.60	-120.94	735.57	768.02	706.38	61.64	12.460	
8,400.00	8,328.87	8,369.47	8,317.50	32.03	30.88	128.56	-122.43	742.92	773.95	711.83	62.12	12.459	
8,500.00	8,428.82	8,478.00	8,425.97	32.05	30.94	128.53	-123.10	746.28	776.62	714.43	62.19	12.488	
8,600.00	8,528.65	8,580.53	8,538.27	32.05	30.94	-104.45	-123.17	741.41	777.43	715.25	62.18	12.502	
8,700.00	8,626.35	8,704.62	8,649.09	32.01	30.87	-103.91	-123.25	715.11	780.48	718.49	61.99	12.590	
8,800.00	8,718.96	8,817.55	8,751.53	31.94	30.76	-102.90	-123.40	667.99	785.97	724.31	61.67	12.745	
8,900.00	8,803.68	8,928.74	8,841.44	31.85	30.65	-101.48	-123.60	602.89	793.82	732.46	61.35	12.939	
9,000.00	8,877.93	9,037.74	8,915.78	31.77	30.60	-99.70	-123.85	523.40	803.84	742.63	61.22	13.131	
9,100.00	8,939.44	9,144.31	8,972.66	31.70	30.71	-97.66	-124.13	433.45	815.82	754.40	61.42	13.283	
9,200.00	8,986.37	9,248.42	9,011.22	31.66	31.04	-95.41	-124.43	336.90	829.44	767.38	62.07	13.364	
9,300.00	9,017.26	9,350.15	9,031.44	31.71	31.63	-93.06	-124.74	237.34	844.31	781.13	63.18	13.363	
9,400.00	9,031.20	9,449.50	9,035.00	32.26	32.49	-90.74	-125.06	138.12	859.97	795.24	64.74	13.284	
9,500.00	9,032.00	9,548.33	9,035.00	33.25	33.54	-90.20	-125.36	39.29	875.08	808.34	66.74	13.111	
9,600.00	9,032.00	9,647.63	9,035.00	34.46	34.79	-90.19	-125.68	-60.01	886.89	817.72	69.17	12.822	
9,700.00	9,032.00	9,747.27	9,035.00	35.84	36.23	-90.19	-125.99	-159.65	895.23	823.29	71.94	12.444	
9,800.00	9,032.00	9,847.15	9,035.00	37.38	37.83	-90.19	-126.30	-259.53	900.09	825.08	75.01	11.999	
9,900.00	9,032.00	9,947.14	9,035.00	39.05	39.57	-90.19	-126.61	-359.51	901.69	823.34	78.36	11.507	
10,000.00	9,032.00	10,047.13	9,035.00	40.84	41.43	-90.19	-126.93	-459.51	902.60	820.60	82.00	11.007	
10,100.00	9,032.00	10,147.13	9,035.00	42.74	43.40	-90.19	-127.24	-559.50	903.51	817.64	85.87	10.522	
10,200.00	9,032.00	10,247.12	9,035.00	44.74	45.47	-90.19	-127.55	-659.50	904.42	814.49	89.94	10.056	
10,300.00	9,032.00	10,347.12	9,035.00	46.83	47.61	-90.19	-127.87	-759.50	905.33	811.17	94.17	9.614	
10,400.00	9,032.00	10,447.12	9,035.00	48.99	49.83	-90.19	-128.18	-859.49	906.25	807.69	98.55	9.196	
10,500.00	9,032.00	10,547.11	9,035.00	51.22	52.11	-90.19	-128.49	-959.49	907.16	804.09	103.06	8.802	
10,600.00	9,032.00	10,647.11	9,035.00	53.51	54.44	-90.19	-128.81	-1,059.48	908.07	800.38	107.69	8.433	
10,700.00	9,032.00	10,747.10	9,035.00	55.85	56.82	-90.19	-129.12	-1,159.48	908.98	796.57	112.41	8.086	
10,800.00	9,032.00	10,847.10	9,035.00	58.23	59.24	-90.19	-129.43	-1,259.47	909.89	792.67	117.22	7.762	
10,900.00	9,032.00	10,947.09	9,035.00	60.65	61.70	-90.19	-129.75	-1,359.47	910.80	788.69	122.10	7.459	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Scientific Drilling Int.

Anticollision Report

Company: WPX Energy
Project: Eddy County, New Mexico NAD 83

Reference Site: C 17 State Pad

Site Error: 0.00 usft
Reference Well: C 17 State 1H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Plan #1

Local Co-ordinate Reference: Well C 17 State 1H
TVD Reference: GL 3154 + KB 33 = @ 3187.00usft (Nabors X31)
MD Reference: GL 3154 + KB 33 = @ 3187.00usft (Nabors X31)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: Midland District
Offset TVD Reference: Offset Datum

Offset Design C 17 State Pad - C 17 State 2H - Wellbore #1 - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HDGM, 8400-MWD+HDGM													Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Distance		Warning								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
11,000.00	9,032.00	11,047.09	9,035.00	63.11	64.19	-90.19	-130.06	-1,459.46	911.71	784.65	127.06	7.176		
11,100.00	9,032.00	11,147.09	9,035.00	65.60	66.70	-90.19	-130.37	-1,559.46	912.62	780.55	132.07	6.910		
11,200.00	9,032.00	11,247.08	9,035.00	68.12	69.25	-90.19	-130.68	-1,659.45	913.53	776.39	137.14	6.661		
11,300.00	9,032.00	11,347.08	9,035.00	70.67	71.81	-90.19	-131.00	-1,759.45	914.44	772.18	142.26	6.428		
11,400.00	9,032.00	11,447.07	9,035.00	73.23	74.40	-90.19	-131.31	-1,859.44	915.35	767.94	147.41	6.209		
11,500.00	9,032.00	11,547.07	9,035.00	75.82	77.01	-90.19	-131.62	-1,959.44	916.26	763.65	152.61	6.004		
11,600.00	9,032.00	11,647.07	9,035.00	78.42	79.63	-90.19	-131.94	-2,059.43	917.17	759.33	157.84	5.811		
11,700.00	9,032.00	11,747.06	9,035.00	81.04	82.27	-90.19	-132.25	-2,159.43	918.08	754.98	163.10	5.629		
11,800.00	9,032.00	11,847.06	9,035.00	83.68	84.92	-90.19	-132.56	-2,259.43	918.99	750.60	168.40	5.457		
11,900.00	9,032.00	11,947.05	9,035.00	86.33	87.58	-90.19	-132.88	-2,359.42	919.90	746.19	173.71	5.296		
12,000.00	9,032.00	12,047.05	9,035.00	88.99	90.25	-90.19	-133.19	-2,459.42	920.81	741.76	179.05	5.143		
12,100.00	9,032.00	12,147.05	9,035.00	91.66	92.94	-90.19	-133.50	-2,559.41	921.72	737.31	184.42	4.998		
12,200.00	9,032.00	12,247.04	9,035.00	94.35	95.63	-90.19	-133.82	-2,659.41	922.63	732.84	189.80	4.861		
12,300.00	9,032.00	12,347.04	9,035.00	97.04	98.34	-90.19	-134.13	-2,759.40	923.54	728.35	195.20	4.731		
12,400.00	9,032.00	12,447.03	9,035.00	99.74	101.05	-90.19	-134.44	-2,859.40	924.45	723.84	200.61	4.608		
12,500.00	9,032.00	12,547.03	9,035.00	102.45	103.77	-90.19	-134.76	-2,959.39	925.37	719.32	206.05	4.491		
12,600.00	9,032.00	12,647.02	9,035.00	105.17	106.49	-90.19	-135.07	-3,059.39	926.28	714.78	211.49	4.380		
12,700.00	9,032.00	12,747.02	9,035.00	107.89	109.22	-90.19	-135.38	-3,159.38	927.19	710.24	216.95	4.274		
12,800.00	9,032.00	12,847.02	9,035.00	110.62	111.96	-90.19	-135.69	-3,259.38	928.10	705.68	222.42	4.173		
12,900.00	9,032.00	12,947.01	9,035.00	113.36	114.70	-90.19	-136.01	-3,359.37	929.01	701.10	227.90	4.076		
13,000.00	9,032.00	13,047.01	9,035.00	116.10	117.45	-90.18	-136.32	-3,459.37	929.92	696.52	233.40	3.984		
13,100.00	9,032.00	13,147.00	9,035.00	118.85	120.20	-90.18	-136.63	-3,559.37	930.83	691.93	238.90	3.896		
13,200.00	9,032.00	13,247.00	9,035.00	121.60	122.96	-90.18	-136.95	-3,659.36	931.74	687.33	244.41	3.812		
13,300.00	9,032.00	13,347.00	9,035.00	124.36	125.72	-90.18	-137.26	-3,759.36	932.65	682.72	249.93	3.732		
13,400.00	9,032.00	13,446.99	9,035.00	127.12	128.49	-90.18	-137.57	-3,859.35	933.56	678.10	255.46	3.654		
13,500.00	9,032.00	13,546.99	9,035.00	129.88	131.25	-90.18	-137.89	-3,959.35	934.47	673.48	260.99	3.580		
13,600.00	9,032.00	13,646.98	9,035.00	132.65	134.03	-90.18	-138.20	-4,059.34	935.38	668.85	266.53	3.509		
13,700.00	9,032.00	13,746.98	9,035.00	135.42	136.80	-90.18	-138.51	-4,159.34	936.29	664.21	272.08	3.441		
13,800.00	9,032.00	13,846.97	9,035.00	138.19	139.58	-90.18	-138.83	-4,259.33	937.20	659.57	277.64	3.376		
13,900.00	9,032.00	13,946.97	9,035.00	140.97	142.36	-90.18	-139.14	-4,359.33	938.11	654.92	283.20	3.313		
14,000.00	9,032.00	14,046.97	9,035.00	143.75	145.14	-90.18	-139.45	-4,459.32	939.02	650.26	288.76	3.252		
14,100.00	9,032.00	14,146.96	9,035.00	146.53	147.93	-90.18	-139.77	-4,559.32	939.93	645.60	294.33	3.193		
14,107.04	9,032.00	14,154.00	9,035.00	146.73	148.12	-90.18	-139.79	-4,566.36	940.00	645.27	294.72	3.189		

Scientific Drilling Int.

Anticollision Report

Company: WPX Energy
Project: Eddy County, New Mexico NAD 83
Reference Site: C 17 State Pad
Site Error: 0.00 usft
Reference Well: C 17 State 1H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Plan #1

Local Co-ordinate Reference: Well C 17 State 1H
TVD Reference: GL 3154 + KB 33 = @ 3187.00usft (Nabors X31)
MD Reference: GL 3154 + KB 33 = @ 3187.00usft (Nabors X31)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: Midland District
Offset TVD Reference: Offset Datum

Offset Design C 17 State Pad - C 17 State 3H - Wellbore #1 - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-ADK 105, 8400-MWD+HDGM													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.00	0.00	0.00	0.00	0.00	0.00	90.00	0.00	25.00	25.00					
100.00	100.00	100.00	100.00	0.12	0.08	90.00	0.00	25.00	25.00	24.80	0.20	128.049		
200.00	200.00	200.00	200.00	0.48	0.32	90.00	0.00	25.00	25.00	24.22	0.78	32.132		
300.00	300.00	300.00	300.00	0.84	0.55	90.00	0.00	25.00	25.00	23.64	1.36	18.371		
400.00	400.00	400.00	400.00	1.20	0.79	90.00	0.00	25.00	25.00	23.06	1.94	12.863		
500.00	500.00	500.00	500.00	1.55	1.03	90.00	0.00	25.00	25.00	22.47	2.53	9.895		
600.00	600.00	600.00	600.00	1.91	1.27	90.00	0.00	25.00	25.00	21.89	3.11	8.041		
700.00	700.00	700.00	700.00	2.27	1.50	90.00	0.00	25.00	25.00	21.31	3.69	6.771		
800.00	800.00	800.00	800.00	2.63	1.74	90.00	0.00	25.00	25.00	20.73	4.27	5.848		
900.00	900.00	900.00	900.00	2.99	1.98	90.00	0.00	25.00	25.00	20.14	4.86	5.147		
1,000.00	1,000.00	1,000.00	1,000.00	3.35	2.22	90.00	0.00	25.00	25.00	19.56	5.44	4.595		
1,100.00	1,100.00	1,100.00	1,100.00	3.70	2.45	90.00	0.00	25.00	25.00	18.98	6.02	4.151		
1,200.00	1,200.00	1,200.00	1,200.00	4.06	2.69	90.00	0.00	25.00	25.00	18.39	6.61	3.784		
1,300.00	1,300.00	1,300.00	1,300.00	4.42	2.93	90.00	0.00	25.00	25.00	17.81	7.19	3.478		
1,400.00	1,400.00	1,400.00	1,400.00	4.78	3.17	90.00	0.00	25.00	25.00	17.23	7.77	3.217		
1,500.00	1,500.00	1,500.00	1,500.00	5.14	3.40	90.00	0.00	25.00	25.00	16.65	8.35	2.992		
1,600.00	1,600.00	1,600.00	1,600.00	5.50	3.64	90.00	0.00	25.00	25.00	16.06	8.94	2.797		
1,700.00	1,700.00	1,700.00	1,700.00	5.86	3.88	90.00	0.00	25.00	25.00	15.48	9.52	2.626		
1,800.00	1,800.00	1,800.00	1,800.00	6.21	4.12	90.00	0.00	25.00	25.00	14.90	10.10	2.475		
1,900.00	1,900.00	1,900.00	1,900.00	6.57	4.35	90.00	0.00	25.00	25.00	14.31	10.69	2.340		
2,000.00	2,000.00	2,000.00	2,000.00	6.93	4.59	90.00	0.00	25.00	25.00	13.73	11.27	2.219		
2,100.00	2,100.00	2,099.88	2,099.88	7.29	4.81	44.86	-0.20	25.08	24.93	13.38	11.55	2.159		
2,200.00	2,199.95	2,199.36	2,199.31	7.64	4.95	56.20	-2.93	26.16	24.43	12.30	12.12	2.015		
2,200.88	2,200.83	2,200.24	2,200.19	7.65	4.95	56.36	-2.97	26.17	24.43	12.30	12.13	2.014	CC, ES, SF	
2,300.00	2,299.74	2,298.17	2,297.91	8.00	5.10	79.54	-8.82	28.48	26.63	13.83	12.80	2.081		
2,400.00	2,399.24	2,395.82	2,395.09	8.35	5.26	103.44	-17.75	32.01	36.37	22.88	13.49	2.696		
2,500.00	2,498.33	2,491.87	2,490.29	8.71	5.41	118.76	-29.53	36.65	54.63	40.57	14.06	3.886		
2,600.00	2,597.12	2,586.19	2,583.32	9.07	5.57	126.92	-43.98	42.36	79.26	64.68	14.58	5.435		
2,700.00	2,695.91	2,681.12	2,676.52	9.44	5.74	130.84	-60.77	48.99	107.09	91.99	15.10	7.090		
2,800.00	2,794.70	2,776.92	2,770.54	9.81	5.90	133.13	-77.90	55.75	135.38	119.76	15.63	8.664		
2,900.00	2,893.48	2,872.73	2,864.55	10.18	6.08	134.63	-95.02	62.51	163.80	147.65	16.16	10.138		
3,000.00	2,992.27	2,968.53	2,958.57	10.56	6.26	135.69	-112.15	69.26	192.30	175.61	16.69	11.521		
3,100.00	3,091.06	3,064.33	3,052.59	10.94	6.45	136.47	-129.27	76.02	220.83	203.60	17.23	12.816		
3,200.00	3,189.85	3,160.14	3,146.61	11.32	6.65	137.08	-146.39	82.78	249.40	231.63	17.78	14.030		
3,300.00	3,288.63	3,255.94	3,240.62	11.71	6.86	137.56	-163.52	89.54	277.99	259.66	18.33	15.169		
3,400.00	3,387.42	3,351.74	3,334.64	12.09	7.08	137.95	-180.64	96.30	306.59	287.71	18.88	16.239		
3,500.00	3,486.21	3,447.55	3,428.66	12.48	7.30	138.27	-197.77	103.06	335.20	315.77	19.44	17.245		
3,600.00	3,585.00	3,543.35	3,522.68	12.87	7.52	138.55	-214.89	109.82	363.83	343.83	20.00	18.193		
3,700.00	3,683.78	3,639.15	3,616.70	13.26	7.75	138.78	-232.01	116.58	392.45	371.89	20.56	19.086		
3,800.00	3,782.57	3,734.96	3,710.71	13.65	7.97	138.98	-249.14	123.33	421.09	399.96	21.13	19.929		
3,900.00	3,881.36	3,830.76	3,804.73	14.05	8.20	139.16	-266.26	130.09	449.72	428.03	21.70	20.726		
4,000.00	3,980.15	3,926.56	3,898.75	14.44	8.44	139.31	-283.39	136.85	478.36	456.09	22.27	21.480		
4,100.00	4,078.93	4,022.37	3,992.77	14.84	8.67	139.45	-300.51	143.61	507.01	484.16	22.84	22.194		
4,200.00	4,177.72	4,118.17	4,086.79	15.23	8.90	139.57	-317.63	150.37	535.65	512.23	23.42	22.871		
4,300.00	4,276.51	4,213.97	4,180.80	15.63	9.13	139.68	-334.76	157.13	564.30	540.30	24.00	23.513		
4,400.00	4,375.30	4,309.78	4,274.82	16.03	9.37	139.78	-351.88	163.89	592.95	568.37	24.58	24.124		
4,500.00	4,474.08	4,405.58	4,368.84	16.43	9.60	139.87	-369.01	170.65	621.60	596.44	25.16	24.705		
4,600.00	4,572.87	4,501.38	4,462.86	16.83	9.84	139.95	-386.13	177.41	650.25	624.51	25.74	25.258		
4,700.00	4,671.66	4,597.19	4,556.88	17.23	10.08	140.03	-403.25	184.16	678.91	652.58	26.33	25.785		
4,800.00	4,770.45	4,692.99	4,650.89	17.63	10.32	140.10	-420.38	190.92	707.56	680.65	26.92	26.288		
4,900.00	4,869.23	4,788.79	4,744.91	18.03	10.55	140.16	-437.50	197.68	736.22	708.71	27.50	26.769		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Scientific Drilling Int.

Anticollision Report

Company: WPX Energy
Project: Eddy County, New Mexico NAD 83

Local Co-ordinate Reference: Well C 17 State 1H
TVD Reference: GL 3154 + KB 33 = @ 3187.00usft (Nabors X31)

Reference Site: C 17 State Pad

MD Reference: GL 3154 + KB 33 = @ 3187.00usft (Nabors X31)

Site Error: 0.00 usft

North Reference: Grid

Reference Well: C 17 State 1H

Survey Calculation Method: Minimum Curvature

Well Error: 0.00 usft

Output errors are at 2.00 sigma

Reference Wellbore Wellbore #1

Database: Midland District

Reference Design: Plan #1

Offset TVD Reference: Offset Datum

Offset Design C 17 State Pad - C 17 State 3H - Wellbore #1 - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-ADK 105, 8400-MWD+HDGM													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,968.02	4,884.60	4,838.93	18.44	10.79	140.22	-454.63	204.44	764.87	736.78	28.09	27.228		
5,100.00	5,066.81	4,980.40	4,932.95	18.84	11.03	140.28	-471.75	211.20	793.53	764.85	28.68	27.667		
5,200.00	5,165.59	5,076.20	5,026.96	19.24	11.27	140.33	-488.87	217.96	822.19	792.91	29.27	28.087		
5,300.00	5,264.38	5,172.01	5,120.98	19.65	11.51	140.38	-506.00	224.72	850.85	820.98	29.87	28.489		
5,400.00	5,363.17	5,267.81	5,215.00	20.05	11.75	140.42	-523.12	231.48	879.50	849.05	30.46	28.875		
5,500.00	5,461.96	5,363.61	5,309.02	20.46	11.99	140.46	-540.25	238.23	908.16	877.11	31.05	29.246		
5,600.00	5,560.74	5,459.42	5,403.04	20.86	12.23	140.50	-557.37	244.99	938.82	905.17	31.65	29.602		
5,700.00	5,659.53	5,555.22	5,497.05	21.27	12.47	140.54	-574.49	251.75	965.48	933.24	32.24	29.943		
5,800.00	5,758.32	5,651.02	5,591.07	21.67	12.71	140.57	-591.62	258.51	994.14	961.30	32.84	30.272		
5,900.00	5,857.11	5,746.83	5,685.09	22.08	12.96	140.61	-608.74	265.27	1,022.80	989.36	33.44	30.588		
6,000.00	5,955.89	5,842.63	5,779.11	22.48	13.20	140.64	-625.87	272.03	1,051.46	1,017.43	34.04	30.893		
6,100.00	6,054.68	5,938.43	5,873.13	22.89	13.44	140.67	-642.99	278.79	1,080.12	1,045.49	34.64	31.186		
6,200.00	6,153.47	6,034.24	5,967.14	23.30	13.68	140.69	-660.11	285.55	1,108.79	1,073.55	35.23	31.469		
6,300.00	6,252.26	6,130.04	6,061.16	23.70	13.93	140.72	-677.24	292.31	1,137.45	1,101.61	35.83	31.741		
6,400.00	6,351.04	6,225.84	6,155.18	24.11	14.17	140.75	-694.36	299.06	1,166.11	1,129.67	36.44	32.004		
6,500.00	6,449.83	6,321.65	6,249.20	24.52	14.41	140.77	-711.49	305.82	1,194.77	1,157.73	37.04	32.258		
6,600.00	6,548.62	6,417.45	6,343.22	24.93	14.66	140.79	-728.61	312.58	1,223.43	1,185.79	37.64	32.504		
6,700.00	6,647.41	6,513.25	6,437.23	25.33	14.90	140.81	-745.73	319.34	1,252.09	1,213.85	38.24	32.741		
6,800.00	6,746.19	6,609.06	6,531.25	25.74	15.14	140.84	-762.86	326.10	1,280.76	1,241.91	38.85	32.971		
6,900.00	6,844.98	6,704.86	6,625.27	26.15	15.39	140.85	-779.98	332.86	1,309.42	1,269.97	39.45	33.193		
7,000.00	6,943.77	6,800.66	6,719.29	26.56	15.63	140.87	-797.11	339.62	1,338.08	1,298.03	40.05	33.407		
7,100.00	7,042.56	6,896.47	6,813.30	26.97	15.88	140.89	-814.23	346.38	1,366.74	1,326.09	40.66	33.615		
7,200.00	7,141.34	6,992.27	6,907.32	27.38	16.12	140.91	-831.35	353.13	1,395.41	1,354.14	41.26	33.817		
7,300.00	7,240.13	7,088.07	7,001.34	27.79	16.36	140.93	-848.48	359.89	1,424.07	1,382.20	41.87	34.012		
7,400.00	7,338.92	7,183.88	7,095.36	28.20	16.61	140.94	-865.60	366.65	1,452.73	1,410.26	42.48	34.202		
7,500.00	7,437.71	7,279.68	7,189.38	28.60	16.85	140.96	-882.73	373.41	1,481.40	1,438.31	43.08	34.386		
7,600.00	7,536.49	7,375.48	7,283.39	29.01	17.10	140.97	-899.85	380.17	1,510.06	1,466.37	43.69	34.564		
7,700.00	7,635.28	7,471.29	7,377.41	29.42	17.34	140.99	-916.97	386.93	1,538.72	1,494.43	44.30	34.737		
7,800.00	7,734.07	7,567.09	7,471.43	29.83	17.59	141.00	-934.10	393.69	1,567.39	1,522.48	44.90	34.905		
7,900.00	7,832.86	7,662.89	7,565.45	30.24	17.83	141.01	-951.22	400.45	1,596.05	1,550.54	45.51	35.068		
8,000.00	7,931.64	7,758.70	7,659.47	30.65	18.08	141.03	-968.34	407.21	1,624.71	1,578.59	46.12	35.227		
8,100.00	8,030.44	7,854.51	7,753.49	31.06	18.32	141.10	-985.47	413.97	1,653.34	1,606.60	46.75	35.368		
8,200.00	8,129.55	7,950.81	7,847.99	31.46	18.57	141.41	-1,002.68	420.76	1,680.27	1,632.84	47.44	35.421		
8,300.00	8,229.07	8,081.43	7,976.31	31.84	18.90	141.57	-1,025.36	429.71	1,704.26	1,656.09	48.17	35.383		
8,400.00	8,328.87	8,287.71	8,180.68	32.03	19.36	141.59	-1,051.13	439.88	1,720.89	1,672.05	48.84	35.234		
8,500.00	8,428.82	8,498.12	8,390.65	32.05	19.49	141.60	-1,063.25	444.66	1,728.50	1,679.54	48.96	35.307		
8,600.00	8,528.65	8,617.37	8,509.84	32.05	19.51	-91.46	-1,064.11	443.09	1,729.47	1,680.50	48.97	35.318		
8,700.00	8,626.35	8,688.75	8,580.43	32.01	19.53	-91.37	-1,064.14	432.85	1,731.93	1,682.99	48.94	35.388		
8,800.00	8,718.96	8,760.52	8,649.57	31.94	19.55	-91.20	-1,064.20	413.79	1,736.46	1,687.57	48.89	35.517		
8,900.00	8,803.68	8,832.92	8,716.36	31.85	19.58	-90.94	-1,064.28	385.96	1,742.99	1,694.14	48.85	35.679		
9,000.00	8,877.93	8,906.25	8,779.88	31.77	19.62	-90.61	-1,064.40	349.42	1,751.42	1,702.53	48.89	35.825		
9,100.00	8,939.44	8,980.83	8,839.17	31.70	19.68	-90.21	-1,064.54	304.26	1,761.61	1,712.51	49.09	35.882		
9,200.00	8,986.37	9,057.12	8,893.22	31.66	19.75	-89.77	-1,064.71	250.50	1,773.38	1,723.81	49.57	35.773		
9,300.00	9,017.26	9,135.66	8,940.90	31.71	19.85	-89.30	-1,064.90	188.17	1,786.54	1,736.10	50.44	35.421		
9,400.00	9,031.20	9,217.15	8,980.88	32.26	20.04	-88.83	-1,065.13	117.24	1,800.83	1,749.06	51.76	34.790		
9,500.00	9,032.00	9,304.00	9,011.97	33.25	20.55	-89.36	-1,065.38	36.24	1,815.20	1,761.60	53.60	33.866		
9,600.00	9,032.00	9,399.50	9,031.60	34.46	21.66	-89.99	-1,065.67	-57.12	1,826.89	1,770.87	56.02	32.611		
9,700.00	9,032.00	9,499.28	9,036.00	35.84	23.23	-90.13	-1,065.98	-156.71	1,835.23	1,776.28	58.95	31.134		
9,800.00	9,032.00	9,599.16	9,036.00	37.38	25.06	-90.12	-1,066.30	-256.59	1,840.09	1,777.85	62.23	29.568		
9,900.00	9,032.00	9,699.14	9,036.00	39.05	27.08	-90.12	-1,066.61	-356.57	1,841.69	1,775.85	65.85	27.969		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Scientific Drilling Int.

Anticollision Report

Company: WPX Energy
Project: Eddy County, New Mexico NAD 83

Local Co-ordinate Reference: Well C 17 State 1H
TVD Reference: GL 3154 + KB 33 = @ 3187.00usft (Nabors X31)

Reference Site: C 17 State Pad

MD Reference: GL 3154 + KB 33 = @ 3187.00usft (Nabors X31)

Site Error: 0.00 usft

North Reference: Grid

Reference Well: C 17 State 1H

Survey Calculation Method: Minimum Curvature

Well Error: 0.00 usft

Output errors are at 2.00 sigma

Reference Wellbore Wellbore #1

Database: Midland District

Reference Design: Plan #1

Offset TVD Reference: Offset Datum

Offset Design C 17 State Pad - C 17 State 3H - Wellbore #1 - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-ADK 105, 8400-MWD+HDGM													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,000.00	9,032.00	9,799.14	9,036.00	40.84	29.23	-90.12	-1,066.92	-456.57	1,842.60	1,772.81	69.79	26.401		
10,100.00	9,032.00	9,899.13	9,036.00	42.74	31.50	-90.12	-1,067.23	-556.56	1,843.51	1,769.55	73.96	24.925		
10,200.00	9,032.00	9,999.13	9,036.00	44.74	33.86	-90.12	-1,067.55	-656.56	1,844.42	1,766.10	78.32	23.549		
10,300.00	9,032.00	10,099.13	9,036.00	46.83	36.29	-90.12	-1,067.86	-756.55	1,845.33	1,762.49	82.84	22.275		
10,400.00	9,032.00	10,199.12	9,036.00	48.99	38.78	-90.12	-1,068.17	-856.55	1,846.24	1,758.75	87.50	21.101		
10,500.00	9,032.00	10,299.12	9,036.00	51.22	41.31	-90.12	-1,068.49	-956.55	1,847.15	1,754.89	92.26	20.021		
10,600.00	9,032.00	10,399.11	9,036.00	53.51	43.88	-90.12	-1,068.80	-1,056.54	1,848.06	1,750.94	97.13	19.027		
10,700.00	9,032.00	10,499.11	9,036.00	55.85	46.48	-90.12	-1,069.11	-1,156.54	1,848.97	1,746.90	102.07	18.114		
10,800.00	9,032.00	10,599.11	9,036.00	58.23	49.11	-90.12	-1,069.43	-1,256.53	1,849.88	1,742.79	107.10	17.273		
10,900.00	9,032.00	10,699.10	9,036.00	60.65	51.77	-90.12	-1,069.74	-1,356.53	1,850.80	1,738.62	112.18	16.499		
11,000.00	9,032.00	10,799.10	9,036.00	63.11	54.44	-90.12	-1,070.05	-1,456.52	1,851.71	1,734.39	117.32	15.784		
11,100.00	9,032.00	10,899.09	9,036.00	65.60	57.13	-90.12	-1,070.36	-1,556.52	1,852.62	1,730.11	122.50	15.123		
11,200.00	9,032.00	10,999.09	9,036.00	68.12	59.84	-90.12	-1,070.68	-1,656.51	1,853.53	1,725.79	127.73	14.511		
11,300.00	9,032.00	11,099.08	9,036.00	70.67	62.55	-90.12	-1,070.99	-1,756.51	1,854.44	1,721.44	133.00	13.943		
11,400.00	9,032.00	11,199.08	9,036.00	73.23	65.28	-90.12	-1,071.30	-1,856.50	1,855.35	1,717.05	138.30	13.415		
11,500.00	9,032.00	11,299.08	9,036.00	75.82	68.02	-90.12	-1,071.62	-1,956.50	1,856.26	1,712.63	143.63	12.924		
11,600.00	9,032.00	11,399.07	9,036.00	78.42	70.77	-90.12	-1,071.93	-2,056.49	1,857.17	1,708.18	148.99	12.465		
11,700.00	9,032.00	11,499.07	9,036.00	81.04	73.52	-90.12	-1,072.24	-2,156.49	1,858.08	1,703.71	154.37	12.037		
11,800.00	9,032.00	11,599.06	9,036.00	83.68	76.28	-90.12	-1,072.56	-2,256.49	1,858.99	1,699.22	159.77	11.635		
11,900.00	9,032.00	11,699.06	9,036.00	86.33	79.05	-90.12	-1,072.87	-2,356.48	1,859.90	1,694.71	165.19	11.259		
12,000.00	9,032.00	11,799.06	9,036.00	88.99	81.82	-90.12	-1,073.18	-2,456.48	1,860.81	1,690.18	170.63	10.906		
12,100.00	9,032.00	11,899.05	9,036.00	91.66	84.60	-90.12	-1,073.49	-2,556.47	1,861.72	1,685.63	176.08	10.573		
12,200.00	9,032.00	11,999.05	9,036.00	94.35	87.38	-90.12	-1,073.81	-2,656.47	1,862.63	1,681.07	181.55	10.259		
12,300.00	9,032.00	12,099.04	9,036.00	97.04	90.17	-90.12	-1,074.12	-2,756.46	1,863.54	1,676.50	187.04	9.963		
12,400.00	9,032.00	12,199.04	9,036.00	99.74	92.96	-90.12	-1,074.43	-2,856.46	1,864.45	1,671.92	192.53	9.684		
12,500.00	9,032.00	12,299.04	9,036.00	102.45	95.75	-90.12	-1,074.75	-2,956.45	1,865.36	1,667.32	198.04	9.419		
12,600.00	9,032.00	12,399.03	9,036.00	105.17	98.55	-90.12	-1,075.06	-3,056.45	1,866.27	1,662.71	203.56	9.168		
12,700.00	9,032.00	12,499.03	9,036.00	107.89	101.35	-90.12	-1,075.37	-3,156.44	1,867.18	1,658.10	209.08	8.930		
12,800.00	9,032.00	12,599.02	9,036.00	110.62	104.15	-90.12	-1,075.69	-3,256.44	1,868.09	1,653.47	214.62	8.704		
12,900.00	9,032.00	12,699.02	9,036.00	113.36	106.96	-90.12	-1,076.00	-3,356.43	1,869.00	1,648.84	220.16	8.489		
13,000.00	9,032.00	12,799.01	9,036.00	116.10	109.76	-90.12	-1,076.31	-3,456.43	1,869.91	1,644.20	225.71	8.284		
13,100.00	9,032.00	12,899.01	9,036.00	118.85	112.57	-90.12	-1,076.62	-3,556.43	1,870.82	1,639.55	231.27	8.089		
13,200.00	9,032.00	12,999.01	9,036.00	121.60	115.38	-90.12	-1,076.94	-3,656.42	1,871.73	1,634.89	236.84	7.903		
13,300.00	9,032.00	13,099.00	9,036.00	124.36	118.20	-90.12	-1,077.25	-3,756.42	1,872.64	1,630.23	242.41	7.725		
13,400.00	9,032.00	13,199.00	9,036.00	127.12	121.01	-90.12	-1,077.56	-3,856.41	1,873.55	1,625.57	247.99	7.555		
13,500.00	9,032.00	13,298.99	9,036.00	129.88	123.82	-90.12	-1,077.88	-3,956.41	1,874.46	1,620.90	253.57	7.392		
13,600.00	9,032.00	13,398.99	9,036.00	132.65	126.64	-90.12	-1,078.19	-4,056.40	1,875.37	1,616.22	259.15	7.237		
13,700.00	9,032.00	13,498.99	9,036.00	135.42	129.46	-90.12	-1,078.50	-4,156.40	1,876.28	1,611.54	264.75	7.087		
13,800.00	9,032.00	13,598.98	9,036.00	138.19	132.28	-90.12	-1,078.81	-4,256.39	1,877.19	1,606.85	270.34	6.944		
13,900.00	9,032.00	13,698.98	9,036.00	140.97	135.10	-90.12	-1,079.13	-4,356.39	1,878.10	1,602.16	275.94	6.806		
14,000.00	9,032.00	13,798.97	9,036.00	143.75	137.92	-90.12	-1,079.44	-4,456.38	1,879.01	1,597.47	281.55	6.674		
14,100.00	9,032.00	13,898.97	9,036.00	146.53	140.74	-90.12	-1,079.75	-4,556.38	1,879.93	1,592.77	287.15	6.547		
14,107.04	9,032.00	13,906.01	9,036.00	146.73	140.94	-90.12	-1,079.78	-4,563.42	1,879.99	1,592.44	287.55	6.538		

Scientific Drilling Int.

Anticollision Report

Company: WPX Energy
Project: Eddy County, New Mexico NAD 83
Reference Site: C 17 State Pad
Site Error: 0.00 usft
Reference Well: C 17 State 1H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Plan #1

Local Co-ordinate Reference: Well C 17 State 1H
TVD Reference: GL 3154 + KB 33 = @ 3187.00usft (Nabors X31)
MD Reference: GL 3154 + KB 33 = @ 3187.00usft (Nabors X31)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: Midland District
Offset TVD Reference: Offset Datum

Offset Design C 17 State Pad - C 17 State FUTURE 4H - Wellbore #1 - Plan #1 FUTURE													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HDGM													Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Distance		Warning								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	90.00	0.00	75.00	75.00					
100.00	100.00	100.00	100.00	0.12	0.12	90.00	0.00	75.00	75.00	74.76	0.24	312.271		
200.00	200.00	200.00	200.00	0.48	0.48	90.00	0.00	75.00	75.00	74.04	0.96	78.360		
300.00	300.00	300.00	300.00	0.84	0.84	90.00	0.00	75.00	75.00	73.33	1.67	44.801		
400.00	400.00	400.00	400.00	1.20	1.20	90.00	0.00	75.00	75.00	72.61	2.39	31.368		
500.00	500.00	500.00	500.00	1.55	1.55	90.00	0.00	75.00	75.00	71.89	3.11	24.132		
600.00	600.00	600.00	600.00	1.91	1.91	90.00	0.00	75.00	75.00	71.18	3.82	19.608		
700.00	700.00	700.00	700.00	2.27	2.27	90.00	0.00	75.00	75.00	70.46	4.54	16.513		
800.00	800.00	800.00	800.00	2.63	2.63	90.00	0.00	75.00	75.00	69.74	5.26	14.262		
900.00	900.00	900.00	900.00	2.99	2.99	90.00	0.00	75.00	75.00	69.02	5.98	12.551		
1,000.00	1,000.00	1,000.00	1,000.00	3.35	3.35	90.00	0.00	75.00	75.00	68.31	6.69	11.206		
1,100.00	1,100.00	1,100.00	1,100.00	3.70	3.70	90.00	0.00	75.00	75.00	67.59	7.41	10.122		
1,200.00	1,200.00	1,200.00	1,200.00	4.06	4.06	90.00	0.00	75.00	75.00	66.87	8.13	9.229		
1,300.00	1,300.00	1,300.00	1,300.00	4.42	4.42	90.00	0.00	75.00	75.00	66.16	8.84	8.481		
1,400.00	1,400.00	1,400.00	1,400.00	4.78	4.78	90.00	0.00	75.00	75.00	65.44	9.56	7.845		
1,500.00	1,500.00	1,500.00	1,500.00	5.14	5.14	90.00	0.00	75.00	75.00	64.72	10.28	7.298		
1,600.00	1,600.00	1,600.00	1,600.00	5.50	5.50	90.00	0.00	75.00	75.00	64.01	10.99	6.822		
1,700.00	1,700.00	1,700.00	1,700.00	5.86	5.86	90.00	0.00	75.00	75.00	63.29	11.71	6.404		
1,800.00	1,800.00	1,800.00	1,800.00	6.21	6.21	90.00	0.00	75.00	75.00	62.57	12.43	6.035		
1,900.00	1,900.00	1,900.00	1,900.00	6.57	6.57	90.00	0.00	75.00	75.00	61.85	13.15	5.706		
2,000.00	2,000.00	2,000.00	2,000.00	6.93	6.93	90.00	0.00	75.00	75.00	61.14	13.86	5.410		
2,100.00	2,100.00	2,100.00	2,100.00	7.29	7.29	44.18	0.00	75.00	74.85	60.27	14.58	5.134		
2,200.00	2,199.95	2,199.95	2,199.95	7.64	7.65	45.84	0.00	75.00	72.75	57.47	15.28	4.761		
2,300.00	2,299.74	2,299.74	2,299.74	8.00	8.01	49.78	0.00	75.00	68.41	52.43	15.98	4.281		
2,303.95	2,303.67	2,300.00	2,300.00	8.01	8.01	49.80	0.00	75.00	68.30	52.30	15.99	4.270 CC, ES, SF		
2,400.00	2,399.24	2,300.00	2,300.00	8.35	8.01	48.80	0.00	75.00	117.25	100.94	16.31	7.189		
2,500.00	2,498.33	2,300.00	2,300.00	8.71	8.01	45.82	0.00	75.00	206.14	189.52	16.62	12.400		
2,600.00	2,597.12	2,300.00	2,300.00	9.07	8.01	45.37	0.00	75.00	301.71	284.74	16.98	17.774		
2,700.00	2,695.91	2,300.00	2,300.00	9.44	8.01	45.37	0.00	75.00	399.46	382.12	17.33	23.044		
2,800.00	2,794.70	2,300.00	2,300.00	9.81	8.01	45.37	0.00	75.00	498.10	480.40	17.70	28.147		
2,900.00	2,893.48	2,300.00	2,300.00	10.18	8.01	45.37	0.00	75.00	597.19	579.13	18.06	33.066		
3,000.00	2,992.27	2,300.00	2,300.00	10.56	8.01	45.37	0.00	75.00	696.54	678.12	18.43	37.800		
3,100.00	3,091.06	2,300.00	2,300.00	10.94	8.01	45.37	0.00	75.00	796.06	777.26	18.80	42.353		
3,200.00	3,189.85	2,300.00	2,300.00	11.32	8.01	45.37	0.00	75.00	895.68	876.51	19.17	46.733		
3,300.00	3,288.63	2,300.00	2,300.00	11.71	8.01	45.37	0.00	75.00	995.38	975.84	19.54	50.947		
3,400.00	3,387.42	2,300.00	2,300.00	12.09	8.01	45.37	0.00	75.00	1,095.13	1,075.22	19.91	55.003		
3,500.00	3,486.21	2,300.00	2,300.00	12.48	8.01	45.37	0.00	75.00	1,194.93	1,174.64	20.28	58.907		
3,600.00	3,585.00	2,300.00	2,300.00	12.87	8.01	45.37	0.00	75.00	1,294.75	1,274.09	20.66	62.668		
3,700.00	3,683.78	2,300.00	2,300.00	13.26	8.01	45.37	0.00	75.00	1,394.60	1,373.57	21.04	66.292		
3,800.00	3,782.57	2,300.00	2,300.00	13.65	8.01	45.37	0.00	75.00	1,494.47	1,473.06	21.41	69.787		
3,900.00	3,881.36	2,300.00	2,300.00	14.05	8.01	45.37	0.00	75.00	1,594.36	1,572.57	21.79	73.159		
4,000.00	3,980.15	2,300.00	2,300.00	14.44	8.01	45.37	0.00	75.00	1,694.26	1,672.09	22.17	76.412		
4,100.00	4,078.93	2,300.00	2,300.00	14.84	8.01	45.37	0.00	75.00	1,794.17	1,771.62	22.55	79.555		
4,200.00	4,177.72	2,300.00	2,300.00	15.23	8.01	45.37	0.00	75.00	1,894.10	1,871.16	22.93	82.591		
4,300.00	4,276.51	2,300.00	2,300.00	15.63	8.01	45.37	0.00	75.00	1,994.02	1,970.71	23.31	85.526		
4,400.00	4,375.30	2,300.00	2,300.00	16.03	8.01	45.37	0.00	75.00	2,093.96	2,070.26	23.70	88.364		
4,500.00	4,474.08	2,300.00	2,300.00	16.43	8.01	45.37	0.00	75.00	2,193.90	2,169.82	24.08	91.110		
4,600.00	4,572.87	2,300.00	2,300.00	16.83	8.01	45.37	0.00	75.00	2,293.85	2,269.39	24.46	93.769		
4,700.00	4,671.66	2,300.00	2,300.00	17.23	8.01	45.37	0.00	75.00	2,393.80	2,368.95	24.85	96.344		
4,800.00	4,770.45	2,300.00	2,300.00	17.63	8.01	45.37	0.00	75.00	2,493.75	2,468.52	25.23	98.839		
4,900.00	4,869.23	2,300.00	2,300.00	18.03	8.01	45.37	0.00	75.00	2,593.71	2,568.10	25.62	101.257		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Scientific Drilling Int.

Anticollision Report

Company: WPX Energy
Project: Eddy County, New Mexico NAD 83

Local Co-ordinate Reference: Well C 17 State 1H
TVD Reference: GL 3154 + KB 33 = @ 3187.00usft (Nabors X31)

Reference Site: C 17 State Pad

MD Reference: GL 3154 + KB 33 = @ 3187.00usft (Nabors X31)

Site Error: 0.00 usft

North Reference: Grid

Reference Well: C 17 State 1H

Survey Calculation Method: Minimum Curvature

Well Error: 0.00 usft

Output errors are at 2.00 sigma

Reference Wellbore Wellbore #1

Database: Midland District

Reference Design: Plan #1

Offset TVD Reference: Offset Datum

Offset Design C 17 State Pad - C 17 State FUTURE 4H - Wellbore #1 - Plan #1 FUTURE													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HDGM													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,000.00	4,968.02	2,300.00	2,300.00	18.44	8.01	45.37	0.00	75.00	2,693.67	2,667.67	26.00	103.603	
5,100.00	5,066.81	2,300.00	2,300.00	18.84	8.01	45.37	0.00	75.00	2,793.64	2,767.25	26.39	105.879	
5,200.00	5,165.59	2,300.00	2,300.00	19.24	8.01	45.37	0.00	75.00	2,893.61	2,866.83	26.77	108.088	
5,300.00	5,264.38	2,300.00	2,300.00	19.65	8.01	45.37	0.00	75.00	2,993.57	2,966.42	27.16	110.233	
5,400.00	5,363.17	2,300.00	2,300.00	20.05	8.01	45.37	0.00	75.00	3,093.54	3,066.00	27.54	112.316	
5,500.00	5,461.96	2,300.00	2,300.00	20.46	8.01	45.37	0.00	75.00	3,193.52	3,165.59	27.93	114.341	
5,600.00	5,560.74	2,300.00	2,300.00	20.86	8.01	45.37	0.00	75.00	3,293.49	3,265.18	28.32	116.310	
5,700.00	5,659.53	2,300.00	2,300.00	21.27	8.01	45.37	0.00	75.00	3,393.47	3,364.76	28.70	118.224	
5,800.00	5,758.32	2,300.00	2,300.00	21.67	8.01	45.37	0.00	75.00	3,493.45	3,464.35	29.09	120.087	
5,900.00	5,857.11	2,300.00	2,300.00	22.08	8.01	45.37	0.00	75.00	3,593.42	3,563.95	29.48	121.900	
6,000.00	5,955.89	2,300.00	2,300.00	22.48	8.01	45.37	0.00	75.00	3,693.40	3,663.54	29.87	123.664	
6,100.00	6,054.68	2,300.00	2,300.00	22.89	8.01	45.37	0.00	75.00	3,793.38	3,763.13	30.25	125.383	
6,200.00	6,153.47	2,300.00	2,300.00	23.30	8.01	45.37	0.00	75.00	3,893.37	3,862.72	30.64	127.057	
6,300.00	6,252.26	2,300.00	2,300.00	23.70	8.01	45.37	0.00	75.00	3,993.35	3,962.32	31.03	128.689	
6,400.00	6,351.04	2,300.00	2,300.00	24.11	8.01	45.37	0.00	75.00	4,093.33	4,061.91	31.42	130.280	
6,500.00	6,449.83	2,300.00	2,300.00	24.52	8.01	45.37	0.00	75.00	4,193.32	4,161.51	31.81	131.831	
6,600.00	6,548.62	2,300.00	2,300.00	24.93	8.01	45.37	0.00	75.00	4,293.30	4,261.11	32.20	133.344	
6,700.00	6,647.41	2,300.00	2,300.00	25.33	8.01	45.37	0.00	75.00	4,393.29	4,360.70	32.59	134.820	
6,800.00	6,746.19	2,300.00	2,300.00	25.74	8.01	45.37	0.00	75.00	4,493.27	4,460.30	32.98	136.261	
6,900.00	6,844.98	2,300.00	2,300.00	26.15	8.01	45.37	0.00	75.00	4,593.26	4,559.90	33.36	137.668	
7,000.00	6,943.77	2,300.00	2,300.00	26.56	8.01	45.37	0.00	75.00	4,693.25	4,659.49	33.75	139.042	
7,100.00	7,042.56	2,300.00	2,300.00	26.97	8.01	45.37	0.00	75.00	4,793.24	4,759.09	34.14	140.384	
7,200.00	7,141.34	2,300.00	2,300.00	27.38	8.01	45.37	0.00	75.00	4,893.23	4,858.69	34.53	141.695	
7,300.00	7,240.13	2,300.00	2,300.00	27.79	8.01	45.37	0.00	75.00	4,993.21	4,958.29	34.92	142.976	
7,400.00	7,338.92	2,300.00	2,300.00	28.20	8.01	45.37	0.00	75.00	5,093.20	5,057.89	35.31	144.229	
7,500.00	7,437.71	2,300.00	2,300.00	28.60	8.01	45.37	0.00	75.00	5,193.19	5,157.49	35.70	145.454	
7,600.00	7,536.49	2,300.00	2,300.00	29.01	8.01	45.37	0.00	75.00	5,293.18	5,257.09	36.09	146.652	
7,700.00	7,635.28	2,300.00	2,300.00	29.42	8.01	45.37	0.00	75.00	5,393.17	5,356.69	36.48	147.824	
7,800.00	7,734.07	2,300.00	2,300.00	29.83	8.01	45.37	0.00	75.00	5,493.17	5,456.29	36.87	148.970	
7,900.00	7,832.86	2,300.00	2,300.00	30.24	8.01	45.37	0.00	75.00	5,593.16	5,555.89	37.26	150.093	
8,000.00	7,931.64	2,300.00	2,300.00	30.65	8.01	45.37	0.00	75.00	5,693.15	5,655.49	37.66	151.192	
8,100.00	8,030.44	2,300.00	2,300.00	31.06	8.01	70.52	0.00	75.00	5,793.14	5,754.34	38.00	149.317	
8,200.00	8,129.55	2,300.00	2,300.00	31.46	8.01	164.29	0.00	75.00	5,893.12	5,855.31	37.82	155.836	
8,300.00	8,229.07	2,300.00	2,300.00	31.84	8.01	172.43	0.00	75.00	5,992.99	5,954.94	38.06	157.463	
8,400.00	8,328.87	2,300.00	2,300.00	32.03	8.01	175.05	0.00	75.00	6,092.65	6,054.47	38.18	159.573	
8,500.00	8,428.82	2,300.00	2,300.00	32.05	8.01	176.34	0.00	75.00	6,191.97	6,153.87	38.10	162.528	
8,600.00	8,528.65	2,300.00	2,300.00	32.05	8.01	-30.74	0.00	75.00	6,290.49	6,252.71	37.79	166.478	
8,700.00	8,626.35	2,300.00	2,300.00	32.01	8.01	-17.80	0.00	75.00	6,385.71	6,349.13	36.58	174.575	
8,800.00	8,718.96	2,300.00	2,300.00	31.94	8.01	-12.60	0.00	75.00	6,474.91	6,440.70	34.22	189.228	
8,900.00	8,803.68	2,300.00	2,300.00	31.85	8.01	-9.91	0.00	75.00	6,555.69	6,524.77	30.93	211.981	
9,000.00	8,877.93	2,300.00	2,300.00	31.77	8.01	-8.34	0.00	75.00	6,625.94	6,599.01	26.93	246.010	
9,100.00	8,939.44	2,300.00	2,300.00	31.70	8.01	-7.36	0.00	75.00	6,683.89	6,661.34	22.55	296.437	
9,200.00	8,986.37	2,300.00	2,300.00	31.66	8.01	-6.75	0.00	75.00	6,728.10	6,709.85	18.25	368.624	
9,300.00	9,017.26	2,300.00	2,300.00	31.71	8.01	-6.40	0.00	75.00	6,757.53	6,742.64	14.89	453.739	
9,400.00	9,031.20	2,300.00	2,300.00	32.26	8.01	-6.25	0.00	75.00	6,771.47	6,757.76	13.71	493.834	
9,500.00	9,032.00	2,300.00	2,300.00	33.25	8.01	-6.26	0.00	75.00	6,773.72	6,759.58	14.14	478.880	
9,600.00	9,032.00	2,300.00	2,300.00	34.46	8.01	-6.31	0.00	75.00	6,776.30	6,761.79	14.50	467.172	
9,700.00	9,032.00	2,300.00	2,300.00	35.84	8.01	-6.38	0.00	75.00	6,779.96	6,765.05	14.92	454.561	
9,800.00	9,032.00	2,300.00	2,300.00	37.38	8.01	-6.47	0.00	75.00	6,784.71	6,769.34	15.37	441.345	
9,900.00	9,032.00	2,300.00	2,300.00	39.05	8.01	-6.55	0.00	75.00	6,790.57	6,774.71	15.86	428.139	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Scientific Drilling Int.

Anticollision Report

Company: WPX Energy
Project: Eddy County, New Mexico NAD 83
Reference Site: C 17 State Pad
Site Error: 0.00 usft
Reference Well: C 17 State 1H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Plan #1

Local Co-ordinate Reference: Well C 17 State 1H
TVD Reference: GL 3154 + KB 33 = @ 3187.00usft (Nabors X31)
MD Reference: GL 3154 + KB 33 = @ 3187.00usft (Nabors X31)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: Midland District
Offset TVD Reference: Offset Datum

Offset Design C 17 State Pad - C 17 State FUTURE 4H - Wellbore #1 - Plan #1 FUTURE													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HDGM													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,000.00	9,032.00	2,300.00	2,300.00	40.84	8.01	-6.55	0.00	75.00	6,797.81	6,781.44	16.36	415.433		
10,100.00	9,032.00	2,300.00	2,300.00	42.74	8.01	-6.55	0.00	75.00	6,806.51	6,789.61	16.90	402.801		
10,200.00	9,032.00	2,300.00	2,300.00	44.74	8.01	-6.55	0.00	75.00	6,816.67	6,799.21	17.46	390.383		
10,300.00	9,032.00	2,300.00	2,300.00	46.83	8.01	-6.55	0.00	75.00	6,828.28	6,810.23	18.05	378.286		
10,400.00	9,032.00	2,300.00	2,300.00	48.99	8.01	-6.55	0.00	75.00	6,841.33	6,822.66	18.66	366.582		
10,500.00	9,032.00	2,300.00	2,300.00	51.22	8.01	-6.55	0.00	75.00	6,855.81	6,836.52	19.29	355.323		
10,600.00	9,032.00	2,300.00	2,300.00	53.51	8.01	-6.55	0.00	75.00	6,871.72	6,851.78	19.94	344.538		
10,700.00	9,032.00	2,300.00	2,300.00	55.85	8.01	-6.55	0.00	75.00	6,889.04	6,868.43	20.61	334.242		
10,800.00	9,032.00	2,300.00	2,300.00	58.23	8.01	-6.55	0.00	75.00	6,907.77	6,886.48	21.29	324.438		
10,900.00	9,032.00	2,300.00	2,300.00	60.65	8.01	-6.55	0.00	75.00	6,927.89	6,905.91	21.98	315.121		
11,000.00	9,032.00	2,300.00	2,300.00	63.11	8.01	-6.55	0.00	75.00	6,949.40	6,926.71	22.69	306.279		
11,100.00	9,032.00	2,300.00	2,300.00	65.60	8.01	-6.55	0.00	75.00	6,972.27	6,948.86	23.40	297.897		
11,200.00	9,032.00	2,300.00	2,300.00	68.12	8.01	-6.55	0.00	75.00	6,996.49	6,972.36	24.13	289.957		
11,300.00	9,032.00	2,300.00	2,300.00	70.67	8.01	-6.55	0.00	75.00	7,022.06	6,997.20	24.86	282.438		
11,400.00	9,032.00	2,300.00	2,300.00	73.23	8.01	-6.55	0.00	75.00	7,048.95	7,023.35	25.60	275.320		
11,500.00	9,032.00	2,300.00	2,300.00	75.82	8.01	-6.55	0.00	75.00	7,077.15	7,050.80	26.35	268.582		
11,600.00	9,032.00	2,300.00	2,300.00	78.42	8.01	-6.55	0.00	75.00	7,106.65	7,079.55	27.10	262.203		
11,700.00	9,032.00	2,300.00	2,300.00	81.04	8.01	-6.55	0.00	75.00	7,137.43	7,109.56	27.86	256.162		
11,800.00	9,032.00	2,300.00	2,300.00	83.68	8.01	-6.55	0.00	75.00	7,169.47	7,140.84	28.63	250.442		
11,900.00	9,032.00	2,300.00	2,300.00	86.33	8.01	-6.55	0.00	75.00	7,202.75	7,173.36	29.40	245.021		
12,000.00	9,032.00	2,300.00	2,300.00	88.99	8.01	-6.55	0.00	75.00	7,237.27	7,207.10	30.17	239.883		
12,100.00	9,032.00	2,300.00	2,300.00	91.66	8.01	-6.55	0.00	75.00	7,272.99	7,242.05	30.95	235.011		
12,200.00	9,032.00	2,300.00	2,300.00	94.35	8.01	-6.55	0.00	75.00	7,309.91	7,278.18	31.73	230.389		
12,300.00	9,032.00	2,300.00	2,300.00	97.04	8.01	-6.55	0.00	75.00	7,348.01	7,315.49	32.51	226.002		
12,400.00	9,032.00	2,300.00	2,300.00	99.74	8.01	-6.55	0.00	75.00	7,387.26	7,353.96	33.30	221.835		
12,500.00	9,032.00	2,300.00	2,300.00	102.45	8.01	-6.55	0.00	75.00	7,427.65	7,393.56	34.09	217.876		
12,600.00	9,032.00	2,300.00	2,300.00	105.17	8.01	-6.55	0.00	75.00	7,469.16	7,434.28	34.88	214.112		
12,700.00	9,032.00	2,300.00	2,300.00	107.89	8.01	-6.55	0.00	75.00	7,511.78	7,476.10	35.68	210.532		
12,800.00	9,032.00	2,300.00	2,300.00	110.62	8.01	-6.55	0.00	75.00	7,555.47	7,519.00	36.48	207.124		
12,900.00	9,032.00	2,300.00	2,300.00	113.36	8.01	-6.55	0.00	75.00	7,600.24	7,562.96	37.28	203.880		
13,000.00	9,032.00	2,300.00	2,300.00	116.10	8.01	-6.55	0.00	75.00	7,646.04	7,607.96	38.08	200.788		
13,100.00	9,032.00	2,300.00	2,300.00	118.85	8.01	-6.55	0.00	75.00	7,692.88	7,653.99	38.88	197.841		
13,200.00	9,032.00	2,300.00	2,300.00	121.60	8.01	-6.55	0.00	75.00	7,740.72	7,701.03	39.69	195.030		
13,300.00	9,032.00	2,300.00	2,300.00	124.36	8.01	-6.55	0.00	75.00	7,789.55	7,749.06	40.50	192.348		
13,400.00	9,032.00	2,300.00	2,300.00	127.12	8.01	-6.55	0.00	75.00	7,839.36	7,798.05	41.31	189.787		
13,500.00	9,032.00	2,300.00	2,300.00	129.88	8.01	-6.55	0.00	75.00	7,890.12	7,848.00	42.12	187.341		
13,600.00	9,032.00	2,300.00	2,300.00	132.65	8.01	-6.55	0.00	75.00	7,941.81	7,898.88	42.93	185.003		
13,700.00	9,032.00	2,300.00	2,300.00	135.42	8.01	-6.55	0.00	75.00	7,994.42	7,950.68	43.74	182.768		
13,800.00	9,032.00	2,300.00	2,300.00	138.19	8.01	-6.55	0.00	75.00	8,047.93	8,003.37	44.55	180.629		
13,900.00	9,032.00	2,300.00	2,300.00	140.97	8.01	-6.55	0.00	75.00	8,102.31	8,056.94	45.37	178.582		
14,000.00	9,032.00	2,300.00	2,300.00	143.75	8.01	-6.55	0.00	75.00	8,157.57	8,111.38	46.19	176.622		
14,100.00	9,032.00	2,300.00	2,300.00	146.53	8.01	-6.55	0.00	75.00	8,213.66	8,166.66	47.00	174.744		
14,107.04	9,032.00	2,300.00	2,300.00	146.73	8.01	-6.55	0.00	75.00	8,217.64	8,170.58	47.06	174.615		

Scientific Drilling Int.

Anticollision Report

Company: WPX Energy
Project: Eddy County, New Mexico NAD 83
Reference Site: C 17 State Pad
Site Error: 0.00 usft
Reference Well: C 17 State 1H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Plan #1

Local Co-ordinate Reference: Well C 17 State 1H
TVD Reference: GL 3154 + KB 33 = @ 3187.00usft (Nabors X31)
MD Reference: GL 3154 + KB 33 = @ 3187.00usft (Nabors X31)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: Midland District
Offset TVD Reference: Offset Datum

Offset Design C 17 State Pad - C 17 State FUTURE 5H - Wellbore #1 - Plan #1 FUTURE													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HDGM													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-90.00	0.00	-25.00	25.00					
100.00	100.00	100.00	100.00	0.12	0.12	-90.00	0.00	-25.00	25.00	24.76	0.24	104.090		
200.00	200.00	200.00	200.00	0.48	0.48	-90.00	0.00	-25.00	25.00	24.04	0.96	26.120		
300.00	300.00	300.00	300.00	0.84	0.84	-90.00	0.00	-25.00	25.00	23.33	1.67	14.934		
400.00	400.00	400.00	400.00	1.20	1.20	-90.00	0.00	-25.00	25.00	22.61	2.39	10.456		
500.00	500.00	500.00	500.00	1.55	1.55	-90.00	0.00	-25.00	25.00	21.89	3.11	8.044		
600.00	600.00	600.00	600.00	1.91	1.91	-90.00	0.00	-25.00	25.00	21.18	3.82	6.536		
700.00	700.00	700.00	700.00	2.27	2.27	-90.00	0.00	-25.00	25.00	20.46	4.54	5.504		
800.00	800.00	800.00	800.00	2.63	2.63	-90.00	0.00	-25.00	25.00	19.74	5.26	4.754		
900.00	900.00	900.00	900.00	2.99	2.99	-90.00	0.00	-25.00	25.00	19.02	5.98	4.184		
1,000.00	1,000.00	1,000.00	1,000.00	3.35	3.35	-90.00	0.00	-25.00	25.00	18.31	6.69	3.735		
1,100.00	1,100.00	1,100.00	1,100.00	3.70	3.70	-90.00	0.00	-25.00	25.00	17.59	7.41	3.374		
1,200.00	1,200.00	1,200.00	1,200.00	4.06	4.06	-90.00	0.00	-25.00	25.00	16.87	8.13	3.076		
1,300.00	1,300.00	1,300.00	1,300.00	4.42	4.42	-90.00	0.00	-25.00	25.00	16.16	8.84	2.827		
1,400.00	1,400.00	1,400.00	1,400.00	4.78	4.78	-90.00	0.00	-25.00	25.00	15.44	9.56	2.615		
1,500.00	1,500.00	1,500.00	1,500.00	5.14	5.14	-90.00	0.00	-25.00	25.00	14.72	10.28	2.433		
1,600.00	1,600.00	1,600.00	1,600.00	5.50	5.50	-90.00	0.00	-25.00	25.00	14.01	10.99	2.274		
1,700.00	1,700.00	1,700.00	1,700.00	5.86	5.86	-90.00	0.00	-25.00	25.00	13.29	11.71	2.135		
1,800.00	1,800.00	1,800.00	1,800.00	6.21	6.21	-90.00	0.00	-25.00	25.00	12.57	12.43	2.012		
1,900.00	1,900.00	1,900.00	1,900.00	6.57	6.57	-90.00	0.00	-25.00	25.00	11.85	13.15	1.902		
2,000.00	2,000.00	2,000.00	2,000.00	6.93	6.93	-90.00	0.00	-25.00	25.00	11.14	13.86	1.803 CC		
2,043.24	2,043.24	2,043.24	2,043.24	7.09	7.09	-136.11	0.00	-25.00	25.08	10.91	14.17	1.770		
2,100.00	2,100.00	2,100.00	2,100.00	7.29	7.29	-136.27	0.00	-25.00	25.15	10.58	14.58	1.726 ES, SF		
2,200.00	2,199.95	2,199.95	2,199.95	7.64	7.65	-140.54	0.00	-25.00	27.37	12.09	15.28	1.792		
2,300.00	2,299.74	2,299.74	2,299.74	8.00	8.01	-147.70	0.00	-25.00	32.62	16.65	15.96	2.043		
2,400.00	2,399.24	2,300.00	2,300.00	8.35	8.01	-145.91	0.00	-25.00	107.51	91.23	16.28	6.602		
2,500.00	2,498.33	2,300.00	2,300.00	8.71	8.01	-139.47	0.00	-25.00	205.50	188.89	16.61	12.373		
2,600.00	2,597.12	2,300.00	2,300.00	9.07	8.01	-138.27	0.00	-25.00	304.95	287.99	16.96	17.978		
2,700.00	2,695.91	2,300.00	2,300.00	9.44	8.01	-138.27	0.00	-25.00	404.68	387.35	17.32	23.363		
2,800.00	2,794.70	2,300.00	2,300.00	9.81	8.01	-138.27	0.00	-25.00	504.51	486.83	17.68	28.531		
2,900.00	2,893.48	2,300.00	2,300.00	10.18	8.01	-138.27	0.00	-25.00	604.40	586.35	18.05	33.492		
3,000.00	2,992.27	2,300.00	2,300.00	10.56	8.01	-138.27	0.00	-25.00	704.32	685.90	18.41	38.254		
3,100.00	3,091.06	2,300.00	2,300.00	10.94	8.01	-138.27	0.00	-25.00	804.26	785.48	18.78	42.828		
3,200.00	3,189.85	2,300.00	2,300.00	11.32	8.01	-138.27	0.00	-25.00	904.21	885.06	19.15	47.223		
3,300.00	3,288.63	2,300.00	2,300.00	11.71	8.01	-138.27	0.00	-25.00	1,004.17	984.65	19.52	51.448		
3,400.00	3,387.42	2,300.00	2,300.00	12.09	8.01	-138.27	0.00	-25.00	1,104.14	1,084.25	19.89	55.513		
3,500.00	3,486.21	2,300.00	2,300.00	12.48	8.01	-138.27	0.00	-25.00	1,204.12	1,183.85	20.26	59.425		
3,600.00	3,585.00	2,300.00	2,300.00	12.87	8.01	-138.27	0.00	-25.00	1,304.09	1,283.46	20.64	63.193		
3,700.00	3,683.78	2,300.00	2,300.00	13.26	8.01	-138.27	0.00	-25.00	1,404.07	1,383.06	21.01	66.823		
3,800.00	3,782.57	2,300.00	2,300.00	13.65	8.01	-138.27	0.00	-25.00	1,504.06	1,482.67	21.39	70.324		
3,900.00	3,881.36	2,300.00	2,300.00	14.05	8.01	-138.27	0.00	-25.00	1,604.04	1,582.28	21.76	73.700		
4,000.00	3,980.15	2,300.00	2,300.00	14.44	8.01	-138.27	0.00	-25.00	1,704.03	1,681.89	22.14	76.959		
4,100.00	4,078.93	2,300.00	2,300.00	14.84	8.01	-138.27	0.00	-25.00	1,804.02	1,781.50	22.52	80.106		
4,200.00	4,177.72	2,300.00	2,300.00	15.23	8.01	-138.27	0.00	-25.00	1,904.01	1,881.11	22.90	83.147		
4,300.00	4,276.51	2,300.00	2,300.00	15.63	8.01	-138.27	0.00	-25.00	2,004.00	1,980.72	23.28	86.087		
4,400.00	4,375.30	2,300.00	2,300.00	16.03	8.01	-138.27	0.00	-25.00	2,103.99	2,080.33	23.66	88.930		
4,500.00	4,474.08	2,300.00	2,300.00	16.43	8.01	-138.27	0.00	-25.00	2,203.99	2,179.95	24.04	91.681		
4,600.00	4,572.87	2,300.00	2,300.00	16.83	8.01	-138.27	0.00	-25.00	2,303.98	2,279.56	24.42	94.344		
4,700.00	4,671.66	2,300.00	2,300.00	17.23	8.01	-138.27	0.00	-25.00	2,403.97	2,379.17	24.80	96.924		
4,800.00	4,770.45	2,300.00	2,300.00	17.63	8.01	-138.27	0.00	-25.00	2,503.97	2,478.78	25.18	99.424		
4,900.00	4,869.23	2,300.00	2,300.00	18.03	8.01	-138.27	0.00	-25.00	2,603.96	2,578.40	25.57	101.848		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Scientific Drilling Int.

Anticollision Report

Company: WPX Energy
Project: Eddy County, New Mexico NAD 83
Reference Site: C 17 State Pad
Site Error: 0.00 usft
Reference Well: C 17 State 1H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Plan #1

Local Co-ordinate Reference: Well C 17 State 1H
TVD Reference: GL 3154 + KB 33 = @ 3187.00usft (Nabors X31)
MD Reference: GL 3154 + KB 33 = @ 3187.00usft (Nabors X31)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: Midland District
Offset TVD Reference: Offset Datum

Offset Design C 17 State Pad - C 17 State FUTURE 5H - Wellbore #1 - Plan #1 FUTURE														Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HDGM														Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
5,000.00	4,968.02	2,300.00	2,300.00	18.44	8.01	-138.27	0.00	-25.00	2,703.96	2,678.01	25.95	104.199			
5,100.00	5,066.81	2,300.00	2,300.00	18.84	8.01	-138.27	0.00	-25.00	2,803.95	2,777.62	26.33	106.479			
5,200.00	5,165.59	2,300.00	2,300.00	19.24	8.01	-138.27	0.00	-25.00	2,903.95	2,877.23	26.72	108.694			
5,300.00	5,264.38	2,300.00	2,300.00	19.65	8.01	-138.27	0.00	-25.00	3,003.95	2,976.84	27.10	110.844			
5,400.00	5,363.17	2,300.00	2,300.00	20.05	8.01	-138.27	0.00	-25.00	3,103.94	3,076.46	27.48	112.933			
5,500.00	5,461.96	2,300.00	2,300.00	20.46	8.01	-138.27	0.00	-25.00	3,203.94	3,176.07	27.87	114.963			
5,600.00	5,560.74	2,300.00	2,300.00	20.86	8.01	-138.27	0.00	-25.00	3,303.94	3,275.68	28.25	116.937			
5,700.00	5,659.53	2,300.00	2,300.00	21.27	8.01	-138.27	0.00	-25.00	3,403.93	3,375.29	28.64	118.857			
5,800.00	5,758.32	2,300.00	2,300.00	21.67	8.01	-138.27	0.00	-25.00	3,503.93	3,474.91	29.02	120.725			
5,900.00	5,857.11	2,300.00	2,300.00	22.08	8.01	-138.27	0.00	-25.00	3,603.93	3,574.52	29.41	122.543			
6,000.00	5,955.89	2,300.00	2,300.00	22.48	8.01	-138.27	0.00	-25.00	3,703.92	3,674.13	29.80	124.313			
6,100.00	6,054.68	2,300.00	2,300.00	22.89	8.01	-138.27	0.00	-25.00	3,803.92	3,773.74	30.18	126.037			
6,200.00	6,153.47	2,300.00	2,300.00	23.30	8.01	-138.27	0.00	-25.00	3,903.92	3,873.35	30.57	127.717			
6,300.00	6,252.26	2,300.00	2,300.00	23.70	8.01	-138.27	0.00	-25.00	4,003.92	3,972.96	30.95	129.354			
6,400.00	6,351.04	2,300.00	2,300.00	24.11	8.01	-138.27	0.00	-25.00	4,103.92	4,072.58	31.34	130.951			
6,500.00	6,449.83	2,300.00	2,300.00	24.52	8.01	-138.27	0.00	-25.00	4,203.91	4,172.19	31.73	132.507			
6,600.00	6,548.62	2,300.00	2,300.00	24.93	8.01	-138.27	0.00	-25.00	4,303.91	4,271.80	32.11	134.026			
6,700.00	6,647.41	2,300.00	2,300.00	25.33	8.01	-138.27	0.00	-25.00	4,403.91	4,371.41	32.50	135.508			
6,800.00	6,746.19	2,300.00	2,300.00	25.74	8.01	-138.27	0.00	-25.00	4,503.91	4,471.02	32.89	136.954			
6,900.00	6,844.98	2,300.00	2,300.00	26.15	8.01	-138.27	0.00	-25.00	4,603.91	4,570.63	33.27	138.366			
7,000.00	6,943.77	2,300.00	2,300.00	26.56	8.01	-138.27	0.00	-25.00	4,703.90	4,670.24	33.66	139.745			
7,100.00	7,042.56	2,300.00	2,300.00	26.97	8.01	-138.27	0.00	-25.00	4,803.90	4,769.86	34.05	141.092			
7,200.00	7,141.34	2,300.00	2,300.00	27.38	8.01	-138.27	0.00	-25.00	4,903.90	4,869.47	34.44	142.409			
7,300.00	7,240.13	2,300.00	2,300.00	27.79	8.01	-138.27	0.00	-25.00	5,003.90	4,969.08	34.82	143.696			
7,400.00	7,338.92	2,300.00	2,300.00	28.20	8.01	-138.27	0.00	-25.00	5,103.90	5,068.69	35.21	144.954			
7,500.00	7,437.71	2,300.00	2,300.00	28.60	8.01	-138.27	0.00	-25.00	5,203.90	5,168.30	35.60	146.184			
7,600.00	7,536.49	2,300.00	2,300.00	29.01	8.01	-138.27	0.00	-25.00	5,303.90	5,267.91	35.99	147.387			
7,700.00	7,635.28	2,300.00	2,300.00	29.42	8.01	-138.27	0.00	-25.00	5,403.90	5,367.52	36.37	148.564			
7,800.00	7,734.07	2,300.00	2,300.00	29.83	8.01	-138.27	0.00	-25.00	5,503.89	5,467.13	36.76	149.716			
7,900.00	7,832.86	2,300.00	2,300.00	30.24	8.01	-138.27	0.00	-25.00	5,603.89	5,566.74	37.15	150.844			
8,000.00	7,931.64	2,300.00	2,300.00	30.65	8.01	-138.27	0.00	-25.00	5,703.89	5,666.35	37.54	151.948			
8,100.00	8,030.44	2,300.00	2,300.00	31.06	8.01	-161.71	0.00	-25.00	5,803.89	5,766.57	37.92	155.507			
8,200.00	8,129.55	2,300.00	2,300.00	31.46	8.01	-176.13	0.00	-25.00	5,903.85	5,866.23	37.62	156.952			
8,300.00	8,229.07	2,300.00	2,300.00	31.84	8.01	-177.86	0.00	-25.00	6,003.66	5,965.67	37.99	158.020			
8,400.00	8,328.87	2,300.00	2,300.00	32.03	8.01	-178.52	0.00	-25.00	6,103.21	6,065.07	38.14	160.006			
8,500.00	8,428.82	2,300.00	2,300.00	32.05	8.01	-178.88	0.00	-25.00	6,202.40	6,164.33	38.07	162.911			
8,600.00	8,528.65	2,300.00	2,300.00	32.05	8.01	-29.37	0.00	-25.00	6,300.69	6,262.88	37.81	166.634			
8,700.00	8,626.35	2,300.00	2,300.00	32.01	8.01	-17.48	0.00	-25.00	6,395.44	6,358.85	36.59	174.807			
8,800.00	8,718.96	2,300.00	2,300.00	31.94	8.01	-12.53	0.00	-25.00	6,483.94	6,449.72	34.22	189.486			
8,900.00	8,803.68	2,300.00	2,300.00	31.85	8.01	-9.93	0.00	-25.00	6,563.81	6,532.89	30.93	212.245			
9,000.00	8,877.93	2,300.00	2,300.00	31.77	8.01	-8.40	0.00	-25.00	6,632.98	6,606.05	26.93	246.269			
9,100.00	8,939.44	2,300.00	2,300.00	31.70	8.01	-7.45	0.00	-25.00	6,689.70	6,667.15	22.55	296.674			
9,200.00	8,986.37	2,300.00	2,300.00	31.66	8.01	-6.86	0.00	-25.00	6,732.59	6,714.33	18.26	368.792			
9,300.00	9,017.26	2,300.00	2,300.00	31.71	8.01	-6.51	0.00	-25.00	6,760.61	6,745.71	14.90	453.730			
9,400.00	9,031.20	2,300.00	2,300.00	32.26	8.01	-6.37	0.00	-25.00	6,773.10	6,759.38	13.72	493.583			
9,500.00	9,032.00	2,300.00	2,300.00	33.25	8.01	-6.37	0.00	-25.00	6,773.89	6,759.74	14.16	478.549			
9,600.00	9,032.00	2,300.00	2,300.00	34.46	8.01	-6.39	0.00	-25.00	6,775.00	6,760.49	14.51	466.805			
9,700.00	9,032.00	2,300.00	2,300.00	35.84	8.01	-6.43	0.00	-25.00	6,777.20	6,762.28	14.92	454.181			
9,800.00	9,032.00	2,300.00	2,300.00	37.38	8.01	-6.50	0.00	-25.00	6,780.48	6,765.10	15.38	440.976			
9,900.00	9,032.00	2,300.00	2,300.00	39.05	8.01	-6.55	0.00	-25.00	6,784.86	6,769.00	15.86	427.758			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Scientific Drilling Int.

Anticollision Report

Company: WPX Energy
Project: Eddy County, New Mexico NAD 83

Local Co-ordinate Reference: Well C 17 State 1H
TVD Reference: GL 3154 + KB 33 = @ 3187.00usft (Nabors X31)

Reference Site: C 17 State Pad

MD Reference: GL 3154 + KB 33 = @ 3187.00usft (Nabors X31)

Site Error: 0.00 usft

North Reference: Grid

Reference Well: C 17 State 1H

Survey Calculation Method: Minimum Curvature

Well Error: 0.00 usft

Output errors are at 2.00 sigma

Reference Wellbore Wellbore #1

Database: Midland District

Reference Design: Plan #1

Offset TVD Reference: Offset Datum

Offset Design C 17 State Pad - C 17 State FUTURE 5H - Wellbore #1 - Plan #1 FUTURE														Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HDGM														Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
10,000.00	9,032.00	2,300.00	2,300.00	40.84	8.01	-6.55	0.00	-25.00	6,790.63	6,774.27	16.36	414.973			
10,100.00	9,032.00	2,300.00	2,300.00	42.74	8.01	-6.55	0.00	-25.00	6,797.88	6,780.98	16.90	402.268			
10,200.00	9,032.00	2,300.00	2,300.00	44.74	8.01	-6.55	0.00	-25.00	6,806.58	6,789.12	17.46	389.783			
10,300.00	9,032.00	2,300.00	2,300.00	46.83	8.01	-6.55	0.00	-25.00	6,816.74	6,798.69	18.05	377.624			
10,400.00	9,032.00	2,300.00	2,300.00	48.99	8.01	-6.55	0.00	-25.00	6,828.34	6,809.68	18.66	365.864			
10,500.00	9,032.00	2,300.00	2,300.00	51.22	8.01	-6.55	0.00	-25.00	6,841.39	6,822.10	19.30	354.553			
10,600.00	9,032.00	2,300.00	2,300.00	53.51	8.01	-6.55	0.00	-25.00	6,855.88	6,835.93	19.95	343.721			
10,700.00	9,032.00	2,300.00	2,300.00	55.85	8.01	-6.55	0.00	-25.00	6,871.79	6,851.18	20.61	333.382			
10,800.00	9,032.00	2,300.00	2,300.00	58.23	8.01	-6.55	0.00	-25.00	6,889.11	6,867.82	21.29	323.539			
10,900.00	9,032.00	2,300.00	2,300.00	60.65	8.01	-6.55	0.00	-25.00	6,907.84	6,885.85	21.99	314.186			
11,000.00	9,032.00	2,300.00	2,300.00	63.11	8.01	-6.55	0.00	-25.00	6,927.96	6,905.27	22.69	305.312			
11,100.00	9,032.00	2,300.00	2,300.00	65.60	8.01	-6.55	0.00	-25.00	6,949.46	6,926.06	23.41	296.900			
11,200.00	9,032.00	2,300.00	2,300.00	68.12	8.01	-6.55	0.00	-25.00	6,972.33	6,948.20	24.13	288.933			
11,300.00	9,032.00	2,300.00	2,300.00	70.67	8.01	-6.55	0.00	-25.00	6,996.56	6,971.69	24.86	281.390			
11,400.00	9,032.00	2,300.00	2,300.00	73.23	8.01	-6.55	0.00	-25.00	7,022.12	6,996.52	25.60	274.250			
11,500.00	9,032.00	2,300.00	2,300.00	75.82	8.01	-6.55	0.00	-25.00	7,049.02	7,022.66	26.35	267.492			
11,600.00	9,032.00	2,300.00	2,300.00	78.42	8.01	-6.55	0.00	-25.00	7,077.22	7,050.11	27.11	261.096			
11,700.00	9,032.00	2,300.00	2,300.00	81.04	8.01	-6.55	0.00	-25.00	7,106.72	7,078.85	27.87	255.039			
11,800.00	9,032.00	2,300.00	2,300.00	83.68	8.01	-6.55	0.00	-25.00	7,137.49	7,108.86	28.63	249.304			
11,900.00	9,032.00	2,300.00	2,300.00	86.33	8.01	-6.55	0.00	-25.00	7,169.53	7,140.13	29.40	243.871			
12,000.00	9,032.00	2,300.00	2,300.00	88.99	8.01	-6.55	0.00	-25.00	7,202.82	7,172.64	30.17	238.721			
12,100.00	9,032.00	2,300.00	2,300.00	91.66	8.01	-6.55	0.00	-25.00	7,237.33	7,206.38	30.95	233.839			
12,200.00	9,032.00	2,300.00	2,300.00	94.35	8.01	-6.55	0.00	-25.00	7,273.06	7,241.33	31.73	229.208			
12,300.00	9,032.00	2,300.00	2,300.00	97.04	8.01	-6.55	0.00	-25.00	7,309.98	7,277.46	32.52	224.813			
12,400.00	9,032.00	2,300.00	2,300.00	99.74	8.01	-6.55	0.00	-25.00	7,348.07	7,314.77	33.30	220.639			
12,500.00	9,032.00	2,300.00	2,300.00	102.45	8.01	-6.55	0.00	-25.00	7,387.32	7,353.23	34.09	216.674			
12,600.00	9,032.00	2,300.00	2,300.00	105.17	8.01	-6.55	0.00	-25.00	7,427.71	7,392.83	34.89	212.905			
12,700.00	9,032.00	2,300.00	2,300.00	107.89	8.01	-6.55	0.00	-25.00	7,469.23	7,433.54	35.68	209.321			
12,800.00	9,032.00	2,300.00	2,300.00	110.62	8.01	-6.55	0.00	-25.00	7,511.84	7,475.36	36.48	205.910			
12,900.00	9,032.00	2,300.00	2,300.00	113.36	8.01	-6.55	0.00	-25.00	7,555.54	7,518.25	37.28	202.662			
13,000.00	9,032.00	2,300.00	2,300.00	116.10	8.01	-6.55	0.00	-25.00	7,600.30	7,562.21	38.08	199.569			
13,100.00	9,032.00	2,300.00	2,300.00	118.85	8.01	-6.55	0.00	-25.00	7,646.10	7,607.22	38.89	196.620			
13,200.00	9,032.00	2,300.00	2,300.00	121.60	8.01	-6.55	0.00	-25.00	7,692.94	7,653.24	39.69	193.809			
13,300.00	9,032.00	2,300.00	2,300.00	124.36	8.01	-6.55	0.00	-25.00	7,740.78	7,700.28	40.50	191.126			
13,400.00	9,032.00	2,300.00	2,300.00	127.12	8.01	-6.55	0.00	-25.00	7,789.61	7,748.30	41.31	188.566			
13,500.00	9,032.00	2,300.00	2,300.00	129.88	8.01	-6.55	0.00	-25.00	7,839.42	7,797.30	42.12	186.120			
13,600.00	9,032.00	2,300.00	2,300.00	132.65	8.01	-6.55	0.00	-25.00	7,890.18	7,847.24	42.93	183.783			
13,700.00	9,032.00	2,300.00	2,300.00	135.42	8.01	-6.55	0.00	-25.00	7,941.87	7,898.12	43.74	181.549			
13,800.00	9,032.00	2,300.00	2,300.00	138.19	8.01	-6.55	0.00	-25.00	7,994.48	7,949.92	44.56	179.413			
13,900.00	9,032.00	2,300.00	2,300.00	140.97	8.01	-6.55	0.00	-25.00	8,047.98	8,002.61	45.37	177.368			
14,000.00	9,032.00	2,300.00	2,300.00	143.75	8.01	-6.55	0.00	-25.00	8,102.37	8,056.18	46.19	175.411			
14,100.00	9,032.00	2,300.00	2,300.00	146.53	8.01	-6.55	0.00	-25.00	8,157.62	8,110.62	47.01	173.536			
14,107.04	9,032.00	2,300.00	2,300.00	146.73	8.01	-6.55	0.00	-25.00	8,161.54	8,114.48	47.07	173.407			

Scientific Drilling Int.

Anticollision Report

Company: WPX Energy
Project: Eddy County, New Mexico NAD 83
Reference Site: C 17 State Pad
Site Error: 0.00 usft
Reference Well: C 17 State 1H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Plan #1

Local Co-ordinate Reference: Well C 17 State 1H
TVD Reference: GL 3154 + KB 33 = @ 3187.00usft (Nabors X31)
MD Reference: GL 3154 + KB 33 = @ 3187.00usft (Nabors X31)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: Midland District
Offset TVD Reference: Offset Datum

Offset Design C 17 State Pad - Cass 16 St. 1H - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft
Survey Program: 100-MWD, 480-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	15.09	865.81	233.44	896.72					
100.00	100.00	93.08	93.08	0.12	0.13	15.11	866.09	233.85	897.14	896.90	0.24	3,746.063		
200.00	200.00	182.80	182.78	0.48	0.43	15.15	867.12	234.81	898.53	897.62	0.90	993.705		
300.00	300.00	267.22	267.17	0.84	0.73	15.21	869.16	236.23	901.31	899.74	1.57	575.200		
400.00	400.00	352.51	352.35	1.20	1.04	15.31	872.47	238.89	905.86	903.63	2.24	405.278		
500.00	500.00	443.34	443.00	1.55	1.25	15.47	876.93	242.63	911.69	908.90	2.80	326.124		
600.00	600.00	559.56	558.98	1.91	1.41	15.62	882.85	246.88	917.66	914.34	3.32	276.226		
700.00	700.00	706.51	705.88	2.27	1.67	15.68	885.25	248.44	919.47	915.53	3.94	233.575		
800.00	800.00	812.38	811.75	2.63	1.92	15.69	884.29	248.34	918.57	914.02	4.55	202.025		
900.00	900.00	917.20	916.55	2.99	2.19	15.72	882.60	248.46	917.04	911.87	5.17	177.244		
1,000.00	1,000.00	1,020.17	1,019.50	3.35	2.48	15.77	880.47	248.73	915.13	909.30	5.83	156.950		
1,100.00	1,100.00	1,120.26	1,119.56	3.70	2.79	15.84	878.10	249.20	912.98	906.48	6.49	140.591		
1,200.00	1,200.00	1,218.13	1,217.40	4.06	3.10	15.95	875.80	250.24	911.01	903.84	7.16	127.201		
1,300.00	1,300.00	1,315.05	1,314.29	4.42	3.42	16.06	873.72	251.52	909.30	901.47	7.84	116.053		
1,400.00	1,400.00	1,411.56	1,410.79	4.78	3.73	16.11	872.26	251.97	907.98	899.47	8.51	106.678		
1,500.00	1,500.00	1,508.35	1,507.57	5.14	4.06	16.15	871.21	252.27	907.03	897.83	9.19	98.658		
1,600.00	1,600.00	1,605.17	1,604.37	5.50	4.39	16.28	870.05	254.16	906.42	896.54	9.88	91.766		
1,700.00	1,700.00	1,703.23	1,702.39	5.86	4.71	16.44	869.07	256.42	906.12	895.55	10.56	85.780		
1,800.00	1,800.00	1,803.00	1,802.16	6.21	5.04	16.46	868.86	256.76	906.00	894.75	11.25	80.504		
1,900.00	1,900.00	1,909.45	1,908.61	6.57	5.40	16.43	868.56	256.05	905.55	893.58	11.97	75.644		
2,000.00	2,000.00	2,011.74	2,010.89	6.93	5.75	16.40	867.42	255.37	904.29	891.62	12.67	71.346		
2,100.00	2,100.00	2,101.17	2,100.31	7.29	6.05	-29.61	867.40	254.17	903.68	890.35	13.34	67.760		
2,200.00	2,199.95	2,216.13	2,215.25	7.64	6.44	-29.88	867.70	252.18	900.97	886.90	14.07	64.050		
2,300.00	2,299.74	2,330.91	2,329.95	8.00	6.83	-30.36	865.00	248.77	892.22	877.42	14.79	60.318		
2,400.00	2,399.24	2,427.79	2,426.75	8.35	7.17	-30.96	862.68	245.56	880.48	865.04	15.44	57.008		
2,500.00	2,498.33	2,526.68	2,525.55	8.71	7.51	-31.74	860.43	242.33	865.99	849.90	16.09	53.812		
2,600.00	2,597.12	2,625.21	2,624.00	9.07	7.86	-32.49	858.12	239.00	849.73	832.95	16.79	50.621		
2,700.00	2,695.91	2,722.42	2,721.13	9.44	8.20	-33.23	855.87	235.72	833.62	816.14	17.49	47.675		
2,800.00	2,794.70	2,819.38	2,818.00	9.81	8.54	-34.02	853.79	232.28	817.79	799.60	18.19	44.966		
2,900.00	2,893.48	2,910.23	2,908.81	10.18	8.86	-34.73	852.09	229.94	802.58	783.71	18.87	42.530		
3,000.00	2,992.27	3,008.88	3,007.45	10.56	9.21	-35.39	850.44	229.30	788.06	768.47	19.59	40.238		
3,100.00	3,091.06	3,106.97	3,105.51	10.94	9.56	-36.05	848.66	228.97	773.56	753.26	20.30	38.107		
3,200.00	3,189.85	3,207.13	3,205.66	11.32	9.91	-36.76	846.81	228.49	759.12	738.10	21.03	36.105		
3,300.00	3,288.63	3,307.83	3,306.33	11.71	10.27	-37.53	844.72	227.68	744.53	722.77	21.76	34.223		
3,400.00	3,387.42	3,405.53	3,404.00	12.09	10.61	-38.20	842.43	228.02	729.95	707.48	22.47	32.480		
3,500.00	3,486.21	3,500.92	3,499.37	12.48	10.95	-38.87	840.44	228.67	715.79	692.60	23.19	30.872		
3,600.00	3,585.00	3,598.38	3,596.82	12.87	11.30	-39.63	838.78	228.76	702.04	678.13	23.91	29.363		
3,700.00	3,683.78	3,697.58	3,696.00	13.26	11.65	-40.43	837.11	228.89	688.43	663.79	24.64	27.938		
3,800.00	3,782.57	3,796.11	3,794.52	13.65	12.00	-41.24	835.40	229.07	674.92	649.55	25.37	26.600		
3,900.00	3,881.36	3,894.59	3,892.99	14.05	12.35	-42.11	833.74	229.15	661.59	635.49	26.11	25.341		
4,000.00	3,980.15	3,993.30	3,991.67	14.44	12.70	-43.00	832.03	229.26	648.37	621.53	26.85	24.152		
4,100.00	4,078.93	4,091.54	4,089.90	14.84	13.05	-43.96	830.44	229.03	635.41	607.83	27.58	23.035		
4,200.00	4,177.72	4,189.96	4,188.31	15.23	13.40	-44.99	828.79	228.50	622.58	594.25	28.33	21.979		
4,300.00	4,276.51	4,287.80	4,286.14	15.63	13.75	-46.06	827.32	227.81	610.12	581.05	29.07	20.988		
4,400.00	4,375.30	4,385.84	4,384.16	16.03	14.10	-47.18	825.85	227.19	597.90	568.08	29.82	20.053		
4,500.00	4,474.08	4,483.55	4,481.86	16.43	14.45	-48.33	824.58	226.65	586.10	555.53	30.56	19.176		
4,600.00	4,572.87	4,581.27	4,579.57	16.83	14.80	-49.54	823.38	225.92	574.64	543.33	31.31	18.351		
4,700.00	4,671.66	4,678.68	4,676.97	17.23	15.15	-50.79	822.40	225.25	563.66	531.60	32.06	17.579		
4,800.00	4,770.45	4,777.07	4,775.36	17.63	15.50	-52.12	821.54	224.44	553.12	520.29	32.82	16.852		
4,900.00	4,869.23	4,875.25	4,873.53	18.03	15.85	-53.48	820.69	223.68	542.88	509.30	33.58	16.166		
5,000.00	4,968.02	4,973.14	4,971.41	18.44	16.19	-54.90	819.97	222.82	533.11	498.76	34.34	15.524		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Scientific Drilling Int.

Anticollision Report

Company: WPX Energy
Project: Eddy County, New Mexico NAD 83
Reference Site: C 17 State Pad
Site Error: 0.00 usft
Reference Well: C 17 State 1H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Plan #1

Local Co-ordinate Reference: Well C 17 State 1H
TVD Reference: GL 3154 + KB 33 = @ 3187.00usft (Nabors X31)
MD Reference: GL 3154 + KB 33 = @ 3187.00usft (Nabors X31)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: Midland District
Offset TVD Reference: Offset Datum

Offset Design C 17 State Pad - Cass 16 St. 1H - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft
Survey Program: 100-MWD, 480-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	5,066.81	5,073.20	5,071.46	18.84	16.55	-56.39	819.22	222.09	523.65	488.54	35.11	14.914		
5,200.00	5,165.59	5,171.97	5,170.23	19.24	16.90	-57.90	818.26	221.48	514.32	478.43	35.88	14.334		
5,300.00	5,264.38	5,270.04	5,268.30	19.65	17.25	-59.45	817.40	220.94	505.43	468.78	36.65	13.790		
5,400.00	5,363.17	5,368.57	5,366.82	20.05	17.61	-61.06	816.60	220.40	497.00	459.57	37.42	13.281		
5,500.00	5,461.96	5,465.63	5,463.88	20.46	17.95	-62.70	815.94	219.74	489.13	450.94	38.19	12.808		
5,600.00	5,560.74	5,562.35	5,560.59	20.86	18.29	-64.37	815.67	219.12	482.07	443.11	38.96	12.375		
5,700.00	5,659.53	5,659.65	5,657.89	21.27	18.63	-66.08	815.76	218.51	475.79	436.07	39.72	11.979		
5,800.00	5,758.32	5,759.20	5,757.43	21.67	18.98	-67.92	815.79	217.48	470.06	429.57	40.49	11.609		
5,900.00	5,857.11	5,862.40	5,860.62	22.08	19.34	-69.96	814.93	216.04	464.19	422.90	41.29	11.243		
6,000.00	5,955.89	5,964.00	5,962.20	22.48	19.71	-72.01	813.50	214.95	458.23	416.15	42.08	10.890		
6,100.00	6,054.68	6,065.46	6,063.62	22.89	20.07	-74.17	810.79	213.96	451.70	408.83	42.87	10.536		
6,200.00	6,153.47	6,158.50	6,156.65	23.30	20.40	-76.16	809.10	213.05	446.55	402.92	43.63	10.235		
6,300.00	6,252.26	6,254.97	6,253.11	23.70	20.75	-78.16	808.35	212.41	442.73	398.33	44.40	9.972		
6,400.00	6,351.04	6,352.88	6,351.02	24.11	21.10	-80.19	808.07	211.81	439.87	394.70	45.17	9.739		
6,500.00	6,449.83	6,452.98	6,451.12	24.52	21.45	-82.28	807.70	211.30	437.47	391.53	45.94	9.522		
6,600.00	6,548.62	6,553.81	6,551.95	24.93	21.80	-84.34	807.28	211.42	435.23	388.51	46.71	9.317		
6,700.00	6,647.41	6,654.61	6,652.73	25.33	22.16	-86.47	806.22	211.53	433.08	385.60	47.48	9.121		
6,800.00	6,746.19	6,753.62	6,751.74	25.74	22.50	-88.50	805.35	212.38	431.15	382.92	48.23	8.939		
6,900.00	6,844.98	6,852.25	6,850.36	26.15	22.84	-90.45	805.05	213.66	429.87	380.90	48.97	8.778		
7,000.00	6,943.77	6,951.16	6,949.25	26.56	23.17	-92.31	805.22	215.44	429.08	379.37	49.71	8.632		
7,087.54	7,030.24	7,037.21	7,035.29	26.92	23.46	-93.92	805.56	217.08	428.83	378.48	50.35	8.518		
7,100.00	7,042.56	7,049.43	7,047.51	26.97	23.50	-94.14	805.61	217.30	428.83	378.40	50.44	8.503		
7,200.00	7,141.34	7,147.92	7,145.98	27.38	23.83	-96.00	806.01	218.94	429.22	378.06	51.16	8.390		
7,300.00	7,240.13	7,243.94	7,241.99	27.79	24.15	-97.82	806.46	220.15	430.41	378.54	51.87	8.297		
7,400.00	7,338.92	7,339.49	7,337.54	28.20	24.47	-99.67	807.08	220.55	432.86	380.28	52.58	8.233		
7,500.00	7,437.71	7,435.42	7,433.47	28.60	24.79	-101.55	807.86	220.20	436.53	383.24	53.28	8.193		
7,600.00	7,536.49	7,532.05	7,530.08	29.01	25.12	-103.44	808.71	219.22	441.27	387.28	53.99	8.173		
7,700.00	7,635.28	7,631.87	7,629.89	29.42	25.46	-105.36	809.57	218.02	446.67	391.97	54.70	8.165		
7,800.00	7,734.07	7,727.00	7,725.00	29.83	25.79	-107.03	811.39	217.14	452.82	397.42	55.40	8.174		
7,900.00	7,832.86	7,840.45	7,838.43	30.24	26.17	-108.88	813.49	217.71	458.06	401.92	56.14	8.159		
8,000.00	7,931.64	7,945.07	7,943.00	30.65	26.52	-110.50	814.67	220.51	461.42	404.56	56.86	8.115		
8,100.00	8,030.44	8,043.60	8,041.48	31.06	26.85	-112.02	815.58	223.47	464.72	407.17	57.56	8.074		
8,200.00	8,129.55	8,141.61	8,139.47	31.46	27.19	-113.46	815.37	225.64	467.74	409.47	58.27	8.027		
8,300.00	8,229.07	8,240.54	8,238.38	31.84	27.53	-114.59	814.60	227.40	469.79	410.82	58.97	7.967		
8,400.00	8,328.87	8,338.34	8,336.17	32.03	27.87	-115.29	813.91	228.96	470.70	411.21	59.48	7.913		
8,500.00	8,428.82	8,434.49	8,432.31	32.05	28.20	-115.61	813.46	229.87	470.85	411.05	59.81	7.873		
8,600.00	8,528.65	8,531.79	8,529.61	32.05	28.53	11.54	813.71	230.27	466.46	406.85	59.61	7.825		
8,700.00	8,628.35	8,628.63	8,626.44	32.01	28.86	12.63	814.53	230.56	446.19	388.26	57.93	7.703		
8,800.00	8,718.96	8,721.19	8,719.00	31.94	29.17	14.89	815.53	230.84	409.84	354.88	54.96	7.457		
8,900.00	8,803.68	8,806.38	8,804.18	31.85	29.46	19.04	816.28	231.09	358.66	307.39	51.27	6.995		
9,000.00	8,877.93	8,880.94	8,878.74	31.77	29.71	26.81	816.89	231.44	294.77	246.35	48.43	6.087		
9,100.00	8,939.44	8,942.34	8,940.14	31.70	29.92	41.61	817.38	231.81	221.84	171.70	50.14	4.424		
9,200.00	8,986.37	8,988.82	8,986.61	31.66	30.08	65.72	817.80	232.18	147.62	89.68	57.94	2.548		
9,300.00	9,017.26	9,019.27	9,017.05	31.71	30.18	87.51	818.07	232.82	98.63	36.93	61.71	1.598		
9,315.74	9,020.60	9,022.11	9,019.89	31.73	30.19	89.28	818.09	232.91	97.41	35.59	61.82	1.576 CC, ES, SF		
9,400.00	9,031.20	9,029.38	9,027.16	32.26	30.22	89.92	818.13	233.19	128.47	66.03	62.45	2.057		
9,500.00	9,032.00	9,026.62	9,024.40	33.25	30.21	85.07	818.12	233.08	208.26	144.87	63.39	3.285		
9,600.00	9,032.00	9,023.55	9,021.33	34.46	30.20	82.56	818.10	232.97	301.38	237.03	64.35	4.683		
9,700.00	9,032.00	9,020.82	9,018.60	35.84	30.19	79.31	818.08	232.87	398.57	333.35	65.22	6.111		
9,800.00	9,032.00	9,018.38	9,016.17	37.38	30.18	74.31	818.06	232.79	497.38	431.79	65.59	7.583		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Scientific Drilling Int.

Anticollision Report

Company: WPX Energy
Project: Eddy County, New Mexico NAD 83

Local Co-ordinate Reference: Well C 17 State 1H
TVD Reference: GL 3154 + KB 33 = @ 3187.00usft (Nabors X31)

Reference Site: C 17 State Pad

MD Reference: GL 3154 + KB 33 = @ 3187.00usft (Nabors X31)

Site Error: 0.00 usft

North Reference: Grid

Reference Well: C 17 State 1H

Survey Calculation Method: Minimum Curvature

Well Error: 0.00 usft

Output errors are at 2.00 sigma

Reference Wellbore Wellbore #1

Database: Midland District

Reference Design: Plan #1

Offset TVD Reference: Offset Datum

Offset Design C 17 State Pad - Cass 16 St. 1H - Wellbore #1 - Wellbore #1												Offset Site Error:	0.00 usft
Survey Program: 100-MWD, 480-MWD												Offset Well Error:	0.00 usft
Offset				Semi Major Axis			Distance					Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)		Separation Factor
9,900.00	9,032.00	9,016.20	9,013.98	39.05	30.17	68.30	818.04	232.72	596.89	531.67	65.22	9.151	
10,000.00	9,032.00	9,014.23	9,012.01	40.84	30.17	66.23	818.03	232.66	696.59	630.54	66.04	10.547	
10,100.00	9,032.00	9,012.45	9,010.24	42.74	30.16	64.42	818.01	232.61	796.35	729.39	66.96	11.892	
10,200.00	9,032.00	9,010.84	9,008.63	44.74	30.16	62.82	818.00	232.57	896.16	828.19	67.97	13.184	
10,300.00	9,032.00	9,009.38	9,007.17	46.83	30.15	61.40	817.99	232.53	996.01	926.94	69.07	14.421	
10,400.00	9,032.00	9,008.04	9,005.83	48.99	30.15	60.14	817.98	232.50	1,095.88	1,025.64	70.24	15.602	
10,500.00	9,032.00	9,006.81	9,004.60	51.22	30.14	59.01	817.97	232.47	1,195.77	1,124.29	71.47	16.730	
10,600.00	9,032.00	9,005.67	9,003.46	53.51	30.14	57.98	817.96	232.44	1,295.67	1,222.90	72.77	17.805	
10,700.00	9,032.00	9,004.62	9,002.41	55.85	30.13	57.06	817.95	232.42	1,395.59	1,321.47	74.12	18.828	
10,800.00	9,032.00	9,003.65	9,001.44	58.23	30.13	56.22	817.94	232.40	1,495.51	1,419.99	75.52	19.803	
10,900.00	9,032.00	8,990.00	8,987.79	60.65	30.08	46.00	817.81	232.19	1,595.56	1,526.70	68.87	23.169	
11,000.00	9,032.00	8,990.00	8,987.79	63.11	30.08	46.00	817.81	232.19	1,695.49	1,624.82	70.67	23.991	
11,100.00	9,032.00	8,990.00	8,987.79	65.60	30.08	46.00	817.81	232.19	1,795.42	1,722.92	72.50	24.765	
11,200.00	9,032.00	8,990.00	8,987.79	68.12	30.08	46.00	817.81	232.19	1,895.36	1,821.01	74.35	25.492	
11,300.00	9,032.00	8,990.00	8,987.79	70.67	30.08	46.00	817.81	232.19	1,995.30	1,919.08	76.22	26.178	
11,400.00	9,032.00	8,990.00	8,987.79	73.23	30.08	46.00	817.81	232.19	2,095.25	2,017.14	78.11	26.824	
11,500.00	9,032.00	8,990.00	8,987.79	75.82	30.08	46.00	817.81	232.19	2,195.21	2,115.19	80.02	27.434	
11,600.00	9,032.00	8,990.00	8,987.79	78.42	30.08	46.00	817.81	232.19	2,295.17	2,213.23	81.94	28.011	
11,700.00	9,032.00	8,990.00	8,987.79	81.04	30.08	46.00	817.81	232.19	2,395.13	2,311.26	83.87	28.557	
11,800.00	9,032.00	8,990.00	8,987.79	83.68	30.08	46.00	817.81	232.19	2,495.09	2,409.27	85.82	29.074	
11,900.00	9,032.00	8,990.00	8,987.79	86.33	30.08	46.00	817.81	232.19	2,595.06	2,507.28	87.78	29.564	
12,000.00	9,032.00	8,990.00	8,987.79	88.99	30.08	46.00	817.81	232.19	2,695.03	2,605.29	89.75	30.030	
12,100.00	9,032.00	8,990.00	8,987.79	91.66	30.08	46.00	817.81	232.19	2,795.01	2,703.28	91.72	30.472	
12,200.00	9,032.00	8,990.00	8,987.79	94.35	30.08	46.00	817.81	232.19	2,894.98	2,801.27	93.71	30.893	
12,300.00	9,032.00	8,990.00	8,987.79	97.04	30.08	46.00	817.81	232.19	2,994.96	2,899.25	95.70	31.294	
12,400.00	9,032.00	8,990.00	8,987.79	99.74	30.08	46.00	817.81	232.19	3,094.93	2,997.23	97.70	31.677	
12,500.00	9,032.00	8,990.00	8,987.79	102.45	30.08	46.00	817.81	232.19	3,194.91	3,095.20	99.71	32.042	
12,600.00	9,032.00	8,990.00	8,987.79	105.17	30.08	46.00	817.81	232.19	3,294.89	3,193.17	101.72	32.390	
12,700.00	9,032.00	8,990.00	8,987.79	107.89	30.08	46.00	817.81	232.19	3,394.87	3,291.13	103.74	32.724	
12,800.00	9,032.00	8,990.00	8,987.79	110.62	30.08	46.00	817.81	232.19	3,494.86	3,389.09	105.77	33.042	
12,900.00	9,032.00	8,990.00	8,987.79	113.36	30.08	46.00	817.81	232.19	3,594.84	3,487.04	107.80	33.348	
13,000.00	9,032.00	8,990.00	8,987.79	116.10	30.08	46.00	817.81	232.19	3,694.82	3,584.99	109.83	33.641	
13,100.00	9,032.00	8,990.00	8,987.79	118.85	30.08	46.00	817.81	232.19	3,794.81	3,682.94	111.87	33.922	
13,200.00	9,032.00	8,990.00	8,987.79	121.60	30.08	46.00	817.81	232.19	3,894.80	3,780.88	113.91	34.191	
13,300.00	9,032.00	8,990.00	8,987.79	124.36	30.08	46.00	817.81	232.19	3,994.78	3,878.82	115.96	34.450	
13,400.00	9,032.00	8,990.00	8,987.79	127.12	30.08	46.00	817.81	232.19	4,094.77	3,976.76	118.01	34.699	
13,500.00	9,032.00	8,990.00	8,987.79	129.88	30.08	46.00	817.81	232.19	4,194.76	4,074.70	120.06	34.939	
13,600.00	9,032.00	8,990.00	8,987.79	132.65	30.08	46.00	817.81	232.19	4,294.75	4,172.63	122.12	35.170	
13,700.00	9,032.00	8,990.00	8,987.79	135.42	30.08	46.00	817.81	232.19	4,394.74	4,270.56	124.17	35.392	
13,800.00	9,032.00	8,990.00	8,987.79	138.19	30.08	46.00	817.81	232.19	4,494.72	4,368.49	126.23	35.606	
13,900.00	9,032.00	8,990.00	8,987.79	140.97	30.08	46.00	817.81	232.19	4,594.71	4,466.42	128.30	35.813	
14,000.00	9,032.00	8,990.00	8,987.79	143.75	30.08	46.00	817.81	232.19	4,694.71	4,564.34	130.36	36.012	
14,100.00	9,032.00	8,990.00	8,987.79	146.53	30.08	46.00	817.81	232.19	4,794.70	4,662.26	132.43	36.205	
14,107.04	9,032.00	8,990.00	8,987.79	146.73	30.08	46.00	817.81	232.19	4,801.73	4,669.16	132.58	36.218	

Scientific Drilling Int.

Anticollision Report

Company: WPX Energy
Project: Eddy County, New Mexico NAD 83
Reference Site: C 17 State Pad
Site Error: 0.00 usft
Reference Well: C 17 State 1H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Plan #1

Local Co-ordinate Reference: Well C 17 State 1H
TVD Reference: GL 3154 + KB 33 = @ 3187.00usft (Nabors X31)
MD Reference: GL 3154 + KB 33 = @ 3187.00usft (Nabors X31)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: Midland District
Offset TVD Reference: Offset Datum

Offset Design C 17 State Pad - Cass 16 St. 2H - Wellbore #1 - As Drilled													Offset Site Error:	0.00 usft
Survey Program: 64-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	1.98	1.98	0.00	0.00	160.38	-453.80	161.74	481.76					
100.00	100.00	102.76	102.76	0.12	0.21	160.39	-453.87	161.69	481.81	481.48	0.33	1,475.578		
200.00	200.00	213.22	213.21	0.48	0.60	160.40	-452.75	161.19	480.72	479.65	1.08	447.096		
300.00	300.00	328.45	328.34	0.84	1.01	160.30	-448.04	160.46	476.63	474.79	1.85	258.277		
400.00	400.00	429.97	429.65	1.20	1.38	160.08	-441.67	160.06	470.59	468.02	2.57	183.044		
500.00	500.00	529.76	529.25	1.55	1.74	159.82	-435.44	160.02	464.71	461.42	3.29	141.168		
600.00	600.00	627.78	627.09	1.91	2.10	159.56	-429.49	160.05	459.03	455.02	4.01	114.526		
700.00	700.00	724.31	723.48	2.27	2.45	159.31	-424.19	160.17	453.93	449.22	4.72	96.207		
800.00	800.00	821.10	820.16	2.63	2.80	159.09	-419.59	160.29	449.53	444.11	5.43	82.814		
900.00	900.00	917.24	916.21	2.99	3.15	158.87	-415.73	160.65	445.92	439.79	6.13	72.694		
1,000.00	1,000.00	1,013.99	1,012.91	3.35	3.50	158.67	-412.67	161.14	443.15	436.31	6.84	64.781		
1,100.00	1,100.00	1,111.85	1,110.74	3.70	3.85	158.53	-410.17	161.33	440.85	433.30	7.55	58.392		
1,200.00	1,200.00	1,206.94	1,205.81	4.06	4.19	158.38	-408.47	161.88	439.39	431.15	8.25	53.286		
1,264.95	1,264.95	1,268.09	1,266.95	4.30	4.40	158.23	-407.80	162.83	439.11	430.42	8.69	50.512		
1,300.00	1,300.00	1,300.67	1,299.52	4.42	4.51	158.13	-407.60	163.59	439.21	430.28	8.93	49.177		
1,400.00	1,400.00	1,394.79	1,393.59	4.78	4.84	157.75	-407.70	166.77	440.57	430.96	9.61	45.832		
1,500.00	1,500.00	1,492.52	1,491.23	5.14	5.17	157.28	-408.19	170.95	442.67	432.36	10.31	42.953		
1,600.00	1,600.00	1,588.29	1,586.83	5.50	5.50	156.66	-408.91	176.45	445.61	434.62	10.99	40.533		
1,700.00	1,700.00	1,685.06	1,683.42	5.86	5.83	156.06	-410.38	182.21	449.39	437.71	11.68	38.460		
1,800.00	1,800.00	1,785.36	1,783.54	6.21	6.17	155.52	-412.59	187.88	453.73	441.34	12.39	36.632		
1,900.00	1,900.00	1,890.26	1,888.34	6.57	6.53	155.16	-414.68	191.95	457.15	444.05	13.10	34.887		
2,000.00	2,000.00	1,994.69	1,992.67	6.93	6.90	154.69	-415.50	196.47	459.70	445.88	13.83	33.247		
2,100.00	2,100.00	2,119.21	2,116.98	7.29	7.35	107.95	-412.18	202.51	459.55	444.92	14.64	31.396		
2,200.00	2,199.95	2,237.61	2,235.14	7.64	7.77	107.99	-404.95	203.03	455.17	439.76	15.41	29.530		
2,300.00	2,299.74	2,346.94	2,344.04	8.00	8.16	108.98	-396.36	198.70	448.36	432.21	16.15	27.764		
2,400.00	2,399.24	2,445.97	2,442.62	8.35	8.51	110.48	-388.47	193.52	442.25	425.41	16.84	26.257		
2,500.00	2,498.33	2,543.20	2,539.42	8.71	8.86	112.36	-380.92	188.46	437.91	420.38	17.53	24.980		
2,600.00	2,597.12	2,644.88	2,640.68	9.07	9.23	114.47	-372.95	183.78	435.07	416.82	18.25	23.845		
2,700.00	2,695.91	2,745.79	2,741.08	9.44	9.60	116.21	-363.12	181.46	431.71	412.74	18.97	22.759		
2,800.00	2,794.70	2,842.21	2,836.96	9.81	9.96	117.53	-353.08	181.97	428.93	409.25	19.68	21.792		
2,900.00	2,893.48	2,941.84	2,936.03	10.18	10.34	118.68	-342.72	184.32	426.90	406.49	20.41	20.912		
3,000.00	2,992.27	3,040.53	3,034.19	10.56	10.71	119.94	-332.61	185.78	424.97	403.83	21.14	20.100		
3,100.00	3,091.06	3,140.58	3,133.73	10.94	11.09	121.28	-322.57	186.97	423.40	401.52	21.88	19.353		
3,200.00	3,189.85	3,238.26	3,230.92	11.32	11.45	122.65	-312.94	187.72	422.13	399.53	22.60	18.676		
3,300.00	3,288.63	3,336.67	3,328.90	11.71	11.82	124.09	-303.67	188.17	421.50	398.17	23.33	18.066		
3,367.15	3,354.97	3,402.59	3,394.53	11.97	12.07	125.05	-297.58	188.59	421.38	397.56	23.82	17.689		
3,400.00	3,387.42	3,434.89	3,426.69	12.09	12.19	125.48	-294.60	189.08	421.41	397.34	24.06	17.514		
3,500.00	3,486.21	3,535.16	3,526.51	12.48	12.57	126.75	-285.27	191.03	421.63	396.83	24.80	17.002		
3,600.00	3,585.00	3,641.27	3,632.06	12.87	12.98	128.24	-274.43	191.92	421.02	395.47	25.56	16.474		
3,700.00	3,683.78	3,740.36	3,730.58	13.26	13.36	129.73	-263.84	191.99	420.14	393.85	26.29	15.982		
3,800.00	3,782.57	3,840.13	3,829.76	13.65	13.74	131.26	-253.02	191.86	419.39	392.37	27.02	15.521		
3,852.71	3,834.64	3,890.91	3,880.25	13.86	13.93	132.07	-247.64	191.63	419.24	391.84	27.40	15.300		
3,900.00	3,881.36	3,938.44	3,927.52	14.05	14.11	132.83	-242.72	191.40	419.29	391.54	27.75	15.111		
3,995.49	3,975.69	4,034.56	4,023.08	14.42	14.48	134.23	-232.26	191.86	419.13	390.67	28.45	14.731 CC		
4,000.00	3,980.15	4,038.89	4,027.38	14.44	14.50	134.29	-231.80	191.89	419.13	390.64	28.48	14.715		
4,100.00	4,078.93	4,134.38	4,122.36	14.84	14.87	135.69	-221.91	192.32	419.76	390.56	29.20	14.374 ES		
4,200.00	4,177.72	4,233.95	4,221.47	15.23	15.25	137.15	-212.40	192.61	421.46	391.53	29.93	14.080		
4,300.00	4,276.51	4,336.34	4,323.29	15.63	15.64	138.53	-201.70	193.90	422.47	391.80	30.67	13.773		
4,400.00	4,375.30	4,432.29	4,418.73	16.03	16.01	139.82	-191.87	195.00	423.94	392.54	31.39	13.504		
4,500.00	4,474.08	4,527.43	4,513.46	16.43	16.37	141.20	-183.07	195.11	426.73	394.63	32.11	13.291		
4,600.00	4,572.87	4,629.91	4,615.53	16.83	16.76	142.70	-173.98	194.95	430.23	397.39	32.85	13.098		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Scientific Drilling Int.

Anticollision Report

Company: WPX Energy
Project: Eddy County, New Mexico NAD 83

Local Co-ordinate Reference: Well C 17 State 1H
TVD Reference: GL 3154 + KB 33 = @ 3187.00usft (Nabors X31)

Reference Site: C 17 State Pad

MD Reference: GL 3154 + KB 33 = @ 3187.00usft (Nabors X31)

Site Error: 0.00 usft

North Reference: Grid

Reference Well: C 17 State 1H

Survey Calculation Method: Minimum Curvature

Well Error: 0.00 usft

Output errors are at 2.00 sigma

Reference Wellbore Wellbore #1

Database: Midland District

Reference Design: Plan #1

Offset TVD Reference: Offset Datum

Offset Design C 17 State Pad - Cass 16 St. 2H - Wellbore #1 - As Drilled													Offset Site Error:	0.00 usft
Survey Program: 64-MWD													Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
4,700.00	4,671.66	4,730.16	4,715.30	17.23	17.14	144.01	-164.17	195.99	432.89	399.31	33.58	12.892		
4,800.00	4,770.45	4,825.51	4,810.25	17.63	17.50	145.21	-155.47	197.11	436.40	402.11	34.29	12.726		
4,900.00	4,869.23	4,925.33	4,909.70	18.03	17.88	146.39	-147.08	198.51	440.76	405.74	35.02	12.585		
5,000.00	4,968.02	5,024.23	5,008.22	18.44	18.26	147.40	-138.79	201.03	445.07	409.32	35.75	12.449		
5,100.00	5,066.81	5,123.26	5,106.89	18.84	18.63	148.45	-130.61	203.07	449.76	413.28	36.48	12.329		
5,200.00	5,165.59	5,218.58	5,201.89	19.24	18.99	149.57	-122.87	203.88	455.05	417.86	37.19	12.235		
5,300.00	5,264.38	5,312.58	5,295.66	19.65	19.34	150.64	-116.25	204.48	461.61	423.71	37.90	12.180		
5,400.00	5,363.17	5,406.88	5,389.79	20.05	19.69	151.66	-110.69	204.95	469.48	430.87	38.61	12.160		
5,500.00	5,461.96	5,515.58	5,498.28	20.46	20.09	152.78	-104.07	205.69	477.29	437.93	39.37	12.125		
5,600.00	5,560.74	5,628.45	5,610.71	20.86	20.52	154.02	-94.13	206.47	482.68	442.54	40.14	12.025		
5,700.00	5,659.53	5,738.65	5,720.10	21.27	20.95	155.44	-80.86	206.48	485.43	444.52	40.91	11.866		
5,800.00	5,758.32	5,839.22	5,819.82	21.67	21.35	156.73	-67.83	206.77	487.49	445.85	41.65	11.706		
5,900.00	5,857.11	5,936.38	5,916.22	22.08	21.73	157.74	-55.93	208.88	489.72	447.35	42.37	11.558		
6,000.00	5,955.89	6,030.25	6,009.51	22.48	22.10	158.56	-45.84	211.62	493.14	450.06	43.08	11.446		
6,100.00	6,054.68	6,126.30	6,105.04	22.89	22.47	159.46	-36.10	213.48	497.65	453.85	43.80	11.361		
6,200.00	6,153.47	6,213.55	6,191.91	23.30	22.80	160.22	-28.08	215.15	503.24	458.75	44.49	11.311		
6,300.00	6,252.26	6,304.34	6,282.57	23.70	23.14	160.90	-23.45	216.06	512.80	467.61	45.19	11.347		
6,400.00	6,351.04	6,424.43	6,402.12	24.11	23.59	162.07	-12.15	216.72	518.73	472.74	46.00	11.278		
6,500.00	6,449.83	6,520.95	6,498.13	24.52	23.97	163.05	-2.32	217.08	524.45	477.73	46.72	11.225		
6,600.00	6,548.62	6,616.75	6,593.50	24.93	24.33	163.95	6.77	217.48	530.90	483.46	47.44	11.191		
6,700.00	6,647.41	6,714.00	6,690.38	25.33	24.70	164.80	15.19	218.04	538.13	489.96	48.17	11.172		
6,800.00	6,746.19	6,810.43	6,786.51	25.74	25.06	165.46	22.55	219.62	545.80	496.91	48.89	11.164		
6,900.00	6,844.98	6,918.77	6,894.48	26.15	25.48	166.31	31.53	220.46	553.48	503.83	49.66	11.146		
7,000.00	6,943.77	7,037.55	7,012.45	26.56	25.94	167.38	45.20	221.93	558.25	507.79	50.47	11.062		
7,100.00	7,042.56	7,129.61	7,103.80	26.97	26.31	168.20	56.46	223.53	562.30	511.12	51.18	10.986		
7,200.00	7,141.34	7,237.85	7,211.15	27.38	26.74	169.11	70.05	225.99	565.87	513.91	51.96	10.891		
7,300.00	7,240.13	7,324.89	7,297.58	27.79	27.08	169.83	80.28	227.59	570.49	517.84	52.66	10.834		
7,400.00	7,338.92	7,425.29	7,397.27	28.20	27.48	170.70	92.08	228.62	575.72	522.32	53.40	10.781		
7,500.00	7,437.71	7,505.87	7,477.40	28.60	27.79	171.44	100.53	228.15	583.04	528.96	54.08	10.781		
7,600.00	7,536.49	7,618.71	7,589.55	29.01	28.23	172.61	112.65	225.55	591.45	536.57	54.88	10.777		
7,700.00	7,635.28	7,731.54	7,701.00	29.42	28.69	173.97	130.18	224.27	595.31	539.61	55.69	10.689		
7,800.00	7,734.07	7,818.90	7,787.64	29.83	29.04	174.90	141.16	222.67	602.22	545.81	56.41	10.676		
7,900.00	7,832.86	7,958.28	7,925.34	30.24	29.61	176.35	162.55	223.39	605.79	548.46	57.33	10.567		
8,000.00	7,931.64	8,047.64	8,013.49	30.65	29.98	177.05	176.63	227.30	606.76	548.71	58.05	10.452		
8,100.00	8,030.44	8,130.73	8,095.88	31.06	30.31	177.54	186.86	230.65	610.50	551.74	58.76	10.390		
8,200.00	8,129.55	8,208.54	8,173.34	31.46	30.61	177.81	193.52	233.63	614.96	555.46	59.51	10.334		
8,300.00	8,229.07	8,288.65	8,253.35	31.84	30.90	177.96	197.11	235.37	619.91	559.73	60.18	10.300		
8,400.00	8,328.87	8,383.73	8,348.37	32.03	31.23	178.05	199.84	236.93	622.98	562.33	60.66	10.271		
8,500.00	8,428.82	8,660.43	8,619.23	32.05	32.25	176.59	218.95	276.40	614.18	552.73	61.45	9.994		
8,600.00	8,528.65	8,766.93	8,714.24	32.05	32.58	-62.76	219.08	324.19	581.12	519.85	61.27	9.484		
8,700.00	8,626.35	8,963.52	8,861.29	32.01	33.19	-83.88	216.41	453.05	532.19	469.68	62.51	8.513		
8,800.00	8,718.96	9,000.98	8,884.15	31.94	33.33	-92.99	216.00	482.72	489.61	426.31	63.30	7.735		
8,900.00	8,803.68	9,008.10	8,888.28	31.85	33.36	-96.44	215.87	488.52	464.81	401.35	63.46	7.324		
8,959.50	8,849.27	9,003.70	8,885.73	31.80	33.34	-96.31	215.96	484.92	460.68	397.28	63.39	7.267 SF		
9,000.00	8,877.93	8,998.12	8,882.47	31.77	33.32	-95.43	216.05	480.40	462.57	399.27	63.30	7.307		
9,100.00	8,939.44	8,977.85	8,870.26	31.70	33.24	-90.97	216.31	464.23	482.41	419.40	63.01	7.656		
9,200.00	8,986.37	8,949.76	8,852.45	31.66	33.14	-83.78	216.45	442.51	519.72	457.50	62.22	8.353		
9,300.00	9,017.26	8,921.00	8,833.26	31.71	33.04	-75.41	216.39	421.08	568.32	507.87	60.45	9.402		
9,400.00	9,031.20	8,873.00	8,799.18	32.26	32.89	-65.43	216.07	387.30	622.41	565.50	56.91	10.937		
9,500.00	9,032.00	8,826.00	8,763.09	33.25	32.75	-60.87	216.44	357.23	678.68	623.31	55.37	12.257		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Scientific Drilling Int.

Anticollision Report

Company: WPX Energy
Project: Eddy County, New Mexico NAD 83

Local Co-ordinate Reference: Well C 17 State 1H
TVD Reference: GL 3154 + KB 33 = @ 3187.00usft (Nabors X31)

Reference Site: C 17 State Pad

MD Reference: GL 3154 + KB 33 = @ 3187.00usft (Nabors X31)

Site Error: 0.00 usft

North Reference: Grid

Reference Well: C 17 State 1H

Survey Calculation Method: Minimum Curvature

Well Error: 0.00 usft

Output errors are at 2.00 sigma

Reference Wellbore Wellbore #1

Database: Midland District

Reference Design: Plan #1

Offset TVD Reference: Offset Datum

Offset Design C 17 State Pad - Cass 16 St. 2H - Wellbore #1 - As Drilled													Offset Site Error:	0.00 usft
Survey Program: 64-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Minimum Separation (usft)	Separation Factor	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
9,600.00	9,032.00	8,791.82	8,735.21	34.46	32.65	-59.23	217.71	337.50	738.17	682.72	55.44	13.314		
9,700.00	9,032.00	8,764.06	8,711.78	35.84	32.57	-58.14	219.22	322.70	801.07	745.13	55.95	14.318		
9,800.00	9,032.00	8,732.00	8,683.94	37.38	32.48	-56.92	220.28	306.84	867.69	811.25	56.44	15.375		
9,900.00	9,032.00	8,732.00	8,683.94	39.05	32.48	-57.56	220.28	306.84	937.09	878.82	58.27	16.081		
10,000.00	9,032.00	8,708.48	8,663.04	40.84	32.41	-56.03	220.44	296.07	1,010.48	951.72	58.76	17.197		
10,100.00	9,032.00	8,684.00	8,640.89	42.74	32.33	-54.50	220.01	285.65	1,087.67	1,028.41	59.26	18.353		
10,200.00	9,032.00	8,684.00	8,640.89	44.74	32.33	-54.50	220.01	285.65	1,167.60	1,106.65	60.95	19.157		
10,300.00	9,032.00	8,684.00	8,640.89	46.83	32.33	-54.50	220.01	285.65	1,250.42	1,187.71	62.71	19.940		
10,400.00	9,032.00	8,657.42	8,616.45	48.99	32.24	-52.92	218.76	275.28	1,334.66	1,271.41	63.24	21.104		
10,500.00	9,032.00	8,637.00	8,597.44	51.22	32.16	-51.77	217.20	268.00	1,421.09	1,357.00	64.10	22.171		
10,600.00	9,032.00	8,637.00	8,597.44	53.51	32.16	-51.77	217.20	268.00	1,508.72	1,442.76	65.96	22.873		
10,700.00	9,032.00	8,637.00	8,597.44	55.85	32.16	-51.77	217.20	268.00	1,597.80	1,529.94	67.87	23.544		
10,800.00	9,032.00	8,637.00	8,597.44	58.23	32.16	-51.77	217.20	268.00	1,688.11	1,618.30	69.81	24.183		
10,900.00	9,032.00	8,616.87	8,578.48	60.65	32.09	-50.68	215.27	261.52	1,778.89	1,708.17	70.72	25.154		
11,000.00	9,032.00	8,610.97	8,572.87	63.11	32.07	-50.36	214.67	259.78	1,870.75	1,798.37	72.38	25.847		
11,100.00	9,032.00	8,589.00	8,551.84	65.60	31.98	-49.23	212.23	253.92	1,963.69	1,890.51	73.18	26.833		
11,200.00	9,032.00	8,589.00	8,551.84	68.12	31.98	-49.23	212.23	253.92	2,056.70	1,981.54	75.16	27.364		
11,300.00	9,032.00	8,589.00	8,551.84	70.67	31.98	-49.23	212.23	253.92	2,150.33	2,073.18	77.16	27.869		
11,400.00	9,032.00	8,589.00	8,551.84	73.23	31.98	-49.23	212.23	253.92	2,244.52	2,165.34	79.17	28.350		
11,500.00	9,032.00	8,589.00	8,551.84	75.82	31.98	-49.23	212.23	253.92	2,339.18	2,257.98	81.20	28.807		
11,600.00	9,032.00	8,589.00	8,551.84	78.42	31.98	-49.23	212.23	253.92	2,434.28	2,351.03	83.24	29.243		
11,700.00	9,032.00	8,589.00	8,551.84	81.04	31.98	-49.23	212.23	253.92	2,529.75	2,444.45	85.30	29.659		
11,800.00	9,032.00	8,589.00	8,551.84	83.68	31.98	-49.23	212.23	253.92	2,625.56	2,538.20	87.36	30.055		
11,900.00	9,032.00	8,589.00	8,551.84	86.33	31.98	-49.23	212.23	253.92	2,721.67	2,632.23	89.43	30.432		
12,000.00	9,032.00	8,568.66	8,532.16	88.99	31.90	-48.21	209.89	249.36	2,817.57	2,727.38	90.19	31.240		
12,100.00	9,032.00	8,565.60	8,529.19	91.66	31.89	-48.06	209.55	248.75	2,914.05	2,822.00	92.05	31.657		
12,200.00	9,032.00	8,562.73	8,526.38	94.35	31.88	-47.92	209.22	248.19	3,010.73	2,916.81	93.92	32.056		
12,300.00	9,032.00	8,542.00	8,506.09	97.04	31.80	-46.92	206.95	244.63	3,107.98	3,013.40	94.57	32.864		
12,400.00	9,032.00	8,542.00	8,506.09	99.74	31.80	-46.92	206.95	244.63	3,204.93	3,108.31	96.62	33.171		
12,500.00	9,032.00	8,542.00	8,506.09	102.45	31.80	-46.92	206.95	244.63	3,302.07	3,203.40	98.67	33.466		
12,600.00	9,032.00	8,542.00	8,506.09	105.17	31.80	-46.92	206.95	244.63	3,399.37	3,298.64	100.73	33.749		
12,700.00	9,032.00	8,542.00	8,506.09	107.89	31.80	-46.92	206.95	244.63	3,496.83	3,394.04	102.79	34.020		
12,800.00	9,032.00	8,542.00	8,506.09	110.62	31.80	-46.92	206.95	244.63	3,594.42	3,489.57	104.85	34.281		
12,900.00	9,032.00	8,542.00	8,506.09	113.36	31.80	-46.92	206.95	244.63	3,692.14	3,585.22	106.92	34.531		
13,000.00	9,032.00	8,542.00	8,506.09	116.10	31.80	-46.92	206.95	244.63	3,789.99	3,680.99	109.00	34.772		
13,100.00	9,032.00	8,542.00	8,506.09	118.85	31.80	-46.92	206.95	244.63	3,887.94	3,776.87	111.07	35.004		
13,200.00	9,032.00	8,542.00	8,506.09	121.60	31.80	-46.92	206.95	244.63	3,985.99	3,872.84	113.15	35.227		
13,300.00	9,032.00	8,542.00	8,506.09	124.36	31.80	-46.92	206.95	244.63	4,084.14	3,968.91	115.24	35.442		
13,400.00	9,032.00	8,542.00	8,506.09	127.12	31.80	-46.92	206.95	244.63	4,182.38	4,065.05	117.32	35.649		
13,500.00	9,032.00	8,542.00	8,506.09	129.88	31.80	-46.92	206.95	244.63	4,280.69	4,161.28	119.41	35.849		
13,600.00	9,032.00	8,542.00	8,506.09	132.65	31.80	-46.92	206.95	244.63	4,379.09	4,257.59	121.50	36.041		
13,700.00	9,032.00	8,542.00	8,506.09	135.42	31.80	-46.92	206.95	244.63	4,477.55	4,353.96	123.60	36.228		
13,800.00	9,032.00	8,542.00	8,506.09	138.19	31.80	-46.92	206.95	244.63	4,576.08	4,450.39	125.69	36.407		
13,900.00	9,032.00	8,542.00	8,506.09	140.97	31.80	-46.92	206.95	244.63	4,674.68	4,546.89	127.79	36.581		
14,000.00	9,032.00	8,542.00	8,506.09	143.75	31.80	-46.92	206.95	244.63	4,773.33	4,643.44	129.89	36.749		
14,100.00	9,032.00	8,542.00	8,506.09	146.53	31.80	-46.92	206.95	244.63	4,872.04	4,740.05	131.99	36.912		
14,107.04	9,032.00	8,542.00	8,506.09	146.73	31.80	-46.92	206.95	244.63	4,878.98	4,746.85	132.14	36.923		

Scientific Drilling Int.

Anticollision Report

Company: WPX Energy
Project: Eddy County, New Mexico NAD 83

Reference Site: C 17 State Pad

Site Error: 0.00 usft

Reference Well: C 17 State 1H

Well Error: 0.00 usft

Reference Wellbore: Wellbore #1

Reference Design: Plan #1

Local Co-ordinate Reference: Well C 17 State 1H
TVD Reference: GL 3154 + KB 33 = @ 3187.00usft (Nabors X31)

MD Reference: GL 3154 + KB 33 = @ 3187.00usft (Nabors X31)

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

Database: Midland District

Offset TVD Reference: Offset Datum

Offset Design C 17 State Pad - Cass 16 St. 3H - Wellbore #1 - As Drilled													Offset Site Error:	0.00 usft
Survey Program: 81-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	138.87	-783.71	734.21	1,073.90					
100.00	100.00	97.51	97.51	0.12	0.16	136.87	-783.79	734.25	1,073.99	1,073.71	0.28	3,863.675		
200.00	200.00	201.86	201.86	0.48	0.52	136.84	-783.20	734.40	1,073.66	1,072.66	1.00	1,073.034		
300.00	300.00	303.58	303.58	0.84	0.88	136.82	-782.81	734.61	1,073.53	1,071.81	1.72	625.537		
400.00	400.00	415.31	415.29	1.20	1.27	136.86	-782.19	733.09	1,072.17	1,069.70	2.46	435.102		
500.00	500.00	516.56	516.52	1.55	1.62	136.90	-781.49	731.37	1,070.50	1,067.32	3.18	336.888		
600.00	600.00	615.62	615.57	1.91	1.98	136.93	-780.74	729.73	1,068.82	1,064.93	3.89	275.018		
700.00	700.00	716.07	716.01	2.27	2.33	136.96	-779.91	728.19	1,067.17	1,062.56	4.60	231.910		
800.00	800.00	816.97	816.89	2.63	2.69	136.95	-778.48	727.09	1,065.39	1,060.07	5.32	200.285		
900.00	900.00	914.78	914.69	2.99	3.04	136.95	-777.26	726.05	1,063.75	1,057.72	6.03	176.503		
1,000.00	1,000.00	1,014.02	1,013.91	3.35	3.40	136.95	-776.10	725.02	1,062.19	1,055.45	6.74	157.600		
1,100.00	1,100.00	1,108.25	1,108.14	3.70	3.73	136.93	-774.99	724.37	1,060.86	1,053.42	7.43	142.716		
1,183.09	1,183.09	1,180.64	1,180.52	4.00	3.99	136.90	-774.32	724.56	1,060.45	1,052.47	7.99	132.798		
1,200.00	1,200.00	1,194.21	1,194.08	4.06	4.03	136.89	-774.23	724.69	1,060.49	1,052.39	8.09	131.043		
1,300.00	1,300.00	1,275.31	1,275.17	4.42	4.31	136.83	-774.19	726.29	1,061.78	1,053.05	8.73	121.637		
1,400.00	1,400.00	1,363.45	1,363.27	4.78	4.61	136.74	-774.82	729.13	1,064.51	1,055.13	9.39	113.408		
1,500.00	1,500.00	1,464.53	1,464.28	5.14	4.95	136.67	-776.18	732.31	1,067.65	1,057.56	10.09	105.826		
1,600.00	1,600.00	1,552.32	1,552.00	5.50	5.25	136.61	-777.82	735.35	1,071.39	1,060.64	10.75	99.690		
1,700.00	1,700.00	1,647.76	1,647.34	5.86	5.58	136.56	-780.32	738.96	1,075.88	1,064.45	11.43	94.100		
1,800.00	1,800.00	1,743.25	1,742.72	6.21	5.91	136.56	-783.75	742.25	1,080.86	1,068.74	12.12	89.173		
1,900.00	1,900.00	1,867.16	1,866.52	6.57	6.34	136.65	-788.49	744.23	1,084.71	1,071.80	12.91	84.034		
2,000.00	2,000.00	1,970.08	1,969.37	6.93	6.70	136.78	-792.08	744.35	1,087.32	1,073.69	13.62	79.807		
2,100.00	2,100.00	2,107.16	2,106.38	7.29	7.18	91.04	-795.87	743.42	1,089.11	1,074.65	14.46	75.340		
2,200.00	2,199.95	2,220.46	2,219.60	7.64	7.57	91.45	-797.34	739.32	1,087.64	1,072.44	15.20	71.533		
2,300.00	2,299.74	2,319.70	2,318.76	8.00	7.91	92.01	-798.28	735.39	1,085.86	1,069.96	15.91	68.267		
2,400.00	2,399.24	2,427.10	2,426.07	8.35	8.29	92.81	-799.20	731.15	1,084.30	1,067.66	16.64	65.166		
2,500.00	2,498.33	2,541.09	2,539.93	8.71	8.69	93.84	-798.19	725.80	1,081.25	1,063.85	17.40	62.149		
2,600.00	2,597.12	2,636.25	2,634.98	9.07	9.03	94.78	-797.19	721.27	1,078.52	1,060.42	18.10	59.599		
2,700.00	2,695.91	2,746.78	2,745.36	9.44	9.42	95.88	-796.05	715.75	1,076.00	1,057.14	18.85	57.070		
2,800.00	2,794.70	2,849.69	2,848.06	9.81	9.79	96.93	-794.26	709.42	1,072.52	1,052.93	19.59	54.749		
2,900.00	2,893.48	2,948.09	2,946.26	10.18	10.14	97.94	-792.55	703.31	1,069.36	1,049.04	20.31	52.643		
3,000.00	2,992.27	3,080.89	3,078.63	10.56	10.61	99.32	-788.33	693.69	1,064.76	1,043.60	21.16	50.313		
3,100.00	3,091.06	3,182.99	3,180.29	10.94	10.98	100.40	-783.76	685.34	1,059.00	1,037.09	21.91	48.340		
3,200.00	3,189.85	3,296.50	3,293.09	11.32	11.40	101.71	-778.86	673.84	1,052.67	1,029.97	22.70	46.380		
3,300.00	3,288.63	3,399.44	3,394.99	11.71	11.78	103.10	-775.20	659.66	1,045.47	1,022.02	23.46	44.572		
3,400.00	3,387.42	3,480.70	3,475.20	12.09	12.09	104.34	-773.75	646.77	1,039.34	1,015.20	24.14	43.051		
3,500.00	3,486.21	3,553.87	3,547.41	12.48	12.37	105.51	-774.32	634.97	1,035.93	1,011.13	24.80	41.767		
3,569.86	3,555.22	3,605.46	3,598.42	12.75	12.56	106.33	-775.41	627.34	1,035.24	1,009.97	25.27	40.970 CC		
3,600.00	3,585.00	3,628.81	3,621.55	12.87	12.65	106.69	-776.05	624.14	1,035.37	1,009.89	25.47	40.645 ES		
3,700.00	3,683.78	3,730.24	3,722.24	13.26	13.04	108.15	-777.83	612.08	1,036.22	1,009.98	26.24	39.486		
3,800.00	3,782.57	3,829.15	3,820.71	13.65	13.41	109.41	-777.91	602.93	1,037.32	1,010.32	27.00	38.421		
3,900.00	3,881.36	3,923.31	3,914.55	14.05	13.76	110.55	-777.71	595.06	1,039.02	1,011.28	27.74	37.460		
4,000.00	3,980.15	4,017.52	4,008.45	14.44	14.11	111.68	-777.70	587.50	1,041.49	1,013.02	28.47	36.576		
4,100.00	4,078.93	4,111.87	4,102.55	14.84	14.46	112.78	-777.79	580.51	1,044.73	1,015.51	29.21	35.763		
4,200.00	4,177.72	4,206.87	4,197.31	15.23	14.81	113.86	-778.03	573.84	1,048.66	1,018.71	29.95	35.012		
4,300.00	4,276.51	4,302.06	4,292.28	15.63	15.16	114.93	-778.41	567.42	1,053.25	1,022.56	30.69	34.318		
4,400.00	4,375.30	4,396.47	4,386.49	16.03	15.51	115.97	-779.00	561.30	1,058.51	1,027.09	31.43	33.682		
4,500.00	4,474.08	4,488.51	4,478.34	16.43	15.85	116.98	-779.83	555.42	1,064.45	1,032.30	32.15	33.105		
4,600.00	4,572.87	4,571.00	4,560.63	16.83	16.15	117.88	-781.91	550.19	1,072.23	1,039.38	32.85	32.645		
4,700.00	4,671.66	4,685.03	4,674.36	17.23	16.57	119.15	-784.81	542.34	1,080.42	1,046.77	33.65	32.107		
4,800.00	4,770.45	4,794.84	4,783.87	17.63	16.98	120.35	-785.55	534.37	1,087.05	1,052.61	34.44	31.563		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Scientific Drilling Int.

Anticollision Report

Company: WPX Energy
Project: Eddy County, New Mexico NAD 83

Local Co-ordinate Reference: Well C 17 State 1H
TVD Reference: GL 3154 + KB 33 = @ 3187.00usft (Nabors X31)

Reference Site: C 17 State Pad

MD Reference: GL 3154 + KB 33 = @ 3187.00usft (Nabors X31)

Site Error: 0.00 usft

North Reference: Grid

Reference Well: C 17 State 1H

Survey Calculation Method: Minimum Curvature

Well Error: 0.00 usft

Output errors are at 2.00 sigma

Reference Wellbore Wellbore #1

Database: Midland District

Reference Design: Plan #1

Offset TVD Reference: Offset Datum

Offset Design C 17 State Pad - Cass 16 St. 3H - Wellbore #1 - As Drilled												Offset Site Error:	0.00 usft
Survey Program: 81-MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)					
4,900.00	4,869.23	4,892.11	4,880.93	18.03	17.34	121.36	-785.71	527.96	1,093.75	1,058.57	35.18	31.087	
5,000.00	4,968.02	4,988.86	4,977.51	18.44	17.69	122.32	-785.77	522.16	1,100.83	1,064.90	35.92	30.644	
5,100.00	5,066.81	5,083.68	5,072.18	18.84	18.04	123.22	-785.94	517.11	1,108.45	1,071.79	36.65	30.243	
5,200.00	5,165.59	5,179.37	5,167.84	19.24	18.38	123.99	-785.90	514.53	1,116.60	1,079.22	37.38	29.872	
5,300.00	5,264.38	5,274.20	5,262.65	19.65	18.72	124.71	-785.99	512.66	1,125.20	1,087.11	38.09	29.537	
5,400.00	5,363.17	5,371.96	5,360.41	20.05	19.05	125.34	-786.12	512.70	1,134.32	1,095.51	38.81	29.229	
5,500.00	5,461.96	5,476.73	5,465.18	20.46	19.40	125.99	-785.90	512.99	1,143.27	1,103.73	39.54	28.915	
5,600.00	5,560.74	5,563.07	5,551.52	20.86	19.68	126.51	-785.60	513.36	1,152.29	1,112.08	40.21	28.655	
5,700.00	5,659.53	5,645.47	5,633.88	21.27	19.96	126.92	-786.66	515.60	1,163.21	1,122.34	40.87	28.460	
5,800.00	5,758.32	5,744.74	5,733.09	21.67	20.28	127.40	-788.39	518.37	1,174.71	1,133.13	41.58	28.252	
5,900.00	5,857.11	5,847.81	5,836.09	22.08	20.62	127.86	-789.90	521.93	1,186.09	1,143.79	42.30	28.041	
6,000.00	5,955.89	5,946.98	5,935.18	22.48	20.94	128.26	-790.99	525.86	1,197.21	1,154.20	43.01	27.837	
6,100.00	6,054.68	6,042.08	6,030.21	22.89	21.25	128.67	-792.35	529.05	1,208.67	1,164.96	43.70	27.655	
6,200.00	6,153.47	6,151.55	6,139.66	23.30	21.62	129.24	-794.05	530.34	1,220.17	1,175.72	44.45	27.450	
6,300.00	6,252.26	6,268.92	6,257.00	23.70	22.01	129.79	-794.09	532.76	1,230.30	1,185.08	45.22	27.207	
6,400.00	6,351.04	6,371.18	6,359.18	24.11	22.35	130.17	-793.09	536.82	1,239.63	1,193.69	45.94	26.982	
6,500.00	6,449.83	6,470.87	6,458.79	24.52	22.68	130.53	-792.02	540.73	1,248.92	1,202.26	46.66	26.767	
6,600.00	6,548.62	6,577.21	6,565.05	24.93	23.03	130.93	-790.69	544.47	1,258.06	1,210.66	47.40	26.543	
6,700.00	6,647.41	6,691.57	6,679.30	25.33	23.42	131.36	-787.88	548.36	1,266.01	1,217.85	48.16	26.287	
6,800.00	6,746.19	6,788.00	6,775.61	25.74	23.74	131.68	-785.20	552.27	1,273.76	1,224.89	48.87	26.064	
6,900.00	6,844.98	6,876.30	6,863.87	26.15	24.04	132.04	-783.18	554.55	1,282.01	1,232.45	49.55	25.870	
7,000.00	6,943.77	6,958.80	6,946.34	26.56	24.33	132.50	-782.46	553.66	1,291.60	1,241.37	50.22	25.717	
7,100.00	7,042.56	7,049.63	7,037.13	26.97	24.65	133.09	-782.44	550.83	1,302.14	1,251.22	50.92	25.571	
7,200.00	7,141.34	7,137.90	7,125.32	27.38	24.97	133.69	-783.07	547.10	1,313.56	1,261.95	51.61	25.451	
7,300.00	7,240.13	7,232.14	7,219.44	27.79	25.31	134.35	-784.23	542.40	1,325.68	1,273.36	52.32	25.337	
7,400.00	7,338.92	7,332.72	7,319.89	28.20	25.67	135.04	-785.49	537.48	1,338.02	1,284.97	53.05	25.221	
7,500.00	7,437.71	7,430.72	7,417.80	28.60	26.02	135.67	-786.53	533.46	1,350.32	1,296.55	53.77	25.112	
7,600.00	7,536.49	7,519.13	7,506.18	29.01	26.34	136.16	-788.04	531.57	1,363.32	1,308.86	54.46	25.034	
7,700.00	7,635.28	7,622.53	7,609.55	29.42	26.70	136.68	-789.99	530.19	1,376.57	1,321.38	55.19	24.942	
7,800.00	7,734.07	7,731.76	7,718.76	29.83	27.08	137.22	-791.36	528.63	1,389.32	1,333.37	55.94	24.834	
7,900.00	7,832.86	7,832.63	7,819.59	30.24	27.44	137.76	-791.93	526.14	1,401.56	1,344.88	56.67	24.731	
8,000.00	7,931.64	7,931.68	7,918.61	30.65	27.79	138.28	-792.66	523.68	1,414.08	1,356.68	57.39	24.638	
8,100.00	8,030.44	8,027.01	8,013.89	31.06	28.13	138.82	-793.10	520.69	1,426.47	1,368.35	58.12	24.544	
8,200.00	8,129.55	8,124.62	8,111.47	31.46	28.48	139.40	-794.10	518.26	1,437.76	1,378.86	58.90	24.409	
8,300.00	8,229.07	8,239.07	8,225.91	31.84	28.87	139.80	-794.84	518.05	1,445.88	1,386.18	59.70	24.219	
8,400.00	8,328.87	8,333.57	8,320.41	32.03	29.20	140.02	-794.92	517.93	1,450.81	1,390.59	60.22	24.094	
8,500.00	8,428.82	8,748.71	8,726.32	32.05	30.55	138.52	-759.95	563.77	1,445.31	1,383.71	61.60	23.462	
8,600.00	8,528.65	8,794.00	8,766.32	32.05	30.68	-98.74	-753.81	584.06	1,427.20	1,365.39	61.81	23.090	
8,700.00	8,626.35	8,811.21	8,781.23	32.01	30.73	-98.34	-752.25	592.51	1,415.92	1,354.05	61.88	22.884	
8,780.48	8,701.42	8,826.00	8,793.93	31.95	30.78	-99.10	-751.29	600.04	1,412.98	1,351.15	61.84	22.850 SF	
8,800.00	8,718.96	8,826.00	8,793.93	31.94	30.78	-99.08	-751.29	600.04	1,413.17	1,351.36	61.81	22.863	
8,900.00	8,803.68	8,844.93	8,809.96	31.85	30.83	-99.12	-750.54	610.08	1,419.56	1,357.87	61.69	23.011	
9,000.00	8,877.93	8,857.00	8,820.02	31.77	30.87	-99.01	-750.35	616.74	1,435.38	1,373.78	61.60	23.300	
9,100.00	8,939.44	8,857.00	8,820.02	31.70	30.87	-95.48	-750.35	616.74	1,460.06	1,398.40	61.66	23.678	
9,200.00	8,986.37	8,857.00	8,820.02	31.66	30.87	-92.05	-750.35	616.74	1,492.59	1,430.69	61.91	24.111	
9,300.00	9,017.26	8,857.00	8,820.02	31.71	30.87	-87.82	-750.35	616.74	1,531.53	1,469.32	62.21	24.620	
9,400.00	9,031.20	8,826.00	8,793.93	32.26	30.78	-81.90	-751.29	600.04	1,574.79	1,512.68	62.12	25.351	
9,500.00	9,032.00	8,826.00	8,793.93	33.25	30.78	-80.52	-751.29	600.04	1,620.56	1,557.72	62.85	25.786	
9,600.00	9,032.00	8,811.86	8,781.79	34.46	30.73	-80.23	-752.20	592.84	1,667.89	1,603.96	63.93	26.091	
9,700.00	9,032.00	8,794.00	8,766.32	35.84	30.68	-79.85	-753.81	584.06	1,716.53	1,651.40	65.12	26.358	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Scientific Drilling Int.

Anticollision Report

Company: WPX Energy
Project: Eddy County, New Mexico NAD 83

Local Co-ordinate Reference: Well C 17 State 1H
TVD Reference: GL 3154 + KB 33 = @ 3187.00usft (Nabors X31)

Reference Site: C 17 State Pad

MD Reference: GL 3154 + KB 33 = @ 3187.00usft (Nabors X31)

Site Error: 0.00 usft

North Reference: Grid

Reference Well: C 17 State 1H

Survey Calculation Method: Minimum Curvature

Well Error: 0.00 usft

Output errors are at 2.00 sigma

Reference Wellbore Wellbore #1

Database: Midland District

Reference Design: Plan #1

Offset TVD Reference: Offset Datum

Offset Design C 17 State Pad - Cass 16 St. 3H - Wellbore #1 - As Drilled												Offset Site Error:	0.00 usft
Survey Program: 81-MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Minimum Separation (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)					
9,800.00	9,032.00	8,794.00	8,766.32	37.38	30.68	-80.05	-753.81	584.06	1,766.20	1,699.57	66.62	26.510	
9,900.00	9,032.00	8,779.89	8,753.98	39.05	30.64	-79.74	-755.42	577.41	1,817.06	1,748.95	68.11	26.677	
10,000.00	9,032.00	8,763.00	8,739.07	40.84	30.59	-79.21	-757.74	569.83	1,871.18	1,801.47	69.71	26.841	
10,100.00	9,032.00	8,763.00	8,739.07	42.74	30.59	-79.21	-757.74	569.83	1,928.62	1,857.03	71.59	26.939	
10,200.00	9,032.00	8,763.00	8,739.07	44.74	30.59	-79.21	-757.74	569.83	1,989.43	1,915.86	73.57	27.041	
10,300.00	9,032.00	8,731.00	8,710.31	46.83	30.50	-78.22	-762.87	556.79	2,053.02	1,977.73	75.29	27.269	
10,400.00	9,032.00	8,731.00	8,710.31	48.99	30.50	-78.22	-762.87	556.79	2,119.09	2,041.67	77.42	27.370	
10,500.00	9,032.00	8,731.00	8,710.31	51.22	30.50	-78.22	-762.87	556.79	2,187.74	2,108.12	79.62	27.476	
10,600.00	9,032.00	8,731.00	8,710.31	53.51	30.50	-78.22	-762.87	556.79	2,258.73	2,176.85	81.88	27.586	
10,700.00	9,032.00	8,712.88	8,693.70	55.85	30.45	-77.65	-766.04	550.27	2,331.49	2,247.52	83.97	27.767	
10,800.00	9,032.00	8,700.00	8,681.76	58.23	30.42	-77.24	-768.36	546.03	2,406.29	2,320.14	86.15	27.932	
10,900.00	9,032.00	8,700.00	8,681.76	60.65	30.42	-77.24	-768.36	546.03	2,482.69	2,394.16	88.53	28.043	
11,000.00	9,032.00	8,700.00	8,681.76	63.11	30.42	-77.24	-768.36	546.03	2,560.71	2,469.76	90.95	28.156	
11,100.00	9,032.00	8,700.00	8,681.76	65.60	30.42	-77.24	-768.36	546.03	2,640.22	2,546.83	93.39	28.270	
11,200.00	9,032.00	8,684.69	8,667.44	68.12	30.37	-76.76	-771.18	541.42	2,720.82	2,625.18	95.65	28.446	
11,300.00	9,032.00	8,668.00	8,651.68	70.67	30.32	-76.23	-774.34	536.92	2,802.90	2,705.01	97.89	28.633	
11,400.00	9,032.00	8,668.00	8,651.68	73.23	30.32	-76.23	-774.34	536.92	2,885.82	2,785.42	100.40	28.744	
11,500.00	9,032.00	8,668.00	8,651.68	75.82	30.32	-76.23	-774.34	536.92	2,969.79	2,866.86	102.93	28.853	
11,600.00	9,032.00	8,668.00	8,651.68	78.42	30.32	-76.23	-774.34	536.92	3,054.72	2,949.25	105.47	28.962	
11,700.00	9,032.00	8,668.00	8,651.68	81.04	30.32	-76.23	-774.34	536.92	3,140.55	3,032.51	108.03	29.070	
11,800.00	9,032.00	8,668.00	8,651.68	83.68	30.32	-76.23	-774.34	536.92	3,227.19	3,116.58	110.61	29.177	
11,900.00	9,032.00	8,668.00	8,651.68	86.33	30.32	-76.23	-774.34	536.92	3,314.58	3,201.38	113.20	29.282	
12,000.00	9,032.00	8,653.89	8,638.25	88.99	30.28	-75.79	-777.03	533.55	3,402.45	3,286.91	115.55	29.447	
12,100.00	9,032.00	8,650.91	8,635.40	91.66	30.27	-75.69	-777.60	532.88	3,491.08	3,372.98	118.10	29.561	
12,200.00	9,032.00	8,636.00	8,621.09	94.35	30.23	-75.22	-780.46	529.85	3,580.45	3,460.02	120.43	29.731	
12,300.00	9,032.00	8,636.00	8,621.09	97.04	30.23	-75.22	-780.46	529.85	3,670.13	3,547.09	123.05	29.827	
12,400.00	9,032.00	8,636.00	8,621.09	99.74	30.23	-75.22	-780.46	529.85	3,760.34	3,634.67	125.67	29.921	
12,500.00	9,032.00	8,636.00	8,621.09	102.45	30.23	-75.22	-780.46	529.85	3,851.04	3,722.73	128.31	30.014	
12,600.00	9,032.00	8,636.00	8,621.09	105.17	30.23	-75.22	-780.46	529.85	3,942.18	3,811.23	130.95	30.105	
12,700.00	9,032.00	8,636.00	8,621.09	107.89	30.23	-75.22	-780.46	529.85	4,033.74	3,900.15	133.59	30.194	
12,800.00	9,032.00	8,636.00	8,621.09	110.62	30.23	-75.22	-780.46	529.85	4,125.69	3,989.45	136.25	30.281	
12,900.00	9,032.00	8,636.00	8,621.09	113.36	30.23	-75.22	-780.46	529.85	4,218.01	4,079.11	138.91	30.366	
13,000.00	9,032.00	8,636.00	8,621.09	116.10	30.23	-75.22	-780.46	529.85	4,310.68	4,169.11	141.57	30.449	
13,100.00	9,032.00	8,636.00	8,621.09	118.85	30.23	-75.22	-780.46	529.85	4,403.66	4,259.42	144.24	30.531	
13,200.00	9,032.00	8,621.31	8,606.88	121.60	30.18	-74.76	-783.18	527.25	4,496.79	4,350.22	146.57	30.680	
13,300.00	9,032.00	8,618.81	8,604.46	124.36	30.17	-74.68	-783.63	526.84	4,590.30	4,441.12	149.18	30.770	
13,400.00	9,032.00	8,605.00	8,591.01	127.12	30.13	-74.24	-785.97	524.77	4,684.17	4,532.65	151.51	30.916	
13,500.00	9,032.00	8,605.00	8,591.01	129.88	30.13	-74.24	-785.97	524.77	4,778.15	4,623.96	154.19	30.989	
13,600.00	9,032.00	8,605.00	8,591.01	132.65	30.13	-74.24	-785.97	524.77	4,872.37	4,715.51	156.86	31.061	
13,700.00	9,032.00	8,605.00	8,591.01	135.42	30.13	-74.24	-785.97	524.77	4,966.82	4,807.27	159.54	31.132	
13,800.00	9,032.00	8,605.00	8,591.01	138.19	30.13	-74.24	-785.97	524.77	5,061.48	4,899.25	162.22	31.201	
13,900.00	9,032.00	8,605.00	8,591.01	140.97	30.13	-74.24	-785.97	524.77	5,156.34	4,991.43	164.91	31.268	
14,000.00	9,032.00	8,605.00	8,591.01	143.75	30.13	-74.24	-785.97	524.77	5,251.39	5,083.80	167.59	31.334	
14,100.00	9,032.00	8,605.00	8,591.01	146.53	30.13	-74.24	-785.97	524.77	5,346.62	5,176.34	170.28	31.398	
14,107.04	9,032.00	8,605.00	8,591.01	146.73	30.13	-74.24	-785.97	524.77	5,353.33	5,182.86	170.47	31.403	

Scientific Drilling Int.

Anticollision Report

Company: WPX Energy
Project: Eddy County, New Mexico NAD 83

Local Co-ordinate Reference: Well C 17 State 1H
TVD Reference: GL 3154 + KB 33 = @ 3187.00usft (Nabors X31)

Reference Site: C 17 State Pad

MD Reference: GL 3154 + KB 33 = @ 3187.00usft (Nabors X31)

Site Error: 0.00 usft

North Reference: Grid

Reference Well: C 17 State 1H

Survey Calculation Method: Minimum Curvature

Well Error: 0.00 usft

Output errors are at 2.00 sigma

Reference Wellbore Wellbore #1

Database: Midland District

Reference Design: Plan #1

Offset TVD Reference: Offset Datum

Offset Design C 17 State Pad - Cass 16 St. 4H - Wellbore #1 - As Drilled												Offset Site Error:	0.00 usft
Survey Program: 173-MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)					
0.00	0.00	0.00	0.00	0.00	0.00	137.94	-813.82	734.24	1,096.10				
100.00	100.00	93.44	93.44	0.12	0.14	137.93	-813.81	734.55	1,096.30	1,096.03	0.27	4,123.357	
200.00	200.00	209.60	209.59	0.48	0.40	137.87	-813.37	735.63	1,096.75	1,095.87	0.88	1,251.704	
300.00	300.00	332.76	332.65	0.84	0.84	137.70	-808.65	735.74	1,093.81	1,092.14	1.67	654.811	
400.00	400.00	435.65	435.45	1.20	1.20	137.56	-804.26	735.46	1,090.47	1,088.07	2.40	454.582	
500.00	500.00	538.72	538.41	1.55	1.58	137.42	-799.53	734.65	1,086.55	1,083.42	3.13	347.203	
600.00	600.00	626.57	626.20	1.91	1.89	137.34	-796.45	733.97	1,083.43	1,079.63	3.80	284.797	
700.00	700.00	716.49	716.09	2.27	2.21	137.28	-794.30	733.36	1,081.23	1,076.74	4.48	241.187	
800.00	800.00	800.50	800.10	2.63	2.50	137.28	-793.70	732.88	1,080.31	1,075.18	5.13	210.476	
816.99	816.99	815.39	814.99	2.69	2.55	137.29	-793.77	732.78	1,080.30	1,075.05	5.24	206.023	
900.00	900.00	889.04	888.62	2.99	2.80	137.36	-794.93	732.05	1,080.69	1,074.90	5.79	186.711	
1,000.00	1,000.00	989.26	988.79	3.35	3.14	137.52	-797.60	730.39	1,081.53	1,075.05	6.48	166.848	
1,100.00	1,100.00	1,087.13	1,086.62	3.70	3.47	137.67	-800.16	728.95	1,082.48	1,075.30	7.17	150.907	
1,200.00	1,200.00	1,180.34	1,179.80	4.06	3.79	137.78	-802.49	728.07	1,083.70	1,075.85	7.85	138.032	
1,300.00	1,300.00	1,262.32	1,261.74	4.42	4.07	137.85	-804.93	728.51	1,086.25	1,077.76	8.49	127.923	
1,400.00	1,400.00	1,357.29	1,356.64	4.78	4.40	137.92	-808.46	729.87	1,089.97	1,080.79	9.18	118.758	
1,500.00	1,500.00	1,494.74	1,494.02	5.14	4.88	138.08	-812.20	729.28	1,091.57	1,081.56	10.02	108.969	
1,600.00	1,600.00	1,604.87	1,604.13	5.50	5.27	138.19	-813.49	727.57	1,091.40	1,080.64	10.76	101.397	
1,700.00	1,700.00	1,711.93	1,711.16	5.86	5.65	138.31	-814.33	725.20	1,090.51	1,079.01	11.50	94.825	
1,800.00	1,800.00	1,824.45	1,823.58	6.21	6.04	138.54	-815.66	720.73	1,088.76	1,076.51	12.26	88.826	
1,900.00	1,900.00	1,930.30	1,929.27	6.57	6.42	138.80	-816.88	715.11	1,086.12	1,073.13	12.99	83.603	
2,000.00	2,000.00	2,028.55	2,027.38	6.93	6.77	139.04	-817.80	709.96	1,083.37	1,069.67	13.70	79.086	
2,100.00	2,100.00	2,135.05	2,133.58	7.29	7.16	93.53	-820.05	702.26	1,080.25	1,065.80	14.45	74.770	
2,200.00	2,199.95	2,235.14	2,233.32	7.64	7.52	94.16	-822.57	694.25	1,077.19	1,062.03	15.17	71.031	
2,300.00	2,299.74	2,331.22	2,329.06	8.00	7.88	94.93	-824.88	686.61	1,074.47	1,058.60	15.87	67.706	
2,400.00	2,399.24	2,423.78	2,421.40	8.35	8.21	95.76	-826.79	680.54	1,072.87	1,056.31	16.56	64.776	
2,500.00	2,498.33	2,519.32	2,516.75	8.71	8.56	96.76	-828.74	674.83	1,072.26	1,054.99	17.27	62.090	
2,520.17	2,518.27	2,538.66	2,536.06	8.78	8.63	96.97	-829.14	673.71	1,072.25	1,054.83	17.41	61.577 CC	
2,600.00	2,597.12	2,615.81	2,613.04	9.07	8.92	97.87	-830.99	668.97	1,072.46	1,054.47	17.99	59.627 ES	
2,700.00	2,695.91	2,711.04	2,707.87	9.44	9.27	99.09	-834.76	661.24	1,073.24	1,054.53	18.71	57.373	
2,800.00	2,794.70	2,806.18	2,802.63	9.81	9.63	100.32	-838.73	653.60	1,074.79	1,055.36	19.43	55.312	
2,900.00	2,893.48	2,904.35	2,900.45	10.18	9.99	101.55	-842.56	646.23	1,076.92	1,056.75	20.17	53.390	
3,000.00	2,992.27	3,023.05	3,018.67	10.56	10.44	103.05	-846.64	636.47	1,078.90	1,057.90	20.99	51.398	
3,100.00	3,091.06	3,124.91	3,119.95	10.94	10.82	104.41	-849.31	625.99	1,079.62	1,057.86	21.75	49.628	
3,200.00	3,189.85	3,219.24	3,213.78	11.32	11.18	105.65	-851.72	616.55	1,081.02	1,058.53	22.49	48.062	
3,300.00	3,288.63	3,316.53	3,310.57	11.71	11.55	106.91	-854.21	607.10	1,083.11	1,059.87	23.24	46.601	
3,400.00	3,387.42	3,413.08	3,406.66	12.09	11.92	108.15	-856.57	597.87	1,085.73	1,061.74	23.99	45.255	
3,500.00	3,486.21	3,510.37	3,503.48	12.48	12.29	109.38	-858.92	588.68	1,088.90	1,064.16	24.74	44.006	
3,600.00	3,585.00	3,605.51	3,598.18	12.87	12.65	110.58	-861.21	579.83	1,092.67	1,067.18	25.49	42.867	
3,700.00	3,683.78	3,697.14	3,689.39	13.26	13.00	111.73	-863.71	571.37	1,097.26	1,071.04	26.22	41.843	
3,800.00	3,782.57	3,793.88	3,785.66	13.65	13.38	112.94	-866.72	562.32	1,102.67	1,075.69	26.98	40.875	
3,900.00	3,881.36	3,886.17	3,877.51	14.05	13.73	114.08	-869.68	553.89	1,108.76	1,081.05	27.71	40.008	
4,000.00	3,980.15	3,981.35	3,972.26	14.44	14.09	115.23	-872.97	545.45	1,115.67	1,087.21	28.46	39.201	
4,100.00	4,078.93	4,078.62	4,069.12	14.84	14.47	116.37	-876.27	537.22	1,123.12	1,093.91	29.21	38.446	
4,200.00	4,177.72	4,174.31	4,164.46	15.23	14.83	117.46	-879.39	529.64	1,131.07	1,101.11	29.96	37.756	
4,300.00	4,276.51	4,271.89	4,261.70	15.63	15.20	118.54	-882.56	522.20	1,139.50	1,108.79	30.71	37.109	
4,400.00	4,375.30	4,371.59	4,361.08	16.03	15.58	119.61	-885.64	514.74	1,148.23	1,116.76	31.46	36.494	
4,500.00	4,474.08	4,476.11	4,465.37	16.43	15.97	120.65	-887.93	508.26	1,156.77	1,124.54	32.23	35.891	
4,600.00	4,572.87	4,559.37	4,548.54	16.83	16.27	121.37	-889.72	505.13	1,166.12	1,133.20	32.91	35.428	
4,700.00	4,671.66	4,659.46	4,648.58	17.23	16.63	122.16	-892.14	502.64	1,176.22	1,142.57	33.65	34.953	
4,800.00	4,770.45	4,759.79	4,748.88	17.63	16.97	122.83	-894.00	502.38	1,186.42	1,152.04	34.37	34.517	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Scientific Drilling Int.

Anticollision Report

Company: WPX Energy
Project: Eddy County, New Mexico NAD 83

Local Co-ordinate Reference: Well C 17 State 1H
TVD Reference: GL 3154 + KB 33 = @ 3187.00usft (Nabors X31)

Reference Site: C 17 State Pad

MD Reference: GL 3154 + KB 33 = @ 3187.00usft (Nabors X31)

Site Error: 0.00 usft

North Reference: Grid

Reference Well: C 17 State 1H

Survey Calculation Method: Minimum Curvature

Well Error: 0.00 usft

Output errors are at 2.00 sigma

Reference Wellbore Wellbore #1

Database: Midland District

Reference Design: Plan #1

Offset TVD Reference: Offset Datum

Offset Design C 17 State Pad - Cass 16 St. 4H - Wellbore #1 - As Drilled													Offset Site Error:	0.00 usft
Survey Program: 173-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
4,900.00	4,869.23	4,871.71	4,860.75	18.03	17.32	123.38	-894.70	505.77	1,196.15	1,161.04	35.11	34.068		
5,000.00	4,968.02	4,983.03	4,971.92	18.44	17.67	123.81	-893.59	511.14	1,204.66	1,168.82	35.84	33.611		
5,100.00	5,066.81	5,082.34	5,071.11	18.84	17.98	124.18	-892.18	516.02	1,212.85	1,176.32	36.54	33.194		
5,200.00	5,165.59	5,177.49	5,166.16	19.24	18.28	124.56	-891.13	520.07	1,221.29	1,184.07	37.22	32.809		
5,300.00	5,264.38	5,271.32	5,259.92	19.65	18.58	124.95	-890.54	523.77	1,230.21	1,192.30	37.91	32.451		
5,400.00	5,363.17	5,396.44	5,384.98	20.05	18.98	125.52	-889.51	527.28	1,238.96	1,200.26	38.70	32.017		
5,500.00	5,461.96	5,504.00	5,492.50	20.46	19.34	126.11	-888.77	527.71	1,245.63	1,206.19	39.44	31.585		
5,600.00	5,560.74	5,598.00	5,586.47	20.86	19.65	126.61	-884.44	528.31	1,252.52	1,212.38	40.13	31.208		
5,700.00	5,659.53	5,693.00	5,681.44	21.27	19.97	127.09	-882.35	529.32	1,259.83	1,219.00	40.83	30.853		
5,800.00	5,758.32	5,776.24	5,764.67	21.67	20.25	127.53	-881.15	529.68	1,267.95	1,226.45	41.50	30.554		
5,900.00	5,857.11	5,888.50	5,876.92	22.08	20.63	128.17	-879.99	529.22	1,276.49	1,234.22	42.26	30.202		
6,000.00	5,955.89	5,976.00	5,964.41	22.48	20.94	128.69	-878.55	528.03	1,284.50	1,241.55	42.95	29.907		
6,100.00	6,054.68	6,071.00	6,059.32	22.89	21.28	129.37	-878.32	524.21	1,293.77	1,250.10	43.67	29.628		
6,200.00	6,153.47	6,155.03	6,143.20	23.30	21.59	130.03	-879.22	519.36	1,304.32	1,259.97	44.35	29.409		
6,300.00	6,252.26	6,242.58	6,230.65	23.70	21.90	130.66	-880.33	515.41	1,315.47	1,270.43	45.04	29.205		
6,400.00	6,351.04	6,329.03	6,317.06	24.11	22.21	131.20	-882.12	513.27	1,327.67	1,281.94	45.73	29.034		
6,500.00	6,449.83	6,423.18	6,411.17	24.52	22.55	131.74	-884.68	511.91	1,340.67	1,294.24	46.43	28.872		
6,600.00	6,548.62	6,517.64	6,505.59	24.93	22.87	132.23	-887.39	511.56	1,353.99	1,306.85	47.14	28.725		
6,700.00	6,647.41	6,703.35	6,689.44	25.33	23.46	132.24	-888.62	532.51	1,366.36	1,318.25	48.11	28.401		
6,800.00	6,746.19	6,787.33	6,769.01	25.74	23.69	131.52	-885.75	559.01	1,374.34	1,325.57	48.76	28.184		
6,900.00	6,844.98	6,893.68	6,882.77	26.15	23.98	129.92	-881.33	608.69	1,382.71	1,333.21	49.50	27.932		
7,000.00	6,943.77	6,974.54	6,927.26	26.56	24.23	128.23	-877.16	657.18	1,392.29	1,342.09	50.20	27.734		
7,100.00	7,042.56	7,029.00	6,967.17	26.97	24.42	126.92	-874.39	694.12	1,404.78	1,353.94	50.83	27.635		
7,200.00	7,141.34	7,076.00	6,999.60	27.38	24.61	125.70	-872.38	728.07	1,421.20	1,369.73	51.47	27.614 SF		
7,300.00	7,240.13	7,124.00	7,030.81	27.79	24.84	124.39	-870.89	764.50	1,441.95	1,389.82	52.13	27.658		
7,400.00	7,338.92	7,171.00	7,059.12	28.20	25.11	123.04	-870.08	802.00	1,467.39	1,414.56	52.83	27.774		
7,500.00	7,437.71	7,194.58	7,072.24	28.60	25.27	122.34	-869.88	821.59	1,497.47	1,444.07	53.41	28.040		
7,600.00	7,536.49	7,219.00	7,084.87	29.01	25.43	121.59	-869.84	842.49	1,532.38	1,478.40	53.98	28.387		
7,700.00	7,635.28	7,244.39	7,096.90	29.42	25.63	120.78	-869.94	864.85	1,571.95	1,517.35	54.59	28.795		
7,800.00	7,734.07	7,266.00	7,106.20	29.83	25.79	120.08	-870.10	884.35	1,616.00	1,560.83	55.17	29.292		
7,900.00	7,832.86	7,289.68	7,115.50	30.24	26.01	119.30	-870.29	906.12	1,664.22	1,608.43	55.79	29.831		
8,000.00	7,931.64	7,313.00	7,123.87	30.65	26.22	118.52	-870.40	927.88	1,716.26	1,659.86	56.40	30.429		
8,100.00	8,030.44	7,334.30	7,130.87	31.06	26.44	117.99	-870.43	948.00	1,771.84	1,714.82	57.02	31.073		
8,200.00	8,129.55	7,361.00	7,138.82	31.46	26.71	118.33	-870.32	973.49	1,829.91	1,772.21	57.70	31.713		
8,300.00	8,229.07	7,361.00	7,138.82	31.84	26.71	119.64	-870.32	973.49	1,889.81	1,831.73	58.09	32.535		
8,400.00	8,328.87	7,382.88	7,144.61	32.03	26.96	120.24	-870.10	994.58	1,951.39	1,892.87	58.52	33.347		
8,500.00	8,428.82	7,393.56	7,147.18	32.05	27.09	121.26	-869.93	1,004.95	2,014.59	1,955.97	58.62	34.364		
8,600.00	8,528.65	7,408.00	7,150.39	32.05	27.25	-105.96	-869.64	1,019.02	2,080.66	2,021.97	58.68	35.456		
8,700.00	8,626.35	7,408.00	7,150.39	32.01	27.25	-95.89	-869.64	1,019.02	2,152.27	2,093.99	58.29	36.927		
8,800.00	8,718.96	7,408.00	7,150.39	31.94	27.25	-84.58	-869.64	1,019.02	2,227.23	2,169.74	57.50	38.737		
8,900.00	8,803.68	7,386.14	7,145.42	31.85	27.00	-72.52	-870.05	997.74	2,302.73	2,247.21	55.52	41.477		
9,000.00	8,877.93	7,361.00	7,138.82	31.77	26.71	-61.79	-870.32	973.49	2,376.64	2,324.40	52.24	45.495		
9,100.00	8,939.44	7,361.00	7,138.82	31.70	26.71	-53.56	-870.32	973.49	2,446.45	2,398.15	48.30	50.653		
9,200.00	8,986.37	7,333.12	7,130.50	31.66	26.42	-46.79	-870.43	946.88	2,510.34	2,466.70	43.64	57.524		
9,300.00	9,017.26	7,313.00	7,123.87	31.71	26.22	-41.85	-870.40	927.88	2,566.64	2,527.00	39.65	64.736		
9,400.00	9,031.20	7,288.45	7,115.04	32.26	26.00	-38.25	-870.28	904.98	2,613.97	2,576.88	37.09	70.468		
9,500.00	9,032.00	7,266.00	7,106.20	33.25	25.79	-37.82	-870.10	884.35	2,653.97	2,616.51	37.46	70.853		
9,600.00	9,032.00	7,266.00	7,106.20	34.46	25.79	-38.51	-870.10	884.35	2,694.30	2,655.49	38.81	69.430		
9,700.00	9,032.00	7,219.00	7,084.87	35.84	25.43	-38.96	-869.84	842.49	2,734.96	2,695.11	39.85	68.624		
9,800.00	9,032.00	7,219.00	7,084.87	37.38	25.43	-39.65	-869.84	842.49	2,775.91	2,734.49	41.42	67.019		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Scientific Drilling Int.

Anticollision Report

Company: WPX Energy
Project: Eddy County, New Mexico NAD 83

Local Co-ordinate Reference: Well C 17 State 1H
TVD Reference: GL 3154 + KB 33 = @ 3187.00usft (Nabors X31)

Reference Site: C 17 State Pad

MD Reference: GL 3154 + KB 33 = @ 3187.00usft (Nabors X31)

Site Error: 0.00 usft

North Reference: Grid

Reference Well: C 17 State 1H

Survey Calculation Method: Minimum Curvature

Well Error: 0.00 usft

Output errors are at 2.00 sigma

Reference Wellbore Wellbore #1

Database: Midland District

Reference Design: Plan #1

Offset TVD Reference: Offset Datum

Offset Design C 17 State Pad - Cass 16 St. 4H - Wellbore #1 - As Drilled												Offset Site Error:	0.00 usft
Survey Program: 173-MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Minimum Separation (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)					
9,900.00	9,032.00	7,219.00	7,084.87	39.05	25.43	-40.10	-869.84	842.49	2,817.96	2,775.06	42.90	65.694	
10,000.00	9,032.00	7,171.00	7,059.12	40.84	25.11	-39.73	-870.08	802.00	2,862.06	2,818.42	43.64	65.579	
10,100.00	9,032.00	7,171.00	7,059.12	42.74	25.11	-39.73	-870.08	802.00	2,907.96	2,863.00	44.95	64.690	
10,200.00	9,032.00	7,171.00	7,059.12	44.74	25.11	-39.73	-870.08	802.00	2,956.52	2,910.20	46.33	63.817	
10,300.00	9,032.00	7,145.76	7,044.23	46.83	24.97	-39.53	-870.45	781.62	3,007.10	2,959.60	47.50	63.313	
10,400.00	9,032.00	7,124.00	7,030.81	48.99	24.84	-39.35	-870.89	764.50	3,059.80	3,011.06	48.74	62.782	
10,500.00	9,032.00	7,124.00	7,030.81	51.22	24.84	-39.35	-870.89	764.50	3,114.43	3,064.18	50.25	61.974	
10,600.00	9,032.00	7,097.38	7,013.75	53.51	24.71	-39.13	-871.62	744.09	3,170.77	3,119.25	51.52	61.547	
10,700.00	9,032.00	7,076.00	6,999.60	55.85	24.61	-38.94	-872.38	728.07	3,228.92	3,176.06	52.86	61.086	
10,800.00	9,032.00	7,076.00	6,999.60	58.23	24.61	-38.94	-872.38	728.07	3,288.76	3,234.30	54.46	60.385	
10,900.00	9,032.00	7,049.46	6,981.51	60.65	24.50	-38.72	-873.47	708.68	3,350.03	3,294.24	55.79	60.045	
11,000.00	9,032.00	7,029.00	6,967.17	63.11	24.42	-38.54	-874.39	694.12	3,412.91	3,355.71	57.20	59.668	
11,100.00	9,032.00	7,029.00	6,967.17	65.60	24.42	-38.54	-874.39	694.12	3,477.24	3,418.38	58.86	59.079	
11,200.00	9,032.00	7,006.48	6,950.97	68.12	24.34	-38.34	-875.48	678.52	3,542.86	3,482.59	60.26	58.788	
11,300.00	9,032.00	6,982.00	6,932.88	70.67	24.25	-38.12	-876.76	662.07	3,609.96	3,548.31	61.65	58.557	
11,400.00	9,032.00	6,982.00	6,932.88	73.23	24.25	-38.12	-876.76	662.07	3,678.13	3,614.79	63.34	58.069	
11,500.00	9,032.00	6,982.00	6,932.88	75.82	24.25	-38.12	-876.76	662.07	3,747.73	3,682.68	65.05	57.616	
11,600.00	9,032.00	6,960.77	6,916.74	78.42	24.18	-37.93	-877.90	648.33	3,818.30	3,751.81	66.48	57.432	
11,700.00	9,032.00	6,935.00	6,896.52	81.04	24.10	-37.69	-879.25	632.42	3,890.33	3,822.48	67.85	57.336	
11,800.00	9,032.00	6,935.00	6,896.52	83.68	24.10	-37.69	-879.25	632.42	3,963.03	3,893.45	69.57	56.962	
11,900.00	9,032.00	6,935.00	6,896.52	86.33	24.10	-37.69	-879.25	632.42	4,036.89	3,965.59	71.30	56.617	
12,000.00	9,032.00	6,935.00	6,896.52	88.99	24.10	-37.69	-879.25	632.42	4,111.86	4,038.83	73.04	56.297	
12,100.00	9,032.00	6,935.00	6,896.52	91.66	24.10	-37.69	-879.25	632.42	4,187.88	4,113.10	74.78	56.001	
12,200.00	9,032.00	6,908.20	6,874.81	94.35	24.03	-37.43	-880.61	616.77	4,264.28	4,188.16	76.12	56.021	
12,300.00	9,032.00	6,887.00	6,857.16	97.04	23.97	-37.23	-881.66	605.07	4,341.98	4,264.45	77.53	56.005	
12,400.00	9,032.00	6,887.00	6,857.16	99.74	23.97	-37.23	-881.66	605.07	4,420.21	4,340.94	79.27	55.759	
12,500.00	9,032.00	6,887.00	6,857.16	102.45	23.97	-37.23	-881.66	605.07	4,499.30	4,418.28	81.02	55.531	
12,600.00	9,032.00	6,887.00	6,857.16	105.17	23.97	-37.23	-881.66	605.07	4,579.21	4,496.43	82.78	55.320	
12,700.00	9,032.00	6,887.00	6,857.16	107.89	23.97	-37.23	-881.66	605.07	4,659.90	4,575.36	84.54	55.124	
12,800.00	9,032.00	6,887.00	6,857.16	110.62	23.97	-37.23	-881.66	605.07	4,741.32	4,655.02	86.30	54.942	
12,900.00	9,032.00	6,840.00	6,816.63	113.36	23.84	-36.76	-883.82	581.39	4,823.19	4,735.99	87.20	55.310	
13,000.00	9,032.00	6,840.00	6,816.63	116.10	23.84	-36.76	-883.82	581.39	4,905.50	4,816.54	88.96	55.145	
13,100.00	9,032.00	6,840.00	6,816.63	118.85	23.84	-36.76	-883.82	581.39	4,988.45	4,897.74	90.71	54.992	
13,200.00	9,032.00	6,840.00	6,816.63	121.60	23.84	-36.76	-883.82	581.39	5,072.02	4,979.55	92.47	54.850	
13,300.00	9,032.00	6,840.00	6,816.63	124.36	23.84	-36.76	-883.82	581.39	5,156.17	5,061.94	94.23	54.718	
13,400.00	9,032.00	6,840.00	6,816.63	127.12	23.84	-36.76	-883.82	581.39	5,240.88	5,144.88	95.99	54.596	
13,500.00	9,032.00	6,840.00	6,816.63	129.88	23.84	-36.76	-883.82	581.39	5,326.12	5,228.36	97.76	54.481	
13,600.00	9,032.00	6,840.00	6,816.63	132.65	23.84	-36.76	-883.82	581.39	5,411.86	5,312.33	99.53	54.375	
13,700.00	9,032.00	6,840.00	6,816.63	135.42	23.84	-36.76	-883.82	581.39	5,498.09	5,396.79	101.30	54.276	
13,800.00	9,032.00	6,816.70	6,795.85	138.19	23.77	-36.52	-884.75	570.91	5,584.26	5,481.70	102.56	54.449	
13,900.00	9,032.00	6,793.00	6,774.25	140.97	23.71	-36.27	-885.57	561.20	5,671.56	5,567.77	103.79	54.646	
14,000.00	9,032.00	6,793.00	6,774.25	143.75	23.71	-36.27	-885.57	561.20	5,758.76	5,653.21	105.55	54.562	
14,100.00	9,032.00	6,793.00	6,774.25	146.53	23.71	-36.27	-885.57	561.20	5,846.36	5,739.06	107.31	54.483	
14,107.04	9,032.00	6,793.00	6,774.25	146.73	23.71	-36.27	-885.57	561.20	5,852.54	5,745.11	107.43	54.478	

Scientific Drilling Int.

Anticollision Report

Company: WPX Energy
Project: Eddy County, New Mexico NAD 83

Reference Site: C 17 State Pad

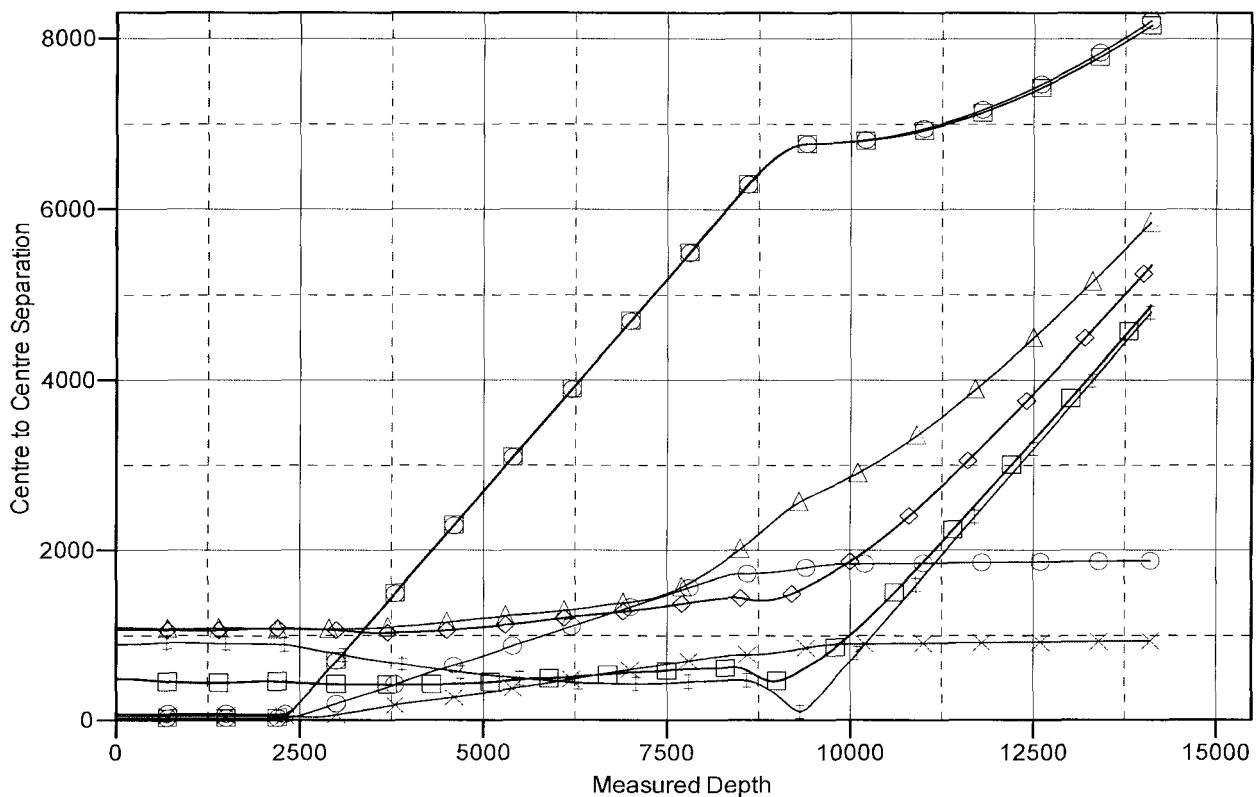
Site Error: 0.00 usft
Reference Well: C 17 State 1H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Plan #1

Local Co-ordinate Reference: Well C 17 State 1H
TVD Reference: GL 3154 + KB 33 = @ 3187.00usft (Nabors X31)
MD Reference: GL 3154 + KB 33 = @ 3187.00usft (Nabors X31)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: Midland District
Offset TVD Reference: Offset Datum

Reference Depths are relative to GL 3154 + KB 33 = @ 3187.00usft (N)
 Offset Depths are relative to Offset Datum
 Central Meridian is -104.333334

Coordinates are relative to: C 17 State 1H
 Coordinate System is US State Plane 1983, New Mexico Eastern Zone
 Grid Convergence at Surface is: 0.07°

Ladder Plot



LEGEND

-|, Wellbore #1, As Drilled V0
 -|, Wellbore #1, As Drilled V0
 , Wellbore #1, Plan #1 V0
 ◆ Cass 16 St. 3H, Wellbore #1, As Drilled V0
 ✕ Cass 16 St. 1H, Wellbore #1, Wellbore #1 V0
 □ C 17 State FUTURE 5H, Wellbore #1, Plan #1 FUTURE V0
 ○ C 17 State FUTURE 4H, Wellbore #1, F
 ✕ C 17 State 2H, Wellbore #1, Plan #1 V0

Anticollision Report

Company: WPX Energy
Project: Eddy County, New Mexico NAD 83

Reference Site: C 17 State Pad

Site Error: 0.00 usft

Reference Well: C 17 State 1H

Well Error: 0.00 usft

Reference Wellbore	Wellbore #1
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Reference Design: Plan #1

Local Co-ordinate References:

TVD Reference: GL 3154 + KB 33 = @ 3187.00usft (Nabors X31)

MD Reference: GL 3154 + KB 33 = @ 3187.00usft (Nabors X31)

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

Database: Midland District

Offset TVD Reference: Offset Datum

Reference Depths are relative to GL 3154 + KB 33 = @ 3187.00usft (N

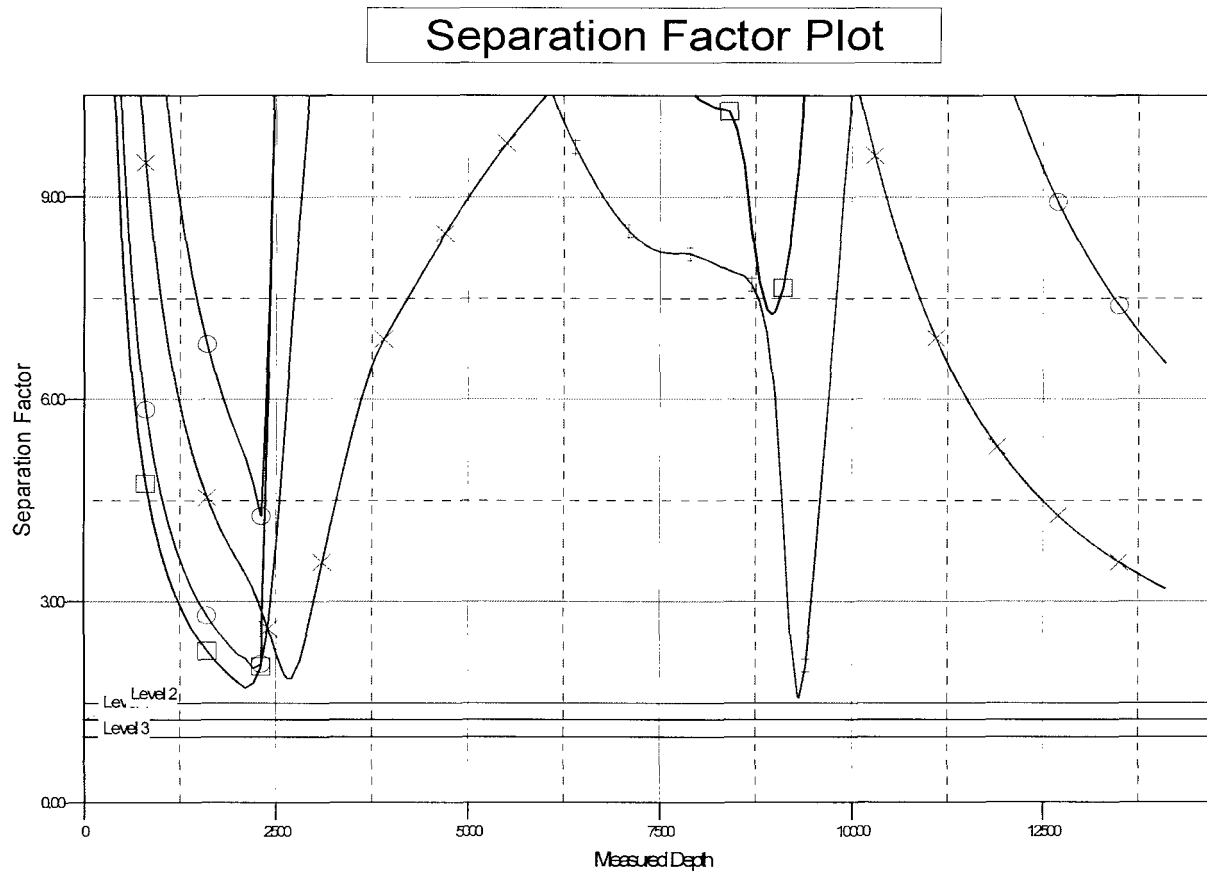
Offset Depths are relative to Offset Datum

Central Meridian is -104.333334

Coordinates are relative to: C 17 State 1H

Coordinate System is US State Plane 1983, New Mexico Eastern Zone

Grid Convergence at Surface is: 0.07°



LEGEND

-1, Wellbore #1, As Drilled V0

1. Wellbore #1, As Drilled V0

Wellbore #1, Plan #1 V0

◆ Cass 16 St. 3H, Wellbore #1, As Drilled V0

— Cass 16 St. 1H, Wellbore #1, Wellbore #1 V0

 C 17 State FUTURE 5H, Wellbore #1, Plan #1 FUTURE V0

~~●~~ C 17 State FUTURE 4H, Wellbore #1, F

~~✖~~ C 17 State 2H, Wellbore #1, Plan #1 V0