NM OIL CONSERVATION
ARTESIA DISTRICT
NOV 02 2017
RECEIVED

WPX Energy

Eddy County, New Mexico NAD 83
C 17 State Pad
C 17 State 2H
API:
Wellbore #1 30-015-44535

Plan: Plan #1

Standard Planning Report

11 October, 2017

Scientific Drilling

WPXENERGY

C 17 State 2H
Eddy County, New Mexico NAD 8
Northing: 476120.00
Easting: 580973.40
Plan #1

GL 3154 + KB 22 = @ 3176.00usft (Orion Pegasus)

Scientific Drilling

To convert Magnetic North to Grid, Add 7.31°
To convert True North to Grid, Subtract 0.07°

Azimuths to Grid North
True North: -0.07°
Magnetic North: 7.31°

Magnetic Field
Strength: 48067.8snT
Dip Angle: 60.10°
Date: 10/11/2017
Model: HDGM

WELL DETAILS C 17 State 2H

Ground Level: 3154.00

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	476120.00	580973.40	32.308862	-104.205039

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
5000.00	0.00	0.00	5000.00	0.00	0.00	0.00	0.00	0.00
5388.79	7.78	107.15	5387.60	-7.77	25.17	2.00	107.15	-25.15
8089.46	7.78	107.15	8063.44	-115.48	374.33	0.00	0.00	-373.94
8478.26	0.00	0.00	8451.04	-123.25	399.50	2.00	180.00	-399.09
9378.26	90.00	269.81	9024.00	-125.15	-173.45	10.00	269.81	173.87
13800.13	90.00	269.81	9024.00	-139.80	-4595.30	0.00	0.00	4595.74

SITE DETAILS: C 17 State Pad

Site Centre Northing: 476120.00
Easting: 580948.40

Positional Uncertainity: 0.00
Convergence: 0.07
Local North: Grid

PROJECT DETAILS: Eddy County, New Mexico NAD 83

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

DESIGN TARGET DETAILS

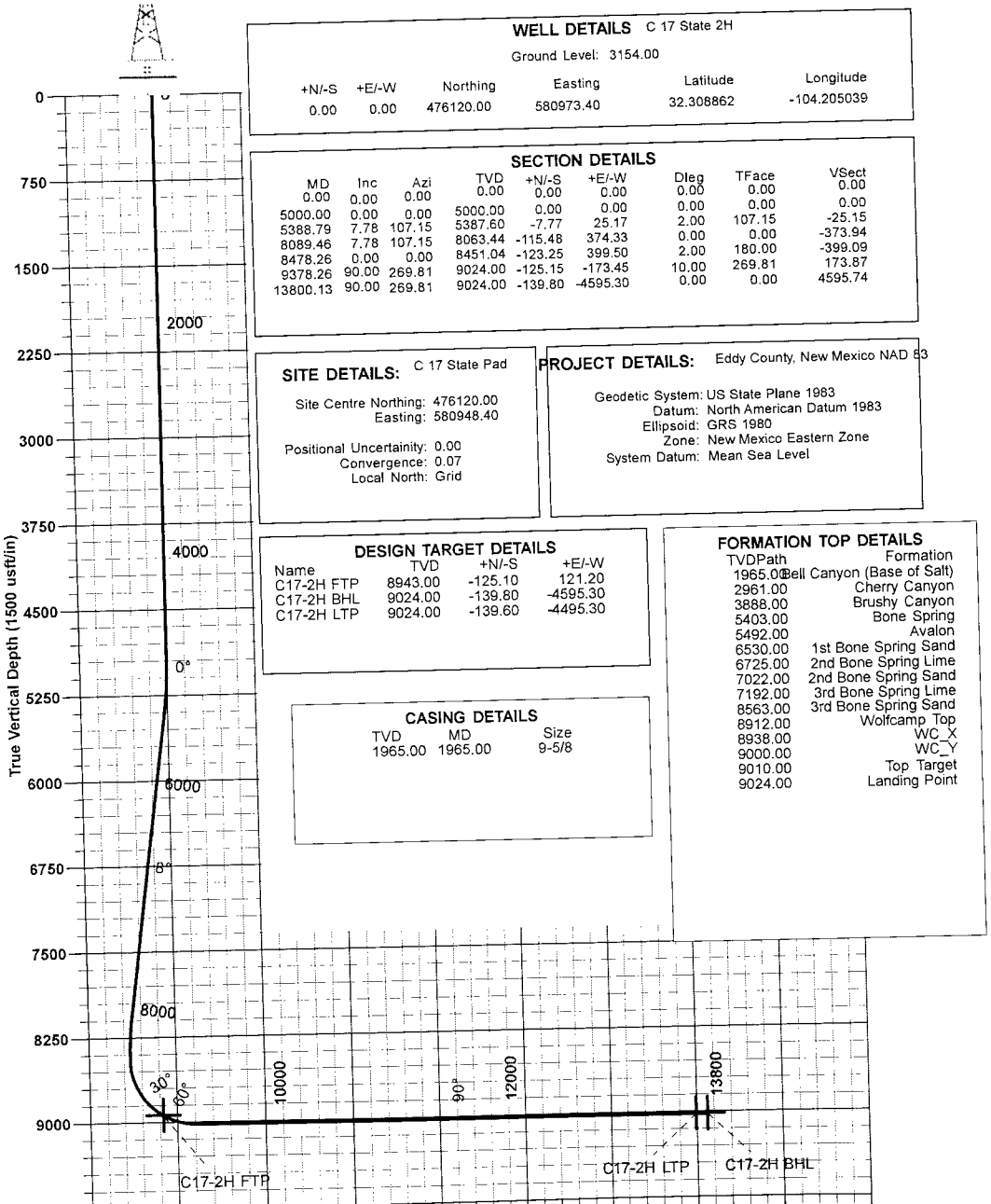
Name	TVD	+N/-S	+E/-W
C17-2H FTP	8943.00	-125.10	121.20
C17-2H BHL	9024.00	-139.80	-4595.30
C17-2H LTP	9024.00	-139.60	-4495.30

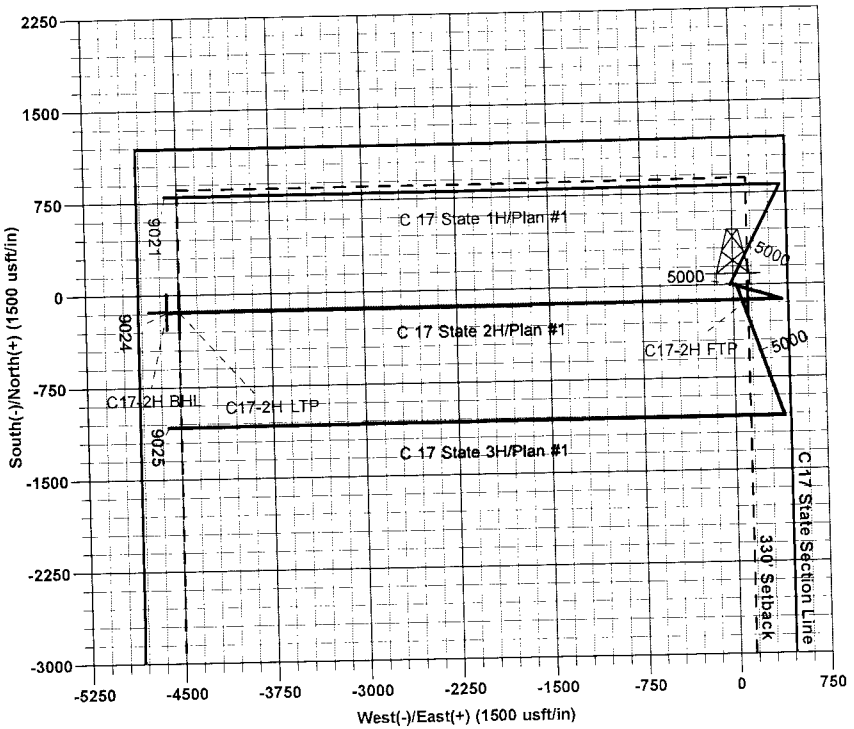
CASING DETAILS

TVD	MD	Size
1965.00	1965.00	9-5/8

FORMATION TOP DETAILS

TVDPath	Formation
1965.00	Bell Canyon (Base of Salt)
2961.00	Cherry Canyon
3888.00	Brushy Canyon
5403.00	Bone Spring
5492.00	Avalon
6530.00	1st Bone Spring Sand
6725.00	2nd Bone Spring Lime
7022.00	2nd Bone Spring Sand
7192.00	3rd Bone Spring Lime
8563.00	3rd Bone Spring Sand
8912.00	Wolfcamp Top
8938.00	WC_X
9000.00	WC_Y
9010.00	Top Target
9024.00	Landing Point





Bailey Fellows
13:03, October 11 2017
Scientific Drilling
325 S Faudree Rd.
Odessa, TX 79765

Scientific Drilling Int.

Planning Report

Database:	Midland District	**Local Co-ordinate Reference:**	Well C 17 State 2H
Company:	WPX Energy	**TVD Reference:**	GL 3154 + KB 22 = @ 3176.00usft (Orion Pegasus)
Project:	Eddy County, New Mexico NAD 83	**MD Reference:**	GL 3154 + KB 22 = @ 3176.00usft (Orion Pegasus)
Site:	C 17 State Pad	**North Reference:**	Grid
Well:	C 17 State 2H	**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 2H					
Well Position	**+N/-S**	0.00 usft	**Northing:**	476,120.00 usft	**Latitude:**	32.308862
	+E/-W	25.00 usft	**Easting:**	580,973.40 usft	**Longitude:**	-104.205039
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	10/11/2017	7.38	60.10	48,068

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	269.81	

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	
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,388.79	7.78	107.15	5,387.60	-7.77	25.17	2.00	2.00	0.00	107.15	
8,089.46	7.78	107.15	8,063.44	-115.48	374.33	0.00	0.00	0.00	0.00	
8,478.26	0.00	0.00	8,451.04	-123.25	399.50	2.00	-2.00	0.00	180.00	
9,378.26	90.00	269.81	9,024.00	-125.15	-173.45	10.00	10.00	-10.02	269.81	
13,800.13	90.00	269.81	9,024.00	-139.80	-4,595.30	0.00	0.00	0.00	0.00	C17-2H BHL

Database:	Midland District	**Local Co-ordinate Reference:**	Well C 17 State 2H
Company:	WPX Energy	**TVD Reference:**	GL 3154 + KB 22 = @ 3176.00usft (Orion Pegasus)
Project:	Eddy County, New Mexico NAD 83	**MD Reference:**	GL 3154 + KB 22 = @ 3176.00usft (Orion Pegasus)
Site:	C 17 State Pad	**North Reference:**	Grid
Well:	C 17 State 2H	**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
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
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
1,100.00	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
Bell Canyon (Base of Salt) - 9 5/8"									
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,961.00	0.00	0.00	2,961.00	0.00	0.00	0.00	0.00	0.00	0.00
Cherry Canyon									
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,888.00	0.00	0.00	3,888.00	0.00	0.00	0.00	0.00	0.00	0.00
Brushy Canyon									
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00

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Company:	WPX Energy	**TVD Reference:**	GL 3154 + KB 22 = @ 3176.00usft (Orion Pegasus)
Project:	Eddy County, New Mexico NAD 83	**MD Reference:**	GL 3154 + KB 22 = @ 3176.00usft (Orion Pegasus)
Site:	C 17 State Pad	**North Reference:**	Grid
Well:	C 17 State 2H	**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)
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	2.00	107.15	5,099.98	-0.51	1.67	-1.67	2.00	2.00	0.00
5,200.00	4.00	107.15	5,199.84	-2.06	6.67	-6.66	2.00	2.00	0.00
5,300.00	6.00	107.15	5,299.45	-4.63	15.00	-14.98	2.00	2.00	0.00
5,388.79	7.78	107.15	5,387.60	-7.77	25.17	-25.15	2.00	2.00	0.00
5,400.00	7.78	107.15	5,398.70	-8.21	26.62	-26.59	0.00	0.00	0.00
5,404.34	7.78	107.15	5,403.00	-8.39	27.18	-27.15	0.00	0.00	0.00
Bone Spring									
5,494.16	7.78	107.15	5,492.00	-11.97	38.79	-38.75	0.00	0.00	0.00
Avalon									
5,500.00	7.78	107.15	5,497.79	-12.20	39.55	-39.51	0.00	0.00	0.00
5,600.00	7.78	107.15	5,596.87	-16.19	52.48	-52.42	0.00	0.00	0.00
5,700.00	7.78	107.15	5,695.95	-20.18	65.41	-65.34	0.00	0.00	0.00
5,800.00	7.78	107.15	5,795.03	-24.17	78.33	-78.25	0.00	0.00	0.00
5,900.00	7.78	107.15	5,894.11	-28.16	91.26	-91.17	0.00	0.00	0.00
6,000.00	7.78	107.15	5,993.19	-32.14	104.19	-104.08	0.00	0.00	0.00
6,100.00	7.78	107.15	6,092.27	-36.13	117.12	-117.00	0.00	0.00	0.00
6,200.00	7.78	107.15	6,191.35	-40.12	130.05	-129.91	0.00	0.00	0.00
6,300.00	7.78	107.15	6,290.43	-44.11	142.98	-142.83	0.00	0.00	0.00
6,400.00	7.78	107.15	6,389.51	-48.10	155.91	-155.75	0.00	0.00	0.00
6,500.00	7.78	107.15	6,488.59	-52.09	168.83	-168.66	0.00	0.00	0.00
6,541.79	7.78	107.15	6,530.00	-53.75	174.24	-174.06	0.00	0.00	0.00
1st Bone Spring Sand									
6,600.00	7.78	107.15	6,587.67	-56.08	181.76	-181.58	0.00	0.00	0.00
6,700.00	7.78	107.15	6,686.75	-60.06	194.69	-194.49	0.00	0.00	0.00
6,738.60	7.78	107.15	6,725.00	-61.60	199.68	-199.48	0.00	0.00	0.00
2nd Bone Spring Lime									
6,800.00	7.78	107.15	6,785.83	-64.05	207.62	-207.41	0.00	0.00	0.00
6,900.00	7.78	107.15	6,884.91	-68.04	220.55	-220.32	0.00	0.00	0.00
7,000.00	7.78	107.15	6,983.99	-72.03	233.48	-233.24	0.00	0.00	0.00
7,038.36	7.78	107.15	7,022.00	-73.56	238.44	-238.19	0.00	0.00	0.00
2nd Bone Spring Sand									
7,100.00	7.78	107.15	7,083.07	-76.02	246.41	-246.15	0.00	0.00	0.00
7,200.00	7.78	107.15	7,182.15	-80.01	259.33	-259.07	0.00	0.00	0.00
7,209.94	7.78	107.15	7,192.00	-80.40	260.62	-260.35	0.00	0.00	0.00
3rd Bone Spring Lime									
7,300.00	7.78	107.15	7,281.23	-84.00	272.26	-271.98	0.00	0.00	0.00
7,400.00	7.78	107.15	7,380.31	-87.98	285.19	-284.90	0.00	0.00	0.00
7,500.00	7.78	107.15	7,479.40	-91.97	298.12	-297.81	0.00	0.00	0.00
7,600.00	7.78	107.15	7,578.48	-95.96	311.05	-310.73	0.00	0.00	0.00
7,700.00	7.78	107.15	7,677.56	-99.95	323.98	-323.64	0.00	0.00	0.00
7,800.00	7.78	107.15	7,776.64	-103.94	336.91	-336.56	0.00	0.00	0.00
7,900.00	7.78	107.15	7,875.72	-107.93	349.83	-349.47	0.00	0.00	0.00
8,000.00	7.78	107.15	7,974.80	-111.92	362.76	-362.39	0.00	0.00	0.00
8,089.46	7.78	107.15	8,063.44	-115.48	374.33	-373.94	0.00	0.00	0.00
8,100.00	7.57	107.15	8,073.88	-115.90	375.67	-375.29	2.00	-2.00	0.00
8,200.00	5.57	107.15	8,173.22	-119.27	386.60	-386.20	2.00	-2.00	0.00

Database:	Midland District	**Local Co-ordinate Reference:**	Well C 17 State 2H
Company:	WPX Energy	**TVD Reference:**	GL 3154 + KB 22 = @ 3176.00usft (Orion Pegasus)
Project:	Eddy County, New Mexico NAD 83	**MD Reference:**	GL 3154 + KB 22 = @ 3176.00usft (Orion Pegasus)
Site:	C 17 State Pad	**North Reference:**	Grid
Well:	C 17 State 2H	**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)
8,300.00	3.57	107.15	8,272.90	-121.62	394.20	-393.80	2.00	-2.00	0.00
8,400.00	1.57	107.15	8,372.79	-122.93	398.48	-398.07	2.00	-2.00	0.00
8,478.26	0.00	0.00	8,451.04	-123.25	399.50	-399.09	2.00	-2.00	0.00
8,500.00	2.17	269.81	8,472.78	-123.25	399.09	-398.68	10.00	10.00	0.00
8,550.00	7.17	269.81	8,522.60	-123.26	395.01	-394.60	10.00	10.00	0.00
8,590.94	11.27	269.81	8,563.00	-123.29	388.45	-388.04	10.00	10.00	0.00
3rd Bone Spring Sand									
8,600.00	12.17	269.81	8,571.87	-123.29	386.61	-386.20	10.00	10.00	0.00
8,650.00	17.17	269.81	8,620.22	-123.33	373.95	-373.54	10.00	10.00	0.00
8,700.00	22.17	269.81	8,667.29	-123.39	357.12	-356.71	10.00	10.00	0.00
8,750.00	27.17	269.81	8,712.71	-123.46	336.26	-335.85	10.00	10.00	0.00
8,800.00	32.17	269.81	8,756.14	-123.54	311.51	-311.10	10.00	10.00	0.00
8,850.00	37.17	269.81	8,797.24	-123.64	283.08	-282.67	10.00	10.00	0.00
8,900.00	42.17	269.81	8,835.72	-123.74	251.17	-250.75	10.00	10.00	0.00
8,950.00	47.17	269.81	8,871.26	-123.86	216.02	-215.61	10.00	10.00	0.00
9,000.00	52.17	269.81	8,903.61	-123.98	177.92	-177.50	10.00	10.00	0.00
9,013.90	53.56	269.81	8,912.00	-124.02	166.83	-166.42	10.00	10.00	0.00
Wolfcamp Top									
9,050.00	57.17	269.81	8,932.51	-124.12	137.14	-136.72	10.00	10.00	0.00
9,060.27	58.20	269.81	8,938.00	-124.15	128.46	-128.04	10.00	10.00	0.00
WC_X									
9,100.00	62.17	269.81	8,957.75	-124.26	93.99	-93.58	10.00	10.00	0.00
9,150.00	67.17	269.81	8,979.13	-124.41	48.81	-48.40	10.00	10.00	0.00
9,200.00	72.17	269.81	8,996.49	-124.57	1.94	-1.53	10.00	10.00	0.00
9,211.84	73.36	269.81	9,000.00	-124.60	-9.37	9.78	10.00	10.00	0.00
WC_Y									
9,250.00	77.17	269.81	9,009.70	-124.73	-46.27	46.68	10.00	10.00	0.00
9,251.35	77.31	269.81	9,010.00	-124.73	-47.58	47.99	10.00	10.00	0.00
Top Target									
9,300.00	82.17	269.81	9,018.66	-124.89	-95.44	95.85	10.00	10.00	0.00
9,350.00	87.17	269.81	9,023.30	-125.05	-145.21	145.62	10.00	10.00	0.00
9,378.26	90.00	269.81	9,024.00	-125.15	-173.45	173.87	10.00	10.00	0.00
Landing Point									
9,400.00	90.00	269.81	9,024.00	-125.22	-195.20	195.61	0.00	0.00	0.00
9,500.00	90.00	269.81	9,024.00	-125.55	-295.20	295.61	0.00	0.00	0.00
9,600.00	90.00	269.81	9,024.00	-125.88	-395.20	395.61	0.00	0.00	0.00
9,700.00	90.00	269.81	9,024.00	-126.21	-495.20	495.61	0.00	0.00	0.00
9,800.00	90.00	269.81	9,024.00	-126.55	-595.19	595.61	0.00	0.00	0.00
9,900.00	90.00	269.81	9,024.00	-126.88	-695.19	695.61	0.00	0.00	0.00
10,000.00	90.00	269.81	9,024.00	-127.21	-795.19	795.61	0.00	0.00	0.00
10,100.00	90.00	269.81	9,024.00	-127.54	-895.19	895.61	0.00	0.00	0.00
10,200.00	90.00	269.81	9,024.00	-127.87	-995.19	995.61	0.00	0.00	0.00
10,300.00	90.00	269.81	9,024.00	-128.20	-1,095.19	1,095.61	0.00	0.00	0.00
10,400.00	90.00	269.81	9,024.00	-128.53	-1,195.19	1,195.61	0.00	0.00	0.00
10,500.00	90.00	269.81	9,024.00	-128.87	-1,295.19	1,295.61	0.00	0.00	0.00
10,600.00	90.00	269.81	9,024.00	-129.20	-1,395.19	1,395.61	0.00	0.00	0.00
10,700.00	90.00	269.81	9,024.00	-129.53	-1,495.19	1,495.61	0.00	0.00	0.00
10,800.00	90.00	269.81	9,024.00	-129.86	-1,595.19	1,595.61	0.00	0.00	0.00
10,900.00	90.00	269.81	9,024.00	-130.19	-1,695.19	1,695.61	0.00	0.00	0.00
11,000.00	90.00	269.81	9,024.00	-130.52	-1,795.19	1,795.61	0.00	0.00	0.00
11,100.00	90.00	269.81	9,024.00	-130.85	-1,895.19	1,895.61	0.00	0.00	0.00

Database:	Midland District	**Local Co-ordinate Reference:**	Well C 17 State 2H
Company:	WPX Energy	**TVD Reference:**	GL 3154 + KB 22 = @ 3176.00usft (Orion Pegasus)
Project:	Eddy County, New Mexico NAD 83	**MD Reference:**	GL 3154 + KB 22 = @ 3176.00usft (Orion Pegasus)
Site:	C 17 State Pad	**North Reference:**	Grid
Well:	C 17 State 2H	**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)
11,200.00	90.00	269.81	9,024.00	-131.18	-1,995.19	1,995.61	0.00	0.00	0.00
11,300.00	90.00	269.81	9,024.00	-131.52	-2,095.19	2,095.61	0.00	0.00	0.00
11,400.00	90.00	269.81	9,024.00	-131.85	-2,195.19	2,195.61	0.00	0.00	0.00
11,500.00	90.00	269.81	9,024.00	-132.18	-2,295.19	2,295.61	0.00	0.00	0.00
11,600.00	90.00	269.81	9,024.00	-132.51	-2,395.18	2,395.61	0.00	0.00	0.00
11,700.00	90.00	269.81	9,024.00	-132.84	-2,495.18	2,495.61	0.00	0.00	0.00
11,800.00	90.00	269.81	9,024.00	-133.17	-2,595.18	2,595.61	0.00	0.00	0.00
11,900.00	90.00	269.81	9,024.00	-133.50	-2,695.18	2,695.61	0.00	0.00	0.00
12,000.00	90.00	269.81	9,024.00	-133.84	-2,795.18	2,795.61	0.00	0.00	0.00
12,100.00	90.00	269.81	9,024.00	-134.17	-2,895.18	2,895.61	0.00	0.00	0.00
12,200.00	90.00	269.81	9,024.00	-134.50	-2,995.18	2,995.61	0.00	0.00	0.00
12,300.00	90.00	269.81	9,024.00	-134.83	-3,095.18	3,095.61	0.00	0.00	0.00
12,400.00	90.00	269.81	9,024.00	-135.16	-3,195.18	3,195.61	0.00	0.00	0.00
12,500.00	90.00	269.81	9,024.00	-135.49	-3,295.18	3,295.61	0.00	0.00	0.00
12,600.00	90.00	269.81	9,024.00	-135.82	-3,395.18	3,395.61	0.00	0.00	0.00
12,700.00	90.00	269.81	9,024.00	-136.15	-3,495.18	3,495.61	0.00	0.00	0.00
12,800.00	90.00	269.81	9,024.00	-136.49	-3,595.18	3,595.61	0.00	0.00	0.00
12,900.00	90.00	269.81	9,024.00	-136.82	-3,695.18	3,695.61	0.00	0.00	0.00
13,000.00	90.00	269.81	9,024.00	-137.15	-3,795.18	3,795.61	0.00	0.00	0.00
13,100.00	90.00	269.81	9,024.00	-137.48	-3,895.18	3,895.61	0.00	0.00	0.00
13,200.00	90.00	269.81	9,024.00	-137.81	-3,995.18	3,995.61	0.00	0.00	0.00
13,300.00	90.00	269.81	9,024.00	-138.14	-4,095.18	4,095.61	0.00	0.00	0.00
13,400.00	90.00	269.81	9,024.00	-138.47	-4,195.17	4,195.61	0.00	0.00	0.00
13,500.00	90.00	269.81	9,024.00	-138.81	-4,295.17	4,295.61	0.00	0.00	0.00
13,600.00	90.00	269.81	9,024.00	-139.14	-4,395.17	4,395.61	0.00	0.00	0.00
13,700.00	90.00	269.81	9,024.00	-139.47	-4,495.17	4,495.61	0.00	0.00	0.00
13,800.13	90.00	269.81	9,024.00	-139.80	-4,595.30	4,595.74	0.00	0.00	0.00

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
C17-2H FTP	0.00	0.00	8,943.00	-125.10	121.20	475,994.90	581,094.60	32.308517	-104.204647
- plan misses target center by 1.05usft at 9069.06usft MD (8942.57 TVD, -124.17 N, 120.95 E)									
- Point									
C17-2H BHL	0.00	0.00	9,024.00	-139.80	-4,595.30	475,980.20	576,378.10	32.308492	-104.219914
- plan hits target center									
- Point									
C17-2H LTP	0.00	0.00	9,024.00	-139.60	-4,495.30	475,980.40	576,478.10	32.308492	-104.219590
- plan misses target center by 0.18usft at 13700.00usft MD (9024.00 TVD, -139.47 N, -4495.17 E)									
- Point									

Casing Points

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

Database:	Midland District	**Local Co-ordinate Reference:**	Well C 17 State 2H
Company:	WPX Energy	**TVD Reference:**	GL 3154 + KB 22 = @ 3176.00usft (Orion Pegasus)
Project:	Eddy County, New Mexico NAD 83	**MD Reference:**	GL 3154 + KB 22 = @ 3176.00usft (Orion Pegasus)
Site:	C 17 State Pad	**North Reference:**	Grid
Well:	C 17 State 2H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (bearing)
1,965.00	1,965.00	Bell Canyon (Base of Salt)			
2,961.00	2,961.00	Cherry Canyon			
3,888.00	3,888.00	Brushy Canyon			
5,404.34	5,403.00	Bone Spring			
5,494.16	5,492.00	Avalon			
6,541.79	6,530.00	1st Bone Spring Sand			
6,738.60	6,725.00	2nd Bone Spring Lime			
7,038.36	7,022.00	2nd Bone Spring Sand			
7,209.94	7,192.00	3rd Bone Spring Lime			
8,590.94	8,563.00	3rd Bone Spring Sand			
9,013.90	8,912.00	Wolfcamp Top			
9,060.27	8,938.00	WC_X			
9,211.84	9,000.00	WC_Y			
9,251.35	9,010.00	Top Target			
9,378.26	9,024.00	Landing Point			

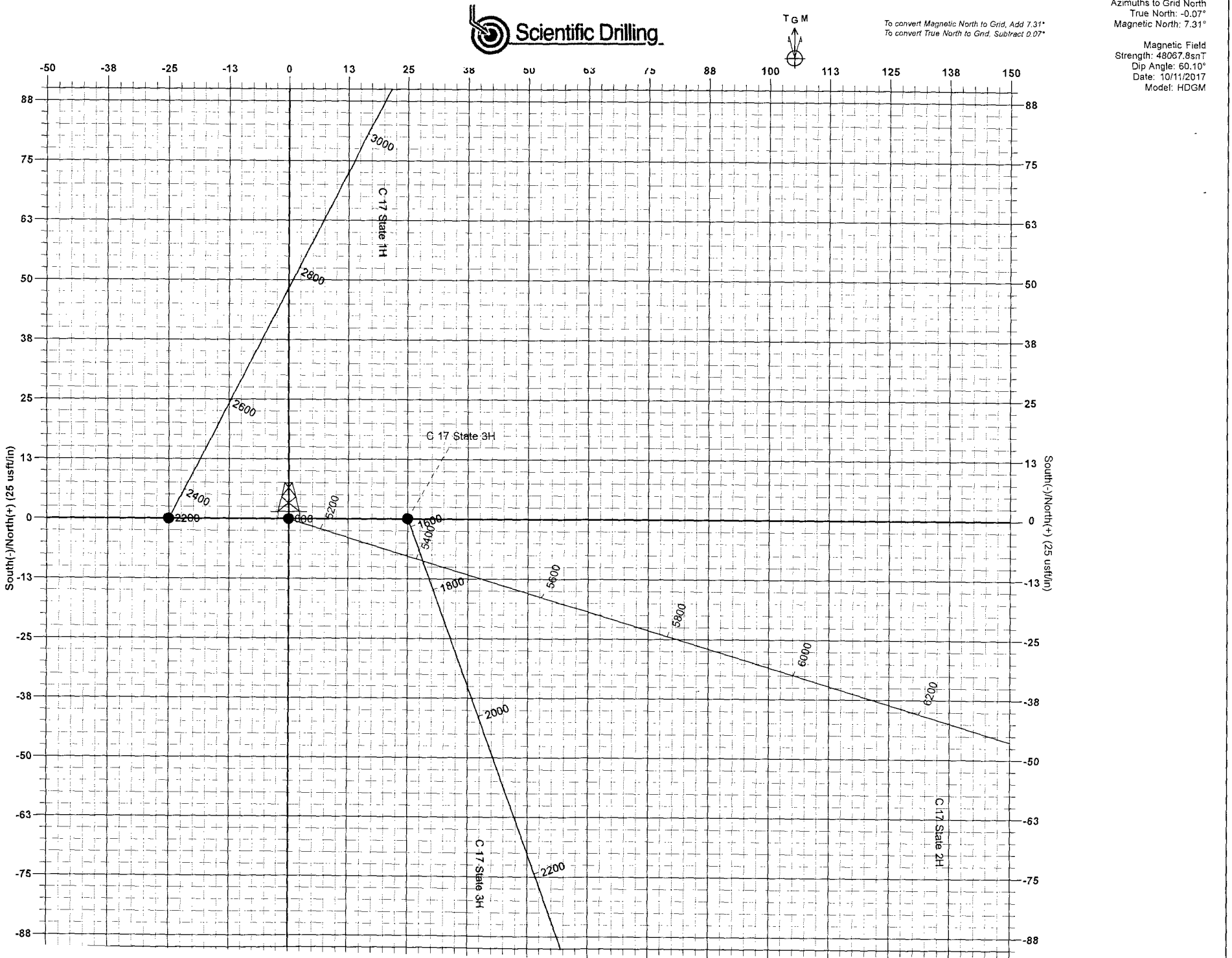
WPX Energy

Eddy County, New Mexico NAD 83
C 17 State Pad
C 17 State 2H
API:
Wellbore #1
Plan #1

Anticollision Report

11 October, 2017

Scientific Drilling


Scientific Drilling
TGM
To convert Magnetic North to Grid, Add 7.31°
To convert True North to Grid, Subtract 0.07°
Azimuths to Grid North
True North: -0.07°
Magnetic North: 7.31°
Magnetic Field
Strength: 48067.8snT
Dip Angle: 60.10°
Date: 10/11/2017
Model: HDGM
-50 -38 -25 -13 0 13 25 38 50 63 75 88 100 113 125 138 150
88 75 63 50 38 25 13 0 -13 -25 -38 -50 -63 -75 -88
South(-)/North(+) (25 usft/in)
C 17 State 1H
C 17 State 3H
C 17 State 2H
3000
2800
2600
2400
2200
2000
1800
1600
5400
5200
5600
5800
6000
6200

Scientific Drilling Int.

Anticollision Report

Company:	WPX Energy	**Local Co-ordinate Reference:**	Well C 17 State 2H
Project:	Eddy County, New Mexico NAD 83	**TVD Reference:**	GL 3154 + KB 22 = @ 3176.00usft (Orion Pegasus)
Reference Site:	C 17 State Pad	**MD Reference:**	GL 3154 + KB 22 = @ 3176.00usft (Orion Pegasus)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	C 17 State 2H	**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

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

Survey Tool Program **Date** 10/11/2017

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	13,800.13	Plan #1 (Wellbore #1)	MWD+HDGM	OWSG MWD + HDGM

Summary

Site Name / Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
C 17 State Pad						
C 17 State 1H - Wellbore #1 - Plan #1	2,456.25	2,456.59	22.21	5.04	1.293	Level 3, CC, ES
C 17 State 1H - Wellbore #1 - Plan #1	2,500.00	2,500.10	22.61	5.13	1.293	Level 3, SF
C 17 State 3H - Wellbore #1 - Plan #1	1,500.00	1,500.00	25.00	14.68	2.423	CC
C 17 State 3H - Wellbore #1 - Plan #1	1,600.00	1,599.67	25.63	14.61	2.327	ES, SF

Offset Design C 17 State Pad - C 17 State 1H - Wellbore #1 - Plan #1 — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HDGM — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance 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	0.14	0.14	-90.00	0.00	-25.00	25.00	24.72	0.28	89.411	
200.00	200.00	200.00	200.00	0.50	0.50	-90.00	0.00	-25.00	25.00	24.00	1.00	25.087	
300.00	300.00	300.00	300.00	0.86	0.86	-90.00	0.00	-25.00	25.00	23.29	1.71	14.590	
400.00	400.00	400.00	400.00	1.22	1.22	-90.00	0.00	-25.00	25.00	22.57	2.43	10.286	
500.00	500.00	500.00	500.00	1.57	1.57	-90.00	0.00	-25.00	25.00	21.85	3.15	7.943	
600.00	600.00	600.00	600.00	1.93	1.93	-90.00	0.00	-25.00	25.00	21.14	3.86	6.469	
700.00	700.00	700.00	700.00	2.29	2.29	-90.00	0.00	-25.00	25.00	20.42	4.58	5.457	
800.00	800.00	800.00	800.00	2.65	2.65	-90.00	0.00	-25.00	25.00	19.70	5.30	4.719	
900.00	900.00	900.00	900.00	3.01	3.01	-90.00	0.00	-25.00	25.00	18.98	6.02	4.156	
1,000.00	1,000.00	1,000.00	1,000.00	3.37	3.37	-90.00	0.00	-25.00	25.00	18.27	6.73	3.714	
1,100.00	1,100.00	1,100.00	1,100.00	3.72	3.72	-90.00	0.00	-25.00	25.00	17.55	7.45	3.356	
1,200.00	1,200.00	1,200.00	1,200.00	4.08	4.08	-90.00	0.00	-25.00	25.00	16.83	8.17	3.061	
1,300.00	1,300.00	1,300.00	1,300.00	4.44	4.44	-90.00	0.00	-25.00	25.00	16.12	8.88	2.814	
1,400.00	1,400.00	1,400.00	1,400.00	4.80	4.80	-90.00	0.00	-25.00	25.00	15.40	9.60	2.604	
1,500.00	1,500.00	1,500.00	1,500.00	5.16	5.16	-90.00	0.00	-25.00	25.00	14.68	10.32	2.423	
1,600.00	1,600.00	1,600.00	1,600.00	5.52	5.52	-90.00	0.00	-25.00	25.00	13.97	11.03	2.266	
1,700.00	1,700.00	1,700.00	1,700.00	5.88	5.88	-90.00	0.00	-25.00	25.00	13.25	11.75	2.128	
1,800.00	1,800.00	1,800.00	1,800.00	6.23	6.23	-90.00	0.00	-25.00	25.00	12.53	12.47	2.005	
1,900.00	1,900.00	1,900.00	1,900.00	6.59	6.59	-90.00	0.00	-25.00	25.00	11.82	13.18	1.896	
2,000.00	2,000.00	2,000.00	2,000.00	6.95	6.95	-90.00	0.00	-25.00	25.00	11.10	13.90	1.798	

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

Scientific Drilling Int.

Anticollision Report

Company:	WPX Energy	**Local Co-ordinate Reference:**	Well C 17 State 2H
Project:	Eddy County, New Mexico NAD 83	**TVD Reference:**	GL 3154 + KB 22 = @ 3176.00usft (Orion Pegasus)
Reference Site:	C 17 State Pad	**MD Reference:**	GL 3154 + KB 22 = @ 3176.00usft (Orion Pegasus)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	C 17 State 2H	**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 1H - Wellbore #1 - Plan #1 — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HDGM — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
2,100.00	2,100.00	2,100.00	2,100.00	7.31	7.31	-90.00	0.00	-25.00	25.00	10.38	14.62	1.710	
2,200.00	2,200.00	2,200.00	2,200.00	7.67	7.67	-90.00	0.00	-25.00	25.00	9.66	15.34	1.630	
2,300.00	2,300.00	2,300.36	2,300.34	8.03	8.03	-86.31	1.56	-24.19	24.25	8.19	16.05	1.510	
2,400.00	2,400.00	2,400.48	2,400.31	8.38	8.38	-74.04	6.23	-21.78	22.65	5.89	16.77	1.351	Level 3
2,456.25	2,456.25	2,456.59	2,456.25	8.59	8.58	-62.66	10.20	-19.73	22.21	5.04	17.17	1.293	Level 3, CC, ES
2,500.00	2,500.00	2,500.10	2,499.56	8.74	8.74	-51.89	13.95	-17.79	22.61	5.13	17.48	1.293	Level 3, SF
2,600.00	2,600.00	2,599.01	2,597.72	9.10	9.09	-26.45	24.64	-12.26	27.62	9.43	18.19	1.518	
2,700.00	2,700.00	2,697.50	2,695.07	9.46	9.45	-8.10	37.91	-5.39	38.61	19.71	18.90	2.043	
2,800.00	2,800.00	2,796.28	2,792.64	9.82	9.81	1.87	51.60	1.69	52.15	32.54	19.61	2.660	
2,900.00	2,900.00	2,895.05	2,890.20	10.18	10.17	7.65	65.30	8.77	66.61	46.28	20.33	3.277	
3,000.00	3,000.00	2,993.83	2,987.77	10.54	10.53	11.34	78.99	15.84	81.48	60.44	21.05	3.871	
3,100.00	3,100.00	3,092.60	3,085.33	10.89	10.90	13.89	92.68	22.92	96.59	74.82	21.77	4.437	
3,200.00	3,200.00	3,191.38	3,182.90	11.25	11.28	15.75	106.37	30.00	111.83	89.34	22.50	4.971	
3,300.00	3,300.00	3,290.15	3,280.46	11.61	11.65	17.17	120.06	37.08	127.17	103.94	23.23	5.475	
3,400.00	3,400.00	3,388.93	3,378.03	11.97	12.03	18.27	133.75	44.16	142.56	118.60	23.96	5.950	
3,500.00	3,500.00	3,487.70	3,475.59	12.33	12.41	19.17	147.44	51.24	157.99	133.30	24.69	6.398	
3,600.00	3,600.00	3,586.48	3,573.16	12.69	12.79	19.90	161.13	58.32	173.45	148.02	25.43	6.821	
3,700.00	3,700.00	3,685.25	3,670.72	13.04	13.17	20.51	174.82	65.40	188.94	162.77	26.17	7.221	
3,800.00	3,800.00	3,784.03	3,768.29	13.40	13.55	21.03	188.51	72.48	204.44	177.54	26.90	7.599	
3,900.00	3,900.00	3,882.80	3,865.85	13.76	13.94	21.48	202.21	79.56	219.96	192.32	27.64	7.957	
4,000.00	4,000.00	3,981.58	3,963.42	14.12	14.32	21.87	215.90	86.64	235.49	207.11	28.38	8.297	
4,100.00	4,100.00	4,080.35	4,060.98	14.48	14.71	22.21	229.59	93.72	251.03	221.90	29.13	8.619	
4,200.00	4,200.00	4,179.13	4,158.55	14.84	15.10	22.51	243.28	100.80	266.58	236.71	29.87	8.925	
4,300.00	4,300.00	4,277.90	4,256.11	15.20	15.49	22.77	256.97	107.88	282.13	251.52	30.61	9.216	
4,400.00	4,400.00	4,376.68	4,353.68	15.55	15.88	23.01	270.66	114.96	297.69	266.33	31.36	9.493	
4,500.00	4,500.00	4,475.45	4,451.24	15.91	16.27	23.23	284.35	122.04	313.25	281.15	32.10	9.757	
4,600.00	4,600.00	4,574.23	4,548.81	16.27	16.66	23.42	298.04	129.12	328.82	295.97	32.85	10.009	
4,700.00	4,700.00	4,673.00	4,646.37	16.63	17.05	23.60	311.73	136.20	344.39	310.79	33.60	10.250	
4,800.00	4,800.00	4,771.78	4,743.94	16.99	17.44	23.76	325.42	143.28	359.96	325.62	34.35	10.480	
4,900.00	4,900.00	4,870.55	4,841.50	17.35	17.84	23.91	339.11	150.36	375.54	340.44	35.09	10.701	
5,000.00	5,000.00	4,969.33	4,939.07	17.70	18.23	24.05	352.81	157.44	391.12	355.27	35.84	10.912	
5,100.00	5,099.98	5,068.13	5,036.66	18.05	18.63	-82.91	366.50	164.52	406.49	370.42	36.07	11.270	
5,200.00	5,199.84	5,166.91	5,134.23	18.39	19.02	-83.20	380.19	171.60	421.45	384.68	36.77	11.461	
5,300.00	5,299.45	5,265.54	5,231.66	18.73	19.42	-83.91	393.86	178.67	436.10	398.62	37.48	11.636	
5,400.00	5,398.70	5,363.92	5,328.82	19.07	19.81	-85.02	407.50	185.72	450.57	412.38	38.19	11.799	
5,500.00	5,497.79	5,462.16	5,425.86	19.41	20.21	-86.48	421.12	192.77	465.20	426.31	38.89	11.961	
5,600.00	5,596.87	5,560.40	5,522.90	19.76	20.60	-87.85	434.73	199.81	480.11	440.51	39.60	12.124	
5,700.00	5,695.95	5,658.64	5,619.94	20.10	21.00	-89.14	448.35	206.85	495.28	454.97	40.31	12.286	
5,800.00	5,795.03	5,756.88	5,716.97	20.45	21.39	-90.35	461.97	213.89	510.68	469.65	41.03	12.447	
5,900.00	5,894.11	5,855.12	5,814.01	20.81	21.79	-91.49	475.58	220.93	526.29	484.54	41.75	12.607	
6,000.00	5,993.19	5,953.36	5,911.05	21.16	22.19	-92.57	489.20	227.97	542.10	499.63	42.47	12.765	
6,100.00	6,092.27	6,051.60	6,008.08	21.52	22.58	-93.58	502.82	235.01	558.08	514.89	43.19	12.921	
6,200.00	6,191.35	6,149.84	6,105.12	21.87	22.98	-94.54	516.43	242.06	574.23	530.31	43.92	13.076	
6,300.00	6,290.43	6,248.08	6,202.16	22.23	23.38	-95.45	530.05	249.10	590.52	545.88	44.64	13.228	
6,400.00	6,389.51	6,346.32	6,299.20	22.59	23.78	-96.30	543.67	256.14	606.95	561.58	45.37	13.377	
6,500.00	6,488.59	6,444.56	6,396.23	22.95	24.17	-97.12	557.29	263.18	623.51	577.41	46.10	13.524	
6,600.00	6,587.67	6,542.80	6,493.27	23.32	24.57	-97.89	570.90	270.22	640.19	593.35	46.84	13.668	
6,700.00	6,686.75	6,641.04	6,590.31	23.68	24.97	-98.62	584.52	277.26	656.97	609.40	47.57	13.810	
6,800.00	6,785.83	6,739.29	6,687.34	24.05	25.37	-99.31	598.14	284.30	673.85	625.54	48.31	13.949	
6,900.00	6,884.91	6,837.53	6,784.38	24.42	25.77	-99.98	611.75	291.35	690.82	641.78	49.05	14.085	
7,000.00	6,983.99	6,935.77	6,881.42	24.79	26.17	-100.61	625.37	298.39	707.89	658.10	49.79	14.219	

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

Scientific Drilling Int.

Anticollision Report

Company:	WPX Energy	**Local Co-ordinate Reference:**	Well C 17 State 2H
Project:	Eddy County, New Mexico NAD 83	**TVD Reference:**	GL 3154 + KB 22 = @ 3176.00usft (Orion Pegasus)
Reference Site:	C 17 State Pad	**MD Reference:**	GL 3154 + KB 22 = @ 3176.00usft (Orion Pegasus)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	C 17 State 2H	**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 1H - Wellbore #1 - Plan #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HDGM

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
7,100.00	7,083.07	7,034.01	6,978.46	25.16	26.57	-101.21	638.99	305.43	725.02	674.50	50.53	14.350	
7,200.00	7,182.15	7,132.25	7,075.49	25.53	26.97	-101.78	652.60	312.47	742.24	690.97	51.27	14.478	
7,300.00	7,281.23	7,230.49	7,172.53	25.90	27.36	-102.33	666.22	319.51	759.52	707.51	52.01	14.603	
7,400.00	7,380.31	7,328.73	7,269.57	26.27	27.76	-102.85	679.84	326.55	776.87	724.11	52.76	14.726	
7,500.00	7,479.40	7,426.97	7,366.60	26.65	28.16	-103.35	693.45	333.60	794.28	740.78	53.50	14.846	
7,600.00	7,578.48	7,525.21	7,463.64	27.02	28.56	-103.83	707.07	340.64	811.74	757.49	54.25	14.964	
7,700.00	7,677.56	7,623.45	7,560.68	27.40	28.96	-104.29	720.69	347.68	829.26	774.26	55.00	15.079	
7,800.00	7,776.64	7,721.69	7,657.72	27.77	29.37	-104.72	734.30	354.72	846.82	791.08	55.74	15.191	
7,900.00	7,875.72	7,819.93	7,754.75	28.15	29.77	-105.15	747.92	361.76	864.44	807.94	56.49	15.302	
8,000.00	7,974.80	7,918.17	7,851.79	28.53	30.17	-105.55	761.54	368.80	882.09	824.85	57.24	15.409	
8,100.00	8,073.88	8,016.42	7,948.83	28.91	30.57	-105.98	775.16	375.84	899.79	841.79	58.00	15.514	
8,200.00	8,173.22	8,132.97	8,064.07	29.28	31.04	-106.60	790.69	383.88	916.49	857.63	58.86	15.571	
8,300.00	8,272.90	8,271.95	8,202.19	29.65	31.57	-107.06	804.26	390.90	928.58	868.80	59.78	15.534	
8,400.00	8,372.79	8,412.18	8,342.14	30.00	32.08	-107.31	811.91	394.85	935.36	874.68	60.67	15.417	
8,500.00	8,472.78	8,542.79	8,472.72	30.35	32.51	89.95	813.65	395.22	936.91	875.42	61.49	15.237	
8,600.00	8,571.87	8,642.52	8,571.47	30.66	32.80	89.92	813.61	382.30	936.92	874.81	62.10	15.087	
8,700.00	8,667.29	8,742.16	8,666.42	30.95	33.04	89.89	813.53	352.50	936.94	874.27	62.66	14.952	
8,800.00	8,756.14	8,841.73	8,754.73	31.22	33.24	89.87	813.41	306.76	936.96	873.77	63.19	14.827	
8,900.00	8,835.72	8,941.24	8,833.75	31.51	33.39	89.85	813.25	246.48	937.00	873.26	63.75	14.699	
9,000.00	8,903.61	9,040.72	8,901.14	31.85	33.51	89.83	813.05	173.48	937.05	872.64	64.41	14.549	
9,100.00	8,957.75	9,140.17	8,954.89	32.31	33.60	89.82	812.83	89.96	937.10	871.82	65.28	14.354	
9,200.00	8,996.49	9,239.60	8,993.42	32.93	33.79	89.81	812.58	-1.58	937.16	870.69	66.47	14.098	
9,300.00	9,018.66	9,339.05	9,015.55	33.74	34.32	89.81	812.32	-98.40	937.22	869.19	68.02	13.778	
9,400.00	9,024.00	9,438.62	9,021.00	34.72	35.20	89.82	812.05	-197.72	937.28	867.36	69.92	13.405	
9,500.00	9,024.00	9,538.62	9,021.00	35.89	36.30	89.82	811.78	-297.72	937.34	865.15	72.19	12.984	
9,600.00	9,024.00	9,638.62	9,021.00	37.23	37.59	89.82	811.51	-397.72	937.40	862.59	74.81	12.530	
9,700.00	9,024.00	9,738.62	9,021.00	38.74	39.04	89.82	811.24	-497.72	937.46	859.70	77.77	12.055	
9,800.00	9,024.00	9,838.62	9,021.00	40.40	40.64	89.82	810.97	-597.72	937.53	856.51	81.01	11.573	
9,900.00	9,024.00	9,938.62	9,021.00	42.18	42.37	89.82	810.70	-697.72	937.59	853.07	84.52	11.093	
10,000.00	9,024.00	10,038.62	9,021.00	44.07	44.21	89.82	810.43	-797.72	937.65	849.40	88.25	10.625	
10,100.00	9,024.00	10,138.62	9,021.00	46.06	46.16	89.82	810.16	-897.72	937.71	845.53	92.19	10.172	
10,200.00	9,024.00	10,238.62	9,021.00	48.14	48.19	89.82	809.89	-997.72	937.77	841.48	96.30	9.738	
10,300.00	9,024.00	10,338.62	9,021.00	50.30	50.31	89.82	809.62	-1,097.72	937.84	837.27	100.56	9.326	
10,400.00	9,024.00	10,438.62	9,021.00	52.52	52.49	89.82	809.36	-1,197.72	937.90	832.93	104.96	8.935	
10,500.00	9,024.00	10,538.62	9,021.00	54.80	54.73	89.82	809.09	-1,297.72	937.96	828.47	109.48	8.567	
10,600.00	9,024.00	10,638.62	9,021.00	57.12	57.03	89.82	808.82	-1,397.72	938.02	823.91	114.11	8.220	
10,700.00	9,024.00	10,738.62	9,021.00	59.50	59.37	89.82	808.55	-1,497.72	938.08	819.25	118.83	7.894	
10,800.00	9,024.00	10,838.62	9,021.00	61.91	61.76	89.82	808.28	-1,597.72	938.14	814.51	123.63	7.588	
10,900.00	9,024.00	10,938.62	9,021.00	64.36	64.19	89.82	808.01	-1,697.72	938.21	809.70	128.50	7.301	
11,000.00	9,024.00	11,038.62	9,021.00	66.84	66.64	89.82	807.74	-1,797.72	938.27	804.82	133.44	7.031	
11,100.00	9,024.00	11,138.62	9,021.00	69.35	69.13	89.82	807.47	-1,897.72	938.33	799.89	138.44	6.778	
11,200.00	9,024.00	11,238.62	9,021.00	71.89	71.65	89.82	807.20	-1,997.72	938.39	794.90	143.49	6.540	
11,300.00	9,024.00	11,338.62	9,021.00	74.44	74.18	89.82	806.93	-2,097.72	938.45	789.87	148.59	6.316	
11,400.00	9,024.00	11,438.62	9,021.00	77.02	76.75	89.82	806.66	-2,197.72	938.52	784.79	153.72	6.105	
11,500.00	9,024.00	11,538.62	9,021.00	79.62	79.32	89.82	806.39	-2,297.72	938.58	779.68	158.90	5.907	
11,600.00	9,024.00	11,638.62	9,021.00	82.23	81.92	89.82	806.12	-2,397.71	938.64	774.53	164.11	5.720	
11,700.00	9,024.00	11,738.62	9,021.00	84.86	84.54	89.82	805.85	-2,497.71	938.70	769.35	169.35	5.543	
11,800.00	9,024.00	11,838.62	9,021.00	87.50	87.16	89.82	805.58	-2,597.71	938.76	764.14	174.62	5.376	
11,900.00	9,024.00	11,938.62	9,021.00	90.15	89.80	89.82	805.31	-2,697.71	938.82	758.91	179.92	5.218	
12,000.00	9,024.00	12,038.62	9,021.00	92.82	92.46	89.82	805.04	-2,797.71	938.89	753.65	185.24	5.069	

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

Scientific Drilling Int.

Anticollision Report

Company:	WPX Energy	**Local Co-ordinate Reference:**	Well C 17 State 2H
Project:	Eddy County, New Mexico NAD 83	**TVD Reference:**	GL 3154 + KB 22 = @ 3176.00usft (Orion Pegasus)
Reference Site:	C 17 State Pad	**MD Reference:**	GL 3154 + KB 22 = @ 3176.00usft (Orion Pegasus)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	C 17 State 2H	**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 1H - Wellbore #1 - Plan #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HDGM

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
12,100.00	9,024.00	12,138.62	9,021.00	95.49	95.12	89.82	804.77	-2,897.71	938.95	748.37	190.58	4.927	
12,200.00	9,024.00	12,238.62	9,021.00	98.18	97.80	89.82	804.50	-2,997.71	939.01	743.07	195.94	4.792	
12,300.00	9,024.00	12,338.62	9,021.00	100.88	100.48	89.82	804.23	-3,097.71	939.07	737.75	201.32	4.665	
12,400.00	9,024.00	12,438.62	9,021.00	103.58	103.18	89.82	803.96	-3,197.71	939.13	732.42	206.72	4.543	
12,500.00	9,024.00	12,538.62	9,021.00	106.29	105.88	89.82	803.69	-3,297.71	939.20	727.07	212.13	4.427	
12,600.00	9,024.00	12,638.62	9,021.00	109.00	108.59	89.82	803.43	-3,397.71	939.26	721.70	217.56	4.317	
12,700.00	9,024.00	12,738.62	9,021.00	111.73	111.30	89.82	803.16	-3,497.71	939.32	716.32	223.00	4.212	
12,800.00	9,024.00	12,838.62	9,021.00	114.46	114.02	89.82	802.89	-3,597.71	939.38	710.93	228.45	4.112	
12,900.00	9,024.00	12,938.62	9,021.00	117.19	116.75	89.82	802.62	-3,697.71	939.44	705.53	233.91	4.016	
13,000.00	9,024.00	13,038.62	9,021.00	119.93	119.49	89.82	802.35	-3,797.71	939.50	700.12	239.39	3.925	
13,100.00	9,024.00	13,138.62	9,021.00	122.68	122.22	89.82	802.08	-3,897.71	939.57	694.69	244.87	3.837	
13,200.00	9,024.00	13,238.62	9,021.00	125.43	124.97	89.82	801.81	-3,997.71	939.63	689.26	250.37	3.753	
13,300.00	9,024.00	13,338.62	9,021.00	128.18	127.72	89.82	801.54	-4,097.71	939.69	683.82	255.87	3.673	
13,400.00	9,024.00	13,438.62	9,021.00	130.94	130.47	89.82	801.27	-4,197.71	939.75	678.37	261.38	3.595	
13,500.00	9,024.00	13,538.62	9,021.00	133.70	133.23	89.82	801.00	-4,297.71	939.81	672.91	266.90	3.521	
13,600.00	9,024.00	13,638.62	9,021.00	136.47	135.99	89.82	800.73	-4,397.71	939.88	667.45	272.43	3.450	
13,700.00	9,024.00	13,738.62	9,021.00	139.24	138.75	89.82	800.46	-4,497.71	939.94	661.98	277.96	3.382	
13,749.07	9,024.00	13,787.70	9,021.00	140.60	140.11	89.82	800.33	-4,546.78	939.97	659.29	280.68	3.349	
13,799.97	9,024.00	13,835.22	9,021.00	142.01	141.42	89.82	800.20	-4,594.30	940.00	656.60	283.40	3.317	
13,800.13	9,024.00	13,835.22	9,021.00	142.01	141.42	89.82	800.20	-4,594.30	940.01	656.60	283.41	3.317	

Scientific Drilling Int.

Anticollision Report

Company:	WPX Energy	**Local Co-ordinate Reference:**	Well C 17 State 2H
Project:	Eddy County, New Mexico NAD 83	**TVD Reference:**	GL 3154 + KB 22 = @ 3176.00usft (Orion Pegasus)
Reference Site:	C 17 State Pad	**MD Reference:**	GL 3154 + KB 22 = @ 3176.00usft (Orion Pegasus)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	C 17 State 2H	**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-MWD+HDGM — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	89.77	0.10	25.00	25.00				
100.00	100.00	100.00	100.00	0.14	0.14	89.77	0.10	25.00	25.00	24.72	0.28	89.412	
200.00	200.00	200.00	200.00	0.50	0.50	89.77	0.10	25.00	25.00	24.00	1.00	25.087	
300.00	300.00	300.00	300.00	0.86	0.86	89.77	0.10	25.00	25.00	23.29	1.71	14.590	
400.00	400.00	400.00	400.00	1.22	1.22	89.77	0.10	25.00	25.00	22.57	2.43	10.286	
500.00	500.00	500.00	500.00	1.57	1.57	89.77	0.10	25.00	25.00	21.85	3.15	7.943	
600.00	600.00	600.00	600.00	1.93	1.93	89.77	0.10	25.00	25.00	21.14	3.86	6.469	
700.00	700.00	700.00	700.00	2.29	2.29	89.77	0.10	25.00	25.00	20.42	4.58	5.457	
800.00	800.00	800.00	800.00	2.65	2.65	89.77	0.10	25.00	25.00	19.70	5.30	4.719	
900.00	900.00	900.00	900.00	3.01	3.01	89.77	0.10	25.00	25.00	18.99	6.02	4.156	
1,000.00	1,000.00	1,000.00	1,000.00	3.37	3.37	89.77	0.10	25.00	25.00	18.27	6.73	3.714	
1,100.00	1,100.00	1,100.00	1,100.00	3.72	3.72	89.77	0.10	25.00	25.00	17.55	7.45	3.356	
1,200.00	1,200.00	1,200.00	1,200.00	4.08	4.08	89.77	0.10	25.00	25.00	16.83	8.17	3.062	
1,300.00	1,300.00	1,300.00	1,300.00	4.44	4.44	89.77	0.10	25.00	25.00	16.12	8.88	2.814	
1,400.00	1,400.00	1,400.00	1,400.00	4.80	4.80	89.77	0.10	25.00	25.00	15.40	9.60	2.604	
1,500.00	1,500.00	1,500.00	1,500.00	5.16	5.16	89.77	0.10	25.00	25.00	14.68	10.32	2.423	CC
1,600.00	1,600.00	1,599.67	1,599.65	5.52	5.50	93.43	-1.53	25.58	25.63	14.61	11.02	2.327	ES, SF
1,700.00	1,700.00	1,699.10	1,698.94	5.88	5.82	103.22	-6.42	27.32	28.08	16.38	11.70	2.400	
1,800.00	1,800.00	1,798.05	1,797.52	6.23	6.15	115.64	-14.49	30.19	33.58	21.20	12.39	2.711	
1,900.00	1,900.00	1,896.30	1,895.04	6.59	6.48	126.93	-25.68	34.17	43.04	29.96	13.07	3.292	
2,000.00	2,000.00	1,993.61	1,991.18	6.95	6.82	135.47	-39.87	39.22	56.62	42.85	13.77	4.113	
2,100.00	2,100.00	2,092.07	2,088.15	7.31	7.17	141.20	-55.86	44.91	72.65	58.18	14.47	5.020	
2,200.00	2,200.00	2,190.57	2,185.18	7.67	7.53	144.85	-71.86	50.60	89.13	73.95	15.18	5.871	
2,300.00	2,300.00	2,289.07	2,282.21	8.03	7.89	147.35	-87.86	56.29	105.86	89.96	15.90	6.658	
2,400.00	2,400.00	2,387.57	2,379.23	8.38	8.26	149.17	-103.86	61.99	122.72	106.10	16.62	7.382	
2,500.00	2,500.00	2,486.08	2,476.26	8.74	8.64	150.55	-119.87	67.68	139.68	122.33	17.35	8.049	
2,600.00	2,600.00	2,584.58	2,573.29	9.10	9.02	151.63	-135.87	73.37	156.71	138.62	18.09	8.663	
2,700.00	2,700.00	2,683.08	2,670.31	9.46	9.40	152.50	-151.87	79.07	173.77	154.95	18.83	9.230	
2,800.00	2,800.00	2,781.58	2,767.34	9.82	9.79	153.21	-167.87	84.76	190.87	171.30	19.57	9.754	
2,900.00	2,900.00	2,880.08	2,864.37	10.18	10.18	153.81	-183.87	90.45	207.99	187.68	20.31	10.239	
3,000.00	3,000.00	2,978.59	2,961.40	10.54	10.58	154.31	-199.87	96.14	225.13	204.07	21.06	10.689	
3,100.00	3,100.00	3,077.09	3,058.42	10.89	10.97	154.74	-215.88	101.84	242.28	220.47	21.81	11.108	
3,200.00	3,200.00	3,175.59	3,155.45	11.25	11.37	155.12	-231.88	107.53	259.45	236.89	22.56	11.498	
3,300.00	3,300.00	3,274.09	3,252.48	11.61	11.77	155.45	-247.88	113.22	276.63	253.31	23.32	11.863	
3,400.00	3,400.00	3,372.60	3,349.50	11.97	12.18	155.74	-263.88	118.92	293.81	269.73	24.07	12.204	
3,500.00	3,500.00	3,471.10	3,446.53	12.33	12.58	156.00	-279.88	124.61	311.00	286.17	24.83	12.524	
3,600.00	3,600.00	3,569.60	3,543.56	12.69	12.99	156.23	-295.88	130.30	328.19	302.60	25.59	12.824	
3,700.00	3,700.00	3,668.10	3,640.58	13.04	13.39	156.44	-311.89	136.00	345.39	319.04	26.35	13.107	
3,800.00	3,800.00	3,766.60	3,737.61	13.40	13.80	156.63	-327.89	141.69	362.60	335.49	27.11	13.373	
3,900.00	3,900.00	3,865.11	3,834.64	13.76	14.21	156.80	-343.89	147.38	379.81	351.93	27.88	13.625	
4,000.00	4,000.00	3,963.61	3,931.67	14.12	14.62	156.96	-359.89	153.07	397.02	368.38	28.64	13.862	
4,100.00	4,100.00	4,062.11	4,028.69	14.48	15.03	157.10	-375.89	158.77	414.23	384.83	29.41	14.087	
4,200.00	4,200.00	4,160.61	4,125.72	14.84	15.45	157.23	-391.89	164.46	431.45	401.27	30.17	14.300	
4,300.00	4,300.00	4,259.12	4,222.75	15.20	15.86	157.36	-407.90	170.15	448.66	417.73	30.94	14.502	
4,400.00	4,400.00	4,357.62	4,319.77	15.55	16.27	157.47	-423.90	175.85	465.88	434.18	31.70	14.695	
4,500.00	4,500.00	4,456.12	4,416.80	15.91	16.69	157.57	-439.90	181.54	483.10	450.63	32.47	14.878	
4,600.00	4,600.00	4,554.62	4,513.83	16.27	17.10	157.67	-455.90	187.23	500.33	467.09	33.24	15.052	
4,700.00	4,700.00	4,653.13	4,610.85	16.63	17.52	157.76	-471.90	192.92	517.55	483.54	34.01	15.218	
4,800.00	4,800.00	4,751.63	4,707.88	16.99	17.94	157.85	-487.90	198.62	534.78	500.00	34.78	15.376	
4,900.00	4,900.00	4,850.13	4,804.91	17.35	18.35	157.93	-503.91	204.31	552.00	516.45	35.55	15.528	
5,000.00	5,000.00	4,948.63	4,901.94	17.70	18.77	158.01	-519.91	210.00	569.23	532.91	36.32	15.673	

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

Scientific Drilling Int.

Anticollision Report

Company:	WPX Energy	**Local Co-ordinate Reference:**	Well C 17 State 2H
Project:	Eddy County, New Mexico NAD 83	**TVD Reference:**	GL 3154 + KB 22 = @ 3176.00usft (Orion Pegasus)
Reference Site:	C 17 State Pad	**MD Reference:**	GL 3154 + KB 22 = @ 3176.00usft (Orion Pegasus)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	C 17 State 2H	**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-MWD+HDGM

Offset Well Error: *0.00 usft*

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,099.98	5,047.29	4,999.12	18.05	19.19	50.81	-535.93	215.71	585.37	549.54	35.83	16.336	
5,200.00	5,199.84	5,146.20	5,096.54	18.39	19.61	51.05	-552.00	221.42	599.36	562.80	36.55	16.396	
5,300.00	5,299.45	5,245.22	5,194.08	18.73	20.03	51.55	-568.09	227.14	611.23	573.97	37.26	16.404	
5,400.00	5,398.70	5,344.24	5,291.62	19.07	20.45	52.33	-584.17	232.87	621.08	583.12	37.96	16.362	
5,500.00	5,497.79	5,443.23	5,389.13	19.41	20.87	53.31	-600.25	238.59	630.26	591.59	38.67	16.299	
5,600.00	5,596.87	5,542.22	5,486.63	19.76	21.30	54.27	-616.34	244.31	639.63	600.25	39.38	16.241	
5,700.00	5,695.95	5,641.21	5,584.14	20.10	21.72	55.20	-632.42	250.03	649.17	609.07	40.10	16.189	
5,800.00	5,795.03	5,740.20	5,681.65	20.45	22.14	56.10	-648.50	255.75	658.88	618.06	40.82	16.142	
5,900.00	5,894.11	5,839.20	5,779.16	20.81	22.56	56.98	-664.58	261.47	668.74	627.20	41.54	16.098	
6,000.00	5,993.19	5,938.19	5,876.67	21.16	22.99	57.83	-680.66	267.19	678.76	636.50	42.27	16.059	
6,100.00	6,092.27	6,037.18	5,974.18	21.52	23.41	58.66	-696.74	272.92	688.93	645.93	42.99	16.024	
6,200.00	6,191.35	6,136.17	6,071.69	21.87	23.83	59.46	-712.82	278.64	699.23	655.51	43.72	15.992	
6,300.00	6,290.43	6,235.16	6,169.20	22.23	24.26	60.24	-728.90	284.36	709.67	665.21	44.46	15.963	
6,400.00	6,389.51	6,334.15	6,266.71	22.59	24.68	61.00	-744.98	290.08	720.23	675.04	45.19	15.937	
6,500.00	6,488.59	6,433.15	6,364.22	22.95	25.10	61.74	-761.07	295.80	730.92	684.99	45.93	15.914	
6,600.00	6,587.67	6,532.14	6,461.73	23.32	25.53	62.45	-777.15	301.52	741.72	695.05	46.67	15.893	
6,700.00	6,686.75	6,631.13	6,559.23	23.68	25.95	63.14	-793.23	307.24	752.63	705.22	47.41	15.874	
6,800.00	6,785.83	6,730.12	6,656.74	24.05	26.38	63.82	-809.31	312.96	763.65	715.50	48.16	15.858	
6,900.00	6,884.91	6,829.11	6,754.25	24.42	26.80	64.47	-825.39	318.69	774.78	725.87	48.90	15.843	
7,000.00	6,983.99	6,928.10	6,851.76	24.79	27.23	65.11	-841.47	324.41	786.00	736.35	49.65	15.830	
7,100.00	7,083.07	7,027.10	6,949.27	25.16	27.65	65.73	-857.55	330.13	797.31	746.91	50.40	15.819	
7,200.00	7,182.15	7,126.09	7,046.78	25.53	28.08	66.33	-873.63	335.85	808.72	757.56	51.15	15.809	
7,300.00	7,281.23	7,225.08	7,144.29	25.90	28.50	66.91	-889.72	341.57	820.21	768.30	51.91	15.801	
7,400.00	7,380.31	7,324.07	7,241.80	26.27	28.93	67.48	-905.80	347.29	831.78	779.12	52.66	15.794	
7,500.00	7,479.40	7,423.06	7,339.31	26.65	29.35	68.03	-921.88	353.01	843.43	790.01	53.42	15.788	
7,600.00	7,578.48	7,522.06	7,436.82	27.02	29.78	68.57	-937.96	358.73	855.16	800.98	54.18	15.783	
7,700.00	7,677.56	7,621.05	7,534.32	27.40	30.20	69.10	-954.04	364.45	866.96	812.02	54.94	15.779	
7,800.00	7,776.64	7,720.04	7,631.83	27.77	30.63	69.60	-970.12	370.18	878.83	823.13	55.71	15.777	
7,900.00	7,875.72	7,819.03	7,729.34	28.15	31.06	70.10	-986.20	375.90	890.77	834.30	56.47	15.774	
8,000.00	7,974.80	7,918.02	7,826.85	28.53	31.48	70.58	-1,002.28	381.62	902.77	845.54	57.23	15.773	
8,100.00	8,073.88	8,017.01	7,924.36	28.91	31.91	71.08	-1,018.36	387.34	914.84	856.84	58.00	15.773	
8,200.00	8,173.22	8,144.63	8,050.31	29.28	32.45	71.75	-1,037.68	394.21	926.63	867.78	58.85	15.745	
8,300.00	8,272.90	8,288.34	8,193.04	29.65	33.01	72.25	-1,053.30	399.77	935.11	875.38	59.73	15.655	
8,400.00	8,372.79	8,432.86	8,337.24	30.00	33.53	72.53	-1,062.18	402.93	939.93	879.35	60.58	15.516	
8,500.00	8,472.78	8,568.48	8,472.83	30.35	33.96	-90.07	-1,064.35	403.32	941.11	879.76	61.35	15.340	
8,600.00	8,571.87	8,668.72	8,572.18	30.66	34.24	-90.08	-1,064.39	390.96	941.11	879.15	61.96	15.189	
8,700.00	8,667.29	8,768.99	8,667.88	30.95	34.48	-90.08	-1,064.48	361.49	941.10	878.59	62.51	15.055	
8,800.00	8,756.14	8,869.27	8,757.00	31.22	34.68	-90.09	-1,064.62	315.80	941.09	878.06	63.03	14.931	
8,900.00	8,835.72	8,969.56	8,836.81	31.51	34.83	-90.09	-1,064.81	255.28	941.08	877.51	63.57	14.803	
9,000.00	8,903.61	9,069.84	8,904.86	31.85	34.93	-90.09	-1,065.04	181.79	941.06	876.84	64.22	14.653	
9,100.00	8,957.75	9,170.11	8,959.06	32.31	34.99	-90.08	-1,065.30	97.59	941.04	875.94	65.10	14.455	
9,200.00	8,996.49	9,270.35	8,997.77	32.93	35.02	-90.08	-1,065.58	5.26	941.02	874.72	66.30	14.194	
9,300.00	9,018.66	9,370.57	9,019.82	33.74	35.03	-90.07	-1,065.88	-92.38	941.00	873.13	67.87	13.865	
9,400.00	9,024.00	9,470.72	9,025.00	34.72	35.19	-90.06	-1,066.19	-192.29	940.98	871.19	69.79	13.483	
9,500.00	9,024.00	9,570.72	9,025.00	35.89	36.21	-90.06	-1,066.50	-292.29	940.95	868.87	72.09	13.053	
9,600.00	9,024.00	9,670.72	9,025.00	37.23	37.52	-90.06	-1,066.81	-392.29	940.93	866.19	74.74	12.590	
9,700.00	9,024.00	9,770.72	9,025.00	38.74	39.00	-90.06	-1,067.12	-492.29	940.91	863.20	77.71	12.107	
9,800.00	9,024.00	9,870.72	9,025.00	40.40	40.62	-90.06	-1,067.43	-592.29	940.89	859.90	80.98	11.618	
9,900.00	9,024.00	9,970.72	9,025.00	42.18	42.38	-90.06	-1,067.74	-692.29	940.86	856.36	84.51	11.133	
10,000.00	9,024.00	10,070.72	9,025.00	44.07	44.24	-90.06	-1,068.05	-792.29	940.84	852.58	88.26	10.660	

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

Scientific Drilling Int.

Anticollision Report

Company:	WPX Energy	**Local Co-ordinate Reference:**	Well C 17 State 2H
Project:	Eddy County, New Mexico NAD 83	**TVD Reference:**	GL 3154 + KB 22 = @ 3176.00usft (Orion Pegasus)
Reference Site:	C 17 State Pad	**MD Reference:**	GL 3154 + KB 22 = @ 3176.00usft (Orion Pegasus)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	C 17 State 2H	**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-MWD+HDGM

Offset Well Error: 0.00 usft

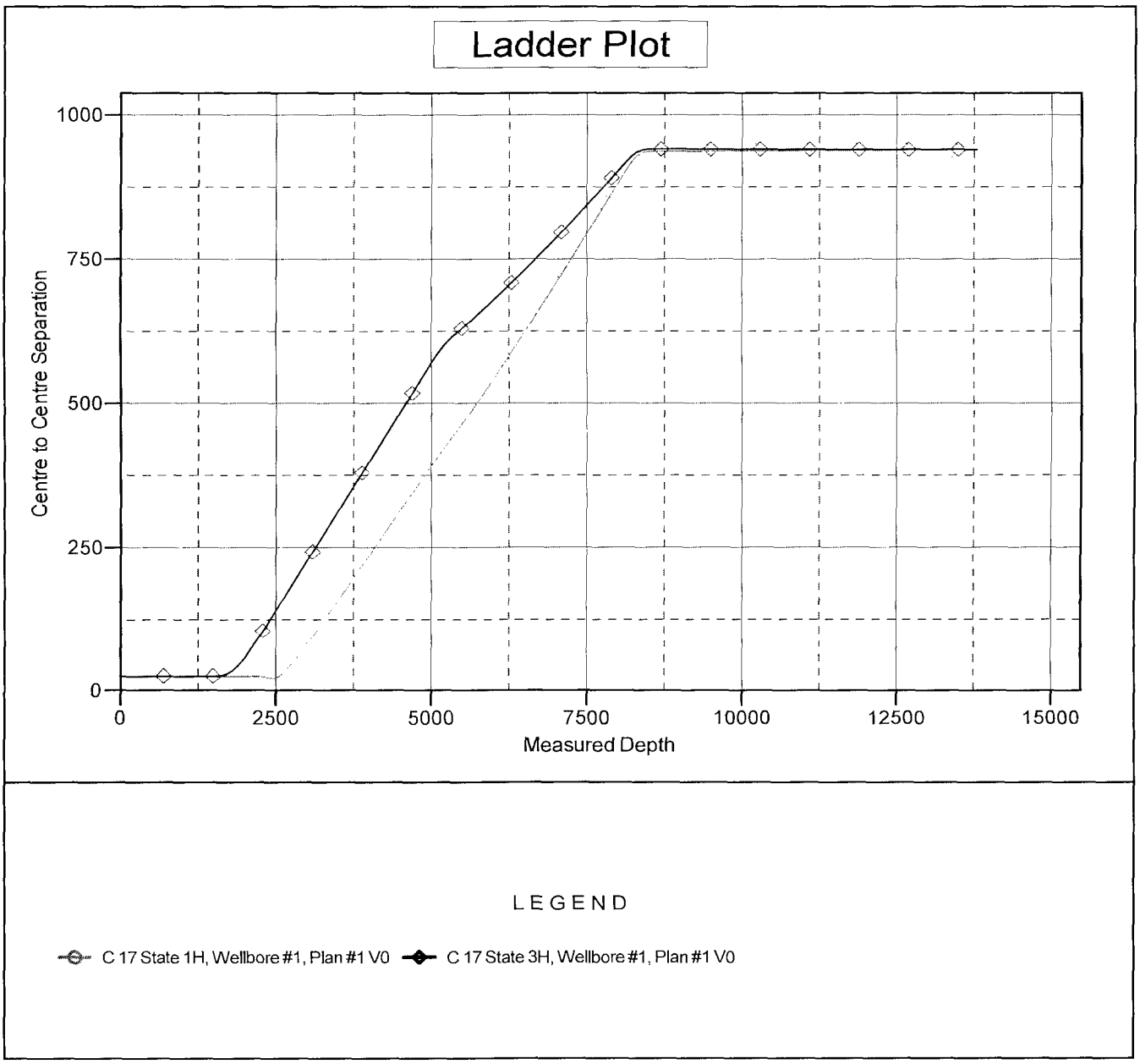
Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,100.00	9,024.00	10,170.72	9,025.00	46.06	46.21	-90.06	-1,068.35	-892.29	940.82	848.61	92.21	10.203	
10,200.00	9,024.00	10,270.72	9,025.00	48.14	48.26	-90.06	-1,068.66	-992.29	940.80	844.46	96.34	9.765	
10,300.00	9,024.00	10,370.72	9,025.00	50.30	50.39	-90.06	-1,068.97	-1,092.28	940.78	840.15	100.62	9.350	
10,400.00	9,024.00	10,470.72	9,025.00	52.52	52.59	-90.06	-1,069.28	-1,192.28	940.75	835.72	105.04	8.957	
10,500.00	9,024.00	10,570.72	9,025.00	54.80	54.85	-90.06	-1,069.59	-1,292.28	940.73	831.16	109.57	8.586	
10,600.00	9,024.00	10,670.72	9,025.00	57.12	57.16	-90.06	-1,069.90	-1,392.28	940.71	826.50	114.21	8.237	
10,700.00	9,024.00	10,770.72	9,025.00	59.50	59.51	-90.06	-1,070.21	-1,492.28	940.69	821.75	118.93	7.909	
10,800.00	9,024.00	10,870.72	9,025.00	61.91	61.91	-90.06	-1,070.52	-1,592.28	940.66	816.92	123.74	7.602	
10,900.00	9,024.00	10,970.72	9,025.00	64.36	64.34	-90.06	-1,070.83	-1,692.28	940.64	812.01	128.63	7.313	
11,000.00	9,024.00	11,070.72	9,025.00	66.84	66.81	-90.06	-1,071.14	-1,792.28	940.62	807.04	133.57	7.042	
11,100.00	9,024.00	11,170.72	9,025.00	69.35	69.30	-90.06	-1,071.44	-1,892.28	940.60	802.02	138.58	6.787	
11,200.00	9,024.00	11,270.72	9,025.00	71.89	71.82	-90.06	-1,071.75	-1,992.28	940.57	796.94	143.64	6.548	
11,300.00	9,024.00	11,370.72	9,025.00	74.44	74.37	-90.06	-1,072.06	-2,092.28	940.55	791.81	148.74	6.324	
11,400.00	9,024.00	11,470.72	9,025.00	77.02	76.93	-90.06	-1,072.37	-2,192.28	940.53	786.65	153.88	6.112	
11,500.00	9,024.00	11,570.72	9,025.00	79.62	79.52	-90.06	-1,072.68	-2,292.28	940.51	781.44	159.06	5.913	
11,600.00	9,024.00	11,670.72	9,025.00	82.23	82.12	-90.06	-1,072.99	-2,392.28	940.48	776.21	164.28	5.725	
11,700.00	9,024.00	11,770.72	9,025.00	84.86	84.73	-90.06	-1,073.30	-2,492.28	940.46	770.94	169.52	5.548	
11,800.00	9,024.00	11,870.72	9,025.00	87.50	87.37	-90.06	-1,073.61	-2,592.28	940.44	765.64	174.80	5.380	
11,900.00	9,024.00	11,970.72	9,025.00	90.15	90.01	-90.06	-1,073.92	-2,692.28	940.42	760.32	180.10	5.222	
12,000.00	9,024.00	12,070.72	9,025.00	92.82	92.67	-90.06	-1,074.23	-2,792.28	940.40	754.97	185.42	5.072	
12,100.00	9,024.00	12,170.72	9,025.00	95.49	95.34	-90.06	-1,074.53	-2,892.28	940.37	749.61	190.77	4.929	
12,200.00	9,024.00	12,270.72	9,025.00	98.18	98.01	-90.06	-1,074.84	-2,992.28	940.35	744.22	196.13	4.795	
12,300.00	9,024.00	12,370.72	9,025.00	100.88	100.70	-90.06	-1,075.15	-3,092.28	940.33	738.81	201.51	4.666	
12,400.00	9,024.00	12,470.72	9,025.00	103.58	103.40	-90.06	-1,075.46	-3,192.27	940.31	733.39	206.91	4.544	
12,500.00	9,024.00	12,570.72	9,025.00	106.29	106.10	-90.06	-1,075.77	-3,292.27	940.28	727.96	212.33	4.428	
12,600.00	9,024.00	12,670.72	9,025.00	109.00	108.81	-90.06	-1,076.08	-3,392.27	940.26	722.50	217.76	4.318	
12,700.00	9,024.00	12,770.72	9,025.00	111.73	111.53	-90.06	-1,076.39	-3,492.27	940.24	717.04	223.20	4.213	
12,800.00	9,024.00	12,870.72	9,025.00	114.46	114.25	-90.06	-1,076.70	-3,592.27	940.22	711.56	228.65	4.112	
12,900.00	9,024.00	12,970.72	9,025.00	117.19	116.98	-90.06	-1,077.01	-3,692.27	940.19	706.07	234.12	4.016	
13,000.00	9,024.00	13,070.72	9,025.00	119.93	119.72	-90.06	-1,077.32	-3,792.27	940.17	700.58	239.60	3.924	
13,100.00	9,024.00	13,170.72	9,025.00	122.68	122.46	-90.06	-1,077.62	-3,892.27	940.15	695.07	245.08	3.836	
13,200.00	9,024.00	13,270.72	9,025.00	125.43	125.20	-90.06	-1,077.93	-3,992.27	940.13	689.55	250.58	3.752	
13,300.00	9,024.00	13,370.72	9,025.00	128.18	127.95	-90.06	-1,078.24	-4,092.27	940.11	684.02	256.08	3.671	
13,400.00	9,024.00	13,470.72	9,025.00	130.94	130.71	-90.06	-1,078.55	-4,192.27	940.08	678.49	261.60	3.594	
13,500.00	9,024.00	13,570.72	9,025.00	133.70	133.47	-90.06	-1,078.86	-4,292.27	940.06	672.94	267.12	3.519	
13,600.00	9,024.00	13,670.72	9,025.00	136.47	136.23	-90.06	-1,079.17	-4,392.27	940.04	667.39	272.64	3.448	
13,700.00	9,024.00	13,770.72	9,025.00	139.24	138.99	-90.06	-1,079.48	-4,492.27	940.02	661.84	278.18	3.379	
13,799.97	9,024.00	13,870.69	9,025.00	142.01	141.76	-90.06	-1,079.79	-4,592.24	939.99	656.28	283.72	3.313	
13,800.13	9,024.00	13,870.85	9,025.00	142.01	141.76	-90.06	-1,079.79	-4,592.40	939.99	656.27	283.73	3.313	

Scientific Drilling Int.

Anticollision Report

Company:	WPX Energy	**Local Co-ordinate Reference:**	Well C 17 State 2H
Project:	Eddy County, New Mexico NAD 83	**TVD Reference:**	GL 3154 + KB 22 = @ 3176.00usft (Orion Pegasus)
Reference Site:	C 17 State Pad	**MD Reference:**	GL 3154 + KB 22 = @ 3176.00usft (Orion Pegasus)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	C 17 State 2H	**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

Reference Depths are relative to GL 3154 + KB 22 = @ 3176.00usft (O	Coordinates are relative to: C 17 State 2H
Offset Depths are relative to Offset Datum	Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Central Meridian is -104.333334	Grid Convergence at Surface is: 0.07°



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

Scientific Drilling Int.

Anticollision Report

Company:	WPX Energy	**Local Co-ordinate Reference:**	Well C 17 State 2H
Project:	Eddy County, New Mexico NAD 83	**TVD Reference:**	GL 3154 + KB 22 = @ 3176.00usft (Orion Pegasus)
Reference Site:	C 17 State Pad	**MD Reference:**	GL 3154 + KB 22 = @ 3176.00usft (Orion Pegasus)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	C 17 State 2H	**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

Reference Depths are relative to GL 3154 + KB 22 = @ 3176.00usft (O	Coordinates are relative to: C 17 State 2H
Offset Depths are relative to Offset Datum	Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Central Meridian is -104.333334	Grid Convergence at Surface is: 0.07°