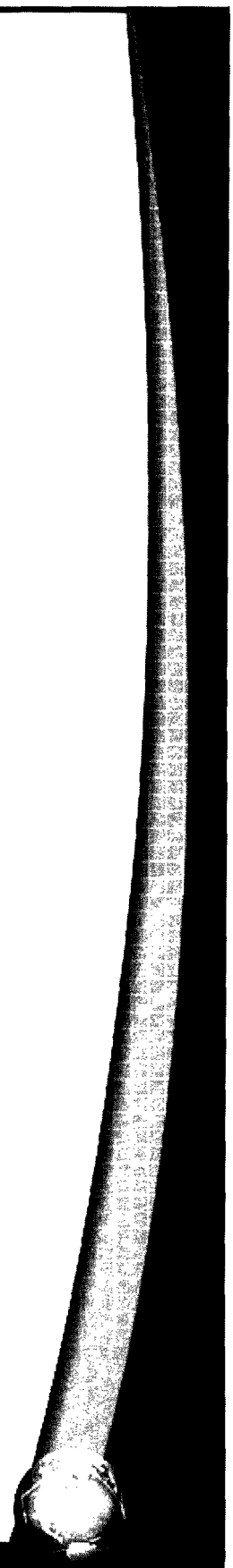
WPX Energy

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

Plan: Plan #1

Standard Planning Report

14 December, 2017



WPXENERGY

C 17 State 2H
Eddy County, New Mexico NAD 8
Northing: 476120.10
Easting: 580998.40
Plan #1

Scientific Drilling

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

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

Azimuths to Grid North
True North: -0.07°
Magnetic North: 7.30°

Magnetic Field
Strength: 48048.7snT
Dip Angle: 60.10°
Date: 12/14/2017
Model: HDGM

WELL DETAILS C 17 State 2H

Ground Level: 3154.00

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	476120.10	580998.40	32.308862	-104.204958

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
2365.00	3.00	45.00	2364.86	5.55	5.55	1.00	45.00	-5.57
2465.00	3.00	45.00	2464.73	9.25	9.25	0.00	0.00	-9.28
2765.00	0.00	0.00	2764.59	14.81	14.81	1.00	180.00	-14.85
3515.00	0.00	0.00	3514.59	14.81	14.81	0.00	0.00	-14.85
3906.41	7.83	102.73	3904.78	8.92	40.85	2.00	102.73	-40.87
8112.67	7.83	102.73	8071.85	-117.37	599.66	0.00	0.00	-599.29
8504.08	0.00	0.00	8462.04	-123.25	625.70	2.00	180.00	-625.31
9404.08	90.00	269.82	9035.00	-125.07	52.75	10.00	269.82	-52.35
14077.15	90.00	269.82	9035.00	-139.90	-4620.30	0.00	0.00	4620.72

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

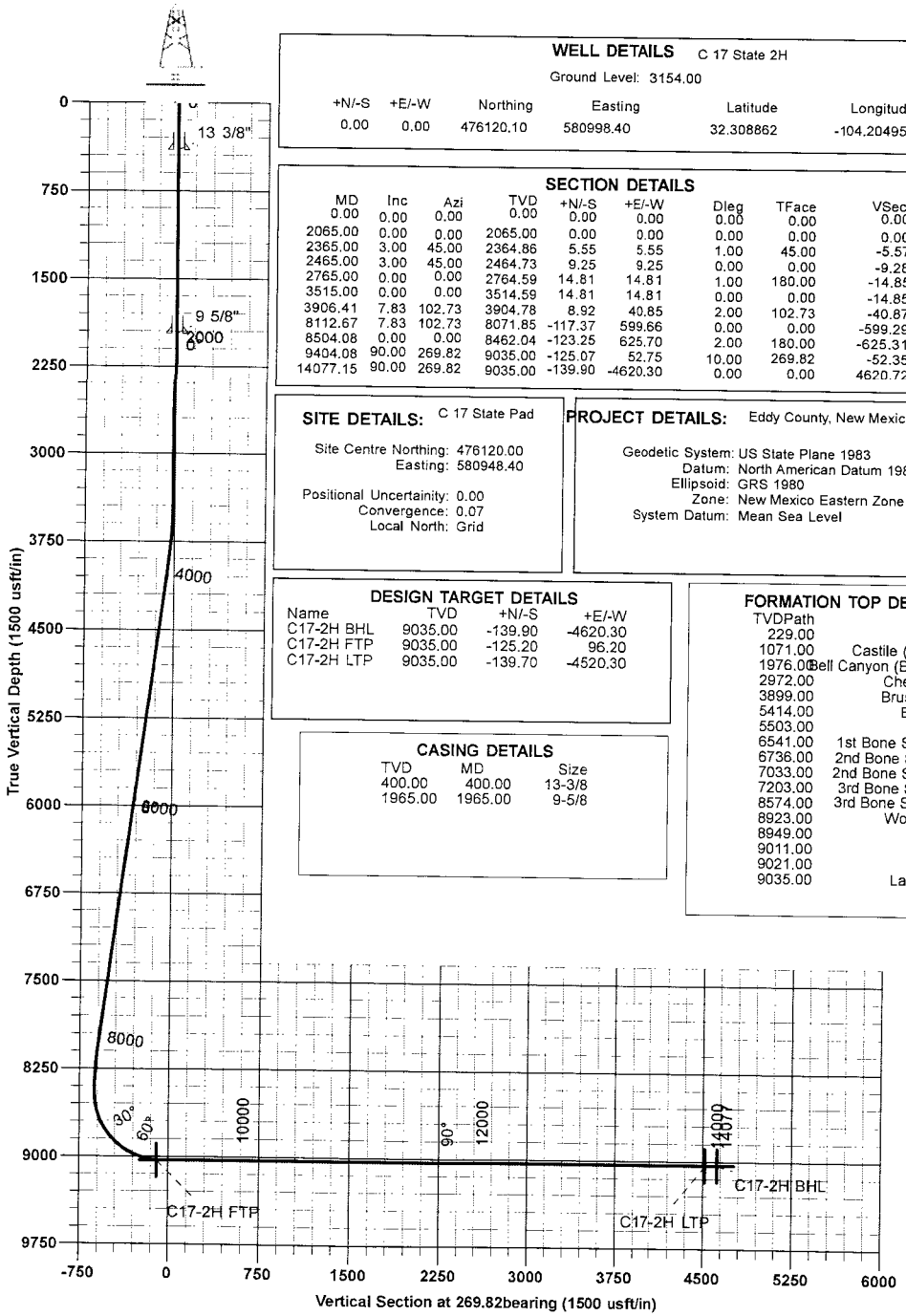
Name	TVD	+N/-S	+E/-W
C17-2H BHL	9035.00	-139.90	-4620.30
C17-2H FTP	9035.00	-125.20	96.20
C17-2H LTP	9035.00	-139.70	-4520.30

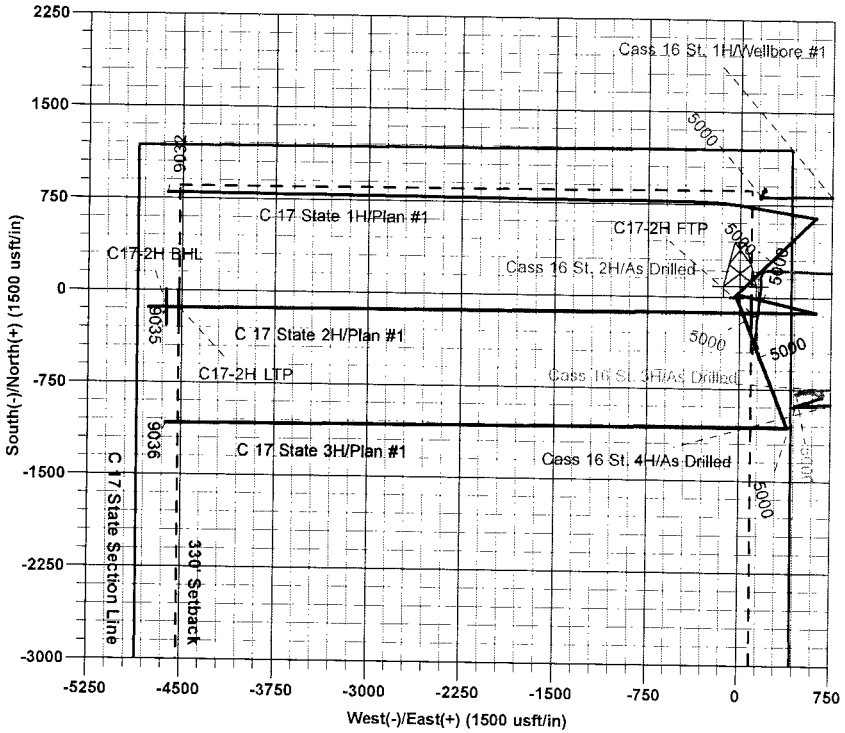
CASING DETAILS

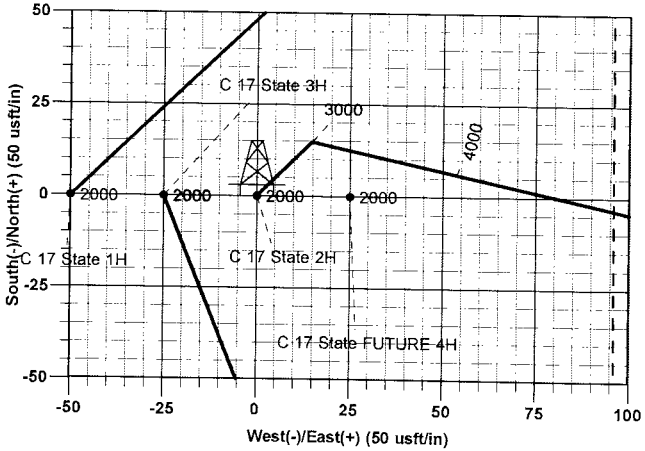
TVD	MD	Size
400.00	400.00	13-3/8
1965.00	1965.00	9-5/8

FORMATION TOP DETAILS

TVDPath	Formation
229.00	Rustler
1071.00	Castile (Top of Salt)
1976.00	Bell Canyon (Base of Salt)
2972.00	Cherry Canyon
3899.00	Brushy Canyon
5414.00	Bone Spring
5503.00	Avalon
6541.00	1st Bone Spring Sand
6736.00	2nd Bone Spring Lime
7033.00	2nd Bone Spring Sand
7203.00	3rd Bone Spring Lime
8574.00	3rd Bone Spring Sand
8923.00	Wolfcamp Top
8949.00	WC_X
9011.00	WC_Y
9021.00	Top Target
9035.00	Landing Point







Bailey Fellows
9:17, December 14 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 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 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**	0.10 usft	**Northing:**	476,120.10 usft	**Latitude:**	32.308862
	+E/-W	50.00 usft	**Easting:**	580,998.40 usft	**Longitude:**	-104.204958
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	269.82	

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	
2,365.00	3.00	45.00	2,364.86	5.55	5.55	1.00	1.00	0.00	45.00	
2,465.00	3.00	45.00	2,464.73	9.25	9.25	0.00	0.00	0.00	0.00	
2,765.00	0.00	0.00	2,764.59	14.81	14.81	1.00	-1.00	0.00	180.00	
3,515.00	0.00	0.00	3,514.59	14.81	14.81	0.00	0.00	0.00	0.00	
3,906.41	7.83	102.73	3,904.78	8.92	40.85	2.00	2.00	0.00	102.73	
8,112.67	7.83	102.73	8,071.85	-117.37	599.66	0.00	0.00	0.00	0.00	
8,504.08	0.00	0.00	8,462.04	-123.25	625.70	2.00	-2.00	0.00	180.00	
9,404.08	90.00	269.82	9,035.00	-125.07	52.75	10.00	10.00	-10.02	269.82	
14,077.15	90.00	269.82	9,035.00	-139.90	-4,620.30	0.00	0.00	0.00	0.00	C17-2H BHL

Scientific Drilling Int.

Planning Report

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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
229.00	0.00	0.00	229.00	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
1,071.00	0.00	0.00	1,071.00	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"									
1,976.00	0.00	0.00	1,976.00	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	0.35	45.00	2,100.00	0.08	0.08	-0.08	1.00	1.00	0.00
2,200.00	1.35	45.00	2,199.99	1.12	1.12	-1.13	1.00	1.00	0.00
2,300.00	2.35	45.00	2,299.93	3.41	3.41	-3.42	1.00	1.00	0.00
2,365.00	3.00	45.00	2,364.86	5.55	5.55	-5.57	1.00	1.00	0.00
2,400.00	3.00	45.00	2,399.82	6.85	6.85	-6.87	0.00	0.00	0.00
2,465.00	3.00	45.00	2,464.73	9.25	9.25	-9.28	0.00	0.00	0.00
2,500.00	2.65	45.00	2,499.68	10.47	10.47	-10.51	1.00	-1.00	0.00
2,600.00	1.65	45.00	2,599.61	13.13	13.13	-13.17	1.00	-1.00	0.00
2,700.00	0.65	45.00	2,699.59	14.54	14.54	-14.59	1.00	-1.00	0.00
2,765.00	0.00	0.00	2,764.59	14.81	14.81	-14.85	1.00	-1.00	0.00
2,800.00	0.00	0.00	2,799.59	14.81	14.81	-14.85	0.00	0.00	0.00
2,900.00	0.00	0.00	2,899.59	14.81	14.81	-14.85	0.00	0.00	0.00
2,972.41	0.00	0.00	2,972.00	14.81	14.81	-14.85	0.00	0.00	0.00
Cherry Canyon									
3,000.00	0.00	0.00	2,999.59	14.81	14.81	-14.85	0.00	0.00	0.00
3,100.00	0.00	0.00	3,099.59	14.81	14.81	-14.85	0.00	0.00	0.00
3,200.00	0.00	0.00	3,199.59	14.81	14.81	-14.85	0.00	0.00	0.00
3,300.00	0.00	0.00	3,299.59	14.81	14.81	-14.85	0.00	0.00	0.00
3,400.00	0.00	0.00	3,399.59	14.81	14.81	-14.85	0.00	0.00	0.00
3,500.00	0.00	0.00	3,499.59	14.81	14.81	-14.85	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 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 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)
3,515.00	0.00	0.00	3,514.59	14.81	14.81	-14.85	0.00	0.00	0.00
3,600.00	1.70	102.73	3,599.58	14.53	16.04	-16.08	2.00	2.00	0.00
3,700.00	3.70	102.73	3,699.46	13.49	20.63	-20.67	2.00	2.00	0.00
3,800.00	5.70	102.73	3,799.12	11.68	28.62	-28.66	2.00	2.00	0.00
3,900.57	7.71	102.73	3,899.00	9.09	40.08	-40.10	2.00	2.00	0.00
Brushy Canyon									
3,906.41	7.83	102.73	3,904.78	8.92	40.85	-40.87	2.00	2.00	0.00
4,000.00	7.83	102.73	3,997.50	6.11	53.28	-53.30	0.00	0.00	0.00
4,100.00	7.83	102.73	4,096.57	3.11	66.56	-66.57	0.00	0.00	0.00
4,200.00	7.83	102.73	4,195.64	0.11	79.85	-79.85	0.00	0.00	0.00
4,300.00	7.83	102.73	4,294.70	-2.90	93.14	-93.13	0.00	0.00	0.00
4,400.00	7.83	102.73	4,393.77	-5.90	106.42	-106.40	0.00	0.00	0.00
4,500.00	7.83	102.73	4,492.84	-8.90	119.71	-119.68	0.00	0.00	0.00
4,600.00	7.83	102.73	4,591.91	-11.90	132.99	-132.95	0.00	0.00	0.00
4,700.00	7.83	102.73	4,690.98	-14.91	146.28	-146.23	0.00	0.00	0.00
4,800.00	7.83	102.73	4,790.04	-17.91	159.56	-159.50	0.00	0.00	0.00
4,900.00	7.83	102.73	4,889.11	-20.91	172.85	-172.78	0.00	0.00	0.00
5,000.00	7.83	102.73	4,988.18	-23.91	186.13	-186.06	0.00	0.00	0.00
5,100.00	7.83	102.73	5,087.25	-26.91	199.42	-199.33	0.00	0.00	0.00
5,200.00	7.83	102.73	5,186.32	-29.92	212.70	-212.61	0.00	0.00	0.00
5,300.00	7.83	102.73	5,285.39	-32.92	225.99	-225.88	0.00	0.00	0.00
5,400.00	7.83	102.73	5,384.45	-35.92	239.27	-239.16	0.00	0.00	0.00
5,429.82	7.83	102.73	5,414.00	-36.82	243.24	-243.12	0.00	0.00	0.00
Bone Spring									
5,500.00	7.83	102.73	5,483.52	-38.92	252.56	-252.44	0.00	0.00	0.00
5,519.66	7.83	102.73	5,503.00	-39.51	255.17	-255.05	0.00	0.00	0.00
Avalon									
5,600.00	7.83	102.73	5,582.59	-41.93	265.84	-265.71	0.00	0.00	0.00
5,700.00	7.83	102.73	5,681.66	-44.93	279.13	-278.99	0.00	0.00	0.00
5,800.00	7.83	102.73	5,780.73	-47.93	292.41	-292.26	0.00	0.00	0.00
5,900.00	7.83	102.73	5,879.79	-50.93	305.70	-305.54	0.00	0.00	0.00
6,000.00	7.83	102.73	5,978.86	-53.94	318.99	-318.81	0.00	0.00	0.00
6,100.00	7.83	102.73	6,077.93	-56.94	332.27	-332.09	0.00	0.00	0.00
6,200.00	7.83	102.73	6,177.00	-59.94	345.56	-345.37	0.00	0.00	0.00
6,300.00	7.83	102.73	6,276.07	-62.94	358.84	-358.64	0.00	0.00	0.00
6,400.00	7.83	102.73	6,375.13	-65.95	372.13	-371.92	0.00	0.00	0.00
6,500.00	7.83	102.73	6,474.20	-68.95	385.41	-385.19	0.00	0.00	0.00
6,567.43	7.83	102.73	6,541.00	-70.97	394.37	-394.14	0.00	0.00	0.00
1st Bone Spring Sand									
6,600.00	7.83	102.73	6,573.27	-71.95	398.70	-398.47	0.00	0.00	0.00
6,700.00	7.83	102.73	6,672.34	-74.95	411.98	-411.74	0.00	0.00	0.00
6,764.26	7.83	102.73	6,736.00	-76.88	420.52	-420.28	0.00	0.00	0.00
2nd Bone Spring Lime									
6,800.00	7.83	102.73	6,771.41	-77.95	425.27	-425.02	0.00	0.00	0.00
6,900.00	7.83	102.73	6,870.47	-80.96	438.55	-438.30	0.00	0.00	0.00
7,000.00	7.83	102.73	6,969.54	-83.96	451.84	-451.57	0.00	0.00	0.00
7,064.05	7.83	102.73	7,033.00	-85.88	460.35	-460.08	0.00	0.00	0.00
2nd Bone Spring Sand									
7,100.00	7.83	102.73	7,068.61	-86.96	465.12	-464.85	0.00	0.00	0.00
7,200.00	7.83	102.73	7,167.68	-89.96	478.41	-478.12	0.00	0.00	0.00
7,235.65	7.83	102.73	7,203.00	-91.03	483.15	-482.86	0.00	0.00	0.00
3rd Bone Spring Lime									

Database:	Midland District	**Local Co-ordinate Reference:**	Well C 17 State 2H
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 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)
7,300.00	7.83	102.73	7,266.75	-92.97	491.69	-491.40	0.00	0.00	0.00
7,400.00	7.83	102.73	7,365.82	-95.97	504.98	-504.67	0.00	0.00	0.00
7,500.00	7.83	102.73	7,464.88	-98.97	518.26	-517.95	0.00	0.00	0.00
7,600.00	7.83	102.73	7,563.95	-101.97	531.55	-531.23	0.00	0.00	0.00
7,700.00	7.83	102.73	7,663.02	-104.98	544.83	-544.50	0.00	0.00	0.00
7,800.00	7.83	102.73	7,762.09	-107.98	558.12	-557.78	0.00	0.00	0.00
7,900.00	7.83	102.73	7,861.16	-110.98	571.41	-571.05	0.00	0.00	0.00
8,000.00	7.83	102.73	7,960.22	-113.98	584.69	-584.33	0.00	0.00	0.00
8,100.00	7.83	102.73	8,059.29	-116.98	597.98	-597.61	0.00	0.00	0.00
8,112.67	7.83	102.73	8,071.85	-117.37	599.66	-599.29	0.00	0.00	0.00
8,200.00	6.08	102.73	8,158.53	-119.70	609.97	-609.59	2.00	-2.00	0.00
8,300.00	4.08	102.73	8,258.13	-121.65	618.61	-618.23	2.00	-2.00	0.00
8,400.00	2.08	102.73	8,357.98	-122.83	623.86	-623.47	2.00	-2.00	0.00
8,504.08	0.00	0.00	8,462.04	-123.25	625.70	-625.31	2.00	-2.00	0.00
8,550.00	4.59	269.82	8,507.91	-123.26	623.86	-623.47	10.00	10.00	0.00
8,600.00	9.59	269.82	8,557.51	-123.28	617.69	-617.30	10.00	10.00	0.00
8,616.77	11.27	269.82	8,574.00	-123.29	614.65	-614.26	10.00	10.00	0.00
3rd Bone Spring Sand									
8,650.00	14.59	269.82	8,606.39	-123.31	607.22	-606.83	10.00	10.00	0.00
8,700.00	19.59	269.82	8,654.16	-123.36	592.53	-592.14	10.00	10.00	0.00
8,750.00	24.59	269.82	8,700.48	-123.41	573.73	-573.34	10.00	10.00	0.00
8,800.00	29.59	269.82	8,744.98	-123.49	550.97	-550.58	10.00	10.00	0.00
8,850.00	34.59	269.82	8,787.32	-123.57	524.41	-524.02	10.00	10.00	0.00
8,900.00	39.59	269.82	8,827.19	-123.67	494.27	-493.88	10.00	10.00	0.00
8,950.00	44.59	269.82	8,864.29	-123.77	460.76	-460.37	10.00	10.00	0.00
9,000.00	49.59	269.82	8,898.32	-123.89	424.15	-423.76	10.00	10.00	0.00
9,039.73	53.56	269.82	8,923.00	-123.99	393.03	-392.64	10.00	10.00	0.00
Wolfcamp Top									
9,050.00	54.59	269.82	8,929.03	-124.01	384.71	-384.32	10.00	10.00	0.00
9,086.10	58.20	269.82	8,949.00	-124.11	354.66	-354.26	10.00	10.00	0.00
WC_X									
9,100.00	59.59	269.82	8,956.18	-124.15	342.75	-342.36	10.00	10.00	0.00
9,150.00	64.59	269.82	8,979.58	-124.29	298.58	-298.19	10.00	10.00	0.00
9,200.00	69.59	269.82	8,999.03	-124.43	252.54	-252.15	10.00	10.00	0.00
9,237.67	73.36	269.82	9,011.00	-124.55	216.83	-216.44	10.00	10.00	0.00
WC_Y									
9,250.00	74.59	269.82	9,014.40	-124.59	204.98	-204.58	10.00	10.00	0.00
9,277.17	77.31	269.82	9,021.00	-124.67	178.62	-178.23	10.00	10.00	0.00
Top Target									
9,300.00	79.59	269.82	9,025.57	-124.74	156.26	-155.86	10.00	10.00	0.00
9,350.00	84.59	269.82	9,032.45	-124.90	106.75	-106.35	10.00	10.00	0.00
9,404.08	90.00	269.82	9,035.00	-125.07	52.75	-52.35	10.00	10.00	0.00
Landing Point									
9,500.00	90.00	269.82	9,035.00	-125.37	-43.17	43.57	0.00	0.00	0.00
9,600.00	90.00	269.82	9,035.00	-125.69	-143.17	143.57	0.00	0.00	0.00
9,700.00	90.00	269.82	9,035.00	-126.01	-243.17	243.57	0.00	0.00	0.00
9,800.00	90.00	269.82	9,035.00	-126.33	-343.17	343.57	0.00	0.00	0.00
9,900.00	90.00	269.82	9,035.00	-126.64	-443.17	443.57	0.00	0.00	0.00
10,000.00	90.00	269.82	9,035.00	-126.96	-543.17	543.57	0.00	0.00	0.00
10,100.00	90.00	269.82	9,035.00	-127.28	-643.17	643.57	0.00	0.00	0.00
10,200.00	90.00	269.82	9,035.00	-127.59	-743.17	743.57	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 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 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)
10,300.00	90.00	269.82	9,035.00	-127.91	-843.17	843.57	0.00	0.00	0.00
10,400.00	90.00	269.82	9,035.00	-128.23	-943.17	943.57	0.00	0.00	0.00
10,500.00	90.00	269.82	9,035.00	-128.55	-1,043.17	1,043.57	0.00	0.00	0.00
10,600.00	90.00	269.82	9,035.00	-128.86	-1,143.17	1,143.57	0.00	0.00	0.00
10,700.00	90.00	269.82	9,035.00	-129.18	-1,243.17	1,243.57	0.00	0.00	0.00
10,800.00	90.00	269.82	9,035.00	-129.50	-1,343.17	1,343.57	0.00	0.00	0.00
10,900.00	90.00	269.82	9,035.00	-129.82	-1,443.16	1,443.57	0.00	0.00	0.00
11,000.00	90.00	269.82	9,035.00	-130.13	-1,543.16	1,543.57	0.00	0.00	0.00
11,100.00	90.00	269.82	9,035.00	-130.45	-1,643.16	1,643.57	0.00	0.00	0.00
11,200.00	90.00	269.82	9,035.00	-130.77	-1,743.16	1,743.57	0.00	0.00	0.00
11,300.00	90.00	269.82	9,035.00	-131.09	-1,843.16	1,843.57	0.00	0.00	0.00
11,400.00	90.00	269.82	9,035.00	-131.40	-1,943.16	1,943.57	0.00	0.00	0.00
11,500.00	90.00	269.82	9,035.00	-131.72	-2,043.16	2,043.57	0.00	0.00	0.00
11,600.00	90.00	269.82	9,035.00	-132.04	-2,143.16	2,143.57	0.00	0.00	0.00
11,700.00	90.00	269.82	9,035.00	-132.36	-2,243.16	2,243.57	0.00	0.00	0.00
11,800.00	90.00	269.82	9,035.00	-132.67	-2,343.16	2,343.57	0.00	0.00	0.00
11,900.00	90.00	269.82	9,035.00	-132.99	-2,443.16	2,443.57	0.00	0.00	0.00
12,000.00	90.00	269.82	9,035.00	-133.31	-2,543.16	2,543.57	0.00	0.00	0.00
12,100.00	90.00	269.82	9,035.00	-133.62	-2,643.16	2,643.57	0.00	0.00	0.00
12,200.00	90.00	269.82	9,035.00	-133.94	-2,743.16	2,743.57	0.00	0.00	0.00
12,300.00	90.00	269.82	9,035.00	-134.26	-2,843.16	2,843.57	0.00	0.00	0.00
12,400.00	90.00	269.82	9,035.00	-134.58	-2,943.16	2,943.57	0.00	0.00	0.00
12,500.00	90.00	269.82	9,035.00	-134.89	-3,043.16	3,043.57	0.00	0.00	0.00
12,600.00	90.00	269.82	9,035.00	-135.21	-3,143.16	3,143.57	0.00	0.00	0.00
12,700.00	90.00	269.82	9,035.00	-135.53	-3,243.16	3,243.57	0.00	0.00	0.00
12,800.00	90.00	269.82	9,035.00	-135.85	-3,343.16	3,343.57	0.00	0.00	0.00
12,900.00	90.00	269.82	9,035.00	-136.16	-3,443.15	3,443.57	0.00	0.00	0.00
13,000.00	90.00	269.82	9,035.00	-136.48	-3,543.15	3,543.57	0.00	0.00	0.00
13,100.00	90.00	269.82	9,035.00	-136.80	-3,643.15	3,643.57	0.00	0.00	0.00
13,200.00	90.00	269.82	9,035.00	-137.12	-3,743.15	3,743.57	0.00	0.00	0.00
13,300.00	90.00	269.82	9,035.00	-137.43	-3,843.15	3,843.57	0.00	0.00	0.00
13,400.00	90.00	269.82	9,035.00	-137.75	-3,943.15	3,943.57	0.00	0.00	0.00
13,500.00	90.00	269.82	9,035.00	-138.07	-4,043.15	4,043.57	0.00	0.00	0.00
13,600.00	90.00	269.82	9,035.00	-138.39	-4,143.15	4,143.57	0.00	0.00	0.00
13,700.00	90.00	269.82	9,035.00	-138.70	-4,243.15	4,243.57	0.00	0.00	0.00
13,800.00	90.00	269.82	9,035.00	-139.02	-4,343.15	4,343.57	0.00	0.00	0.00
13,900.00	90.00	269.82	9,035.00	-139.34	-4,443.15	4,443.57	0.00	0.00	0.00
14,000.00	90.00	269.82	9,035.00	-139.66	-4,543.15	4,543.57	0.00	0.00	0.00
14,077.15	90.00	269.82	9,035.00	-139.90	-4,620.30	4,620.72	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 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 2H	**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
C17-2H LTP	0.00	0.00	9,035.00	-139.70	-4,520.30	475,980.40	576,478.10	32.308492	-104.219590
- plan misses target center by 0.12usft at 13977.15usft MD (9035.00 TVD, -139.58 N, -4520.30 E)									
- Point									
C17-2H BHL	0.00	0.00	9,035.00	-139.90	-4,620.30	475,980.20	576,378.10	32.308492	-104.219914
- plan hits target center									
- Point									
C17-2H FTP	0.00	0.00	9,035.00	-125.20	96.20	475,994.90	581,094.60	32.308517	-104.204647
- plan misses target center by 1.67usft at 9360.66usft MD (9033.35 TVD, -124.93 N, 96.13 E)									
- Point									

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

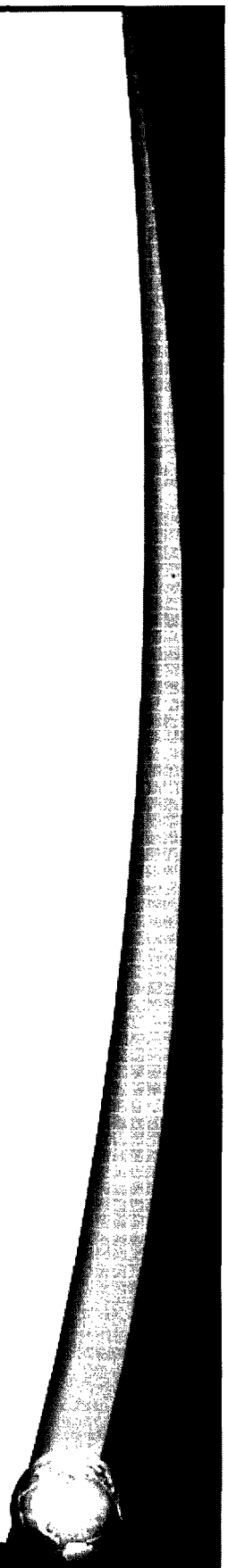
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (bearing)
229.00	229.00	Rustler			
1,071.00	1,071.00	Castile (Top of Salt)			
1,976.00	1,976.00	Bell Canyon (Base of Salt)			
2,972.41	2,972.00	Cherry Canyon			
3,900.57	3,899.00	Brushy Canyon			
5,429.82	5,414.00	Bone Spring			
5,519.66	5,503.00	Avalon			
6,567.43	6,541.00	1st Bone Spring Sand			
6,764.26	6,736.00	2nd Bone Spring Lime			
7,064.05	7,033.00	2nd Bone Spring Sand			
7,235.65	7,203.00	3rd Bone Spring Lime			
8,616.77	8,574.00	3rd Bone Spring Sand			
9,039.73	8,923.00	*Wolfcamp Top*			
9,086.10	8,949.00	WC_X			
9,237.67	9,011.00	WC_Y			
9,277.17	9,021.00	Top Target			
9,404.08	9,035.00	Landing Point			

WPX Energy

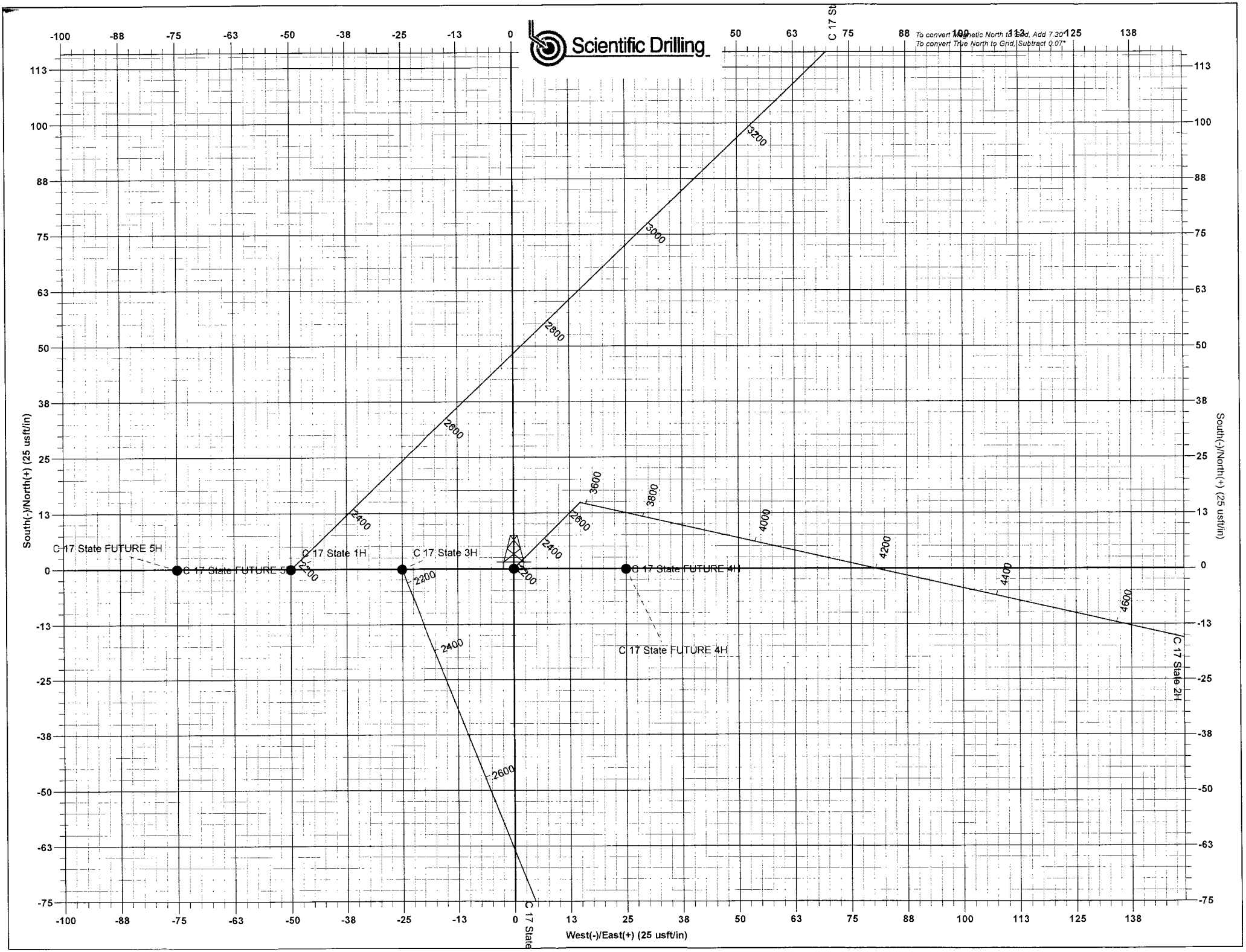
Eddy County, New Mexico NAD 83
C 17 State Pad
C 17 State 2H
API:
Wellbore #1
Plan #1

Anticollision Report

14 December, 2017



Scientific Drilling


Scientific Drilling
To convert Magnetic North to Grid, Add 7.30°
To convert True North to Grid, Subtract 0.07°
C 17 State FUTURE 5H
C 17 State FUTURE 5
C 17 State 1H
C 17 State 3H
C 17 State FUTURE 4H
C 17 State 2H
2200
2400
2600
2800
3000
3200
3600
3800
4000
4200
4400
4600
South(-)/North(+) (25 usft/in)
West(-)/East(+) (25 usft/in)

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 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 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** 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	14,077.15	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	2,643.80	2,646.83	34.38	15.93	1.863	CC, ES, SF
C 17 State 3H - Wellbore #1 - Plan #1	2,100.00	2,100.11	25.00	10.43	1.716	CC
C 17 State 3H - Wellbore #1 - Plan #1	2,200.00	2,200.29	25.30	10.06	1.660	ES, SF
C 17 State FUTURE 4H - Wellbore #1 - Plan #1 FUTURE	2,300.60	2,300.00	21.87	5.87	1.367	Level 3, CC, ES, SF
C 17 State FUTURE 5H - Wellbore #1 - Plan #1 FUTURE	2,000.00	2,000.00	75.00	61.14	5.410	CC
C 17 State FUTURE 5H - Wellbore #1 - Plan #1 FUTURE	2,100.00	2,100.00	75.08	60.50	5.150	ES
C 17 State FUTURE 5H - Wellbore #1 - Plan #1 FUTURE	2,300.00	2,299.93	78.49	62.49	4.907	SF
Cass 16 St. 1H - Wellbore #1 - Wellbore #1	4,243.85	4,253.97	834.16	805.67	29.283	CC
Cass 16 St. 1H - Wellbore #1 - Wellbore #1	4,500.00	4,505.98	835.10	804.79	27.554	ES
Cass 16 St. 1H - Wellbore #1 - Wellbore #1	9,400.00	9,026.58	951.55	889.40	15.310	SF
Cass 16 St. 2H - Wellbore #1 - As Drilled	5,267.29	5,278.23	109.99	72.52	2.936	CC
Cass 16 St. 2H - Wellbore #1 - As Drilled	5,300.00	5,310.16	110.16	72.45	2.921	ES, SF
Cass 16 St. 3H - Wellbore #1 - As Drilled	8,843.93	8,826.00	628.37	567.28	10.286	CC, ES, SF
Cass 16 St. 4H - Wellbore #1 - As Drilled	6,957.51	6,919.73	808.58	759.51	16.478	CC, ES
Cass 16 St. 4H - Wellbore #1 - As Drilled	7,100.00	7,015.52	813.56	763.66	16.305	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, 8400-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	-90.11	-0.10	-50.00	50.00				
100.00	100.00	100.00	100.00	0.12	0.12	-90.11	-0.10	-50.00	50.00	49.76	0.24	208.181	
200.00	200.00	200.00	200.00	0.48	0.48	-90.11	-0.10	-50.00	50.00	49.04	0.96	52.240	
300.00	300.00	300.00	300.00	0.84	0.84	-90.11	-0.10	-50.00	50.00	48.33	1.67	29.868	
400.00	400.00	400.00	400.00	1.20	1.20	-90.11	-0.10	-50.00	50.00	47.61	2.39	20.912	
500.00	500.00	500.00	500.00	1.55	1.55	-90.11	-0.10	-50.00	50.00	46.89	3.11	16.088	
600.00	600.00	600.00	600.00	1.91	1.91	-90.11	-0.10	-50.00	50.00	46.18	3.82	13.072	
700.00	700.00	700.00	700.00	2.27	2.27	-90.11	-0.10	-50.00	50.00	45.46	4.54	11.009	
800.00	800.00	800.00	800.00	2.63	2.63	-90.11	-0.10	-50.00	50.00	44.74	5.26	9.508	
900.00	900.00	900.00	900.00	2.99	2.99	-90.11	-0.10	-50.00	50.00	44.02	5.98	8.367	

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 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 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, 8400-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
1,000.00	1,000.00	1,000.00	1,000.00	3.35	3.35	-90.11	-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	-90.11	-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	-90.11	-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	-90.11	-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	-90.11	-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	-90.11	-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	-90.11	-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	-90.11	-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	-90.11	-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	-90.11	-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	-90.11	-0.10	-50.00	50.00	36.14	13.86	3.607	
2,100.00	2,100.00	2,100.44	2,100.44	7.29	7.29	-135.03	0.05	-49.84	49.92	35.34	14.58	3.424	
2,200.00	2,199.99	2,201.68	2,201.63	7.64	7.65	-133.80	2.17	-47.66	48.82	33.53	15.29	3.194	
2,300.00	2,299.93	2,302.78	2,302.51	8.00	8.01	-130.94	6.76	-42.91	46.51	30.52	15.99	2.908	
2,400.00	2,399.82	2,403.65	2,402.87	8.35	8.37	-125.83	13.81	-35.63	43.16	26.45	16.70	2.584	
2,500.00	2,499.68	2,504.06	2,502.34	8.71	8.73	-115.76	23.26	-25.87	38.62	21.20	17.42	2.217	
2,600.00	2,599.61	2,603.41	2,600.49	9.06	9.09	-98.29	33.98	-14.80	34.86	16.72	18.14	1.922	
2,643.80	2,643.40	2,646.83	2,643.38	9.22	9.24	-88.92	38.66	-9.95	34.38	15.93	18.46	1.863	CC, ES, SF
2,700.00	2,699.59	2,702.48	2,698.36	9.42	9.45	-76.24	44.67	-3.74	35.27	16.40	18.87	1.869	
2,800.00	2,799.59	2,801.33	2,796.01	9.77	9.82	-10.51	55.35	7.28	41.39	21.86	19.53	2.119	
2,900.00	2,899.59	2,900.11	2,893.60	10.13	10.18	3.91	66.01	18.30	51.68	31.43	20.25	2.552	
3,000.00	2,999.59	2,998.90	2,991.19	10.49	10.56	13.20	76.68	29.32	64.11	43.13	20.98	3.056	
3,100.00	3,099.59	3,097.69	3,088.78	10.85	10.93	19.39	87.35	40.34	77.66	55.95	21.71	3.577	
3,200.00	3,199.59	3,196.48	3,186.37	11.21	11.31	23.72	98.02	51.36	91.84	69.40	22.45	4.092	
3,300.00	3,299.59	3,295.26	3,283.95	11.57	11.69	26.88	108.68	62.38	106.40	83.22	23.18	4.590	
3,400.00	3,399.59	3,394.05	3,381.54	11.92	12.07	29.27	119.35	73.40	121.20	97.28	23.92	5.067	
3,500.00	3,499.59	3,492.84	3,479.13	12.28	12.45	31.14	130.02	84.42	136.16	111.50	24.66	5.521	
3,600.00	3,599.58	3,591.72	3,576.82	12.63	12.84	-70.31	140.70	95.45	150.81	125.56	25.25	5.972	
3,700.00	3,699.46	3,690.79	3,674.69	12.97	13.23	-70.33	151.39	106.50	164.33	138.37	25.96	6.330	
3,800.00	3,799.12	3,789.94	3,772.63	13.32	13.61	-71.40	162.10	117.56	176.74	150.07	26.67	6.627	
3,900.00	3,898.43	3,889.04	3,870.53	13.67	14.00	-73.34	172.80	128.62	188.22	160.83	27.39	6.872	
4,000.00	3,997.50	3,988.07	3,968.36	14.02	14.40	-75.77	183.49	139.67	199.44	171.32	28.12	7.094	
4,100.00	4,096.57	4,087.09	4,066.18	14.37	14.79	-77.96	194.19	150.71	210.99	182.14	28.85	7.314	
4,200.00	4,195.64	4,186.12	4,164.00	14.73	15.18	-79.91	204.88	161.76	222.80	193.22	29.58	7.532	
4,300.00	4,294.70	4,285.14	4,261.83	15.09	15.57	-81.67	215.57	172.81	234.85	204.54	30.32	7.746	
4,400.00	4,393.77	4,384.16	4,359.65	15.45	15.97	-83.26	226.26	183.85	247.10	216.04	31.06	7.956	
4,500.00	4,492.84	4,483.19	4,457.48	15.81	16.36	-84.70	236.96	194.90	259.52	227.72	31.80	8.160	
4,600.00	4,591.91	4,582.21	4,555.30	16.18	16.76	-86.01	247.65	205.95	272.09	239.53	32.55	8.359	
4,700.00	4,690.98	4,681.24	4,653.12	16.55	17.16	-87.20	258.34	216.99	284.78	251.48	33.30	8.552	
4,800.00	4,790.04	4,780.26	4,750.95	16.92	17.55	-88.28	269.04	228.04	297.58	263.53	34.05	8.739	
4,900.00	4,889.11	4,879.29	4,848.77	17.29	17.95	-89.28	279.73	239.08	310.48	275.68	34.81	8.920	
5,000.00	4,988.18	4,978.31	4,946.60	17.66	18.35	-90.20	290.42	250.13	323.47	287.91	35.56	9.096	
5,100.00	5,087.25	5,077.34	5,044.42	18.04	18.75	-91.05	301.11	261.18	336.53	300.21	36.32	9.266	
5,200.00	5,186.32	5,176.36	5,142.24	18.41	19.15	-91.84	311.81	272.22	349.66	312.58	37.08	9.430	
5,300.00	5,285.39	5,275.39	5,240.07	18.79	19.55	-92.56	322.50	283.27	362.85	325.01	37.84	9.589	
5,400.00	5,384.45	5,374.41	5,337.89	19.17	19.95	-93.24	333.19	294.32	376.09	337.49	38.60	9.743	
5,500.00	5,483.52	5,473.44	5,435.71	19.55	20.35	-93.87	343.89	305.36	389.38	350.01	39.37	9.891	
5,600.00	5,582.59	5,572.46	5,533.54	19.93	20.75	-94.46	354.58	316.41	402.72	362.58	40.13	10.035	
5,700.00	5,681.66	5,671.48	5,631.36	20.31	21.15	-95.01	365.27	327.46	416.09	375.19	40.90	10.174	
5,800.00	5,780.73	5,770.51	5,729.19	20.69	21.55	-95.53	375.96	338.50	429.50	387.83	41.67	10.308	
5,900.00	5,879.79	5,869.53	5,827.01	21.07	21.95	-96.02	386.66	349.55	442.94	400.50	42.44	10.438	

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 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 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, 8400-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
6,000.00	5,978.86	5,968.56	5,924.83	21.46	22.36	-96.47	397.35	360.60	456.41	413.20	43.21	10.564	
6,100.00	6,077.93	6,067.58	6,022.66	21.84	22.76	-96.90	408.04	371.64	469.91	425.93	43.98	10.685	
6,200.00	6,177.00	6,166.61	6,120.48	22.23	23.16	-97.31	418.74	382.69	483.43	438.68	44.75	10.803	
6,300.00	6,276.07	6,265.63	6,218.31	22.61	23.56	-97.70	429.43	393.74	496.97	451.45	45.52	10.917	
6,400.00	6,375.13	6,364.66	6,316.13	23.00	23.97	-98.06	440.12	404.78	510.54	464.24	46.30	11.028	
6,500.00	6,474.20	6,463.68	6,413.95	23.39	24.37	-98.41	450.81	415.83	524.13	477.06	47.07	11.135	
6,600.00	6,573.27	6,562.71	6,511.78	23.78	24.77	-98.73	461.51	426.88	537.73	489.88	47.85	11.239	
6,700.00	6,672.34	6,661.73	6,609.60	24.17	25.18	-99.05	472.20	437.92	551.35	502.73	48.62	11.340	
6,800.00	6,771.41	6,760.76	6,707.43	24.56	25.58	-99.34	482.89	448.97	564.98	515.58	49.40	11.437	
6,900.00	6,870.47	6,859.78	6,805.25	24.95	25.99	-99.63	493.59	460.02	578.63	528.46	50.18	11.532	
7,000.00	6,969.54	6,958.81	6,903.07	25.34	26.39	-99.90	504.28	471.06	592.29	541.34	50.95	11.624	
7,100.00	7,068.61	7,057.83	7,000.90	25.73	26.80	-100.15	514.97	482.11	605.97	554.24	51.73	11.714	
7,200.00	7,167.68	7,156.85	7,098.72	26.12	27.20	-100.40	525.66	493.16	619.65	567.14	52.51	11.800	
7,300.00	7,266.75	7,255.88	7,196.55	26.51	27.61	-100.63	536.36	504.20	633.35	580.06	53.29	11.885	
7,400.00	7,365.82	7,354.90	7,294.37	26.90	28.01	-100.86	547.05	515.25	647.06	592.99	54.07	11.967	
7,500.00	7,464.88	7,453.93	7,392.19	27.30	28.42	-101.08	557.74	526.29	660.77	605.92	54.85	12.046	
7,600.00	7,563.95	7,552.95	7,490.02	27.69	28.82	-101.28	568.44	537.34	674.50	618.86	55.63	12.124	
7,700.00	7,663.02	7,651.98	7,587.84	28.08	29.23	-101.48	579.13	548.39	688.23	631.82	56.42	12.199	
7,800.00	7,762.09	7,751.00	7,685.67	28.48	29.63	-101.68	589.82	559.43	701.97	644.78	57.20	12.273	
7,900.00	7,861.16	7,850.03	7,783.49	28.87	30.04	-101.86	600.51	570.48	715.72	657.74	57.98	12.344	
8,000.00	7,960.22	7,949.05	7,881.31	29.27	30.44	-102.04	611.21	581.53	729.48	670.71	58.76	12.414	
8,100.00	8,059.29	8,048.08	7,979.14	29.66	30.85	-102.21	621.90	592.57	743.24	683.69	59.55	12.482	
8,200.00	8,158.53	8,161.39	8,091.23	30.05	31.31	-102.55	633.41	604.46	756.13	695.73	60.40	12.518	
8,300.00	8,258.13	8,283.39	8,212.52	30.43	31.78	-102.82	642.51	613.86	765.53	704.27	61.26	12.496	
8,400.00	8,357.98	8,405.99	8,334.85	30.62	32.04	-102.98	648.03	619.56	771.22	709.50	61.72	12.495	
8,500.00	8,457.96	8,528.89	8,457.71	30.63	32.05	-103.05	649.90	621.50	773.16	711.40	61.76	12.519	
8,600.00	8,557.51	8,611.42	8,539.97	30.61	32.04	89.83	650.80	615.83	774.28	712.54	61.74	12.542	
8,700.00	8,654.16	8,693.67	8,620.29	30.55	32.01	89.76	653.52	598.63	777.64	716.00	61.64	12.617	
8,800.00	8,744.98	8,776.31	8,697.63	30.47	31.96	89.66	658.04	570.10	783.19	721.71	61.48	12.738	
8,900.00	8,827.19	8,859.57	8,770.55	30.38	31.89	89.55	664.31	530.55	790.84	729.52	61.32	12.897	
9,000.00	8,898.32	8,943.75	8,837.59	30.34	31.81	89.41	672.25	480.39	800.43	739.21	61.22	13.076	
9,100.00	8,956.18	9,029.15	8,897.27	30.42	31.75	89.26	681.79	420.16	811.79	750.51	61.28	13.247	
9,200.00	8,999.03	9,116.17	8,948.07	30.68	31.69	89.11	692.83	350.48	824.68	763.05	61.63	13.381	
9,300.00	9,025.57	9,205.25	8,988.40	31.20	31.66	88.95	705.24	272.12	838.85	776.48	62.37	13.450	
9,400.00	9,034.98	9,296.92	9,016.56	31.98	31.71	88.81	718.87	186.07	853.96	790.40	63.56	13.436	
9,500.00	9,035.00	9,392.72	9,030.77	32.99	32.20	89.72	733.67	92.61	869.72	804.52	65.20	13.339	
9,600.00	9,035.00	9,518.44	9,032.00	34.21	33.47	89.80	751.99	-31.74	884.73	817.13	67.60	13.088	
9,700.00	9,035.00	9,662.73	9,032.00	35.62	35.32	89.81	766.55	-175.28	895.14	824.38	70.76	12.651	
9,800.00	9,035.00	9,808.18	9,032.00	37.20	37.51	89.81	773.90	-320.53	900.51	826.06	74.45	12.095	
9,900.00	9,035.00	9,925.45	9,032.00	38.92	39.50	89.81	775.12	-437.78	901.79	823.65	78.14	11.541	
10,000.00	9,035.00	10,025.44	9,032.00	40.77	41.32	89.81	775.72	-537.78	902.70	820.91	81.79	11.037	
10,100.00	9,035.00	10,125.44	9,032.00	42.72	43.25	89.81	776.32	-637.77	903.61	817.94	85.67	10.548	
10,200.00	9,035.00	10,225.43	9,032.00	44.78	45.27	89.81	776.91	-737.77	904.53	814.79	89.74	10.079	
10,300.00	9,035.00	10,325.43	9,032.00	46.91	47.38	89.81	777.51	-837.76	905.44	811.46	93.98	9.634	
10,400.00	9,035.00	10,425.43	9,032.00	49.12	49.56	89.81	778.11	-937.75	906.36	807.98	98.37	9.213	
10,500.00	9,035.00	10,525.42	9,032.00	51.39	51.80	89.81	778.71	-1,037.75	907.27	804.38	102.89	8.818	
10,600.00	9,035.00	10,625.42	9,032.00	53.72	54.10	89.81	779.30	-1,137.74	908.19	800.67	107.52	8.446	
10,700.00	9,035.00	10,725.41	9,032.00	56.09	56.45	89.81	779.90	-1,237.74	909.10	796.85	112.25	8.099	
10,800.00	9,035.00	10,825.41	9,032.00	58.51	58.85	89.81	780.50	-1,337.73	910.02	792.95	117.07	7.773	
10,900.00	9,035.00	10,925.40	9,032.00	60.96	61.28	89.81	781.10	-1,437.72	910.93	788.97	121.96	7.469	

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 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 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, 8400-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
11,000.00	9,035.00	11,025.40	9,032.00	63.45	63.75	89.81	781.69	-1,537.72	911.85	784.93	126.92	7.185	
11,100.00	9,035.00	11,125.40	9,032.00	65.97	66.24	89.81	782.29	-1,637.71	912.76	780.83	131.94	6.918	
11,200.00	9,035.00	11,225.39	9,032.00	68.51	68.77	89.81	782.89	-1,737.71	913.68	776.67	137.01	6.669	
11,300.00	9,035.00	11,325.39	9,032.00	71.08	71.32	89.81	783.48	-1,837.70	914.59	772.46	142.13	6.435	
11,400.00	9,035.00	11,425.38	9,032.00	73.66	73.89	89.81	784.08	-1,937.69	915.51	768.22	147.29	6.216	
11,500.00	9,035.00	11,525.38	9,032.00	76.27	76.48	89.81	784.68	-2,037.69	916.42	763.93	152.49	6.010	
11,600.00	9,035.00	11,625.38	9,032.00	78.89	79.09	89.81	785.28	-2,137.68	917.34	759.61	157.73	5.816	
11,700.00	9,035.00	11,725.37	9,032.00	81.53	81.71	89.81	785.87	-2,237.68	918.25	755.26	162.99	5.634	
11,800.00	9,035.00	11,825.37	9,032.00	84.18	84.35	89.81	786.47	-2,337.67	919.16	750.88	168.29	5.462	
11,900.00	9,035.00	11,925.36	9,032.00	86.84	87.00	89.81	787.07	-2,437.66	920.08	746.47	173.61	5.300	
12,000.00	9,035.00	12,025.36	9,032.00	89.52	89.67	89.81	787.67	-2,537.66	920.99	742.05	178.95	5.147	
12,100.00	9,035.00	12,125.35	9,032.00	92.20	92.34	89.81	788.26	-2,637.65	921.91	737.60	184.31	5.002	
12,200.00	9,035.00	12,225.35	9,032.00	94.90	95.03	89.81	788.86	-2,737.65	922.82	733.13	189.70	4.865	
12,300.00	9,035.00	12,325.35	9,032.00	97.60	97.72	89.81	789.46	-2,837.64	923.74	728.64	195.10	4.735	
12,400.00	9,035.00	12,425.34	9,032.00	100.31	100.43	89.81	790.05	-2,937.63	924.65	724.14	200.52	4.611	
12,500.00	9,035.00	12,525.34	9,032.00	103.03	103.14	89.81	790.65	-3,037.63	925.57	719.62	205.95	4.494	
12,600.00	9,035.00	12,625.33	9,032.00	105.76	105.86	89.81	791.25	-3,137.62	926.48	715.08	211.40	4.383	
12,700.00	9,035.00	12,725.33	9,032.00	108.49	108.58	89.81	791.85	-3,237.62	927.40	710.54	216.86	4.276	
12,800.00	9,035.00	12,825.33	9,032.00	111.22	111.32	89.81	792.44	-3,337.61	928.31	705.98	222.33	4.175	
12,900.00	9,035.00	12,925.32	9,032.00	113.97	114.05	89.82	793.04	-3,437.60	929.23	701.41	227.82	4.079	
13,000.00	9,035.00	13,025.32	9,032.00	116.72	116.80	89.82	793.64	-3,537.60	930.14	696.83	233.31	3.987	
13,100.00	9,035.00	13,125.31	9,032.00	119.47	119.54	89.82	794.24	-3,637.59	931.06	692.24	238.81	3.899	
13,200.00	9,035.00	13,225.31	9,032.00	122.23	122.30	89.82	794.83	-3,737.59	931.97	687.65	244.33	3.814	
13,300.00	9,035.00	13,325.30	9,032.00	124.99	125.05	89.82	795.43	-3,837.58	932.89	683.04	249.85	3.734	
13,400.00	9,035.00	13,425.30	9,032.00	127.75	127.82	89.82	796.03	-3,937.57	933.80	678.42	255.38	3.657	
13,500.00	9,035.00	13,525.30	9,032.00	130.52	130.58	89.82	796.63	-4,037.57	934.71	673.80	260.91	3.582	
13,600.00	9,035.00	13,625.29	9,032.00	133.29	133.35	89.82	797.22	-4,137.56	935.63	669.18	266.45	3.511	
13,700.00	9,035.00	13,725.29	9,032.00	136.07	136.12	89.82	797.82	-4,237.56	936.54	664.54	272.00	3.443	
13,800.00	9,035.00	13,825.28	9,032.00	138.85	138.90	89.82	798.42	-4,337.55	937.46	659.90	277.56	3.378	
13,900.00	9,035.00	13,925.28	9,032.00	141.63	141.67	89.82	799.01	-4,437.54	938.37	655.25	283.12	3.314	
14,000.00	9,035.00	14,025.27	9,032.00	144.41	144.45	89.82	799.61	-4,537.54	939.29	650.60	288.69	3.254	
14,077.15	9,035.00	14,102.42	9,032.00	146.56	146.60	89.82	800.07	-4,614.69	939.99	647.01	292.98	3.208	

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 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 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, 8400-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	-90.23	-0.10	-25.00	25.00				
100.00	100.00	100.00	100.00	0.12	0.12	-90.23	-0.10	-25.00	25.00	24.76	0.24	104.091	
200.00	200.00	200.00	200.00	0.48	0.48	-90.23	-0.10	-25.00	25.00	24.04	0.96	26.120	
300.00	300.00	300.00	300.00	0.84	0.84	-90.23	-0.10	-25.00	25.00	23.33	1.67	14.934	
400.00	400.00	400.00	400.00	1.20	1.20	-90.23	-0.10	-25.00	25.00	22.61	2.39	10.456	
500.00	500.00	500.00	500.00	1.55	1.55	-90.23	-0.10	-25.00	25.00	21.89	3.11	8.044	
600.00	600.00	600.00	600.00	1.91	1.91	-90.23	-0.10	-25.00	25.00	21.18	3.82	6.536	
700.00	700.00	700.00	700.00	2.27	2.27	-90.23	-0.10	-25.00	25.00	20.46	4.54	5.504	
800.00	800.00	800.00	800.00	2.63	2.63	-90.23	-0.10	-25.00	25.00	19.74	5.26	4.754	
900.00	900.00	900.00	900.00	2.99	2.99	-90.23	-0.10	-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	-90.23	-0.10	-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	-90.23	-0.10	-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	-90.23	-0.10	-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	-90.23	-0.10	-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	-90.23	-0.10	-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	-90.23	-0.10	-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	-90.23	-0.10	-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	-90.23	-0.10	-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	-90.23	-0.10	-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	-90.23	-0.10	-25.00	25.00	11.86	13.15	1.902	
2,000.00	2,000.00	2,000.00	2,000.00	6.93	6.93	-90.23	-0.10	-25.00	25.00	11.14	13.86	1.803	
2,072.00	2,072.00	2,072.02	2,072.02	7.19	7.19	-135.50	-0.11	-25.00	25.11	10.73	14.38	1.747	
2,100.00	2,100.00	2,100.11	2,100.11	7.29	7.28	-135.86	-0.30	-24.92	25.00	10.43	14.57	1.716 CC	
2,200.00	2,199.99	2,200.29	2,200.24	7.64	7.61	-144.54	-3.07	-23.83	25.30	10.06	15.25	1.660 ES, SF	
2,300.00	2,299.93	2,300.00	2,299.74	8.00	7.94	-161.61	-9.06	-21.46	27.82	11.90	15.92	1.748	
2,400.00	2,399.82	2,398.91	2,398.15	8.35	8.26	179.63	-18.18	-17.86	35.21	18.62	16.59	2.122	
2,500.00	2,499.68	2,496.87	2,495.23	8.71	8.59	164.91	-30.32	-13.07	47.31	30.03	17.28	2.738	
2,600.00	2,599.61	2,593.84	2,590.84	9.06	8.92	153.99	-45.37	-7.13	62.53	44.55	17.98	3.478	
2,700.00	2,699.59	2,691.38	2,686.59	9.42	9.27	145.81	-62.71	-0.29	79.73	61.07	18.67	4.272	
2,800.00	2,799.59	2,789.49	2,782.86	9.77	9.62	-175.09	-80.24	6.63	96.86	77.47	19.38	4.997	
2,900.00	2,899.59	2,887.62	2,879.17	10.13	9.98	-179.36	-97.79	13.56	114.43	94.33	20.10	5.692	
3,000.00	2,999.59	2,985.76	2,975.48	10.49	10.35	177.50	-115.33	20.48	132.47	111.64	20.83	6.360	
3,100.00	3,099.59	3,083.90	3,071.79	10.85	10.72	175.12	-132.87	27.40	150.79	129.23	21.56	6.994	
3,200.00	3,199.59	3,182.03	3,168.09	11.21	11.10	173.26	-150.41	34.33	169.32	147.02	22.30	7.593	
3,300.00	3,299.59	3,280.17	3,264.40	11.57	11.48	171.77	-167.95	41.25	187.98	164.94	23.04	8.159	
3,400.00	3,399.59	3,378.31	3,360.71	11.92	11.87	170.54	-185.49	48.17	206.74	182.96	23.78	8.692	
3,500.00	3,499.59	3,476.44	3,457.02	12.28	12.26	169.52	-203.03	55.10	225.58	201.05	24.53	9.195	
3,600.00	3,599.58	3,574.70	3,553.45	12.63	12.65	65.91	-220.59	62.03	243.98	219.05	24.93	9.788	
3,700.00	3,699.46	3,673.24	3,650.14	12.97	13.05	65.79	-238.21	68.98	261.00	235.38	25.62	10.186	
3,800.00	3,799.12	3,771.92	3,746.99	13.32	13.45	66.34	-255.85	75.94	276.64	250.32	26.32	10.510	
3,900.00	3,898.43	3,870.65	3,843.87	13.67	13.86	67.45	-273.49	82.91	291.00	263.98	27.03	10.767	
4,000.00	3,997.50	3,969.34	3,940.73	14.02	14.26	69.03	-291.13	89.87	304.82	277.08	27.74	10.988	
4,100.00	4,096.57	4,068.04	4,037.59	14.37	14.67	70.50	-308.77	96.83	318.85	290.39	28.46	11.202	
4,200.00	4,195.64	4,166.73	4,134.44	14.73	15.08	71.83	-326.41	103.80	333.07	303.88	29.19	11.411	
4,300.00	4,294.70	4,265.43	4,231.30	15.09	15.50	73.06	-344.06	110.76	347.45	317.53	29.92	11.613	
4,400.00	4,393.77	4,364.13	4,328.16	15.45	15.91	74.19	-361.70	117.72	361.97	331.32	30.65	11.809	
4,500.00	4,492.84	4,462.82	4,425.01	15.81	16.33	75.23	-379.34	124.68	376.63	345.24	31.39	11.998	
4,600.00	4,591.91	4,561.52	4,521.87	16.18	16.74	76.20	-396.98	131.65	391.39	359.26	32.13	12.181	
4,700.00	4,690.98	4,660.21	4,618.73	16.55	17.16	77.09	-414.62	138.61	406.26	373.39	32.88	12.358	
4,800.00	4,790.04	4,758.91	4,715.58	16.92	17.58	77.93	-432.26	145.57	421.22	387.60	33.62	12.528	
4,900.00	4,889.11	4,857.60	4,812.44	17.29	18.01	78.70	-449.90	152.54	436.26	401.89	34.37	12.692	

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 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 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, 8400-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
5,000.00	4,988.18	4,956.30	4,909.30	17.66	18.43	79.42	-467.54	159.50	451.38	416.25	35.13	12.850	
5,100.00	5,087.25	5,055.00	5,006.15	18.04	18.85	80.10	-485.18	166.46	466.55	430.67	35.88	13.002	
5,200.00	5,186.32	5,153.69	5,103.01	18.41	19.28	80.73	-502.82	173.43	481.79	445.15	36.64	13.149	
5,300.00	5,285.39	5,252.39	5,199.86	18.79	19.70	81.33	-520.46	180.39	497.09	459.68	37.40	13.291	
5,400.00	5,384.45	5,351.08	5,296.72	19.17	20.13	81.89	-538.11	187.35	512.43	474.26	38.16	13.427	
5,500.00	5,483.52	5,449.78	5,393.58	19.55	20.56	82.42	-555.75	194.31	527.81	488.89	38.93	13.558	
5,600.00	5,582.59	5,548.47	5,490.43	19.93	20.98	82.91	-573.39	201.28	543.24	503.55	39.70	13.685	
5,700.00	5,681.66	5,647.17	5,587.29	20.31	21.41	83.38	-591.03	208.24	558.71	518.24	40.46	13.807	
5,800.00	5,780.73	5,745.87	5,684.15	20.69	21.84	83.83	-608.67	215.20	574.21	532.98	41.23	13.925	
5,900.00	5,879.79	5,844.56	5,781.00	21.07	22.27	84.25	-626.31	222.17	589.74	547.74	42.01	14.039	
6,000.00	5,978.86	5,943.26	5,877.86	21.46	22.70	84.65	-643.95	229.13	605.31	562.53	42.78	14.149	
6,100.00	6,077.93	6,041.95	5,974.72	21.84	23.13	85.03	-661.59	236.09	620.90	577.34	43.56	14.255	
6,200.00	6,177.00	6,140.65	6,071.57	22.23	23.56	85.39	-679.23	243.05	636.51	592.18	44.33	14.358	
6,300.00	6,276.07	6,239.34	6,168.43	22.61	24.00	85.73	-696.87	250.02	652.15	607.04	45.11	14.457	
6,400.00	6,375.13	6,338.04	6,265.28	23.00	24.43	86.06	-714.52	256.98	667.81	621.92	45.89	14.553	
6,500.00	6,474.20	6,436.74	6,362.14	23.39	24.86	86.37	-732.16	263.94	683.49	636.82	46.67	14.646	
6,600.00	6,573.27	6,535.43	6,459.00	23.78	25.29	86.67	-749.80	270.91	699.19	651.74	47.45	14.735	
6,700.00	6,672.34	6,634.13	6,555.85	24.17	25.73	86.96	-767.44	277.87	714.91	666.68	48.23	14.822	
6,800.00	6,771.41	6,732.82	6,652.71	24.56	26.16	87.23	-785.08	284.83	730.64	681.63	49.02	14.906	
6,900.00	6,870.47	6,831.52	6,749.57	24.95	26.60	87.49	-802.72	291.79	746.39	696.59	49.80	14.988	
7,000.00	6,969.54	6,930.22	6,846.42	25.34	27.03	87.74	-820.36	298.76	762.16	711.57	50.58	15.067	
7,100.00	7,068.61	7,028.91	6,943.28	25.73	27.47	87.98	-838.00	305.72	777.93	726.56	51.37	15.143	
7,200.00	7,167.68	7,127.61	7,040.14	26.12	27.90	88.21	-855.64	312.68	793.72	741.57	52.16	15.218	
7,300.00	7,266.75	7,226.30	7,136.99	26.51	28.34	88.44	-873.28	319.65	809.53	756.58	52.95	15.290	
7,400.00	7,365.82	7,325.00	7,233.85	26.90	28.77	88.65	-890.93	326.61	825.34	771.61	53.73	15.360	
7,500.00	7,464.88	7,423.69	7,330.71	27.30	29.21	88.85	-908.57	333.57	841.17	786.64	54.52	15.427	
7,600.00	7,563.95	7,522.39	7,427.56	27.69	29.64	89.05	-926.21	340.53	857.00	801.69	55.31	15.493	
7,700.00	7,663.02	7,621.09	7,524.42	28.08	30.08	89.24	-943.85	347.50	872.85	816.74	56.10	15.557	
7,800.00	7,762.09	7,719.78	7,621.27	28.48	30.52	89.43	-961.49	354.46	888.70	831.80	56.90	15.620	
7,900.00	7,861.16	7,818.48	7,718.13	28.87	30.96	89.61	-979.13	361.42	904.56	846.87	57.69	15.680	
8,000.00	7,960.22	7,917.17	7,814.99	29.27	31.39	89.78	-996.77	368.39	920.43	861.95	58.48	15.739	
8,100.00	8,059.29	8,015.87	7,911.84	29.66	31.83	89.94	-1,014.41	375.35	936.31	877.04	59.27	15.796	
8,200.00	8,158.53	8,151.13	8,045.14	30.05	32.41	90.40	-1,035.70	383.75	950.31	890.10	60.21	15.783	
8,300.00	8,258.13	8,287.88	8,180.85	30.43	32.95	90.76	-1,051.24	389.89	960.43	899.32	61.12	15.715	
8,400.00	8,357.98	8,425.47	8,318.05	30.62	33.21	90.97	-1,060.79	393.65	966.61	905.07	61.55	15.705	
8,500.00	8,457.96	8,563.50	8,456.02	30.63	33.23	91.04	-1,064.19	395.00	968.81	907.24	61.58	15.733	
8,600.00	8,557.51	8,637.99	8,530.35	30.61	33.23	-76.20	-1,064.21	391.03	968.23	906.62	61.61	15.716	
8,700.00	8,654.16	8,709.33	8,600.49	30.55	33.22	-76.68	-1,064.25	378.27	966.48	905.02	61.46	15.726	
8,800.00	8,744.98	8,781.20	8,669.01	30.47	33.20	-77.47	-1,064.32	356.70	963.68	902.50	61.18	15.751	
8,900.00	8,827.19	8,850.00	8,731.57	30.38	33.18	-78.50	-1,064.41	328.18	960.07	899.18	60.88	15.769	
9,000.00	8,898.32	8,927.84	8,797.64	30.34	33.14	-79.90	-1,064.54	287.15	955.89	895.21	60.68	15.754	
9,100.00	8,956.18	9,000.00	8,853.41	30.42	33.11	-81.45	-1,064.68	241.43	951.54	890.86	60.68	15.681	
9,200.00	8,999.03	9,080.91	8,908.56	30.68	33.09	-83.31	-1,064.87	182.32	947.38	886.38	61.00	15.531	
9,300.00	9,025.57	9,161.16	8,954.49	31.20	33.06	-85.28	-1,065.07	116.59	943.85	882.18	61.67	15.305	
9,400.00	9,034.98	9,244.82	8,992.12	31.98	33.05	-87.38	-1,065.31	41.95	941.34	878.62	62.72	15.009	
9,500.00	9,035.00	9,335.13	9,020.08	32.99	33.04	-89.09	-1,065.57	-43.82	940.32	876.14	64.18	14.652	
9,600.00	9,035.00	9,432.79	9,034.76	34.21	33.08	-89.99	-1,065.88	-140.24	940.19	874.06	66.13	14.217	
9,700.00	9,035.00	9,532.80	9,036.00	35.62	33.39	-90.06	-1,066.19	-240.23	940.19	871.60	68.58	13.709	
9,800.00	9,035.00	9,632.80	9,036.00	37.20	34.45	-90.06	-1,066.50	-340.23	940.18	868.79	71.39	13.170	
9,900.00	9,035.00	9,732.80	9,036.00	38.92	35.84	-90.06	-1,066.81	-440.23	940.18	865.65	74.53	12.615	

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 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 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, 8400-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
10,000.00	9,035.00	9,832.80	9,036.00	40.77	37.42	-90.06	-1,067.13	-540.23	940.17	862.22	77.96	12.060	
10,100.00	9,035.00	9,932.80	9,036.00	42.72	39.14	-90.06	-1,067.44	-640.23	940.17	858.53	81.64	11.516	
10,200.00	9,035.00	10,032.80	9,036.00	44.78	40.99	-90.06	-1,067.75	-740.23	940.16	854.62	85.55	10.990	
10,300.00	9,035.00	10,132.80	9,036.00	46.91	42.95	-90.06	-1,068.07	-840.23	940.16	850.51	89.65	10.487	
10,400.00	9,035.00	10,232.80	9,036.00	49.12	45.01	-90.06	-1,068.38	-940.22	940.15	846.24	93.91	10.011	
10,500.00	9,035.00	10,332.80	9,036.00	51.39	47.14	-90.06	-1,068.69	-1,040.22	940.15	841.83	98.33	9.562	
10,600.00	9,035.00	10,432.80	9,036.00	53.72	49.35	-90.06	-1,069.01	-1,140.22	940.15	837.28	102.86	9.140	
10,700.00	9,035.00	10,532.80	9,036.00	56.09	51.62	-90.06	-1,069.32	-1,240.22	940.14	832.63	107.51	8.744	
10,800.00	9,035.00	10,632.80	9,036.00	58.51	53.95	-90.06	-1,069.63	-1,340.22	940.14	827.88	112.26	8.375	
10,900.00	9,035.00	10,732.80	9,036.00	60.96	56.32	-90.06	-1,069.94	-1,440.22	940.13	823.04	117.09	8.029	
11,000.00	9,035.00	10,832.80	9,036.00	63.45	58.74	-90.06	-1,070.26	-1,540.22	940.13	818.13	122.00	7.706	
11,100.00	9,035.00	10,932.80	9,036.00	65.97	61.19	-90.06	-1,070.57	-1,640.22	940.12	813.15	126.98	7.404	
11,200.00	9,035.00	11,032.80	9,036.00	68.51	63.67	-90.06	-1,070.88	-1,740.22	940.12	808.11	132.01	7.122	
11,300.00	9,035.00	11,132.80	9,036.00	71.08	66.19	-90.06	-1,071.20	-1,840.22	940.12	803.02	137.09	6.858	
11,400.00	9,035.00	11,232.80	9,036.00	73.66	68.73	-90.06	-1,071.51	-1,940.22	940.11	797.89	142.22	6.610	
11,500.00	9,035.00	11,332.80	9,036.00	76.27	71.29	-90.06	-1,071.82	-2,040.22	940.11	792.71	147.40	6.378	
11,600.00	9,035.00	11,432.80	9,036.00	78.89	73.88	-90.06	-1,072.13	-2,140.22	940.10	787.50	152.61	6.160	
11,700.00	9,035.00	11,532.80	9,036.00	81.53	76.48	-90.06	-1,072.45	-2,240.22	940.10	782.25	157.85	5.956	
11,800.00	9,035.00	11,632.80	9,036.00	84.18	79.10	-90.06	-1,072.76	-2,340.22	940.09	776.97	163.13	5.763	
11,900.00	9,035.00	11,732.80	9,036.00	86.84	81.73	-90.06	-1,073.07	-2,440.22	940.09	771.66	168.43	5.582	
12,000.00	9,035.00	11,832.80	9,036.00	89.52	84.38	-90.06	-1,073.39	-2,540.22	940.08	766.33	173.76	5.410	
12,100.00	9,035.00	11,932.80	9,036.00	92.20	87.04	-90.06	-1,073.70	-2,640.22	940.08	760.97	179.11	5.249	
12,200.00	9,035.00	12,032.80	9,036.00	94.90	89.72	-90.06	-1,074.01	-2,740.22	940.08	755.60	184.48	5.096	
12,300.00	9,035.00	12,132.80	9,036.00	97.60	92.40	-90.06	-1,074.33	-2,840.22	940.07	750.21	189.87	4.951	
12,400.00	9,035.00	12,232.80	9,036.00	100.31	95.09	-90.06	-1,074.64	-2,940.21	940.07	744.79	195.27	4.814	
12,500.00	9,035.00	12,332.80	9,036.00	103.03	97.80	-90.06	-1,074.95	-3,040.21	940.06	739.37	200.70	4.684	
12,600.00	9,035.00	12,432.80	9,036.00	105.76	100.50	-90.06	-1,075.26	-3,140.21	940.06	733.92	206.14	4.560	
12,700.00	9,035.00	12,532.80	9,036.00	108.49	103.22	-90.06	-1,075.58	-3,240.21	940.05	728.47	211.59	4.443	
12,800.00	9,035.00	12,632.80	9,036.00	111.22	105.95	-90.06	-1,075.89	-3,340.21	940.05	723.00	217.05	4.331	
12,900.00	9,035.00	12,732.80	9,036.00	113.97	108.68	-90.06	-1,076.20	-3,440.21	940.04	717.52	222.53	4.224	
13,000.00	9,035.00	12,832.80	9,036.00	116.72	111.41	-90.06	-1,076.52	-3,540.21	940.04	712.03	228.02	4.123	
13,100.00	9,035.00	12,932.80	9,036.00	119.47	114.15	-90.06	-1,076.83	-3,640.21	940.04	706.52	233.51	4.026	
13,200.00	9,035.00	13,032.80	9,036.00	122.23	116.90	-90.06	-1,077.14	-3,740.21	940.03	701.01	239.02	3.933	
13,300.00	9,035.00	13,132.80	9,036.00	124.99	119.65	-90.06	-1,077.46	-3,840.21	940.03	695.49	244.53	3.844	
13,400.00	9,035.00	13,232.80	9,036.00	127.75	122.41	-90.06	-1,077.77	-3,940.21	940.02	689.97	250.06	3.759	
13,500.00	9,035.00	13,332.80	9,036.00	130.52	125.17	-90.06	-1,078.08	-4,040.21	940.02	684.43	255.59	3.678	
13,600.00	9,035.00	13,432.80	9,036.00	133.29	127.93	-90.06	-1,078.39	-4,140.21	940.01	678.89	261.13	3.600	
13,700.00	9,035.00	13,532.80	9,036.00	136.07	130.70	-90.06	-1,078.71	-4,240.21	940.01	673.34	266.67	3.525	
13,800.00	9,035.00	13,632.80	9,036.00	138.85	133.47	-90.06	-1,079.02	-4,340.21	940.01	667.78	272.22	3.453	
13,900.00	9,035.00	13,732.80	9,036.00	141.63	136.25	-90.06	-1,079.33	-4,440.21	940.00	662.22	277.78	3.384	
14,000.00	9,035.00	13,832.80	9,036.00	144.41	139.02	-90.06	-1,079.65	-4,540.21	940.00	656.65	283.34	3.318	
14,077.15	9,035.00	13,909.95	9,036.00	146.56	141.17	-90.06	-1,079.89	-4,617.36	939.99	652.36	287.64	3.268	

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 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 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 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 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	90.23	-0.10	25.00	25.00				
100.00	100.00	100.00	100.00	0.12	0.12	90.23	-0.10	25.00	25.00	24.76	0.24	104.091	
200.00	200.00	200.00	200.00	0.48	0.48	90.23	-0.10	25.00	25.00	24.04	0.96	26.120	
300.00	300.00	300.00	300.00	0.84	0.84	90.23	-0.10	25.00	25.00	23.33	1.67	14.934	
400.00	400.00	400.00	400.00	1.20	1.20	90.23	-0.10	25.00	25.00	22.61	2.39	10.456	
500.00	500.00	500.00	500.00	1.55	1.55	90.23	-0.10	25.00	25.00	21.89	3.11	8.044	
600.00	600.00	600.00	600.00	1.91	1.91	90.23	-0.10	25.00	25.00	21.18	3.82	6.536	
700.00	700.00	700.00	700.00	2.27	2.27	90.23	-0.10	25.00	25.00	20.46	4.54	5.504	
800.00	800.00	800.00	800.00	2.63	2.63	90.23	-0.10	25.00	25.00	19.74	5.26	4.754	
900.00	900.00	900.00	900.00	2.99	2.99	90.23	-0.10	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	90.23	-0.10	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	90.23	-0.10	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	90.23	-0.10	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	90.23	-0.10	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	90.23	-0.10	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	90.23	-0.10	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	90.23	-0.10	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	90.23	-0.10	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	90.23	-0.10	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	90.23	-0.10	25.00	25.00	11.86	13.15	1.902	
2,000.00	2,000.00	2,000.00	2,000.00	6.93	6.93	90.23	-0.10	25.00	25.00	11.14	13.86	1.803	
2,100.00	2,100.00	2,100.00	2,100.00	7.29	7.29	45.40	-0.10	25.00	24.93	10.35	14.58	1.710	
2,200.00	2,199.99	2,199.99	2,199.99	7.64	7.65	47.94	-0.10	25.00	23.91	8.62	15.29	1.564	
2,300.00	2,299.93	2,299.93	2,299.93	8.00	8.01	54.25	-0.10	25.00	21.88	5.88	16.00	1.367	Level 3
2,300.60	2,300.53	2,300.00	2,300.00	8.00	8.01	54.25	-0.10	25.00	21.87	5.87	16.00	1.367	Level 3, CC, ES, SF
2,400.00	2,399.82	2,300.00	2,300.00	8.35	8.01	53.49	-0.10	25.00	101.69	85.34	16.35	6.220	
2,500.00	2,499.68	2,300.00	2,300.00	8.71	8.01	55.88	-0.10	25.00	200.49	183.79	16.70	12.002	
2,600.00	2,599.61	2,300.00	2,300.00	9.06	8.01	66.62	-0.10	25.00	300.14	283.07	17.06	17.589	
2,700.00	2,699.59	2,300.00	2,300.00	9.42	8.01	84.94	-0.10	25.00	400.00	382.57	17.42	22.960	
2,800.00	2,799.59	2,300.00	2,300.00	9.77	8.01	145.63	-0.10	25.00	499.92	482.14	17.78	28.121	
2,900.00	2,899.59	2,300.00	2,300.00	10.13	8.01	145.63	-0.10	25.00	599.86	581.73	18.14	33.077	
3,000.00	2,999.59	2,300.00	2,300.00	10.49	8.01	145.63	-0.10	25.00	699.82	681.33	18.49	37.841	
3,100.00	3,099.59	2,300.00	2,300.00	10.85	8.01	145.63	-0.10	25.00	799.79	780.94	18.85	42.425	
3,200.00	3,199.59	2,300.00	2,300.00	11.21	8.01	145.63	-0.10	25.00	899.77	880.56	19.21	46.839	
3,300.00	3,299.59	2,300.00	2,300.00	11.57	8.01	145.63	-0.10	25.00	999.75	980.18	19.57	51.091	
3,400.00	3,399.59	2,300.00	2,300.00	11.92	8.01	145.63	-0.10	25.00	1,099.74	1,079.81	19.93	55.190	
3,500.00	3,499.59	2,300.00	2,300.00	12.28	8.01	145.63	-0.10	25.00	1,199.72	1,179.44	20.28	59.145	
3,600.00	3,599.58	2,300.00	2,300.00	12.63	8.01	13.68	-0.10	25.00	1,299.69	1,279.06	20.63	63.009	
3,700.00	3,699.46	2,300.00	2,300.00	12.97	8.01	7.18	-0.10	25.00	1,399.53	1,378.60	20.94	66.850	
3,800.00	3,799.12	2,300.00	2,300.00	13.32	8.01	4.75	-0.10	25.00	1,499.17	1,477.95	21.22	70.647	
3,900.00	3,898.43	2,300.00	2,300.00	13.67	8.01	3.49	-0.10	25.00	1,598.53	1,577.05	21.48	74.414	
4,000.00	3,997.50	2,300.00	2,300.00	14.02	8.01	3.43	-0.10	25.00	1,697.75	1,675.93	21.82	77.815	
4,100.00	4,096.57	2,300.00	2,300.00	14.37	8.01	3.43	-0.10	25.00	1,797.05	1,774.89	22.16	81.089	
4,200.00	4,195.64	2,300.00	2,300.00	14.73	8.01	3.43	-0.10	25.00	1,896.43	1,873.92	22.51	84.261	
4,300.00	4,294.70	2,300.00	2,300.00	15.09	8.01	3.43	-0.10	25.00	1,995.87	1,973.02	22.85	87.335	
4,400.00	4,393.77	2,300.00	2,300.00	15.45	8.01	3.43	-0.10	25.00	2,095.36	2,072.16	23.20	90.315	
4,500.00	4,492.84	2,300.00	2,300.00	15.81	8.01	3.43	-0.10	25.00	2,194.90	2,171.35	23.55	93.205	
4,600.00	4,591.91	2,300.00	2,300.00	16.18	8.01	3.43	-0.10	25.00	2,294.48	2,270.58	23.90	96.008	
4,700.00	4,690.98	2,300.00	2,300.00	16.55	8.01	3.43	-0.10	25.00	2,394.10	2,369.85	24.25	98.727	
4,800.00	4,790.04	2,300.00	2,300.00	16.92	8.01	3.43	-0.10	25.00	2,493.74	2,469.14	24.60	101.367	
4,900.00	4,889.11	2,300.00	2,300.00	17.29	8.01	3.43	-0.10	25.00	2,593.41	2,568.46	24.95	103.930	

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 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 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 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 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
5,000.00	4,988.18	2,300.00	2,300.00	17.66	8.01	3.43	-0.10	25.00	2,693.11	2,667.80	25.31	106.420	
5,100.00	5,087.25	2,300.00	2,300.00	18.04	8.01	3.43	-0.10	25.00	2,792.83	2,767.17	25.66	108.838	
5,200.00	5,186.32	2,300.00	2,300.00	18.41	8.01	3.43	-0.10	25.00	2,892.57	2,866.55	26.01	111.189	
5,300.00	5,285.39	2,300.00	2,300.00	18.79	8.01	3.43	-0.10	25.00	2,992.32	2,965.95	26.37	113.474	
5,400.00	5,384.45	2,300.00	2,300.00	19.17	8.01	3.43	-0.10	25.00	3,092.09	3,065.37	26.73	115.696	
5,500.00	5,483.52	2,300.00	2,300.00	19.55	8.01	3.43	-0.10	25.00	3,191.88	3,164.80	27.08	117.858	
5,600.00	5,582.59	2,300.00	2,300.00	19.93	8.01	3.43	-0.10	25.00	3,291.68	3,264.24	27.44	119.962	
5,700.00	5,681.66	2,300.00	2,300.00	20.31	8.01	3.43	-0.10	25.00	3,391.49	3,363.69	27.80	122.010	
5,800.00	5,780.73	2,300.00	2,300.00	20.69	8.01	3.43	-0.10	25.00	3,491.31	3,463.16	28.15	124.004	
5,900.00	5,879.79	2,300.00	2,300.00	21.07	8.01	3.43	-0.10	25.00	3,591.14	3,562.63	28.51	125.947	
6,000.00	5,978.86	2,300.00	2,300.00	21.46	8.01	3.43	-0.10	25.00	3,690.98	3,662.11	28.87	127.839	
6,100.00	6,077.93	2,300.00	2,300.00	21.84	8.01	3.43	-0.10	25.00	3,790.83	3,761.60	29.23	129.684	
6,200.00	6,177.00	2,300.00	2,300.00	22.23	8.01	3.43	-0.10	25.00	3,890.69	3,861.10	29.59	131.482	
6,300.00	6,276.07	2,300.00	2,300.00	22.61	8.01	3.43	-0.10	25.00	3,990.55	3,960.60	29.95	133.235	
6,400.00	6,375.13	2,300.00	2,300.00	23.00	8.01	3.43	-0.10	25.00	4,090.42	4,060.11	30.31	134.946	
6,500.00	6,474.20	2,300.00	2,300.00	23.39	8.01	3.43	-0.10	25.00	4,190.30	4,159.63	30.67	136.615	
6,600.00	6,573.27	2,300.00	2,300.00	23.78	8.01	3.43	-0.10	25.00	4,290.18	4,259.15	31.03	138.244	
6,700.00	6,672.34	2,300.00	2,300.00	24.17	8.01	3.43	-0.10	25.00	4,390.07	4,358.67	31.39	139.834	
6,800.00	6,771.41	2,300.00	2,300.00	24.56	8.01	3.43	-0.10	25.00	4,489.96	4,458.20	31.76	141.386	
6,900.00	6,870.47	2,300.00	2,300.00	24.95	8.01	3.43	-0.10	25.00	4,589.86	4,557.74	32.12	142.903	
7,000.00	6,969.54	2,300.00	2,300.00	25.34	8.01	3.43	-0.10	25.00	4,689.76	4,657.28	32.48	144.385	
7,100.00	7,068.61	2,300.00	2,300.00	25.73	8.01	3.43	-0.10	25.00	4,789.67	4,756.82	32.84	145.833	
7,200.00	7,167.68	2,300.00	2,300.00	26.12	8.01	3.43	-0.10	25.00	4,889.58	4,856.37	33.21	147.248	
7,300.00	7,266.75	2,300.00	2,300.00	26.51	8.01	3.43	-0.10	25.00	4,989.49	4,955.92	33.57	148.632	
7,400.00	7,365.82	2,300.00	2,300.00	26.90	8.01	3.43	-0.10	25.00	5,089.41	5,055.47	33.93	149.986	
7,500.00	7,464.88	2,300.00	2,300.00	27.30	8.01	3.43	-0.10	25.00	5,189.33	5,155.03	34.30	151.309	
7,600.00	7,563.95	2,300.00	2,300.00	27.69	8.01	3.43	-0.10	25.00	5,289.25	5,254.59	34.66	152.605	
7,700.00	7,663.02	2,300.00	2,300.00	28.08	8.01	3.43	-0.10	25.00	5,389.18	5,354.15	35.02	153.872	
7,800.00	7,762.09	2,300.00	2,300.00	28.48	8.01	3.43	-0.10	25.00	5,489.10	5,453.72	35.39	155.113	
7,900.00	7,861.16	2,300.00	2,300.00	28.87	8.01	3.43	-0.10	25.00	5,589.03	5,553.28	35.75	156.327	
8,000.00	7,960.22	2,300.00	2,300.00	29.27	8.01	3.43	-0.10	25.00	5,688.97	5,652.85	36.12	157.517	
8,100.00	8,059.29	2,300.00	2,300.00	29.66	8.01	3.43	-0.10	25.00	5,788.90	5,752.42	36.48	158.682	
8,200.00	8,158.53	2,300.00	2,300.00	30.05	8.01	24.40	-0.10	25.00	5,888.87	5,851.79	37.08	158.806	
8,300.00	8,258.13	2,300.00	2,300.00	30.43	8.01	176.10	-0.10	25.00	5,988.86	5,951.55	37.32	160.490	
8,400.00	8,357.98	2,300.00	2,300.00	30.62	8.01	178.20	-0.10	25.00	6,088.75	6,051.26	37.48	162.443	
8,500.00	8,457.96	2,300.00	2,300.00	30.63	8.01	178.83	-0.10	25.00	6,188.41	6,150.98	37.44	165.307	
8,600.00	8,557.51	2,300.00	2,300.00	30.61	8.01	4.40	-0.10	25.00	6,286.72	6,250.06	36.67	171.452	
8,700.00	8,654.16	2,300.00	2,300.00	30.55	8.01	2.69	-0.10	25.00	6,380.65	6,345.76	34.88	182.912	
8,800.00	8,744.98	2,300.00	2,300.00	30.47	8.01	1.97	-0.10	25.00	6,467.58	6,435.38	32.19	200.890	
8,900.00	8,827.19	2,300.00	2,300.00	30.38	8.01	1.58	-0.10	25.00	6,545.21	6,516.46	28.74	227.712	
9,000.00	8,898.32	2,300.00	2,300.00	30.34	8.01	1.36	-0.10	25.00	6,611.54	6,586.80	24.74	267.223	
9,100.00	8,956.18	2,300.00	2,300.00	30.42	8.01	1.21	-0.10	25.00	6,664.92	6,644.40	20.52	324.863	
9,200.00	8,999.03	2,300.00	2,300.00	30.68	8.01	1.13	-0.10	25.00	6,704.05	6,687.44	16.61	403.513	
9,300.00	9,025.57	2,300.00	2,300.00	31.20	8.01	1.08	-0.10	25.00	6,728.01	6,714.04	13.97	481.775	
9,400.00	9,034.98	2,300.00	2,300.00	31.98	8.01	1.06	-0.10	25.00	6,736.22	6,722.54	13.68	492.382	
9,500.00	9,035.00	2,300.00	2,300.00	32.99	8.01	1.06	-0.10	25.00	6,736.51	6,722.52	13.99	481.592	
9,600.00	9,035.00	2,300.00	2,300.00	34.21	8.01	1.06	-0.10	25.00	6,738.27	6,723.96	14.31	471.037	
9,700.00	9,035.00	2,300.00	2,300.00	35.62	8.01	1.06	-0.10	25.00	6,741.51	6,726.85	14.67	459.696	
9,800.00	9,035.00	2,300.00	2,300.00	37.20	8.01	1.06	-0.10	25.00	6,746.23	6,731.17	15.06	447.833	
9,900.00	9,035.00	2,300.00	2,300.00	38.92	8.01	1.06	-0.10	25.00	6,752.44	6,736.94	15.50	435.678	

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 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 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 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 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
10,000.00	9,035.00	2,300.00	2,300.00	40.77	8.01	1.06	-0.10	25.00	6,760.11	6,744.15	15.97	423.427	
10,100.00	9,035.00	2,300.00	2,300.00	42.72	8.01	1.06	-0.10	25.00	6,769.26	6,752.80	16.46	411.239	
10,200.00	9,035.00	2,300.00	2,300.00	44.78	8.01	1.06	-0.10	25.00	6,779.86	6,762.88	16.98	399.241	
10,300.00	9,035.00	2,300.00	2,300.00	46.91	8.01	1.06	-0.10	25.00	6,791.93	6,774.40	17.53	387.528	
10,400.00	9,035.00	2,300.00	2,300.00	49.12	8.01	1.06	-0.10	25.00	6,805.44	6,787.35	18.09	376.170	
10,500.00	9,035.00	2,300.00	2,300.00	51.39	8.01	1.06	-0.10	25.00	6,820.39	6,801.71	18.68	365.213	
10,600.00	9,035.00	2,300.00	2,300.00	53.72	8.01	1.06	-0.10	25.00	6,836.77	6,817.49	19.28	354.689	
10,700.00	9,035.00	2,300.00	2,300.00	56.09	8.01	1.06	-0.10	25.00	6,854.57	6,834.68	19.89	344.614	
10,800.00	9,035.00	2,300.00	2,300.00	58.51	8.01	1.06	-0.10	25.00	6,873.78	6,853.26	20.52	334.993	
10,900.00	9,035.00	2,300.00	2,300.00	60.96	8.01	1.06	-0.10	25.00	6,894.38	6,873.22	21.16	325.826	
11,000.00	9,035.00	2,300.00	2,300.00	63.45	8.01	1.06	-0.10	25.00	6,916.38	6,894.56	21.81	317.103	
11,100.00	9,035.00	2,300.00	2,300.00	65.97	8.01	1.06	-0.10	25.00	6,939.74	6,917.27	22.47	308.813	
11,200.00	9,035.00	2,300.00	2,300.00	68.51	8.01	1.06	-0.10	25.00	6,964.46	6,941.32	23.14	300.941	
11,300.00	9,035.00	2,300.00	2,300.00	71.08	8.01	1.06	-0.10	25.00	6,990.52	6,966.70	23.82	293.470	
11,400.00	9,035.00	2,300.00	2,300.00	73.66	8.01	1.06	-0.10	25.00	7,017.91	6,993.41	24.51	286.382	
11,500.00	9,035.00	2,300.00	2,300.00	76.27	8.01	1.06	-0.10	25.00	7,046.62	7,021.42	25.20	279.659	
11,600.00	9,035.00	2,300.00	2,300.00	78.89	8.01	1.06	-0.10	25.00	7,076.62	7,050.72	25.90	273.281	
11,700.00	9,035.00	2,300.00	2,300.00	81.53	8.01	1.06	-0.10	25.00	7,107.90	7,081.30	26.60	267.231	
11,800.00	9,035.00	2,300.00	2,300.00	84.18	8.01	1.06	-0.10	25.00	7,140.45	7,113.14	27.31	261.492	
11,900.00	9,035.00	2,300.00	2,300.00	86.84	8.01	1.06	-0.10	25.00	7,174.24	7,146.22	28.02	256.044	
12,000.00	9,035.00	2,300.00	2,300.00	89.52	8.01	1.06	-0.10	25.00	7,209.26	7,180.52	28.74	250.874	
12,100.00	9,035.00	2,300.00	2,300.00	92.20	8.01	1.06	-0.10	25.00	7,245.49	7,216.03	29.46	245.963	
12,200.00	9,035.00	2,300.00	2,300.00	94.90	8.01	1.06	-0.10	25.00	7,282.91	7,252.73	30.18	241.298	
12,300.00	9,035.00	2,300.00	2,300.00	97.60	8.01	1.06	-0.10	25.00	7,321.51	7,290.60	30.91	236.865	
12,400.00	9,035.00	2,300.00	2,300.00	100.31	8.01	1.06	-0.10	25.00	7,361.27	7,329.63	31.64	232.649	
12,500.00	9,035.00	2,300.00	2,300.00	103.03	8.01	1.06	-0.10	25.00	7,402.16	7,369.79	32.37	228.639	
12,600.00	9,035.00	2,300.00	2,300.00	105.76	8.01	1.06	-0.10	25.00	7,444.17	7,411.06	33.11	224.823	
12,700.00	9,035.00	2,300.00	2,300.00	108.49	8.01	1.06	-0.10	25.00	7,487.28	7,453.43	33.85	221.189	
12,800.00	9,035.00	2,300.00	2,300.00	111.22	8.01	1.06	-0.10	25.00	7,531.47	7,496.88	34.59	217.728	
12,900.00	9,035.00	2,300.00	2,300.00	113.97	8.01	1.06	-0.10	25.00	7,576.73	7,541.39	35.33	214.428	
13,000.00	9,035.00	2,300.00	2,300.00	116.72	8.01	1.06	-0.10	25.00	7,623.03	7,586.95	36.08	211.283	
13,100.00	9,035.00	2,300.00	2,300.00	119.47	8.01	1.06	-0.10	25.00	7,670.35	7,633.52	36.83	208.281	
13,200.00	9,035.00	2,300.00	2,300.00	122.23	8.01	1.06	-0.10	25.00	7,718.68	7,681.10	37.58	205.417	
13,300.00	9,035.00	2,300.00	2,300.00	124.99	8.01	1.06	-0.10	25.00	7,767.99	7,729.67	38.33	202.681	
13,400.00	9,035.00	2,300.00	2,300.00	127.75	8.01	1.06	-0.10	25.00	7,818.27	7,779.20	39.08	200.068	
13,500.00	9,035.00	2,300.00	2,300.00	130.52	8.01	1.06	-0.10	25.00	7,869.51	7,829.67	39.83	197.570	
13,600.00	9,035.00	2,300.00	2,300.00	133.29	8.01	1.06	-0.10	25.00	7,921.67	7,881.08	40.59	195.181	
13,700.00	9,035.00	2,300.00	2,300.00	136.07	8.01	1.06	-0.10	25.00	7,974.74	7,933.40	41.34	192.895	
13,800.00	9,035.00	2,300.00	2,300.00	138.85	8.01	1.06	-0.10	25.00	8,028.71	7,986.62	42.10	190.708	
13,900.00	9,035.00	2,300.00	2,300.00	141.63	8.01	1.06	-0.10	25.00	8,083.56	8,040.70	42.86	188.613	
14,000.00	9,035.00	2,300.00	2,300.00	144.41	8.01	1.06	-0.10	25.00	8,139.27	8,095.65	43.62	186.606	
14,077.15	9,035.00	2,300.00	2,300.00	146.56	8.01	1.06	-0.10	25.00	8,182.82	8,138.62	44.20	185.115	

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 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 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 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 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	-90.08	-0.10	-75.00	75.00				
100.00	100.00	100.00	100.00	0.12	0.12	-90.08	-0.10	-75.00	75.00	74.76	0.24	312.271	
200.00	200.00	200.00	200.00	0.48	0.48	-90.08	-0.10	-75.00	75.00	74.04	0.96	78.360	
300.00	300.00	300.00	300.00	0.84	0.84	-90.08	-0.10	-75.00	75.00	73.33	1.67	44.801	
400.00	400.00	400.00	400.00	1.20	1.20	-90.08	-0.10	-75.00	75.00	72.61	2.39	31.368	
500.00	500.00	500.00	500.00	1.55	1.55	-90.08	-0.10	-75.00	75.00	71.89	3.11	24.132	
600.00	600.00	600.00	600.00	1.91	1.91	-90.08	-0.10	-75.00	75.00	71.18	3.82	19.608	
700.00	700.00	700.00	700.00	2.27	2.27	-90.08	-0.10	-75.00	75.00	70.46	4.54	16.513	
800.00	800.00	800.00	800.00	2.63	2.63	-90.08	-0.10	-75.00	75.00	69.74	5.26	14.262	
900.00	900.00	900.00	900.00	2.99	2.99	-90.08	-0.10	-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	-90.08	-0.10	-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	-90.08	-0.10	-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	-90.08	-0.10	-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	-90.08	-0.10	-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	-90.08	-0.10	-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	-90.08	-0.10	-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	-90.08	-0.10	-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	-90.08	-0.10	-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	-90.08	-0.10	-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	-90.08	-0.10	-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	-90.08	-0.10	-75.00	75.00	61.14	13.86	5.410 CC	
2,043.18	2,043.18	2,043.18	2,043.18	7.09	7.09	-135.11	-0.10	-75.00	75.04	60.87	14.17	5.295	
2,100.00	2,100.00	2,100.00	2,100.00	7.29	7.29	-135.13	-0.10	-75.00	75.08	60.50	14.58	5.150 ES	
2,200.00	2,199.99	2,199.99	2,199.99	7.64	7.65	-135.91	-0.10	-75.00	76.13	60.85	15.29	4.980	
2,300.00	2,299.93	2,299.93	2,299.93	8.00	8.01	-137.54	-0.10	-75.00	78.49	62.49	15.99	4.907 SF	
2,400.00	2,399.82	2,300.00	2,300.00	8.35	8.01	-137.34	-0.10	-75.00	129.27	112.92	16.34	7.909	
2,500.00	2,499.68	2,300.00	2,300.00	8.71	8.01	-137.90	-0.10	-75.00	217.46	200.76	16.70	13.022	
2,600.00	2,599.61	2,300.00	2,300.00	9.06	8.01	-139.95	-0.10	-75.00	312.58	295.52	17.06	18.323	
2,700.00	2,699.59	2,300.00	2,300.00	9.42	8.01	-142.55	-0.10	-75.00	409.76	392.34	17.42	23.526	
2,800.00	2,799.59	2,300.00	2,300.00	9.77	8.01	-99.42	-0.10	-75.00	507.82	490.03	17.78	28.559	
2,900.00	2,899.59	2,300.00	2,300.00	10.13	8.01	-99.42	-0.10	-75.00	606.46	588.32	18.14	33.434	
3,000.00	2,999.59	2,300.00	2,300.00	10.49	8.01	-99.42	-0.10	-75.00	705.49	686.99	18.50	38.140	
3,100.00	3,099.59	2,300.00	2,300.00	10.85	8.01	-99.42	-0.10	-75.00	804.75	785.90	18.86	42.680	
3,200.00	3,199.59	2,300.00	2,300.00	11.21	8.01	-99.42	-0.10	-75.00	904.18	884.97	19.21	47.060	
3,300.00	3,299.59	2,300.00	2,300.00	11.57	8.01	-99.42	-0.10	-75.00	1,003.73	984.15	19.57	51.284	
3,400.00	3,399.59	2,300.00	2,300.00	11.92	8.01	-99.42	-0.10	-75.00	1,103.35	1,083.42	19.93	55.361	
3,500.00	3,499.59	2,300.00	2,300.00	12.28	8.01	-99.42	-0.10	-75.00	1,203.04	1,182.75	20.29	59.298	
3,600.00	3,599.58	2,300.00	2,300.00	12.63	8.01	143.84	-0.10	-75.00	1,302.84	1,282.21	20.63	63.156	
3,700.00	3,699.46	2,300.00	2,300.00	12.97	8.01	89.64	-0.10	-75.00	1,402.79	1,381.81	20.98	66.862	
3,800.00	3,799.12	2,300.00	2,300.00	13.32	8.01	34.00	-0.10	-75.00	1,502.74	1,481.49	21.25	70.709	
3,900.00	3,898.43	2,300.00	2,300.00	13.67	8.01	18.10	-0.10	-75.00	1,602.59	1,581.09	21.50	74.542	
4,000.00	3,997.50	2,300.00	2,300.00	14.02	8.01	17.54	-0.10	-75.00	1,702.35	1,680.52	21.84	77.961	
4,100.00	4,096.57	2,300.00	2,300.00	14.37	8.01	17.54	-0.10	-75.00	1,802.14	1,779.96	22.18	81.247	
4,200.00	4,195.64	2,300.00	2,300.00	14.73	8.01	17.54	-0.10	-75.00	1,901.95	1,879.42	22.53	84.429	
4,300.00	4,294.70	2,300.00	2,300.00	15.09	8.01	17.54	-0.10	-75.00	2,001.78	1,978.90	22.87	87.510	
4,400.00	4,393.77	2,300.00	2,300.00	15.45	8.01	17.54	-0.10	-75.00	2,101.63	2,078.40	23.22	90.494	
4,500.00	4,492.84	2,300.00	2,300.00	15.81	8.01	17.54	-0.10	-75.00	2,201.49	2,177.91	23.57	93.387	
4,600.00	4,591.91	2,300.00	2,300.00	16.18	8.01	17.54	-0.10	-75.00	2,301.36	2,277.43	23.92	96.191	
4,700.00	4,690.98	2,300.00	2,300.00	16.55	8.01	17.54	-0.10	-75.00	2,401.24	2,376.96	24.28	98.910	
4,800.00	4,790.04	2,300.00	2,300.00	16.92	8.01	17.54	-0.10	-75.00	2,501.13	2,476.50	24.63	101.548	
4,900.00	4,889.11	2,300.00	2,300.00	17.29	8.01	17.54	-0.10	-75.00	2,601.03	2,576.05	24.98	104.108	

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 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 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 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 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
5,000.00	4,988.18	2,300.00	2,300.00	17.66	8.01	17.54	-0.10	-75.00	2,700.94	2,675.60	25.34	106.594	
5,100.00	5,087.25	2,300.00	2,300.00	18.04	8.01	17.54	-0.10	-75.00	2,800.85	2,775.16	25.69	109.008	
5,200.00	5,186.32	2,300.00	2,300.00	18.41	8.01	17.54	-0.10	-75.00	2,900.77	2,874.72	26.05	111.353	
5,300.00	5,285.39	2,300.00	2,300.00	18.79	8.01	17.54	-0.10	-75.00	3,000.70	2,974.29	26.41	113.633	
5,400.00	5,384.45	2,300.00	2,300.00	19.17	8.01	17.54	-0.10	-75.00	3,100.63	3,073.87	26.76	115.849	
5,500.00	5,483.52	2,300.00	2,300.00	19.55	8.01	17.54	-0.10	-75.00	3,200.56	3,173.44	27.12	118.004	
5,600.00	5,582.59	2,300.00	2,300.00	19.93	8.01	17.54	-0.10	-75.00	3,300.50	3,273.02	27.48	120.100	
5,700.00	5,681.66	2,300.00	2,300.00	20.31	8.01	17.54	-0.10	-75.00	3,400.45	3,372.60	27.84	122.140	
5,800.00	5,780.73	2,300.00	2,300.00	20.69	8.01	17.54	-0.10	-75.00	3,500.39	3,472.19	28.20	124.127	
5,900.00	5,879.79	2,300.00	2,300.00	21.07	8.01	17.54	-0.10	-75.00	3,600.34	3,571.78	28.56	126.061	
6,000.00	5,978.86	2,300.00	2,300.00	21.46	8.01	17.54	-0.10	-75.00	3,700.29	3,671.37	28.92	127.945	
6,100.00	6,077.93	2,300.00	2,300.00	21.84	8.01	17.54	-0.10	-75.00	3,800.24	3,770.96	29.28	129.780	
6,200.00	6,177.00	2,300.00	2,300.00	22.23	8.01	17.54	-0.10	-75.00	3,900.20	3,870.56	29.64	131.569	
6,300.00	6,276.07	2,300.00	2,300.00	22.61	8.01	17.54	-0.10	-75.00	4,000.16	3,970.15	30.01	133.314	
6,400.00	6,375.13	2,300.00	2,300.00	23.00	8.01	17.54	-0.10	-75.00	4,100.12	4,069.75	30.37	135.015	
6,500.00	6,474.20	2,300.00	2,300.00	23.39	8.01	17.54	-0.10	-75.00	4,200.08	4,169.35	30.73	136.675	
6,600.00	6,573.27	2,300.00	2,300.00	23.78	8.01	17.54	-0.10	-75.00	4,300.05	4,268.95	31.09	138.294	
6,700.00	6,672.34	2,300.00	2,300.00	24.17	8.01	17.54	-0.10	-75.00	4,400.01	4,368.55	31.46	139.875	
6,800.00	6,771.41	2,300.00	2,300.00	24.56	8.01	17.54	-0.10	-75.00	4,499.98	4,468.16	31.82	141.418	
6,900.00	6,870.47	2,300.00	2,300.00	24.95	8.01	17.54	-0.10	-75.00	4,599.95	4,567.76	32.18	142.925	
7,000.00	6,969.54	2,300.00	2,300.00	25.34	8.01	17.54	-0.10	-75.00	4,699.92	4,667.37	32.55	144.397	
7,100.00	7,068.61	2,300.00	2,300.00	25.73	8.01	17.54	-0.10	-75.00	4,799.89	4,766.98	32.91	145.835	
7,200.00	7,167.68	2,300.00	2,300.00	26.12	8.01	17.54	-0.10	-75.00	4,899.86	4,866.58	33.28	147.241	
7,300.00	7,266.75	2,300.00	2,300.00	26.51	8.01	17.54	-0.10	-75.00	4,999.83	4,966.19	33.64	148.616	
7,400.00	7,365.82	2,300.00	2,300.00	26.90	8.01	17.54	-0.10	-75.00	5,099.81	5,065.80	34.01	149.959	
7,500.00	7,464.88	2,300.00	2,300.00	27.30	8.01	17.54	-0.10	-75.00	5,199.78	5,165.41	34.37	151.273	
7,600.00	7,563.95	2,300.00	2,300.00	27.69	8.01	17.54	-0.10	-75.00	5,299.76	5,265.02	34.74	152.559	
7,700.00	7,663.02	2,300.00	2,300.00	28.08	8.01	17.54	-0.10	-75.00	5,399.74	5,364.63	35.10	153.817	
7,800.00	7,762.09	2,300.00	2,300.00	28.48	8.01	17.54	-0.10	-75.00	5,499.72	5,464.25	35.47	155.048	
7,900.00	7,861.16	2,300.00	2,300.00	28.87	8.01	17.54	-0.10	-75.00	5,599.70	5,563.86	35.84	156.253	
8,000.00	7,960.22	2,300.00	2,300.00	29.27	8.01	17.54	-0.10	-75.00	5,699.68	5,663.47	36.20	157.433	
8,100.00	8,059.29	2,300.00	2,300.00	29.66	8.01	17.54	-0.10	-75.00	5,799.66	5,763.09	36.57	158.589	
8,200.00	8,158.53	2,300.00	2,300.00	30.05	8.01	153.84	-0.10	-75.00	5,899.65	5,862.48	37.16	158.746	
8,300.00	8,258.13	2,300.00	2,300.00	30.43	8.01	172.95	-0.10	-75.00	5,999.60	5,962.27	37.33	160.710	
8,400.00	8,357.98	2,300.00	2,300.00	30.62	8.01	175.98	-0.10	-75.00	6,099.39	6,061.90	37.49	162.696	
8,500.00	8,457.96	2,300.00	2,300.00	30.63	8.01	177.20	-0.10	-75.00	6,198.92	6,161.48	37.44	165.569	
8,600.00	8,557.51	2,300.00	2,300.00	30.61	8.01	4.16	-0.10	-75.00	6,296.94	6,260.27	36.67	171.723	
8,700.00	8,654.16	2,300.00	2,300.00	30.55	8.01	2.60	-0.10	-75.00	6,390.32	6,355.43	34.88	183.186	
8,800.00	8,744.98	2,300.00	2,300.00	30.47	8.01	1.93	-0.10	-75.00	6,476.48	6,444.28	32.19	201.165	
8,900.00	8,827.19	2,300.00	2,300.00	30.38	8.01	1.56	-0.10	-75.00	6,553.14	6,524.39	28.74	227.987	
9,000.00	8,898.32	2,300.00	2,300.00	30.34	8.01	1.34	-0.10	-75.00	6,618.33	6,593.58	24.74	267.497	
9,100.00	8,956.18	2,300.00	2,300.00	30.42	8.01	1.21	-0.10	-75.00	6,670.43	6,649.92	20.52	325.132	
9,200.00	8,999.03	2,300.00	2,300.00	30.68	8.01	1.12	-0.10	-75.00	6,708.19	6,691.57	16.61	403.763	
9,300.00	9,025.57	2,300.00	2,300.00	31.20	8.01	1.08	-0.10	-75.00	6,730.70	6,716.73	13.97	481.968	
9,400.00	9,034.98	2,300.00	2,300.00	31.98	8.01	1.07	-0.10	-75.00	6,737.43	6,723.75	13.68	492.469	
9,500.00	9,035.00	2,300.00	2,300.00	32.99	8.01	1.07	-0.10	-75.00	6,736.24	6,722.25	13.99	481.571	
9,531.43	9,035.00	2,300.00	2,300.00	33.38	8.01	1.07	-0.10	-75.00	6,736.16	6,722.08	14.09	478.158	
9,600.00	9,035.00	2,300.00	2,300.00	34.21	8.01	1.07	-0.10	-75.00	6,736.51	6,722.21	14.31	470.912	
9,700.00	9,035.00	2,300.00	2,300.00	35.62	8.01	1.07	-0.10	-75.00	6,738.27	6,723.61	14.67	459.473	
9,800.00	9,035.00	2,300.00	2,300.00	37.20	8.01	1.07	-0.10	-75.00	6,741.52	6,726.45	15.06	447.518	

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 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 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 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 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
9,900.00	9,035.00	2,300.00	2,300.00	38.92	8.01	1.07	-0.10	-75.00	6,746.24	6,730.74	15.50	435.276	
10,000.00	9,035.00	2,300.00	2,300.00	40.77	8.01	1.07	-0.10	-75.00	6,752.44	6,736.48	15.97	422.944	
10,100.00	9,035.00	2,300.00	2,300.00	42.72	8.01	1.07	-0.10	-75.00	6,760.12	6,743.66	16.46	410.682	
10,200.00	9,035.00	2,300.00	2,300.00	44.78	8.01	1.07	-0.10	-75.00	6,769.26	6,752.28	16.98	398.615	
10,300.00	9,035.00	2,300.00	2,300.00	46.91	8.01	1.07	-0.10	-75.00	6,779.87	6,762.34	17.53	386.638	
10,400.00	9,035.00	2,300.00	2,300.00	49.12	8.01	1.07	-0.10	-75.00	6,791.93	6,773.84	18.09	375.421	
10,500.00	9,035.00	2,300.00	2,300.00	51.39	8.01	1.07	-0.10	-75.00	6,805.44	6,786.77	18.68	364.410	
10,600.00	9,035.00	2,300.00	2,300.00	53.72	8.01	1.07	-0.10	-75.00	6,820.39	6,801.12	19.28	353.837	
10,700.00	9,035.00	2,300.00	2,300.00	56.09	8.01	1.07	-0.10	-75.00	6,836.77	6,816.88	19.89	343.716	
10,800.00	9,035.00	2,300.00	2,300.00	58.51	8.01	1.07	-0.10	-75.00	6,854.57	6,834.06	20.52	334.055	
10,900.00	9,035.00	2,300.00	2,300.00	60.96	8.01	1.07	-0.10	-75.00	6,873.78	6,852.62	21.16	324.850	
11,000.00	9,035.00	2,300.00	2,300.00	63.45	8.01	1.07	-0.10	-75.00	6,894.39	6,872.58	21.81	316.092	
11,100.00	9,035.00	2,300.00	2,300.00	65.97	8.01	1.07	-0.10	-75.00	6,916.38	6,893.91	22.47	307.771	
11,200.00	9,035.00	2,300.00	2,300.00	68.51	8.01	1.07	-0.10	-75.00	6,939.74	6,916.60	23.14	299.871	
11,300.00	9,035.00	2,300.00	2,300.00	71.08	8.01	1.07	-0.10	-75.00	6,964.46	6,940.64	23.82	292.374	
11,400.00	9,035.00	2,300.00	2,300.00	73.66	8.01	1.07	-0.10	-75.00	6,990.53	6,966.02	24.51	285.262	
11,500.00	9,035.00	2,300.00	2,300.00	76.27	8.01	1.07	-0.10	-75.00	7,017.92	6,992.72	25.20	278.517	
11,600.00	9,035.00	2,300.00	2,300.00	78.89	8.01	1.07	-0.10	-75.00	7,046.62	7,020.73	25.90	272.120	
11,700.00	9,035.00	2,300.00	2,300.00	81.53	8.01	1.07	-0.10	-75.00	7,076.63	7,050.03	26.60	266.053	
11,800.00	9,035.00	2,300.00	2,300.00	84.18	8.01	1.07	-0.10	-75.00	7,107.91	7,080.60	27.31	260.298	
11,900.00	9,035.00	2,300.00	2,300.00	86.84	8.01	1.07	-0.10	-75.00	7,140.45	7,112.43	28.02	254.836	
12,000.00	9,035.00	2,300.00	2,300.00	89.52	8.01	1.07	-0.10	-75.00	7,174.24	7,145.51	28.74	249.653	
12,100.00	9,035.00	2,300.00	2,300.00	92.20	8.01	1.07	-0.10	-75.00	7,209.26	7,179.81	29.46	244.731	
12,200.00	9,035.00	2,300.00	2,300.00	94.90	8.01	1.07	-0.10	-75.00	7,245.49	7,215.31	30.18	240.056	
12,300.00	9,035.00	2,300.00	2,300.00	97.60	8.01	1.07	-0.10	-75.00	7,282.92	7,252.01	30.91	235.614	
12,400.00	9,035.00	2,300.00	2,300.00	100.31	8.01	1.07	-0.10	-75.00	7,321.52	7,289.88	31.64	231.391	
12,500.00	9,035.00	2,300.00	2,300.00	103.03	8.01	1.07	-0.10	-75.00	7,361.27	7,328.90	32.38	227.374	
12,600.00	9,035.00	2,300.00	2,300.00	105.76	8.01	1.07	-0.10	-75.00	7,402.17	7,369.05	33.11	223.552	
12,700.00	9,035.00	2,300.00	2,300.00	108.49	8.01	1.07	-0.10	-75.00	7,444.18	7,410.33	33.85	219.914	
12,800.00	9,035.00	2,300.00	2,300.00	111.22	8.01	1.07	-0.10	-75.00	7,487.29	7,452.70	34.59	216.448	
12,900.00	9,035.00	2,300.00	2,300.00	113.97	8.01	1.07	-0.10	-75.00	7,531.48	7,496.15	35.33	213.146	
13,000.00	9,035.00	2,300.00	2,300.00	116.72	8.01	1.07	-0.10	-75.00	7,576.73	7,540.65	36.08	209.997	
13,100.00	9,035.00	2,300.00	2,300.00	119.47	8.01	1.07	-0.10	-75.00	7,623.03	7,586.21	36.83	206.994	
13,200.00	9,035.00	2,300.00	2,300.00	122.23	8.01	1.07	-0.10	-75.00	7,670.35	7,632.78	37.58	204.129	
13,300.00	9,035.00	2,300.00	2,300.00	124.99	8.01	1.07	-0.10	-75.00	7,718.68	7,680.36	38.33	201.393	
13,400.00	9,035.00	2,300.00	2,300.00	127.75	8.01	1.07	-0.10	-75.00	7,768.00	7,728.92	39.08	198.779	
13,500.00	9,035.00	2,300.00	2,300.00	130.52	8.01	1.07	-0.10	-75.00	7,818.28	7,778.45	39.83	196.282	
13,600.00	9,035.00	2,300.00	2,300.00	133.29	8.01	1.07	-0.10	-75.00	7,869.51	7,828.92	40.59	193.894	
13,700.00	9,035.00	2,300.00	2,300.00	136.07	8.01	1.07	-0.10	-75.00	7,921.67	7,880.33	41.34	191.610	
13,800.00	9,035.00	2,300.00	2,300.00	138.85	8.01	1.07	-0.10	-75.00	7,974.75	7,932.65	42.10	189.424	
13,900.00	9,035.00	2,300.00	2,300.00	141.63	8.01	1.07	-0.10	-75.00	8,028.72	7,985.86	42.86	187.332	
14,000.00	9,035.00	2,300.00	2,300.00	144.41	8.01	1.07	-0.10	-75.00	8,083.57	8,039.95	43.62	185.327	
14,077.15	9,035.00	2,300.00	2,300.00	146.56	8.01	1.07	-0.10	-75.00	8,126.47	8,082.27	44.20	183.839	

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 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 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 - 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 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	11.96	865.71	183.44	884.93				
100.00	100.00	93.50	93.50	0.12	0.13	11.99	865.99	183.86	885.32	885.08	0.24	3,688.940	
200.00	200.00	183.33	183.32	0.48	0.43	12.03	867.03	184.82	886.68	885.77	0.91	978.564	
300.00	300.00	268.22	268.16	0.84	0.74	12.10	869.09	186.26	889.41	887.84	1.57	566.348	
400.00	400.00	354.23	354.07	1.20	1.05	12.22	872.44	188.96	893.88	891.64	2.24	398.818	
500.00	500.00	445.26	444.91	1.55	1.26	12.39	876.94	192.71	899.58	896.78	2.80	321.378	
600.00	600.00	561.26	560.68	1.91	1.41	12.57	882.82	196.92	905.39	902.07	3.32	272.395	
700.00	700.00	706.40	705.77	2.27	1.67	12.64	885.15	198.44	907.14	903.20	3.94	230.448	
800.00	800.00	812.38	811.75	2.63	1.92	12.64	884.19	198.34	906.23	901.68	4.55	199.308	
900.00	900.00	917.30	916.65	2.99	2.19	12.67	882.49	198.46	904.68	899.50	5.17	174.845	
1,000.00	1,000.00	1,020.33	1,019.67	3.35	2.49	12.72	880.37	198.73	902.72	896.89	5.83	154.813	
1,100.00	1,100.00	1,120.62	1,119.92	3.70	2.79	12.78	877.99	199.20	900.52	894.02	6.49	138.651	
1,200.00	1,200.00	1,218.80	1,218.07	4.06	3.10	12.88	875.69	200.25	898.46	891.30	7.16	125.416	
1,300.00	1,300.00	1,315.49	1,314.73	4.42	3.42	12.99	873.61	201.53	896.66	888.83	7.84	114.422	
1,400.00	1,400.00	1,411.56	1,410.79	4.78	3.73	13.04	872.16	201.97	895.30	886.79	8.51	105.191	
1,500.00	1,500.00	1,508.88	1,508.10	5.14	4.06	13.07	871.10	202.27	894.31	885.12	9.20	97.259	
1,600.00	1,600.00	1,606.54	1,605.74	5.50	4.39	13.21	869.93	204.20	893.59	883.71	9.88	90.427	
1,700.00	1,700.00	1,703.88	1,703.04	5.86	4.71	13.36	868.97	206.43	893.16	882.59	10.57	84.538	
1,800.00	1,800.00	1,803.00	1,802.16	6.21	5.04	13.39	868.76	206.76	893.02	881.77	11.25	79.353	
1,900.00	1,900.00	1,909.10	1,908.26	6.57	5.40	13.35	868.46	206.05	892.60	880.63	11.97	74.572	
2,000.00	2,000.00	2,011.36	2,010.51	6.93	5.75	13.32	867.32	205.37	891.36	878.69	12.67	70.335	
2,100.00	2,100.00	2,100.41	2,099.55	7.29	6.05	-31.76	867.29	204.18	890.91	877.58	13.33	66.812	
2,200.00	2,199.99	2,214.50	2,213.62	7.64	6.43	-31.95	867.62	202.22	889.62	875.55	14.07	63.230	
2,300.00	2,299.93	2,329.70	2,328.73	8.00	6.83	-32.28	864.93	198.81	883.86	869.04	14.81	59.666	
2,400.00	2,399.82	2,427.15	2,426.10	8.35	7.17	-32.65	862.60	195.58	876.70	861.20	15.50	56.563	
2,500.00	2,499.68	2,527.08	2,525.96	8.71	7.51	-32.99	860.32	192.31	869.47	853.27	16.20	53.658	
2,600.00	2,599.61	2,627.25	2,626.04	9.06	7.86	-33.28	857.98	188.93	863.34	846.42	16.92	51.039	
2,700.00	2,699.59	2,726.07	2,724.78	9.42	8.21	-33.52	855.69	185.60	858.71	841.09	17.62	48.735	
2,800.00	2,799.59	2,824.76	2,823.38	9.77	8.56	11.28	853.58	182.08	855.61	837.28	18.33	46.687	
2,900.00	2,899.59	2,916.62	2,915.20	10.13	8.88	11.15	851.89	179.86	853.34	834.33	19.01	44.893	
3,000.00	2,999.59	3,017.55	3,016.11	10.49	9.24	11.14	850.18	179.27	851.56	831.84	19.72	43.176	
3,100.00	3,099.59	3,116.88	3,115.42	10.85	9.59	11.14	848.38	178.94	849.72	829.29	20.43	41.586	
3,200.00	3,199.59	3,219.07	3,217.59	11.21	9.95	11.13	846.48	178.41	847.79	826.64	21.15	40.078	
3,300.00	3,299.59	3,321.05	3,319.55	11.57	10.32	11.10	844.33	177.60	845.57	823.69	21.87	38.657	
3,400.00	3,399.59	3,419.02	3,417.49	11.92	10.66	11.17	842.01	176.17	843.36	820.78	22.58	37.353	
3,500.00	3,499.59	3,516.00	3,514.45	12.28	11.00	11.23	840.07	178.70	841.50	818.22	23.28	36.149	
3,600.00	3,599.58	3,615.14	3,613.57	12.63	11.36	-91.59	838.41	178.76	839.91	815.94	23.97	35.043	
3,700.00	3,699.46	3,715.49	3,713.91	12.97	11.71	-91.91	836.70	178.92	838.41	813.74	24.66	33.992	
3,800.00	3,799.12	3,815.04	3,813.45	13.32	12.07	-92.46	834.98	179.10	837.05	811.69	25.36	33.005	
3,900.00	3,898.43	3,914.55	3,912.93	13.67	12.42	-93.25	833.30	179.16	835.98	809.91	26.06	32.077	
4,000.00	3,997.50	4,013.47	4,011.84	14.02	12.77	-94.15	831.59	179.25	835.15	808.39	26.76	31.205	
4,100.00	4,096.57	4,113.01	4,111.37	14.37	13.13	-95.08	829.98	178.93	834.60	807.12	27.47	30.381	
4,200.00	4,195.64	4,211.23	4,209.58	14.73	13.48	-96.02	828.35	178.36	834.19	806.02	28.18	29.606	
4,243.85	4,239.08	4,253.97	4,252.31	14.89	13.63	-96.43	827.72	178.05	834.16	805.67	28.49	29.283 CC	
4,300.00	4,294.70	4,310.03	4,308.36	15.09	13.83	-96.98	826.89	177.66	834.18	805.29	28.89	28.877	
4,400.00	4,393.77	4,407.51	4,405.83	15.45	14.18	-97.91	825.45	177.07	834.43	804.83	29.59	28.195	
4,500.00	4,492.84	4,505.98	4,504.29	15.81	14.53	-98.86	824.20	176.49	835.10	804.79	30.31	27.554 ES	
4,600.00	4,591.91	4,603.26	4,601.56	16.18	14.88	-99.80	823.04	175.77	836.09	805.07	31.02	26.955	
4,700.00	4,690.98	4,700.78	4,699.07	16.55	15.23	-100.74	822.10	175.08	837.54	805.81	31.73	26.395	
4,800.00	4,790.04	4,799.85	4,798.14	16.92	15.58	-101.69	821.24	174.27	839.31	806.86	32.45	25.865	
4,900.00	4,889.11	4,897.92	4,896.20	17.29	15.93	-102.64	820.41	173.48	841.35	808.18	33.17	25.367	

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 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 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 - 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 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
5,000.00	4,988.18	4,995.68	4,993.95	17.66	16.27	-103.58	819.72	172.64	843.76	809.87	33.88	24.902	
5,100.00	5,087.25	5,097.73	5,096.00	18.04	16.64	-104.54	818.88	171.94	846.29	811.67	34.62	24.448	
5,200.00	5,186.32	5,196.15	5,194.41	18.41	16.99	-105.46	817.93	171.33	848.89	813.56	35.34	24.022	
5,300.00	5,285.39	5,294.09	5,292.35	18.79	17.34	-106.36	817.11	170.83	851.84	815.78	36.06	23.624	
5,400.00	5,384.45	5,392.82	5,391.07	19.17	17.69	-107.27	816.30	170.23	855.04	818.26	36.78	23.246	
5,500.00	5,483.52	5,488.62	5,486.86	19.55	18.03	-108.14	815.74	169.59	858.69	821.19	37.49	22.902	
5,600.00	5,582.59	5,584.16	5,582.41	19.93	18.37	-109.01	815.56	168.98	862.94	824.74	38.20	22.588	
5,700.00	5,681.66	5,681.70	5,679.94	20.31	18.71	-109.88	815.71	168.35	867.74	828.83	38.91	22.299	
5,800.00	5,780.73	5,786.03	5,784.26	20.69	19.07	-110.84	815.58	167.10	872.56	832.91	39.65	22.006	
5,900.00	5,879.79	5,891.98	5,890.20	21.07	19.45	-111.82	814.44	165.67	876.69	836.29	40.40	21.700	
6,000.00	5,978.86	6,002.31	6,000.50	21.46	19.84	-112.82	812.54	164.59	880.38	839.21	41.17	21.386	
6,100.00	6,077.93	6,096.46	6,094.61	21.84	20.18	-113.68	809.96	163.65	883.29	841.42	41.88	21.093	
6,200.00	6,177.00	6,186.15	6,184.30	22.23	20.50	-114.47	808.70	162.83	887.68	845.11	42.57	20.852	
6,300.00	6,276.07	6,280.26	6,278.40	22.61	20.84	-115.26	808.15	162.26	893.00	849.72	43.28	20.634	
6,400.00	6,375.13	6,379.20	6,377.34	23.00	21.19	-116.08	807.89	161.65	898.83	854.83	44.00	20.427	
6,500.00	6,474.20	6,479.59	6,477.73	23.39	21.54	-116.89	807.51	161.28	904.67	859.94	44.73	20.226	
6,600.00	6,573.27	6,584.72	6,582.85	23.78	21.91	-117.69	806.90	161.43	910.36	864.89	45.47	20.021	
6,700.00	6,672.34	6,685.42	6,683.54	24.17	22.27	-118.45	805.80	161.72	915.68	869.49	46.20	19.822	
6,800.00	6,771.41	6,780.67	6,778.79	24.56	22.60	-119.12	805.11	162.68	921.31	874.41	46.90	19.645	
6,900.00	6,870.47	6,876.71	6,874.82	24.95	22.92	-119.75	804.96	164.07	927.47	879.87	47.60	19.486	
7,000.00	6,969.54	6,974.13	6,972.22	25.34	23.25	-120.34	805.21	165.89	934.02	885.72	48.30	19.339	
7,100.00	7,068.61	7,072.34	7,070.41	25.73	23.58	-120.94	805.61	167.69	940.82	891.82	49.00	19.200	
7,200.00	7,167.68	7,171.15	7,169.21	26.12	23.91	-121.54	806.00	169.30	947.79	898.09	49.71	19.068	
7,300.00	7,266.75	7,265.76	7,263.81	26.51	24.22	-122.13	806.49	170.32	955.15	904.76	50.39	18.953	
7,400.00	7,365.82	7,360.81	7,358.86	26.90	24.54	-122.76	807.14	170.53	963.08	911.99	51.08	18.853	
7,500.00	7,464.88	7,456.13	7,454.17	27.30	24.86	-123.42	807.95	170.04	971.54	919.76	51.78	18.764	
7,600.00	7,563.95	7,554.02	7,552.06	27.69	25.20	-124.11	808.79	168.93	980.38	927.90	52.48	18.681	
7,700.00	7,663.02	7,650.23	7,648.25	28.08	25.53	-124.78	809.67	167.84	989.41	936.23	53.18	18.605	
7,800.00	7,762.09	7,736.63	7,734.63	28.48	25.82	-125.34	811.57	167.06	999.64	945.79	53.84	18.565	
7,900.00	7,861.16	7,862.30	7,860.27	28.87	26.24	-126.03	813.63	168.15	1,008.73	954.09	54.63	18.463	
8,000.00	7,960.22	7,965.78	7,963.69	29.27	26.59	-126.50	814.80	171.15	1,016.69	961.33	55.36	18.367	
8,100.00	8,059.29	8,071.87	8,069.74	29.66	26.95	-126.98	815.55	174.18	1,024.36	968.27	56.09	18.264	
8,200.00	8,158.53	8,176.16	8,174.01	30.05	27.31	-127.54	815.03	176.28	1,030.55	973.69	56.86	18.125	
8,300.00	8,258.13	8,275.09	8,272.92	30.43	27.65	-127.92	814.24	177.98	1,034.53	976.93	57.59	17.962	
8,400.00	8,357.98	8,370.75	8,368.57	30.62	27.98	-128.12	813.62	179.34	1,036.64	978.53	58.12	17.837	
8,500.00	8,457.96	8,461.76	8,459.58	30.63	28.30	-128.18	813.36	180.02	1,037.24	978.82	58.42	17.754	
8,600.00	8,557.51	8,554.64	8,552.46	30.61	28.61	65.42	813.76	180.34	1,034.09	975.56	58.53	17.667	
8,700.00	8,654.16	8,647.87	8,645.68	30.55	28.93	67.54	814.63	180.62	1,024.49	966.00	58.49	17.516	
8,800.00	8,744.98	8,739.96	8,737.77	30.47	29.24	71.04	815.61	180.89	1,009.41	950.87	58.54	17.243	
8,900.00	8,827.19	8,823.47	8,821.27	30.38	29.52	75.52	816.32	181.16	990.79	931.92	58.86	16.832	
9,000.00	8,898.32	8,894.87	8,892.67	30.34	29.76	80.35	816.90	181.52	971.59	912.16	59.43	16.349	
9,100.00	8,956.18	8,952.30	8,950.09	30.42	29.96	84.81	817.36	181.88	955.17	895.11	60.07	15.902	
9,200.00	8,999.03	8,993.18	8,990.97	30.68	30.09	88.09	817.74	182.23	944.83	884.16	60.67	15.572	
9,268.15	9,018.95	9,014.42	9,012.20	31.03	30.17	89.55	817.93	182.67	942.61	881.46	61.15	15.415	
9,300.00	9,025.57	9,020.59	9,018.37	31.20	30.19	89.86	817.98	182.86	943.12	881.78	61.35	15.374	
9,400.00	9,034.98	9,026.58	9,024.36	31.98	30.21	89.38	818.02	183.08	951.55	889.40	62.15	15.310 SF	
9,500.00	9,035.00	9,023.01	9,020.79	32.99	30.20	89.11	817.99	182.95	970.20	907.05	63.15	15.364	
9,600.00	9,035.00	9,019.92	9,017.70	34.21	30.19	88.92	817.97	182.84	998.55	934.19	64.36	15.516	
9,700.00	9,035.00	9,017.22	9,015.01	35.62	30.18	88.75	817.95	182.75	1,035.80	970.05	65.75	15.753	
9,800.00	9,035.00	9,014.85	9,012.64	37.20	30.17	88.61	817.93	182.68	1,081.05	1,013.73	67.31	16.060	

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 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 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 - 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 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
9,900.00	9,035.00	9,012.75	9,010.53	38.92	30.16	88.48	817.92	182.62	1,133.32	1,064.30	69.02	16.420	
10,000.00	9,035.00	9,010.87	9,008.66	40.77	30.16	88.37	817.90	182.57	1,191.71	1,120.85	70.86	16.818	
10,100.00	9,035.00	9,009.19	9,006.97	42.72	30.15	88.27	817.89	182.52	1,255.36	1,182.55	72.81	17.243	
10,200.00	9,035.00	9,007.66	9,005.45	44.78	30.14	88.17	817.87	182.49	1,323.50	1,248.65	74.85	17.682	
10,300.00	9,035.00	9,006.28	9,004.07	46.91	30.14	88.09	817.86	182.46	1,395.49	1,318.51	76.98	18.129	
10,400.00	9,035.00	9,005.02	9,002.81	49.12	30.14	88.01	817.85	182.43	1,470.75	1,391.57	79.18	18.576	
10,500.00	9,035.00	9,003.87	9,001.66	51.39	30.13	87.94	817.84	182.40	1,548.81	1,467.37	81.44	19.018	
10,600.00	9,035.00	9,002.81	9,000.60	53.72	30.13	87.88	817.83	182.38	1,629.27	1,545.51	83.76	19.452	
10,700.00	9,035.00	8,990.00	8,987.79	56.09	30.08	87.10	817.71	182.19	1,711.88	1,625.84	86.04	19.897	
10,800.00	9,035.00	8,990.00	8,987.79	58.51	30.08	87.10	817.71	182.19	1,796.16	1,707.71	88.45	20.307	
10,900.00	9,035.00	8,990.00	8,987.79	60.96	30.08	87.10	817.71	182.19	1,881.98	1,791.08	90.90	20.703	
11,000.00	9,035.00	8,990.00	8,987.79	63.45	30.08	87.10	817.71	182.19	1,969.15	1,875.76	93.39	21.086	
11,100.00	9,035.00	8,990.00	8,987.79	65.97	30.08	87.10	817.71	182.19	2,057.48	1,961.57	95.90	21.454	
11,200.00	9,035.00	8,990.00	8,987.79	68.51	30.08	87.10	817.71	182.19	2,146.83	2,048.39	98.44	21.808	
11,300.00	9,035.00	8,990.00	8,987.79	71.08	30.08	87.10	817.71	182.19	2,237.08	2,136.08	101.01	22.148	
11,400.00	9,035.00	8,990.00	8,987.79	73.66	30.08	87.10	817.71	182.19	2,328.14	2,224.55	103.59	22.475	
11,500.00	9,035.00	8,990.00	8,987.79	76.27	30.08	87.10	817.71	182.19	2,419.89	2,313.70	106.19	22.788	
11,600.00	9,035.00	8,990.00	8,987.79	78.89	30.08	87.10	817.71	182.19	2,512.28	2,403.47	108.81	23.089	
11,700.00	9,035.00	8,990.00	8,987.79	81.53	30.08	87.10	817.71	182.19	2,605.23	2,493.79	111.44	23.377	
11,800.00	9,035.00	8,990.00	8,987.79	84.18	30.08	87.10	817.71	182.19	2,698.69	2,584.59	114.09	23.653	
11,900.00	9,035.00	8,990.00	8,987.79	86.84	30.08	87.10	817.71	182.19	2,792.59	2,675.84	116.75	23.919	
12,000.00	9,035.00	8,990.00	8,987.79	89.52	30.08	87.10	817.71	182.19	2,886.91	2,767.48	119.43	24.173	
12,100.00	9,035.00	8,990.00	8,987.79	92.20	30.08	87.10	817.71	182.19	2,981.60	2,859.49	122.11	24.418	
12,200.00	9,035.00	8,990.00	8,987.79	94.90	30.08	87.10	817.71	182.19	3,076.62	2,951.82	124.80	24.652	
12,300.00	9,035.00	8,990.00	8,987.79	97.60	30.08	87.10	817.71	182.19	3,171.95	3,044.45	127.50	24.878	
12,400.00	9,035.00	8,990.00	8,987.79	100.31	30.08	87.10	817.71	182.19	3,267.56	3,137.35	130.21	25.095	
12,500.00	9,035.00	8,990.00	8,987.79	103.03	30.08	87.10	817.71	182.19	3,363.42	3,230.50	132.93	25.303	
12,600.00	9,035.00	8,990.00	8,987.79	105.76	30.08	87.10	817.71	182.19	3,459.52	3,323.87	135.65	25.504	
12,700.00	9,035.00	8,990.00	8,987.79	108.49	30.08	87.10	817.71	182.19	3,555.83	3,417.46	138.38	25.697	
12,800.00	9,035.00	8,990.00	8,987.79	111.22	30.08	87.10	817.71	182.19	3,652.34	3,511.23	141.11	25.883	
12,900.00	9,035.00	8,990.00	8,987.79	113.97	30.08	87.10	817.71	182.19	3,749.04	3,605.19	143.85	26.062	
13,000.00	9,035.00	8,990.00	8,987.79	116.72	30.08	87.10	817.71	182.19	3,845.90	3,699.30	146.60	26.234	
13,100.00	9,035.00	8,990.00	8,987.79	119.47	30.08	87.10	817.71	182.19	3,942.92	3,793.57	149.35	26.401	
13,200.00	9,035.00	8,990.00	8,987.79	122.23	30.08	87.10	817.71	182.19	4,040.09	3,887.98	152.10	26.562	
13,300.00	9,035.00	8,990.00	8,987.79	124.99	30.08	87.10	817.71	182.19	4,137.39	3,982.53	154.86	26.717	
13,400.00	9,035.00	8,990.00	8,987.79	127.75	30.08	87.10	817.71	182.19	4,234.81	4,077.19	157.62	26.867	
13,500.00	9,035.00	8,990.00	8,987.79	130.52	30.08	87.10	817.71	182.19	4,332.36	4,171.97	160.39	27.012	
13,600.00	9,035.00	8,990.00	8,987.79	133.29	30.08	87.10	817.71	182.19	4,430.01	4,266.85	163.16	27.152	
13,700.00	9,035.00	8,990.00	8,987.79	136.07	30.08	87.10	817.71	182.19	4,527.77	4,361.84	165.93	27.287	
13,800.00	9,035.00	8,990.00	8,987.79	138.85	30.08	87.10	817.71	182.19	4,625.62	4,456.91	168.71	27.418	
13,900.00	9,035.00	8,990.00	8,987.79	141.63	30.08	87.10	817.71	182.19	4,723.56	4,552.07	171.48	27.545	
14,000.00	9,035.00	8,990.00	8,987.79	144.41	30.08	87.10	817.71	182.19	4,821.58	4,647.32	174.26	27.668	
14,077.15	9,035.00	8,983.85	8,981.64	146.56	30.06	86.73	817.65	182.13	4,897.26	4,720.93	176.33	27.773	

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 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 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 - 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 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	1.98	1.98	0.00	0.00	166.17	-453.90	111.74	467.45				
100.00	100.00	102.70	102.70	0.12	0.21	166.18	-453.97	111.69	467.51	467.18	0.33	1,432.625	
200.00	200.00	212.83	212.82	0.48	0.60	166.20	-452.86	111.19	466.44	465.36	1.07	434.297	
300.00	300.00	328.13	328.02	0.84	1.01	166.15	-448.16	110.47	462.30	460.46	1.84	250.605	
400.00	400.00	429.92	429.60	1.20	1.38	166.01	-441.77	110.06	456.11	453.54	2.57	177.417	
500.00	500.00	529.78	529.27	1.55	1.74	165.82	-435.54	110.02	450.04	446.75	3.29	136.750	
600.00	600.00	627.80	627.11	1.91	2.10	165.63	-429.58	110.05	444.17	440.16	4.01	110.869	
700.00	700.00	724.39	723.56	2.27	2.45	165.44	-424.29	110.17	438.89	434.17	4.72	93.067	
800.00	800.00	821.19	820.24	2.63	2.81	165.28	-419.69	110.29	434.32	428.90	5.43	80.057	
900.00	900.00	917.49	916.46	2.99	3.15	165.10	-415.82	110.65	430.54	424.41	6.13	70.219	
1,000.00	1,000.00	1,014.19	1,013.12	3.35	3.50	164.93	-412.76	111.15	427.61	420.77	6.84	62.538	
1,100.00	1,100.00	1,111.95	1,110.85	3.70	3.85	164.82	-410.27	111.33	425.20	417.66	7.55	56.346	
1,200.00	1,200.00	1,207.46	1,206.33	4.06	4.19	164.69	-408.56	111.88	423.63	415.38	8.24	51.386	
1,280.89	1,280.89	1,284.03	1,282.89	4.35	4.46	164.49	-407.79	113.18	423.20	414.40	8.80	48.080	
1,300.00	1,300.00	1,301.88	1,300.73	4.42	4.52	164.43	-407.69	113.62	423.23	414.30	8.93	47.384	
1,400.00	1,400.00	1,396.75	1,395.55	4.78	4.84	164.01	-407.81	116.85	424.27	414.65	9.62	44.119	
1,500.00	1,500.00	1,494.88	1,493.59	5.14	5.18	163.48	-408.30	121.06	425.95	415.64	10.31	41.306	
1,600.00	1,600.00	1,591.24	1,589.78	5.50	5.51	162.80	-409.04	126.63	428.37	417.36	11.00	38.932	
1,700.00	1,700.00	1,687.90	1,686.26	5.86	5.84	162.13	-410.53	132.37	431.63	419.94	11.69	36.910	
1,800.00	1,800.00	1,787.95	1,786.12	6.21	6.18	161.51	-412.75	138.01	435.50	423.10	12.40	35.133	
1,900.00	1,900.00	1,892.07	1,890.15	6.57	6.54	161.10	-414.81	142.02	438.61	425.49	13.11	33.453	
2,000.00	2,000.00	1,997.69	1,995.65	6.93	6.91	160.56	-415.59	146.64	440.74	426.90	13.84	31.848	
2,100.00	2,100.00	2,120.93	2,118.69	7.29	7.36	114.71	-412.19	152.56	439.88	425.24	14.64	30.041	
2,200.00	2,199.99	2,236.42	2,233.95	7.64	7.77	114.58	-405.14	153.05	434.92	419.51	15.41	28.224	
2,300.00	2,299.93	2,344.56	2,341.67	8.00	8.15	115.20	-396.66	148.82	427.52	411.38	16.14	26.486	
2,400.00	2,399.82	2,443.78	2,440.43	8.35	8.51	116.14	-388.74	143.64	420.35	403.51	16.84	24.962	
2,500.00	2,499.68	2,541.77	2,538.00	8.71	8.86	117.07	-381.13	138.53	413.60	396.07	17.54	23.586	
2,600.00	2,599.61	2,644.50	2,640.30	9.06	9.23	117.78	-373.08	133.79	406.46	388.21	18.25	22.268	
2,700.00	2,699.59	2,746.23	2,741.51	9.42	9.60	117.86	-363.17	131.46	397.41	378.44	18.97	20.949	
2,800.00	2,799.59	2,842.99	2,837.74	9.77	9.96	162.33	-353.10	131.99	387.80	368.09	19.72	19.670	
2,900.00	2,899.59	2,942.55	2,936.74	10.13	10.34	161.52	-342.75	134.33	378.64	358.20	20.44	18.523	
3,000.00	2,999.59	3,041.35	3,035.00	10.49	10.71	160.80	-332.63	135.79	369.41	348.25	21.16	17.456	
3,100.00	3,099.59	3,141.53	3,134.67	10.85	11.09	160.09	-322.58	136.98	360.35	338.46	21.89	16.462	
3,200.00	3,199.59	3,239.63	3,232.29	11.21	11.46	159.44	-312.90	137.73	351.35	328.74	22.61	15.540	
3,300.00	3,299.59	3,338.77	3,330.99	11.57	11.83	158.82	-303.57	138.17	342.71	319.37	23.33	14.687	
3,400.00	3,399.59	3,436.20	3,428.00	11.92	12.20	158.11	-294.57	139.10	334.46	310.41	24.05	13.907	
3,500.00	3,499.59	3,536.24	3,527.59	12.28	12.58	157.18	-285.27	141.05	326.58	301.81	24.77	13.182	
3,600.00	3,599.58	3,642.05	3,632.84	12.63	12.98	53.87	-274.45	141.92	316.75	291.32	25.43	12.454	
3,700.00	3,699.46	3,741.07	3,731.28	12.97	13.36	53.99	-263.86	141.99	304.20	278.09	26.11	11.651	
3,800.00	3,799.12	3,840.54	3,830.17	13.32	13.74	54.71	-253.07	141.86	289.42	262.64	26.78	10.809	
3,900.00	3,898.43	3,938.21	3,927.29	13.67	14.11	56.22	-242.84	141.40	272.91	245.49	27.43	9.951	
4,000.00	3,997.50	4,036.31	4,024.81	14.02	14.49	57.78	-232.17	141.87	255.48	227.35	28.13	9.083	
4,100.00	4,096.57	4,132.74	4,120.73	14.37	14.86	59.55	-222.17	142.31	238.71	209.88	28.83	8.280	
4,200.00	4,195.64	4,230.71	4,218.25	14.73	15.23	61.71	-212.82	142.59	222.93	193.39	29.54	7.546	
4,300.00	4,294.70	4,330.18	4,317.16	15.09	15.62	63.93	-202.45	143.81	206.90	176.64	30.26	6.837	
4,400.00	4,393.77	4,427.44	4,413.90	15.45	15.99	66.48	-192.45	144.96	191.35	160.37	30.98	6.177	
4,500.00	4,492.84	4,524.41	4,510.45	15.81	16.36	69.81	-183.44	145.11	177.07	145.37	31.70	5.586	
4,600.00	4,591.91	4,623.54	4,609.19	16.18	16.73	73.92	-174.68	144.92	163.93	131.49	32.43	5.054	
4,700.00	4,690.98	4,722.30	4,707.48	16.55	17.11	78.26	-165.02	145.90	150.82	117.64	33.17	4.546	
4,800.00	4,790.04	4,819.47	4,804.23	16.92	17.48	83.19	-156.10	147.04	139.29	105.37	33.92	4.107	
4,900.00	4,889.11	4,917.97	4,902.37	17.29	17.85	88.89	-147.80	148.35	129.72	95.05	34.67	3.742	

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 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 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 - 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 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
5,000.00	4,988.18	5,016.64	5,000.66	17.66	18.23	94.88	-139.51	150.83	121.32	85.89	35.43	3.424	
5,100.00	5,087.25	5,115.03	5,098.69	18.04	18.60	101.76	-131.41	152.96	114.74	78.55	36.19	3.170	
5,200.00	5,186.32	5,212.62	5,195.95	18.41	18.97	109.80	-123.43	153.84	110.76	73.80	36.96	2.997	
5,267.29	5,252.98	5,278.23	5,261.38	18.66	19.21	115.32	-118.64	154.27	109.99	72.52	37.47	2.936	CC
5,300.00	5,285.39	5,310.16	5,293.24	18.79	19.33	117.96	-116.51	154.47	110.16	72.45	37.71	2.921	ES, SF
5,400.00	5,384.45	5,407.88	5,390.79	19.17	19.69	125.68	-110.73	154.95	112.81	74.35	38.45	2.933	
5,500.00	5,483.52	5,508.51	5,491.23	19.55	20.06	133.13	-104.68	155.61	117.28	78.08	39.19	2.992	
5,600.00	5,582.59	5,608.00	5,590.36	19.93	20.44	140.82	-96.30	156.40	122.34	82.42	39.92	3.065	
5,700.00	5,681.66	5,706.99	5,688.71	20.31	20.82	149.07	-85.04	156.51	129.12	88.48	40.64	3.177	
5,800.00	5,780.73	5,805.44	5,786.32	20.69	21.21	157.00	-72.28	156.53	138.09	96.74	41.35	3.339	
5,900.00	5,879.79	5,906.62	5,886.68	21.07	21.61	163.86	-59.54	158.08	147.95	105.88	42.07	3.517	
6,000.00	5,978.86	6,005.51	5,984.92	21.46	22.00	169.17	-48.51	160.95	158.18	115.40	42.78	3.698	
6,100.00	6,077.93	6,102.17	6,081.04	21.84	22.38	173.40	-38.60	163.05	170.21	126.73	43.48	3.914	
6,200.00	6,177.00	6,201.29	6,179.69	22.23	22.75	176.92	-29.12	164.95	183.22	139.03	44.19	4.146	
6,300.00	6,276.07	6,299.01	6,277.25	22.61	23.12	178.72	-23.85	166.02	196.74	151.84	44.90	4.382	
6,400.00	6,375.13	6,394.87	6,372.72	23.00	23.48	-178.90	-15.37	166.59	211.72	166.11	45.60	4.642	
6,500.00	6,474.20	6,493.29	6,470.60	23.39	23.86	-176.41	-5.17	166.97	227.63	181.31	46.32	4.914	
6,600.00	6,573.27	6,592.14	6,568.99	23.78	24.24	-174.40	4.39	167.40	243.65	196.60	47.05	5.179	
6,700.00	6,672.34	6,692.87	6,669.32	24.17	24.62	-172.77	13.36	167.79	259.72	211.95	47.77	5.437	
6,800.00	6,771.41	6,793.43	6,769.56	24.56	25.00	-171.46	21.17	169.40	274.43	225.92	48.50	5.658	
6,900.00	6,870.47	6,888.69	6,864.52	24.95	25.36	-170.39	28.62	170.27	289.91	240.70	49.21	5.891	
7,000.00	6,969.54	6,985.53	6,960.84	25.34	25.74	-169.00	38.60	171.03	306.58	256.64	49.94	6.139	
7,100.00	7,068.61	7,084.20	7,058.71	25.73	26.13	-167.30	50.97	172.80	323.45	272.77	50.67	6.383	
7,200.00	7,167.68	7,183.56	7,157.34	26.12	26.52	-165.83	62.90	174.57	340.35	288.94	51.41	6.620	
7,300.00	7,266.75	7,281.69	7,254.66	26.51	26.91	-164.38	75.33	176.95	357.19	305.04	52.15	6.849	
7,400.00	7,365.82	7,377.19	7,349.52	26.90	27.29	-163.35	86.17	178.19	374.57	321.69	52.88	7.083	
7,500.00	7,464.88	7,472.35	7,444.04	27.30	27.66	-162.44	97.17	178.55	392.93	339.33	53.60	7.331	
7,600.00	7,563.95	7,563.77	7,535.00	27.69	28.01	-161.97	106.24	176.99	412.34	358.03	54.31	7.593	
7,700.00	7,663.02	7,655.32	7,625.79	28.08	28.38	-161.30	117.68	174.89	433.56	378.54	55.02	7.880	
7,800.00	7,762.09	7,756.24	7,725.45	28.48	28.79	-160.18	133.54	173.91	455.46	399.69	55.77	8.167	
7,900.00	7,861.16	7,853.78	7,822.20	28.87	29.18	-159.57	145.79	172.23	476.39	419.88	56.51	8.431	
8,000.00	7,960.22	7,965.16	7,932.12	29.27	29.64	-158.34	163.60	173.66	496.90	439.59	57.31	8.670	
8,100.00	8,059.29	8,073.42	8,039.02	29.66	30.09	-157.12	180.03	178.35	514.59	456.48	58.10	8.856	
8,200.00	8,158.53	8,187.09	8,151.95	30.05	30.53	-156.46	191.90	182.91	528.72	469.67	59.05	8.953	
8,300.00	8,258.13	8,292.39	8,257.08	30.43	30.91	-156.32	197.13	185.43	537.84	477.93	59.92	8.977	
8,400.00	8,357.98	8,394.34	8,358.98	30.62	31.27	-156.25	199.99	187.09	543.12	482.60	60.52	8.974	
8,500.00	8,457.96	8,511.14	8,475.60	30.63	31.68	-155.77	204.01	190.86	544.45	483.50	60.95	8.933	
8,600.00	8,557.51	8,899.28	8,818.16	30.61	32.97	57.79	216.16	355.48	500.87	438.53	62.34	8.035	
8,700.00	8,654.16	9,006.77	8,887.51	30.55	33.35	78.75	215.80	437.43	438.86	375.82	63.04	6.961	
8,800.00	8,744.98	9,041.42	8,906.51	30.47	33.50	91.04	214.92	466.38	383.57	320.48	63.09	6.080	
8,900.00	8,827.19	9,033.27	8,902.23	30.38	33.46	93.47	215.16	459.45	348.35	285.53	62.82	5.545	
8,978.71	8,884.22	9,016.10	8,892.82	30.35	33.39	91.51	215.60	445.09	339.54	276.76	62.78	5.409	
9,000.00	8,898.32	9,010.33	8,889.55	30.34	33.37	90.51	215.72	440.34	340.17	277.39	62.78	5.418	
9,100.00	8,956.18	8,978.76	8,870.82	30.42	33.24	83.58	216.20	414.94	358.72	296.07	62.65	5.725	
9,200.00	8,999.03	8,942.35	8,847.60	30.68	33.11	74.16	216.35	386.90	397.15	335.73	61.42	6.466	
9,300.00	9,025.57	8,902.93	8,820.73	31.20	32.98	63.89	216.19	358.06	446.92	388.52	58.41	7.652	
9,400.00	9,034.98	8,873.00	8,799.18	31.98	32.89	55.27	215.97	337.30	501.51	446.63	54.88	9.139	
9,500.00	9,035.00	8,826.00	8,763.09	32.99	32.75	51.19	216.34	307.23	560.88	507.60	53.28	10.528	
9,600.00	9,035.00	8,805.76	8,746.72	34.21	32.69	49.62	216.99	295.35	627.69	574.46	53.23	11.791	
9,700.00	9,035.00	8,779.00	8,724.47	35.62	32.62	47.63	218.32	280.54	700.36	647.38	52.98	13.220	

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 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 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 - 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 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
9,800.00	9,035.00	8,751.03	8,700.56	37.20	32.53	45.64	219.66	266.10	777.24	724.51	52.73	14.740	
9,900.00	9,035.00	8,732.00	8,683.94	38.92	32.48	44.30	220.18	256.84	857.29	804.31	52.98	16.180	
10,000.00	9,035.00	8,700.59	8,655.93	40.77	32.38	42.13	220.27	242.62	939.81	887.23	52.58	17.873	
10,100.00	9,035.00	8,684.00	8,640.89	42.72	32.33	41.01	219.91	235.65	1,024.58	971.58	53.00	19.331	
10,200.00	9,035.00	8,661.05	8,619.81	44.78	32.25	39.46	218.89	226.63	1,111.13	1,058.08	53.05	20.944	
10,300.00	9,035.00	8,637.00	8,597.44	46.91	32.16	37.86	217.10	218.00	1,199.30	1,146.29	53.01	22.626	
10,400.00	9,035.00	8,637.00	8,597.44	49.12	32.16	37.86	217.10	218.00	1,288.70	1,234.27	54.44	23.673	
10,500.00	9,035.00	8,637.00	8,597.44	51.39	32.16	37.86	217.10	218.00	1,379.57	1,323.66	55.91	24.674	
10,600.00	9,035.00	8,614.73	8,576.45	53.72	32.08	36.40	214.96	210.88	1,470.97	1,415.03	55.94	26.294	
10,700.00	9,035.00	8,607.36	8,569.43	56.09	32.05	35.92	214.18	208.75	1,563.51	1,506.57	56.94	27.457	
10,800.00	9,035.00	8,589.00	8,551.84	58.51	31.98	34.76	212.13	203.92	1,656.97	1,599.78	57.19	28.973	
10,900.00	9,035.00	8,589.00	8,551.84	60.96	31.98	34.76	212.13	203.92	1,750.77	1,692.08	58.69	29.831	
11,000.00	9,035.00	8,589.00	8,551.84	63.45	31.98	34.76	212.13	203.92	1,845.22	1,785.01	60.21	30.646	
11,100.00	9,035.00	8,589.00	8,551.84	65.97	31.98	34.76	212.13	203.92	1,940.22	1,878.47	61.75	31.420	
11,200.00	9,035.00	8,589.00	8,551.84	68.51	31.98	34.76	212.13	203.92	2,035.70	1,972.40	63.31	32.157	
11,300.00	9,035.00	8,589.00	8,551.84	71.08	31.98	34.76	212.13	203.92	2,131.60	2,066.72	64.88	32.857	
11,400.00	9,035.00	8,589.00	8,551.84	73.66	31.98	34.76	212.13	203.92	2,227.86	2,161.40	66.46	33.522	
11,500.00	9,035.00	8,567.73	8,531.25	76.27	31.90	33.46	209.69	199.17	2,323.88	2,257.54	66.34	35.030	
11,600.00	9,035.00	8,564.30	8,527.92	78.89	31.89	33.26	209.30	198.49	2,420.54	2,352.91	67.63	35.792	
11,700.00	9,035.00	8,542.00	8,506.09	81.53	31.80	31.98	206.85	194.63	2,517.88	2,450.48	67.40	37.358	
11,800.00	9,035.00	8,542.00	8,506.09	84.18	31.80	31.98	206.85	194.63	2,614.86	2,545.93	68.93	37.935	
11,900.00	9,035.00	8,542.00	8,506.09	86.84	31.80	31.98	206.85	194.63	2,712.06	2,641.59	70.47	38.486	
12,000.00	9,035.00	8,542.00	8,506.09	89.52	31.80	31.98	206.85	194.63	2,809.45	2,737.44	72.01	39.012	
12,100.00	9,035.00	8,542.00	8,506.09	92.20	31.80	31.98	206.85	194.63	2,907.03	2,833.46	73.57	39.516	
12,200.00	9,035.00	8,542.00	8,506.09	94.90	31.80	31.98	206.85	194.63	3,004.76	2,929.63	75.12	39.997	
12,300.00	9,035.00	8,542.00	8,506.09	97.60	31.80	31.98	206.85	194.63	3,102.63	3,025.95	76.69	40.458	
12,400.00	9,035.00	8,542.00	8,506.09	100.31	31.80	31.98	206.85	194.63	3,200.64	3,122.39	78.26	40.900	
12,500.00	9,035.00	8,542.00	8,506.09	103.03	31.80	31.98	206.85	194.63	3,298.77	3,218.94	79.83	41.323	
12,600.00	9,035.00	8,542.00	8,506.09	105.76	31.80	31.98	206.85	194.63	3,397.01	3,315.60	81.41	41.730	
12,700.00	9,035.00	8,542.00	8,506.09	108.49	31.80	31.98	206.85	194.63	3,495.34	3,412.36	82.99	42.120	
12,800.00	9,035.00	8,542.00	8,506.09	111.22	31.80	31.98	206.85	194.63	3,593.77	3,509.20	84.57	42.495	
12,900.00	9,035.00	8,542.00	8,506.09	113.97	31.80	31.98	206.85	194.63	3,692.28	3,606.13	86.16	42.855	
13,000.00	9,035.00	8,542.00	8,506.09	116.72	31.80	31.98	206.85	194.63	3,790.88	3,703.13	87.75	43.202	
13,100.00	9,035.00	8,542.00	8,506.09	119.47	31.80	31.98	206.85	194.63	3,889.54	3,800.20	89.34	43.536	
13,200.00	9,035.00	8,542.00	8,506.09	122.23	31.80	31.98	206.85	194.63	3,988.27	3,897.33	90.94	43.857	
13,300.00	9,035.00	8,542.00	8,506.09	124.99	31.80	31.98	206.85	194.63	4,087.06	3,994.52	92.54	44.167	
13,400.00	9,035.00	8,542.00	8,506.09	127.75	31.80	31.98	206.85	194.63	4,185.91	4,091.77	94.14	44.466	
13,500.00	9,035.00	8,542.00	8,506.09	130.52	31.80	31.98	206.85	194.63	4,284.81	4,189.07	95.74	44.755	
13,600.00	9,035.00	8,542.00	8,506.09	133.29	31.80	31.98	206.85	194.63	4,383.76	4,286.42	97.34	45.033	
13,700.00	9,035.00	8,542.00	8,506.09	136.07	31.80	31.98	206.85	194.63	4,482.76	4,383.81	98.95	45.303	
13,800.00	9,035.00	8,542.00	8,506.09	138.85	31.80	31.98	206.85	194.63	4,581.80	4,481.24	100.56	45.563	
13,900.00	9,035.00	8,542.00	8,506.09	141.63	31.80	31.98	206.85	194.63	4,680.88	4,578.71	102.17	45.814	
14,000.00	9,035.00	8,519.94	8,484.32	144.41	31.72	30.79	204.72	191.75	4,779.47	4,678.30	101.17	47.241	
14,077.15	9,035.00	8,519.14	8,483.54	146.56	31.71	30.75	204.65	191.66	4,855.93	4,753.64	102.29	47.471	

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 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 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 - 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 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	138.88	-783.81	684.21	1,040.43				
100.00	100.00	97.56	97.56	0.12	0.16	138.88	-783.89	684.25	1,040.52	1,040.24	0.28	3,740.930	
200.00	200.00	201.97	201.97	0.48	0.52	138.85	-783.29	684.40	1,040.18	1,039.18	1.00	1,039.185	
300.00	300.00	303.33	303.33	0.84	0.88	138.83	-782.91	684.61	1,040.03	1,038.31	1.72	606.325	
400.00	400.00	414.49	414.48	1.20	1.27	138.87	-782.30	683.10	1,038.70	1,036.24	2.46	422.006	
500.00	500.00	515.68	515.64	1.55	1.62	138.92	-781.59	681.38	1,037.06	1,033.88	3.17	326.686	
600.00	600.00	614.84	614.79	1.91	1.97	138.96	-780.85	679.74	1,035.40	1,031.51	3.88	266.610	
700.00	700.00	715.35	715.28	2.27	2.33	138.99	-780.02	678.20	1,033.77	1,029.17	4.60	224.780	
800.00	800.00	816.51	816.43	2.63	2.69	138.99	-778.59	677.10	1,031.99	1,026.67	5.32	194.068	
900.00	900.00	914.23	914.13	2.99	3.04	138.99	-777.36	676.06	1,030.34	1,024.32	6.02	171.019	
1,000.00	1,000.00	1,013.57	1,013.47	3.35	3.40	138.99	-776.21	675.02	1,028.78	1,022.05	6.74	152.682	
1,100.00	1,100.00	1,108.15	1,108.03	3.70	3.73	138.98	-775.09	674.37	1,027.44	1,020.01	7.43	138.230	
1,181.87	1,181.87	1,179.99	1,179.87	4.00	3.98	138.94	-774.42	674.56	1,027.01	1,019.03	7.98	128.718	
1,200.00	1,200.00	1,194.66	1,194.54	4.06	4.03	138.93	-774.33	674.70	1,027.04	1,018.95	8.09	126.888	
1,300.00	1,300.00	1,276.51	1,276.37	4.42	4.31	138.86	-774.30	676.32	1,028.30	1,019.57	8.73	117.749	
1,400.00	1,400.00	1,365.33	1,365.14	4.78	4.62	138.77	-774.94	679.20	1,030.98	1,021.59	9.39	109.762	
1,500.00	1,500.00	1,465.78	1,465.54	5.14	4.96	138.69	-776.30	682.34	1,034.07	1,023.97	10.09	102.454	
1,600.00	1,600.00	1,554.23	1,553.92	5.50	5.26	138.62	-777.96	685.43	1,037.78	1,027.02	10.75	96.504	
1,700.00	1,700.00	1,649.43	1,649.01	5.86	5.59	138.56	-780.47	689.02	1,042.25	1,030.81	11.44	91.113	
1,800.00	1,800.00	1,745.28	1,744.74	6.21	5.92	138.55	-783.93	692.32	1,047.23	1,035.10	12.13	86.350	
1,900.00	1,900.00	1,867.37	1,866.72	6.57	6.34	138.64	-788.60	694.23	1,051.11	1,038.20	12.91	81.428	
2,000.00	2,000.00	1,970.20	1,969.49	6.93	6.70	138.77	-792.18	694.35	1,053.79	1,040.17	13.62	77.346	
2,100.00	2,100.00	2,104.71	2,103.93	7.29	7.17	93.94	-795.92	693.49	1,055.69	1,041.24	14.45	73.071	
2,200.00	2,199.99	2,218.54	2,217.68	7.64	7.56	94.27	-797.42	689.40	1,054.41	1,039.21	15.20	69.376	
2,300.00	2,299.93	2,318.13	2,317.19	8.00	7.91	94.65	-798.37	685.45	1,052.80	1,036.90	15.90	66.209	
2,400.00	2,399.82	2,425.43	2,424.40	8.35	8.28	95.15	-799.29	681.22	1,051.36	1,034.72	16.63	63.209	
2,500.00	2,499.68	2,540.54	2,539.38	8.71	8.69	95.66	-798.29	675.83	1,048.11	1,030.72	17.39	60.259	
2,600.00	2,599.61	2,637.19	2,635.92	9.06	9.03	95.98	-797.28	671.23	1,044.67	1,026.58	18.09	57.747	
2,700.00	2,699.59	2,749.46	2,748.03	9.42	9.43	96.26	-796.11	665.59	1,040.95	1,022.10	18.84	55.243	
2,800.00	2,799.59	2,853.38	2,851.74	9.77	9.80	141.47	-794.30	659.19	1,035.77	1,016.20	19.56	52.947	
2,900.00	2,899.59	2,953.52	2,951.67	10.13	10.16	141.68	-792.55	652.97	1,030.53	1,010.26	20.28	50.825	
3,000.00	2,999.59	3,086.67	3,084.39	10.49	10.63	141.95	-788.17	643.22	1,023.33	1,002.22	21.11	48.476	
3,100.00	3,099.59	3,191.51	3,188.76	10.85	11.01	142.17	-783.48	634.59	1,014.74	992.90	21.84	46.453	
3,200.00	3,199.59	3,309.77	3,306.26	11.21	11.45	142.56	-778.42	622.21	1,004.97	982.33	22.63	44.402	
3,300.00	3,299.59	3,415.02	3,410.38	11.57	11.84	143.12	-774.90	607.27	993.66	970.28	23.38	42.503	
3,400.00	3,399.59	3,497.32	3,491.60	11.92	12.15	143.70	-773.83	594.08	983.02	958.98	24.04	40.889	
3,500.00	3,499.59	3,573.97	3,567.28	12.28	12.44	144.31	-774.79	581.90	974.64	949.96	24.68	39.490	
3,600.00	3,599.58	3,657.49	3,649.97	12.63	12.76	42.33	-776.86	570.43	967.68	942.35	25.33	38.204	
3,700.00	3,699.46	3,755.54	3,747.40	12.97	13.13	43.21	-778.09	559.51	958.90	932.89	26.01	36.868	
3,800.00	3,799.12	3,851.89	3,843.38	13.32	13.49	44.11	-777.93	551.03	947.91	921.25	26.67	35.548	
3,900.00	3,898.43	3,946.76	3,937.91	13.67	13.84	45.17	-777.80	543.13	934.93	907.62	27.31	34.239	
4,000.00	3,997.50	4,040.74	4,031.60	14.02	14.19	46.15	-777.82	535.72	921.19	893.19	28.00	32.899	
4,100.00	4,096.57	4,135.22	4,125.83	14.37	14.54	47.11	-777.93	528.86	908.13	879.43	28.70	31.638	
4,200.00	4,195.64	4,230.61	4,220.99	14.73	14.90	48.10	-778.21	522.20	895.66	866.24	29.41	30.450	
4,300.00	4,294.70	4,325.86	4,316.03	15.09	15.25	49.10	-778.63	515.86	883.75	853.62	30.13	29.335	
4,400.00	4,393.77	4,421.28	4,411.25	15.45	15.60	50.12	-779.30	509.71	872.45	841.61	30.84	28.289	
4,500.00	4,492.84	4,510.43	4,500.21	15.81	15.93	51.11	-780.29	504.02	861.87	830.34	31.54	27.330	
4,600.00	4,591.91	4,600.57	4,590.13	16.18	16.26	52.18	-783.02	498.27	853.26	821.02	32.24	26.468	
4,700.00	4,690.98	4,717.65	4,706.88	16.55	16.69	53.61	-785.30	489.96	843.77	810.72	33.05	25.532	
4,800.00	4,790.04	4,819.49	4,808.46	16.92	17.07	54.85	-785.70	482.67	833.26	799.46	33.80	24.653	
4,900.00	4,889.11	4,916.41	4,905.18	17.29	17.43	56.01	-785.83	476.46	823.17	788.64	34.53	23.837	

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 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 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 - 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 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
5,000.00	4,988.18	5,012.52	5,001.12	17.66	17.78	57.15	-785.91	470.81	813.57	778.30	35.27	23.070	
5,100.00	5,087.25	5,105.54	5,094.04	18.04	18.12	58.21	-786.05	466.30	804.73	768.74	35.98	22.364	
5,200.00	5,186.32	5,201.07	5,189.53	18.41	18.46	59.16	-786.01	464.06	796.79	760.09	36.71	21.708	
5,300.00	5,285.39	5,294.87	5,283.32	18.79	18.79	60.07	-786.12	462.50	789.46	752.05	37.41	21.102	
5,400.00	5,384.45	5,393.75	5,382.20	19.17	19.12	60.90	-786.21	462.78	782.87	744.75	38.12	20.535	
5,500.00	5,483.52	5,497.40	5,485.85	19.55	19.46	61.79	-785.89	463.00	776.05	737.20	38.85	19.974	
5,600.00	5,582.59	5,581.23	5,569.67	19.93	19.74	62.49	-785.82	463.70	769.83	730.32	39.52	19.481	
5,700.00	5,681.66	5,673.05	5,661.44	20.31	20.05	63.16	-787.23	466.41	765.78	725.58	40.20	19.049	
5,800.00	5,780.73	5,772.98	5,761.32	20.69	20.37	63.89	-788.95	469.25	762.02	721.11	40.91	18.625	
5,900.00	5,879.79	5,874.90	5,863.16	21.07	20.70	64.59	-790.32	472.98	758.21	716.58	41.63	18.212	
6,000.00	5,978.86	5,972.90	5,961.08	21.46	21.02	65.24	-791.41	476.86	754.35	712.01	42.34	17.817	
6,100.00	6,077.93	6,072.42	6,060.54	21.84	21.35	66.00	-792.98	479.57	750.80	707.74	43.06	17.437	
6,200.00	6,177.00	6,182.17	6,170.28	22.23	21.72	66.99	-794.35	480.68	746.75	702.93	43.82	17.042	
6,300.00	6,276.07	6,287.84	6,275.91	22.61	22.07	67.80	-794.02	483.46	741.63	697.07	44.56	16.644	
6,400.00	6,375.13	6,388.27	6,376.25	23.00	22.40	68.46	-793.01	487.53	736.17	690.89	45.28	16.258	
6,500.00	6,474.20	6,488.68	6,476.58	23.39	22.74	69.15	-791.92	491.38	730.71	684.71	46.01	15.883	
6,600.00	6,573.27	6,593.92	6,581.75	23.78	23.09	69.91	-790.49	495.04	725.05	678.30	46.75	15.509	
6,700.00	6,672.34	6,699.54	6,687.27	24.17	23.44	70.68	-787.75	498.66	718.25	670.75	47.50	15.122	
6,800.00	6,771.41	6,797.24	6,784.85	24.56	23.77	71.35	-785.06	502.60	711.49	663.27	48.22	14.755	
6,900.00	6,870.47	6,890.46	6,878.03	24.95	24.09	72.15	-783.07	504.62	705.28	656.34	48.93	14.413	
7,000.00	6,969.54	6,982.56	6,970.10	25.34	24.42	73.25	-782.50	503.03	700.42	650.77	49.66	14.105	
7,100.00	7,068.61	7,076.65	7,064.13	25.73	24.75	74.53	-782.65	499.78	696.56	646.16	50.39	13.822	
7,200.00	7,167.68	7,170.92	7,158.30	26.12	25.09	75.90	-783.54	495.52	693.82	642.69	51.14	13.568	
7,300.00	7,266.75	7,268.55	7,255.80	26.51	25.44	77.38	-784.80	490.56	691.90	640.01	51.89	13.334	
7,400.00	7,365.82	7,368.52	7,355.65	26.90	25.80	78.86	-785.99	485.89	690.33	637.68	52.65	13.111	
7,500.00	7,464.88	7,463.99	7,451.05	27.30	26.14	80.20	-787.10	482.51	689.16	635.77	53.39	12.907	
7,600.00	7,563.95	7,561.05	7,548.09	27.69	26.48	81.40	-788.96	481.01	688.99	634.85	54.14	12.727	
7,700.00	7,663.02	7,663.83	7,650.84	28.08	26.84	82.65	-790.71	479.64	688.90	634.01	54.89	12.550	
7,800.00	7,762.09	7,767.32	7,754.31	28.48	27.21	83.95	-791.71	477.86	688.45	632.79	55.66	12.369	
7,900.00	7,861.16	7,864.55	7,851.50	28.87	27.55	85.25	-792.26	475.35	688.06	631.66	56.40	12.199	
7,902.04	7,863.18	7,866.50	7,853.46	28.88	27.56	85.27	-792.27	475.31	688.06	631.64	56.42	12.196	
8,000.00	7,960.22	7,965.46	7,952.38	29.27	27.91	86.60	-792.91	472.67	688.13	630.97	57.16	12.039	
8,100.00	8,059.29	8,059.45	8,046.32	29.66	28.25	87.90	-793.49	469.71	688.64	630.75	57.89	11.896	
8,200.00	8,158.53	8,163.71	8,150.56	30.05	28.62	89.10	-794.57	468.01	689.67	631.02	58.65	11.760	
8,300.00	8,258.13	8,269.86	8,256.70	30.43	28.98	89.87	-794.92	468.08	689.90	630.52	59.38	11.618	
8,310.71	8,268.82	8,279.92	8,266.76	30.45	29.02	89.93	-794.92	468.08	689.89	630.46	59.44	11.607	
8,400.00	8,357.98	8,364.07	8,350.91	30.62	29.31	90.32	-795.18	467.74	690.25	630.35	59.90	11.523	
8,500.00	8,457.96	8,484.20	8,471.03	30.63	29.73	90.55	-795.60	467.03	690.98	630.65	60.33	11.454	
8,600.00	8,557.51	8,740.49	8,718.91	30.61	30.53	-82.81	-761.38	510.46	667.37	606.26	61.10	10.922	
8,700.00	8,654.16	8,794.00	8,766.32	30.55	30.68	-88.30	-753.91	534.06	643.46	582.29	61.17	10.519	
8,800.00	8,744.98	8,826.00	8,793.93	30.47	30.78	-92.06	-751.39	550.04	629.96	568.83	61.13	10.305	
8,843.93	8,782.30	8,826.00	8,793.93	30.43	30.78	-92.22	-751.39	550.04	628.37	567.28	61.09	10.286	CC, ES, SF
8,900.00	8,827.19	8,841.35	8,806.94	30.38	30.82	-93.29	-750.74	558.14	630.58	569.53	61.05	10.329	
9,000.00	8,898.32	8,857.00	8,820.02	30.34	30.87	-93.02	-750.45	566.74	647.10	586.03	61.06	10.597	
9,100.00	8,956.18	8,857.00	8,820.02	30.42	30.87	-89.69	-750.45	566.74	678.55	617.32	61.22	11.083	
9,200.00	8,999.03	8,847.03	8,811.72	30.68	30.84	-83.93	-750.59	561.22	722.29	661.05	61.24	11.795	
9,300.00	9,025.57	8,826.00	8,793.93	31.20	30.78	-76.13	-751.39	550.04	774.91	714.46	60.45	12.818	
9,400.00	9,034.98	8,826.00	8,793.93	31.98	30.78	-69.44	-751.39	550.04	832.28	772.99	59.29	14.037	
9,500.00	9,035.00	8,794.00	8,766.32	32.99	30.68	-67.07	-753.91	534.06	894.07	834.76	59.31	15.075	
9,600.00	9,035.00	8,794.00	8,766.32	34.21	30.68	-67.07	-753.91	534.06	961.47	901.03	60.44	15.908	

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 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 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 - 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 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
9,700.00	9,035.00	8,763.00	8,739.07	35.62	30.59	-65.14	-757.84	519.83	1,033.33	972.46	60.87	16.976	
9,800.00	9,035.00	8,763.00	8,739.07	37.20	30.59	-65.14	-757.84	519.83	1,109.04	1,046.73	62.30	17.801	
9,900.00	9,035.00	8,743.83	8,721.93	38.92	30.54	-63.98	-760.83	511.79	1,187.81	1,124.52	63.29	18.767	
10,000.00	9,035.00	8,731.00	8,710.31	40.77	30.50	-63.22	-762.97	506.79	1,269.27	1,204.72	64.56	19.661	
10,100.00	9,035.00	8,731.00	8,710.31	42.72	30.50	-63.22	-762.97	506.79	1,353.01	1,286.70	66.31	20.404	
10,200.00	9,035.00	8,713.31	8,694.10	44.78	30.45	-62.19	-766.06	500.42	1,438.40	1,370.84	67.56	21.290	
10,300.00	9,035.00	8,700.00	8,681.76	46.91	30.42	-61.42	-768.46	496.03	1,525.49	1,456.49	69.00	22.109	
10,400.00	9,035.00	8,700.00	8,681.76	49.12	30.42	-61.42	-768.46	496.03	1,613.86	1,542.91	70.95	22.747	
10,500.00	9,035.00	8,700.00	8,681.76	51.39	30.42	-61.42	-768.46	496.03	1,703.52	1,630.57	72.96	23.350	
10,600.00	9,035.00	8,683.73	8,666.54	53.72	30.37	-60.50	-771.46	491.15	1,793.94	1,719.54	74.40	24.114	
10,700.00	9,035.00	8,668.00	8,651.68	56.09	30.32	-59.63	-774.44	486.92	1,885.46	1,809.60	75.86	24.855	
10,800.00	9,035.00	8,668.00	8,651.68	58.51	30.32	-59.63	-774.44	486.92	1,977.51	1,899.55	77.96	25.366	
10,900.00	9,035.00	8,668.00	8,651.68	60.96	30.32	-59.63	-774.44	486.92	2,070.30	1,990.21	80.10	25.848	
11,000.00	9,035.00	8,668.00	8,651.68	63.45	30.32	-59.63	-774.44	486.92	2,163.74	2,081.48	82.26	26.303	
11,100.00	9,035.00	8,668.00	8,651.68	65.97	30.32	-59.63	-774.44	486.92	2,257.74	2,173.28	84.45	26.734	
11,200.00	9,035.00	8,653.90	8,638.26	68.51	30.28	-58.86	-777.13	483.55	2,351.99	2,265.96	86.03	27.340	
11,300.00	9,035.00	8,650.09	8,634.62	71.08	30.27	-58.66	-777.86	482.71	2,446.77	2,358.70	88.07	27.782	
11,400.00	9,035.00	8,636.00	8,621.09	73.66	30.23	-57.91	-780.56	479.85	2,542.06	2,452.43	89.63	28.361	
11,500.00	9,035.00	8,636.00	8,621.09	76.27	30.23	-57.91	-780.56	479.85	2,637.47	2,545.60	91.86	28.711	
11,600.00	9,035.00	8,636.00	8,621.09	78.89	30.23	-57.91	-780.56	479.85	2,733.21	2,639.10	94.11	29.043	
11,700.00	9,035.00	8,636.00	8,621.09	81.53	30.23	-57.91	-780.56	479.85	2,829.24	2,732.87	96.37	29.358	
11,800.00	9,035.00	8,636.00	8,621.09	84.18	30.23	-57.91	-780.56	479.85	2,925.54	2,826.90	98.64	29.658	
11,900.00	9,035.00	8,636.00	8,621.09	86.84	30.23	-57.91	-780.56	479.85	3,022.08	2,921.16	100.93	29.943	
12,000.00	9,035.00	8,636.00	8,621.09	89.52	30.23	-57.91	-780.56	479.85	3,118.84	3,015.62	103.22	30.215	
12,100.00	9,035.00	8,636.00	8,621.09	92.20	30.23	-57.91	-780.56	479.85	3,215.80	3,110.28	105.52	30.475	
12,200.00	9,035.00	8,620.83	8,606.42	94.90	30.18	-57.11	-783.37	477.17	3,312.74	3,205.78	106.96	30.973	
12,300.00	9,035.00	8,618.02	8,603.69	97.60	30.17	-56.96	-783.87	476.71	3,409.96	3,300.87	109.09	31.259	
12,400.00	9,035.00	8,605.00	8,591.01	100.31	30.13	-56.28	-786.07	474.77	3,507.42	3,396.82	110.60	31.713	
12,500.00	9,035.00	8,605.00	8,591.01	103.03	30.13	-56.28	-786.07	474.77	3,604.88	3,491.99	112.89	31.932	
12,600.00	9,035.00	8,605.00	8,591.01	105.76	30.13	-56.28	-786.07	474.77	3,702.48	3,587.29	115.19	32.142	
12,700.00	9,035.00	8,605.00	8,591.01	108.49	30.13	-56.28	-786.07	474.77	3,800.20	3,682.70	117.50	32.343	
12,800.00	9,035.00	8,605.00	8,591.01	111.22	30.13	-56.28	-786.07	474.77	3,898.03	3,778.23	119.81	32.536	
12,900.00	9,035.00	8,605.00	8,591.01	113.97	30.13	-56.28	-786.07	474.77	3,995.98	3,873.86	122.12	32.721	
13,000.00	9,035.00	8,605.00	8,591.01	116.72	30.13	-56.28	-786.07	474.77	4,094.02	3,969.58	124.44	32.899	
13,100.00	9,035.00	8,605.00	8,591.01	119.47	30.13	-56.28	-786.07	474.77	4,192.16	4,065.39	126.77	33.070	
13,200.00	9,035.00	8,605.00	8,591.01	122.23	30.13	-56.28	-786.07	474.77	4,290.38	4,161.29	129.09	33.235	
13,300.00	9,035.00	8,605.00	8,591.01	124.99	30.13	-56.28	-786.07	474.77	4,388.68	4,257.26	131.42	33.393	
13,400.00	9,035.00	8,605.00	8,591.01	127.75	30.13	-56.28	-786.07	474.77	4,487.06	4,353.30	133.76	33.546	
13,500.00	9,035.00	8,591.09	8,577.38	130.52	30.09	-55.56	-788.19	472.97	4,585.37	4,450.33	135.04	33.956	
13,600.00	9,035.00	8,589.30	8,575.62	133.29	30.08	-55.47	-788.44	472.76	4,683.84	4,546.62	137.22	34.134	
13,700.00	9,035.00	8,587.58	8,573.93	136.07	30.07	-55.38	-788.68	472.56	4,782.37	4,642.97	139.41	34.306	
13,800.00	9,035.00	8,573.00	8,559.54	138.85	30.03	-54.62	-790.48	471.04	4,881.08	4,740.55	140.54	34.731	
13,900.00	9,035.00	8,573.00	8,559.54	141.63	30.03	-54.62	-790.48	471.04	4,979.70	4,836.85	142.84	34.861	
14,000.00	9,035.00	8,573.00	8,559.54	144.41	30.03	-54.62	-790.48	471.04	5,078.37	4,933.22	145.15	34.986	
14,077.15	9,035.00	8,573.00	8,559.54	146.56	30.03	-54.62	-790.48	471.04	5,154.53	5,007.59	146.94	35.080	

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 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 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 - 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 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	139.95	-813.92	684.24	1,063.33				
100.00	100.00	93.76	93.76	0.12	0.15	139.93	-813.91	684.55	1,063.52	1,063.25	0.27	3,993.210	
200.00	200.00	210.11	210.10	0.48	0.40	139.87	-813.46	685.64	1,063.93	1,063.06	0.88	1,211.839	
300.00	300.00	332.71	332.60	0.84	0.84	139.71	-808.75	685.74	1,060.90	1,059.23	1.67	635.115	
400.00	400.00	435.26	435.07	1.20	1.20	139.56	-804.37	685.46	1,057.47	1,055.07	2.40	441.059	
500.00	500.00	538.38	538.07	1.55	1.57	139.43	-799.65	684.66	1,053.47	1,050.34	3.13	336.761	
600.00	600.00	626.22	625.85	1.91	1.89	139.35	-796.56	683.97	1,050.28	1,046.48	3.80	276.178	
700.00	700.00	716.23	715.84	2.27	2.21	139.30	-794.40	683.36	1,048.03	1,043.55	4.48	233.837	
800.00	800.00	800.23	799.83	2.63	2.50	139.30	-793.80	682.88	1,047.12	1,041.98	5.13	204.050	
814.49	814.49	812.89	812.49	2.68	2.55	139.30	-793.86	682.80	1,047.10	1,041.88	5.23	200.363	
900.00	900.00	888.39	887.98	2.99	2.80	139.37	-795.01	682.05	1,047.54	1,041.76	5.79	181.057	
1,000.00	1,000.00	988.35	987.89	3.35	3.13	139.54	-797.67	680.40	1,048.49	1,042.01	6.48	161.832	
1,100.00	1,100.00	1,086.56	1,086.05	3.70	3.47	139.69	-800.25	678.96	1,049.53	1,042.36	7.17	146.357	
1,200.00	1,200.00	1,180.18	1,179.63	4.06	3.79	139.81	-802.58	678.07	1,050.84	1,042.99	7.85	133.857	
1,300.00	1,300.00	1,262.92	1,262.34	4.42	4.07	139.88	-805.05	678.51	1,053.45	1,044.95	8.49	124.029	
1,400.00	1,400.00	1,358.29	1,357.63	4.78	4.40	139.94	-808.60	679.88	1,057.21	1,048.03	9.18	115.145	
1,500.00	1,500.00	1,493.96	1,493.24	5.14	4.88	140.10	-812.29	679.29	1,058.90	1,048.88	10.01	105.736	
1,600.00	1,600.00	1,603.94	1,603.20	5.50	5.26	140.21	-813.58	677.59	1,058.80	1,048.04	10.76	98.397	
1,700.00	1,700.00	1,710.37	1,709.60	5.86	5.64	140.34	-814.41	675.25	1,058.00	1,046.50	11.49	92.040	
1,800.00	1,800.00	1,821.73	1,820.87	6.21	6.04	140.57	-815.72	670.87	1,056.40	1,044.16	12.25	86.251	
1,900.00	1,900.00	1,927.55	1,926.52	6.57	6.41	140.84	-816.95	665.26	1,053.94	1,040.96	12.98	81.185	
2,000.00	2,000.00	2,025.45	2,024.29	6.93	6.76	141.09	-817.85	660.13	1,051.36	1,037.67	13.69	76.807	
2,100.00	2,100.00	2,131.09	2,129.63	7.29	7.14	96.50	-820.05	652.57	1,048.50	1,034.07	14.43	72.644	
2,200.00	2,199.99	2,231.17	2,229.36	7.64	7.51	97.04	-822.57	644.58	1,045.70	1,030.55	15.15	69.018	
2,300.00	2,299.93	2,328.33	2,326.18	8.00	7.87	97.65	-824.92	636.82	1,043.14	1,027.28	15.86	65.772	
2,400.00	2,399.82	2,421.91	2,419.54	8.35	8.21	98.25	-826.85	630.66	1,041.47	1,024.91	16.56	62.904	
2,500.00	2,499.68	2,518.79	2,516.22	8.71	8.56	98.83	-828.83	624.86	1,040.31	1,023.04	17.27	60.254	
2,600.00	2,599.61	2,616.92	2,614.15	9.06	8.92	99.36	-831.13	618.90	1,039.23	1,021.24	17.98	57.794	
2,700.00	2,699.59	2,714.32	2,711.14	9.42	9.28	99.94	-835.00	610.96	1,038.09	1,019.39	18.70	55.517	
2,800.00	2,799.59	2,812.05	2,808.48	9.77	9.65	145.43	-839.07	603.15	1,037.00	1,017.66	19.34	53.624	
2,900.00	2,899.59	2,912.84	2,908.91	10.13	10.02	145.90	-842.98	595.59	1,035.97	1,015.91	20.06	51.649	
3,000.00	2,999.59	3,037.53	3,033.06	10.49	10.49	146.51	-847.14	585.02	1,034.10	1,013.23	20.87	49.561	
3,100.00	3,099.59	3,138.00	3,132.97	10.85	10.87	147.07	-849.74	574.66	1,030.60	1,009.01	21.59	47.741	
3,200.00	3,199.59	3,234.33	3,228.79	11.21	11.24	147.60	-852.22	565.07	1,027.38	1,005.08	22.29	46.083	
3,300.00	3,299.59	3,334.43	3,328.39	11.57	11.62	148.13	-854.75	555.38	1,024.35	1,001.33	23.01	44.509	
3,400.00	3,399.59	3,433.33	3,426.81	11.92	12.00	148.65	-857.16	545.96	1,021.42	997.69	23.73	43.042	
3,500.00	3,499.59	3,532.77	3,525.77	12.28	12.38	149.17	-859.55	536.56	1,018.59	994.14	24.45	41.662	
3,600.00	3,599.58	3,629.44	3,622.00	12.63	12.75	47.03	-861.90	527.65	1,015.12	989.76	25.37	40.020	
3,700.00	3,699.46	3,724.72	3,716.83	12.97	13.11	47.81	-864.68	518.78	1,009.80	983.76	26.05	38.765	
3,800.00	3,799.12	3,822.25	3,813.89	13.32	13.48	48.80	-867.69	509.70	1,002.51	975.77	26.73	37.500	
3,900.00	3,898.43	3,916.01	3,907.21	13.67	13.84	49.92	-870.80	501.22	993.52	966.13	27.40	36.266	
4,000.00	3,997.50	4,012.24	4,003.01	14.02	14.21	51.04	-874.14	492.77	983.90	955.78	28.11	34.996	
4,100.00	4,096.57	4,108.91	4,099.30	14.37	14.58	52.15	-877.36	484.78	974.75	945.91	28.84	33.799	
4,200.00	4,195.64	4,205.31	4,195.35	14.73	14.95	53.25	-880.51	477.26	966.14	936.57	29.56	32.679	
4,300.00	4,294.70	4,303.69	4,293.39	15.09	15.32	54.37	-883.67	469.81	957.94	927.64	30.30	31.616	
4,400.00	4,393.77	4,404.37	4,393.77	15.45	15.70	55.52	-886.63	462.44	949.97	918.93	31.04	30.603	
4,500.00	4,492.84	4,498.83	4,488.06	15.81	16.05	56.50	-888.45	457.21	942.09	910.33	31.76	29.667	
4,600.00	4,591.91	4,587.31	4,576.47	16.18	16.37	57.32	-890.52	454.41	935.66	903.22	32.44	28.841	
4,700.00	4,690.98	4,685.35	4,674.46	16.55	16.72	58.19	-892.79	452.22	929.79	896.63	33.15	28.044	
4,800.00	4,790.04	4,783.18	4,772.27	16.92	17.04	58.89	-894.39	452.80	924.37	890.52	33.85	27.309	
4,900.00	4,889.11	4,889.97	4,878.99	17.29	17.38	59.45	-894.73	456.57	918.76	884.21	34.56	26.588	

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 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 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 - 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 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
5,000.00	4,988.18	4,995.68	4,984.56	17.66	17.71	59.90	-893.51	461.78	912.24	876.99	35.25	25.877	
5,100.00	5,087.25	5,095.40	5,084.15	18.04	18.02	60.33	-892.12	466.61	905.52	869.58	35.94	25.198	
5,200.00	5,186.32	5,192.09	5,180.76	18.41	18.33	60.79	-891.11	470.66	899.00	862.39	36.61	24.554	
5,300.00	5,285.39	5,288.05	5,276.64	18.79	18.63	61.29	-890.58	474.40	892.94	855.65	37.29	23.944	
5,400.00	5,384.45	5,413.12	5,401.66	19.17	19.04	62.05	-889.23	477.40	886.12	848.04	38.08	23.272	
5,500.00	5,483.52	5,515.41	5,503.91	19.55	19.38	62.79	-886.56	477.74	877.32	838.53	38.80	22.614	
5,600.00	5,582.59	5,608.12	5,596.58	19.93	19.68	63.45	-884.32	478.43	868.95	829.47	39.48	22.008	
5,700.00	5,681.66	5,706.18	5,694.62	20.31	20.01	64.14	-882.17	479.44	861.00	820.81	40.19	21.424	
5,800.00	5,780.73	5,795.45	5,783.88	20.69	20.31	64.85	-881.15	479.63	854.01	813.14	40.87	20.894	
5,900.00	5,879.79	5,904.63	5,893.05	21.07	20.69	65.78	-879.82	479.09	846.97	805.33	41.63	20.343	
6,000.00	5,978.86	6,000.83	5,989.23	21.46	21.03	66.69	-878.34	477.40	839.57	797.22	42.36	19.821	
6,100.00	6,077.93	6,086.82	6,075.11	21.84	21.34	67.71	-878.60	473.27	833.67	790.62	43.06	19.363	
6,200.00	6,177.00	6,183.63	6,171.76	22.23	21.69	68.93	-879.61	467.83	828.75	784.95	43.80	18.921	
6,300.00	6,276.07	6,272.88	6,260.94	22.61	22.01	69.96	-880.98	464.53	824.94	780.43	44.51	18.533	
6,400.00	6,375.13	6,364.10	6,352.11	23.00	22.34	70.92	-883.15	462.69	822.48	777.25	45.22	18.187	
6,500.00	6,474.20	6,461.63	6,449.60	23.39	22.68	71.90	-885.85	461.52	820.75	774.80	45.96	17.860	
6,600.00	6,573.27	6,557.00	6,544.92	23.78	23.01	72.74	-888.70	462.10	819.63	772.96	46.67	17.562	
6,700.00	6,672.34	6,698.00	6,684.27	24.17	23.44	72.69	-888.93	481.14	817.03	769.54	47.49	17.203	
6,800.00	6,771.41	6,782.53	6,764.57	24.56	23.68	71.59	-886.01	507.21	812.21	764.10	48.11	16.883	
6,900.00	6,870.47	6,873.99	6,846.14	24.95	23.93	69.45	-882.39	548.19	809.20	760.47	48.73	16.606	
6,957.51	6,927.45	6,919.73	6,884.23	25.17	24.06	68.02	-880.13	573.39	808.58	759.51	49.07	16.478	CC, ES
7,000.00	6,969.54	6,951.08	6,909.22	25.34	24.15	66.92	-878.51	592.25	808.97	759.65	49.32	16.403	
7,100.00	7,068.61	7,015.52	6,957.52	25.73	24.37	64.37	-875.13	634.72	813.56	763.66	49.90	16.305	SF
7,200.00	7,167.68	7,076.00	6,999.60	26.12	24.61	61.75	-872.48	678.07	824.48	774.00	50.48	16.332	
7,300.00	7,266.75	7,124.00	7,030.81	26.51	24.84	59.56	-870.99	714.50	842.43	791.38	51.05	16.501	
7,400.00	7,365.82	7,160.76	7,053.17	26.90	25.05	57.83	-870.31	743.66	867.80	816.20	51.60	16.818	
7,500.00	7,464.88	7,194.64	7,072.27	27.30	25.27	56.18	-869.98	771.64	900.69	848.55	52.14	17.274	
7,600.00	7,563.95	7,219.00	7,084.87	27.69	25.43	54.97	-869.94	792.49	941.00	888.36	52.64	17.877	
7,700.00	7,663.02	7,247.92	7,098.48	28.08	25.65	53.50	-870.06	818.00	988.14	934.97	53.17	18.584	
7,800.00	7,762.09	7,266.00	7,106.20	28.48	25.79	52.57	-870.20	834.35	1,041.57	987.92	53.64	19.417	
7,900.00	7,861.16	7,294.78	7,117.40	28.87	26.05	51.08	-870.42	860.85	1,100.33	1,046.15	54.19	20.306	
8,000.00	7,960.22	7,313.00	7,123.87	29.27	26.22	50.14	-870.50	877.88	1,163.80	1,109.13	54.66	21.290	
8,100.00	8,059.29	7,337.97	7,132.02	29.66	26.47	48.85	-870.52	901.48	1,231.29	1,176.09	55.19	22.309	
8,200.00	8,158.53	7,361.00	7,138.82	30.05	26.71	49.00	-870.42	923.49	1,302.92	1,247.10	55.82	23.343	
8,300.00	8,258.13	7,361.00	7,138.82	30.43	26.71	50.80	-870.42	923.49	1,379.12	1,322.82	56.31	24.493	
8,400.00	8,357.98	7,383.20	7,144.69	30.62	26.97	51.61	-870.19	944.89	1,459.05	1,402.30	56.75	25.710	
8,500.00	8,457.96	7,392.67	7,146.98	30.63	27.08	53.42	-870.04	954.08	1,542.39	1,485.47	56.93	27.095	
8,600.00	8,557.51	7,408.00	7,150.39	30.61	27.25	-98.37	-869.74	969.02	1,629.42	1,571.79	57.63	28.275	
8,700.00	8,654.16	7,408.00	7,150.39	30.55	27.25	-78.57	-869.74	969.02	1,718.77	1,661.22	57.55	29.866	
8,800.00	8,744.98	7,390.99	7,146.58	30.47	27.06	-59.46	-870.07	952.45	1,807.50	1,752.42	55.08	32.817	
8,900.00	8,827.19	7,380.51	7,144.02	30.38	26.94	-45.78	-870.23	942.29	1,893.26	1,842.70	50.55	37.451	
9,000.00	8,898.32	7,361.00	7,138.82	30.34	26.71	-36.36	-870.42	923.49	1,973.68	1,928.94	44.74	44.115	
9,100.00	8,956.18	7,361.00	7,138.82	30.42	26.71	-30.44	-870.42	923.49	2,046.88	2,008.00	38.87	52.655	
9,200.00	8,999.03	7,313.00	7,123.87	30.68	26.22	-25.93	-870.50	877.88	2,111.02	2,078.03	32.99	63.998	
9,300.00	9,025.57	7,313.00	7,123.87	31.20	26.22	-23.28	-870.50	877.88	2,164.66	2,135.66	29.00	74.640	
9,400.00	9,034.98	7,266.00	7,106.20	31.98	25.79	-21.26	-870.20	834.35	2,207.33	2,180.22	27.11	81.435	
9,500.00	9,035.00	7,266.00	7,106.20	32.99	25.79	-21.21	-870.20	834.35	2,244.41	2,216.89	27.52	81.549	
9,600.00	9,035.00	7,246.62	7,097.90	34.21	25.64	-21.12	-870.05	816.84	2,284.80	2,256.89	27.91	81.858	
9,700.00	9,035.00	7,219.00	7,084.87	35.62	25.43	-20.98	-869.94	792.49	2,328.36	2,300.04	28.31	82.231	
9,800.00	9,035.00	7,219.00	7,084.87	37.20	25.43	-20.98	-869.94	792.49	2,374.43	2,345.45	28.97	81.952	

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 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 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 - Cass 16 St. 4H - Wellbore #1 - As Drilled — **Offset Site Error:** 0.00 usft

Survey Program: 173-MWD — **Offset Well Error:** 0.00 usft

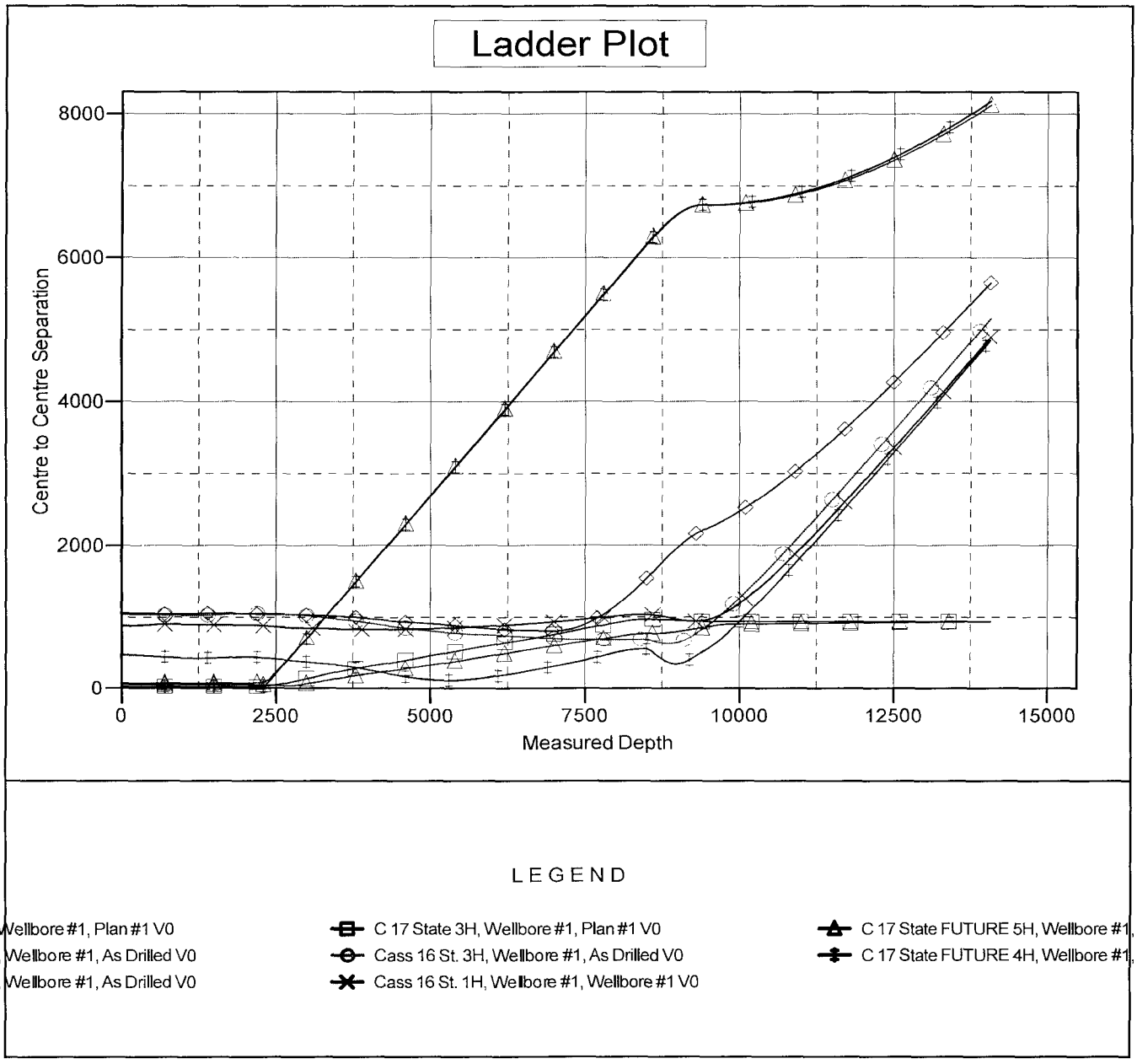
Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,900.00	9,035.00	7,219.00	7,084.87	38.92	25.43	-20.98	-869.94	792.49	2,423.75	2,394.06	29.69	81.626	
10,000.00	9,035.00	7,171.00	7,059.12	40.77	25.11	-20.74	-870.18	752.00	2,475.08	2,444.95	30.14	82.130	
10,100.00	9,035.00	7,171.00	7,059.12	42.72	25.11	-20.74	-870.18	752.00	2,528.75	2,497.80	30.95	81.698	
10,200.00	9,035.00	7,171.00	7,059.12	44.78	25.11	-20.74	-870.18	752.00	2,585.18	2,553.37	31.81	81.268	
10,300.00	9,035.00	7,124.00	7,030.81	46.91	24.84	-20.49	-870.99	714.50	2,643.35	2,610.97	32.38	81.647	
10,400.00	9,035.00	7,124.00	7,030.81	49.12	24.84	-20.49	-870.99	714.50	2,703.39	2,670.10	33.30	81.191	
10,500.00	9,035.00	7,103.34	7,017.62	51.39	24.74	-20.38	-871.54	698.61	2,765.42	2,731.32	34.10	81.091	
10,600.00	9,035.00	7,076.00	6,999.60	53.72	24.61	-20.23	-872.48	678.07	2,829.23	2,794.35	34.88	81.108	
10,700.00	9,035.00	7,076.00	6,999.60	56.09	24.61	-20.23	-872.48	678.07	2,894.53	2,858.66	35.87	80.689	
10,800.00	9,035.00	7,052.26	6,983.45	58.51	24.51	-20.11	-873.45	660.70	2,961.35	2,924.63	36.72	80.652	
10,900.00	9,035.00	7,029.00	6,967.17	60.96	24.42	-19.99	-874.49	644.12	3,029.68	2,992.10	37.58	80.628	
11,000.00	9,035.00	7,029.00	6,967.17	63.45	24.42	-19.99	-874.49	644.12	3,099.35	3,060.73	38.61	80.268	
11,100.00	9,035.00	7,007.18	6,951.48	65.97	24.34	-19.87	-875.54	628.99	3,170.27	3,130.76	39.51	80.247	
11,200.00	9,035.00	6,982.00	6,932.88	68.51	24.25	-19.74	-876.86	612.07	3,242.57	3,202.19	40.38	80.297	
11,300.00	9,035.00	6,982.00	6,932.88	71.08	24.25	-19.74	-876.86	612.07	3,315.85	3,274.40	41.45	79.999	
11,400.00	9,035.00	6,982.00	6,932.88	73.66	24.25	-19.74	-876.86	612.07	3,390.49	3,347.97	42.52	79.730	
11,500.00	9,035.00	6,960.38	6,916.44	76.27	24.18	-19.62	-878.02	598.09	3,465.97	3,422.53	43.44	79.779	
11,600.00	9,035.00	6,935.00	6,896.52	78.89	24.10	-19.49	-879.35	582.42	3,542.85	3,498.52	44.33	79.916	
11,700.00	9,035.00	6,935.00	6,896.52	81.53	24.10	-19.49	-879.35	582.42	3,620.28	3,574.85	45.43	79.697	
11,800.00	9,035.00	6,935.00	6,896.52	84.18	24.10	-19.49	-879.35	582.42	3,698.79	3,652.27	46.53	79.501	
11,900.00	9,035.00	6,935.00	6,896.52	86.84	24.10	-19.49	-879.35	582.42	3,778.32	3,730.69	47.63	79.324	
12,000.00	9,035.00	6,935.00	6,896.52	89.52	24.10	-19.49	-879.35	582.42	3,858.80	3,810.06	48.74	79.166	
12,100.00	9,035.00	6,887.00	6,857.16	92.20	23.97	-19.21	-881.76	555.07	3,939.87	3,890.45	49.43	79.710	
12,200.00	9,035.00	6,887.00	6,857.16	94.90	23.97	-19.21	-881.76	555.07	4,021.41	3,970.87	50.54	79.569	
12,300.00	9,035.00	6,887.00	6,857.16	97.60	23.97	-19.21	-881.76	555.07	4,103.77	4,052.11	51.66	79.442	
12,400.00	9,035.00	6,887.00	6,857.16	100.31	23.97	-19.21	-881.76	555.07	4,186.90	4,134.12	52.78	79.330	
12,500.00	9,035.00	6,887.00	6,857.16	103.03	23.97	-19.21	-881.76	555.07	4,270.75	4,216.84	53.90	79.230	
12,600.00	9,035.00	6,887.00	6,857.16	105.76	23.97	-19.21	-881.76	555.07	4,355.28	4,300.25	55.03	79.141	
12,700.00	9,035.00	6,865.93	6,839.23	108.49	23.91	-19.09	-882.76	544.05	4,440.03	4,384.09	55.95	79.363	
12,800.00	9,035.00	6,840.00	6,816.63	111.22	23.84	-18.94	-883.92	531.39	4,525.92	4,469.12	56.80	79.683	
12,900.00	9,035.00	6,840.00	6,816.63	113.97	23.84	-18.94	-883.92	531.39	4,611.77	4,553.84	57.93	79.613	
13,000.00	9,035.00	6,840.00	6,816.63	116.72	23.84	-18.94	-883.92	531.39	4,698.17	4,639.11	59.06	79.552	
13,100.00	9,035.00	6,840.00	6,816.63	119.47	23.84	-18.94	-883.92	531.39	4,785.11	4,724.91	60.19	79.499	
13,200.00	9,035.00	6,840.00	6,816.63	122.23	23.84	-18.94	-883.92	531.39	4,872.54	4,811.22	61.33	79.453	
13,300.00	9,035.00	6,840.00	6,816.63	124.99	23.84	-18.94	-883.92	531.39	4,960.45	4,897.99	62.46	79.414	
13,400.00	9,035.00	6,840.00	6,816.63	127.75	23.84	-18.94	-883.92	531.39	5,048.81	4,985.21	63.60	79.380	
13,500.00	9,035.00	6,840.00	6,816.63	130.52	23.84	-18.94	-883.92	531.39	5,137.60	5,072.86	64.74	79.353	
13,600.00	9,035.00	6,840.00	6,816.63	133.29	23.84	-18.94	-883.92	531.39	5,226.80	5,160.91	65.89	79.330	
13,700.00	9,035.00	6,816.45	6,795.62	136.07	23.77	-18.79	-884.86	520.80	5,315.81	5,249.08	66.73	79.661	
13,800.00	9,035.00	6,793.00	6,774.25	138.85	23.71	-18.64	-885.67	511.20	5,405.94	5,338.38	67.56	80.015	
13,900.00	9,035.00	6,793.00	6,774.25	141.63	23.71	-18.64	-885.67	511.20	5,495.87	5,427.17	68.70	79.999	
14,000.00	9,035.00	6,793.00	6,774.25	144.41	23.71	-18.64	-885.67	511.20	5,586.14	5,516.30	69.84	79.987	
14,077.15	9,035.00	6,793.00	6,774.25	146.56	23.71	-18.64	-885.67	511.20	5,656.01	5,585.29	70.72	79.980	

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 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 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 33 = @ 3187.00usft (N	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°

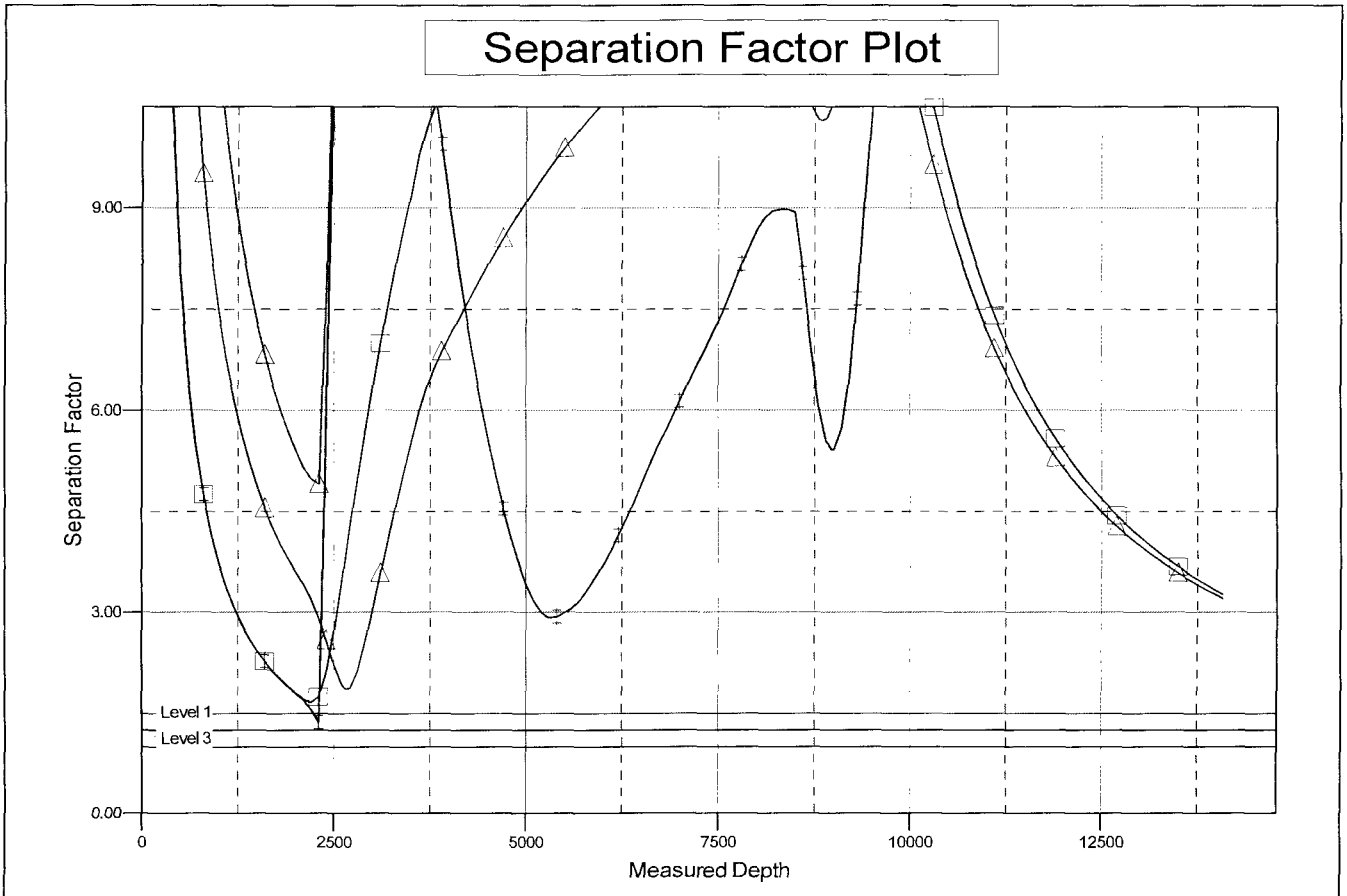


Scientific Drilling Int.

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 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 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 33 = @ 3187.00usft (N	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°



LEGEND

, Wellbore #1, Plan #1 V0

-I, Wellbore #1, As Drilled V0

-I, Wellbore #1, As Drilled V0

C 17 State 3H, 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, F

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