

WPX Energy

Eddy County, New Mexico (NAD 83)

Collie 35-34-22-27 Fee Pad

Collie 35-34-22-27 Fee 401H

API: 222

Wellbore #1

Plan #1 PH

30.015-45643

Anticollision Report

28 January, 2019



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Anticollision Report

Company:	WPX Energy	Local Co-ordinate Reference:	Well Collie 35-34-22-27 Fee 401H
Project:	Eddy County, New Mexico (NAD 83)	TVD Reference:	GL 3079 + KB 26 = @ 3105.00usft (HP 265)
Reference Site:	Collie 35-34-22-27 Fee Pad	MD Reference:	GL 3079 + KB 26 = @ 3105.00usft (HP 265)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Collie 35-34-22-27 Fee 401H	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 PH	Offset TVD Reference:	Offset Datum

Reference	Plan #1 PH		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	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 1/28/2019			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	10,313.48	Plan #1 PH (Wellbore #1)	MWD+HRGM+MS	OWSG MWD + HRGM + Multi-Station Correction

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Beagle 35-34-22-27 Fee Pad						
Beagle 35-34-22-27 Fee 401H - ST01 - Plan #2 ST01	2,500.00	2,500.00	25.01	7.53	1.431	Level 3, CC, ES, SF
Beagle 35-34-22-27 Fee 401H - Wellbore #1 - Plan #1 P	2,500.00	2,500.00	25.01	7.53	1.431	Level 3, CC, ES, SF
Collie 35-34-22-27 Fee Pad						
Collie 35-34-22-27 Fee 401H - ST01 - Plan #2 ST01	8,816.58	8,816.58	0.00	0.00	0.000	Level 1, CC, SF
Collie 35-34-22-27 Fee 401H - ST01 - Plan #2 ST01	8,900.00	8,899.99	0.44	-0.53	0.455	Level 1, ES

Offset Design													Offset Site Error: 0.00 usft
Beagle 35-34-22-27 Fee Pad - Beagle 35-34-22-27 Fee 401H - ST01 - Plan #2 ST01													Offset Well Error: 0.00 usft
Survey Program: 0-MWD+HRGM, 8800-MWD+HRGM													
Reference	Offset	Semi Major Axis		Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N-S (usft)	+E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-88.85	0.50	-25.00	25.01				
100.00	100.00	100.00	100.00	0.13	0.13	-88.85	0.50	-25.00	25.01	24.74	0.27	94.283	
200.00	200.00	200.00	200.00	0.49	0.49	-88.85	0.50	-25.00	25.01	24.02	0.98	25.458	
300.00	300.00	300.00	300.00	0.85	0.85	-88.85	0.50	-25.00	25.01	23.31	1.70	14.716	
400.00	400.00	400.00	400.00	1.21	1.21	-88.85	0.50	-25.00	25.01	22.59	2.42	10.349	
500.00	500.00	500.00	500.00	1.57	1.57	-88.85	0.50	-25.00	25.01	21.87	3.13	7.981	
600.00	600.00	600.00	600.00	1.92	1.92	-88.85	0.50	-25.00	25.01	21.16	3.85	6.495	
700.00	700.00	700.00	700.00	2.28	2.28	-88.85	0.50	-25.00	25.01	20.44	4.57	5.475	
800.00	800.00	800.00	800.00	2.64	2.64	-88.85	0.50	-25.00	25.01	19.72	5.28	4.732	
900.00	900.00	900.00	900.00	3.00	3.00	-88.85	0.50	-25.00	25.01	19.00	6.00	4.167	
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	-88.85	0.50	-25.00	25.01	18.29	6.72	3.722	
1,100.00	1,100.00	1,100.00	1,100.00	3.72	3.72	-88.85	0.50	-25.00	25.01	17.57	7.43	3.363	
1,200.00	1,200.00	1,200.00	1,200.00	4.08	4.08	-88.85	0.50	-25.00	25.01	16.85	8.15	3.067	
1,300.00	1,300.00	1,300.00	1,300.00	4.43	4.43	-88.85	0.50	-25.00	25.01	16.14	8.87	2.820	
1,400.00	1,400.00	1,400.00	1,400.00	4.79	4.79	-88.85	0.50	-25.00	25.01	15.42	9.59	2.609	
1,500.00	1,500.00	1,500.00	1,500.00	5.15	5.15	-88.85	0.50	-25.00	25.01	14.70	10.30	2.427	
1,600.00	1,600.00	1,600.00	1,600.00	5.51	5.51	-88.85	0.50	-25.00	25.01	13.99	11.02	2.269	
1,700.00	1,700.00	1,700.00	1,700.00	5.87	5.87	-88.85	0.50	-25.00	25.01	13.27	11.74	2.131	
1,800.00	1,800.00	1,800.00	1,800.00	6.23	6.23	-88.85	0.50	-25.00	25.01	12.55	12.45	2.008	
1,900.00	1,900.00	1,900.00	1,900.00	6.59	6.59	-88.85	0.50	-25.00	25.01	11.83	13.17	1.899	
2,000.00	2,000.00	2,000.00	2,000.00	6.94	6.94	-88.85	0.50	-25.00	25.01	11.12	13.89	1.801	

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

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Anticollision Report

Company: WPX Energy
Project: Eddy County, New Mexico (NAD 83)
Reference Site: Collie 35-34-22-27 Fee Pad
Site Error: 0.00 usft
Reference Well: Collie 35-34-22-27 Fee 401H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Plan #1 PH

Local Co-ordinate Reference: Well Collie 35-34-22-27 Fee 401H
TVD Reference: GL 3079 + KB 26 = @ 3105.00usft (HP 265)
MD Reference: GL 3079 + KB 26 = @ 3105.00usft (HP 265)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: Midland District
Offset TVD Reference: Offset Datum

Offset Design Beagle 35-34-22-27 Fee Pad - Beagle 35-34-22-27 Fee 401H - ST01 - Plan #2 ST01														Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM, 8600-MWD+HRGM														Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
2,100.00	2,100.00	2,100.00	2,100.00	7.30	7.30	-88.85	0.50	-25.00	25.01	10.40	14.60	1.712			
2,200.00	2,200.00	2,200.00	2,200.00	7.66	7.66	-88.85	0.50	-25.00	25.01	9.68	15.32	1.632			
2,300.00	2,300.00	2,300.00	2,300.00	8.02	8.02	-88.85	0.50	-25.00	25.01	8.97	16.04	1.559			
2,400.00	2,400.00	2,400.00	2,400.00	8.38	8.38	-88.85	0.50	-25.00	25.01	8.25	16.75	1.482 Level 3			
2,500.00	2,500.00	2,500.00	2,500.00	8.74	8.74	-88.85	0.50	-25.00	25.01	7.53	17.47	1.431 Level 3, CC, ES, SF			
2,600.00	2,600.00	2,599.19	2,599.17	9.09	9.08	-90.56	-0.26	-26.54	26.55	8.39	18.16	1.462 Level 3			
2,700.00	2,700.00	2,698.15	2,697.99	9.45	9.41	-94.65	-2.53	-31.14	31.31	12.48	18.82	1.663			
2,800.00	2,798.98	2,796.59	2,796.06	9.81	9.74	-81.73	-6.30	-38.75	39.17	19.72	19.46	2.013			
2,900.00	2,899.84	2,895.68	2,894.59	10.17	10.08	-90.68	-10.97	-48.22	49.37	29.24	20.13	2.452			
3,000.00	2,999.45	2,994.63	2,992.97	10.53	10.42	-99.64	-15.65	-57.69	60.90	40.08	20.82	2.925			
3,100.00	3,098.70	3,093.16	3,090.94	10.88	10.76	-108.12	-20.31	-67.12	74.50	52.99	21.52	3.462			
3,200.00	3,197.47	3,191.17	3,188.39	11.24	11.11	-115.79	-24.95	-76.49	90.75	68.53	22.22	4.084			
3,300.00	3,295.62	3,288.54	3,285.20	11.60	11.45	-122.48	-29.55	-85.81	110.01	87.08	22.93	4.798			
3,400.00	3,393.06	3,385.14	3,381.26	11.97	11.79	-128.24	-34.12	-95.05	132.50	108.87	23.83	5.607			
3,500.00	3,489.64	3,480.87	3,476.43	12.34	12.14	-133.10	-38.64	-104.21	158.33	134.00	24.34	6.506			
3,600.00	3,585.27	3,575.60	3,570.62	12.72	12.47	-137.20	-43.12	-113.28	187.54	162.50	25.04	7.489			
3,692.53	3,672.79	3,662.26	3,656.79	13.09	12.79	-140.41	-47.22	-121.57	217.55	191.87	25.69	8.470			
3,700.00	3,679.82	3,669.22	3,663.70	13.12	12.81	-140.68	-47.55	-122.24	220.09	194.35	25.74	8.551			
3,800.00	3,773.88	3,762.33	3,756.28	13.52	13.15	-143.79	-51.95	-131.15	254.48	228.04	26.43	9.627			
3,900.00	3,867.94	3,855.44	3,848.86	13.94	13.49	-146.17	-56.35	-140.06	289.37	262.24	27.13	10.667			
4,000.00	3,961.99	3,948.55	3,941.44	14.36	13.83	-148.03	-60.76	-148.97	324.61	296.79	27.83	11.665			
4,100.00	4,056.05	4,041.66	4,034.02	14.80	14.17	-149.54	-65.16	-157.88	360.10	331.57	28.53	12.622			
4,200.00	4,150.11	4,134.78	4,126.60	15.24	14.51	-150.77	-69.56	-166.78	395.77	366.53	29.23	13.538			
4,300.00	4,244.17	4,227.89	4,219.19	15.69	14.85	-151.80	-73.97	-175.69	431.57	401.62	29.94	14.414			
4,400.00	4,338.23	4,321.00	4,311.77	16.14	15.19	-152.68	-78.37	-184.60	467.47	436.82	30.65	15.251			
4,500.00	4,432.28	4,414.11	4,404.35	16.60	15.54	-153.42	-82.77	-193.51	503.45	472.09	31.36	16.052			
4,600.00	4,526.34	4,507.23	4,496.93	17.07	15.88	-154.07	-87.17	-202.42	539.50	507.42	32.08	16.817			
4,700.00	4,620.40	4,600.34	4,589.51	17.54	16.23	-154.64	-91.58	-211.33	575.61	542.81	32.80	17.549			
4,800.00	4,714.46	4,693.45	4,682.09	18.01	16.58	-155.14	-95.98	-220.24	611.75	578.23	33.52	18.250			
4,900.00	4,808.52	4,786.56	4,774.67	18.49	16.92	-155.59	-100.38	-229.15	647.94	613.69	34.24	18.921			
5,000.00	4,902.57	4,879.67	4,867.25	18.98	17.27	-155.99	-104.78	-238.06	684.15	649.18	34.97	19.564			
5,100.00	4,996.63	4,972.79	4,959.83	19.46	17.62	-156.35	-109.19	-246.97	720.39	684.69	35.70	20.180			
5,200.00	5,090.69	5,065.90	5,052.41	19.96	17.97	-156.67	-113.59	-255.88	756.65	720.22	36.43	20.771			
5,300.00	5,184.75	5,159.01	5,144.99	20.45	18.32	-156.87	-117.99	-264.79	792.93	755.77	37.16	21.338			
5,400.00	5,278.81	5,252.12	5,237.57	20.95	18.67	-157.23	-122.39	-273.70	829.23	791.34	37.89	21.883			
5,500.00	5,372.87	5,345.24	5,330.15	21.44	19.02	-157.48	-126.80	-282.61	865.54	826.91	38.63	22.407			
5,600.00	5,466.92	5,438.35	5,422.73	21.95	19.37	-157.71	-131.20	-291.52	901.87	862.50	39.37	22.910			
5,700.00	5,560.98	5,531.46	5,515.31	22.45	19.72	-157.92	-135.60	-300.43	938.21	898.10	40.10	23.394			
5,800.00	5,655.04	5,624.57	5,607.89	22.96	20.07	-158.11	-140.01	-309.34	974.55	933.71	40.84	23.860			
5,900.00	5,749.10	5,717.68	5,700.47	23.46	20.42	-158.29	-144.41	-318.25	1,010.91	969.32	41.59	24.309			
6,000.00	5,843.16	5,810.80	5,793.05	23.97	20.78	-158.46	-148.81	-327.16	1,047.27	1,004.94	42.33	24.741			
6,100.00	5,937.21	5,903.91	5,885.63	24.49	21.13	-158.61	-153.21	-336.07	1,083.64	1,040.57	43.07	25.159			
6,200.00	6,031.27	5,997.02	5,978.21	25.00	21.48	-158.76	-157.62	-344.98	1,120.02	1,078.20	43.82	25.561			
6,300.00	6,125.33	6,090.13	6,070.79	25.52	21.84	-158.89	-162.02	-353.89	1,156.40	1,111.84	44.56	25.949			
6,400.00	6,219.39	6,183.25	6,163.37	26.03	22.19	-159.02	-166.42	-362.80	1,192.79	1,147.48	45.31	26.324			
6,500.00	6,313.45	6,276.36	6,255.95	26.55	22.54	-159.14	-170.82	-371.71	1,229.18	1,183.12	46.06	26.687			
6,600.00	6,407.51	6,369.47	6,348.53	27.07	22.90	-159.26	-175.23	-380.62	1,265.58	1,218.77	46.81	27.037			
6,620.95	6,427.21	6,388.98	6,367.93	27.18	22.97	-159.28	-176.15	-382.48	1,273.21	1,226.24	46.97	27.109			
6,700.00	6,501.92	6,462.95	6,441.48	27.58	23.25	-159.56	-179.65	-389.56	1,301.03	1,253.47	47.56	27.356			
6,800.00	6,597.41	6,557.54	6,535.53	28.08	23.61	-159.82	-184.12	-398.61	1,333.47	1,285.16	48.31	27.601			
6,900.00	6,693.88	6,653.13	6,630.58	28.55	23.98	-160.01	-188.64	-407.76	1,362.79	1,313.73	49.06	27.775			
7,000.00	6,791.20	6,749.63	6,726.52	29.00	24.35	-160.12	-193.20	-416.99	1,388.97	1,339.15	49.82	27.881			

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 Well Error: 0.00 usft
 Reference Wellbore: Wellbore #1
 Reference Design: Plan #1 PH

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 Survey Calculation Method: Minimum Curvature
 Output errors are at 2.00 sigma
 Database: Midland District
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Offset Design Beagle 35-34-22-27 Fee Pad - Beagle 35-34-22-27 Fee 401H - ST01 - Plan #2 ST01													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HRGM, 8600-MWD+HRGM													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance				Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
7,100.00	6,889.27	6,846.90	6,823.24	29.43	24.72	-160.16	-197.80	-426.30	1,411.96	1,361.40	50.57	27.922	
7,200.00	6,987.96	6,944.83	6,920.61	29.84	25.09	-160.13	-202.43	-435.67	1,431.76	1,380.45	51.31	27.902	
7,300.00	7,087.15	7,043.30	7,018.52	30.22	25.47	-160.04	-207.09	-445.09	1,448.35	1,396.29	52.06	27.823	
7,400.00	7,186.72	7,142.20	7,116.85	30.58	25.65	-159.88	-211.76	-454.56	1,461.71	1,408.92	52.79	27.688	
7,500.00	7,286.55	7,241.39	7,215.47	30.91	26.22	-159.65	-216.45	-464.05	1,471.86	1,418.34	53.52	27.501	
7,600.00	7,386.52	7,347.00	7,320.49	31.23	26.63	-159.34	-221.39	-474.05	1,478.75	1,424.46	54.29	27.239	
7,813.48	7,400.00	7,364.57	7,337.98	31.27	26.69	-179.11	-222.13	-475.54	1,479.36	1,424.94	54.42	27.186	
7,700.00	7,486.52	7,477.80	7,450.91	31.52	27.11	-178.83	-225.73	-482.82	1,482.22	1,426.99	55.22	26.840	
7,800.00	7,586.52	7,609.22	7,582.27	31.82	27.58	-178.70	-227.43	-486.25	1,483.56	1,427.45	56.12	26.437	
7,900.00	7,686.52	7,713.48	7,686.52	32.12	27.93	-178.70	-227.45	-486.30	1,483.58	1,426.77	56.81	26.115	
8,000.00	7,786.52	7,813.48	7,786.52	32.43	28.28	-178.70	-227.45	-486.30	1,483.58	1,426.11	57.48	25.812	
8,100.00	7,886.52	7,913.48	7,886.52	32.73	28.60	-178.70	-227.45	-486.30	1,483.58	1,425.44	58.14	25.516	
8,200.00	7,986.52	8,013.48	7,986.52	33.03	28.93	-178.70	-227.45	-486.30	1,483.58	1,424.77	58.81	25.225	
8,300.00	8,086.52	8,113.48	8,086.52	33.34	29.27	-178.70	-227.45	-486.30	1,483.58	1,424.10	59.48	24.941	
8,400.00	8,186.52	8,213.48	8,186.52	33.64	29.61	-178.70	-227.45	-486.30	1,483.58	1,423.43	60.16	24.663	
8,500.00	8,286.52	8,313.48	8,286.52	33.95	29.94	-178.70	-227.45	-486.30	1,483.58	1,422.75	60.83	24.390	
8,600.00	8,386.52	8,413.48	8,386.52	34.26	30.28	-178.70	-227.45	-486.30	1,483.58	1,422.08	61.50	24.123	
8,700.00	8,486.52	8,513.48	8,486.52	34.57	30.60	-178.70	-227.45	-486.30	1,483.58	1,421.43	62.15	23.870	
8,704.37	8,490.90	8,517.85	8,490.90	34.58	30.61	-178.70	-227.45	-486.30	1,483.58	1,421.41	62.18	23.861	
8,800.00	8,586.52	8,613.48	8,586.52	34.88	30.75	-178.70	-227.45	-486.30	1,483.58	1,420.95	62.64	23.686	
8,801.50	8,588.02	8,614.98	8,588.02	34.88	30.75	-178.70	-227.45	-486.30	1,483.58	1,420.94	62.64	23.684	
8,900.00	8,686.52	8,711.80	8,684.84	35.19	30.75	-178.69	-227.45	-486.68	1,483.59	1,420.62	62.97	23.559	
9,000.00	8,786.52	8,802.93	8,775.27	35.50	30.78	-178.28	-227.54	-497.20	1,484.00	1,420.67	63.33	23.434	
9,100.00	8,886.52	8,888.71	8,857.86	35.81	30.85	-177.40	-227.73	-520.08	1,485.29	1,421.58	63.71	23.315	
9,200.00	8,986.52	8,966.21	8,928.79	36.13	30.94	-176.20	-227.99	-551.13	1,488.12	1,424.05	64.07	23.226	
9,300.00	9,086.52	9,034.17	8,987.06	36.44	31.05	-174.86	-228.28	-586.04	1,493.33	1,428.94	64.39	23.193	
9,400.00	9,186.52	9,100.00	9,039.18	36.76	31.19	-173.33	-228.61	-626.19	1,501.72	1,437.06	64.66	23.224	
9,500.00	9,286.52	9,150.00	9,075.50	37.07	31.32	-172.03	-228.90	-660.53	1,513.91	1,449.15	64.76	23.377	
9,600.00	9,386.52	9,185.14	9,099.17	37.39	31.44	-171.05	-229.11	-686.50	1,530.38	1,465.75	64.63	23.679	
9,700.00	9,486.52	9,221.38	9,121.86	37.71	31.57	-169.99	-229.35	-714.74	1,551.51	1,487.12	64.39	24.094	
9,800.00	9,586.52	9,250.00	9,138.49	38.03	31.68	-169.12	-229.54	-738.03	1,577.42	1,513.47	63.95	24.665	
9,900.00	9,686.52	9,279.12	9,154.19	38.35	31.81	-168.22	-229.74	-762.55	1,608.14	1,544.71	63.42	25.356	
10,000.00	9,786.52	9,300.00	9,184.68	38.66	31.91	-167.55	-229.89	-780.60	1,643.59	1,580.91	62.68	26.221	
10,100.00	9,886.52	9,322.47	9,175.22	38.99	32.03	-166.83	-230.06	-800.45	1,683.61	1,621.72	61.89	27.202	
10,200.00	9,986.52	9,350.00	9,187.06	39.31	32.18	-165.92	-230.27	-825.30	1,728.08	1,666.98	61.11	28.277	
10,300.00	10,086.52	9,350.00	9,187.06	39.63	32.18	-165.92	-230.27	-825.30	1,776.55	1,716.66	59.90	29.660	
10,313.48	10,100.00	9,350.00	9,187.06	39.67	32.18	-165.92	-230.27	-825.30	1,783.42	1,723.68	59.73	29.857	

Scientific Drilling, Intl

Anticollision Report

Company: WPX Energy
 Project: Eddy County, New Mexico (NAD 83)
 Reference Site: Collie 35-34-22-27 Fee Pad
 Site Error: 0.00 usft
 Reference Well: Collie 35-34-22-27 Fee 401H
 Well Error: 0.00 usft
 Reference Wellbore: Wellbore #1
 Reference Design: Plan #1 PH

Local Co-ordinate Reference: Well Collie 35-34-22-27 Fee 401H
 TVD Reference: GL 3079 + KB 26 = @ 3105.00usft (HP 265)
 MD Reference: GL 3079 + KB 26 = @ 3105.00usft (HP 265)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Output errors are at: 2.00 sigma
 Database: Midland District
 Offset TVD Reference: Offset Datum

Offset Design Beagle 35-34-22-27 Fee Pad - Beagle 35-34-22-27 Fee 401H - Wellbore #1 - Plan #1 PH													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.00	0.00	0.00	0.00	0.00	0.00	-88.85	0.50	-25.00	25.01					
100.00	100.00	100.00	100.00	0.13	0.13	-88.85	0.50	-25.00	25.01	24.74	0.27	94.263		
200.00	200.00	200.00	200.00	0.49	0.49	-88.85	0.50	-25.00	25.01	24.02	0.98	25.458		
300.00	300.00	300.00	300.00	0.85	0.85	-88.85	0.50	-25.00	25.01	23.31	1.70	14.716		
400.00	400.00	400.00	400.00	1.21	1.21	-88.85	0.50	-25.00	25.01	22.59	2.42	10.349		
500.00	500.00	500.00	500.00	1.57	1.57	-88.85	0.50	-25.00	25.01	21.87	3.13	7.981		
600.00	600.00	600.00	600.00	1.92	1.92	-88.85	0.50	-25.00	25.01	21.16	3.85	6.495		
700.00	700.00	700.00	700.00	2.28	2.28	-88.85	0.50	-25.00	25.01	20.44	4.57	5.475		
800.00	800.00	800.00	800.00	2.64	2.64	-88.85	0.50	-25.00	25.01	19.72	5.28	4.732		
900.00	900.00	900.00	900.00	3.00	3.00	-88.85	0.50	-25.00	25.01	19.00	6.00	4.167		
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	-88.85	0.50	-25.00	25.01	18.29	6.72	3.722		
1,100.00	1,100.00	1,100.00	1,100.00	3.72	3.72	-88.85	0.50	-25.00	25.01	17.57	7.43	3.363		
1,200.00	1,200.00	1,200.00	1,200.00	4.08	4.08	-88.85	0.50	-25.00	25.01	16.85	8.15	3.067		
1,300.00	1,300.00	1,300.00	1,300.00	4.43	4.43	-88.85	0.50	-25.00	25.01	16.14	8.87	2.820		
1,400.00	1,400.00	1,400.00	1,400.00	4.79	4.79	-88.85	0.50	-25.00	25.01	15.42	9.59	2.609		
1,500.00	1,500.00	1,500.00	1,500.00	5.15	5.15	-88.85	0.50	-25.00	25.01	14.70	10.30	2.427		
1,600.00	1,600.00	1,600.00	1,600.00	5.51	5.51	-88.85	0.50	-25.00	25.01	13.99	11.02	2.269		
1,700.00	1,700.00	1,700.00	1,700.00	5.87	5.87	-88.85	0.50	-25.00	25.01	13.27	11.74	2.131		
1,800.00	1,800.00	1,800.00	1,800.00	6.23	6.23	-88.85	0.50	-25.00	25.01	12.55	12.45	2.008		
1,900.00	1,900.00	1,900.00	1,900.00	6.59	6.59	-88.85	0.50	-25.00	25.01	11.83	13.17	1.899		
2,000.00	2,000.00	2,000.00	2,000.00	6.94	6.94	-88.85	0.50	-25.00	25.01	11.12	13.89	1.801		
2,100.00	2,100.00	2,100.00	2,100.00	7.30	7.30	-88.85	0.50	-25.00	25.01	10.40	14.60	1.712		
2,200.00	2,200.00	2,200.00	2,200.00	7.66	7.66	-88.85	0.50	-25.00	25.01	9.68	15.32	1.632		
2,300.00	2,300.00	2,300.00	2,300.00	8.02	8.02	-88.85	0.50	-25.00	25.01	8.97	16.04	1.559		
2,400.00	2,400.00	2,400.00	2,400.00	8.38	8.38	-88.85	0.50	-25.00	25.01	8.25	16.75	1.492 Level 3		
2,500.00	2,500.00	2,500.00	2,500.00	8.74	8.74	-88.85	0.50	-25.00	25.01	7.53	17.47	1.431 Level 3, CC, ES, SF		
2,600.00	2,600.00	2,599.19	2,599.17	9.09	9.08	-90.56	-0.26	-26.54	26.55	8.39	18.16	1.462 Level 3		
2,700.00	2,700.00	2,698.15	2,697.99	9.45	9.41	-94.65	-2.53	-31.14	31.31	12.48	18.82	1.663		
2,800.00	2,799.98	2,796.59	2,796.06	9.81	9.74	-81.73	-6.30	-38.75	39.17	19.72	19.46	2.013		
2,900.00	2,899.84	2,895.68	2,894.59	10.17	10.08	-90.68	-10.97	-48.22	49.37	29.24	20.13	2.452		
3,000.00	2,999.45	2,994.63	2,992.97	10.53	10.42	-99.64	-15.65	-57.69	60.90	40.08	20.82	2.925		
3,100.00	3,098.70	3,093.16	3,090.94	10.88	10.76	-108.12	-20.31	-67.12	74.50	52.99	21.52	3.462		
3,200.00	3,197.47	3,191.17	3,188.39	11.24	11.11	-115.79	-24.95	-76.49	90.75	68.53	22.22	4.084		
3,300.00	3,295.62	3,288.54	3,285.20	11.60	11.45	-122.49	-29.55	-85.81	110.01	87.08	22.93	4.798		
3,400.00	3,393.06	3,385.14	3,381.26	11.97	11.79	-128.24	-34.12	-95.05	132.50	108.87	23.63	5.607		
3,500.00	3,489.84	3,480.87	3,476.43	12.34	12.14	-133.10	-38.64	-104.21	158.33	134.00	24.34	6.506		
3,600.00	3,585.27	3,575.60	3,570.62	12.72	12.47	-137.20	-43.12	-113.28	187.54	162.50	25.04	7.489		
3,692.53	3,672.79	3,662.26	3,656.79	13.09	12.79	-140.41	-47.22	-121.57	217.55	191.87	25.69	8.470		
3,700.00	3,679.82	3,669.22	3,663.70	13.12	12.81	-140.68	-47.55	-122.24	220.09	194.35	25.74	8.551		
3,800.00	3,773.88	3,762.33	3,758.28	13.52	13.15	-143.79	-51.95	-131.15	254.48	228.04	26.43	9.827		
3,900.00	3,867.94	3,855.44	3,848.86	13.94	13.49	-148.17	-56.35	-140.06	289.37	262.24	27.13	10.667		
4,000.00	3,961.99	3,948.55	3,941.44	14.36	13.83	-148.03	-60.76	-148.97	324.61	296.79	27.83	11.665		
4,100.00	4,056.05	4,041.66	4,034.02	14.80	14.17	-149.54	-65.16	-157.88	360.10	331.57	28.53	12.622		
4,200.00	4,150.11	4,134.78	4,126.60	15.24	14.51	-150.77	-69.58	-166.78	395.77	366.53	29.23	13.538		
4,300.00	4,244.17	4,227.89	4,219.19	15.69	14.85	-151.80	-73.97	-175.69	431.57	401.62	29.94	14.414		
4,400.00	4,338.23	4,321.00	4,311.77	16.14	15.19	-152.68	-78.37	-184.60	467.47	436.82	30.65	15.251		
4,500.00	4,432.28	4,414.11	4,404.35	16.60	15.54	-153.42	-82.77	-193.51	503.45	472.09	31.36	16.052		
4,600.00	4,526.34	4,507.23	4,496.93	17.07	15.88	-154.07	-87.17	-202.42	539.50	507.42	32.08	16.817		
4,700.00	4,620.40	4,600.34	4,589.51	17.54	16.23	-154.64	-91.58	-211.33	575.61	542.81	32.80	17.549		
4,800.00	4,714.46	4,693.45	4,682.09	18.01	16.58	-155.14	-95.98	-220.24	611.75	578.23	33.52	18.250		
4,900.00	4,808.52	4,786.56	4,774.67	18.49	16.92	-155.59	-100.38	-229.15	647.94	613.69	34.24	18.921		
5,000.00	4,902.57	4,879.67	4,867.25	18.98	17.27	-155.99	-104.78	-238.06	684.15	649.18	34.97	19.564		

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

Scientific Drilling, Intl

Anticollision Report

Company: WPX Energy
Project: Eddy County, New Mexico (NAD 83)
Reference Site: Collie 35-34-22-27 Fee Pad
Site Error: 0.00 usft
Reference Well: Collie 35-34-22-27 Fee 401H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Plan #1 PH

Local Co-ordinate Reference: Well Collie 35-34-22-27 Fee 401H
TVD Reference: GL 3079 + KB 26 = @ 3105.00usft (HP 265)
MD Reference: GL 3079 + KB 26 = @ 3105.00usft (HP 265)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: Midland District
Offset TVD Reference: Offset Datum

Offset Design Beagle 35-34-22-27 Fee Pad - Beagle 35-34-22-27 Fee 401H - Wellbore #1 - Plan #1 PH													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,996.63	4,972.79	4,959.83	19.46	17.62	-156.35	-109.19	-246.97	720.39	684.69	35.70	20.180		
5,200.00	5,090.69	5,065.90	5,052.41	19.96	17.97	-156.67	-113.59	-255.88	756.65	720.22	36.43	20.771		
5,300.00	5,184.75	5,159.01	5,144.99	20.45	18.32	-156.97	-117.99	-264.78	792.93	755.77	37.16	21.338		
5,400.00	5,278.81	5,252.12	5,237.57	20.95	18.67	-157.23	-122.39	-273.70	829.23	791.34	37.89	21.883		
5,500.00	5,372.87	5,345.24	5,330.15	21.44	19.02	-157.48	-126.80	-282.61	865.54	826.92	38.63	22.407		
5,600.00	5,466.92	5,438.35	5,422.73	21.95	19.37	-157.71	-131.20	-291.52	901.87	862.50	39.37	22.910		
5,700.00	5,560.98	5,531.46	5,515.31	22.45	19.72	-157.92	-135.60	-300.43	938.21	898.10	40.10	23.394		
5,800.00	5,655.04	5,624.57	5,607.89	22.96	20.07	-158.11	-140.01	-309.34	974.55	933.71	40.84	23.860		
5,900.00	5,749.10	5,717.68	5,700.47	23.46	20.42	-158.29	-144.41	-318.25	1,010.91	969.32	41.58	24.309		
6,000.00	5,843.16	5,810.80	5,793.05	23.97	20.78	-158.46	-148.81	-327.16	1,047.27	1,004.94	42.33	24.741		
6,100.00	5,937.21	5,903.91	5,885.63	24.49	21.13	-158.61	-153.21	-336.07	1,083.64	1,040.57	43.07	25.159		
6,200.00	6,031.27	5,997.02	5,978.21	25.00	21.48	-158.76	-157.62	-344.98	1,120.02	1,076.20	43.82	25.561		
6,300.00	6,125.33	6,090.13	6,070.79	25.52	21.84	-158.89	-162.02	-353.89	1,156.40	1,111.84	44.56	25.949		
6,400.00	6,219.39	6,183.25	6,163.37	26.03	22.19	-159.02	-166.42	-362.80	1,192.79	1,147.48	45.31	26.324		
6,500.00	6,313.45	6,276.36	6,255.95	26.55	22.54	-159.14	-170.82	-371.71	1,229.18	1,183.12	46.06	26.687		
6,600.00	6,407.51	6,369.47	6,348.53	27.07	22.90	-159.26	-175.23	-380.62	1,265.58	1,218.77	46.81	27.037		
6,620.95	6,427.21	6,388.98	6,367.93	27.18	22.97	-159.28	-176.15	-382.48	1,273.21	1,226.24	46.97	27.109		
6,700.00	6,501.92	6,462.95	6,441.48	27.58	23.25	-159.56	-179.65	-389.56	1,301.03	1,253.47	47.56	27.356		
6,800.00	6,597.41	6,557.54	6,535.53	28.08	23.61	-159.82	-184.12	-398.61	1,333.47	1,285.16	48.31	27.601		
6,900.00	6,693.88	6,653.13	6,630.58	28.55	23.98	-160.01	-188.64	-407.76	1,362.79	1,313.73	49.06	27.775		
7,000.00	6,791.20	6,749.63	6,726.52	29.00	24.35	-160.12	-193.20	-416.99	1,388.97	1,339.15	49.82	27.881		
7,100.00	6,889.27	6,846.90	6,823.24	29.43	24.72	-160.16	-197.80	-426.30	1,411.96	1,361.40	50.57	27.922		
7,200.00	6,987.96	6,944.83	6,920.81	29.84	25.09	-160.13	-202.43	-435.67	1,431.76	1,380.45	51.31	27.902		
7,300.00	7,087.15	7,043.30	7,018.52	30.22	25.47	-160.04	-207.09	-445.09	1,448.35	1,396.29	52.06	27.823		
7,400.00	7,186.72	7,142.20	7,116.85	30.58	25.85	-159.88	-211.76	-454.56	1,461.71	1,408.92	52.79	27.688		
7,500.00	7,286.55	7,241.39	7,215.47	30.91	26.22	-159.65	-216.45	-464.05	1,471.86	1,418.34	53.52	27.501		
7,600.00	7,386.52	7,341.00	7,320.49	31.23	26.63	-159.34	-221.39	-474.05	1,478.75	1,424.46	54.29	27.239		
7,613.48	7,400.00	7,364.57	7,337.98	31.27	26.69	-179.11	-222.13	-475.54	1,479.36	1,424.94	54.42	27.186		
7,700.00	7,486.52	7,477.80	7,450.91	31.52	27.11	-178.83	-225.73	-482.82	1,482.22	1,426.99	55.22	26.840		
7,800.00	7,586.52	7,609.22	7,582.27	31.82	27.58	-178.70	-227.43	-486.25	1,483.56	1,427.45	56.12	26.437		
7,900.00	7,686.52	7,713.48	7,686.52	32.12	27.93	-178.70	-227.45	-486.30	1,483.58	1,426.77	56.81	26.116		
8,000.00	7,786.52	7,813.48	7,786.52	32.43	28.26	-178.70	-227.45	-486.30	1,483.58	1,426.11	57.48	25.812		
8,100.00	7,886.52	7,913.48	7,886.52	32.73	28.60	-178.70	-227.45	-486.30	1,483.58	1,425.44	58.14	25.516		
8,200.00	7,986.52	8,013.48	7,986.52	33.03	28.93	-178.70	-227.45	-486.30	1,483.58	1,424.77	58.81	25.225		
8,300.00	8,086.52	8,113.48	8,086.52	33.34	29.27	-178.70	-227.45	-486.30	1,483.58	1,424.10	59.48	24.941		
8,400.00	8,186.52	8,213.48	8,186.52	33.64	29.61	-178.70	-227.45	-486.30	1,483.58	1,423.43	60.16	24.663		
8,500.00	8,286.52	8,313.48	8,286.52	33.95	29.94	-178.70	-227.45	-486.30	1,483.58	1,422.75	60.83	24.390		
8,600.00	8,386.52	8,413.48	8,386.52	34.26	30.28	-178.70	-227.45	-486.30	1,483.58	1,422.08	61.50	24.123		
8,700.00	8,486.52	8,513.48	8,486.52	34.57	30.62	-178.70	-227.45	-486.30	1,483.58	1,421.41	62.18	23.861		
8,800.00	8,586.52	8,613.48	8,586.52	34.88	30.96	-178.70	-227.45	-486.30	1,483.58	1,420.73	62.85	23.605		
8,900.00	8,686.52	8,713.48	8,686.52	35.19	31.30	-178.70	-227.45	-486.30	1,483.58	1,420.05	63.53	23.353		
9,000.00	8,786.52	8,813.48	8,786.52	35.50	31.64	-178.70	-227.45	-486.30	1,483.58	1,419.38	64.21	23.107		
9,100.00	8,886.52	8,913.48	8,886.52	35.81	31.98	-178.70	-227.45	-486.30	1,483.58	1,418.70	64.88	22.865		
9,200.00	8,986.52	9,013.48	8,986.52	36.13	32.32	-178.70	-227.45	-486.30	1,483.58	1,418.02	65.56	22.629		
9,300.00	9,086.52	9,113.48	9,086.52	36.44	32.66	-178.70	-227.45	-486.30	1,483.58	1,417.34	66.24	22.396		
9,400.00	9,186.52	9,213.48	9,186.52	36.76	33.00	-178.70	-227.45	-486.30	1,483.58	1,416.66	66.92	22.169		
9,500.00	9,286.52	9,313.48	9,286.52	37.07	33.34	-178.70	-227.45	-486.30	1,483.58	1,415.98	67.60	21.945		
9,600.00	9,386.52	9,413.48	9,386.52	37.39	33.69	-178.70	-227.45	-486.30	1,483.58	1,415.30	68.29	21.726		
9,700.00	9,486.52	9,513.48	9,486.52	37.71	34.03	-178.70	-227.45	-486.30	1,483.58	1,414.61	68.97	21.511		
9,800.00	9,586.52	9,613.48	9,586.52	38.03	34.37	-178.70	-227.45	-486.30	1,483.58	1,413.93	69.65	21.300		
9,900.00	9,686.52	9,713.48	9,686.52	38.35	34.71	-178.70	-227.45	-486.30	1,483.58	1,413.25	70.34	21.093		
10,000.00	9,786.52	9,813.48	9,786.52	38.66	35.06	-178.70	-227.45	-486.30	1,483.58	1,412.56	71.02	20.889		

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

Scientific Drilling, Intl

Anticollision Report

Company: WPX Energy
Project: Eddy County, New Mexico (NAD 83)
Reference Site: Collie 35-34-22-27 Fee Pad
Site Error: 0.00 usft
Reference Well: Collie 35-34-22-27 Fee 401H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Plan #1 PH

Local Co-ordinate Reference: Well Collie 35-34-22-27 Fee 401H
TVD Reference: GL 3079 + KB 26 = @ 3105.00usft (HP 265)
MD Reference: GL 3079 + KB 26 = @ 3105.00usft (HP 265)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: Midland District
Offset TVD Reference: Offset Datum

Offset Design Beagle 35-34-22-27 Fee Pad - Beagle 35-34-22-27 Fee 401H - Wellbore #1 - Plan #1 PH													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,100.00	9,886.52	9,913.48	9,886.52	38.99	35.40	-178.70	-227.45	-486.30	1,483.58	1,411.88	71.71	20.690		
10,200.00	9,986.52	10,013.48	9,986.52	39.31	35.74	-178.70	-227.45	-486.30	1,483.58	1,411.19	72.39	20.494		
10,300.00	10,086.52	10,113.48	10,086.52	39.63	36.09	-178.70	-227.45	-486.30	1,483.58	1,410.50	73.08	20.301		
10,313.48	10,100.00	10,126.95	10,100.00	39.67	36.13	-178.70	-227.45	-486.30	1,483.58	1,410.41	73.17	20.276		

Scientific Drilling, Intl

Anticollision Report

Company: WPX Energy
Project: Eddy County, New Mexico (NAD 83)
Reference Site: Collie 35-34-22-27 Fee Pad
Site Error: 0.00 usft
Reference Well: Collie 35-34-22-27 Fee 401H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Plan #1 PH

Local Co-ordinate Reference: Well Collie 35-34-22-27 Fee 401H
TVD Reference: GL 3079 + KB 26 = @ 3105.00usft (HP 265)
MD Reference: GL 3079 + KB 26 = @ 3105.00usft (HP 265)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: Midland District
Offset TVD Reference: Offset Datum

Offset Design Collie 35-34-22-27 Fee Pad - Collie 35-34-22-27 Fee 401H - ST01 - Plan #2 ST01													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM+MS, 8800-MWD+HRGM+MS													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
8,600.00	8,386.52	8,600.00	8,386.52	0.00	0.00	0.00	1,255.75	-452.65	0.00	0.00	0.00	0.00	0.00	Level 1
8,700.00	8,486.52	8,700.00	8,486.52	0.33	0.00	0.00	1,255.75	-452.65	0.00	0.00	0.00	0.00	0.00	Level 1
8,800.00	8,586.52	8,800.00	8,586.52	0.67	0.01	0.00	1,255.75	-452.65	0.00	0.00	0.00	0.00	0.00	Level 1
8,816.58	8,603.11	8,816.58	8,603.11	0.72	0.01	0.00	1,255.75	-452.65	0.00	0.00	0.00	0.00	0.00	Level 1, CC, SF
8,900.00	8,686.52	8,899.99	8,686.51	1.00	0.02	-90.00	1,255.75	-453.09	0.44	-0.53	0.97	0.455	0.455	Level 1, ES
9,000.00	8,786.52	8,988.18	8,783.82	1.34	0.14	-90.00	1,255.75	-465.31	12.95	11.55	1.39	9.296		
9,100.00	8,886.52	9,089.73	8,871.44	1.68	0.41	-90.00	1,255.75	-491.50	41.68	39.86	1.82	22.901		
9,200.00	8,986.52	9,171.24	8,945.07	2.01	0.75	-90.00	1,255.75	-526.30	84.52	82.29	2.23	37.957		
9,300.00	9,086.52	9,241.56	9,004.08	2.35	1.12	-90.00	1,255.75	-564.46	138.92	136.32	2.61	53.319		
9,400.00	9,186.52	9,300.00	9,049.27	2.69	1.46	-90.00	1,255.75	-601.48	202.46	199.50	2.96	68.454		
9,500.00	9,286.52	9,350.00	9,084.76	3.03	1.78	-90.00	1,255.75	-636.67	273.08	269.79	3.29	83.108		
9,600.00	9,386.52	9,400.00	9,117.06	3.36	2.11	-90.00	1,255.75	-674.82	349.24	345.63	3.61	96.839		
9,700.00	9,486.52	9,428.90	9,134.17	3.70	2.32	-90.00	1,255.75	-698.11	429.42	425.52	3.90	110.209		
9,800.00	9,586.52	9,450.00	9,145.91	4.04	2.47	-90.00	1,255.75	-715.64	513.13	508.96	4.17	123.152		
9,900.00	9,686.52	9,484.87	9,163.87	4.38	2.72	-90.00	1,255.75	-745.52	599.11	594.65	4.47	134.177		
10,000.00	9,786.52	9,500.00	9,171.09	4.72	2.83	-90.00	1,255.75	-758.82	687.38	682.65	4.73	145.440		
10,100.00	9,886.52	9,526.40	9,182.84	5.06	3.03	-90.00	1,255.75	-782.45	777.13	772.12	5.02	154.947		
10,200.00	9,986.52	9,550.00	9,192.42	5.40	3.21	-90.00	1,255.75	-804.02	868.37	863.07	5.30	163.793		
10,300.00	10,086.52	9,550.00	9,192.42	5.74	3.21	-90.00	1,255.75	-804.02	960.67	955.13	5.54	173.358		
10,313.48	10,100.00	9,550.00	9,192.42	5.79	3.21	-90.00	1,255.75	-804.02	973.23	967.65	5.57	174.595		

Scientific Drilling, Intl

Anticollision Report

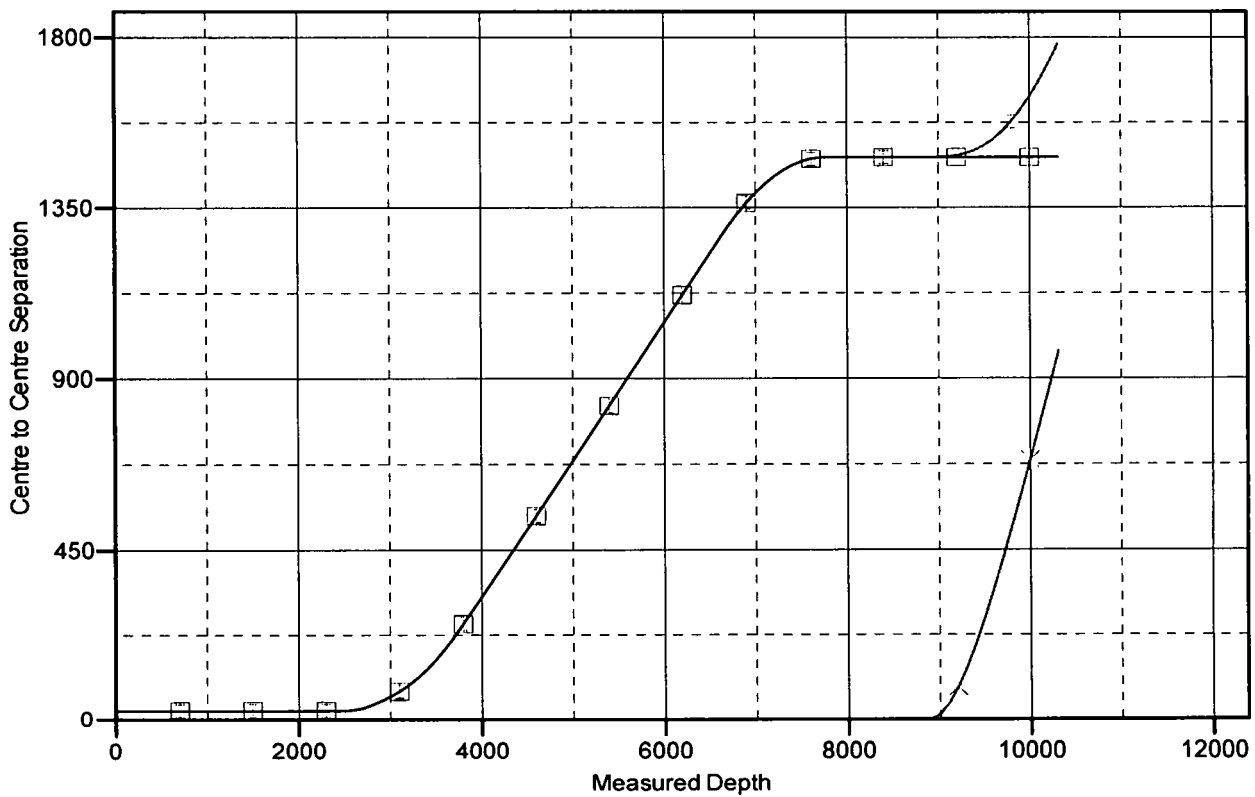
Company: WPX Energy
Project: Eddy County, New Mexico (NAD 83)
Reference Site: Collie 35-34-22-27 Fee Pad
Site Error: 0.00 usft
Reference Well: Collie 35-34-22-27 Fee 401H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Plan #1 PH

Local Co-ordinate Reference: Well Collie 35-34-22-27 Fee 401H
TVD Reference: GL 3079 + KB 26 = @ 3105.00usft (HP 265)
MD Reference: GL 3079 + KB 26 = @ 3105.00usft (HP 265)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: Midland District
Offset TVD Reference: Offset Datum

Reference Depths are relative to GL 3079 + KB 26 = @ 3105.00usft (H)
Offset Depths are relative to Offset Datum
Central Meridian is -104.333334

Coordinates are relative to: Collie 35-34-22-27 Fee 401H
Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Grid Convergence at Surface is: 0.10°

Ladder Plot



LEGEND

2-27 Fee 401H, ST01, Plan #2 ST01 V0

Beagle 35-34-22-27 Fee 401H, ST01, Plan #2 ST01 V0

Beagle 35-34-22-27 Fee 401H, Wellbore

Scientific Drilling, Intl

Anticollision Report

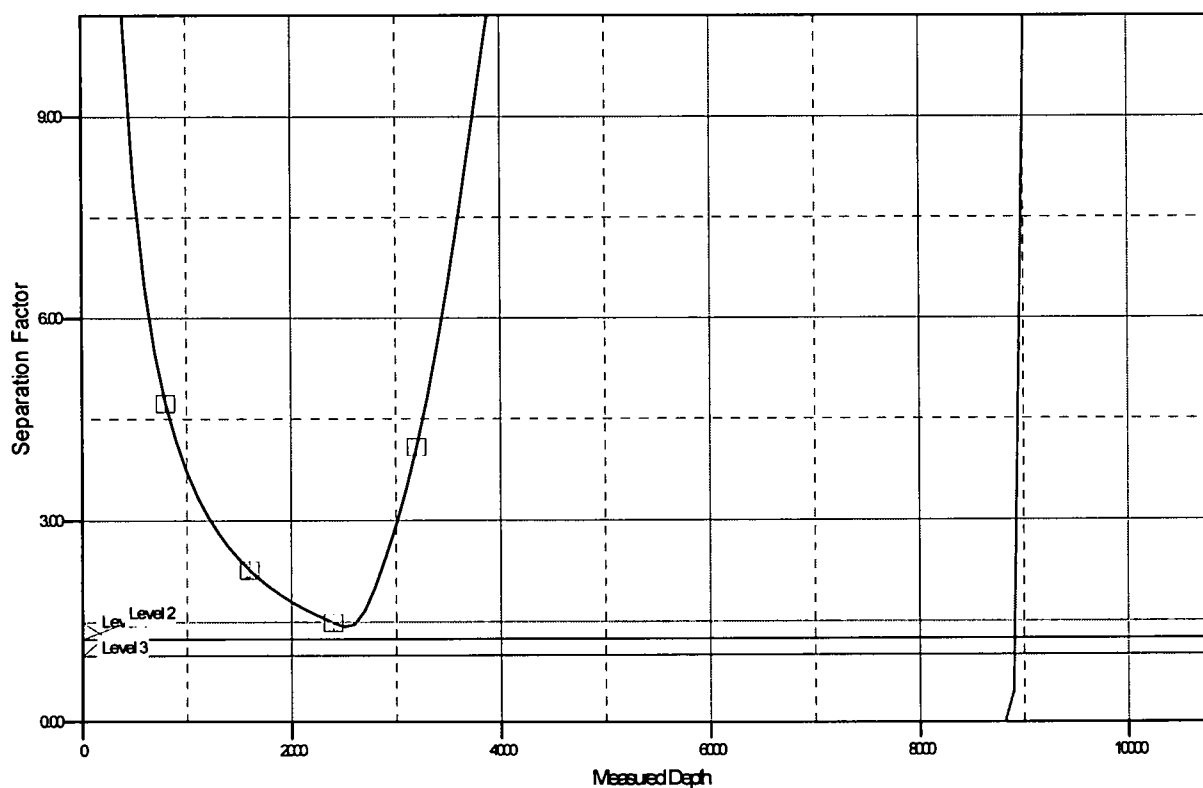
Company: WPX Energy
Project: Eddy County, New Mexico (NAD 83)
Reference Site: Collie 35-34-22-27 Fee Pad
Site Error: 0.00 usft
Reference Well: Collie 35-34-22-27 Fee 401H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Plan #1 PH

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TVD Reference: GL 3079 + KB 26 = @ 3105.00usft (HP 265)
MD Reference: GL 3079 + KB 26 = @ 3105.00usft (HP 265)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: Midland District
Offset TVD Reference: Offset Datum

Reference Depths are relative to GL 3079 + KB 26 = @ 3105.00usft (H)
Offset Depths are relative to Offset Datum
Central Meridian is -104.333334

Coordinates are relative to: Collie 35-34-22-27 Fee 401H
Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Grid Convergence at Surface is: 0.10°

Separation Factor Plot



LEGEND

2-27 Fee 401H, ST01, Plan #2 ST01 V0

—●— Beagle 35-34-22-27 Fee 401H, ST01, Plan #2 ST01 V0

—■— Beagle 35-34-22-27 Fee 401H, Wellbore