



C O N C H O

NM OIL CONSERVATION
ARTESIA DISTRICT

DEC 12 2018

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Concho Resources, Inc.

Eddy County (NAD27 NME)
(SRO 4 State Com) Sec-4_T-26-S_R-28-E
SRO 4 State Com #502H

30-015-415548

OWB
Plan #1

Anticollision Report

11 December, 2018

 **INTREPID**

Company: Concho Resources, Inc.
Project: Eddy County (NAD27 NME)
Reference Site: (SRO 4 State Com) Sec-4_T-26-S_R-28-E
Site Error: 0.0 usft
Reference Well: SRO 4 State Com #502H
Well Error: 0.0 usft
Reference Wellbore: OWB
Reference Design: Plan #1

Local Co-ordinate Reference: Well SRO 4 State Com #502H
TVD Reference: KB @ 3020.9usft (Precision 106)
MD Reference: KB @ 3020.9usft (Precision 106)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM 5000.15 Single User Db
Offset TVD Reference: Offset Datum

Reference	Plan #1		
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 1,500.0 usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date 12/11/18			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	7,356.4	Plan #1 (OWB)	MWD	OWSG MWD - Standard
7,356.4	18,186.0	Plan #1 (OWB)	MWD+IFR1+MS	MWD + IFR1 + 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						
(SRO 4 State Com) Sec-4_T-26-S_R-28-E						
SRO 4 State Com #501H - OWB - Plan #1	2,500.0	2,499.8	30.0	9.4	1.456	Level 3, CC, ES, SF
SRO 4 State Com #503H - OWB - Plan #1	2,416.6	2,416.9	30.0	10.1	1.508	CC
SRO 4 State Com #503H - OWB - Plan #1	2,500.0	2,500.0	30.0	9.4	1.456	Level 3, ES, SF
TEDDY GRAHAM STATE COM #1 (OFFSET) - OWB - A	17,577.9	7,980.5	330.2	72.2	1.280	Level 3, CC, ES, SF

Offset Design:(SRO 4 State Com) Sec-4_T-26-S_R-28-E - SRO 4 State Com #501H - OWB - Plan #1													
Survey Program: 0-MWD, 7488-MWD+IFR1+MS										Offset Site Error: 0.0 usft			
										Offset Well Error: 0.0 usft			
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Reference Offset (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	90.00	0.0	30.0	30.0				
100.0	100.0	99.8	99.8	0.1	0.1	90.00	0.0	30.0	30.0	29.7	0.29	102.862	
200.0	200.0	199.8	199.8	0.6	0.6	90.00	0.0	30.0	30.0	28.9	1.14	26.378	
300.0	300.0	299.8	299.8	1.0	1.0	90.00	0.0	30.0	30.0	28.0	1.98	15.124	
400.0	400.0	399.8	399.8	1.4	1.4	90.00	0.0	30.0	30.0	27.2	2.83	10.602	
500.0	500.0	499.8	499.8	1.8	1.8	90.00	0.0	30.0	30.0	26.3	3.68	8.161	
600.0	600.0	599.8	599.8	2.3	2.3	90.00	0.0	30.0	30.0	25.5	4.52	6.634	
700.0	700.0	699.8	699.8	2.7	2.7	90.00	0.0	30.0	30.0	24.6	5.37	5.588	
800.0	800.0	799.8	799.8	3.1	3.1	90.00	0.0	30.0	30.0	23.8	6.21	4.827	
900.0	900.0	899.8	899.8	3.5	3.5	90.00	0.0	30.0	30.0	22.9	7.06	4.249	
1,000.0	1,000.0	999.8	999.8	4.0	4.0	90.00	0.0	30.0	30.0	22.1	7.91	3.794	
1,100.0	1,100.0	1,099.8	1,099.8	4.4	4.4	90.00	0.0	30.0	30.0	21.2	8.75	3.427	
1,200.0	1,200.0	1,199.8	1,199.8	4.8	4.8	90.00	0.0	30.0	30.0	20.4	9.60	3.125	
1,300.0	1,300.0	1,299.8	1,299.8	5.2	5.2	90.00	0.0	30.0	30.0	19.6	10.45	2.872	
1,400.0	1,400.0	1,399.8	1,399.8	5.6	5.6	90.00	0.0	30.0	30.0	18.7	11.29	2.657	
1,500.0	1,500.0	1,499.8	1,499.8	6.1	6.1	90.00	0.0	30.0	30.0	17.9	12.14	2.472	
1,600.0	1,600.0	1,599.8	1,599.8	6.5	6.5	90.00	0.0	30.0	30.0	17.0	12.98	2.310	
1,700.0	1,700.0	1,699.8	1,699.8	6.9	6.9	90.00	0.0	30.0	30.0	16.2	13.83	2.169	
1,800.0	1,800.0	1,799.8	1,799.8	7.3	7.3	90.00	0.0	30.0	30.0	15.3	14.68	2.044	
1,900.0	1,900.0	1,899.8	1,899.8	7.8	7.8	90.00	0.0	30.0	30.0	14.5	15.52	1.933	
2,000.0	2,000.0	1,999.8	1,999.8	8.2	8.2	90.00	0.0	30.0	30.0	13.6	16.37	1.833	
2,100.0	2,100.0	2,099.8	2,099.8	8.6	8.6	90.00	0.0	30.0	30.0	12.8	17.22	1.743	

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



Intrepid
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Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM 5000.15 Single User Db
Offset TVD Reference: Offset Datum

Offset Design:(SRO 4 State Com) Sec-4_T-26-S_R-28-E - SRO 4 State Com #501H - OWB - Plan #1

Survey Program: 0-MWD, 7488-MWD+IFR1+MS										Rule Assigned:				Offset Site Error:
Reference Offset										Distance				Offset Well Error:
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference Offset (usft)	Semi Major Axis 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	
2,200.0	2,200.0	2,199.8	2,199.8	9.0	9.0	90.00	0.0	30.0	30.0	11.9	18.06	1.661		
2,300.0	2,300.0	2,299.8	2,299.8	9.5	9.5	90.00	0.0	30.0	30.0	11.1	18.91	1.587		
2,400.0	2,400.0	2,399.8	2,399.8	9.9	9.9	90.00	0.0	30.0	30.0	10.2	19.75	1.519		
2,500.0	2,500.0	2,499.8	2,499.8	10.3	10.3	90.00	0.0	30.0	30.0	9.4	20.60	1.456 Level 3, CC, ES, SF		
2,600.0	2,600.0	2,598.8	2,598.8	10.7	10.6	88.75	0.7	31.6	31.6	10.3	21.26	1.485 Level 3		
2,700.0	2,700.0	2,697.6	2,697.4	11.1	10.6	85.64	2.8	36.2	36.4	14.7	21.75	1.674		
2,800.0	2,800.0	2,796.6	2,796.1	11.6	10.8	82.11	6.0	43.6	44.2	22.0	22.26	1.986		
2,900.0	2,900.0	2,896.3	2,895.4	12.0	10.9	79.51	9.5	51.5	52.5	29.7	22.80	2.305		
3,000.0	3,000.0	2,995.9	2,994.6	12.4	11.0	77.63	13.0	59.3	61.0	37.6	23.36	2.610		
3,100.0	3,100.0	3,095.4	3,093.8	12.7	11.2	122.43	16.5	67.2	70.4	46.5	23.84	2.952		
3,166.5	3,166.4	3,161.5	3,159.7	12.9	11.3	123.41	18.8	72.4	77.6	53.5	24.10	3.222		
3,200.0	3,199.8	3,194.8	3,192.8	13.0	11.4	124.12	20.0	75.0	81.5	57.3	24.23	3.365		
3,300.0	3,299.7	3,294.1	3,291.7	13.2	11.6	125.88	23.4	82.8	93.2	68.6	24.65	3.782		
3,400.0	3,399.5	3,393.3	3,390.6	13.4	11.8	127.25	26.9	90.7	105.0	79.9	25.09	4.185		
3,500.0	3,499.3	3,492.6	3,489.5	13.7	12.0	128.34	30.4	98.5	116.8	91.3	25.56	4.571		
3,600.0	3,599.2	3,591.9	3,588.4	14.0	12.3	129.23	33.8	106.3	128.7	102.6	26.04	4.941		
3,700.0	3,699.0	3,691.2	3,687.3	14.2	12.5	129.97	37.3	114.1	140.5	114.0	26.54	5.294		
3,800.0	3,798.8	3,790.4	3,786.3	14.5	12.8	130.59	40.8	122.0	152.4	125.3	27.06	5.632		
3,900.0	3,898.7	3,889.7	3,885.2	14.8	13.1	131.13	44.3	129.8	164.3	136.7	27.60	5.953		
4,000.0	3,998.5	3,989.0	3,984.1	15.1	13.3	131.59	47.7	137.6	176.2	148.1	28.16	6.259		
4,100.0	4,098.3	4,088.3	4,083.0	15.4	13.6	132.00	51.2	145.4	188.2	159.4	28.73	6.550		
4,200.0	4,198.2	4,187.6	4,181.9	15.7	14.0	132.35	54.7	153.2	200.1	170.8	29.31	6.826		
4,300.0	4,298.0	4,286.8	4,280.8	16.1	14.3	132.67	58.1	161.1	212.0	182.1	29.91	7.089		
4,400.0	4,397.8	4,386.1	4,379.7	16.4	14.6	132.95	61.6	168.9	224.0	193.5	30.52	7.338		
4,500.0	4,497.7	4,485.4	4,478.6	16.7	14.9	133.20	65.1	176.7	235.9	204.8	31.15	7.575		
4,600.0	4,597.5	4,584.7	4,577.5	17.1	15.3	133.43	68.5	184.5	247.9	216.1	31.78	7.799		
4,700.0	4,697.3	4,683.9	4,676.4	17.4	15.6	133.64	72.0	192.4	259.8	227.4	32.43	8.013		
4,800.0	4,797.1	4,783.2	4,775.3	17.7	16.0	133.83	75.5	200.2	271.8	238.7	33.08	8.216		
4,900.0	4,897.0	4,882.5	4,874.2	18.1	16.3	134.00	79.0	208.0	283.8	250.0	33.75	8.408		
5,000.0	4,996.8	4,981.8	4,973.2	18.4	16.7	134.16	82.4	215.8	295.7	261.3	34.42	8.591		
5,100.0	5,096.6	5,081.1	5,072.1	18.8	17.0	134.31	85.9	223.7	307.7	272.6	35.11	8.765		
5,200.0	5,196.5	5,180.3	5,171.0	19.2	17.4	134.45	89.4	231.5	319.7	283.9	35.80	8.930		
5,300.0	5,296.3	5,279.6	5,269.9	19.5	17.8	134.57	92.8	239.3	331.7	295.2	36.50	9.088		
5,400.0	5,396.1	5,378.9	5,368.8	19.9	18.2	134.69	96.3	247.1	343.6	306.4	37.20	9.237		
5,500.0	5,496.0	5,478.2	5,467.7	20.3	18.6	134.80	99.8	255.0	355.6	317.7	37.91	9.380		
5,600.0	5,595.8	5,577.5	5,566.6	20.6	18.9	134.90	103.2	262.8	367.6	329.0	38.63	9.515		
5,700.0	5,695.6	5,676.7	5,665.5	21.0	19.3	135.00	106.7	270.6	379.6	340.2	39.35	9.645		
5,800.0	5,795.5	5,776.0	5,764.4	21.4	19.7	135.09	110.2	278.4	391.5	351.5	40.08	9.768		
5,900.0	5,895.3	5,875.3	5,863.3	21.8	20.1	135.17	113.7	286.2	403.5	362.7	40.82	9.886		
6,000.0	5,995.1	5,974.6	5,962.2	22.2	20.5	135.25	117.1	294.1	415.5	373.9	41.56	9.998		
6,100.0	6,095.0	6,073.8	6,061.2	22.5	20.9	135.33	120.6	301.9	427.5	385.2	42.30	10.105		
6,200.0	6,194.8	6,173.1	6,160.1	22.9	21.3	135.40	124.1	309.7	439.5	396.4	43.05	10.207		
6,300.0	6,294.6	6,272.4	6,259.0	23.3	21.7	135.47	127.5	317.5	451.4	407.6	43.81	10.305		
6,400.0	6,394.4	6,371.7	6,357.9	23.7	22.1	135.53	131.0	325.4	463.4	418.9	44.56	10.399		
6,500.0	6,494.3	6,471.0	6,456.8	24.1	22.6	135.59	134.5	333.2	475.4	430.1	45.33	10.489		
6,600.0	6,594.1	6,570.2	6,555.7	24.5	23.0	135.65	137.9	341.0	487.4	441.3	46.09	10.575		
6,700.0	6,693.9	6,669.5	6,654.6	24.9	23.4	135.70	141.4	348.8	499.4	452.5	46.86	10.657		
6,800.0	6,793.8	6,768.8	6,753.5	25.3	23.8	135.76	144.9	356.7	511.4	463.7	47.63	10.736		
6,900.0	6,893.6	6,868.1	6,852.4	25.7	24.2	135.81	148.3	364.5	523.4	474.9	48.41	10.811		
7,000.0	6,993.4	6,967.3	6,951.3	26.1	24.7	135.85	151.8	372.3	535.3	486.2	49.19	10.884		
7,100.0	7,093.3	7,066.6	7,050.2	26.5	25.1	135.90	155.3	380.1	547.3	497.4	49.97	10.954		
7,200.0	7,193.1	7,165.9	7,149.1	26.9	25.5	135.94	158.8	388.0	559.3	508.6	50.75	11.021		

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Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	
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)			
7,300.0	7,292.9	7,265.2	7,248.1	27.3	25.9	135.99	162.2	395.8	571.3	519.8	51.54	11.085	
7,356.4	7,349.2	7,321.1	7,303.8	27.5	26.2	136.01	164.2	400.2	578.1	526.1	51.98	11.120	
7,400.0	7,392.8	7,364.4	7,346.9	27.6	26.4	-138.66	165.7	403.6	583.3	531.0	52.23	11.168	
7,450.0	7,442.6	7,413.7	7,396.0	27.6	26.6	-107.83	167.4	407.5	589.2	536.8	52.42	11.241	
7,500.0	7,491.8	7,462.3	7,444.5	27.6	26.8	-100.70	169.1	411.3	595.2	542.6	52.60	11.316	
7,550.0	7,540.2	7,510.8	7,492.8	27.6	26.9	-98.17	170.3	415.1	601.4	548.7	52.71	11.410	
7,600.0	7,587.2	7,561.0	7,542.8	27.6	26.9	-97.14	167.9	419.1	607.7	555.0	52.71	11.531	
7,650.0	7,632.7	7,612.7	7,593.7	27.6	26.9	-96.76	160.7	423.0	614.2	561.5	52.71	11.653	
7,700.0	7,676.1	7,665.8	7,645.3	27.6	26.9	-96.73	148.6	427.1	620.8	568.1	52.72	11.775	
7,750.0	7,717.3	7,720.5	7,697.0	27.6	26.9	-96.89	131.2	431.0	627.3	574.6	52.73	11.898	
7,800.0	7,755.8	7,777.0	7,748.4	27.6	26.9	-97.17	108.1	435.0	633.8	581.0	52.72	12.021	
7,850.0	7,791.4	7,835.3	7,798.8	27.7	27.0	-97.52	79.1	438.8	640.0	587.3	52.70	12.144	
7,900.0	7,823.8	7,895.5	7,847.5	27.7	27.0	-97.90	44.0	442.5	645.9	593.3	52.66	12.266	
7,950.0	7,852.8	7,957.5	7,893.5	27.7	27.0	-98.30	2.6	445.9	651.5	598.9	52.60	12.385	
8,000.0	7,878.1	8,021.4	7,935.9	27.7	27.0	-98.69	-45.0	449.0	656.5	604.0	52.53	12.498	
8,050.0	7,899.6	8,087.1	7,973.8	27.7	27.0	-99.06	-98.5	451.7	660.9	608.5	52.45	12.601	
8,100.0	7,917.1	8,154.3	8,006.0	27.7	27.0	-99.38	-157.5	453.9	664.7	612.3	52.38	12.689	
8,150.0	7,930.4	8,222.9	8,031.5	27.7	27.0	-99.64	-221.1	455.6	667.6	615.2	52.34	12.755	
8,200.0	7,939.4	8,292.6	8,049.5	27.7	27.0	-99.83	-288.4	456.6	669.6	617.3	52.34	12.795	
8,250.0	7,944.2	8,363.0	8,059.2	27.7	27.0	-99.94	-358.0	457.1	670.8	618.4	52.39	12.804	
8,280.9	7,945.0	8,406.6	8,061.0	27.7	27.0	-99.97	-401.6	457.0	671.0	618.5	52.45	12.794	
8,300.0	7,944.9	8,426.6	8,060.9	27.7	27.0	-99.97	-421.6	456.9	671.0	618.5	52.48	12.785	
8,400.0	7,944.7	8,526.6	8,060.6	27.7	27.0	-99.96	-521.6	456.3	670.9	618.3	52.67	12.738	
8,500.0	7,944.5	8,626.6	8,060.3	27.7	27.0	-99.96	-621.6	455.8	670.9	618.0	52.90	12.682	
8,600.0	7,944.3	8,726.6	8,060.1	27.8	27.0	-99.95	-721.6	455.2	670.9	617.7	53.18	12.615	
8,700.0	7,944.1	8,826.6	8,059.8	28.0	27.0	-99.94	-821.6	454.7	670.9	617.4	53.50	12.539	
8,800.0	7,943.9	8,926.6	8,059.5	28.2	27.0	-99.93	-921.6	454.1	670.8	617.0	53.86	12.455	
8,900.0	7,943.7	9,026.6	8,059.2	28.4	27.0	-99.93	-1,021.6	453.6	670.8	616.6	54.26	12.362	
9,000.0	7,943.5	9,126.6	8,058.9	28.6	27.1	-99.92	-1,121.6	453.0	670.8	616.1	54.71	12.262	
9,100.0	7,943.3	9,226.6	8,058.6	28.8	27.2	-99.91	-1,221.6	452.5	670.8	615.6	55.19	12.155	
9,200.0	7,943.1	9,326.6	8,058.3	29.0	27.5	-99.90	-1,321.6	451.9	670.7	615.0	55.71	12.041	
9,300.0	7,942.9	9,426.6	8,058.0	29.3	27.7	-99.90	-1,421.6	451.4	670.7	614.5	56.26	11.922	
9,400.0	7,942.7	9,526.6	8,057.7	29.6	28.0	-99.89	-1,521.6	450.8	670.7	613.8	56.85	11.797	
9,500.0	7,942.5	9,626.6	8,057.4	29.9	28.3	-99.88	-1,621.6	450.3	670.7	613.2	57.48	11.668	
9,600.0	7,942.3	9,726.6	8,057.1	30.2	28.7	-99.87	-1,721.6	449.7	670.7	612.5	58.14	11.536	
9,700.0	7,942.1	9,826.6	8,056.8	30.5	29.0	-99.87	-1,821.6	449.2	670.6	611.8	58.83	11.400	
9,800.0	7,941.9	9,926.6	8,056.5	30.9	29.4	-99.86	-1,921.6	448.6	670.6	611.1	59.55	11.261	
9,900.0	7,941.7	10,026.6	8,056.2	31.3	29.8	-99.85	-2,021.6	448.1	670.6	610.3	60.30	11.120	
10,000.0	7,941.5	10,126.6	8,056.0	31.6	30.2	-99.84	-2,121.6	447.5	670.6	609.5	61.09	10.977	
10,100.0	7,941.3	10,226.6	8,055.7	32.0	30.6	-99.84	-2,221.6	447.0	670.5	608.6	61.90	10.833	
10,200.0	7,941.1	10,326.6	8,055.4	32.4	31.0	-99.83	-2,321.6	446.4	670.5	607.8	62.73	10.688	
10,300.0	7,940.9	10,426.6	8,055.1	32.9	31.5	-99.82	-2,421.6	445.9	670.5	606.9	63.60	10.543	
10,400.0	7,940.7	10,526.6	8,054.8	33.3	31.9	-99.81	-2,521.6	445.3	670.5	606.0	64.48	10.397	
10,500.0	7,940.5	10,626.6	8,054.5	33.7	32.4	-99.81	-2,621.6	444.8	670.4	605.0	65.40	10.252	
10,600.0	7,940.3	10,726.6	8,054.2	34.2	32.9	-99.80	-2,721.6	444.2	670.4	604.1	66.33	10.107	
10,700.0	7,940.1	10,826.6	8,053.9	34.6	33.3	-99.79	-2,821.6	443.7	670.4	603.1	67.28	9.963	
10,800.0	7,939.9	10,926.6	8,053.6	35.1	33.8	-99.78	-2,921.5	443.1	670.4	602.1	68.26	9.821	
10,900.0	7,939.7	11,026.6	8,053.3	35.6	34.3	-99.78	-3,021.5	442.6	670.3	601.1	69.26	9.679	
11,000.0	7,939.5	11,126.6	8,053.0	36.1	34.9	-99.77	-3,121.5	442.0	670.3	600.0	70.27	9.539	
11,100.0	7,939.3	11,226.6	8,052.7	36.6	35.4	-99.76	-3,221.5	441.5	670.3	599.0	71.31	9.400	
11,200.0	7,939.1	11,326.6	8,052.4	37.1	35.9	-99.75	-3,321.5	440.9	670.3	597.9	72.36	9.263	
11,300.0	7,938.9	11,426.6	8,052.1	37.6	36.4	-99.75	-3,421.5	440.4	670.2	596.8	73.43	9.128	

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



Intrepid
Anticollision Report



Company: Concho Resources, Inc.
Project: Eddy County (NAD27 NME)
Reference Site: (SRO 4 State Com) Sec-4_T-26-S_R-28-E
Site Error: 0.0 usft
Reference Well: SRO 4 State Com #502H
Well Error: 0.0 usft
Reference Wellbore: OWB
Reference Design: Plan #1

Local Co-ordinate Reference: Well SRO 4 State Com #502H
TVD Reference: KB @ 3020.9usft (Precision 106)
MD Reference: KB @ 3020.9usft (Precision 106)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM 5000.15 Single User Db
Offset TVD Reference: Offset Datum

Offset Design: (SRO 4 State Com) Sec-4_T-26-S_R-28-E - SRO 4 State Com #501H - OWB - Plan #1

Survey Program: 0-MWD, 7488-MWD+IFR1+MS										Rule Assigned:				Offset Site Error:
Reference Offset										Distance				Offset Well Error:
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N-S (usft)	+E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
11,400.0	7,938.7	11,526.6	8,051.9	38.2	37.0	-99.74	-99.74	-3,521.5	439.8	670.2	595.7	74.51	8.995	
11,500.0	7,938.5	11,526.6	8,051.6	38.7	37.5	-99.73	-99.73	-3,621.5	439.3	670.2	594.6	75.61	8.864	
11,600.0	7,938.3	11,726.6	8,051.3	39.2	38.1	-99.72	-99.72	-3,721.5	438.7	670.2	593.4	76.73	8.735	
11,700.0	7,938.1	11,826.6	8,051.0	39.8	38.7	-99.72	-99.72	-3,821.5	438.2	670.2	592.3	77.86	8.608	
11,800.0	7,937.9	11,926.6	8,050.7	40.3	39.3	-99.71	-99.71	-3,921.5	437.6	670.1	591.1	79.00	8.483	
11,900.0	7,937.7	12,026.6	8,050.4	40.9	39.8	-99.70	-99.70	-4,021.5	437.1	670.1	590.0	80.15	8.360	
12,000.0	7,937.5	12,126.6	8,050.1	41.5	40.4	-99.69	-99.69	-4,121.5	436.5	670.1	588.8	81.32	8.240	
12,100.0	7,937.3	12,226.6	8,049.8	42.1	41.0	-99.69	-99.69	-4,221.5	436.0	670.1	587.6	82.50	8.122	
12,200.0	7,937.1	12,326.6	8,049.5	42.6	41.6	-99.68	-99.68	-4,321.5	435.4	670.0	586.3	83.69	8.006	
12,300.0	7,936.9	12,426.6	8,049.2	43.2	42.2	-99.67	-99.67	-4,421.5	434.9	670.0	585.1	84.89	7.893	
12,400.0	7,936.7	12,526.6	8,048.9	43.8	42.8	-99.66	-99.66	-4,521.5	434.3	670.0	583.9	86.10	7.781	
12,500.0	7,936.5	12,626.6	8,048.6	44.4	43.4	-99.66	-99.66	-4,621.5	433.8	670.0	582.6	87.33	7.672	
12,600.0	7,936.3	12,726.6	8,048.3	45.0	44.1	-99.65	-99.65	-4,721.5	433.2	669.9	581.4	88.56	7.565	
12,700.0	7,936.1	12,826.6	8,048.0	45.6	44.7	-99.64	-99.64	-4,821.5	432.7	669.9	580.1	89.80	7.460	
12,800.0	7,935.9	12,926.6	8,047.8	46.2	45.3	-99.63	-99.63	-4,921.5	432.1	669.9	578.8	91.05	7.358	
12,900.0	7,935.7	13,026.6	8,047.5	46.9	45.9	-99.62	-99.62	-5,021.5	431.6	669.9	577.6	92.30	7.257	
13,000.0	7,935.5	13,126.6	8,047.2	47.5	46.6	-99.62	-99.62	-5,121.5	431.0	669.8	576.3	93.57	7.159	
13,100.0	7,935.3	13,226.6	8,046.9	48.1	47.2	-99.61	-99.61	-5,221.5	430.5	669.8	575.0	94.84	7.062	
13,200.0	7,935.1	13,326.6	8,046.6	48.7	47.9	-99.60	-99.60	-5,321.5	429.9	669.8	573.7	96.12	6.968	
13,300.0	7,934.9	13,426.6	8,046.3	49.4	48.5	-99.59	-99.59	-5,421.5	429.4	669.8	572.4	97.41	6.876	
13,400.0	7,934.7	13,526.6	8,046.0	50.0	49.2	-99.59	-99.59	-5,521.5	428.9	669.7	571.0	98.71	6.785	
13,500.0	7,934.5	13,626.6	8,045.7	50.7	49.8	-99.58	-99.58	-5,621.5	428.3	669.7	569.7	100.01	6.697	
13,600.0	7,934.3	13,726.6	8,045.4	51.3	50.5	-99.57	-99.57	-5,721.5	427.8	669.7	568.4	101.32	6.610	
13,700.0	7,934.0	13,826.6	8,045.1	52.0	51.1	-99.56	-99.56	-5,821.5	427.2	669.7	567.0	102.63	6.525	
13,800.0	7,933.8	13,926.6	8,044.8	52.6	51.8	-99.56	-99.56	-5,921.5	426.7	669.7	565.7	103.95	6.442	
13,900.0	7,933.6	14,026.6	8,044.5	53.3	52.5	-99.55	-99.55	-6,021.5	426.1	669.6	564.4	105.28	6.361	
14,000.0	7,933.4	14,126.6	8,044.2	53.9	53.1	-99.54	-99.54	-6,121.5	425.6	669.6	563.0	106.61	6.281	
14,100.0	7,933.2	14,226.6	8,043.9	54.6	53.8	-99.53	-99.53	-6,221.5	425.0	669.6	561.6	107.95	6.203	
14,200.0	7,933.0	14,326.6	8,043.7	55.2	54.5	-99.53	-99.53	-6,321.5	424.5	669.6	560.3	109.29	6.127	
14,300.0	7,932.8	14,426.6	8,043.4	55.9	55.1	-99.52	-99.52	-6,421.5	423.9	669.5	558.9	110.63	6.052	
14,400.0	7,932.6	14,526.6	8,043.1	56.6	55.8	-99.51	-99.51	-6,521.5	423.4	669.5	557.5	111.98	5.979	
14,500.0	7,932.4	14,626.6	8,042.8	57.2	56.5	-99.50	-99.50	-6,621.5	422.8	669.5	556.1	113.34	5.907	
14,600.0	7,932.2	14,726.6	8,042.5	57.9	57.2	-99.50	-99.50	-6,721.5	422.3	669.5	554.8	114.70	5.837	
14,700.0	7,932.0	14,826.6	8,042.2	58.6	57.9	-99.49	-99.49	-6,821.5	421.7	669.4	553.4	116.06	5.768	
14,800.0	7,931.8	14,926.6	8,041.9	59.3	58.6	-99.48	-99.48	-6,921.5	421.2	669.4	552.0	117.43	5.700	
14,900.0	7,931.6	15,026.6	8,041.6	59.9	59.2	-99.47	-99.47	-7,021.5	420.6	669.4	550.6	118.80	5.634	
15,000.0	7,931.4	15,126.6	8,041.3	60.6	59.9	-99.47	-99.47	-7,121.5	420.1	669.4	549.2	120.18	5.570	
15,100.0	7,931.2	15,226.6	8,041.0	61.3	60.6	-99.46	-99.46	-7,221.5	419.5	669.3	547.8	121.56	5.506	
15,200.0	7,931.0	15,326.6	8,040.7	62.0	61.3	-99.45	-99.45	-7,321.5	419.0	669.3	546.4	122.94	5.444	
15,300.0	7,930.8	15,426.6	8,040.4	62.7	62.0	-99.44	-99.44	-7,421.5	418.4	669.3	545.0	124.33	5.383	
15,400.0	7,930.6	15,526.6	8,040.1	63.4	62.7	-99.44	-99.44	-7,521.5	417.9	669.3	543.6	125.72	5.324	
15,500.0	7,930.4	15,626.6	8,039.8	64.1	63.4	-99.43	-99.43	-7,621.5	417.3	669.3	542.1	127.11	5.265	
15,600.0	7,930.2	15,726.6	8,039.6	64.7	64.1	-99.42	-99.42	-7,721.5	416.8	669.2	540.7	128.51	5.208	
15,700.0	7,930.0	15,826.6	8,039.3	65.4	64.8	-99.41	-99.41	-7,821.5	416.2	669.2	539.3	129.91	5.151	
15,800.0	7,929.8	15,926.6	8,039.0	66.1	65.5	-99.41	-99.41	-7,921.4	415.7	669.2	537.9	131.31	5.096	
15,900.0	7,929.6	16,026.6	8,038.7	66.8	66.2	-99.40	-99.40	-8,021.4	415.1	669.2	536.4	132.72	5.042	
16,000.0	7,929.4	16,126.6	8,038.4	67.5	66.9	-99.39	-99.39	-8,121.4	414.6	669.1	535.0	134.12	4.989	
16,100.0	7,929.2	16,226.6	8,038.1	68.2	67.6	-99.38	-99.38	-8,221.4	414.0	669.1	533.6	135.53	4.937	
16,200.0	7,929.0	16,326.6	8,037.8	68.9	68.3	-99.38	-99.38	-8,321.4	413.5	669.1	532.1	136.95	4.886	
16,300.0	7,928.8	16,426.6	8,037.5	69.6	69.0	-99.37	-99.37	-8,421.4	412.9	669.1	530.7	138.36	4.836	
16,400.0	7,928.6	16,526.6	8,037.2	70.3	69.8	-99.36	-99.36	-8,521.4	412.4	669.0	529.3	139.78	4.786	
16,500.0	7,928.4	16,626.6	8,036.9	71.0	70.5	-99.35	-99.35	-8,621.4	411.8	669.0	527.8	141.20	4.738	

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



Intrepid
Anticollision Report



Company: Concho Resources, Inc.
Project: Eddy County (NAD27 NME)
Reference Site: (SRO 4 State Com) Sec-4_T-26-S_R-28-E
Site Error: 0.0 usft
Reference Well: SRO 4 State Com #502H
Well Error: 0.0 usft
Reference Wellbore: OWB
Reference Design: Plan #1

Local Co-ordinate Reference: Well SRO 4 State Com #502H
TVD Reference: KB @ 3020.9usft (Precision 106)
MD Reference: KB @ 3020.9usft (Precision 106)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM 5000.15 Single User Db
Offset TVD Reference: Offset Datum

Offset Design:(SRO 4 State Com) Sec-4_T-26-S_R-28-E - SRO 4 State Com #501H - OWB - Plan #1

Survey Program: 0-MWD, 7488-MWD+IFR1+MS										Rule Assigned:				Offset Site Error:
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	Offset Well Error:
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)						0.0 usft
16,600.0	7,928.2	16,726.6	8,036.6	71.7	71.2	-99.34	-8,721.4	411.3	669.0	526.4	142.62	4.691		
16,700.0	7,928.0	16,826.6	8,036.3	72.5	71.9	-99.34	-8,821.4	410.7	669.0	524.9	144.05	4.644		
16,800.0	7,927.8	16,926.6	8,036.0	73.2	72.6	-99.33	-8,921.4	410.2	669.0	523.5	145.47	4.598		
16,900.0	7,927.6	17,026.6	8,035.8	73.9	73.3	-99.32	-9,021.4	409.6	668.9	522.0	146.90	4.554		
17,000.0	7,927.4	17,126.6	8,035.5	74.6	74.0	-99.31	-9,121.4	409.1	668.9	520.6	148.33	4.510		
17,100.0	7,927.2	17,226.6	8,035.2	75.3	74.8	-99.31	-9,221.4	408.5	668.9	519.1	149.76	4.466		
17,200.0	7,927.0	17,326.6	8,034.9	76.0	75.5	-99.30	-9,321.4	408.0	668.9	517.7	151.20	4.424		
17,300.0	7,926.8	17,426.6	8,034.6	76.7	76.2	-99.29	-9,421.4	407.4	668.8	516.2	152.64	4.382		
17,400.0	7,926.6	17,526.6	8,034.3	77.4	76.9	-99.28	-9,521.4	406.9	668.8	514.7	154.07	4.341		
17,500.0	7,926.4	17,626.6	8,034.0	78.2	77.6	-99.28	-9,621.4	406.3	668.8	513.3	155.51	4.301		
17,600.0	7,926.2	17,726.6	8,033.7	78.9	78.4	-99.27	-9,721.4	405.8	668.8	511.8	156.95	4.261		
17,700.0	7,926.0	17,826.6	8,033.4	79.6	79.1	-99.26	-9,821.4	405.2	668.7	510.3	158.40	4.222		
17,800.0	7,925.8	17,926.6	8,033.1	80.3	79.8	-99.25	-9,921.4	404.7	668.7	508.9	159.84	4.184		
17,900.0	7,925.6	18,026.6	8,032.8	81.0	80.5	-99.25	-10,021.4	404.1	668.7	507.4	161.29	4.146		
18,000.0	7,925.4	18,126.6	8,032.5	81.7	81.2	-99.24	-10,121.4	403.6	668.7	505.9	162.74	4.109		
18,100.0	7,925.2	18,226.6	8,032.2	82.5	82.0	-99.23	-10,221.4	403.0	668.7	504.5	164.19	4.073		
18,182.7	7,925.0	18,308.2	8,032.0	83.1	82.6	-99.23	-10,303.0	402.6	668.6	503.3	165.38	4.043		
18,186.0	7,925.0	18,308.2	8,032.0	83.1	82.6	-99.23	-10,303.0	402.6	668.6	503.2	165.41	4.042		
18,186.8	7,925.0	18,308.2	8,032.0	83.1	82.6	-99.23	-10,303.0	402.6	668.7	503.2	165.42	4.042		



Intrepid Anticollision Report



Company: Concho Resources, Inc.
Project: Eddy County (NAD27 NME)
Reference Site: (SRO 4 State Com) Sec-4_T-26-S_R-28-E
Site Error: 0.0 usft
Reference Well: SRO 4 State Com #502H
Well Error: 0.0 usft
Reference Wellbore: OWB
Reference Design: Plan #1

Local Co-ordinate Reference: Well SRO 4 State Com #502H
TVD Reference: KB @ 3020.9usft (Precision 106)
MD Reference: KB @ 3020.9usft (Precision 106)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM 5000.15 Single User Db
Offset TVD Reference: Offset Datum

Offset Design:(SRO 4 State Com) Sec-4_T-26-S_R-28-E - SRO 4 State Com #503H - OWB - Plan #1

Survey Program: 0-MWD, 7484-MWD+IFR1+MS							Rule Assigned:					Offset Well Error:		0.0 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)				
0.0	0.0	0.3	0.3	0.0	0.0	-90.00	0.0	-30.0	30.0					
100.0	100.0	100.3	100.3	0.1	0.1	-90.00	0.0	-30.0	30.0	29.7	0.29	102.314		
200.0	200.0	200.3	200.3	0.6	0.6	-90.00	0.0	-30.0	30.0	28.9	1.14	26.329		
300.0	300.0	300.3	300.3	1.0	1.0	-90.00	0.0	-30.0	30.0	28.0	1.99	15.108		
400.0	400.0	400.3	400.3	1.4	1.4	-90.00	0.0	-30.0	30.0	27.2	2.83	10.594		
500.0	500.0	500.3	500.3	1.8	1.8	-90.00	0.0	-30.0	30.0	26.3	3.68	8.156		
600.0	600.0	600.3	600.3	2.3	2.3	-90.00	0.0	-30.0	30.0	25.5	4.52	6.631		
700.0	700.0	700.3	700.3	2.7	2.7	-90.00	0.0	-30.0	30.0	24.6	5.37	5.586		
800.0	800.0	800.3	800.3	3.1	3.1	-90.00	0.0	-30.0	30.0	23.8	6.22	4.826		
900.0	900.0	900.3	900.3	3.5	3.5	-90.00	0.0	-30.0	30.0	22.9	7.06	4.248		
1,000.0	1,000.0	1,000.3	1,000.3	4.0	4.0	-90.00	0.0	-30.0	30.0	22.1	7.91	3.793		
1,100.0	1,100.0	1,100.3	1,100.3	4.4	4.4	-90.00	0.0	-30.0	30.0	21.2	8.76	3.426		
1,200.0	1,200.0	1,200.3	1,200.3	4.8	4.8	-90.00	0.0	-30.0	30.0	20.4	9.60	3.124		
1,300.0	1,300.0	1,300.3	1,300.3	5.2	5.2	-90.00	0.0	-30.0	30.0	19.6	10.45	2.871		
1,400.0	1,400.0	1,400.3	1,400.3	5.6	5.6	-90.00	0.0	-30.0	30.0	18.7	11.29	2.656		
1,500.0	1,500.0	1,500.3	1,500.3	6.1	6.1	-90.00	0.0	-30.0	30.0	17.9	12.14	2.471		
1,600.0	1,600.0	1,600.3	1,600.3	6.5	6.5	-90.00	0.0	-30.0	30.0	17.0	12.99	2.310		
1,700.0	1,700.0	1,700.3	1,700.3	6.9	6.9	-90.00	0.0	-30.0	30.0	16.2	13.83	2.169		
1,800.0	1,800.0	1,800.3	1,800.3	7.3	7.3	-90.00	0.0	-30.0	30.0	15.3	14.68	2.044		
1,900.0	1,900.0	1,900.3	1,900.3	7.8	7.8	-90.00	0.0	-30.0	30.0	14.5	15.53	1.932		
2,000.0	2,000.0	2,000.3	2,000.3	8.2	8.2	-90.00	0.0	-30.0	30.0	13.6	16.37	1.832		
2,100.0	2,100.0	2,100.3	2,100.3	8.6	8.6	-90.00	0.0	-30.0	30.0	12.8	17.22	1.742		
2,200.0	2,200.0	2,200.3	2,200.3	9.0	9.0	-90.00	0.0	-30.0	30.0	11.9	18.06	1.661		
2,300.0	2,300.0	2,300.3	2,300.3	9.5	9.5	-90.00	0.0	-30.0	30.0	11.1	18.91	1.586		
2,400.0	2,400.0	2,400.3	2,400.3	9.9	9.9	-90.00	0.0	-30.0	30.0	10.2	19.76	1.519		
2,416.6	2,416.6	2,416.9	2,416.9	9.9	9.9	-90.00	0.0	-30.0	30.0	10.1	19.90	1.508 CC		
2,500.0	2,500.0	2,500.0	2,500.0	10.3	10.3	-90.00	0.0	-30.0	30.0	9.4	20.60	1.456 Level 3, ES, SF		
2,600.0	2,600.0	2,599.2	2,599.2	10.7	10.5	-89.47	0.3	-31.7	31.7	10.5	21.23	1.493 Level 3		
2,700.0	2,700.0	2,697.9	2,697.8	11.1	10.6	-88.17	1.2	-36.7	36.8	15.2	21.66	1.701		
2,800.0	2,800.0	2,796.8	2,796.3	11.6	10.6	-86.70	2.6	-44.8	45.1	23.0	22.10	2.039		
2,900.0	2,900.0	2,896.4	2,895.5	12.0	10.7	-85.62	4.1	-53.5	53.9	31.3	22.59	2.385		
3,000.0	3,000.0	2,996.0	2,994.8	12.4	10.8	-84.84	5.6	-62.2	62.7	39.6	23.10	2.715		
3,100.0	3,100.0	3,095.8	3,094.1	12.7	10.9	-39.90	7.1	-70.9	70.2	46.7	23.52	2.985		
3,166.5	3,166.4	3,162.1	3,160.2	12.9	11.0	-41.00	8.1	-76.7	73.7	50.0	23.74	3.105		
3,200.0	3,199.8	3,195.6	3,193.5	13.0	11.0	-41.73	8.7	-79.6	75.2	51.4	23.86	3.153		
3,300.0	3,299.7	3,295.5	3,293.0	13.2	11.2	-43.75	10.2	-88.4	79.7	55.5	24.23	3.291		
3,400.0	3,399.5	3,395.3	3,392.5	13.4	11.4	-45.55	11.7	-97.1	84.4	59.7	24.62	3.426		
3,500.0	3,499.3	3,495.2	3,491.9	13.7	11.5	-47.17	13.2	-105.8	89.0	64.0	25.04	3.556		
3,600.0	3,599.2	3,595.0	3,591.4	14.0	11.7	-48.62	14.7	-114.5	93.8	68.3	25.48	3.681		
3,700.0	3,699.0	3,694.9	3,690.9	14.2	12.0	-49.93	16.2	-123.2	98.6	72.7	25.94	3.800		
3,800.0	3,798.8	3,794.8	3,790.3	14.5	12.2	-51.12	17.8	-131.9	103.4	77.0	26.43	3.914		
3,900.0	3,898.7	3,894.6	3,889.8	14.8	12.4	-52.20	19.3	-140.7	108.3	81.4	26.94	4.022		
4,000.0	3,998.5	3,994.5	3,989.3	15.1	12.7	-53.19	20.8	-149.4	113.3	85.8	27.46	4.124		
4,100.0	4,098.3	4,094.3	4,088.7	15.4	13.0	-54.09	22.3	-158.1	118.2	90.2	28.00	4.221		
4,200.0	4,198.2	4,194.2	4,188.2	15.7	13.3	-54.93	23.8	-166.8	123.2	94.6	28.57	4.313		
4,300.0	4,298.0	4,294.1	4,287.7	16.1	13.6	-55.69	25.4	-175.5	128.2	99.1	29.14	4.400		
4,400.0	4,397.8	4,393.9	4,387.1	16.4	13.9	-56.40	26.9	-184.2	133.2	103.5	29.74	4.481		
4,500.0	4,497.7	4,493.8	4,486.6	16.7	14.2	-57.06	28.4	-193.0	138.3	108.0	30.34	4.558		
4,600.0	4,597.5	4,593.6	4,586.1	17.1	14.5	-57.67	29.9	-201.7	143.4	112.4	30.96	4.630		
4,700.0	4,697.3	4,693.5	4,685.5	17.4	14.8	-58.24	31.4	-210.4	148.4	116.8	31.60	4.698		
4,800.0	4,797.1	4,793.4	4,785.0	17.7	15.2	-58.77	33.0	-219.1	153.5	121.3	32.24	4.762		
4,900.0	4,897.0	4,893.2	4,884.5	18.1	15.5	-59.27	34.5	-227.8	158.6	125.7	32.90	4.822		

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



Intrepid
Anticollision Report



Company: Concho Resources, Inc.
Project: Eddy County (NAD27 NME)
Reference Site: (SRO 4 State Com) Sec-4_T-26-S_R-28-E
Site Error: 0.0 usft
Reference Well: SRO 4 State Com #502H
Well Error: 0.0 usft
Reference Wellbore: OWB
Reference Design: Plan #1

Local Co-ordinate Reference: Well SRO 4 State Com #502H
TVD Reference: KB @ 3020.9usft (Precision 106)
MD Reference: KB @ 3020.9usft (Precision 106)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM 5000.15 Single User Db
Offset TVD Reference: Offset Datum

Offset Design:(SRO 4 State Com) Sec-4_T-26-S_R-28-E - SRO 4 State Com #503H - OWB - Plan #1

Survey Program: 0-MWD, 7484-MWD+IFR1+MS										Rule Assigned:				Offset Site Error:
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)	Minimum Separation (usft)	Separation Factor	Warning	Offset Well Error:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N-S (usft)	+E-W (usft)					0.0 usft	
5,000.0	4,996.8	4,993.1	4,983.9	18.4	15.9	-59.74	36.0	-236.5	163.8	130.2	33.57	4.879		
5,100.0	5,096.6	5,092.9	5,083.4	18.8	16.2	-60.18	37.5	-245.3	168.9	134.6	34.24	4.932		
5,200.0	5,196.5	5,192.8	5,182.9	19.2	16.6	-60.59	39.0	-254.0	174.0	139.1	34.93	4.982		
5,300.0	5,296.3	5,292.7	5,282.4	19.5	16.9	-60.98	40.6	-262.7	179.2	143.5	35.63	5.029		
5,400.0	5,396.1	5,392.5	5,381.8	19.9	17.3	-61.35	42.1	-271.4	184.3	148.0	36.33	5.073		
5,500.0	5,496.0	5,492.4	5,481.3	20.3	17.7	-61.69	43.6	-280.1	189.5	152.4	37.05	5.115		
5,600.0	5,595.8	5,592.3	5,580.8	20.6	18.1	-62.02	45.1	-288.9	194.7	156.9	37.77	5.154		
5,700.0	5,695.6	5,692.1	5,680.2	21.0	18.5	-62.33	46.6	-297.6	199.8	161.3	38.49	5.191		
5,800.0	5,795.5	5,792.0	5,779.7	21.4	18.9	-62.63	48.2	-306.3	205.0	165.8	39.23	5.226		
5,900.0	5,895.3	5,891.8	5,879.2	21.8	19.2	-62.91	49.7	-315.0	210.2	170.2	39.97	5.259		
6,000.0	5,995.1	5,991.7	5,978.6	22.2	19.6	-63.18	51.2	-323.7	215.4	174.7	40.72	5.290		
6,100.0	6,095.0	6,091.6	6,078.1	22.5	20.0	-63.43	52.7	-332.4	220.6	179.1	41.47	5.319		
6,200.0	6,194.8	6,191.4	6,177.6	22.9	20.5	-63.68	54.2	-341.2	225.8	183.6	42.22	5.347		
6,300.0	6,294.6	6,291.3	6,277.0	23.3	20.9	-63.91	55.8	-349.9	231.0	188.0	42.99	5.373		
6,400.0	6,394.4	6,391.1	6,376.5	23.7	21.3	-64.13	57.3	-358.6	236.2	192.4	43.75	5.398		
6,500.0	6,494.3	6,491.0	6,476.0	24.1	21.7	-64.34	58.8	-367.3	241.4	196.9	44.53	5.421		
6,600.0	6,594.1	6,590.9	6,575.4	24.5	22.1	-64.55	60.3	-376.0	246.6	201.3	45.30	5.443		
6,700.0	6,693.9	6,690.7	6,674.9	24.9	22.5	-64.74	61.8	-384.7	251.8	205.7	46.08	5.464		
6,800.0	6,793.8	6,790.6	6,774.4	25.3	22.9	-64.93	63.3	-393.5	257.0	210.2	46.87	5.484		
6,900.0	6,893.6	6,890.4	6,873.8	25.7	23.4	-65.11	64.9	-402.2	262.3	214.6	47.65	5.503		
7,000.0	6,993.4	6,990.3	6,973.3	26.1	23.8	-65.28	66.4	-410.9	267.5	219.0	48.45	5.521		
7,100.0	7,093.3	7,090.2	7,072.8	26.5	24.2	-65.45	67.9	-419.6	272.7	223.5	49.24	5.538		
7,200.0	7,193.1	7,190.0	7,172.2	26.9	24.6	-65.61	69.4	-428.3	277.9	227.9	50.04	5.554		
7,300.0	7,292.9	7,289.9	7,271.7	27.3	25.1	-65.76	70.9	-437.1	283.2	232.3	50.84	5.570		
7,356.4	7,349.2	7,346.2	7,327.8	27.5	25.3	-65.85	71.8	-442.0	286.1	234.8	51.29	5.578		
7,400.0	7,392.8	7,389.7	7,371.2	27.6	25.5	19.20	72.5	-445.8	287.8	236.3	51.54	5.584		
7,450.0	7,442.6	7,439.4	7,420.7	27.6	25.6	50.97	73.2	-450.1	288.3	236.7	51.62	5.585		
7,500.0	7,491.8	7,487.5	7,468.5	27.6	25.7	60.27	73.9	-454.3	287.5	235.8	51.63	5.568		
7,550.0	7,540.2	7,524.9	7,505.7	27.6	25.7	65.29	73.2	-458.1	286.8	235.4	51.42	5.577		
7,555.2	7,545.2	7,528.8	7,509.6	27.6	25.7	65.72	72.9	-458.5	286.8	235.4	51.40	5.580		
7,600.0	7,587.2	7,562.4	7,542.9	27.6	25.7	69.00	70.1	-462.6	287.3	236.1	51.18	5.613		
7,650.0	7,632.7	7,600.0	7,579.6	27.6	25.7	72.11	64.7	-468.0	289.0	238.1	50.92	5.676		
7,700.0	7,676.1	7,638.4	7,616.7	27.6	25.8	74.95	56.8	-474.4	292.2	241.5	50.70	5.764		
7,750.0	7,717.3	7,676.8	7,653.0	27.6	25.8	77.56	46.6	-481.5	297.0	246.4	50.54	5.876		
7,800.0	7,755.8	7,715.5	7,688.7	27.6	25.8	79.99	34.0	-489.4	303.3	252.9	50.45	6.012		
7,850.0	7,791.4	7,754.6	7,723.7	27.7	25.8	82.25	18.9	-498.1	311.4	260.9	50.45	6.172		
7,900.0	7,823.8	7,794.2	7,757.9	27.7	25.8	84.32	1.4	-507.7	321.1	270.6	50.54	6.354		
7,950.0	7,852.8	7,834.2	7,791.0	27.7	25.9	86.20	-18.6	-518.1	332.5	281.8	50.68	6.561		
8,000.0	7,878.1	7,874.9	7,822.9	27.7	25.9	87.88	-41.1	-529.2	345.5	294.7	50.87	6.792		
8,050.0	7,899.6	7,916.3	7,853.6	27.7	25.9	89.36	-66.3	-541.2	360.0	309.0	51.07	7.050		
8,100.0	7,917.1	7,958.6	7,882.7	27.7	26.0	90.64	-94.1	-554.1	376.0	324.7	51.25	7.336		
8,150.0	7,930.4	8,001.9	7,910.1	27.7	26.0	91.72	-124.6	-567.8	393.2	341.8	51.39	7.651		
8,200.0	7,939.4	8,046.3	7,935.6	27.7	26.0	92.62	-158.1	-582.3	411.4	360.0	51.47	7.994		
8,250.0	7,944.2	8,092.3	7,958.8	27.7	26.1	93.35	-194.5	-597.7	430.7	379.2	51.48	8.366		
8,280.9	7,945.0	8,121.5	7,972.0	27.7	26.1	93.72	-218.6	-607.7	442.9	391.5	51.45	8.608		
8,300.0	7,944.9	8,140.1	7,979.7	27.7	26.1	94.73	-234.3	-614.2	450.6	399.2	51.43	8.763		
8,400.0	7,944.7	8,246.6	8,012.7	27.7	26.2	98.54	-328.3	-651.5	490.1	438.8	51.29	9.555		
8,500.0	7,944.5	8,364.5	8,026.9	27.7	26.3	99.49	-437.6	-692.6	526.2	474.7	51.41	10.234		
8,600.0	7,944.3	8,481.6	8,026.9	27.8	26.4	98.85	-548.2	-730.8	557.9	506.2	51.77	10.777		
8,700.0	7,944.1	8,601.1	8,026.8	28.0	26.5	98.33	-662.8	-765.1	585.9	533.7	52.16	11.232		
8,800.0	7,943.9	8,723.5	8,026.6	28.2	26.6	97.93	-781.3	-795.3	609.8	557.2	52.59	11.596		
8,900.0	7,943.7	8,848.2	8,026.5	28.4	26.8	97.63	-903.4	-820.8	629.5	576.5	53.04	11.868		

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



Intrepid
Anticollision Report



Company: Concho Resources, Inc.
Project: Eddy County (NAD27 NME)
Reference Site: (SRO 4 State Com) Sec-4_T-26-S_R-28-E
Site Error: 0.0 usft
Reference Well: SRO 4 State Com #502H
Well Error: 0.0 usft
Reference Wellbore: OWB
Reference Design: Plan #1

Local Co-ordinate Reference: Well SRO 4 State Com #502H
TVD Reference: KB @ 3020.9usft (Precision 106)
MD Reference: KB @ 3020.9usft (Precision 106)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM 5000.15 Single User Db
Offset TVD Reference: Offset Datum

Offset Design:(SRO 4 State Com) Sec-4_T-26-S_R-28-E - SRO 4 State Com #503H - OWB - Plan #1

Survey Program: 0-MWD, 7484-MWD+IFR1+MS										Rule Assigned:				Offset Site Error: 0.0 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	Offset Well Error: 0.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N-S (usft)	+E-W (usft)							
9,000.0	7,943.5	8,975.0	8,026.4	28.6	27.0	97.40	-1,028.5	-841.2	645.0	591.5	53.53	12.050			
9,100.0	7,943.3	9,103.2	8,026.2	28.8	27.2	97.25	-1,155.9	-856.3	656.1	602.1	54.04	12.142			
9,200.0	7,943.1	9,232.5	8,026.1	29.0	27.4	97.17	-1,284.8	-865.6	662.8	608.2	54.57	12.146			
9,300.0	7,942.9	9,362.4	8,026.0	29.3	27.7	97.15	-1,414.6	-869.2	665.0	609.9	55.11	12.065			
9,305.0	7,942.9	9,368.9	8,026.0	29.3	27.7	97.15	-1,421.1	-869.2	665.0	609.8	55.14	12.059			
9,400.0	7,942.7	9,461.9	8,025.9	29.6	27.9	97.16	-1,514.1	-869.7	665.0	609.3	55.71	11.937			
9,500.0	7,942.5	9,561.9	8,025.8	29.9	28.2	97.16	-1,614.1	-870.3	665.0	608.7	56.34	11.804			
9,600.0	7,942.3	9,661.9	8,025.7	30.2	28.5	97.17	-1,714.1	-870.8	665.0	608.0	57.00	11.667			
9,700.0	7,942.1	9,761.9	8,025.6	30.5	28.8	97.18	-1,814.1	-871.3	665.0	607.3	57.70	11.526			
9,800.0	7,941.9	9,861.9	8,025.5	30.9	29.1	97.19	-1,914.1	-871.9	665.0	606.6	58.43	11.383			
9,900.0	7,941.7	9,961.9	8,025.4	31.3	29.5	97.20	-2,014.1	-872.4	665.1	605.9	59.19	11.237			
10,000.0	7,941.5	10,061.9	8,025.3	31.6	29.8	97.21	-2,114.1	-873.0	665.1	605.1	59.97	11.090			
10,100.0	7,941.3	10,161.9	8,025.2	32.0	30.2	97.22	-2,214.1	-873.5	665.1	604.3	60.79	10.941			
10,200.0	7,941.1	10,261.9	8,025.1	32.4	30.6	97.23	-2,314.1	-874.1	665.1	603.5	61.63	10.791			
10,300.0	7,940.9	10,361.9	8,025.0	32.9	31.1	97.23	-2,414.1	-874.6	665.1	602.6	62.50	10.641			
10,400.0	7,940.7	10,461.9	8,024.9	33.3	31.5	97.24	-2,514.1	-875.1	665.1	601.7	63.40	10.491			
10,500.0	7,940.5	10,561.9	8,024.8	33.7	31.9	97.25	-2,614.1	-875.7	665.2	600.8	64.32	10.342			
10,600.0	7,940.3	10,661.9	8,024.7	34.2	32.4	97.26	-2,714.1	-876.2	665.2	599.9	65.26	10.193			
10,700.0	7,940.1	10,761.9	8,024.6	34.6	32.9	97.27	-2,814.1	-876.8	665.2	599.0	66.22	10.045			
10,800.0	7,939.9	10,861.9	8,024.5	35.1	33.4	97.28	-2,914.1	-877.3	665.2	598.0	67.21	9.898			
10,900.0	7,939.7	10,961.9	8,024.4	35.6	33.9	97.29	-3,014.1	-877.8	665.2	597.0	68.21	9.752			
11,000.0	7,939.5	11,061.9	8,024.2	36.1	34.4	97.29	-3,114.1	-878.4	665.2	596.0	69.24	9.608			
11,100.0	7,939.3	11,161.9	8,024.1	36.6	34.9	97.30	-3,214.1	-878.9	665.2	595.0	70.28	9.466			
11,200.0	7,939.1	11,261.9	8,024.0	37.1	35.4	97.31	-3,314.1	-879.5	665.3	593.9	71.34	9.325			
11,300.0	7,938.9	11,361.9	8,023.9	37.6	36.0	97.32	-3,414.1	-880.0	665.3	592.9	72.41	9.187			
11,400.0	7,938.7	11,461.9	8,023.8	38.2	36.5	97.33	-3,514.1	-880.6	665.3	591.8	73.51	9.051			
11,500.0	7,938.5	11,561.9	8,023.7	38.7	37.1	97.34	-3,614.1	-881.1	665.3	590.7	74.62	8.916			
11,600.0	7,938.3	11,661.9	8,023.6	39.2	37.6	97.35	-3,714.1	-881.6	665.3	589.6	75.74	8.784			
11,700.0	7,938.1	11,761.9	8,023.5	39.8	38.2	97.35	-3,814.1	-882.2	665.3	588.5	76.87	8.655			
11,800.0	7,937.9	11,861.9	8,023.4	40.3	38.8	97.36	-3,914.1	-882.7	665.3	587.3	78.03	8.527			
11,900.0	7,937.7	11,961.9	8,023.3	40.9	39.4	97.37	-4,014.1	-883.3	665.4	586.2	79.19	8.402			
12,000.0	7,937.5	12,061.9	8,023.2	41.5	39.9	97.38	-4,114.1	-883.8	665.4	585.0	80.36	8.280			
12,100.0	7,937.3	12,161.9	8,023.1	42.1	40.5	97.39	-4,214.1	-884.4	665.4	583.8	81.55	8.159			
12,200.0	7,937.1	12,261.9	8,023.0	42.6	41.1	97.40	-4,314.1	-884.9	665.4	582.7	82.75	8.041			
12,300.0	7,936.9	12,361.9	8,022.9	43.2	41.7	97.41	-4,414.1	-885.4	665.4	581.5	83.96	7.926			
12,400.0	7,936.7	12,461.9	8,022.8	43.8	42.4	97.41	-4,514.1	-886.0	665.4	580.3	85.18	7.812			
12,500.0	7,936.5	12,561.9	8,022.7	44.4	43.0	97.42	-4,614.1	-886.5	665.4	579.0	86.41	7.701			
12,600.0	7,936.3	12,661.9	8,022.6	45.0	43.6	97.43	-4,714.1	-887.1	665.5	577.8	87.65	7.593			
12,700.0	7,936.1	12,761.9	8,022.5	45.6	44.2	97.44	-4,814.1	-887.6	665.5	576.6	88.89	7.486			
12,800.0	7,935.9	12,861.9	8,022.4	46.2	44.8	97.45	-4,914.1	-888.2	665.5	575.3	90.15	7.382			
12,900.0	7,935.7	12,961.9	8,022.3	46.9	45.5	97.46	-5,014.1	-888.7	665.5	574.1	91.42	7.280			
13,000.0	7,935.5	13,061.9	8,022.2	47.5	46.1	97.47	-5,114.1	-889.2	665.5	572.8	92.69	7.180			
13,100.0	7,935.3	13,161.9	8,022.1	48.1	46.8	97.47	-5,214.1	-889.8	665.5	571.6	93.97	7.083			
13,200.0	7,935.1	13,261.9	8,022.0	48.7	47.4	97.48	-5,314.1	-890.3	665.6	570.3	95.26	6.987			
13,300.0	7,934.9	13,361.9	8,021.9	49.4	48.1	97.49	-5,414.1	-890.9	665.6	569.0	96.55	6.893			
13,400.0	7,934.7	13,461.9	8,021.8	50.0	48.7	97.50	-5,514.1	-891.4	665.6	567.7	97.85	6.802			
13,500.0	7,934.5	13,561.9	8,021.7	50.7	49.4	97.51	-5,614.1	-892.0	665.6	566.4	99.16	6.712			
13,600.0	7,934.3	13,661.9	8,021.6	51.3	50.0	97.52	-5,714.1	-892.5	665.6	565.1	100.48	6.625			
13,700.0	7,934.0	13,761.9	8,021.5	52.0	50.7	97.53	-5,814.1	-893.0	665.6	563.8	101.80	6.539			
13,800.0	7,933.8	13,861.9	8,021.4	52.6	51.4	97.53	-5,914.1	-893.6	665.6	562.5	103.12	6.455			
13,900.0	7,933.6	13,961.9	8,021.3	53.3	52.0	97.54	-6,014.1	-894.1	665.7	561.2	104.45	6.373			
14,000.0	7,933.4	14,061.9	8,021.2	53.9	52.7	97.55	-6,114.1	-894.7	665.7	559.9	105.79	6.292			

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



Intrepid
Anticollision Report



Company: Concho Resources, Inc.
Project: Eddy County (NAD27 NME)
Reference Site: (SRO 4 State Com) Sec-4_T-26-S_R-28-E
Site Error: 0.0 usft
Reference Well: SRO 4 State Com #502H
Well Error: 0.0 usft
Reference Wellbore: OWB
Reference Design: Plan #1

Local Co-ordinate Reference: Well SRO 4 State Com #502H
TVD Reference: KB @ 3020.9usft (Precision 106)
MD Reference: KB @ 3020.9usft (Precision 106)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM 5000.15 Single User Db
Offset TVD Reference: Offset Datum

Offset Design:(SRO 4 State Com) Sec-4_T-26-S_R-28-E - SRO 4 State Com #503H - OWB - Plan #1

Survey Program: 0-MWD, 7484-MWD+IFR1+MS										Rule Assigned:				Offset Site Error:
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	Offset Well Error:
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N-S (usft)	+E-W (usft)						0.0 usft
14,100.0	7,933.2	14,161.9	8,021.1	54.6	53.4	97.56	-6,214.0	-895.2	665.7	558.6	107.13	6.214		
14,200.0	7,933.0	14,261.9	8,021.0	55.2	54.0	97.57	-6,314.0	-895.8	665.7	557.2	108.48	6.137		
14,300.0	7,932.8	14,361.9	8,020.9	55.9	54.7	97.58	-6,414.0	-896.3	665.7	555.9	109.83	6.061		
14,400.0	7,932.6	14,461.9	8,020.8	56.6	55.4	97.59	-6,514.0	-896.8	665.7	554.5	111.19	5.987		
14,500.0	7,932.4	14,561.9	8,020.7	57.2	56.1	97.59	-6,614.0	-897.4	665.8	553.2	112.55	5.915		
14,600.0	7,932.2	14,661.9	8,020.6	57.9	56.8	97.60	-6,714.0	-897.9	665.8	551.8	113.92	5.844		
14,700.0	7,932.0	14,761.9	8,020.5	58.6	57.4	97.61	-6,814.0	-898.5	665.8	550.5	115.29	5.775		
14,800.0	7,931.8	14,861.9	8,020.4	59.3	58.1	97.62	-6,914.0	-899.0	665.8	549.1	116.66	5.707		
14,900.0	7,931.6	14,961.9	8,020.3	59.9	58.8	97.63	-7,014.0	-899.5	665.8	547.8	118.04	5.641		
15,000.0	7,931.4	15,061.9	8,020.2	60.6	59.5	97.64	-7,114.0	-900.1	665.8	546.4	119.42	5.576		
15,100.0	7,931.2	15,161.9	8,020.1	61.3	60.2	97.65	-7,214.0	-900.6	665.8	545.0	120.80	5.512		
15,200.0	7,931.0	15,261.9	8,020.0	62.0	60.9	97.65	-7,314.0	-901.2	665.9	543.7	122.19	5.449		
15,300.0	7,930.8	15,361.9	8,019.9	62.7	61.6	97.66	-7,414.0	-901.7	665.9	542.3	123.58	5.388		
15,400.0	7,930.6	15,461.9	8,019.8	63.4	62.3	97.67	-7,514.0	-902.3	665.9	540.9	124.98	5.328		
15,500.0	7,930.4	15,561.9	8,019.7	64.1	63.0	97.68	-7,614.0	-902.8	665.9	539.5	126.38	5.269		
15,600.0	7,930.2	15,661.9	8,019.6	64.7	63.7	97.69	-7,714.0	-903.3	665.9	538.1	127.78	5.212		
15,700.0	7,930.0	15,761.9	8,019.5	65.4	64.4	97.70	-7,814.0	-903.9	665.9	536.8	129.18	5.155		
15,800.0	7,929.8	15,861.9	8,019.4	66.1	65.1	97.71	-7,914.0	-904.4	666.0	535.4	130.59	5.100		
15,900.0	7,929.6	15,961.9	8,019.3	66.8	65.8	97.71	-8,014.0	-905.0	666.0	534.0	132.00	5.045		
16,000.0	7,929.4	16,061.9	8,019.2	67.5	66.5	97.72	-8,114.0	-905.5	666.0	532.6	133.41	4.992		
16,100.0	7,929.2	16,161.9	8,019.1	68.2	67.2	97.73	-8,214.0	-906.1	666.0	531.2	134.83	4.940		
16,200.0	7,929.0	16,261.9	8,019.0	68.9	67.9	97.74	-8,314.0	-906.6	666.0	529.8	136.24	4.888		
16,300.0	7,928.8	16,361.9	8,018.9	69.6	68.7	97.75	-8,414.0	-907.1	666.0	528.4	137.66	4.838		
16,400.0	7,928.6	16,461.9	8,018.8	70.3	69.4	97.76	-8,514.0	-907.7	666.0	527.0	139.09	4.789		
16,500.0	7,928.4	16,561.9	8,018.7	71.0	70.1	97.77	-8,614.0	-908.2	666.1	525.6	140.51	4.740		
16,600.0	7,928.2	16,661.9	8,018.6	71.7	70.8	97.77	-8,714.0	-908.8	666.1	524.1	141.94	4.693		
16,700.0	7,928.0	16,761.9	8,018.5	72.5	71.5	97.78	-8,814.0	-909.3	666.1	522.7	143.37	4.646		
16,800.0	7,927.8	16,861.9	8,018.4	73.2	72.2	97.79	-8,914.0	-909.9	666.1	521.3	144.80	4.600		
16,900.0	7,927.6	16,961.9	8,018.3	73.9	72.9	97.80	-9,014.0	-910.4	666.1	519.9	146.23	4.555		
17,000.0	7,927.4	17,061.9	8,018.2	74.6	73.7	97.81	-9,114.0	-910.9	666.1	518.5	147.66	4.511		
17,100.0	7,927.2	17,161.9	8,018.1	75.3	74.4	97.82	-9,214.0	-911.5	666.2	517.1	149.10	4.468		
17,200.0	7,927.0	17,261.9	8,018.0	76.0	75.1	97.83	-9,314.0	-912.0	666.2	515.6	150.54	4.425		
17,300.0	7,926.8	17,361.9	8,017.9	76.7	75.8	97.83	-9,414.0	-912.6	666.2	514.2	151.98	4.383		
17,400.0	7,926.6	17,461.9	8,017.8	77.4	76.5	97.84	-9,514.0	-913.1	666.2	512.8	153.42	4.342		
17,500.0	7,926.4	17,561.9	8,017.7	78.2	77.3	97.85	-9,614.0	-913.7	666.2	511.4	154.87	4.302		
17,600.0	7,926.2	17,661.9	8,017.6	78.9	78.0	97.86	-9,714.0	-914.2	666.2	509.9	156.31	4.262		
17,700.0	7,926.0	17,761.9	8,017.5	79.6	78.7	97.87	-9,814.0	-914.7	666.2	508.5	157.76	4.223		
17,800.0	7,925.8	17,861.9	8,017.4	80.3	79.4	97.88	-9,914.0	-915.3	666.3	507.1	159.21	4.185		
17,900.0	7,925.6	17,961.9	8,017.3	81.0	80.2	97.89	-10,014.0	-915.8	666.3	505.6	160.66	4.147		
18,000.0	7,925.4	18,061.9	8,017.2	81.7	80.9	97.89	-10,114.0	-916.4	666.3	504.2	162.11	4.110		
18,100.0	7,925.2	18,161.9	8,017.1	82.5	81.6	97.90	-10,214.0	-916.9	666.3	502.8	163.56	4.074		
18,186.0	7,925.0	18,247.9	8,017.0	83.1	82.2	97.91	-10,300.0	-917.4	666.3	501.5	164.81	4.043		
18,186.8	7,925.0	18,248.7	8,017.0	83.1	82.2	97.91	-10,300.8	-917.4	666.3	501.5	164.82	4.043		



Intrepid
Anticollision Report



Company: Concho Resources, Inc.
Project: Eddy County (NAD27 NME)
Reference Site: (SRO 4 State Com) Sec-4_T-26-S_R-28-E
Site Error: 0.0 usft
Reference Well: SRO 4 State Com #502H
Well Error: 0.0 usft
Reference Wellbore: OWB
Reference Design: Plan #1

Local Co-ordinate Reference: Well SRO 4 State Com #502H
TVD Reference: KB @ 3020.9usft (Precision 106)
MD Reference: KB @ 3020.9usft (Precision 106)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM 5000.15 Single User Db
Offset TVD Reference: Offset Datum

Offset Design:(SRO 4 State Com) Sec-4_T-26-S_R-28-E - TEDDY GRAHAM STATE COM #1 (OFFSET) - OWB - AWB

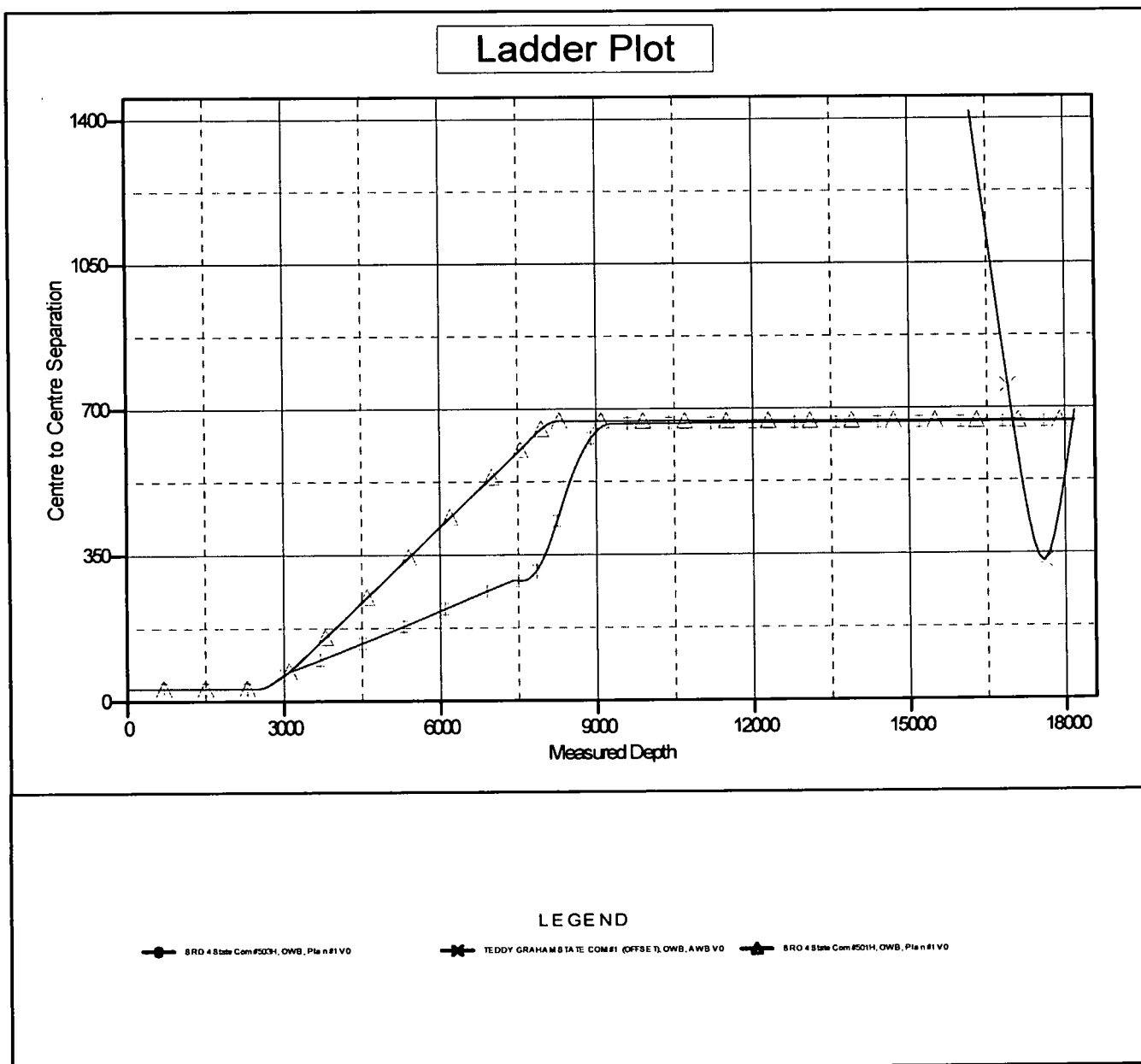
Survey Program: 207-INC-ONLY										Rule Assigned:				Offset Site Error:
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	Offset Well Error:
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)						0.0 usft
16,200.0	7,929.0	7,974.0	7,971.9	68.9	179.2	88.88	-9,693.5	-584.3	1,416.9	1,204.3	212.55	6.666		
16,300.0	7,928.8	7,974.5	7,972.3	69.6	179.2	88.96	-9,693.5	-584.3	1,319.8	1,106.7	213.11	6.193		
16,400.0	7,928.6	7,974.9	7,972.8	70.3	179.2	89.04	-9,693.5	-584.3	1,223.3	1,009.5	213.80	5.721		
16,500.0	7,928.4	7,975.4	7,973.2	71.0	179.2	89.12	-9,693.5	-584.3	1,127.3	912.6	214.65	5.252		
16,600.0	7,928.2	7,975.8	7,973.7	71.7	179.2	89.20	-9,693.5	-584.3	1,032.1	816.4	215.71	4.785		
16,700.0	7,928.0	7,976.3	7,974.2	72.5	179.2	89.28	-9,693.5	-584.3	937.9	720.8	217.06	4.321		
16,800.0	7,927.8	7,976.8	7,974.6	73.2	179.3	89.36	-9,693.5	-584.3	845.0	626.2	218.80	3.862		
16,900.0	7,927.6	7,977.2	7,975.1	73.9	179.3	89.44	-9,693.5	-584.3	754.0	532.9	221.08	3.410		
17,000.0	7,927.4	7,977.7	7,975.6	74.6	179.3	89.52	-9,693.5	-584.3	665.5	441.4	224.11	2.970		
17,100.0	7,927.2	7,978.2	7,976.0	75.3	179.3	89.60	-9,693.5	-584.3	580.8	352.7	228.16	2.546		
17,200.0	7,927.0	7,978.6	7,976.5	76.0	179.3	89.69	-9,693.6	-584.3	501.8	268.3	233.53	2.149		
17,300.0	7,926.8	7,979.1	7,977.0	76.7	179.3	89.77	-9,693.6	-584.3	431.5	191.1	240.41	1.795		
17,400.0	7,926.6	7,979.6	7,977.5	77.4	179.3	89.85	-9,693.6	-584.3	375.0	126.7	248.33	1.510		
17,500.0	7,926.4	7,980.1	7,978.0	78.2	179.3	89.94	-9,693.6	-584.3	339.2	83.9	255.32	1.329 Level 3		
17,577.9	7,926.2	7,980.5	7,978.4	78.7	179.3	90.01	-9,693.6	-584.3	330.2	72.2	258.01	1.280 Level 3, CC, ES, SF		
17,600.0	7,926.2	7,980.6	7,978.5	78.9	179.3	90.03	-9,693.6	-584.3	330.9	72.8	258.14	1.282 Level 3		
17,700.0	7,926.0	7,981.1	7,979.0	79.6	179.3	90.11	-9,693.6	-584.3	352.0	96.7	255.37	1.378 Level 3		
17,800.0	7,925.8	7,981.6	7,979.5	80.3	179.3	90.20	-9,693.6	-584.3	397.9	148.7	249.26	1.596		
17,900.0	7,925.6	7,982.1	7,980.0	81.0	179.4	90.29	-9,693.6	-584.3	461.3	218.6	242.68	1.901		
18,000.0	7,925.4	7,982.6	7,980.5	81.7	179.4	90.37	-9,693.6	-584.3	535.9	298.9	237.01	2.261		
18,100.0	7,925.2	7,983.1	7,981.0	82.5	179.4	90.46	-9,693.6	-584.3	617.8	385.2	232.51	2.657		
18,186.0	7,925.0	7,983.6	7,981.4	83.1	179.4	90.54	-9,693.6	-584.3	692.0	462.5	229.48	3.016		
18,186.8	7,925.0	7,983.6	7,981.4	83.1	179.4	90.54	-9,693.6	-584.3	692.7	463.2	229.46	3.019		

Company: Concho Resources, Inc.
Project: Eddy County (NAD27 NME)
Reference Site: (SRO 4 State Com) Sec-4_T-26-S_R-28-E
Site Error: 0.0 usft
Reference Well: SRO 4 State Com #502H
Well Error: 0.0 usft
Reference Wellbore: OWB
Reference Design: Plan #1

Local Co-ordinate Reference: Well SRO 4 State Com #502H
TVD Reference: KB @ 3020.9usft (Precision 106)
MD Reference: KB @ 3020.9usft (Precision 106)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM 5000.15 Single User Db
Offset TVD Reference: Offset Datum

Reference Depths are relative to KB @ 3020.9usft (Precision 106)
 Offset Depths are relative to Offset Datum
 Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: SRO 4 State Com #502H
 Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
 Grid Convergence at Surface is: 0.13°



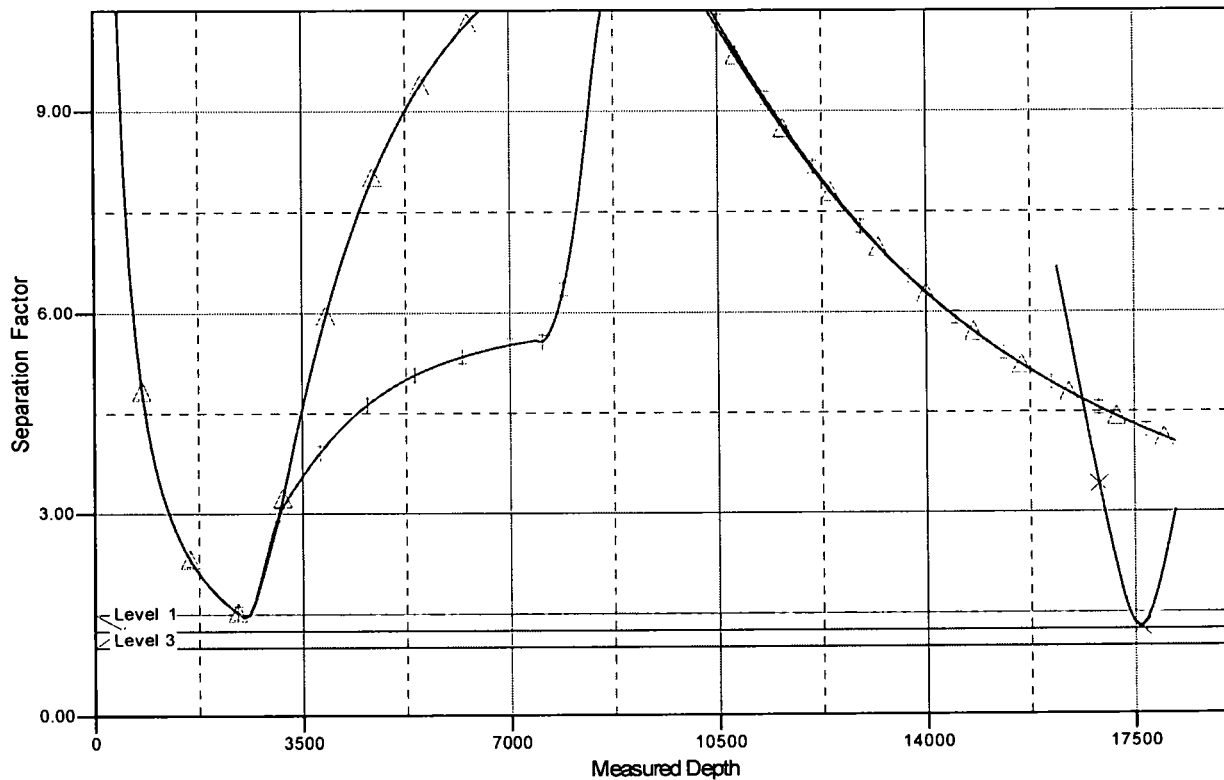
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 Grid Convergence at Surface is: 0.13°

Separation Factor Plot



LEGEND

—●— SRO 4 State Com #502H, OWB, Plan #1 V0

—X— TEDDY GRAHAM STATE COM #1 (OFFSET), OWB, AWW V0

—△— SRO 4 State Com #502H, OWB, Plan #1 V0