



CONCHO

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 #503H

OWB
Plan #1

30-015. 45549

Anticollision Report

11 December, 2018

 **INTREPID**



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 #503H
Well Error: 0.0 usft
Reference Wellbore: OWB
Reference Design: Plan #1

Local Co-ordinate Reference: Well SRO 4 State Com #503H
TVD Reference: KB @ 3021.2usft (Precision 106)
MD Reference: KB @ 3021.2usft (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
Depth Range:	Unlimited
Results Limited by:	Maximum center-center distance of 1,500.0 usft
Warning Levels Evaluated at:	2.00 Sigma
Error Model:	ISCWSA
Scan Method:	Closest Approach 3D
Error Surface:	Pedal Curve
Casing Method:	Not applied

Survey Tool Program		Date	12/11/18		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	7,484.0	Plan #1 (OWB)	MWD	OWSG MWD - Standard	
7,484.0	18,252.3	Plan #1 (OWB)	MWD+IFR1+MS	MWD + IFR1 + Multi-Station Correction	

Summary	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Site Name						
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	2,499.5	60.0	39.4	2.913	CC, ES, SF
SRO 4 State Com #502H - OWB - Plan #1	2,500.0	2,499.7	30.0	9.4	1.456	Level 3, CC, ES, SF
TEDDY GRAHAM STATE COM #1 (OFFSET) - OWB - A	17,640.0	8,071.6	329.8	71.2	1.276	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												Offset Site Error:	0.0 usft
Survey Program: 0-MWD, 7488-MWD+IFR1+MS												Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis	Highside	Rule Assigned:				Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	Offset Wellbore Centre	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
							+N/-S (usft)	+E/-W (usft)					
0.0	0.0	0.0	0.0	0.0	0.0	90.00	0.0	60.0	60.0				
100.0	100.0	99.5	99.5	0.1	0.1	90.00	0.0	60.0	60.0	59.7	0.29	206.033	
200.0	200.0	199.5	199.5	0.6	0.6	90.00	0.0	60.0	60.0	58.9	1.14	52.815	
300.0	300.0	299.5	299.5	1.0	1.0	90.00	0.0	60.0	60.0	58.0	1.98	30.268	
400.0	400.0	399.5	399.5	1.4	1.4	90.00	0.0	60.0	60.0	57.2	2.83	21.213	
500.0	500.0	499.5	499.5	1.8	1.8	90.00	0.0	60.0	60.0	56.3	3.67	16.328	
600.0	600.0	599.5	599.5	2.3	2.3	90.00	0.0	60.0	60.0	55.5	4.52	13.272	
700.0	700.0	699.5	699.5	2.7	2.7	90.00	0.0	60.0	60.0	54.6	5.37	11.179	
800.0	800.0	799.5	799.5	3.1	3.1	90.00	0.0	60.0	60.0	53.8	6.21	9.657	
900.0	900.0	899.5	899.5	3.5	3.5	90.00	0.0	60.0	60.0	52.9	7.06	8.499	
1,000.0	1,000.0	999.5	999.5	4.0	4.0	90.00	0.0	60.0	60.0	52.1	7.91	7.589	
1,100.0	1,100.0	1,099.5	1,099.5	4.4	4.4	90.00	0.0	60.0	60.0	51.2	8.75	6.856	
1,200.0	1,200.0	1,199.5	1,199.5	4.8	4.8	90.00	0.0	60.0	60.0	50.4	9.60	6.251	
1,300.0	1,300.0	1,299.5	1,299.5	5.2	5.2	90.00	0.0	60.0	60.0	49.6	10.44	5.745	
1,400.0	1,400.0	1,399.5	1,399.5	5.6	5.6	90.00	0.0	60.0	60.0	48.7	11.29	5.314	
1,500.0	1,500.0	1,499.5	1,499.5	6.1	6.1	90.00	0.0	60.0	60.0	47.9	12.14	4.944	
1,600.0	1,600.0	1,599.5	1,599.5	6.5	6.5	90.00	0.0	60.0	60.0	47.0	12.98	4.621	
1,700.0	1,700.0	1,699.5	1,699.5	6.9	6.9	90.00	0.0	60.0	60.0	46.2	13.83	4.339	
1,800.0	1,800.0	1,799.5	1,799.5	7.3	7.3	90.00	0.0	60.0	60.0	45.3	14.68	4.088	
1,900.0	1,900.0	1,899.5	1,899.5	7.8	7.8	90.00	0.0	60.0	60.0	44.5	15.52	3.866	
2,000.0	2,000.0	1,999.5	1,999.5	8.2	8.2	90.00	0.0	60.0	60.0	43.6	16.37	3.666	
2,100.0	2,100.0	2,099.5	2,099.5	8.6	8.6	90.00	0.0	60.0	60.0	42.8	17.21	3.485	
2,200.0	2,200.0	2,199.5	2,199.5	9.0	9.0	90.00	0.0	60.0	60.0	41.9	18.06	3.322	

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



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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: 0.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Offset Well Error: 0.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (")	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
2,300.0	2,300.0	2,299.5	2,299.5	9.5	9.5	90.00	0.0	60.0	60.0	41.1	18.91	3.173	
2,400.0	2,400.0	2,399.5	2,399.5	9.9	9.9	90.00	0.0	60.0	60.0	40.2	19.75	3.038	
2,500.0	2,500.0	2,499.5	2,499.5	10.3	10.3	90.00	0.0	60.0	60.0	39.4	20.60	2.913 CC, ES, SF	
2,600.0	2,600.0	2,597.5	2,597.5	10.5	10.5	169.76	0.7	61.5	63.3	42.2	21.06	3.004	
2,700.0	2,699.8	2,694.9	2,694.8	10.6	10.6	168.87	2.7	66.1	73.1	51.9	21.17	3.453	
2,754.2	2,753.9	2,747.3	2,747.0	10.6	10.7	168.29	4.3	69.7	81.1	59.9	21.23	3.821	
2,800.0	2,799.5	2,792.4	2,791.9	10.6	10.8	167.86	5.9	73.3	88.7	67.4	21.31	4.165	
2,900.0	2,899.1	2,891.0	2,890.1	10.7	10.9	167.14	9.3	81.1	105.4	83.9	21.50	4.901	
3,000.0	2,998.7	2,989.6	2,988.3	10.8	11.0	166.61	12.8	88.8	122.0	100.3	21.72	5.617	
3,100.0	3,098.3	3,088.2	3,086.6	10.9	11.2	166.21	16.2	96.6	138.7	116.7	21.97	6.310	
3,200.0	3,197.9	3,186.8	3,184.8	11.0	11.4	165.90	19.7	104.4	155.3	133.0	22.26	6.978	
3,300.0	3,297.5	3,285.4	3,283.0	11.2	11.6	165.64	23.1	112.2	172.0	149.4	22.57	7.620	
3,400.0	3,397.1	3,384.0	3,381.3	11.4	11.8	165.43	26.6	119.9	188.6	165.7	22.90	8.235	
3,500.0	3,496.7	3,482.6	3,479.5	11.6	12.0	165.26	30.0	127.7	205.3	182.0	23.27	8.822	
3,600.0	3,596.3	3,581.2	3,577.8	11.8	12.2	165.11	33.5	135.5	221.9	198.3	23.66	9.381	
3,700.0	3,695.9	3,679.8	3,676.0	12.0	12.5	164.98	36.9	143.2	238.6	214.5	24.07	9.912	
3,800.0	3,795.6	3,778.4	3,774.2	12.2	12.8	164.87	40.4	151.0	255.3	230.7	24.51	10.415	
3,900.0	3,895.2	3,877.0	3,872.5	12.5	13.0	164.77	43.8	158.8	271.9	246.9	24.97	10.892	
4,000.0	3,994.8	3,975.6	3,970.7	12.7	13.3	164.69	47.3	166.5	288.6	263.1	25.44	11.342	
4,100.0	4,094.4	4,074.2	4,068.9	13.0	13.6	164.61	50.7	174.3	305.2	279.3	25.94	11.767	
4,200.0	4,194.0	4,172.8	4,167.2	13.3	13.9	164.54	54.1	182.1	321.9	295.4	26.46	12.168	
4,300.0	4,293.6	4,271.4	4,265.4	13.6	14.2	164.48	57.6	189.9	338.6	311.6	26.99	12.545	
4,400.0	4,393.2	4,370.0	4,363.6	13.9	14.5	164.42	61.0	197.6	355.2	327.7	27.54	12.900	
4,500.0	4,492.8	4,468.6	4,461.9	14.2	14.9	164.37	64.5	205.4	371.9	343.8	28.10	13.234	
4,600.0	4,592.4	4,567.2	4,560.1	14.5	15.2	164.32	67.9	213.2	388.6	359.9	28.68	13.549	
4,700.0	4,692.0	4,665.8	4,658.3	14.8	15.5	164.28	71.4	220.9	405.2	376.0	29.27	13.844	
4,800.0	4,791.6	4,764.4	4,756.6	15.2	15.9	164.24	74.8	228.7	421.9	392.0	29.88	14.122	
4,900.0	4,891.2	4,863.0	4,854.8	15.5	16.2	164.20	78.3	236.5	438.6	408.1	30.49	14.383	
5,000.0	4,990.8	4,961.6	4,953.0	15.9	16.6	164.17	81.7	244.2	455.2	424.1	31.12	14.629	
5,100.0	5,090.4	5,060.2	5,051.3	16.2	17.0	164.14	85.2	252.0	471.9	440.1	31.76	14.860	
5,200.0	5,190.0	5,158.8	5,149.5	16.6	17.3	164.11	88.6	259.8	488.6	456.2	32.40	15.077	
5,300.0	5,289.7	5,257.4	5,247.7	17.0	17.7	164.08	92.1	267.6	505.2	472.2	33.06	15.281	
5,400.0	5,389.3	5,356.0	5,346.0	17.3	18.1	164.06	95.5	275.3	521.9	488.2	33.73	15.473	
5,500.0	5,488.9	5,454.6	5,444.2	17.7	18.5	164.03	98.9	283.1	538.6	504.2	34.40	15.655	
5,600.0	5,588.5	5,553.2	5,542.4	18.1	18.8	164.01	102.4	290.9	555.2	520.1	35.09	15.825	
5,700.0	5,688.1	5,651.8	5,640.7	18.5	19.2	163.99	105.8	298.6	571.9	536.1	35.77	15.986	
5,800.0	5,787.7	5,750.4	5,738.9	18.9	19.6	163.97	109.3	306.4	588.6	552.1	36.47	16.138	
5,900.0	5,887.3	5,849.0	5,837.1	19.3	20.0	163.95	112.7	314.2	605.2	568.1	37.17	16.281	
6,000.0	5,986.9	5,947.6	5,935.4	19.7	20.4	163.93	116.2	321.9	621.9	584.0	37.88	16.416	
6,100.0	6,086.5	6,046.2	6,033.6	20.1	20.8	163.91	119.6	329.7	638.6	600.0	38.60	16.543	
6,200.0	6,186.1	6,144.8	6,131.8	20.5	21.2	163.90	123.1	337.5	655.2	615.9	39.32	16.664	
6,300.0	6,285.7	6,243.4	6,230.1	20.9	21.6	163.88	126.5	345.3	671.9	631.8	40.05	16.778	
6,400.0	6,385.3	6,342.0	6,328.3	21.3	22.0	163.87	130.0	353.0	688.6	647.8	40.78	16.886	
6,500.0	6,484.9	6,440.6	6,426.5	21.7	22.4	163.85	133.4	360.8	705.2	663.7	41.51	16.988	
6,600.0	6,584.5	6,539.2	6,524.8	22.1	22.8	163.84	136.9	368.6	721.9	679.6	42.25	17.085	
6,700.0	6,684.1	6,637.8	6,623.0	22.6	23.3	163.83	140.3	376.3	738.6	695.6	43.00	17.176	
6,800.0	6,783.8	6,736.4	6,721.2	23.0	23.7	163.82	143.7	384.1	755.2	711.5	43.75	17.263	
6,900.0	6,883.4	6,835.0	6,819.5	23.4	24.1	163.80	147.2	391.9	771.9	727.4	44.50	17.346	
7,000.0	6,983.0	6,933.6	6,917.7	23.8	24.5	163.79	150.6	399.6	788.6	743.3	45.26	17.425	
7,100.0	7,082.6	7,032.2	7,015.9	24.2	24.9	163.78	154.1	407.4	805.2	759.2	46.02	17.499	
7,200.0	7,182.2	7,130.8	7,114.2	24.7	25.3	163.77	157.5	415.2	821.9	775.1	46.78	17.570	
7,300.0	7,281.8	7,229.4	7,212.4	25.1	25.8	163.76	161.0	423.0	838.6	791.0	47.55	17.637	

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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)				
7,400.0	7,381.4	7,328.0	7,310.6	25.5	26.2	163.75	164.4	430.7	855.2	806.9	48.31	17.702		
7,484.0	7,465.1	7,410.9	7,393.2	25.7	26.6	163.74	167.3	437.3	869.2	820.5	48.78	17.819		
7,500.0	7,481.0	7,426.6	7,408.9	25.7	26.6	-179.73	167.9	438.5	872.0	823.2	48.85	17.852		
7,550.0	7,530.6	7,475.5	7,457.6	25.7	26.8	-149.31	169.6	442.3	881.9	832.8	49.04	17.982		
7,600.0	7,579.6	7,532.1	7,514.0	25.7	26.9	-136.82	169.8	446.8	893.4	844.3	49.15	18.179		
7,650.0	7,627.7	7,592.1	7,573.5	25.8	26.9	-130.19	164.1	451.5	906.2	857.0	49.19	18.424		
7,700.0	7,674.5	7,652.5	7,632.5	25.8	26.9	-125.81	152.1	456.1	920.1	870.8	49.22	18.694		
7,750.0	7,719.7	7,713.4	7,690.3	25.8	26.9	-122.42	133.8	460.5	934.9	885.6	49.24	18.985		
7,800.0	7,762.8	7,774.4	7,746.1	25.8	26.9	-119.52	109.3	464.8	950.6	901.3	49.26	19.297		
7,850.0	7,803.6	7,835.6	7,799.1	25.9	27.0	-116.85	79.0	468.8	967.0	917.7	49.27	19.625		
7,900.0	7,841.7	7,896.9	7,848.5	25.9	27.0	-114.29	43.1	472.5	984.0	934.7	49.28	19.966		
7,950.0	7,877.0	7,958.1	7,893.9	25.9	27.0	-111.79	2.2	475.9	1,001.6	952.3	49.30	20.316		
8,000.0	7,909.0	8,019.2	7,934.6	26.0	27.0	-109.30	-43.3	478.9	1,019.5	970.2	49.32	20.671		
8,050.0	7,937.5	8,080.2	7,970.1	26.0	27.0	-106.83	-92.7	481.4	1,037.7	988.3	49.35	21.026		
8,100.0	7,962.4	8,141.0	8,000.2	26.1	27.0	-104.37	-145.6	483.5	1,056.0	1,006.6	49.40	21.379		
8,150.0	7,983.5	8,201.7	8,024.4	26.1	27.0	-101.93	-201.1	485.1	1,074.3	1,024.9	49.45	21.725		
8,200.0	8,000.5	8,262.2	8,042.6	26.2	27.0	-99.53	-258.8	486.3	1,092.5	1,043.0	49.52	22.060		
8,250.0	8,013.4	8,322.5	8,054.7	26.2	27.0	-97.18	-317.9	486.9	1,110.4	1,060.8	49.61	22.382		
8,300.0	8,022.1	8,382.7	8,060.4	26.2	27.0	-94.89	-377.7	487.0	1,127.9	1,078.2	49.71	22.689		
8,350.0	8,026.4	8,435.4	8,060.9	26.3	27.0	-92.76	-430.4	486.8	1,144.9	1,095.1	49.81	22.985		
8,375.7	8,027.0	8,459.6	8,060.8	26.3	27.0	-91.79	-454.6	486.7	1,153.6	1,103.8	49.86	23.136		
8,400.0	8,027.0	8,482.5	8,060.8	26.3	27.0	-91.77	-477.5	486.5	1,161.7	1,111.8	49.91	23.276		
8,500.0	8,026.9	8,577.5	8,060.5	26.4	27.0	-91.70	-572.5	486.0	1,192.9	1,142.8	50.14	23.792		
8,600.0	8,026.8	8,673.5	8,060.2	26.5	27.0	-91.64	-668.5	485.5	1,220.8	1,170.4	50.41	24.217		
8,700.0	8,026.6	8,770.4	8,059.9	26.6	27.0	-91.58	-765.4	485.0	1,245.3	1,194.6	50.73	24.550		
8,800.0	8,026.5	8,868.2	8,059.6	26.7	27.0	-91.54	-863.2	484.4	1,266.4	1,215.4	51.08	24.792		
8,900.0	8,026.4	8,966.6	8,059.3	26.9	27.0	-91.50	-961.6	483.9	1,284.1	1,232.7	51.48	24.944		
9,000.0	8,026.3	9,065.5	8,059.1	27.0	27.0	-91.47	-1,060.5	483.3	1,298.4	1,246.5	51.92	25.008		
9,100.0	8,026.2	9,165.0	8,058.8	27.2	27.1	-91.45	-1,160.0	482.8	1,309.2	1,256.8	52.40	24.986		
9,200.0	8,026.1	9,264.7	8,058.5	27.4	27.3	-91.43	-1,259.7	482.3	1,316.5	1,263.6	52.91	24.880		
9,300.0	8,026.0	9,364.6	8,058.2	27.6	27.6	-91.42	-1,359.6	481.7	1,320.3	1,266.9	53.47	24.694		
9,360.2	8,026.0	9,424.8	8,058.0	27.7	27.7	-91.41	-1,419.8	481.4	1,321.0	1,267.1	53.82	24.545		
9,400.0	8,025.9	9,464.6	8,057.9	27.8	27.8	-91.41	-1,459.6	481.2	1,320.9	1,266.9	54.06	24.437		
9,500.0	8,025.8	9,564.6	8,057.6	28.0	28.1	-91.40	-1,559.6	480.6	1,320.9	1,266.3	54.68	24.157		
9,600.0	8,025.7	9,664.6	8,057.3	28.3	28.5	-91.39	-1,659.6	480.1	1,320.9	1,265.6	55.34	23.868		
9,700.0	8,025.6	9,764.6	8,057.0	28.6	28.8	-91.38	-1,759.6	479.5	1,320.9	1,264.9	56.04	23.572		
9,800.0	8,025.5	9,864.6	8,056.7	28.9	29.2	-91.38	-1,859.6	479.0	1,320.9	1,264.1	56.76	23.270		
9,900.0	8,025.4	9,964.6	8,056.4	29.2	29.6	-91.37	-1,959.6	478.4	1,320.9	1,263.4	57.52	22.963		
10,000.0	8,025.3	10,064.6	8,056.1	29.6	29.9	-91.36	-2,059.6	477.9	1,320.9	1,262.6	58.31	22.652		
10,100.0	8,025.2	10,164.6	8,055.8	30.0	30.3	-91.35	-2,159.6	477.3	1,320.9	1,261.7	59.13	22.338		
10,200.0	8,025.1	10,264.6	8,055.5	30.4	30.8	-91.34	-2,259.6	476.8	1,320.9	1,260.9	59.98	22.023		
10,300.0	8,025.0	10,364.6	8,055.3	30.8	31.2	-91.33	-2,359.6	476.2	1,320.8	1,260.0	60.85	21.707		
10,400.0	8,024.9	10,464.6	8,055.0	31.2	31.6	-91.33	-2,459.6	475.7	1,320.8	1,259.1	61.75	21.391		
10,500.0	8,024.8	10,564.6	8,054.7	31.7	32.1	-91.32	-2,559.6	475.1	1,320.8	1,258.2	62.67	21.076		
10,600.0	8,024.7	10,664.6	8,054.4	32.1	32.6	-91.31	-2,659.6	474.6	1,320.8	1,257.2	63.62	20.762		
10,700.0	8,024.6	10,764.6	8,054.1	32.6	33.0	-91.30	-2,759.6	474.0	1,320.8	1,256.2	64.58	20.451		
10,800.0	8,024.5	10,864.6	8,053.8	33.1	33.5	-91.29	-2,859.6	473.5	1,320.8	1,255.2	65.57	20.142		
10,900.0	8,024.4	10,964.6	8,053.5	33.6	34.0	-91.28	-2,959.6	472.9	1,320.8	1,254.2	66.58	19.836		
11,000.0	8,024.3	11,064.6	8,053.2	34.1	34.5	-91.28	-3,059.6	472.4	1,320.8	1,253.2	67.61	19.534		
11,100.0	8,024.2	11,164.6	8,052.9	34.6	35.1	-91.27	-3,159.6	471.8	1,320.8	1,252.1	68.66	19.236		
11,200.0	8,024.1	11,264.6	8,052.6	35.1	35.6	-91.26	-3,259.6	471.3	1,320.8	1,251.0	69.73	18.941		
11,300.0	8,024.0	11,364.6	8,052.3	35.6	36.1	-91.25	-3,359.5	470.7	1,320.7	1,249.9	70.81	18.652		

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 #503H
Well Error: 0.0 usft
Reference Wellbore: OWB
Reference Design: Plan #1

Local Co-ordinate Reference: Well SRO 4 State Com #503H
TVD Reference: KB @ 3021.2usft (Precision 106)
MD Reference: KB @ 3021.2usft (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 (usft)	Offset (usft)	Highside Toolface (°)	+N-S (usft)	+E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
11,400.0	8,023.9	11,464.6	8,052.0	36.2	36.7	-91.24	-3,459.5	470.2	1,320.7	1,248.8	71.91	18.366		
11,500.0	8,023.8	11,564.6	8,051.7	36.7	37.2	-91.23	-3,559.5	469.6	1,320.7	1,247.7	73.02	18.086		
11,600.0	8,023.7	11,664.6	8,051.4	37.3	37.8	-91.23	-3,659.5	469.1	1,320.7	1,246.6	74.15	17.810		
11,700.0	8,023.6	11,764.6	8,051.2	37.8	38.3	-91.22	-3,759.5	468.5	1,320.7	1,245.4	75.30	17.540		
11,800.0	8,023.5	11,864.6	8,050.9	38.4	38.9	-91.21	-3,859.5	468.0	1,320.7	1,244.2	76.45	17.274		
11,900.0	8,023.4	11,964.6	8,050.6	39.0	39.5	-91.20	-3,959.5	467.4	1,320.7	1,243.1	77.62	17.014		
12,000.0	8,023.3	12,064.6	8,050.3	39.6	40.1	-91.19	-4,059.5	466.9	1,320.7	1,241.9	78.81	16.758		
12,100.0	8,023.2	12,164.6	8,050.0	40.2	40.7	-91.18	-4,159.5	466.3	1,320.7	1,240.7	80.00	16.508		
12,200.0	8,023.1	12,264.6	8,049.7	40.8	41.2	-91.18	-4,259.5	465.8	1,320.6	1,239.4	81.21	16.263		
12,300.0	8,023.0	12,364.6	8,049.4	41.4	41.8	-91.17	-4,359.5	465.2	1,320.6	1,238.2	82.42	16.023		
12,400.0	8,022.9	12,464.6	8,049.1	42.0	42.5	-91.16	-4,459.5	464.7	1,320.6	1,237.0	83.65	15.788		
12,500.0	8,022.8	12,564.6	8,048.8	42.6	43.1	-91.15	-4,559.5	464.1	1,320.6	1,235.7	84.88	15.558		
12,600.0	8,022.7	12,664.6	8,048.5	43.2	43.7	-91.14	-4,659.5	463.6	1,320.6	1,234.5	86.13	15.333		
12,700.0	8,022.6	12,764.6	8,048.2	43.8	44.3	-91.13	-4,759.5	463.0	1,320.6	1,233.2	87.38	15.113		
12,800.0	8,022.5	12,864.6	8,047.9	44.5	44.9	-91.13	-4,859.5	462.5	1,320.6	1,231.9	88.65	14.897		
12,900.0	8,022.4	12,964.6	8,047.6	45.1	45.6	-91.12	-4,959.5	461.9	1,320.6	1,230.7	89.92	14.687		
13,000.0	8,022.3	13,064.6	8,047.4	45.7	46.2	-91.11	-5,059.5	461.4	1,320.6	1,229.4	91.20	14.480		
13,100.0	8,022.2	13,164.6	8,047.1	46.4	46.8	-91.10	-5,159.5	460.8	1,320.6	1,228.1	92.48	14.279		
13,200.0	8,022.1	13,264.6	8,046.8	47.0	47.5	-91.09	-5,259.5	460.3	1,320.5	1,226.8	93.78	14.082		
13,300.0	8,022.0	13,364.6	8,046.5	47.7	48.1	-91.08	-5,359.5	459.7	1,320.5	1,225.5	95.08	13.889		
13,400.0	8,021.9	13,464.6	8,046.2	48.3	48.8	-91.08	-5,459.5	459.2	1,320.5	1,224.1	96.39	13.700		
13,500.0	8,021.8	13,564.6	8,045.9	49.0	49.4	-91.07	-5,559.5	458.6	1,320.5	1,222.8	97.70	13.516		
13,600.0	8,021.7	13,664.6	8,045.6	49.6	50.1	-91.06	-5,659.5	458.1	1,320.5	1,221.5	99.02	13.336		
13,700.0	8,021.6	13,764.6	8,045.3	50.3	50.7	-91.05	-5,759.5	457.5	1,320.5	1,220.1	100.35	13.159		
13,800.0	8,021.5	13,864.6	8,045.0	50.9	51.4	-91.04	-5,859.5	457.0	1,320.5	1,218.8	101.68	12.987		
13,900.0	8,021.4	13,964.6	8,044.7	51.6	52.0	-91.03	-5,959.5	456.4	1,320.5	1,217.5	103.01	12.818		
14,000.0	8,021.3	14,064.6	8,044.4	52.3	52.7	-91.03	-6,059.5	455.9	1,320.5	1,216.1	104.36	12.653		
14,100.0	8,021.2	14,164.6	8,044.1	52.9	53.4	-91.02	-6,159.5	455.3	1,320.5	1,214.7	105.71	12.492		
14,200.0	8,021.1	14,264.6	8,043.8	53.6	54.1	-91.01	-6,259.5	454.8	1,320.4	1,213.4	107.06	12.334		
14,300.0	8,021.0	14,364.6	8,043.5	54.3	54.7	-91.00	-6,359.5	454.2	1,320.4	1,212.0	108.41	12.179		
14,400.0	8,020.9	14,464.6	8,043.3	55.0	55.4	-90.99	-6,459.5	453.7	1,320.4	1,210.6	109.78	12.028		
14,500.0	8,020.8	14,564.6	8,043.0	55.7	56.1	-90.98	-6,559.5	453.2	1,320.4	1,209.3	111.14	11.880		
14,600.0	8,020.7	14,664.6	8,042.7	56.3	56.8	-90.98	-6,659.5	452.6	1,320.4	1,207.9	112.51	11.736		
14,700.0	8,020.6	14,764.6	8,042.4	57.0	57.4	-90.97	-6,759.5	452.1	1,320.4	1,206.5	113.89	11.594		
14,800.0	8,020.5	14,864.6	8,042.1	57.7	58.1	-90.96	-6,859.5	451.5	1,320.4	1,205.1	115.27	11.455		
14,900.0	8,020.4	14,964.6	8,041.8	58.4	58.8	-90.95	-6,959.5	451.0	1,320.4	1,203.7	116.65	11.319		
15,000.0	8,020.3	15,064.6	8,041.5	59.1	59.5	-90.94	-7,059.5	450.4	1,320.4	1,202.3	118.03	11.186		
15,100.0	8,020.2	15,164.6	8,041.2	59.8	60.2	-90.93	-7,159.5	449.9	1,320.4	1,200.9	119.42	11.056		
15,200.0	8,020.1	15,264.6	8,040.9	60.5	60.9	-90.93	-7,259.5	449.3	1,320.3	1,199.5	120.81	10.929		
15,300.0	8,020.0	15,364.6	8,040.6	61.2	61.6	-90.92	-7,359.5	448.8	1,320.3	1,198.1	122.21	10.804		
15,400.0	8,019.9	15,464.6	8,040.3	61.9	62.3	-90.91	-7,459.5	448.2	1,320.3	1,196.7	123.61	10.681		
15,500.0	8,019.8	15,564.6	8,040.0	62.6	63.0	-90.90	-7,559.5	447.7	1,320.3	1,195.3	125.01	10.562		
15,600.0	8,019.7	15,664.6	8,039.7	63.3	63.7	-90.89	-7,659.5	447.1	1,320.3	1,193.9	126.42	10.444		
15,700.0	8,019.6	15,764.6	8,039.4	64.0	64.4	-90.88	-7,759.5	446.6	1,320.3	1,192.5	127.82	10.329		
15,800.0	8,019.5	15,864.6	8,039.2	64.7	65.1	-90.88	-7,859.5	446.0	1,320.3	1,191.1	129.23	10.216		
15,900.0	8,019.4	15,964.6	8,038.9	65.4	65.8	-90.87	-7,959.5	445.5	1,320.3	1,189.6	130.65	10.106		
16,000.0	8,019.3	16,064.6	8,038.6	66.1	66.5	-90.86	-8,059.5	444.9	1,320.3	1,188.2	132.06	9.997		
16,100.0	8,019.2	16,164.6	8,038.3	66.8	67.2	-90.85	-8,159.4	444.4	1,320.3	1,186.8	133.48	9.891		
16,200.0	8,019.1	16,264.6	8,038.0	67.5	67.9	-90.84	-8,259.4	443.8	1,320.2	1,185.3	134.90	9.787		
16,300.0	8,019.0	16,364.6	8,037.7	68.2	68.6	-90.83	-8,359.4	443.3	1,320.2	1,183.9	136.32	9.684		
16,400.0	8,018.9	16,464.6	8,037.4	68.9	69.3	-90.83	-8,459.4	442.7	1,320.2	1,182.5	137.75	9.584		
16,500.0	8,018.8	16,564.6	8,037.1	69.6	70.0	-90.82	-8,559.4	442.2	1,320.2	1,181.0	139.18	9.486		

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 #503H
Well Error: 0.0 usft
Reference Wellbore: OWB
Reference Design: Plan #1

Local Co-ordinate Reference: Well SRO 4 State Com #503H
TVD Reference: KB @ 3021.2usft (Precision 106)
MD Reference: KB @ 3021.2usft (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: O-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	8,018.7	16,664.6	8,036.8	70.3	70.7	-90.81	-8,659.4	441.6	1,320.2	1,179.6	140.61	9.389		
16,700.0	8,018.6	16,764.6	8,036.5	71.1	71.4	-90.80	-8,759.4	441.1	1,320.2	1,178.2	142.04	9.295		
16,800.0	8,018.5	16,864.6	8,036.2	71.8	72.2	-90.79	-8,859.4	440.5	1,320.2	1,176.7	143.47	9.202		
16,900.0	8,018.4	16,964.6	8,035.9	72.5	72.9	-90.78	-8,959.4	440.0	1,320.2	1,175.3	144.91	9.110		
17,000.0	8,018.3	17,064.6	8,035.6	73.2	73.6	-90.78	-9,059.4	439.4	1,320.2	1,173.8	146.35	9.021		
17,100.0	8,018.2	17,164.6	8,035.3	73.9	74.3	-90.77	-9,159.4	438.9	1,320.2	1,172.4	147.79	8.933		
17,200.0	8,018.1	17,264.6	8,035.1	74.7	75.0	-90.76	-9,259.4	438.3	1,320.2	1,170.9	149.23	8.847		
17,300.0	8,018.0	17,364.6	8,034.8	75.4	75.7	-90.75	-9,359.4	437.8	1,320.1	1,169.5	150.67	8.762		
17,400.0	8,017.9	17,464.6	8,034.5	76.1	76.5	-90.74	-9,459.4	437.2	1,320.1	1,168.0	152.11	8.679		
17,500.0	8,017.8	17,564.6	8,034.2	76.8	77.2	-90.73	-9,559.4	436.7	1,320.1	1,166.6	153.56	8.597		
17,600.0	8,017.7	17,664.6	8,033.9	77.5	77.9	-90.73	-9,659.4	436.1	1,320.1	1,165.1	155.01	8.516		
17,700.0	8,017.6	17,764.6	8,033.6	78.3	78.6	-90.72	-9,759.4	435.6	1,320.1	1,163.7	156.46	8.438		
17,800.0	8,017.5	17,864.6	8,033.3	79.0	79.3	-90.71	-9,859.4	435.0	1,320.1	1,162.2	157.91	8.360		
17,900.0	8,017.4	17,964.6	8,033.0	79.7	80.1	-90.70	-9,959.4	434.5	1,320.1	1,160.7	159.36	8.284		
18,000.0	8,017.3	18,064.6	8,032.7	80.4	80.8	-90.69	-10,059.4	433.9	1,320.1	1,159.3	160.81	8.209		
18,100.0	8,017.2	18,164.6	8,032.4	81.2	81.5	-90.68	-10,159.4	433.4	1,320.1	1,157.8	162.27	8.135		
18,200.0	8,017.1	18,264.6	8,032.1	81.9	82.2	-90.68	-10,259.4	432.8	1,320.1	1,156.3	163.73	8.063		
18,243.7	8,017.0	18,308.2	8,032.0	82.2	82.6	-90.67	-10,303.0	432.6	1,320.1	1,155.7	164.36	8.031		
18,252.3	8,017.0	18,308.2	8,032.0	82.3	82.6	-90.67	-10,303.0	432.6	1,320.1	1,155.7	164.40	8.030		



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 #503H
Well Error: 0.0 usft
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Reference Design: Plan #1

Local Co-ordinate Reference: Well SRO 4 State Com #503H
TVD Reference: KB @ 3021.2usft (Precision 106)
MD Reference: KB @ 3021.2usft (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 #502H - OWB - Plan #1

Survey Program: 0-MWD, 7356-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)	Between Ellipses (usft)		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)						
0.0	0.0	0.0	0.0	0.0	0.0	90.00	0.0	30.0	30.0					
100.0	100.0	99.7	99.7	0.1	0.1	90.00	0.0	30.0	30.0	29.7		0.29	102.913	
200.0	200.0	199.7	199.7	0.6	0.6	90.00	0.0	30.0	30.0	28.9	1.14	26.388		
300.0	300.0	299.7	299.7	1.0	1.0	90.00	0.0	30.0	30.0	28.0	1.98	15.128		
400.0	400.0	399.7	399.7	1.4	1.4	90.00	0.0	30.0	30.0	27.2	2.83	10.603		
500.0	500.0	499.7	499.7	1.8	1.8	90.00	0.0	30.0	30.0	26.3	3.68	8.162		
600.0	600.0	599.7	599.7	2.3	2.3	90.00	0.0	30.0	30.0	25.5	4.52	6.635		
700.0	700.0	699.7	699.7	2.7	2.7	90.00	0.0	30.0	30.0	24.6	5.37	5.589		
800.0	800.0	799.7	799.7	3.1	3.1	90.00	0.0	30.0	30.0	23.8	6.21	4.828		
900.0	900.0	899.7	899.7	3.5	3.5	90.00	0.0	30.0	30.0	22.9	7.06	4.249		
1,000.0	1,000.0	999.7	999.7	4.0	4.0	90.00	0.0	30.0	30.0	22.1	7.91	3.794		
1,100.0	1,100.0	1,099.7	1,099.7	4.4	4.4	90.00	0.0	30.0	30.0	21.2	8.75	3.427		
1,200.0	1,200.0	1,199.7	1,199.7	4.8	4.8	90.00	0.0	30.0	30.0	20.4	9.60	3.125		
1,300.0	1,300.0	1,299.7	1,299.7	5.2	5.2	90.00	0.0	30.0	30.0	19.6	10.45	2.872		
1,400.0	1,400.0	1,399.7	1,399.7	5.6	5.6	90.00	0.0	30.0	30.0	18.7	11.29	2.657		
1,500.0	1,500.0	1,499.7	1,499.7	6.1	6.1	90.00	0.0	30.0	30.0	17.9	12.14	2.472		
1,600.0	1,600.0	1,599.7	1,599.7	6.5	6.5	90.00	0.0	30.0	30.0	17.0	12.98	2.311		
1,700.0	1,700.0	1,699.7	1,699.7	6.9	6.9	90.00	0.0	30.0	30.0	16.2	13.83	2.169		
1,800.0	1,800.0	1,799.7	1,799.7	7.3	7.3	90.00	0.0	30.0	30.0	15.3	14.68	2.044		
1,900.0	1,900.0	1,899.7	1,899.7	7.8	7.8	90.00	0.0	30.0	30.0	14.5	15.52	1.933		
2,000.0	2,000.0	1,999.7	1,999.7	8.2	8.2	90.00	0.0	30.0	30.0	13.6	16.37	1.833		
2,100.0	2,100.0	2,099.7	2,099.7	8.6	8.6	90.00	0.0	30.0	30.0	12.8	17.22	1.743		
2,200.0	2,200.0	2,199.7	2,199.7	9.0	9.0	90.00	0.0	30.0	30.0	11.9	18.06	1.661		
2,300.0	2,300.0	2,299.7	2,299.7	9.5	9.5	90.00	0.0	30.0	30.0	11.1	18.91	1.587		
2,400.0	2,400.0	2,399.7	2,399.7	9.9	9.9	90.00	0.0	30.0	30.0	10.2	19.75	1.519		
2,500.0	2,500.0	2,499.7	2,499.7	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	2,599.7	2,599.7	10.5	10.7	170.65	0.0	30.0	31.7	10.5	21.25	1.493	Level 3	
2,700.0	2,699.8	2,699.5	2,699.5	10.6	11.1	171.95	0.0	30.0	36.9	15.2	21.70	1.700		
2,754.2	2,753.9	2,753.6	2,753.6	10.6	11.4	172.78	0.0	30.0	41.1	19.2	21.96	1.874		
2,800.0	2,799.5	2,799.2	2,799.2	10.6	11.6	173.43	0.0	30.0	45.2	23.0	22.18	2.037		
2,900.0	2,899.1	2,898.8	2,898.8	10.7	12.0	174.50	0.0	30.0	54.0	31.3	22.67	2.382		
3,000.0	2,998.7	2,998.4	2,998.4	10.8	12.4	175.28	0.0	30.0	62.8	39.6	23.17	2.711		
3,100.0	3,098.3	3,099.9	3,099.9	10.9	12.7	174.97	1.2	28.8	70.3	46.7	23.59	2.981		
3,200.0	3,197.9	3,201.0	3,200.9	11.0	13.0	173.08	4.8	25.1	75.3	51.4	23.93	3.149		
3,300.0	3,297.5	3,300.9	3,300.6	11.2	13.2	171.06	8.9	21.0	79.9	55.6	24.30	3.287		
3,400.0	3,397.1	3,400.7	3,400.3	11.4	13.5	169.27	13.0	16.9	84.5	59.8	24.69	3.422		
3,500.0	3,496.7	3,500.6	3,499.9	11.6	13.7	167.66	17.1	12.8	89.2	64.1	25.11	3.551		
3,600.0	3,596.3	3,600.5	3,599.6	11.8	14.0	166.21	21.2	8.7	93.9	68.4	25.55	3.676		
3,700.0	3,695.9	3,700.3	3,699.3	12.0	14.3	164.90	25.3	4.6	98.7	72.7	26.02	3.795		
3,800.0	3,795.6	3,800.2	3,799.0	12.2	14.5	163.72	29.4	0.5	103.6	77.1	26.50	3.908		
3,900.0	3,895.2	3,900.0	3,898.7	12.5	14.8	162.64	33.5	-3.6	108.5	81.5	27.01	4.016		
4,000.0	3,994.8	3,999.9	3,998.4	12.7	15.1	161.65	37.5	-7.8	113.4	85.9	27.53	4.119		
4,100.0	4,094.4	4,099.8	4,098.1	13.0	15.4	160.75	41.6	-11.9	118.4	90.3	28.08	4.215		
4,200.0	4,194.0	4,199.6	4,197.8	13.3	15.7	159.92	45.7	-16.0	123.3	94.7	28.64	4.307		
4,300.0	4,293.6	4,299.5	4,297.5	13.6	16.1	159.15	49.8	-20.1	128.4	99.1	29.21	4.393		
4,400.0	4,393.2	4,399.3	4,397.2	13.9	16.4	158.44	53.9	-24.2	133.4	103.6	29.81	4.475		
4,500.0	4,492.8	4,499.2	4,496.9	14.2	16.7	157.79	58.0	-28.3	138.4	108.0	30.41	4.552		
4,600.0	4,592.4	4,599.1	4,596.6	14.5	17.1	157.18	62.1	-32.4	143.5	112.5	31.03	4.624		
4,700.0	4,692.0	4,698.9	4,696.2	14.8	17.4	156.61	66.2	-36.5	148.6	116.9	31.67	4.692		
4,800.0	4,791.6	4,798.8	4,795.9	15.2	17.7	156.08	70.3	-40.7	153.7	121.4	32.31	4.756		
4,900.0	4,891.2	4,898.7	4,895.6	15.5	18.1	155.58	74.3	-44.8	158.8	125.8	32.97	4.816		
5,000.0	4,990.8	4,998.5	4,995.3	15.9	18.4	155.11	78.4	-48.9	163.9	130.3	33.64	4.872		

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 #503H
Well Error: 0.0 usft
Reference Wellbore: OWB
Reference Design: Plan #1

Local Co-ordinate Reference: Well SRO 4 State Com #503H
TVD Reference: KB @ 3021.2usft (Precision 106)
MD Reference: KB @ 3021.2usft (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 #502H - OWB - Plan #1

Survey Program: 0-MWD, 7356-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	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,100.0	5,090.4	5,098.4	5,095.0	16.2	18.8	154.68	82.5	-53.0	169.0	134.7	34.32	4.926		
5,200.0	5,190.0	5,198.2	5,194.7	16.6	19.2	154.27	86.6	-57.1	174.2	139.2	35.00	4.976		
5,300.0	5,289.7	5,298.1	5,294.4	17.0	19.5	153.88	90.7	-61.2	179.3	143.6	35.70	5.023		
5,400.0	5,389.3	5,398.0	5,394.1	17.3	19.9	153.51	94.8	-65.3	184.5	148.1	36.40	5.067		
5,500.0	5,488.9	5,497.8	5,493.8	17.7	20.3	153.16	98.9	-69.5	189.6	152.5	37.12	5.109		
5,600.0	5,588.5	5,597.7	5,593.5	18.1	20.6	152.84	103.0	-73.6	194.8	157.0	37.84	5.148		
5,700.0	5,688.1	5,697.5	5,693.2	18.5	21.0	152.52	107.1	-77.7	200.0	161.4	38.56	5.185		
5,800.0	5,787.7	5,797.4	5,792.9	18.9	21.4	152.23	111.2	-81.8	205.2	165.9	39.30	5.220		
5,900.0	5,887.3	5,897.3	5,892.6	19.3	21.8	151.95	115.2	-85.9	210.3	170.3	40.04	5.253		
6,000.0	5,986.9	5,997.1	5,992.2	19.7	22.1	151.68	119.3	-90.0	215.5	174.7	40.79	5.284		
6,100.0	6,086.5	6,097.0	6,091.9	20.1	22.5	151.43	123.4	-94.1	220.7	179.2	41.54	5.314		
6,200.0	6,186.1	6,196.8	6,191.6	20.5	22.9	151.18	127.5	-98.2	225.9	183.6	42.29	5.342		
6,300.0	6,285.7	6,296.7	6,291.3	20.9	23.3	150.95	131.6	-102.4	231.1	188.1	43.06	5.368		
6,400.0	6,385.3	6,396.6	6,391.0	21.3	23.7	150.73	135.7	-106.5	236.3	192.5	43.82	5.393		
6,500.0	6,484.9	6,496.4	6,490.7	21.7	24.1	150.52	139.8	-110.6	241.5	196.9	44.60	5.416		
6,600.0	6,584.5	6,596.3	6,590.4	22.1	24.5	150.31	143.9	-114.7	246.7	201.4	45.37	5.438		
6,700.0	6,684.1	6,696.1	6,690.1	22.6	24.9	150.12	148.0	-118.8	252.0	205.8	46.15	5.459		
6,800.0	6,783.8	6,796.0	6,789.8	23.0	25.3	149.93	152.1	-122.9	257.2	210.2	46.94	5.479		
6,900.0	6,883.4	6,895.9	6,889.5	23.4	25.7	149.75	156.1	-127.0	262.4	214.7	47.72	5.498		
7,000.0	6,983.0	6,995.7	6,989.2	23.8	26.1	149.58	160.2	-131.1	267.6	219.1	48.51	5.516		
7,100.0	7,082.6	7,095.6	7,088.9	24.2	26.5	149.41	164.3	-135.3	272.8	223.5	49.31	5.533		
7,200.0	7,182.2	7,195.4	7,188.5	24.7	26.9	149.25	168.4	-139.4	278.1	228.0	50.11	5.550		
7,300.0	7,281.8	7,295.3	7,288.2	25.1	27.3	149.10	172.5	-143.5	283.3	232.4	50.91	5.565		
7,400.0	7,381.4	7,403.8	7,396.6	25.5	27.6	149.30	175.0	-148.0	288.0	236.3	51.62	5.578		
7,484.0	7,465.1	7,504.1	7,495.9	25.7	27.6	152.31	162.1	-152.2	287.5	235.9	51.55	5.577		
7,500.0	7,481.0	7,522.5	7,513.7	25.7	27.6	169.43	157.8	-152.9	287.1	235.6	51.49	5.575		
7,528.8	7,509.6	7,555.2	7,545.2	25.7	27.6	-168.45	148.8	-154.3	286.8	235.4	51.40	5.580		
7,550.0	7,530.6	7,579.0	7,567.6	25.7	27.6	-157.99	141.2	-155.2	286.9	235.6	51.34	5.589		
7,600.0	7,579.6	7,633.7	7,618.1	25.7	27.6	-143.03	120.2	-157.5	288.6	237.4	51.23	5.634		
7,650.0	7,627.7	7,686.7	7,664.8	25.8	27.6	-133.91	95.2	-159.5	292.2	241.1	51.17	5.712		
7,700.0	7,674.5	7,738.1	7,707.7	25.8	27.6	-127.11	67.1	-161.5	297.8	246.7	51.15	5.823		
7,750.0	7,719.7	7,787.9	7,748.7	25.8	27.6	-121.44	36.2	-163.3	305.4	254.3	51.16	5.970		
7,800.0	7,762.8	7,836.2	7,781.9	25.8	27.7	-116.42	3.1	-164.9	314.9	263.7	51.18	6.153		
7,850.0	7,803.6	7,883.2	7,813.3	25.9	27.7	-111.84	-31.8	-166.4	326.1	274.9	51.18	6.372		
7,900.0	7,841.7	7,929.0	7,841.0	25.9	27.7	-107.60	-68.1	-167.7	338.9	287.8	51.16	6.625		
7,950.0	7,877.0	7,973.6	7,865.2	25.9	27.7	-103.65	-105.6	-168.9	353.1	302.0	51.12	6.908		
8,000.0	7,909.0	8,017.3	7,886.0	26.0	27.7	-99.96	-144.0	-170.0	368.4	317.4	51.06	7.216		
8,050.0	7,937.5	8,060.0	7,903.4	26.0	27.7	-96.52	-183.0	-171.0	384.7	333.7	50.99	7.544		
8,100.0	7,962.4	8,100.0	7,917.1	26.1	27.7	-93.37	-220.6	-171.7	401.7	350.7	50.93	7.888		
8,150.0	7,983.5	8,143.4	7,928.9	26.1	27.7	-90.35	-262.4	-172.4	419.2	368.3	50.88	8.237		
8,200.0	8,000.5	8,184.3	7,937.1	26.2	27.7	-87.60	-302.4	-173.0	437.0	386.1	50.86	8.592		
8,250.0	8,013.4	8,224.7	7,942.3	26.2	27.7	-85.08	-342.4	-173.4	454.9	404.0	50.86	8.944		
8,300.0	8,022.1	8,264.8	7,944.8	26.2	27.7	-82.78	-382.4	-173.8	472.8	421.9	50.89	9.291		
8,350.0	8,026.4	8,308.8	7,944.9	26.3	27.7	-80.76	-426.5	-174.0	490.4	439.4	50.95	9.624		
8,375.7	8,027.0	8,333.0	7,944.9	26.3	27.7	-79.97	-450.6	-174.1	499.0	448.0	51.01	9.783		
8,400.0	8,027.0	8,355.9	7,944.8	26.3	27.7	-80.15	-473.5	-174.3	507.0	455.9	51.08	9.926		
8,500.0	8,026.9	8,450.9	7,944.6	26.4	27.7	-80.82	-568.5	-174.8	537.9	486.5	51.37	10.472		
8,600.0	8,026.8	8,546.9	7,944.4	26.5	27.8	-81.35	-664.5	-175.3	565.5	513.8	51.68	10.943		
8,700.0	8,026.6	8,643.9	7,944.2	26.6	27.9	-81.77	-761.5	-175.8	589.8	537.8	52.02	11.338		
8,800.0	8,026.5	8,741.6	7,944.0	26.7	28.1	-82.11	-859.2	-176.4	610.8	558.4	52.39	11.657		
8,900.0	8,026.4	8,840.0	7,943.9	26.9	28.2	-82.37	-957.6	-176.9	628.3	575.5	52.80	11.900		
9,000.0	8,026.3	8,939.0	7,943.7	27.0	28.4	-82.57	-1,056.6	-177.4	642.5	589.3	53.24	12.067		

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

Company:	Concho Resources, Inc.	Local Co-ordinate Reference:	Well SRO 4 State Com #503H
Project:	Eddy County (NAD27 NME)	TVD Reference:	KB @ 3021.2usft (Precision 106)
Reference Site:	(SRO 4 State Com) Sec-4_T-26-S_R-28-E	MD Reference:	KB @ 3021.2usft (Precision 106)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	SRO 4 State Com #503H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design: (SRO 4 State Com) Sec-4_T-26-S_R-28-E - SRO 4 State Com #502H - OWB - Plan #1														Offset Site Error:	0.0 usft
Survey Program: 0-MWD, 7356-MWD+IFR1+MS														Offset Well Error:	0.0 usft
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)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
9,100.0	8,026.2	9,038.4	7,943.5	27.2	28.7	-82.71	-1,156.0	-178.0	653.2	599.5	53.72	12.160			
9,200.0	8,026.1	9,138.1	7,943.2	27.4	28.9	-82.80	-1,255.7	-178.5	660.5	606.3	54.23	12.181			
9,300.0	8,026.0	9,238.0	7,943.0	27.6	29.1	-82.85	-1,355.7	-179.0	664.3	609.6	54.77	12.130			
9,360.2	8,026.0	9,298.2	7,942.9	27.7	29.3	-82.85	-1,415.8	-179.4	665.0	609.9	55.10	12.068			
9,400.0	8,025.9	9,338.0	7,942.8	27.8	29.4	-82.85	-1,455.6	-179.6	665.0	609.6	55.34	12.017			
9,500.0	8,025.8	9,438.0	7,942.6	28.0	29.7	-82.84	-1,555.6	-180.1	665.0	609.1	55.94	11.887			
9,600.0	8,025.7	9,538.0	7,942.4	28.3	30.0	-82.83	-1,655.6	-180.7	665.0	608.4	56.59	11.752			
9,700.0	8,025.6	9,638.0	7,942.2	28.6	30.3	-82.82	-1,755.6	-181.2	665.0	607.8	57.26	11.614			
9,800.0	8,025.5	9,738.0	7,942.0	28.9	30.7	-82.81	-1,855.6	-181.7	665.0	607.1	57.97	11.472			
9,900.0	8,025.4	9,838.0	7,941.8	29.2	31.0	-82.81	-1,955.6	-182.3	665.1	606.3	58.71	11.328			
10,000.0	8,025.3	9,938.0	7,941.6	29.6	31.4	-82.80	-2,055.6	-182.8	665.1	605.6	59.48	11.181			
10,100.0	8,025.2	10,038.0	7,941.4	30.0	31.8	-82.79	-2,155.6	-183.4	665.1	604.8	60.28	11.033			
10,200.0	8,025.1	10,138.0	7,941.2	30.4	32.2	-82.78	-2,255.6	-183.9	665.1	604.0	61.11	10.884			
10,300.0	8,025.0	10,238.0	7,941.0	30.8	32.6	-82.77	-2,355.6	-184.4	665.1	603.2	61.96	10.734			
10,400.0	8,024.9	10,338.0	7,940.8	31.2	33.0	-82.76	-2,455.6	-185.0	665.1	602.3	62.84	10.584			
10,500.0	8,024.8	10,438.0	7,940.6	31.7	33.4	-82.75	-2,555.6	-185.5	665.1	601.4	63.74	10.434			
10,600.0	8,024.7	10,538.0	7,940.4	32.1	33.9	-82.75	-2,655.6	-186.1	665.2	600.5	64.67	10.285			
10,700.0	8,024.6	10,638.0	7,940.2	32.6	34.3	-82.74	-2,755.6	-186.6	665.2	599.5	65.62	10.136			
10,800.0	8,024.5	10,738.0	7,940.0	33.1	34.8	-82.73	-2,855.6	-187.1	665.2	598.6	66.59	9.989			
10,900.0	8,024.4	10,838.0	7,939.8	33.6	35.3	-82.72	-2,955.6	-187.7	665.2	597.6	67.59	9.842			
11,000.0	8,024.3	10,938.0	7,939.6	34.1	35.8	-82.71	-3,055.6	-188.2	665.2	596.6	68.60	9.697			
11,100.0	8,024.2	11,038.0	7,939.4	34.6	36.3	-82.70	-3,155.6	-188.8	665.2	595.6	69.63	9.554			
11,200.0	8,024.1	11,138.0	7,939.2	35.1	36.8	-82.69	-3,255.6	-189.3	665.2	594.6	70.68	9.412			
11,300.0	8,024.0	11,238.0	7,939.0	35.6	37.3	-82.69	-3,355.6	-189.8	665.3	593.5	71.74	9.273			
11,400.0	8,023.9	11,338.0	7,938.8	36.2	37.8	-82.68	-3,455.6	-190.4	665.3	592.4	72.83	9.135			
11,500.0	8,023.8	11,438.0	7,938.6	36.7	38.4	-82.67	-3,555.6	-190.9	665.3	591.4	73.93	8.999			
11,600.0	8,023.7	11,538.0	7,938.4	37.3	38.9	-82.66	-3,655.6	-191.5	665.3	590.3	75.04	8.866			
11,700.0	8,023.6	11,638.0	7,938.2	37.8	39.4	-82.65	-3,755.6	-192.0	665.3	589.2	76.17	8.735			
11,800.0	8,023.5	11,738.0	7,938.0	38.4	40.0	-82.64	-3,855.6	-192.5	665.3	588.0	77.31	8.606			
11,900.0	8,023.4	11,838.0	7,937.8	39.0	40.6	-82.63	-3,955.6	-193.1	665.3	586.9	78.47	8.479			
12,000.0	8,023.3	11,938.0	7,937.6	39.6	41.1	-82.63	-4,055.6	-193.6	665.4	585.7	79.63	8.355			
12,100.0	8,023.2	12,038.0	7,937.4	40.2	41.7	-82.62	-4,155.6	-194.2	665.4	584.6	80.81	8.234			
12,200.0	8,023.1	12,138.0	7,937.2	40.8	42.3	-82.61	-4,255.6	-194.7	665.4	583.4	82.00	8.114			
12,300.0	8,023.0	12,238.0	7,937.0	41.4	42.9	-82.60	-4,355.6	-195.3	665.4	582.2	83.21	7.997			
12,400.0	8,022.9	12,338.0	7,936.8	42.0	43.5	-82.59	-4,455.6	-195.8	665.4	581.0	84.42	7.882			
12,500.0	8,022.8	12,438.0	7,936.6	42.6	44.0	-82.58	-4,555.6	-196.3	665.4	579.8	85.64	7.770			
12,600.0	8,022.7	12,538.0	7,936.4	43.2	44.6	-82.57	-4,655.6	-196.9	665.5	578.6	86.88	7.660			
12,700.0	8,022.6	12,638.0	7,936.2	43.8	45.3	-82.57	-4,755.6	-197.4	665.5	577.4	88.12	7.552			
12,800.0	8,022.5	12,738.0	7,936.0	44.5	45.9	-82.56	-4,855.6	-198.0	665.5	576.1	89.37	7.446			
12,900.0	8,022.4	12,838.0	7,935.8	45.1	46.5	-82.55	-4,955.6	-198.5	665.5	574.9	90.63	7.343			
13,000.0	8,022.3	12,938.0	7,935.6	45.7	47.1	-82.54	-5,055.6	-199.0	665.5	573.6	91.90	7.242			
13,100.0	8,022.2	13,038.0	7,935.4	46.4	47.7	-82.53	-5,155.6	-199.6	665.5	572.4	93.17	7.143			
13,200.0	8,022.1	13,138.0	7,935.2	47.0	48.4	-82.52	-5,255.6	-200.1	665.5	571.1	94.46	7.046			
13,300.0	8,022.0	13,238.0	7,935.0	47.7	49.0	-82.51	-5,355.6	-200.7	665.6	569.8	95.75	6.951			
13,400.0	8,021.9	13,338.0	7,934.8	48.3	49.6	-82.51	-5,455.6	-201.2	665.6	568.5	97.05	6.858			
13,500.0	8,021.8	13,438.0	7,934.6	49.0	50.3	-82.50	-5,555.6	-201.7	665.6	567.2	98.35	6.768			
13,600.0	8,021.7	13,538.0	7,934.4	49.6	50.9	-82.49	-5,655.6	-202.3	665.6	565.9	99.66	6.679			
13,700.0	8,021.6	13,638.0	7,934.2	50.3	51.5	-82.48	-5,755.6	-202.8	665.6	564.6	100.98	6.592			
13,800.0	8,021.5	13,738.0	7,934.0	50.9	52.2	-82.47	-5,855.6	-203.4	665.6	563.3	102.30	6.507			
13,900.0	8,021.4	13,838.0	7,933.8	51.6	52.9	-82.46	-5,955.6	-203.9	665.7	562.0	103.63	6.423			
14,000.0	8,021.3	13,938.0	7,933.6	52.3	53.5	-82.45	-6,055.6	-204.4	665.7	560.7	104.96	6.342			
14,100.0	8,021.2	14,038.0	7,933.4	52.9	54.2	-82.45	-6,155.6	-205.0	665.7	559.4	106.30	6.262			

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

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 #503H
Well Error: 0.0 usft
Reference Wellbore: OWB
Reference Design: Plan #1

Local Co-ordinate Reference: Well SRO 4 State Com #503H
TVD Reference: KB @ 3021.2usft (Precision 106)
MD Reference: KB @ 3021.2usft (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 #502H - OWB - Plan #1

Survey Program: 0-MWD, 7356-MWD+IFR1+MS										Rule Assigned:				Offset Site Error:	0.0 usft
Reference Offset										Distance				Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Semi Major Axis	Highside Toolface (°)	+N-S (usft)	+E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
14,200.0	8,021.1	14,138.0	7,933.2	53.6	54.8	-82.44	-82.44	-6,255.6	-205.5	665.7	558.1	107.65	6.184		
14,300.0	8,021.0	14,238.0	7,933.0	54.3	55.5	-82.43	-82.43	-6,355.6	-206.1	665.7	556.7	109.00	6.108		
14,400.0	8,020.9	14,338.0	7,932.8	55.0	56.2	-82.42	-82.42	-6,455.6	-206.6	665.7	555.4	110.35	6.033		
14,500.0	8,020.8	14,438.0	7,932.6	55.7	56.8	-82.41	-82.41	-6,555.6	-207.1	665.7	554.0	111.71	5.960		
14,600.0	8,020.7	14,538.0	7,932.4	56.3	57.5	-82.40	-82.40	-6,655.6	-207.7	665.8	552.7	113.07	5.888		
14,700.0	8,020.6	14,638.0	7,932.2	57.0	58.2	-82.39	-82.39	-6,755.6	-208.2	665.8	551.3	114.44	5.818		
14,800.0	8,020.5	14,738.0	7,932.0	57.7	58.8	-82.39	-82.39	-6,855.6	-208.8	665.8	550.0	115.81	5.749		
14,900.0	8,020.4	14,838.0	7,931.8	58.4	59.5	-82.38	-82.38	-6,955.5	-209.3	665.8	548.6	117.18	5.682		
15,000.0	8,020.3	14,938.0	7,931.6	59.1	60.2	-82.37	-82.37	-7,055.5	-209.8	665.8	547.3	118.56	5.616		
15,100.0	8,020.2	15,038.0	7,931.3	59.8	60.9	-82.36	-82.36	-7,155.5	-210.4	665.8	545.9	119.95	5.551		
15,200.0	8,020.1	15,138.0	7,931.1	60.5	61.6	-82.35	-82.35	-7,255.5	-210.9	665.8	544.5	121.33	5.488		
15,300.0	8,020.0	15,238.0	7,930.9	61.2	62.3	-82.34	-82.34	-7,355.5	-211.5	665.9	543.1	122.72	5.426		
15,400.0	8,019.9	15,338.0	7,930.7	61.9	62.9	-82.33	-82.33	-7,455.5	-212.0	665.9	541.8	124.11	5.365		
15,500.0	8,019.8	15,438.0	7,930.5	62.6	63.6	-82.33	-82.33	-7,555.5	-212.5	665.9	540.4	125.51	5.305		
15,600.0	8,019.7	15,538.0	7,930.3	63.3	64.3	-82.32	-82.32	-7,655.5	-213.1	665.9	539.0	126.91	5.247		
15,700.0	8,019.6	15,638.0	7,930.1	64.0	65.0	-82.31	-82.31	-7,755.5	-213.6	665.9	537.6	128.31	5.190		
15,800.0	8,019.5	15,738.0	7,929.9	64.7	65.7	-82.30	-82.30	-7,855.5	-214.2	665.9	536.2	129.72	5.134		
15,900.0	8,019.4	15,838.0	7,929.7	65.4	66.4	-82.29	-82.29	-7,955.5	-214.7	666.0	534.8	131.12	5.079		
16,000.0	8,019.3	15,938.0	7,929.5	66.1	67.1	-82.28	-82.28	-8,055.5	-215.2	666.0	533.4	132.54	5.025		
16,100.0	8,019.2	16,038.0	7,929.3	66.8	67.8	-82.27	-82.27	-8,155.5	-215.8	666.0	532.0	133.95	4.972		
16,200.0	8,019.1	16,138.0	7,929.1	67.5	68.5	-82.27	-82.27	-8,255.5	-216.3	666.0	530.6	135.36	4.920		
16,300.0	8,019.0	16,238.0	7,928.9	68.2	69.2	-82.26	-82.26	-8,355.5	-216.9	666.0	529.2	136.78	4.869		
16,400.0	8,018.9	16,338.0	7,928.7	68.9	69.9	-82.25	-82.25	-8,455.5	-217.4	666.0	527.8	138.20	4.819		
16,500.0	8,018.8	16,438.0	7,928.5	69.6	70.6	-82.24	-82.24	-8,555.5	-218.0	666.1	526.4	139.63	4.770		
16,600.0	8,018.7	16,538.0	7,928.3	70.3	71.3	-82.23	-82.23	-8,655.5	-218.5	666.1	525.0	141.05	4.722		
16,700.0	8,018.6	16,638.0	7,928.1	71.1	72.0	-82.22	-82.22	-8,755.5	-219.0	666.1	523.6	142.48	4.675		
16,800.0	8,018.5	16,738.0	7,927.9	71.8	72.7	-82.21	-82.21	-8,855.5	-219.6	666.1	522.2	143.91	4.629		
16,900.0	8,018.4	16,838.0	7,927.7	72.5	73.4	-82.20	-82.20	-8,955.5	-220.1	666.1	520.8	145.34	4.583		
17,000.0	8,018.3	16,938.0	7,927.5	73.2	74.1	-82.20	-82.20	-9,055.5	-220.7	666.1	519.4	146.77	4.538		
17,100.0	8,018.2	17,038.0	7,927.3	73.9	74.9	-82.19	-82.19	-9,155.5	-221.2	666.1	517.9	148.21	4.495		
17,200.0	8,018.1	17,138.0	7,927.1	74.7	75.6	-82.18	-82.18	-9,255.5	-221.7	666.2	516.5	149.65	4.452		
17,300.0	8,018.0	17,238.0	7,926.9	75.4	76.3	-82.17	-82.17	-9,355.5	-222.3	666.2	515.1	151.09	4.409		
17,400.0	8,017.9	17,338.0	7,926.7	76.1	77.0	-82.16	-82.16	-9,455.5	-222.8	666.2	513.7	152.53	4.368		
17,500.0	8,017.8	17,438.0	7,926.5	76.8	77.7	-82.15	-82.15	-9,555.5	-223.4	666.2	512.2	153.97	4.327		
17,600.0	8,017.7	17,538.0	7,926.3	77.5	78.4	-82.14	-82.14	-9,655.5	-223.9	666.2	510.8	155.41	4.287		
17,700.0	8,017.6	17,638.0	7,926.1	78.3	79.1	-82.14	-82.14	-9,755.5	-224.4	666.2	509.4	156.86	4.247		
17,800.0	8,017.5	17,738.0	7,925.9	79.0	79.9	-82.13	-82.13	-9,855.5	-225.0	666.3	507.9	158.31	4.209		
17,900.0	8,017.4	17,838.0	7,925.7	79.7	80.6	-82.12	-82.12	-9,955.5	-225.5	666.3	506.5	159.76	4.171		
18,000.0	8,017.3	17,938.0	7,925.5	80.4	81.3	-82.11	-82.11	-10,055.5	-226.1	666.3	505.1	161.21	4.133		
18,100.0	8,017.2	18,038.0	7,925.3	81.2	82.0	-82.10	-82.10	-10,155.5	-226.6	666.3	503.6	162.66	4.096		
18,200.0	8,017.1	18,138.0	7,925.1	81.9	82.7	-82.09	-82.09	-10,255.5	-227.1	666.3	502.2	164.11	4.060		
18,203.7	8,017.0	18,141.7	7,925.1	81.9	82.8	-82.09	-82.09	-10,259.2	-227.2	666.3	502.2	164.17	4.059		
18,252.3	8,017.0	18,186.8	7,925.0	82.3	83.1	-82.09	-82.09	-10,304.3	-227.4	666.3	501.5	164.80	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 #503H
Well Error: 0.0 usft
Reference Wellbore: OWB
Reference Design: Plan #1

Local Co-ordinate Reference: Well SRO 4 State Com #503H
TVD Reference: KB @ 3021.2usft (Precision 106)
MD Reference: KB @ 3021.2usft (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							Distance							Offset Well Error:
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre		Between	Between	Minimum	Separation	Warning	
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
16,200.0	8,019.1	8,073.0	8,070.9	67.5	181.1	-90.25	-9,694.0	-554.3	1,477.3	1,260.6	216.76	6.816		
16,300.0	8,019.0	8,072.9	8,070.8	68.2	181.1	-90.23	-9,694.0	-554.3	1,380.0	1,162.6	217.47	6.346		
16,400.0	8,018.9	8,072.8	8,070.7	68.9	181.1	-90.22	-9,694.0	-554.3	1,283.2	1,064.9	218.29	5.878		
16,500.0	8,018.8	8,072.7	8,070.6	69.6	181.1	-90.20	-9,694.0	-554.3	1,186.8	967.5	219.27	5.412		
16,600.0	8,018.7	8,072.6	8,070.5	70.3	181.1	-90.18	-9,694.0	-554.3	1,091.1	870.6	220.44	4.950		
16,700.0	8,018.6	8,072.5	8,070.4	71.1	181.1	-90.16	-9,694.0	-554.3	996.2	774.4	221.85	4.490		
16,800.0	8,018.5	8,072.4	8,070.3	71.8	181.1	-90.15	-9,694.0	-554.3	902.5	678.9	223.59	4.036		
16,900.0	8,018.4	8,072.3	8,070.2	72.5	181.1	-90.13	-9,694.0	-554.3	810.2	584.4	225.76	3.589		
17,000.0	8,018.3	8,072.2	8,070.1	73.2	181.1	-90.11	-9,694.0	-554.3	720.0	491.5	228.50	3.151		
17,100.0	8,018.2	8,072.1	8,070.0	73.9	181.1	-90.09	-9,694.0	-554.3	632.8	400.8	231.99	2.728		
17,200.0	8,018.1	8,072.0	8,069.9	74.7	181.1	-90.08	-9,694.0	-554.3	549.9	313.5	236.45	2.326		
17,300.0	8,018.0	8,071.9	8,069.8	75.4	181.1	-90.06	-9,694.0	-554.3	473.7	231.7	242.05	1.957		
17,400.0	8,017.9	8,071.8	8,069.7	76.1	181.1	-90.04	-9,694.0	-554.3	407.9	159.3	248.62	1.641		
17,500.0	8,017.8	8,071.7	8,069.6	76.8	181.1	-90.02	-9,694.0	-554.3	358.3	103.3	255.02	1.405	Level 3	
17,600.0	8,017.7	8,071.6	8,069.5	77.5	181.1	-90.01	-9,694.0	-554.3	332.2	73.6	258.60	1.285	Level 3	
17,640.0	8,017.6	8,071.6	8,069.4	77.8	181.1	-90.00	-9,694.0	-554.3	329.8	71.2	258.57	1.276	Level 3, CC, ES, SF	
17,700.0	8,017.6	8,071.5	8,069.4	78.3	181.1	-89.99	-9,694.0	-554.3	335.2	78.5	256.76	1.306	Level 3	
17,800.0	8,017.5	8,071.4	8,069.3	79.0	181.1	-89.97	-9,694.0	-554.3	366.6	116.3	250.25	1.465	Level 3	
17,900.0	8,017.4	8,071.3	8,069.2	79.7	181.1	-89.95	-9,694.0	-554.3	419.9	177.6	242.32	1.733		
18,000.0	8,017.3	8,071.2	8,069.1	80.4	181.1	-89.94	-9,694.0	-554.3	488.2	252.9	235.26	2.075		
18,100.0	8,017.2	8,071.1	8,069.0	81.2	181.1	-89.92	-9,694.0	-554.3	566.0	336.3	229.73	2.464		
18,200.0	8,017.1	8,071.0	8,068.9	81.9	181.1	-89.90	-9,694.0	-554.3	649.9	424.3	225.59	2.881		
18,252.3	8,017.0	8,071.0	8,068.8	82.3	181.1	-89.89	-9,694.0	-554.3	695.4	471.5	223.89	3.106		

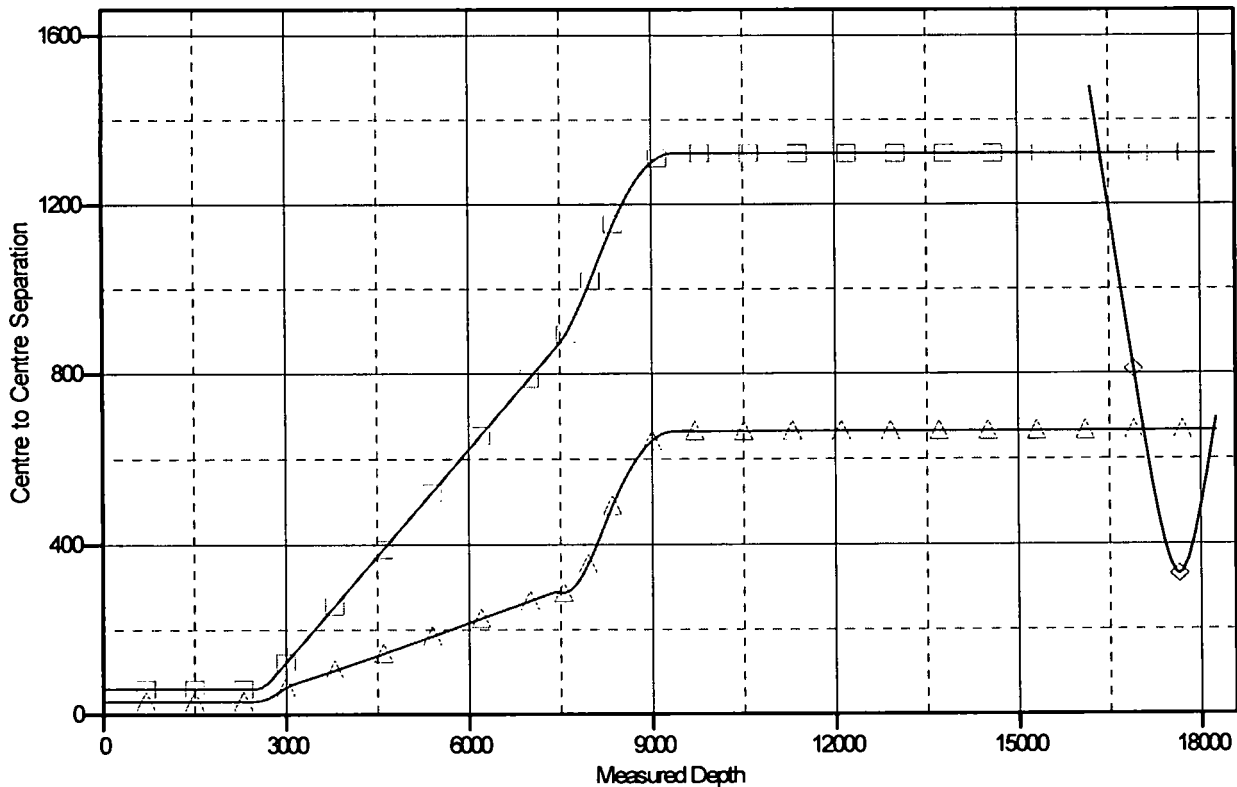
Company: Concho Resources, Inc.
Project: Eddy County (NAD27 NME)
Reference Site: (SRO 4 State Com) Sec-4_T-26-S_R-28-E
Site Error: 0.0 usft
Reference Well: SRO 4 State Com #503H
Well Error: 0.0 usft
Reference Wellbore: OWB
Reference Design: Plan #1

Local Co-ordinate Reference: Well SRO 4 State Com #503H
TVD Reference: KB @ 3021.2usft (Precision 106)
MD Reference: KB @ 3021.2usft (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 @ 3021.2usft (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 #503H
 Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
 Grid Convergence at Surface is: 0.13°

Ladder Plot



LEGEND

—■— SRO 4 State Com #503H, OWB, Plan #1 V0

—◆— TEDDY GRAHAM STATE COM #1 (OFFSET), OWB, A WB V0

—▲— SRO 4 State Com #501H, OWB, Plan #1 V0

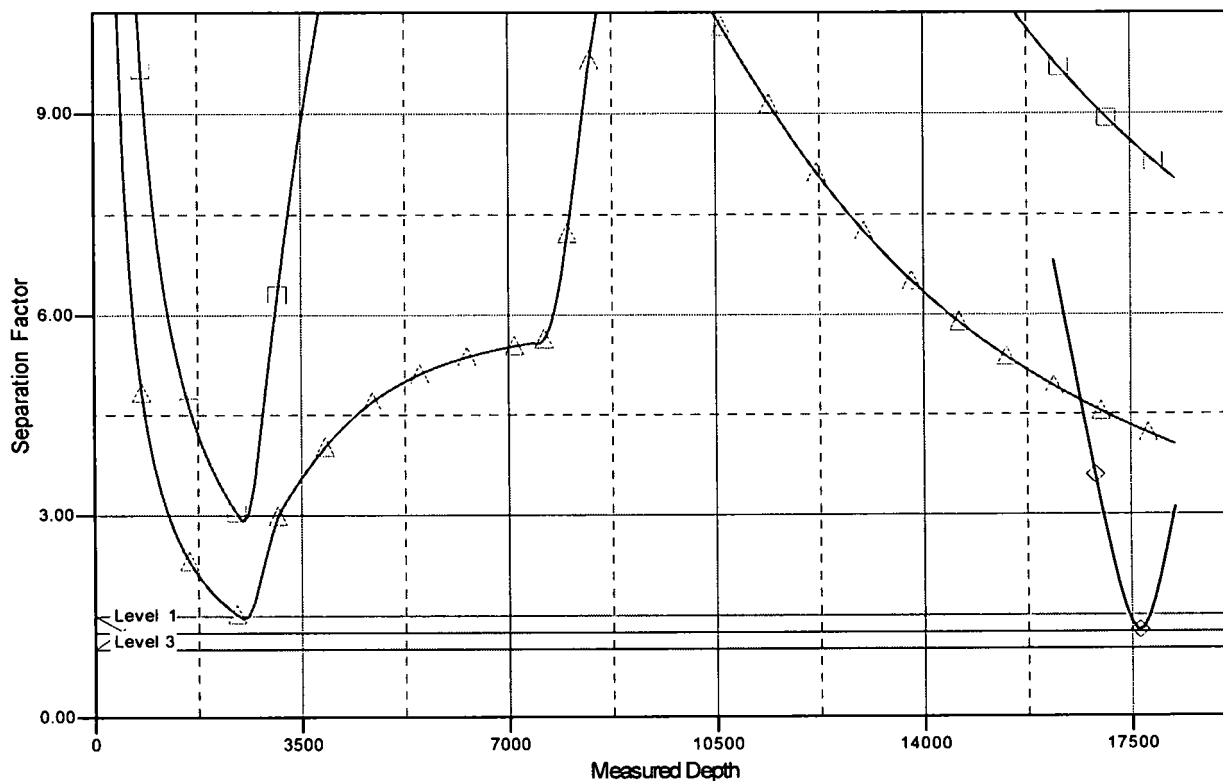
Company: Concho Resources, Inc.
Project: Eddy County (NAD27 NME)
Reference Site: (SRO 4 State Com) Sec-4_T-26-S_R-28-E
Site Error: 0.0 usft
Reference Well: SRO 4 State Com #503H
Well Error: 0.0 usft
Reference Wellbore: OWB
Reference Design: Plan #1

Local Co-ordinate Reference: Well SRO 4 State Com #503H
TVD Reference: KB @ 3021.2usft (Precision 106)
MD Reference: KB @ 3021.2usft (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 @ 3021.2usft (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 #503H
 Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
 Grid Convergence at Surface is: 0.13°

Separation Factor Plot



LEGEND

 SRO 4 State Com #503H, OWB, Plan #1 VD

 TEDDY GRAHAM STATE COM #1 (OFFSET), OWB, AWW VD

 SRO 4 State Com #503H, OWB, Plan #1 VD