CONCHO

Concho Resources, Inc.

Eddy County (NAD27 NME)
(SRO 4 State Com) Sec-4_T-26-S_R-28-E
SRO 4 State Com #501H

30-015-45547

OWB
Plan #1

Anticollision Report

11 December, 2018

INTREPID

CONCHO

Intrepid
Anticollision Report

INTREPID

Company:	Concho Resources, Inc.	**Local Co-ordinate Reference:**	Well SRO 4 State Com #501H
Project:	Eddy County (NAD27 NME)	**TVD Reference:**	KB @ 3020.7usft (Precision 106)
Reference Site:	(SRO 4 State Com) Sec-4_T-26-S_R-28-E	**MD Reference:**	KB @ 3020.7usft (Precision 106)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	SRO 4 State Com #501H	**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

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	7,487.6	Plan #1 (OWB)	MWD	OWSG MWD - Standard
7,487.6	18,307.8	Plan #1 (OWB)	MWD+IFR1+MS	MWD + IFR1 + Multi-Station Correction

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
(SRO 4 State Com) Sec-4_T-26-S_R-28-E						
SRO 4 State Com #502H - OWB - Plan #1	2,500.0	2,500.2	30.0	9.4	1.456	Level 3, CC, ES, SF
SRO 4 State Com #503H - OWB - Plan #1	2,416.5	2,417.0	60.0	40.1	3.016	CC
SRO 4 State Com #503H - OWB - Plan #1	2,500.0	2,500.0	60.0	39.4	2.913	ES, SF
TEDDY GRAHAM STATE COM #1 (OFFSET) - OWB - A	17,704.6	8,088.2	990.2	730.7	3.816	CC, ES, SF

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

Rule Assigned: Distance

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.2	0.2	0.0	0.0	-90.00	0.0	-30.0	30.0				
100.0	100.0	100.2	100.2	0.1	0.1	-90.00	0.0	-30.0	30.0	29.7	0.29	102.462	
200.0	200.0	200.2	200.2	0.6	0.6	-90.00	0.0	-30.0	30.0	28.9	1.14	26.339	
300.0	300.0	300.2	300.2	1.0	1.0	-90.00	0.0	-30.0	30.0	28.0	1.99	15.112	
400.0	400.0	400.2	400.2	1.4	1.4	-90.00	0.0	-30.0	30.0	27.2	2.83	10.595	
500.0	500.0	500.2	500.2	1.8	1.8	-90.00	0.0	-30.0	30.0	26.3	3.68	8.157	
600.0	600.0	600.2	600.2	2.3	2.3	-90.00	0.0	-30.0	30.0	25.5	4.52	6.631	
700.0	700.0	700.2	700.2	2.7	2.7	-90.00	0.0	-30.0	30.0	24.6	5.37	5.586	
800.0	800.0	800.2	800.2	3.1	3.1	-90.00	0.0	-30.0	30.0	23.8	6.22	4.826	
900.0	900.0	900.2	900.2	3.5	3.5	-90.00	0.0	-30.0	30.0	22.9	7.06	4.248	
1,000.0	1,000.0	1,000.2	1,000.2	4.0	4.0	-90.00	0.0	-30.0	30.0	22.1	7.91	3.793	
1,100.0	1,100.0	1,100.2	1,100.2	4.4	4.4	-90.00	0.0	-30.0	30.0	21.2	8.75	3.427	
1,200.0	1,200.0	1,200.2	1,200.2	4.8	4.8	-90.00	0.0	-30.0	30.0	20.4	9.60	3.125	
1,300.0	1,300.0	1,300.2	1,300.2	5.2	5.2	-90.00	0.0	-30.0	30.0	19.6	10.45	2.872	
1,400.0	1,400.0	1,400.2	1,400.2	5.6	5.6	-90.00	0.0	-30.0	30.0	18.7	11.29	2.656	
1,500.0	1,500.0	1,500.2	1,500.2	6.1	6.1	-90.00	0.0	-30.0	30.0	17.9	12.14	2.471	
1,600.0	1,600.0	1,600.2	1,600.2	6.5	6.5	-90.00	0.0	-30.0	30.0	17.0	12.99	2.310	
1,700.0	1,700.0	1,700.2	1,700.2	6.9	6.9	-90.00	0.0	-30.0	30.0	16.2	13.83	2.169	
1,800.0	1,800.0	1,800.2	1,800.2	7.3	7.3	-90.00	0.0	-30.0	30.0	15.3	14.68	2.044	
1,900.0	1,900.0	1,900.2	1,900.2	7.8	7.8	-90.00	0.0	-30.0	30.0	14.5	15.52	1.932	
2,000.0	2,000.0	2,000.2	2,000.2	8.2	8.2	-90.00	0.0	-30.0	30.0	13.6	16.37	1.833	
2,100.0	2,100.0	2,100.2	2,100.2	8.6	8.6	-90.00	0.0	-30.0	30.0	12.8	17.22	1.742	

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

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Reference Well:	SRO 4 State Com #501H	**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 — **Rule Assigned:** — **Offset Well Error:** 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
2,200.0	2,200.0	2,200.2	2,200.2	9.0	9.0	-90.00	0.0	-30.0	30.0	11.9	18.06	1.661	
2,300.0	2,300.0	2,300.2	2,300.2	9.5	9.5	-90.00	0.0	-30.0	30.0	11.1	18.91	1.586	
2,400.0	2,400.0	2,400.2	2,400.2	9.9	9.9	-90.00	0.0	-30.0	30.0	10.2	19.76	1.519	
2,500.0	2,500.0	2,500.2	2,500.2	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	2,600.2	2,600.2	10.6	10.7	-157.35	0.0	-30.0	31.6	10.3	21.28	1.485	Level 3
2,700.0	2,699.8	2,700.0	2,700.0	10.6	11.1	-160.49	0.0	-30.0	36.5	14.7	21.79	1.674	
2,747.3	2,747.0	2,747.2	2,747.2	10.7	11.3	-162.23	0.0	-30.0	40.0	17.9	22.05	1.814	
2,800.0	2,799.5	2,799.7	2,799.7	10.8	11.6	-164.02	0.0	-30.0	44.3	22.0	22.33	1.986	
2,900.0	2,899.1	2,899.3	2,899.3	10.9	12.0	-166.60	0.0	-30.0	52.7	29.8	22.87	2.303	
3,000.0	2,998.8	2,999.0	2,999.0	11.0	12.4	-168.48	0.0	-30.0	61.1	37.7	23.44	2.607	
3,100.0	3,098.4	3,097.3	3,097.3	11.2	12.7	-168.72	1.2	-31.2	70.5	46.5	23.90	2.947	
3,200.0	3,198.0	3,195.7	3,195.5	11.4	13.0	-166.98	4.6	-34.6	81.6	57.3	24.29	3.359	
3,300.0	3,297.6	3,295.0	3,294.7	11.6	13.2	-165.23	8.7	-38.7	93.3	68.6	24.71	3.776	
3,400.0	3,397.3	3,394.2	3,393.8	11.8	13.4	-163.86	12.7	-42.8	105.1	79.9	25.14	4.178	
3,500.0	3,496.9	3,493.5	3,492.9	12.0	13.7	-162.77	16.8	-46.9	116.9	91.3	25.61	4.564	
3,600.0	3,596.5	3,592.8	3,592.0	12.3	14.0	-161.88	20.9	-51.0	128.7	102.6	26.09	4.934	
3,700.0	3,696.1	3,692.1	3,691.1	12.5	14.2	-161.14	24.9	-55.1	140.6	114.0	26.59	5.287	
3,800.0	3,795.8	3,791.4	3,790.2	12.8	14.5	-160.51	29.0	-59.2	152.5	125.4	27.11	5.624	
3,900.0	3,895.4	3,890.6	3,889.3	13.1	14.8	-159.98	33.1	-63.3	164.4	136.7	27.65	5.946	
4,000.0	3,995.0	3,989.9	3,988.4	13.4	15.1	-159.52	37.1	-67.3	176.3	148.1	28.20	6.251	
4,100.0	4,094.7	4,089.2	4,087.5	13.7	15.4	-159.11	41.2	-71.4	188.2	159.4	28.77	6.542	
4,200.0	4,194.3	4,188.5	4,186.6	14.0	15.7	-158.76	45.3	-75.5	200.1	170.8	29.35	6.819	
4,300.0	4,293.9	4,287.7	4,285.8	14.3	16.0	-158.44	49.3	-79.6	212.1	182.1	29.95	7.081	
4,400.0	4,393.5	4,387.0	4,384.9	14.6	16.3	-158.16	53.4	-83.7	224.0	193.5	30.56	7.331	
4,500.0	4,493.2	4,486.3	4,484.0	15.0	16.7	-157.91	57.5	-87.8	236.0	204.8	31.18	7.568	
4,600.0	4,592.8	4,585.6	4,583.1	15.3	17.0	-157.68	61.5	-91.9	247.9	216.1	31.82	7.793	
4,700.0	4,692.4	4,684.9	4,682.2	15.7	17.3	-157.47	65.6	-96.0	259.9	227.4	32.46	8.006	
4,800.0	4,792.1	4,784.1	4,781.3	16.0	17.7	-157.28	69.7	-100.1	271.9	238.7	33.12	8.209	
4,900.0	4,891.7	4,883.4	4,880.4	16.4	18.0	-157.11	73.7	-104.1	283.8	250.0	33.78	8.402	
5,000.0	4,991.3	4,982.7	4,979.5	16.7	18.4	-156.95	77.8	-108.2	295.8	261.3	34.45	8.585	
5,100.0	5,090.9	5,082.0	5,078.6	17.1	18.7	-156.80	81.9	-112.3	307.8	272.6	35.14	8.759	
5,200.0	5,190.6	5,181.2	5,177.8	17.5	19.1	-156.66	85.9	-116.4	319.7	283.9	35.83	8.925	
5,300.0	5,290.2	5,280.5	5,276.9	17.9	19.5	-156.54	90.0	-120.5	331.7	295.2	36.52	9.082	
5,400.0	5,389.8	5,379.8	5,376.0	18.2	19.8	-156.42	94.1	-124.6	343.7	306.5	37.23	9.232	
5,500.0	5,489.4	5,479.1	5,475.1	18.6	20.2	-156.31	98.1	-128.7	355.7	317.7	37.94	9.374	
5,600.0	5,589.1	5,578.4	5,574.2	19.0	20.6	-156.21	102.2	-132.8	367.6	329.0	38.66	9.510	
5,700.0	5,688.7	5,677.6	5,673.3	19.4	20.9	-156.11	106.3	-136.9	379.6	340.2	39.38	9.640	
5,800.0	5,788.3	5,776.9	5,772.4	19.8	21.3	-156.02	110.3	-140.9	391.6	351.5	40.11	9.763	
5,900.0	5,888.0	5,876.2	5,871.5	20.2	21.7	-155.94	114.4	-145.0	403.6	362.7	40.84	9.881	
6,000.0	5,987.6	5,975.5	5,970.6	20.6	22.1	-155.86	118.4	-149.1	415.6	374.0	41.58	9.993	
6,100.0	6,087.2	6,074.8	6,069.7	21.0	22.4	-155.78	122.5	-153.2	427.5	385.2	42.33	10.101	
6,200.0	6,186.8	6,174.0	6,168.9	21.4	22.8	-155.71	126.6	-157.3	439.5	396.4	43.08	10.203	
6,300.0	6,286.5	6,273.3	6,268.0	21.9	23.2	-155.64	130.6	-161.4	451.5	407.7	43.83	10.301	
6,400.0	6,386.1	6,372.6	6,367.1	22.3	23.6	-155.58	134.7	-165.5	463.5	418.9	44.59	10.395	
6,500.0	6,485.7	6,471.9	6,466.2	22.7	24.0	-155.52	138.8	-169.6	475.5	430.1	45.35	10.485	
6,600.0	6,585.4	6,571.1	6,565.3	23.1	24.4	-155.46	142.8	-173.7	487.5	441.3	46.11	10.571	
6,700.0	6,685.0	6,670.4	6,664.4	23.5	24.8	-155.41	146.9	-177.7	499.4	452.6	46.88	10.653	
6,800.0	6,784.6	6,769.7	6,763.5	23.9	25.2	-155.35	151.0	-181.8	511.4	463.8	47.65	10.732	
6,900.0	6,884.2	6,869.0	6,862.6	24.4	25.6	-155.30	155.0	-185.9	523.4	475.0	48.43	10.808	
7,000.0	6,983.9	6,968.3	6,961.7	24.8	26.0	-155.26	159.1	-190.0	535.4	486.2	49.21	10.881	
7,100.0	7,083.5	7,067.5	7,060.9	25.2	26.4	-155.21	163.2	-194.1	547.4	497.4	49.99	10.950	
7,200.0	7,183.1	7,166.8	7,160.0	25.6	26.8	-155.17	167.2	-198.2	559.4	508.6	50.77	11.017	

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Survey Program: 0-MWD, 7356-MWD+IFR1+MS

Rule Assigned:

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
7,300.0	7,282.7	7,266.1	7,259.1	26.1	27.2	-155.12	171.3	-202.3	571.4	519.8	51.56	11.082	
7,400.0	7,382.4	7,365.4	7,358.3	26.5	27.6	-155.09	175.3	-206.4	583.3	531.0	52.33	11.148	
7,487.6	7,469.6	7,452.3	7,444.9	26.9	27.6	-155.83	170.9	-210.0	593.8	541.1	52.73	11.261	
7,500.0	7,482.0	7,464.5	7,456.9	26.9	27.6	-170.50	169.2	-210.5	595.3	542.6	52.74	11.287	
7,550.0	7,531.8	7,512.8	7,504.3	26.9	27.6	135.35	160.1	-212.5	601.4	548.7	52.72	11.407	
7,600.0	7,581.3	7,560.5	7,550.1	26.9	27.6	113.25	147.2	-214.5	607.6	554.9	52.70	11.530	
7,650.0	7,630.1	7,607.6	7,594.3	26.9	27.6	103.57	130.8	-216.4	613.7	561.1	52.66	11.654	
7,700.0	7,677.8	7,654.2	7,636.4	26.9	27.6	98.03	111.0	-218.3	619.8	567.2	52.63	11.778	
7,750.0	7,724.1	7,700.0	7,676.1	26.9	27.6	94.28	88.3	-220.0	625.8	573.2	52.58	11.902	
7,800.0	7,768.6	7,746.1	7,714.1	27.0	27.6	91.48	62.3	-221.8	631.6	579.1	52.54	12.022	
7,850.0	7,811.0	7,791.4	7,749.4	27.0	27.6	89.26	33.9	-223.4	637.2	584.7	52.49	12.139	
7,900.0	7,850.9	7,836.4	7,782.0	27.0	27.7	87.44	3.0	-224.9	642.5	590.0	52.44	12.252	
7,950.0	7,888.1	7,881.1	7,811.9	27.0	27.7	85.91	-30.1	-226.3	647.4	595.1	52.39	12.357	
8,000.0	7,922.3	7,925.5	7,839.0	27.0	27.7	84.61	-65.3	-227.6	652.0	599.7	52.35	12.455	
8,050.0	7,953.2	7,969.7	7,863.2	27.0	27.7	83.51	-102.2	-228.8	656.2	603.9	52.32	12.543	
8,100.0	7,980.5	8,013.6	7,884.3	27.0	27.7	82.59	-140.7	-229.9	659.9	607.6	52.29	12.620	
8,150.0	8,004.1	8,057.4	7,902.4	27.0	27.7	81.82	-180.6	-230.9	663.1	610.8	52.27	12.685	
8,200.0	8,023.8	8,100.0	7,917.1	27.0	27.7	81.20	-220.6	-231.7	665.8	613.5	52.27	12.738	
8,250.0	8,039.5	8,144.5	7,929.1	27.0	27.7	80.71	-263.4	-232.5	668.0	615.7	52.29	12.775	
8,300.0	8,050.9	8,187.9	7,937.6	27.0	27.7	80.35	-305.9	-233.0	669.5	617.2	52.32	12.797	
8,350.0	8,058.1	8,231.2	7,942.9	27.0	27.7	80.13	-348.9	-233.5	670.5	618.2	52.37	12.804	
8,400.0	8,060.9	8,274.6	7,945.0	27.0	27.7	80.03	-392.2	-233.8	671.0	618.5	52.44	12.796	
8,409.5	8,061.0	8,283.1	7,945.0	27.0	27.7	80.03	-400.7	-233.9	671.0	618.5	52.45	12.792	
8,500.0	8,060.7	8,373.6	7,944.8	27.0	27.7	80.03	-491.2	-234.4	670.9	618.3	52.62	12.752	
8,600.0	8,060.4	8,473.6	7,944.6	27.0	27.7	80.04	-591.2	-234.9	670.9	618.1	52.84	12.698	
8,700.0	8,060.1	8,573.6	7,944.4	27.0	27.8	80.05	-691.2	-235.4	670.9	617.8	53.10	12.634	
8,800.0	8,059.8	8,673.6	7,944.2	27.0	27.9	80.06	-791.2	-236.0	670.9	617.5	53.41	12.560	
8,900.0	8,059.5	8,773.6	7,944.0	27.0	28.1	80.06	-891.2	-236.5	670.9	617.1	53.76	12.478	
9,000.0	8,059.3	8,873.6	7,943.8	27.0	28.3	80.07	-991.2	-237.1	670.8	616.7	54.15	12.387	
9,100.0	8,059.0	8,973.6	7,943.6	27.1	28.5	80.08	-1,091.2	-237.6	670.8	616.2	54.59	12.289	
9,200.0	8,058.7	9,073.6	7,943.4	27.2	28.7	80.09	-1,191.2	-238.1	670.8	615.7	55.06	12.184	
9,300.0	8,058.4	9,173.6	7,943.2	27.4	29.0	80.09	-1,291.2	-238.7	670.8	615.2	55.56	12.072	
9,400.0	8,058.1	9,273.6	7,943.0	27.7	29.2	80.10	-1,391.2	-239.2	670.7	614.6	56.11	11.954	
9,500.0	8,057.8	9,373.6	7,942.8	27.9	29.5	80.11	-1,491.2	-239.8	670.7	614.0	56.69	11.831	
9,600.0	8,057.5	9,473.6	7,942.6	28.3	29.8	80.12	-1,591.2	-240.3	670.7	613.4	57.31	11.703	
9,700.0	8,057.2	9,573.6	7,942.4	28.6	30.1	80.12	-1,691.2	-240.8	670.7	612.7	57.96	11.571	
9,800.0	8,056.9	9,673.6	7,942.2	28.9	30.5	80.13	-1,791.2	-241.4	670.6	612.0	58.64	11.436	
9,900.0	8,056.6	9,773.6	7,942.0	29.3	30.8	80.14	-1,891.2	-241.9	670.6	611.3	59.36	11.298	
10,000.0	8,056.3	9,873.6	7,941.8	29.7	31.2	80.15	-1,991.2	-242.5	670.6	610.5	60.10	11.157	
10,100.0	8,056.0	9,973.6	7,941.6	30.1	31.5	80.15	-2,091.2	-243.0	670.6	609.7	60.88	11.015	
10,200.0	8,055.7	10,073.6	7,941.4	30.5	31.9	80.16	-2,191.2	-243.6	670.5	608.9	61.68	10.871	
10,300.0	8,055.4	10,173.6	7,941.2	30.9	32.3	80.17	-2,291.2	-244.1	670.5	608.0	62.51	10.727	
10,400.0	8,055.2	10,273.6	7,941.0	31.3	32.7	80.18	-2,391.2	-244.6	670.5	607.1	63.37	10.581	
10,500.0	8,054.9	10,373.6	7,940.8	31.8	33.2	80.18	-2,491.2	-245.2	670.5	606.2	64.25	10.436	
10,600.0	8,054.6	10,473.6	7,940.6	32.3	33.6	80.19	-2,591.2	-245.7	670.4	605.3	65.15	10.290	
10,700.0	8,054.3	10,573.6	7,940.4	32.7	34.1	80.20	-2,691.2	-246.3	670.4	604.3	66.08	10.146	
10,800.0	8,054.0	10,673.6	7,940.2	33.2	34.5	80.21	-2,791.2	-246.8	670.4	603.4	67.03	10.001	
10,900.0	8,053.7	10,773.6	7,940.0	33.7	35.0	80.21	-2,891.2	-247.3	670.4	602.4	68.00	9.858	
11,000.0	8,053.4	10,873.6	7,939.7	34.2	35.5	80.22	-2,991.2	-247.9	670.3	601.4	68.99	9.716	
11,100.0	8,053.1	10,973.6	7,939.5	34.7	36.0	80.23	-3,091.2	-248.4	670.3	600.3	70.00	9.576	
11,200.0	8,052.8	11,073.6	7,939.3	35.2	36.5	80.24	-3,191.2	-249.0	670.3	599.3	71.03	9.437	
11,300.0	8,052.5	11,173.6	7,939.1	35.8	37.0	80.24	-3,291.2	-249.5	670.3	598.2	72.08	9.299	

Company:	Concho Resources, Inc.	**Local Co-ordinate Reference:**	Well SRO 4 State Com #501H
Project:	Eddy County (NAD27 NME)	**TVD Reference:**	KB @ 3020.7usft (Precision 106)
Reference Site:	(SRO 4 State Com) Sec-4_T-26-S_R-28-E	**MD Reference:**	KB @ 3020.7usft (Precision 106)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	SRO 4 State Com #501H	**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 — **Rule Assigned:** — **Offset Well Error:** 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
11,400.0	8,052.2	11,273.6	7,938.9	36.3	37.5	80.25	-3,391.2	-250.0	670.3	597.1	73.14	9.164	
11,500.0	8,051.9	11,373.6	7,938.7	36.8	38.0	80.26	-3,491.2	-250.6	670.2	596.0	74.22	9.030	
11,600.0	8,051.6	11,473.6	7,938.5	37.4	38.5	80.27	-3,591.2	-251.1	670.2	594.9	75.32	8.898	
11,700.0	8,051.3	11,573.6	7,938.3	38.0	39.1	80.27	-3,691.2	-251.7	670.2	593.8	76.43	8.768	
11,800.0	8,051.1	11,673.6	7,938.1	38.5	39.6	80.28	-3,791.2	-252.2	670.2	592.6	77.56	8.641	
11,900.0	8,050.8	11,773.6	7,937.9	39.1	40.2	80.29	-3,891.2	-252.7	670.1	591.4	78.69	8.516	
12,000.0	8,050.5	11,873.6	7,937.7	39.7	40.8	80.30	-3,991.1	-253.3	670.1	590.3	79.85	8.393	
12,100.0	8,050.2	11,973.6	7,937.5	40.3	41.3	80.31	-4,091.1	-253.8	670.1	589.1	81.01	8.272	
12,200.0	8,049.9	12,073.6	7,937.3	40.9	41.9	80.31	-4,191.1	-254.4	670.1	587.9	82.19	8.153	
12,300.0	8,049.6	12,173.6	7,937.1	41.5	42.5	80.32	-4,291.1	-254.9	670.0	586.7	83.37	8.037	
12,400.0	8,049.3	12,273.6	7,936.9	42.1	43.1	80.33	-4,391.1	-255.4	670.0	585.4	84.57	7.922	
12,500.0	8,049.0	12,373.6	7,936.7	42.7	43.7	80.34	-4,491.1	-256.0	670.0	584.2	85.78	7.810	
12,600.0	8,048.7	12,473.6	7,936.5	43.3	44.3	80.34	-4,591.1	-256.5	670.0	583.0	87.00	7.701	
12,700.0	8,048.4	12,573.6	7,936.3	43.9	44.9	80.35	-4,691.1	-257.1	669.9	581.7	88.23	7.593	
12,800.0	8,048.1	12,673.6	7,936.1	44.5	45.5	80.36	-4,791.1	-257.6	669.9	580.5	89.47	7.488	
12,900.0	8,047.8	12,773.6	7,935.9	45.1	46.1	80.37	-4,891.1	-258.1	669.9	579.2	90.71	7.385	
13,000.0	8,047.5	12,873.6	7,935.7	45.8	46.7	80.37	-4,991.1	-258.7	669.9	577.9	91.97	7.284	
13,100.0	8,047.2	12,973.6	7,935.5	46.4	47.3	80.38	-5,091.1	-259.2	669.8	576.6	93.23	7.185	
13,200.0	8,047.0	13,073.6	7,935.3	47.1	47.9	80.39	-5,191.1	-259.8	669.8	575.3	94.51	7.088	
13,300.0	8,046.7	13,173.6	7,935.1	47.7	48.6	80.40	-5,291.1	-260.3	669.8	574.0	95.78	6.993	
13,400.0	8,046.4	13,273.6	7,934.9	48.3	49.2	80.40	-5,391.1	-260.8	669.8	572.7	97.07	6.900	
13,500.0	8,046.1	13,373.6	7,934.7	49.0	49.8	80.41	-5,491.1	-261.4	669.8	571.4	98.36	6.809	
13,600.0	8,045.8	13,473.6	7,934.5	49.6	50.5	80.42	-5,591.1	-261.9	669.7	570.1	99.66	6.720	
13,700.0	8,045.5	13,573.6	7,934.3	50.3	51.1	80.43	-5,691.1	-262.5	669.7	568.7	100.97	6.633	
13,800.0	8,045.2	13,673.6	7,934.1	51.0	51.8	80.43	-5,791.1	-263.0	669.7	567.4	102.28	6.547	
13,900.0	8,044.9	13,773.6	7,933.9	51.6	52.4	80.44	-5,891.1	-263.6	669.7	566.1	103.60	6.464	
14,000.0	8,044.6	13,873.6	7,933.7	52.3	53.1	80.45	-5,991.1	-264.1	669.6	564.7	104.93	6.382	
14,100.0	8,044.3	13,973.6	7,933.5	53.0	53.7	80.46	-6,091.1	-264.6	669.6	563.4	106.26	6.302	
14,200.0	8,044.0	14,073.6	7,933.3	53.6	54.4	80.46	-6,191.1	-265.2	669.6	562.0	107.59	6.223	
14,300.0	8,043.7	14,173.6	7,933.1	54.3	55.1	80.47	-6,291.1	-265.7	669.6	560.6	108.93	6.147	
14,400.0	8,043.4	14,273.6	7,932.9	55.0	55.7	80.48	-6,391.1	-266.3	669.5	559.3	110.28	6.072	
14,500.0	8,043.1	14,373.6	7,932.7	55.6	56.4	80.49	-6,491.1	-266.8	669.5	557.9	111.63	5.998	
14,600.0	8,042.9	14,473.6	7,932.5	56.3	57.1	80.49	-6,591.1	-267.3	669.5	556.5	112.98	5.926	
14,700.0	8,042.6	14,573.6	7,932.3	57.0	57.7	80.50	-6,691.1	-267.9	669.5	555.1	114.34	5.855	
14,800.0	8,042.3	14,673.6	7,932.1	57.7	58.4	80.51	-6,791.1	-268.4	669.4	553.7	115.70	5.786	
14,900.0	8,042.0	14,773.6	7,931.9	58.4	59.1	80.52	-6,891.1	-269.0	669.4	552.4	117.07	5.718	
15,000.0	8,041.7	14,873.6	7,931.7	59.1	59.8	80.52	-6,991.1	-269.5	669.4	551.0	118.44	5.652	
15,100.0	8,041.4	14,973.6	7,931.5	59.7	60.4	80.53	-7,091.1	-270.0	669.4	549.6	119.82	5.587	
15,200.0	8,041.1	15,073.6	7,931.3	60.4	61.1	80.54	-7,191.1	-270.6	669.4	548.2	121.19	5.523	
15,300.0	8,040.8	15,173.6	7,931.1	61.1	61.8	80.55	-7,291.1	-271.1	669.3	546.8	122.58	5.461	
15,400.0	8,040.5	15,273.6	7,930.9	61.8	62.5	80.55	-7,391.1	-271.7	669.3	545.3	123.96	5.399	
15,500.0	8,040.2	15,373.6	7,930.7	62.5	63.2	80.56	-7,491.1	-272.2	669.3	543.9	125.35	5.339	
15,600.0	8,039.9	15,473.6	7,930.5	63.2	63.9	80.57	-7,591.1	-272.7	669.3	542.5	126.74	5.280	
15,700.0	8,039.6	15,573.6	7,930.3	63.9	64.6	80.58	-7,691.1	-273.3	669.2	541.1	128.14	5.223	
15,800.0	8,039.3	15,673.6	7,930.1	64.6	65.3	80.58	-7,791.1	-273.8	669.2	539.7	129.54	5.166	
15,900.0	8,039.0	15,773.6	7,929.9	65.3	66.0	80.59	-7,891.1	-274.4	669.2	538.3	130.94	5.111	
16,000.0	8,038.8	15,873.6	7,929.7	66.0	66.6	80.60	-7,991.1	-274.9	669.2	536.8	132.34	5.056	
16,100.0	8,038.5	15,973.6	7,929.5	66.7	67.3	80.61	-8,091.1	-275.4	669.1	535.4	133.75	5.003	
16,200.0	8,038.2	16,073.6	7,929.3	67.4	68.0	80.62	-8,191.1	-276.0	669.1	534.0	135.16	4.951	
16,300.0	8,037.9	16,173.6	7,929.1	68.1	68.7	80.62	-8,291.1	-276.5	669.1	532.5	136.57	4.899	
16,400.0	8,037.6	16,273.6	7,928.9	68.9	69.4	80.63	-8,391.1	-277.1	669.1	531.1	137.99	4.849	
16,500.0	8,037.3	16,373.6	7,928.7	69.6	70.2	80.64	-8,491.1	-277.6	669.1	529.6	139.40	4.799	

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

Company:	Concho Resources, Inc.	**Local Co-ordinate Reference:**	Well SRO 4 State Com #501H
Project:	Eddy County (NAD27 NME)	**TVD Reference:**	KB @ 3020.7usft (Precision 106)
Reference Site:	(SRO 4 State Com) Sec-4_T-26-S_R-28-E	**MD Reference:**	KB @ 3020.7usft (Precision 106)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	SRO 4 State Com #501H	**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

Rule Assigned:

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
16,600.0	8,037.0	16,473.6	7,928.5	70.3	70.9	80.65	-8,591.1	-278.1	669.0	528.2	140.82	4.751	
16,700.0	8,036.7	16,573.6	7,928.3	71.0	71.6	80.65	-8,691.1	-278.7	669.0	526.8	142.24	4.703	
16,800.0	8,036.4	16,673.6	7,928.1	71.7	72.3	80.66	-8,791.1	-279.2	669.0	525.3	143.67	4.656	
16,900.0	8,036.1	16,773.6	7,927.8	72.4	73.0	80.67	-8,891.1	-279.8	669.0	523.9	145.09	4.611	
17,000.0	8,035.8	16,873.6	7,927.6	73.1	73.7	80.68	-8,991.1	-280.3	668.9	522.4	146.52	4.565	
17,100.0	8,035.5	16,973.6	7,927.4	73.8	74.4	80.68	-9,091.1	-280.8	668.9	521.0	147.95	4.521	
17,200.0	8,035.2	17,073.6	7,927.2	74.6	75.1	80.69	-9,191.1	-281.4	668.9	519.5	149.38	4.478	
17,300.0	8,035.0	17,173.6	7,927.0	75.3	75.8	80.70	-9,291.1	-281.9	668.9	518.0	150.82	4.435	
17,400.0	8,034.7	17,273.6	7,926.8	76.0	76.5	80.71	-9,391.1	-282.5	668.8	516.6	152.25	4.393	
17,500.0	8,034.4	17,373.6	7,926.6	76.7	77.2	80.71	-9,491.1	-283.0	668.8	515.1	153.69	4.352	
17,600.0	8,034.1	17,473.6	7,926.4	77.4	78.0	80.72	-9,591.1	-283.5	668.8	513.7	155.13	4.311	
17,700.0	8,033.8	17,573.6	7,926.2	78.2	78.7	80.73	-9,691.1	-284.1	668.8	512.2	156.57	4.271	
17,800.0	8,033.5	17,673.6	7,926.0	78.9	79.4	80.74	-9,791.1	-284.6	668.8	510.7	158.02	4.232	
17,900.0	8,033.2	17,773.6	7,925.8	79.6	80.1	80.74	-9,891.0	-285.2	668.7	509.3	159.46	4.194	
18,000.0	8,032.9	17,873.6	7,925.6	80.3	80.8	80.75	-9,991.0	-285.7	668.7	507.8	160.91	4.156	
18,100.0	8,032.6	17,973.6	7,925.4	81.1	81.6	80.76	-10,091.0	-286.3	668.7	506.3	162.35	4.119	
18,200.0	8,032.3	18,073.6	7,925.2	81.8	82.3	80.77	-10,191.0	-286.8	668.7	504.9	163.80	4.082	
18,307.8	8,032.0	18,181.4	7,925.0	82.6	83.1	80.77	-10,298.8	-287.4	668.6	503.3	165.37	4.043	
18,308.2	8,032.0	18,181.7	7,925.0	82.6	83.1	80.77	-10,299.2	-287.4	668.6	503.3	165.37	4.043	

Company:	Concho Resources, Inc.	**Local Co-ordinate Reference:**	Well SRO 4 State Com #501H
Project:	Eddy County (NAD27 NME)	**TVD Reference:**	KB @ 3020.7usft (Precision 106)
Reference Site:	(SRO 4 State Com) Sec-4_T-26-S_R-28-E	**MD Reference:**	KB @ 3020.7usft (Precision 106)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	SRO 4 State Com #501H	**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 #503H - OWB - Plan #1

Offset Site Error: 0.0 usft

Survey Program: 0-MWD, 7484-MWD+IFR1+MS

Rule Assigned:

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.5	0.5	0.0	0.0	-90.00	0.0	-60.0	60.0				
100.0	100.0	100.5	100.5	0.1	0.1	-90.00	0.0	-60.0	60.0	59.7	0.29	204.039	
200.0	200.0	200.5	200.5	0.6	0.6	-90.00	0.0	-60.0	60.0	58.9	1.14	52.619	
300.0	300.0	300.5	300.5	1.0	1.0	-90.00	0.0	-60.0	60.0	58.0	1.99	30.204	
400.0	400.0	400.5	400.5	1.4	1.4	-90.00	0.0	-60.0	60.0	57.2	2.83	21.181	
500.0	500.0	500.5	500.5	1.8	1.8	-90.00	0.0	-60.0	60.0	56.3	3.68	16.309	
600.0	600.0	600.5	600.5	2.3	2.3	-90.00	0.0	-60.0	60.0	55.5	4.53	13.259	
700.0	700.0	700.5	700.5	2.7	2.7	-90.00	0.0	-60.0	60.0	54.6	5.37	11.170	
800.0	800.0	800.5	800.5	3.1	3.1	-90.00	0.0	-60.0	60.0	53.8	6.22	9.650	
900.0	900.0	900.5	900.5	3.5	3.5	-90.00	0.0	-60.0	60.0	52.9	7.06	8.494	
1,000.0	1,000.0	1,000.5	1,000.5	4.0	4.0	-90.00	0.0	-60.0	60.0	52.1	7.91	7.585	
1,100.0	1,100.0	1,100.5	1,100.5	4.4	4.4	-90.00	0.0	-60.0	60.0	51.2	8.76	6.852	
1,200.0	1,200.0	1,200.5	1,200.5	4.8	4.8	-90.00	0.0	-60.0	60.0	50.4	9.60	6.248	
1,300.0	1,300.0	1,300.5	1,300.5	5.2	5.2	-90.00	0.0	-60.0	60.0	49.6	10.45	5.742	
1,400.0	1,400.0	1,400.5	1,400.5	5.6	5.6	-90.00	0.0	-60.0	60.0	48.7	11.29	5.312	
1,500.0	1,500.0	1,500.5	1,500.5	6.1	6.1	-90.00	0.0	-60.0	60.0	47.9	12.14	4.942	
1,600.0	1,600.0	1,600.5	1,600.5	6.5	6.5	-90.00	0.0	-60.0	60.0	47.0	12.99	4.620	
1,700.0	1,700.0	1,700.5	1,700.5	6.9	6.9	-90.00	0.0	-60.0	60.0	46.2	13.83	4.337	
1,800.0	1,800.0	1,800.5	1,800.5	7.3	7.3	-90.00	0.0	-60.0	60.0	45.3	14.68	4.087	
1,900.0	1,900.0	1,900.5	1,900.5	7.8	7.8	-90.00	0.0	-60.0	60.0	44.5	15.53	3.864	
2,000.0	2,000.0	2,000.5	2,000.5	8.2	8.2	-90.00	0.0	-60.0	60.0	43.6	16.37	3.665	
2,100.0	2,100.0	2,100.5	2,100.5	8.6	8.6	-90.00	0.0	-60.0	60.0	42.8	17.22	3.485	
2,200.0	2,200.0	2,200.5	2,200.5	9.0	9.0	-90.00	0.0	-60.0	60.0	41.9	18.06	3.321	
2,300.0	2,300.0	2,300.5	2,300.5	9.5	9.5	-90.00	0.0	-60.0	60.0	41.1	18.91	3.173	
2,400.0	2,400.0	2,400.5	2,400.5	9.9	9.9	-90.00	0.0	-60.0	60.0	40.2	19.76	3.037	
2,416.5	2,416.5	2,417.0	2,417.0	9.9	9.9	-90.00	0.0	-60.0	60.0	40.1	19.90	3.016	CC
2,500.0	2,500.0	2,500.0	2,500.0	10.3	10.3	-90.00	0.0	-60.0	60.0	39.4	20.60	2.913	ES, SF
2,600.0	2,600.0	2,598.4	2,598.3	10.6	10.5	-156.42	0.3	-61.7	63.3	42.2	21.06	3.005	
2,700.0	2,699.8	2,695.6	2,695.4	10.6	10.6	-157.25	1.1	-66.6	73.1	52.0	21.17	3.455	
2,747.3	2,747.0	2,741.2	2,740.9	10.7	10.6	-157.71	1.7	-70.0	80.1	58.8	21.22	3.772	
2,800.0	2,799.5	2,792.8	2,792.3	10.8	10.6	-158.21	2.5	-74.5	88.8	67.5	21.30	4.168	
2,900.0	2,899.1	2,891.4	2,890.5	10.9	10.7	-158.93	4.0	-83.1	105.4	83.9	21.49	4.904	
3,000.0	2,998.8	2,990.0	2,988.7	11.0	10.8	-159.46	5.5	-91.7	122.0	100.3	21.72	5.620	
3,100.0	3,098.4	3,088.6	3,086.9	11.2	10.9	-159.86	7.0	-100.3	138.7	116.7	21.97	6.313	
3,200.0	3,198.0	3,187.2	3,185.2	11.4	11.0	-160.18	8.5	-108.9	155.3	133.1	22.25	6.980	
3,300.0	3,297.6	3,285.8	3,283.4	11.6	11.2	-160.43	10.0	-117.5	172.0	149.4	22.56	7.622	
3,400.0	3,397.3	3,384.4	3,381.6	11.8	11.3	-160.64	11.5	-126.1	188.6	165.7	22.90	8.237	
3,500.0	3,496.9	3,483.0	3,479.8	12.0	11.5	-160.81	13.0	-134.7	205.3	182.0	23.27	8.823	
3,600.0	3,596.5	3,581.6	3,578.0	12.3	11.7	-160.96	14.5	-143.3	222.0	198.3	23.66	9.382	
3,700.0	3,696.1	3,680.2	3,676.2	12.5	11.9	-161.09	16.0	-151.9	238.6	214.6	24.07	9.913	
3,800.0	3,795.8	3,778.8	3,774.4	12.8	12.2	-161.20	17.5	-160.5	255.3	230.8	24.51	10.416	
3,900.0	3,895.4	3,877.4	3,872.7	13.1	12.4	-161.30	19.0	-169.2	271.9	247.0	24.97	10.893	
4,000.0	3,995.0	3,976.0	3,970.9	13.4	12.7	-161.39	20.5	-177.8	288.6	263.2	25.44	11.343	
4,100.0	4,094.7	4,074.6	4,069.1	13.7	12.9	-161.46	22.0	-186.4	305.3	279.3	25.94	11.768	
4,200.0	4,194.3	4,173.2	4,167.3	14.0	13.2	-161.53	23.5	-195.0	321.9	295.5	26.46	12.168	
4,300.0	4,293.9	4,271.8	4,265.5	14.3	13.5	-161.59	25.0	-203.6	338.6	311.6	26.99	12.546	
4,400.0	4,393.5	4,370.4	4,363.7	14.6	13.8	-161.65	26.5	-212.2	355.3	327.7	27.54	12.901	
4,500.0	4,493.2	4,469.0	4,461.9	15.0	14.1	-161.70	28.0	-220.8	371.9	343.8	28.10	13.235	
4,600.0	4,592.8	4,567.6	4,560.1	15.3	14.4	-161.75	29.5	-229.4	388.6	359.9	28.68	13.549	
4,700.0	4,692.4	4,666.2	4,658.4	15.7	14.7	-161.79	31.0	-238.0	405.3	376.0	29.27	13.845	
4,800.0	4,792.1	4,764.8	4,756.6	16.0	15.1	-161.83	32.5	-246.6	421.9	392.1	29.88	14.122	
4,900.0	4,891.7	4,863.4	4,854.8	16.4	15.4	-161.87	34.0	-255.2	438.6	408.1	30.49	14.383	

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

Company:	Concho Resources, Inc.	**Local Co-ordinate Reference:**	Well SRO 4 State Com #501H
Project:	Eddy County (NAD27 NME)	**TVD Reference:**	KB @ 3020.7usft (Precision 106)
Reference Site:	(SRO 4 State Com) Sec-4_T-26-S_R-28-E	**MD Reference:**	KB @ 3020.7usft (Precision 106)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	SRO 4 State Com #501H	**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 #503H - OWB - Plan #1

Offset Site Error: 0.0 usft

Survey Program: 0-MWD, 7484-MWD+IFR1+MS

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.0	4,991.3	4,962.0	4,953.0	16.7	15.7	-161.90	35.5	-263.8	455.3	424.1	31.12	14.629	
5,100.0	5,090.9	5,060.6	5,051.2	17.1	16.1	-161.93	37.0	-272.4	471.9	440.2	31.76	14.860	
5,200.0	5,190.6	5,159.2	5,149.4	17.5	16.5	-161.96	38.5	-281.1	488.6	456.2	32.41	15.077	
5,300.0	5,290.2	5,257.8	5,247.6	17.9	16.8	-161.99	40.0	-289.7	505.3	472.2	33.06	15.281	
5,400.0	5,389.8	5,356.4	5,345.8	18.2	17.2	-162.02	41.5	-298.3	521.9	488.2	33.73	15.474	
5,500.0	5,489.4	5,455.0	5,444.1	18.6	17.6	-162.04	43.0	-306.9	538.6	504.2	34.40	15.655	
5,600.0	5,589.1	5,553.6	5,542.3	19.0	17.9	-162.06	44.5	-315.5	555.3	520.2	35.09	15.825	
5,700.0	5,688.7	5,652.2	5,640.5	19.4	18.3	-162.08	46.0	-324.1	571.9	536.2	35.78	15.986	
5,800.0	5,788.3	5,750.8	5,738.7	19.8	18.7	-162.10	47.5	-332.7	588.6	552.1	36.47	16.138	
5,900.0	5,888.0	5,849.4	5,836.9	20.2	19.1	-162.12	49.0	-341.3	605.3	568.1	37.18	16.281	
6,000.0	5,987.6	5,948.0	5,935.1	20.6	19.5	-162.14	50.5	-349.9	621.9	584.0	37.89	16.416	
6,100.0	6,087.2	6,046.6	6,033.3	21.0	19.9	-162.16	52.0	-358.5	638.6	600.0	38.60	16.543	
6,200.0	6,186.8	6,145.2	6,131.6	21.4	20.3	-162.18	53.5	-367.1	655.3	615.9	39.32	16.664	
6,300.0	6,286.5	6,243.8	6,229.8	21.9	20.7	-162.19	55.0	-375.7	671.9	631.9	40.05	16.778	
6,400.0	6,386.1	6,342.4	6,328.0	22.3	21.1	-162.21	56.5	-384.3	688.6	647.8	40.78	16.886	
6,500.0	6,485.7	6,441.0	6,426.2	22.7	21.5	-162.22	58.0	-392.9	705.3	663.8	41.52	16.988	
6,600.0	6,585.4	6,539.6	6,524.4	23.1	21.9	-162.23	59.5	-401.6	721.9	679.7	42.26	17.085	
6,700.0	6,685.0	6,638.2	6,622.6	23.5	22.3	-162.25	61.0	-410.2	738.6	695.6	43.00	17.176	
6,800.0	6,784.6	6,736.8	6,720.8	23.9	22.7	-162.26	62.5	-418.8	755.3	711.5	43.75	17.263	
6,900.0	6,884.2	6,835.4	6,819.0	24.4	23.1	-162.27	64.0	-427.4	771.9	727.4	44.50	17.346	
7,000.0	6,983.9	6,934.0	6,917.3	24.8	23.5	-162.28	65.5	-436.0	788.6	743.3	45.26	17.425	
7,100.0	7,083.5	7,032.6	7,015.5	25.2	24.0	-162.29	67.0	-444.6	805.3	759.3	46.02	17.499	
7,200.0	7,183.1	7,131.2	7,113.7	25.6	24.4	-162.30	68.5	-453.2	821.9	775.2	46.78	17.570	
7,300.0	7,282.7	7,229.8	7,211.9	26.1	24.8	-162.31	70.0	-461.8	838.6	791.1	47.55	17.637	
7,400.0	7,382.4	7,328.4	7,310.1	26.5	25.2	-162.32	71.5	-470.4	855.3	807.0	48.32	17.702	
7,487.6	7,469.6	7,414.8	7,396.1	26.9	25.6	-162.33	72.8	-478.0	869.9	820.9	48.96	17.766	
7,500.0	7,482.0	7,427.0	7,408.3	26.9	25.6	-176.85	73.0	-479.0	871.9	822.9	48.99	17.798	
7,550.0	7,531.8	7,476.3	7,457.4	26.9	25.7	129.76	73.8	-483.3	879.9	830.8	49.09	17.925	
7,600.0	7,581.3	7,500.0	7,481.0	26.9	25.7	108.37	73.9	-485.5	887.8	838.8	49.00	18.118	
7,650.0	7,630.1	7,537.7	7,518.5	26.9	25.7	99.54	72.4	-489.5	896.1	847.1	48.95	18.306	
7,700.0	7,677.8	7,566.7	7,547.0	26.9	25.7	94.72	69.6	-493.2	905.0	856.1	48.86	18.523	
7,750.0	7,724.1	7,600.0	7,579.6	26.9	25.7	91.73	64.7	-498.0	914.4	865.6	48.79	18.741	
7,800.0	7,768.6	7,624.2	7,603.0	27.0	25.8	89.49	60.0	-501.9	924.2	875.6	48.67	18.989	
7,850.0	7,811.0	7,650.0	7,627.7	27.0	25.8	87.79	54.0	-506.4	934.5	886.0	48.57	19.240	
7,900.0	7,850.9	7,681.3	7,657.2	27.0	25.8	86.55	45.3	-512.3	945.2	896.7	48.53	19.477	
7,950.0	7,888.1	7,709.7	7,683.4	27.0	25.8	85.49	36.0	-518.1	956.3	907.8	48.49	19.721	
8,000.0	7,922.3	7,738.0	7,709.0	27.0	25.8	84.59	25.6	-524.3	967.8	919.3	48.48	19.962	
8,050.0	7,953.2	7,766.3	7,734.0	27.0	25.8	83.82	14.0	-530.9	979.6	931.1	48.50	20.197	
8,100.0	7,980.5	7,800.0	7,762.8	27.0	25.8	83.31	-1.4	-539.1	991.7	943.1	48.58	20.412	
8,150.0	8,004.1	7,823.0	7,781.8	27.0	25.9	82.55	-12.8	-545.1	1,004.1	955.4	48.63	20.645	
8,200.0	8,023.8	7,850.0	7,803.6	27.0	25.9	81.99	-27.1	-552.3	1,016.8	968.0	48.74	20.860	
8,250.0	8,039.5	7,880.0	7,826.8	27.0	25.9	81.57	-44.1	-560.7	1,029.7	980.8	48.89	21.061	
8,300.0	8,050.9	7,908.7	7,848.1	27.0	25.9	81.17	-61.5	-569.0	1,042.9	993.8	49.06	21.259	
8,350.0	8,058.1	7,937.7	7,868.6	27.0	25.9	80.83	-80.1	-577.7	1,056.3	1,007.1	49.24	21.452	
8,400.0	8,060.9	7,967.1	7,888.3	27.0	26.0	80.54	-100.0	-586.7	1,069.9	1,020.5	49.43	21.644	
8,409.5	8,061.0	7,972.8	7,891.9	27.0	26.0	80.49	-103.9	-588.5	1,072.5	1,023.0	49.47	21.680	
8,500.0	8,060.7	8,031.3	7,927.3	27.0	26.0	82.58	-146.5	-607.3	1,099.1	1,049.3	49.80	22.069	
8,600.0	8,060.4	8,108.0	7,966.1	27.0	26.1	84.83	-207.4	-633.1	1,131.7	1,081.6	50.12	22.580	
8,700.0	8,060.1	8,197.7	7,999.8	27.0	26.2	86.75	-284.3	-664.3	1,166.0	1,115.6	50.39	23.141	
8,800.0	8,059.8	8,298.7	8,021.9	27.0	26.2	87.99	-376.1	-699.7	1,200.6	1,150.0	50.64	23.707	
8,900.0	8,059.5	8,421.9	8,026.9	27.0	26.3	88.32	-491.7	-741.9	1,234.4	1,183.4	50.93	24.238	
9,000.0	8,059.3	8,591.4	8,026.8	27.0	26.5	88.40	-653.4	-792.5	1,263.7	1,212.4	51.30	24.636	

Company:	Concho Resources, Inc.	**Local Co-ordinate Reference:**	Well SRO 4 State Com #501H
Project:	Eddy County (NAD27 NME)	**TVD Reference:**	KB @ 3020.7usft (Precision 106)
Reference Site:	(SRO 4 State Com) Sec-4_T-26-S_R-28-E	**MD Reference:**	KB @ 3020.7usft (Precision 106)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	SRO 4 State Com #501H	**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 #503H - OWB - Plan #1

Offset Site Error: 0.0 usft

Survey Program: 0-MWD, 7484-MWD+IFR1+MS

Rule Assigned:

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,100.0	8,059.0	8,766.6	8,026.6	27.1	26.7	88.47	-823.4	-834.7	1,287.2	1,235.5	51.76	24.869	
9,200.0	8,058.7	8,946.4	8,026.4	27.2	26.9	88.52	-1,000.2	-867.1	1,304.7	1,252.4	52.31	24.941	
9,300.0	8,058.4	9,129.5	8,026.2	27.4	27.2	88.56	-1,182.0	-888.6	1,315.9	1,263.0	52.94	24.856	
9,400.0	8,058.1	9,314.5	8,026.0	27.7	27.6	88.58	-1,366.8	-898.5	1,320.8	1,267.1	53.64	24.624	
9,500.0	8,057.8	9,435.6	8,025.9	27.9	27.9	88.59	-1,487.8	-899.6	1,320.9	1,266.7	54.27	24.339	
9,600.0	8,057.5	9,535.6	8,025.8	28.3	28.1	88.60	-1,587.8	-900.1	1,320.9	1,266.0	54.91	24.056	
9,700.0	8,057.2	9,635.6	8,025.7	28.6	28.4	88.61	-1,687.8	-900.7	1,320.9	1,265.3	55.58	23.764	
9,800.0	8,056.9	9,735.6	8,025.6	28.9	28.7	88.62	-1,787.8	-901.2	1,320.9	1,264.6	56.29	23.466	
9,900.0	8,056.6	9,835.6	8,025.5	29.3	29.0	88.63	-1,887.8	-901.7	1,320.9	1,263.9	57.03	23.161	
10,000.0	8,056.3	9,935.6	8,025.4	29.7	29.4	88.64	-1,987.8	-902.3	1,320.9	1,263.1	57.80	22.853	
10,100.0	8,056.0	10,035.6	8,025.3	30.1	29.7	88.64	-2,087.8	-902.8	1,320.9	1,262.3	58.60	22.541	
10,200.0	8,055.7	10,135.6	8,025.2	30.5	30.1	88.65	-2,187.8	-903.4	1,320.9	1,261.4	59.43	22.226	
10,300.0	8,055.4	10,235.6	8,025.1	30.9	30.5	88.66	-2,287.8	-903.9	1,320.9	1,260.6	60.28	21.911	
10,400.0	8,055.2	10,335.6	8,025.0	31.3	30.9	88.67	-2,387.8	-904.5	1,320.8	1,259.7	61.17	21.595	
10,500.0	8,054.9	10,435.6	8,024.9	31.8	31.4	88.68	-2,487.8	-905.0	1,320.8	1,258.8	62.07	21.279	
10,600.0	8,054.6	10,535.6	8,024.8	32.3	31.8	88.69	-2,587.8	-905.5	1,320.8	1,257.8	63.00	20.964	
10,700.0	8,054.3	10,635.6	8,024.7	32.7	32.3	88.69	-2,687.8	-906.1	1,320.8	1,256.9	63.96	20.652	
10,800.0	8,054.0	10,735.6	8,024.6	33.2	32.8	88.70	-2,787.8	-906.6	1,320.8	1,255.9	64.93	20.341	
10,900.0	8,053.7	10,835.6	8,024.5	33.7	33.2	88.71	-2,887.8	-907.2	1,320.8	1,254.9	65.93	20.033	
11,000.0	8,053.4	10,935.6	8,024.4	34.2	33.7	88.72	-2,987.8	-907.7	1,320.8	1,253.8	66.95	19.729	
11,100.0	8,053.1	11,035.6	8,024.3	34.7	34.2	88.73	-3,087.8	-908.2	1,320.8	1,252.8	67.98	19.428	
11,200.0	8,052.8	11,135.6	8,024.2	35.2	34.8	88.74	-3,187.8	-908.8	1,320.8	1,251.7	69.04	19.131	
11,300.0	8,052.5	11,235.6	8,024.1	35.8	35.3	88.74	-3,287.8	-909.3	1,320.7	1,250.6	70.11	18.838	
11,400.0	8,052.2	11,335.6	8,024.0	36.3	35.8	88.75	-3,387.8	-909.9	1,320.7	1,249.5	71.20	18.550	
11,500.0	8,051.9	11,435.6	8,023.9	36.8	36.4	88.76	-3,487.8	-910.4	1,320.7	1,248.4	72.30	18.266	
11,600.0	8,051.6	11,535.6	8,023.8	37.4	36.9	88.77	-3,587.8	-911.0	1,320.7	1,247.3	73.42	17.988	
11,700.0	8,051.3	11,635.6	8,023.7	38.0	37.5	88.78	-3,687.8	-911.5	1,320.7	1,246.1	74.56	17.714	
11,800.0	8,051.1	11,735.6	8,023.6	38.5	38.0	88.79	-3,787.8	-912.0	1,320.7	1,245.0	75.71	17.445	
11,900.0	8,050.8	11,835.6	8,023.5	39.1	38.6	88.79	-3,887.8	-912.6	1,320.7	1,243.8	76.87	17.181	
12,000.0	8,050.5	11,935.6	8,023.4	39.7	39.2	88.80	-3,987.8	-913.1	1,320.7	1,242.6	78.04	16.923	
12,100.0	8,050.2	12,035.5	8,023.3	40.3	39.8	88.81	-4,087.8	-913.7	1,320.7	1,241.4	79.23	16.669	
12,200.0	8,049.9	12,135.5	8,023.2	40.9	40.4	88.82	-4,187.8	-914.2	1,320.7	1,240.2	80.43	16.421	
12,300.0	8,049.6	12,235.5	8,023.1	41.5	41.0	88.83	-4,287.8	-914.8	1,320.6	1,239.0	81.64	16.177	
12,400.0	8,049.3	12,335.5	8,023.0	42.1	41.6	88.84	-4,387.7	-915.3	1,320.6	1,237.8	82.85	15.939	
12,500.0	8,049.0	12,435.5	8,022.9	42.7	42.2	88.84	-4,487.7	-915.8	1,320.6	1,236.5	84.08	15.706	
12,600.0	8,048.7	12,535.5	8,022.8	43.3	42.8	88.85	-4,587.7	-916.4	1,320.6	1,235.3	85.32	15.478	
12,700.0	8,048.4	12,635.5	8,022.7	43.9	43.4	88.86	-4,687.7	-916.9	1,320.6	1,234.0	86.57	15.254	
12,800.0	8,048.1	12,735.5	8,022.6	44.5	44.1	88.87	-4,787.7	-917.5	1,320.6	1,232.8	87.83	15.036	
12,900.0	8,047.8	12,835.5	8,022.5	45.1	44.7	88.88	-4,887.7	-918.0	1,320.6	1,231.5	89.10	14.822	
13,000.0	8,047.5	12,935.5	8,022.4	45.8	45.3	88.89	-4,987.7	-918.6	1,320.6	1,230.2	90.37	14.613	
13,100.0	8,047.2	13,035.5	8,022.3	46.4	46.0	88.89	-5,087.7	-919.1	1,320.6	1,228.9	91.65	14.408	
13,200.0	8,047.0	13,135.5	8,022.2	47.1	46.6	88.90	-5,187.7	-919.6	1,320.5	1,227.6	92.94	14.208	
13,300.0	8,046.7	13,235.5	8,022.1	47.7	47.2	88.91	-5,287.7	-920.2	1,320.5	1,226.3	94.24	14.013	
13,400.0	8,046.4	13,335.5	8,022.0	48.3	47.9	88.92	-5,387.7	-920.7	1,320.5	1,225.0	95.54	13.822	
13,500.0	8,046.1	13,435.5	8,021.9	49.0	48.5	88.93	-5,487.7	-921.3	1,320.5	1,223.7	96.85	13.635	
13,600.0	8,045.8	13,535.5	8,021.8	49.6	49.2	88.94	-5,587.7	-921.8	1,320.5	1,222.3	98.17	13.452	
13,700.0	8,045.5	13,635.5	8,021.7	50.3	49.9	88.94	-5,687.7	-922.4	1,320.5	1,221.0	99.49	13.273	
13,800.0	8,045.2	13,735.5	8,021.6	51.0	50.5	88.95	-5,787.7	-922.9	1,320.5	1,219.7	100.82	13.098	
13,900.0	8,044.9	13,835.5	8,021.5	51.6	51.2	88.96	-5,887.7	-923.4	1,320.5	1,218.3	102.15	12.927	
14,000.0	8,044.6	13,935.5	8,021.4	52.3	51.8	88.97	-5,987.7	-924.0	1,320.5	1,217.0	103.49	12.759	
14,100.0	8,044.3	14,035.5	8,021.3	53.0	52.5	88.98	-6,087.7	-924.5	1,320.5	1,215.6	104.83	12.596	
14,200.0	8,044.0	14,135.5	8,021.2	53.6	53.2	88.99	-6,187.7	-925.1	1,320.4	1,214.3	106.18	12.435	

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

Company:	Concho Resources, Inc.	**Local Co-ordinate Reference:**	Well SRO 4 State Com #501H
Project:	Eddy County (NAD27 NME)	**TVD Reference:**	KB @ 3020.7usft (Precision 106)
Reference Site:	(SRO 4 State Com) Sec-4_T-26-S_R-28-E	**MD Reference:**	KB @ 3020.7usft (Precision 106)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	SRO 4 State Com #501H	**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 #503H - OWB - Plan #1

Offset Site Error: 0.0 usft

Survey Program: 0-MWD, 7484-MWD+IFR1+MS

Rule Assigned:

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,300.0	8,043.7	14,235.5	8,021.0	54.3	53.9	88.99	-6,287.7	-925.6	1,320.4	1,212.9	107.54	12.279	
14,400.0	8,043.4	14,335.5	8,020.9	55.0	54.5	89.00	-6,387.7	-926.2	1,320.4	1,211.5	108.90	12.125	
14,500.0	8,043.1	14,435.5	8,020.8	55.6	55.2	89.01	-6,487.7	-926.7	1,320.4	1,210.2	110.26	11.975	
14,600.0	8,042.9	14,535.5	8,020.7	56.3	55.9	89.02	-6,587.7	-927.2	1,320.4	1,208.8	111.63	11.829	
14,700.0	8,042.6	14,635.5	8,020.6	57.0	56.6	89.03	-6,687.7	-927.8	1,320.4	1,207.4	113.00	11.685	
14,800.0	8,042.3	14,735.5	8,020.5	57.7	57.3	89.04	-6,787.7	-928.3	1,320.4	1,206.0	114.38	11.544	
14,900.0	8,042.0	14,835.5	8,020.4	58.4	58.0	89.04	-6,887.7	-928.9	1,320.4	1,204.6	115.76	11.407	
15,000.0	8,041.7	14,935.5	8,020.3	59.1	58.6	89.05	-6,987.7	-929.4	1,320.4	1,203.2	117.14	11.272	
15,100.0	8,041.4	15,035.5	8,020.2	59.7	59.3	89.06	-7,087.7	-929.9	1,320.4	1,201.8	118.53	11.140	
15,200.0	8,041.1	15,135.5	8,020.1	60.4	60.0	89.07	-7,187.7	-930.5	1,320.3	1,200.4	119.92	11.011	
15,300.0	8,040.8	15,235.5	8,020.0	61.1	60.7	89.08	-7,287.7	-931.0	1,320.3	1,199.0	121.31	10.884	
15,400.0	8,040.5	15,335.5	8,019.9	61.8	61.4	89.09	-7,387.7	-931.6	1,320.3	1,197.6	122.71	10.760	
15,500.0	8,040.2	15,435.5	8,019.8	62.5	62.1	89.09	-7,487.7	-932.1	1,320.3	1,196.2	124.11	10.639	
15,600.0	8,039.9	15,535.5	8,019.7	63.2	62.8	89.10	-7,587.7	-932.7	1,320.3	1,194.8	125.51	10.520	
15,700.0	8,039.6	15,635.5	8,019.6	63.9	63.5	89.11	-7,687.7	-933.2	1,320.3	1,193.4	126.91	10.403	
15,800.0	8,039.3	15,735.5	8,019.5	64.6	64.2	89.12	-7,787.7	-933.7	1,320.3	1,192.0	128.32	10.289	
15,900.0	8,039.0	15,835.5	8,019.4	65.3	64.9	89.13	-7,887.7	-934.3	1,320.3	1,190.5	129.73	10.177	
16,000.0	8,038.8	15,935.5	8,019.3	66.0	65.6	89.14	-7,987.7	-934.8	1,320.3	1,189.1	131.15	10.067	
16,100.0	8,038.5	16,035.5	8,019.2	66.7	66.3	89.14	-8,087.7	-935.4	1,320.3	1,187.7	132.57	9.959	
16,200.0	8,038.2	16,135.5	8,019.1	67.4	67.0	89.15	-8,187.7	-935.9	1,320.3	1,186.3	133.98	9.854	
16,300.0	8,037.9	16,235.5	8,019.0	68.1	67.8	89.16	-8,287.7	-936.5	1,320.2	1,184.8	135.41	9.750	
16,400.0	8,037.6	16,335.5	8,018.9	68.9	68.5	89.17	-8,387.7	-937.0	1,320.2	1,183.4	136.83	9.649	
16,500.0	8,037.3	16,435.5	8,018.8	69.6	69.2	89.18	-8,487.7	-937.5	1,320.2	1,182.0	138.26	9.549	
16,600.0	8,037.0	16,535.5	8,018.7	70.3	69.9	89.19	-8,587.7	-938.1	1,320.2	1,180.5	139.68	9.451	
16,700.0	8,036.7	16,635.5	8,018.6	71.0	70.6	89.19	-8,687.7	-938.6	1,320.2	1,179.1	141.11	9.356	
16,800.0	8,036.4	16,735.5	8,018.5	71.7	71.3	89.20	-8,787.7	-939.2	1,320.2	1,177.7	142.55	9.261	
16,900.0	8,036.1	16,835.5	8,018.4	72.4	72.0	89.21	-8,887.7	-939.7	1,320.2	1,176.2	143.98	9.169	
17,000.0	8,035.8	16,935.5	8,018.3	73.1	72.8	89.22	-8,987.7	-940.3	1,320.2	1,174.8	145.42	9.079	
17,100.0	8,035.5	17,035.5	8,018.2	73.8	73.5	89.23	-9,087.7	-940.8	1,320.2	1,173.3	146.86	8.990	
17,200.0	8,035.2	17,135.5	8,018.1	74.6	74.2	89.24	-9,187.7	-941.3	1,320.2	1,171.9	148.30	8.902	
17,300.0	8,035.0	17,235.5	8,018.0	75.3	74.9	89.24	-9,287.7	-941.9	1,320.2	1,170.4	149.74	8.816	
17,400.0	8,034.7	17,335.5	8,017.9	76.0	75.6	89.25	-9,387.7	-942.4	1,320.1	1,169.0	151.18	8.732	
17,500.0	8,034.4	17,435.5	8,017.8	76.7	76.3	89.26	-9,487.7	-943.0	1,320.1	1,167.5	152.63	8.649	
17,600.0	8,034.1	17,535.5	8,017.7	77.4	77.1	89.27	-9,587.7	-943.5	1,320.1	1,166.1	154.07	8.568	
17,700.0	8,033.8	17,635.5	8,017.6	78.2	77.8	89.28	-9,687.7	-944.1	1,320.1	1,164.6	155.52	8.488	
17,800.0	8,033.5	17,735.5	8,017.5	78.9	78.5	89.29	-9,787.7	-944.6	1,320.1	1,163.1	156.97	8.410	
17,900.0	8,033.2	17,835.5	8,017.4	79.6	79.2	89.29	-9,887.7	-945.1	1,320.1	1,161.7	158.42	8.333	
18,000.0	8,032.9	17,935.5	8,017.3	80.3	80.0	89.30	-9,987.7	-945.7	1,320.1	1,160.2	159.88	8.257	
18,100.0	8,032.6	18,035.5	8,017.2	81.1	80.7	89.31	-10,087.7	-946.2	1,320.1	1,158.8	161.33	8.183	
18,200.0	8,032.3	18,135.5	8,017.1	81.8	81.4	89.32	-10,187.7	-946.8	1,320.1	1,157.3	162.79	8.109	
18,307.8	8,032.0	18,243.3	8,017.0	82.6	82.2	89.33	-10,295.4	-947.4	1,320.1	1,155.7	164.36	8.032	
18,308.2	8,032.0	18,243.7	8,017.0	82.6	82.2	89.33	-10,295.8	-947.4	1,320.1	1,155.7	164.36	8.031	

Company:	Concho Resources, Inc.	**Local Co-ordinate Reference:**	Well SRO 4 State Com #501H
Project:	Eddy County (NAD27 NME)	**TVD Reference:**	KB @ 3020.7usft (Precision 106)
Reference Site:	(SRO 4 State Com) Sec-4_T-26-S_R-28-E	**MD Reference:**	KB @ 3020.7usft (Precision 106)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	SRO 4 State Com #501H	**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 - TEDDY GRAHAM STATE COM #1 (OFFSET) - OWB - AWB

Offset Site Error: 0.0 usft

Survey Program: 207-INC-ONLY

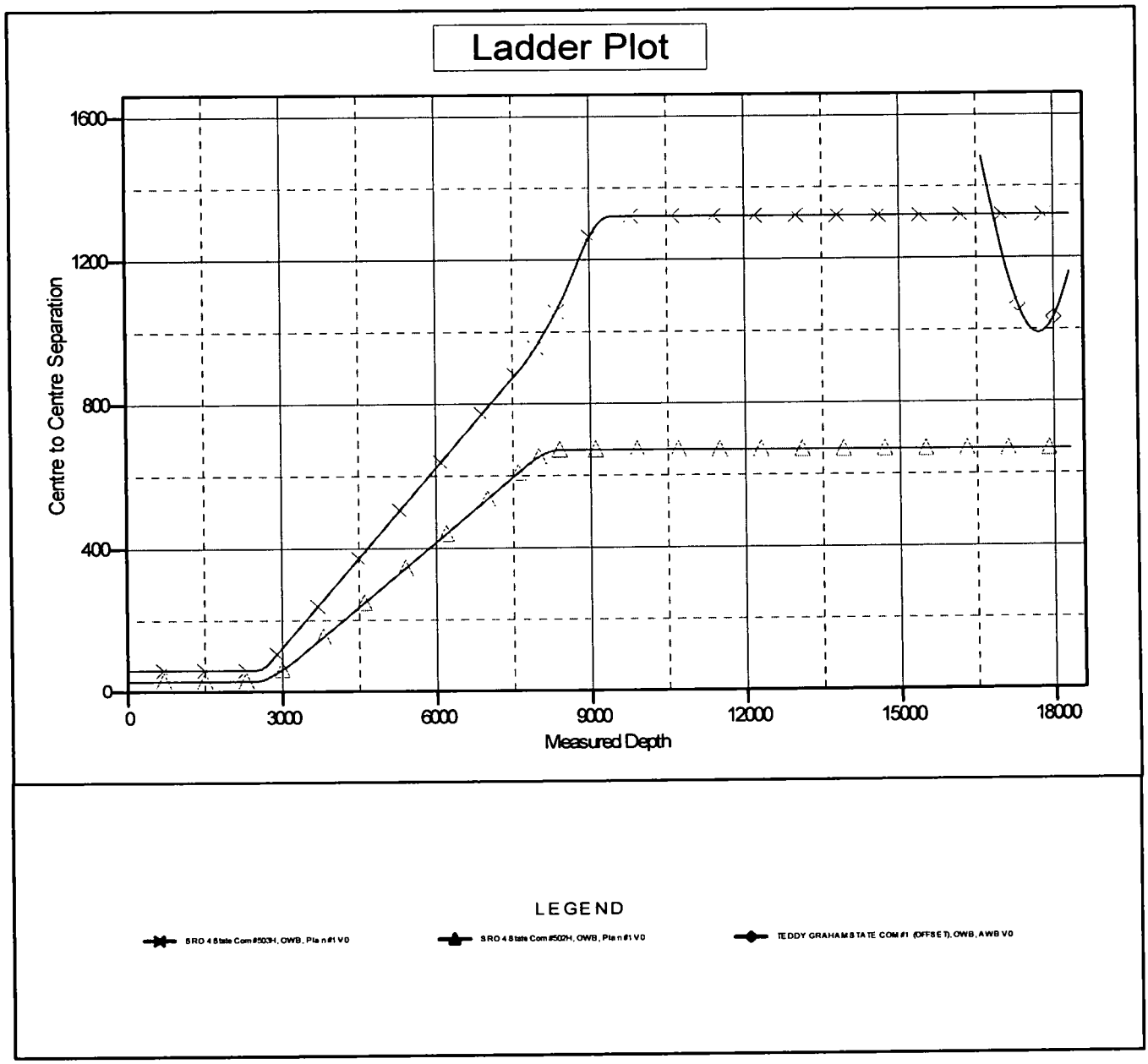
Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Rule Assigned: Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
16,600.0	8,037.0	8,091.5	8,089.3	70.3	181.5	90.19	-9,694.0	-614.3	1,483.4	1,247.6	235.86	6.289	
16,700.0	8,036.7	8,091.2	8,089.0	71.0	181.5	90.17	-9,694.0	-614.3	1,410.5	1,172.5	238.06	5.925	
16,800.0	8,036.4	8,090.9	8,088.7	71.7	181.5	90.15	-9,694.0	-614.3	1,341.2	1,100.7	240.42	5.578	
16,900.0	8,036.1	8,090.6	8,088.4	72.4	181.4	90.14	-9,694.0	-614.3	1,275.9	1,032.9	242.92	5.252	
17,000.0	8,035.8	8,090.3	8,088.1	73.1	181.4	90.12	-9,694.0	-614.3	1,215.3	969.7	245.53	4.950	
17,100.0	8,035.5	8,090.0	8,087.8	73.8	181.4	90.10	-9,694.0	-614.3	1,160.2	912.0	248.20	4.674	
17,200.0	8,035.2	8,089.7	8,087.5	74.6	181.4	90.09	-9,694.0	-614.3	1,111.3	860.5	250.83	4.431	
17,300.0	8,035.0	8,089.4	8,087.3	75.3	181.4	90.07	-9,694.0	-614.3	1,069.7	816.3	253.34	4.222	
17,400.0	8,034.7	8,089.1	8,087.0	76.0	181.4	90.05	-9,694.0	-614.3	1,036.0	780.4	255.58	4.053	
17,500.0	8,034.4	8,088.8	8,086.7	76.7	181.4	90.03	-9,694.0	-614.3	1,011.1	753.7	257.44	3.928	
17,600.0	8,034.1	8,088.5	8,086.4	77.4	181.4	90.02	-9,694.0	-614.3	995.7	736.9	258.76	3.848	
17,700.0	8,033.8	8,088.2	8,086.1	78.2	181.4	90.00	-9,694.0	-614.3	990.2	730.7	259.47	3.816	
17,704.6	8,033.8	8,088.2	8,086.1	78.2	181.4	90.00	-9,694.0	-614.3	990.2	730.7	259.49	3.816	CC, ES, SF
17,800.0	8,033.5	8,087.9	8,085.8	78.9	181.4	89.98	-9,694.0	-614.3	994.8	735.3	259.52	3.833	
17,900.0	8,033.2	8,087.6	8,085.5	79.6	181.4	89.97	-9,694.0	-614.3	1,009.3	750.4	258.92	3.898	
18,000.0	8,032.9	8,087.4	8,085.2	80.3	181.4	89.95	-9,694.0	-614.3	1,033.3	775.6	257.74	4.009	
18,100.0	8,032.6	8,087.1	8,084.9	81.1	181.4	89.93	-9,694.0	-614.3	1,066.2	810.1	256.11	4.163	
18,200.0	8,032.3	8,086.8	8,084.6	81.8	181.4	89.92	-9,694.0	-614.3	1,107.2	853.1	254.16	4.356	
18,307.8	8,032.0	8,086.5	8,084.3	82.6	181.4	89.90	-9,694.0	-614.3	1,159.5	907.6	251.83	4.604	
18,308.2	8,032.0	8,086.5	8,084.3	82.6	181.4	89.90	-9,694.0	-614.3	1,159.7	907.9	251.82	4.605	

Company:	Concho Resources, Inc.	**Local Co-ordinate Reference:**	Well SRO 4 State Com #501H
Project:	Eddy County (NAD27 NME)	**TVD Reference:**	KB @ 3020.7usft (Precision 106)
Reference Site:	(SRO 4 State Com) Sec-4_T-26-S_R-28-E	**MD Reference:**	KB @ 3020.7usft (Precision 106)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	SRO 4 State Com #501H	**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

Reference Depths are relative to KB @ 3020.7usft (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 #501H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.13°



Company:	Concho Resources, Inc.	**Local Co-ordinate Reference:**	Well SRO 4 State Com #501H
Project:	Eddy County (NAD27 NME)	**TVD Reference:**	KB @ 3020.7usft (Precision 106)
Reference Site:	(SRO 4 State Com) Sec-4_T-26-S_R-28-E	**MD Reference:**	KB @ 3020.7usft (Precision 106)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	SRO 4 State Com #501H	**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

Reference Depths are relative to KB @ 3020.7usft (Precision 106)	Coordinates are relative to: SRO 4 State Com #501H
Offset Depths are relative to Offset Datum	Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Central Meridian is 104° 20' 0.000 W	Grid Convergence at Surface is: 0.13°