CONCHO

Concho Resources, Inc.

Eddy County (NAD27 NME)
(Myox 21 State Com) Sec-21_T-25-S_R28-E
Myox 21 State Com #58H

OWB
Plan #1

Anticollision Report

15 May, 2018

INTREPID

Company:	Concho Resources, Inc.	**Local Co-ordinate Reference:**	Well Myox 21 State Com #58H
Project:	Eddy County (NAD27 NME)	**TVD Reference:**	KB @ 2991.5usft (Precision 106)
Reference Site:	(Myox 21 State Com) Sec-21_T-25-S_R28-E	**MD Reference:**	KB @ 2991.5usft (Precision 106)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Myox 21 State Com #58H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDM 5000.1 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** 05/15/18

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	20,456.9	Plan #1 (OWB)	MWD	OWSG MWD - Standard

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
(Myox 21 State Com) Sec-21_T-25-S_R28-E						
Myox 21 ST Com #4H (OFFSET) - OWB - AWB	8,048.4	8,055.1	190.8	152.2	4.943	CC, ES, SF

Offset Design: (Myox 21 State Com) Sec-21_T-25-S_R28-E - Myox 21 ST Com #4H (OFFSET) - OWB - AWB — **Offset Site Error:** 0.0 usft

Survey Program: 100-Standard Keeper 104, 7660-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	0.0	0.0	0.0	0.0	131.07	-398.1	456.8	606.0				
100.0	100.0	94.2	94.2	0.2	0.0	131.11	-398.3	456.4	605.8	605.6	0.18	3,338.252	
200.0	200.0	192.6	192.6	0.6	0.2	131.22	-398.9	455.4	605.4	604.7	0.68	892.351	
225.0	225.0	216.8	216.7	0.7	0.2	131.26	-399.2	455.1	605.4	604.6	0.80	756.810	
300.0	300.0	291.1	291.1	1.0	0.3	131.37	-400.2	454.3	605.4	604.3	1.16	520.033	
400.0	400.0	391.5	391.5	1.4	0.4	131.56	-401.7	453.1	605.5	603.9	1.65	366.089	
500.0	500.0	493.4	493.3	1.8	0.6	131.76	-403.3	451.6	605.5	603.4	2.15	281.956	
600.0	600.0	593.3	593.2	2.3	0.7	131.96	-404.7	450.1	605.3	602.7	2.64	229.178	
700.0	700.0	694.5	694.4	2.7	0.8	132.09	-405.5	449.0	605.0	601.9	3.14	192.820	
800.0	800.0	795.7	795.6	3.1	0.9	132.18	-405.9	447.9	604.5	600.8	3.64	166.024	
900.0	900.0	896.1	896.0	3.5	1.1	132.26	-406.1	446.9	603.8	599.7	4.15	145.526	
1,000.0	1,000.0	994.0	993.9	4.0	1.1	132.26	-405.7	446.6	603.4	598.7	4.66	129.372	
1,050.0	1,050.0	1,042.7	1,042.6	4.1	1.1	-8.58	-405.3	446.8	602.8	598.0	4.86	124.060	
1,100.0	1,100.0	1,092.0	1,091.8	4.2	1.1	-8.63	-405.0	447.0	601.9	596.9	5.01	120.201	
1,200.0	1,200.0	1,191.8	1,191.7	4.5	1.1	-8.73	-404.4	447.5	600.1	594.7	5.33	112.681	
1,300.0	1,300.0	1,291.9	1,291.8	4.8	1.1	-8.83	-403.8	447.9	598.3	592.6	5.67	105.557	
1,400.0	1,399.9	1,392.4	1,392.2	5.0	1.1	-8.90	-403.4	448.2	596.5	590.5	6.03	98.906	
1,500.0	1,499.9	1,493.5	1,493.4	5.4	1.1	-8.95	-403.0	448.2	594.6	588.2	6.43	92.430	
1,600.0	1,599.9	1,593.4	1,593.2	5.7	1.2	-8.99	-402.8	448.1	592.6	585.7	6.87	86.305	
1,700.0	1,699.9	1,691.8	1,691.7	6.0	1.3	-9.02	-402.7	448.0	590.7	583.4	7.30	80.880	
1,800.0	1,799.9	1,787.8	1,787.7	6.4	1.4	-9.07	-402.5	448.3	589.2	581.4	7.70	76.481	
1,875.3	1,875.1	1,856.8	1,856.7	6.6	1.4	-9.17	-402.5	449.4	588.8	580.8	7.99	73.655	
1,900.0	1,899.9	1,879.9	1,879.7	6.7	1.4	-9.21	-402.5	450.0	588.8	580.7	8.09	72.790	
2,000.0	1,999.9	1,982.4	1,982.2	7.1	1.4	-9.38	-402.7	452.5	589.0	580.5	8.49	69.375	
2,100.0	2,099.8	2,087.7	2,087.6	7.5	1.4	-9.43	-403.3	453.4	588.4	579.5	8.90	66.077	
2,200.0	2,199.8	2,186.9	2,186.8	7.9	1.5	-9.44	-403.8	453.8	587.3	578.0	9.33	62.944	

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

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Reference Site:	(Myox 21 State Com) Sec-21_T-25-S_R28-E	**MD Reference:**	KB @ 2991.5usft (Precision 106)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Myox 21 State Com #58H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDM 5000.1 Single User Db
Reference Design:	Plan #1	**Offset TVD Reference:**	Offset Datum

Offset Design: (Myox 21 State Com) Sec-21_T-25-S_R28-E - Myox 21 ST Com #4H (OFFSET) - OWB - AWB — **Offset Site Error:** 0.0 usft — **Offset Well Error:** 0.0 usft

Survey Program: 100-Standard Keeper 104, 7660-MWD+IFR1+MS

Rule Assigned:

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
2,300.0	2,299.8	2,282.4	2,282.2	8.2	1.6	-9.52	-404.3	455.1	586.9	577.1	9.77	60.085	
2,400.0	2,399.8	2,390.5	2,390.3	8.6	1.6	-9.62	-404.5	456.4	586.2	576.0	10.22	57.333	
2,500.0	2,499.8	2,491.2	2,491.0	9.0	1.7	-9.65	-404.5	456.5	584.6	573.9	10.68	54.716	
2,600.0	2,599.8	2,591.0	2,590.8	9.4	1.8	-9.68	-404.5	456.5	582.9	571.7	11.14	52.299	
2,700.0	2,699.7	2,691.3	2,691.1	9.8	1.8	-9.71	-404.6	456.6	581.3	569.7	11.62	50.044	
2,800.0	2,799.7	2,792.9	2,792.7	10.2	1.9	-9.73	-404.6	456.5	579.4	567.4	12.08	47.981	
2,900.0	2,899.7	2,893.2	2,893.0	10.6	2.0	-9.75	-404.5	456.2	577.5	564.9	12.54	46.045	
3,000.0	2,999.7	2,993.3	2,993.1	11.0	2.1	-9.76	-404.5	455.9	575.5	562.5	13.01	44.226	
3,050.0	3,049.7	3,043.5	3,043.3	11.2	2.1	-9.77	-404.4	455.8	574.4	561.2	13.25	43.353	
3,100.0	3,099.7	3,093.4	3,093.2	11.4	2.1	-9.80	-404.3	455.6	573.0	559.5	13.49	42.474	
3,197.4	3,196.9	3,190.8	3,190.6	11.8	2.2	-9.90	-404.2	455.4	567.8	553.8	13.96	40.661	
3,200.0	3,199.5	3,193.6	3,193.4	11.8	2.2	-9.90	-404.2	455.4	567.6	553.6	13.98	40.606	
3,300.0	3,299.3	3,293.4	3,293.2	12.2	2.3	-10.01	-404.0	455.1	560.5	546.0	14.47	38.741	
3,400.0	3,399.1	3,393.5	3,393.3	12.7	2.4	-10.12	-403.9	454.6	553.3	538.3	14.96	36.983	
3,500.0	3,498.8	3,493.3	3,493.0	13.1	2.5	-10.22	-403.8	454.1	546.0	530.6	15.46	35.325	
3,600.0	3,598.6	3,593.4	3,593.2	13.5	2.6	-10.32	-403.7	453.6	538.8	522.8	15.96	33.760	
3,700.0	3,698.3	3,692.9	3,692.7	13.9	2.7	-10.42	-403.6	453.0	531.5	515.0	16.46	32.285	
3,800.0	3,798.1	3,792.4	3,792.2	14.4	2.8	-10.52	-403.5	452.4	524.2	507.3	16.97	30.897	
3,900.0	3,897.9	3,892.0	3,891.8	14.8	2.9	-10.62	-403.5	451.9	517.0	499.6	17.47	29.591	
4,000.0	3,997.6	3,991.7	3,991.5	15.2	3.0	-10.73	-403.5	451.3	509.8	491.9	17.98	28.356	
4,100.0	4,097.4	4,091.0	4,090.8	15.7	3.1	-10.83	-403.5	450.8	502.7	484.2	18.49	27.190	
4,200.0	4,197.2	4,191.0	4,190.8	16.1	3.2	-10.95	-403.5	450.3	495.6	476.5	19.00	26.080	
4,300.0	4,296.9	4,290.0	4,289.8	16.5	3.3	-11.07	-403.5	449.9	488.5	468.9	19.51	25.034	
4,400.0	4,396.7	4,389.7	4,389.4	17.0	3.4	-11.17	-403.6	449.3	481.4	461.3	20.02	24.044	
4,500.0	4,496.4	4,488.5	4,488.2	17.4	3.5	-11.27	-404.0	449.0	474.6	454.1	20.50	23.145	
4,600.0	4,596.2	4,587.0	4,586.8	17.9	3.6	-11.35	-404.5	448.6	467.9	447.0	20.98	22.306	
4,700.0	4,696.0	4,687.3	4,687.1	18.3	3.7	-11.43	-405.3	448.3	461.4	440.0	21.45	21.514	
4,800.0	4,795.7	4,786.8	4,786.6	18.7	3.8	-11.51	-405.9	448.0	454.8	432.9	21.92	20.752	
4,900.0	4,895.5	4,886.4	4,886.2	19.2	3.8	-11.71	-405.9	448.3	448.3	425.9	22.37	20.041	
5,000.0	4,995.3	4,986.7	4,986.5	19.6	3.8	-11.91	-405.9	448.5	441.7	418.9	22.83	19.345	
5,100.0	5,095.0	5,086.5	5,086.3	20.1	3.8	-12.12	-405.9	448.7	435.1	411.8	23.30	18.675	
5,200.0	5,194.8	5,185.9	5,185.7	20.5	3.9	-12.32	-405.8	448.8	428.4	404.7	23.77	18.025	
5,300.0	5,294.6	5,285.1	5,284.8	20.9	3.9	-12.54	-405.9	449.1	422.0	397.7	24.23	17.413	
5,400.0	5,394.3	5,384.0	5,383.8	21.4	3.9	-12.78	-406.0	449.6	415.7	391.0	24.70	16.831	
5,500.0	5,494.1	5,483.1	5,482.9	21.8	4.0	-13.02	-406.2	450.3	409.7	384.5	25.17	16.277	
5,600.0	5,593.8	5,581.6	5,581.4	22.3	4.0	-13.24	-406.7	450.9	403.8	378.1	25.64	15.749	
5,700.0	5,693.6	5,680.3	5,680.1	22.7	4.1	-13.45	-407.5	451.8	398.3	372.2	26.11	15.252	
5,800.0	5,793.4	5,780.6	5,780.4	23.2	4.1	-13.66	-408.4	452.7	392.9	366.3	26.59	14.777	
5,900.0	5,893.1	5,883.4	5,883.2	23.6	4.2	-13.78	-409.6	452.8	387.0	359.9	27.07	14.295	
6,000.0	5,992.9	5,983.0	5,982.7	24.1	4.3	-13.86	-410.8	452.6	380.8	353.3	27.56	13.818	
6,100.0	6,092.7	6,083.1	6,082.8	24.5	4.4	-13.94	-412.0	452.3	374.6	346.6	28.05	13.357	
6,200.0	6,192.4	6,181.1	6,180.8	25.0	4.5	-14.13	-412.5	452.4	368.3	339.8	28.54	12.905	
6,300.0	6,292.2	6,276.5	6,276.2	25.4	4.5	-14.27	-413.9	453.0	363.1	334.1	29.03	12.507	
6,400.0	6,391.9	6,379.3	6,379.0	25.9	4.6	-14.43	-415.8	454.4	358.6	329.1	29.52	12.149	
6,500.0	6,491.7	6,484.3	6,484.0	26.3	4.7	-14.71	-416.2	454.8	352.5	322.5	30.01	11.747	
6,600.0	6,591.5	6,586.6	6,586.3	26.8	4.8	-14.94	-416.2	454.0	345.1	314.6	30.50	11.316	
6,700.0	6,691.2	6,690.0	6,689.7	27.2	4.9	-15.07	-416.3	452.3	337.2	306.2	30.99	10.883	
6,800.0	6,791.0	6,794.1	6,793.7	27.7	5.0	-15.17	-415.7	449.3	328.0	296.5	31.47	10.420	
6,900.0	6,890.8	6,895.9	6,895.4	28.1	5.0	-15.44	-413.7	445.9	317.4	285.4	31.97	9.929	
7,000.0	6,990.5	6,988.9	6,988.4	28.6	5.1	-15.89	-411.4	443.9	307.6	275.2	32.49	9.468	
7,100.0	7,090.3	7,079.6	7,079.1	29.0	5.1	-16.41	-410.4	444.2	300.7	267.7	33.01	9.108	
7,200.0	7,190.0	7,179.4	7,178.9	29.5	5.2	-16.95	-410.3	445.6	295.1	261.6	33.50	8.809	

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Reference Design:	Plan #1	**Offset TVD Reference:**	Offset Datum

Offset Design (Myox 21 State Com) Sec-21_T-25-S_R28-E - Myox 21 ST Com #4H (OFFSET) - OWB - AWB — Offset Site Error: 0.0 usft

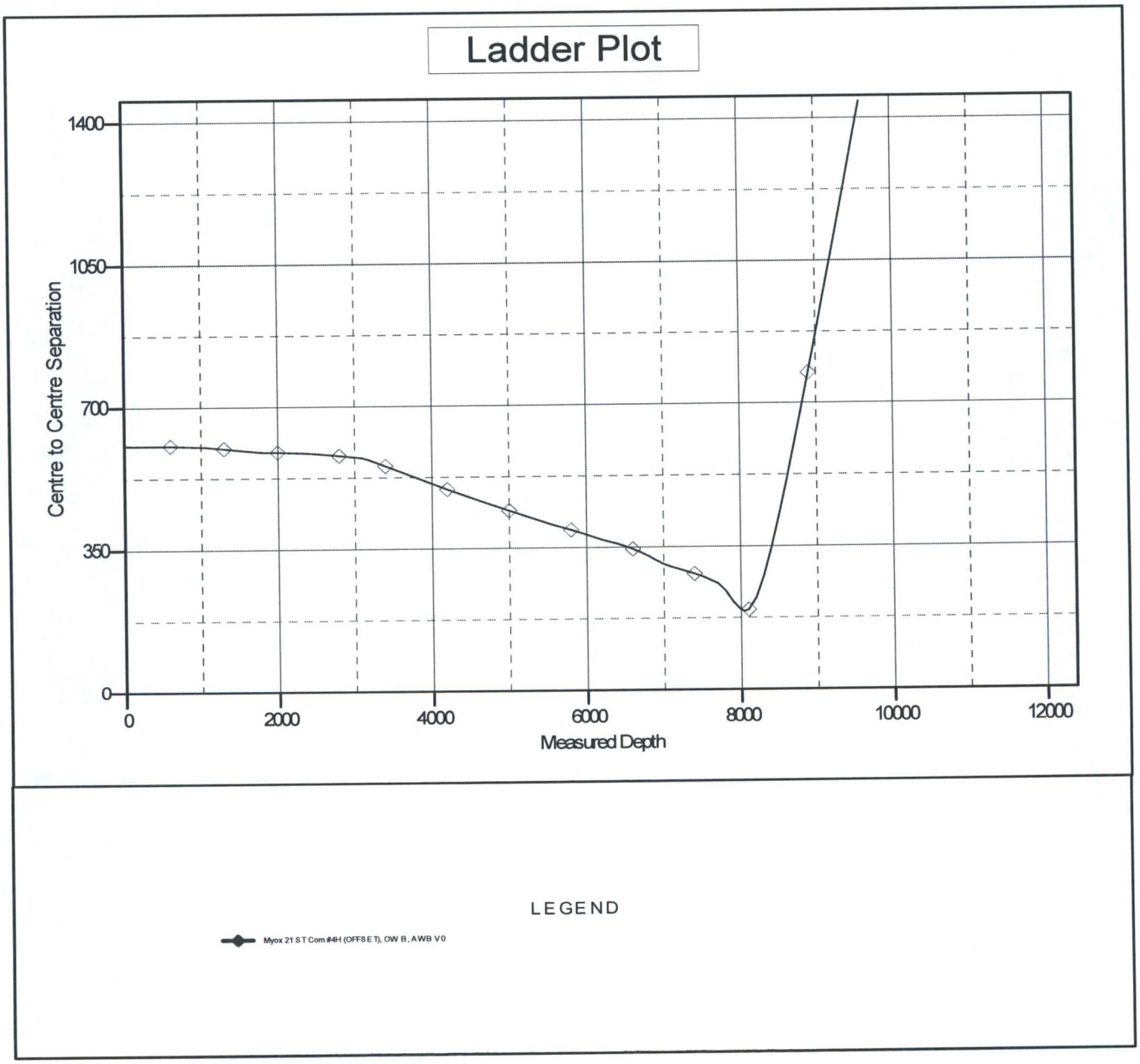
Survey Program: 100-Standard Keeper 104, 7680-MWD+IFR1+MS — Rule Assigned: — Offset Well Error: 0.0 usft

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	7,289.8	7,280.1	7,279.5	29.9	5.2	-17.43	-410.4	446.5	289.4	255.4	33.99	8.513	
7,400.0	7,389.6	7,381.4	7,380.9	30.4	5.3	-17.83	-410.8	446.8	283.3	248.8	34.48	8.215	
7,500.0	7,489.3	7,484.6	7,484.1	30.8	5.4	-18.12	-411.3	446.2	276.5	241.5	34.97	7.907	
7,600.0	7,589.1	7,586.6	7,586.0	31.3	5.5	-18.25	-411.8	444.0	268.4	233.0	35.45	7.572	
7,700.0	7,688.9	7,690.9	7,690.3	31.7	5.5	-18.24	-412.3	440.6	259.5	223.6	35.89	7.231	
7,800.0	7,788.6	7,831.3	7,828.5	32.2	5.6	-21.99	-393.2	433.5	241.8	205.6	36.19	6.680	
7,900.0	7,888.4	7,935.9	7,923.6	32.6	5.7	-32.56	-350.4	429.2	213.8	176.9	36.89	5.795	
8,000.0	7,988.1	8,020.1	7,993.9	33.1	5.8	-46.44	-304.1	428.1	193.9	155.9	37.98	5.105	
8,048.4	8,036.4	8,055.1	8,020.4	33.3	5.9	-53.68	-281.2	427.9	190.8	152.2	38.61	4.943	CC, ES, SF
8,100.0	8,087.9	8,087.7	8,043.8	33.5	6.0	-60.83	-258.5	427.8	194.7	155.5	39.21	4.965	
8,200.0	8,187.7	8,139.0	8,078.3	34.0	6.1	-72.09	-220.6	427.7	223.9	184.4	39.51	5.667	
8,300.0	8,287.4	8,186.0	8,106.8	34.4	6.2	-81.77	-183.2	427.6	276.6	237.8	38.83	7.124	
8,400.0	8,387.2	8,219.1	8,124.9	34.9	6.2	-87.90	-155.6	427.6	344.8	307.0	37.82	9.116	
8,500.0	8,487.0	8,245.8	8,138.3	35.3	6.3	-92.34	-132.4	427.8	422.4	385.4	37.00	11.416	
8,600.0	8,586.7	8,267.7	8,148.4	35.8	6.3	-95.60	-113.0	428.3	505.8	469.4	36.43	13.884	
8,700.0	8,686.5	8,281.0	8,154.1	36.2	6.4	-97.41	-101.0	428.8	593.1	557.1	36.00	16.473	
8,800.0	8,786.2	8,303.8	8,163.4	36.7	6.4	-100.26	-80.2	429.7	682.8	646.8	35.93	19.004	
8,900.0	8,886.0	8,327.0	8,171.9	37.1	6.5	-102.83	-58.7	430.8	774.4	738.4	35.98	21.522	
9,000.0	8,985.8	8,327.0	8,171.9	37.6	6.5	-102.83	-58.7	430.8	867.3	831.4	35.87	24.182	
9,100.0	9,085.5	8,346.0	8,178.4	38.1	6.5	-104.74	-40.9	431.8	961.1	925.1	36.05	26.661	
9,200.0	9,185.3	8,357.9	8,182.2	38.5	6.5	-105.86	-29.6	432.3	1,055.8	1,019.6	36.22	29.150	
9,300.0	9,285.1	8,376.0	8,187.7	39.0	6.6	-107.47	-12.3	433.0	1,151.2	1,114.7	36.49	31.551	
9,400.0	9,384.8	8,376.0	8,187.7	39.4	6.6	-107.47	-12.3	433.0	1,247.0	1,210.4	36.65	34.028	
9,500.0	9,484.6	8,376.0	8,187.7	39.9	6.6	-107.47	-12.3	433.0	1,343.4	1,306.6	36.85	36.455	
9,600.0	9,584.4	8,393.9	8,192.7	40.3	6.6	-108.94	4.8	433.6	1,440.0	1,402.8	37.20	38.704	

Company:	Concho Resources, Inc.	**Local Co-ordinate Reference:**	Well Myox 21 State Com #58H
Project:	Eddy County (NAD27 NME)	**TVD Reference:**	KB @ 2991.5usft (Precision 106)
Reference Site:	(Myox 21 State Com) Sec-21_T-25-S_R28-E	**MD Reference:**	KB @ 2991.5usft (Precision 106)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Myox 21 State Com #58H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDM 5000.1 Single User Db
Reference Design:	Plan #1	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to KB @ 2991.5usft (Precision 106)
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Myox 21 State Com #58H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.13°

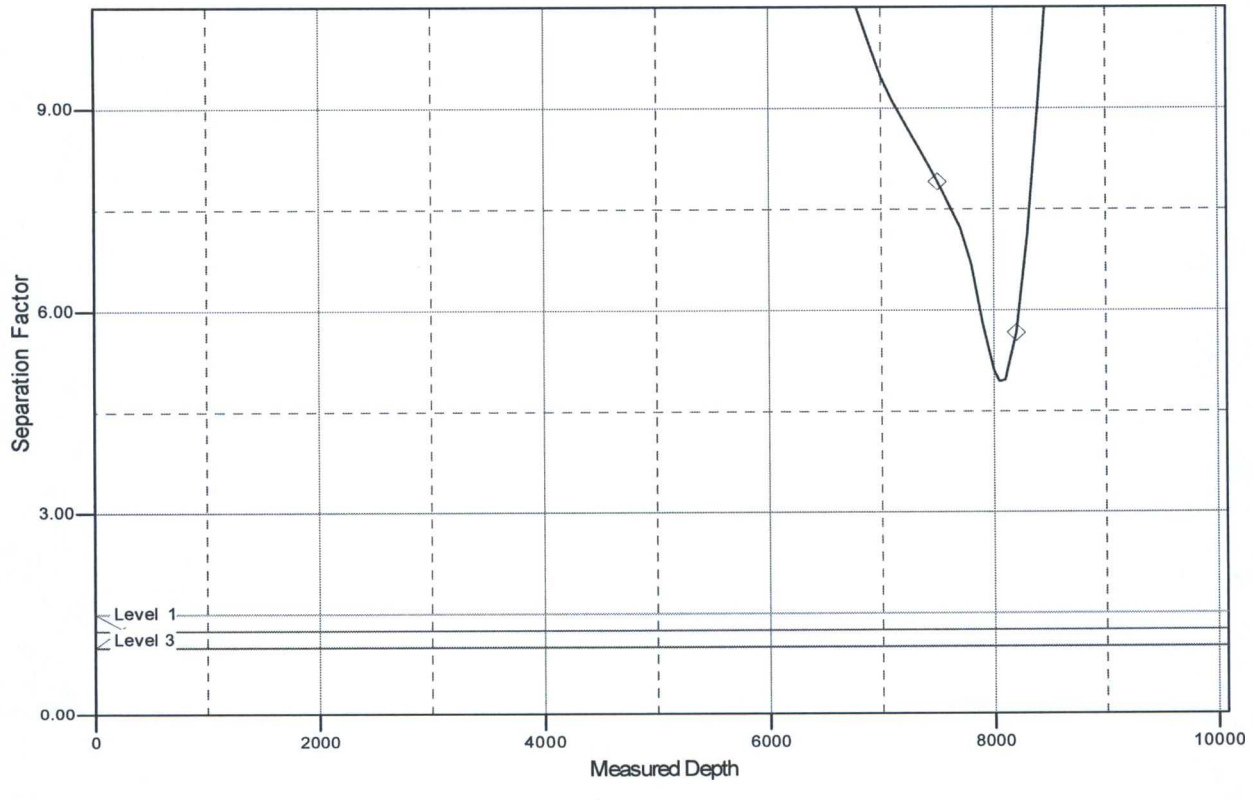


Company:	Concho Resources, Inc.	**Local Co-ordinate Reference:**	Well Myox 21 State Com #58H
Project:	Eddy County (NAD27 NME)	**TVD Reference:**	KB @ 2991.5usft (Precision 106)
Reference Site:	(Myox 21 State Com) Sec-21_T-25-S_R28-E	**MD Reference:**	KB @ 2991.5usft (Precision 106)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Myox 21 State Com #58H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDM 5000.1 Single User Db
Reference Design:	Plan #1	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to KB @ 2991.5usft (Precision 106)
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Myox 21 State Com #58H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.13°

Separation Factor Plot



LEGEND

Myox 21 ST Com #4H (OFFSET), OW B, AWB V0