



CONCHO

NM OIL CONSERVATION
ARTESIA DISTRICT

DEC 12 2018

RECEIVED

Concho Resources, Inc.

Eddy County (NAD27 NME)

(SRO 4 State Com) Sec-4_T-26-S_R-28-E

SRO 4 State Com #502H

30.015-45548

OWB

Plan: Plan #1

Standard Planning Report

11 December, 2018

INTREPID

Database: EDM 5000.15 Single User Db
Company: Concho Resources, Inc.
Project: Eddy County (NAD27 NME)
(SRO 4 State Com) Sec-4_T-26-S_R-28-E
Well: SRO 4 State Com #502H
Wellbore: OWB
Design: Plan #1

Local Co-ordinate Reference: Well SRO 4 State Com #502H
TVD Reference: KB @ 3020.9usft (Precision 106)
MD Reference: KB @ 3020.9usft (Precision 106)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project	Eddy County (NAD27 NME)		
System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Zone:	New Mexico East 3001		

Site (SRO 4 State Com) Sec-4_T-26-S_R-28-E					
Site Position:		Northing:	392,249.80 usft	Latitude:	32° 4' 41.481 N
From:	Map	Easting:	573,329.70 usft	Longitude:	104° 5' 47.692 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.13 °

Well	SRO 4 State Com #502H					
Well Position	+N/-S	0.0 usft	Northing:	392,249.80 usft	Latitude:	32° 4' 41.480 N
	+E/-W	30.0 usft	Easting:	573,359.70 usft	Longitude:	104° 5' 47.343 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	2,989.9 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	12/11/18	7.03	59.83	47,646.49009354

Design	Plan #1				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.0	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	181.43	

Plan Survey Tool Program	Date	12/11/18			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	7,356.4 Plan #1 (OWB)	MWD		
			OWSG MWD - Standard		
2	7,356.4	18,186.0 Plan #1 (OWB)	MWD+IFR1+MS		
			MWD + IFR1 + Multi-Station		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,166.5	3.33	314.84	3,166.4	3.4	-3.4	2.00	2.00	-27.13	314.84	
7,356.4	3.33	314.84	7,349.2	175.0	-176.0	0.00	0.00	0.00	0.00	
8,280.9	90.12	180.31	7,945.0	-398.5	-203.9	10.00	9.39	-14.55	-134.47	
18,186.0	90.12	180.31	7,925.0	-10,303.5	-257.4	0.00	0.00	0.00	0.00	PBHL (SRO 4 State

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Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
NUDGE - DLS 2.00 TFO 314.84									
3,100.0	2.00	314.84	3,100.0	1.2	-1.2	-1.2	2.00	2.00	0.00
3,166.5	3.33	314.84	3,166.4	3.4	-3.4	-3.3	2.00	2.00	0.00
HOLD - 4189.9 at 3166.5 MD									
3,200.0	3.33	314.84	3,199.8	4.8	-4.8	-4.7	0.00	0.00	0.00
3,300.0	3.33	314.84	3,299.7	8.9	-8.9	-8.7	0.00	0.00	0.00
3,400.0	3.33	314.84	3,399.5	13.0	-13.0	-12.6	0.00	0.00	0.00
3,500.0	3.33	314.84	3,499.3	17.1	-17.2	-16.6	0.00	0.00	0.00
3,600.0	3.33	314.84	3,599.2	21.2	-21.3	-20.6	0.00	0.00	0.00
3,700.0	3.33	314.84	3,699.0	25.3	-25.4	-24.6	0.00	0.00	0.00
3,800.0	3.33	314.84	3,798.8	29.4	-29.5	-28.6	0.00	0.00	0.00
3,900.0	3.33	314.84	3,898.7	33.4	-33.6	-32.6	0.00	0.00	0.00
4,000.0	3.33	314.84	3,998.5	37.5	-37.8	-36.6	0.00	0.00	0.00
4,100.0	3.33	314.84	4,098.3	41.6	-41.9	-40.6	0.00	0.00	0.00
4,200.0	3.33	314.84	4,198.2	45.7	-46.0	-44.6	0.00	0.00	0.00
4,300.0	3.33	314.84	4,298.0	49.8	-50.1	-48.6	0.00	0.00	0.00
4,400.0	3.33	314.84	4,397.8	53.9	-54.2	-52.6	0.00	0.00	0.00
4,500.0	3.33	314.84	4,497.7	58.0	-58.4	-56.5	0.00	0.00	0.00
4,600.0	3.33	314.84	4,597.5	62.1	-62.5	-60.5	0.00	0.00	0.00
4,700.0	3.33	314.84	4,697.3	66.2	-66.6	-64.5	0.00	0.00	0.00
4,800.0	3.33	314.84	4,797.1	70.3	-70.7	-68.5	0.00	0.00	0.00
4,900.0	3.33	314.84	4,897.0	74.4	-74.8	-72.5	0.00	0.00	0.00

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Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,000.0	3.33	314.84	4,996.8	78.5	-78.9	-76.5	0.00	0.00	0.00
5,100.0	3.33	314.84	5,096.6	82.6	-83.1	-80.5	0.00	0.00	0.00
5,200.0	3.33	314.84	5,196.5	86.7	-87.2	-84.5	0.00	0.00	0.00
5,300.0	3.33	314.84	5,296.3	90.8	-91.3	-88.5	0.00	0.00	0.00
5,400.0	3.33	314.84	5,396.1	94.9	-95.4	-92.5	0.00	0.00	0.00
5,500.0	3.33	314.84	5,496.0	99.0	-99.5	-96.5	0.00	0.00	0.00
5,600.0	3.33	314.84	5,595.8	103.1	-103.7	-100.4	0.00	0.00	0.00
5,700.0	3.33	314.84	5,695.6	107.2	-107.8	-104.4	0.00	0.00	0.00
5,800.0	3.33	314.84	5,795.5	111.3	-111.9	-108.4	0.00	0.00	0.00
5,900.0	3.33	314.84	5,895.3	115.4	-116.0	-112.4	0.00	0.00	0.00
6,000.0	3.33	314.84	5,995.1	119.5	-120.1	-116.4	0.00	0.00	0.00
6,100.0	3.33	314.84	6,095.0	123.5	-124.3	-120.4	0.00	0.00	0.00
6,200.0	3.33	314.84	6,194.8	127.6	-128.4	-124.4	0.00	0.00	0.00
6,300.0	3.33	314.84	6,294.6	131.7	-132.5	-128.4	0.00	0.00	0.00
6,400.0	3.33	314.84	6,394.4	135.8	-136.6	-132.4	0.00	0.00	0.00
6,500.0	3.33	314.84	6,494.3	139.9	-140.7	-136.4	0.00	0.00	0.00
6,600.0	3.33	314.84	6,594.1	144.0	-144.8	-140.4	0.00	0.00	0.00
6,700.0	3.33	314.84	6,693.9	148.1	-149.0	-144.4	0.00	0.00	0.00
6,800.0	3.33	314.84	6,793.8	152.2	-153.1	-148.3	0.00	0.00	0.00
6,900.0	3.33	314.84	6,893.6	156.3	-157.2	-152.3	0.00	0.00	0.00
7,000.0	3.33	314.84	6,993.4	160.4	-161.3	-156.3	0.00	0.00	0.00
7,100.0	3.33	314.84	7,093.3	164.5	-165.4	-160.3	0.00	0.00	0.00
7,200.0	3.33	314.84	7,193.1	168.6	-169.6	-164.3	0.00	0.00	0.00
7,300.0	3.33	314.84	7,292.9	172.7	-173.7	-168.3	0.00	0.00	0.00
7,356.4	3.33	314.84	7,349.2	175.0	-176.0	-170.6	0.00	0.00	0.00
KOP - DLS 10.00 TFO -134.47									
7,400.0	3.12	229.79	7,392.8	175.1	-177.8	-170.6	10.00	-0.47	-194.92
7,450.0	7.42	198.89	7,442.6	171.2	-179.9	-166.6	10.00	8.59	-61.79
7,500.0	12.26	191.32	7,491.8	162.9	-182.0	-158.3	10.00	9.68	-15.15
7,550.0	17.19	188.02	7,540.2	150.4	-184.1	-145.8	10.00	9.86	-6.60
7,600.0	22.15	186.16	7,587.2	133.7	-186.1	-129.0	10.00	9.92	-3.72
7,650.0	27.13	184.96	7,632.7	113.0	-188.1	-108.2	10.00	9.95	-2.41
7,700.0	32.11	184.10	7,676.1	88.3	-190.0	-83.6	10.00	9.96	-1.71
7,750.0	37.09	183.46	7,717.3	60.0	-191.9	-55.2	10.00	9.97	-1.29
7,800.0	42.08	182.95	7,755.8	28.2	-193.7	-23.4	10.00	9.98	-1.02
7,850.0	47.08	182.53	7,791.4	-6.8	-195.3	11.7	10.00	9.98	-0.84
7,900.0	52.07	182.17	7,823.8	-44.9	-196.9	49.8	10.00	9.99	-0.72
7,950.0	57.06	181.85	7,852.8	-85.6	-198.3	90.5	10.00	9.99	-0.63
8,000.0	62.06	181.58	7,878.1	-128.6	-199.6	133.6	10.00	9.99	-0.56
8,050.0	67.05	181.32	7,899.6	-173.7	-200.7	178.7	10.00	9.99	-0.51
8,100.0	72.05	181.08	7,917.1	-220.6	-201.7	225.5	10.00	9.99	-0.47
8,150.0	77.04	180.86	7,930.4	-268.7	-202.5	273.7	10.00	9.99	-0.45
8,200.0	82.04	180.65	7,939.4	-317.9	-203.2	322.9	10.00	9.99	-0.43
8,250.0	87.03	180.44	7,944.2	-367.6	-203.7	372.6	10.00	9.99	-0.42
8,280.9	90.12	180.31	7,945.0	-398.5	-203.9	403.5	10.00	9.99	-0.41
EOC - 9905.2 hold at 8280.9 MD									
8,300.0	90.12	180.31	7,944.9	-417.6	-204.0	422.6	0.00	0.00	0.00
8,400.0	90.12	180.31	7,944.7	-517.6	-204.5	522.6	0.00	0.00	0.00
8,500.0	90.12	180.31	7,944.5	-617.6	-205.0	622.6	0.00	0.00	0.00
8,600.0	90.12	180.31	7,944.3	-717.6	-205.6	722.5	0.00	0.00	0.00
8,700.0	90.12	180.31	7,944.1	-817.6	-206.1	822.5	0.00	0.00	0.00
8,800.0	90.12	180.31	7,943.9	-917.6	-206.7	922.5	0.00	0.00	0.00
8,900.0	90.12	180.31	7,943.7	-1,017.6	-207.2	1,022.5	0.00	0.00	0.00
9,000.0	90.12	180.31	7,943.5	-1,117.6	-207.7	1,122.5	0.00	0.00	0.00

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9,100.0	90.12	180.31	7,943.3	-1,217.6	-208.3	1,222.4	0.00	0.00	0.00
9,200.0	90.12	180.31	7,943.1	-1,317.6	-208.8	1,322.4	0.00	0.00	0.00
9,300.0	90.12	180.31	7,942.9	-1,417.6	-209.4	1,422.4	0.00	0.00	0.00
9,400.0	90.12	180.31	7,942.7	-1,517.6	-209.9	1,522.4	0.00	0.00	0.00
9,500.0	90.12	180.31	7,942.5	-1,617.6	-210.5	1,622.4	0.00	0.00	0.00
9,600.0	90.12	180.31	7,942.3	-1,717.6	-211.0	1,722.3	0.00	0.00	0.00
9,700.0	90.12	180.31	7,942.1	-1,817.6	-211.5	1,822.3	0.00	0.00	0.00
9,800.0	90.12	180.31	7,941.9	-1,917.6	-212.1	1,922.3	0.00	0.00	0.00
9,900.0	90.12	180.31	7,941.7	-2,017.6	-212.6	2,022.3	0.00	0.00	0.00
10,000.0	90.12	180.31	7,941.5	-2,117.6	-213.2	2,122.3	0.00	0.00	0.00
10,100.0	90.12	180.31	7,941.3	-2,217.6	-213.7	2,222.2	0.00	0.00	0.00
10,200.0	90.12	180.31	7,941.1	-2,317.6	-214.2	2,322.2	0.00	0.00	0.00
10,300.0	90.12	180.31	7,940.9	-2,417.6	-214.8	2,422.2	0.00	0.00	0.00
10,400.0	90.12	180.31	7,940.7	-2,517.6	-215.3	2,522.2	0.00	0.00	0.00
10,500.0	90.12	180.31	7,940.5	-2,617.6	-215.9	2,622.2	0.00	0.00	0.00
10,600.0	90.12	180.31	7,940.3	-2,717.6	-216.4	2,722.1	0.00	0.00	0.00
10,700.0	90.12	180.31	7,940.1	-2,817.6	-216.9	2,822.1	0.00	0.00	0.00
10,800.0	90.12	180.31	7,939.9	-2,917.6	-217.5	2,922.1	0.00	0.00	0.00
10,900.0	90.12	180.31	7,939.7	-3,017.6	-218.0	3,022.1	0.00	0.00	0.00
11,000.0	90.12	180.31	7,939.5	-3,117.6	-218.6	3,122.1	0.00	0.00	0.00
11,100.0	90.12	180.31	7,939.3	-3,217.6	-219.1	3,222.1	0.00	0.00	0.00
11,200.0	90.12	180.31	7,939.1	-3,317.6	-219.6	3,322.0	0.00	0.00	0.00
11,300.0	90.12	180.31	7,938.9	-3,417.6	-220.2	3,422.0	0.00	0.00	0.00
11,400.0	90.12	180.31	7,938.7	-3,517.6	-220.7	3,522.0	0.00	0.00	0.00
11,500.0	90.12	180.31	7,938.5	-3,617.6	-221.3	3,622.0	0.00	0.00	0.00
11,600.0	90.12	180.31	7,938.3	-3,717.6	-221.8	3,722.0	0.00	0.00	0.00
11,700.0	90.12	180.31	7,938.1	-3,817.6	-222.3	3,821.9	0.00	0.00	0.00
11,800.0	90.12	180.31	7,937.9	-3,917.6	-222.9	3,921.9	0.00	0.00	0.00
11,900.0	90.12	180.31	7,937.7	-4,017.6	-223.4	4,021.9	0.00	0.00	0.00
12,000.0	90.12	180.31	7,937.5	-4,117.6	-224.0	4,121.9	0.00	0.00	0.00
12,100.0	90.12	180.31	7,937.3	-4,217.6	-224.5	4,221.9	0.00	0.00	0.00
12,200.0	90.12	180.31	7,937.1	-4,317.6	-225.0	4,321.8	0.00	0.00	0.00
12,300.0	90.12	180.31	7,936.9	-4,417.6	-225.6	4,421.8	0.00	0.00	0.00
12,400.0	90.12	180.31	7,936.7	-4,517.6	-226.1	4,521.8	0.00	0.00	0.00
12,500.0	90.12	180.31	7,936.5	-4,617.6	-226.7	4,621.8	0.00	0.00	0.00
12,600.0	90.12	180.31	7,936.3	-4,717.6	-227.2	4,721.8	0.00	0.00	0.00
12,700.0	90.12	180.31	7,936.1	-4,817.6	-227.7	4,821.7	0.00	0.00	0.00
12,800.0	90.12	180.31	7,935.9	-4,917.6	-228.3	4,921.7	0.00	0.00	0.00
12,900.0	90.12	180.31	7,935.7	-5,017.6	-228.8	5,021.7	0.00	0.00	0.00
13,000.0	90.12	180.31	7,935.5	-5,117.6	-229.4	5,121.7	0.00	0.00	0.00
13,100.0	90.12	180.31	7,935.3	-5,217.5	-229.9	5,221.7	0.00	0.00	0.00
13,200.0	90.12	180.31	7,935.1	-5,317.5	-230.5	5,321.6	0.00	0.00	0.00
13,300.0	90.12	180.31	7,934.9	-5,417.5	-231.0	5,421.6	0.00	0.00	0.00
13,400.0	90.12	180.31	7,934.7	-5,517.5	-231.5	5,521.6	0.00	0.00	0.00
13,500.0	90.12	180.31	7,934.5	-5,617.5	-232.1	5,621.6	0.00	0.00	0.00
13,600.0	90.12	180.31	7,934.3	-5,717.5	-232.6	5,721.6	0.00	0.00	0.00
13,700.0	90.12	180.31	7,934.0	-5,817.5	-233.2	5,821.5	0.00	0.00	0.00
13,800.0	90.12	180.31	7,933.8	-5,917.5	-233.7	5,921.5	0.00	0.00	0.00
13,900.0	90.12	180.31	7,933.6	-6,017.5	-234.2	6,021.5	0.00	0.00	0.00
14,000.0	90.12	180.31	7,933.4	-6,117.5	-234.8	6,121.5	0.00	0.00	0.00
14,100.0	90.12	180.31	7,933.2	-6,217.5	-235.3	6,221.5	0.00	0.00	0.00
14,200.0	90.12	180.31	7,933.0	-6,317.5	-235.9	6,321.5	0.00	0.00	0.00
14,300.0	90.12	180.31	7,932.8	-6,417.5	-236.4	6,421.4	0.00	0.00	0.00
14,400.0	90.12	180.31	7,932.6	-6,517.5	-236.9	6,521.4	0.00	0.00	0.00

Database: EDM 5000.15 Single User Db
Company: Concho Resources, Inc.
Project: Eddy County (NAD27 NME)
Site: (SRO 4 State Com) Sec-4_T-26-S_R-28-E
Well: SRO 4 State Com #502H
Wellbore: OWB
Design: Plan #1

Local Co-ordinate Reference: Well SRO 4 State Com #502H
TVD Reference: KB @ 3020.9usft (Precision 106)
MD Reference: KB @ 3020.9usft (Precision 106)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
14,500.0	90.12	180.31	7,932.4	-6,617.5	-237.5	6,621.4	0.00	0.00	0.00
14,600.0	90.12	180.31	7,932.2	-6,717.5	-238.0	6,721.4	0.00	0.00	0.00
14,700.0	90.12	180.31	7,932.0	-6,817.5	-238.6	6,821.4	0.00	0.00	0.00
14,800.0	90.12	180.31	7,931.8	-6,917.5	-239.1	6,921.3	0.00	0.00	0.00
14,900.0	90.12	180.31	7,931.6	-7,017.5	-239.6	7,021.3	0.00	0.00	0.00
15,000.0	90.12	180.31	7,931.4	-7,117.5	-240.2	7,121.3	0.00	0.00	0.00
15,100.0	90.12	180.31	7,931.2	-7,217.5	-240.7	7,221.3	0.00	0.00	0.00
15,200.0	90.12	180.31	7,931.0	-7,317.5	-241.3	7,321.3	0.00	0.00	0.00
15,300.0	90.12	180.31	7,930.8	-7,417.5	-241.8	7,421.2	0.00	0.00	0.00
15,400.0	90.12	180.31	7,930.6	-7,517.5	-242.3	7,521.2	0.00	0.00	0.00
15,500.0	90.12	180.31	7,930.4	-7,617.5	-242.9	7,621.2	0.00	0.00	0.00
15,600.0	90.12	180.31	7,930.2	-7,717.5	-243.4	7,721.2	0.00	0.00	0.00
15,700.0	90.12	180.31	7,930.0	-7,817.5	-244.0	7,821.2	0.00	0.00	0.00
15,800.0	90.12	180.31	7,929.8	-7,917.5	-244.5	7,921.1	0.00	0.00	0.00
15,900.0	90.12	180.31	7,929.6	-8,017.5	-245.0	8,021.1	0.00	0.00	0.00
16,000.0	90.12	180.31	7,929.4	-8,117.5	-245.6	8,121.1	0.00	0.00	0.00
16,100.0	90.12	180.31	7,929.2	-8,217.5	-246.1	8,221.1	0.00	0.00	0.00
16,200.0	90.12	180.31	7,929.0	-8,317.5	-246.7	8,321.1	0.00	0.00	0.00
16,300.0	90.12	180.31	7,928.8	-8,417.5	-247.2	8,421.0	0.00	0.00	0.00
16,400.0	90.12	180.31	7,928.6	-8,517.5	-247.7	8,521.0	0.00	0.00	0.00
16,500.0	90.12	180.31	7,928.4	-8,617.5	-248.3	8,621.0	0.00	0.00	0.00
16,600.0	90.12	180.31	7,928.2	-8,717.5	-248.8	8,721.0	0.00	0.00	0.00
16,700.0	90.12	180.31	7,928.0	-8,817.5	-249.4	8,821.0	0.00	0.00	0.00
16,800.0	90.12	180.31	7,927.8	-8,917.5	-249.9	8,920.9	0.00	0.00	0.00
16,900.0	90.12	180.31	7,927.6	-9,017.5	-250.4	9,020.9	0.00	0.00	0.00
17,000.0	90.12	180.31	7,927.4	-9,117.5	-251.0	9,120.9	0.00	0.00	0.00
17,100.0	90.12	180.31	7,927.2	-9,217.5	-251.5	9,220.9	0.00	0.00	0.00
17,200.0	90.12	180.31	7,927.0	-9,317.5	-252.1	9,320.9	0.00	0.00	0.00
17,300.0	90.12	180.31	7,926.8	-9,417.5	-252.6	9,420.9	0.00	0.00	0.00
17,400.0	90.12	180.31	7,926.6	-9,517.5	-253.2	9,520.8	0.00	0.00	0.00
17,500.0	90.12	180.31	7,926.4	-9,617.5	-253.7	9,620.8	0.00	0.00	0.00
17,600.0	90.12	180.31	7,926.2	-9,717.5	-254.2	9,720.8	0.00	0.00	0.00
17,700.0	90.12	180.31	7,926.0	-9,817.5	-254.8	9,820.8	0.00	0.00	0.00
17,800.0	90.12	180.31	7,925.8	-9,917.5	-255.3	9,920.8	0.00	0.00	0.00
17,900.0	90.12	180.31	7,925.6	-10,017.5	-255.9	10,020.7	0.00	0.00	0.00
18,000.0	90.12	180.31	7,925.4	-10,117.5	-256.4	10,120.7	0.00	0.00	0.00
18,100.0	90.12	180.31	7,925.2	-10,217.5	-256.9	10,220.7	0.00	0.00	0.00
18,186.0	90.12	180.31	7,925.0	-10,303.5	-257.4	10,306.7	0.00	0.00	0.00

TD at 18186.0

Database: EDM 5000.15 Single User Db
Company: Concho Resources, Inc.
Project: Eddy County (NAD27 NME)
Site: (SRO 4 State Com) Sec-4_T-26-S_R-28-E
Well: SRO 4 State Com #502H
Wellbore: OWB
Design: Plan #1

Local Co-ordinate Reference: Well SRO 4 State Com #502H
TVD Reference: KB @ 3020.9usft (Precision 106)
MD Reference: KB @ 3020.9usft (Precision 106)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Design Targets
Target Name

- hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
LTP (SRO 4 State Co - plan misses target center by 36.0usft at 18100.0usft MD (7925.2 TVD, -10217.5 N, -256.9 E) - Point	0.00	0.00	7,925.0	-10,253.5	-257.1	381,996.30	573,102.60	32° 3' 0.012 N	104° 5' 50.592 W
PBHL (SRO 4 State C - plan hits target center - Rectangle (sides W60.0 H10,427.0 D20.0)	-0.12	180.31	7,925.0	-10,303.5	-257.4	381,946.30	573,102.30	32° 2' 59.517 N	104° 5' 50.597 W
FTP (SRO 4 State Co - plan misses target center by 201.0usft at 7851.2usft MD (7792.2 TVD, -7.7 N, -195.4 E) - Point	0.00	0.00	7,945.0	122.8	-201.5	392,372.60	573,158.20	32° 4' 42.700 N	104° 5' 49.682 W

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
656.0	656.0	Rustler			
827.0	827.0	TOS			
2,234.0	2,234.0	BOS (Fletcher)			
2,426.0	2,426.0	LMAR (Top Delaware)			
2,465.0	2,465.0	BLCN			
3,337.4	3,337.0	CYCN			
4,543.4	4,541.0	BYCN			
6,110.1	6,105.0	Bone Sprg (BSGL)			
6,442.6	6,437.0	U Avalon Sh			
6,658.0	6,652.0	L Avalon Sh			
6,838.3	6,832.0	B Avalon Sh			
7,042.6	7,036.0	FBSG_sand			
7,739.7	7,709.0	SBSG_sand			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
3,000.0	3,000.0	0.0	0.0	NUDGE - DLS 2.00 TFO 314.84
3,166.5	3,166.4	3.4	-3.4	HOLD - 4189.9 at 3166.5 MD
7,356.4	7,349.2	175.0	-176.0	KOP - DLS 10.00 TFO -134.47
8,280.9	7,945.0	-398.5	-203.9	EOC - 9905.2 hold at 8280.9 MD
18,186.0	7,925.0	-10,303.5	-257.4	TD at 18186.0



Concho Resources, Inc.
Project: Eddy County (NAD27 NME)
Site: (SRO 4 State Com) Sec 4, T-28-S, R-28-E
Well: SRO 4 State Com #502H
Wellbore: OWB
Design: Plan #1
Lat: 32° 4' 41.480 N
Long: 104° 5' 47.343 W
Ped. CL: 2889.9
KB: KB @ 3020.9usft (Precision 106)

