



C O N C H O

Concho Resources, Inc.

Eddy County (NAD27 NME)

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

SRO 4 State Com #502H

OWB

Design: AWB

Standard Survey Report

28 March, 2019

INTREPID

Company:	Concho Resources, Inc.	Local Co-ordinate Reference:	Well SRO 4 State Com #502H
Project:	Eddy County (NAD27 NME)	TVD Reference:	KB @ 3020.9usft (Precision 106)
Site:	(SRO 4 State Com) Sec-4 T-26-S_R-28-E	MD Reference:	KB @ 3020.9usft (Precision 106)
Well:	SRO 4 State Com #502H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

Project	Eddy County (NAD27 NME)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map 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
From:	Map	Easting:	573,329.70 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 4' 41.481 N
		Longitude:	104° 5' 47.692 W
		Grid Convergence:	0.13 °

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

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

Design	AWB		
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Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		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

Survey Program		Date	03/28/19	
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	7,234.2	SDI Gyro Svys (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4
7,318.0	18,157.0	Intrepid MWD Crv/Lat (OWB)	MWD+IFR1+MS	MWD + IFR1 + Multi-Station Correction

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	0.22	284.17	100.0	0.0	-0.2	0.0	0.22	0.22	0.00
125.0	0.29	246.94	125.0	0.0	-0.3	0.0	0.70	0.28	-148.92
150.0	0.40	219.99	150.0	-0.1	-0.4	0.1	0.77	0.44	-107.80
175.0	0.38	230.36	175.0	-0.2	-0.5	0.2	0.29	-0.08	41.48
200.0	0.27	205.94	200.0	-0.3	-0.6	0.3	0.70	-0.44	-97.68
225.0	0.28	229.76	225.0	-0.4	-0.7	0.4	0.46	0.04	95.28
250.0	0.22	242.22	250.0	-0.4	-0.8	0.5	0.32	-0.24	49.84
275.0	0.05	112.34	275.0	-0.5	-0.8	0.5	1.02	-0.68	-519.52
300.0	0.30	67.26	300.0	-0.4	-0.7	0.5	1.07	1.00	-180.32

Company:	Concho Resources, Inc.	Local Co-ordinate Reference:	Well SRO 4 State Com #502H
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Well:	SRO 4 State Com #502H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

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)
325.0	0.53	56.44	325.0	-0.4	-0.6	0.4	0.97	0.92	-43.28
350.0	0.59	59.61	350.0	-0.2	-0.4	0.2	0.27	0.24	12.68
375.0	0.69	40.56	375.0	0.0	-0.2	0.0	0.93	0.40	-76.20
400.0	0.67	44.16	400.0	0.2	0.0	-0.2	0.19	-0.08	14.40
425.0	0.66	38.60	425.0	0.4	0.2	-0.4	0.26	-0.04	-22.24
450.0	0.64	25.32	450.0	0.6	0.4	-0.6	0.61	-0.08	-53.12
475.0	0.61	8.37	475.0	0.9	0.5	-0.9	0.75	-0.12	-67.80
500.0	0.51	357.93	500.0	1.1	0.5	-1.1	0.57	-0.40	-41.76
525.0	0.60	351.88	525.0	1.4	0.4	-1.4	0.43	0.36	-24.20
550.0	0.54	342.52	550.0	1.6	0.4	-1.6	0.44	-0.24	-37.44
575.0	0.46	324.38	575.0	1.8	0.3	-1.8	0.71	-0.32	-72.56
600.0	0.51	311.92	600.0	2.0	0.2	-2.0	0.47	0.20	-49.84
625.0	0.53	296.48	625.0	2.1	0.0	-2.1	0.56	0.08	-61.76
650.0	0.61	289.50	650.0	2.2	-0.3	-2.2	0.42	0.32	-27.92
656.0	0.61	288.65	656.0	2.2	-0.3	-2.2	0.16	-0.04	-14.10
Rustler									
675.0	0.60	285.91	675.0	2.3	-0.5	-2.3	0.16	-0.04	-14.44
700.0	0.68	275.07	700.0	2.3	-0.8	-2.3	0.58	0.32	-43.36
725.0	0.79	271.20	725.0	2.3	-1.1	-2.3	0.48	0.44	-15.48
750.0	0.82	266.07	750.0	2.3	-1.5	-2.3	0.31	0.12	-20.52
775.0	0.91	266.52	775.0	2.3	-1.8	-2.3	0.36	0.36	1.80
800.0	1.00	269.64	800.0	2.3	-2.2	-2.2	0.42	0.36	12.48
825.0	1.10	265.29	825.0	2.3	-2.7	-2.2	0.51	0.40	-17.40
827.0	1.10	265.29	827.0	2.3	-2.7	-2.2	0.00	0.00	0.00
TOS									
850.0	1.14	263.27	850.0	2.2	-3.2	-2.1	0.24	0.17	-8.80
875.0	1.20	262.38	875.0	2.2	-3.7	-2.1	0.25	0.24	-3.56
900.0	1.22	261.62	899.9	2.1	-4.2	-2.0	0.10	0.08	-3.04
925.0	1.07	260.62	924.9	2.0	-4.7	-1.9	0.61	-0.60	-4.00
950.0	0.51	267.49	949.9	2.0	-5.1	-1.8	2.27	-2.24	27.48
975.0	0.39	63.37	974.9	2.0	-5.1	-1.9	3.52	-0.48	623.52
1,000.0	0.95	68.15	999.9	2.1	-4.8	-2.0	2.25	2.24	19.12
1,025.0	1.04	73.50	1,024.9	2.2	-4.4	-2.1	0.52	0.36	21.40
1,050.0	1.14	80.38	1,049.9	2.4	-3.9	-2.3	0.66	0.40	27.52
1,075.0	1.13	74.79	1,074.9	2.5	-3.5	-2.4	0.44	-0.04	-22.36
1,100.0	1.07	77.33	1,099.9	2.6	-3.0	-2.5	0.31	-0.24	10.16
1,125.0	0.87	78.49	1,124.9	2.7	-2.6	-2.6	0.80	-0.80	4.64
1,150.0	0.84	79.75	1,149.9	2.7	-2.2	-2.7	0.14	-0.12	5.04
1,175.0	0.81	79.45	1,174.9	2.8	-1.9	-2.8	0.12	-0.12	-1.20
1,200.0	0.83	78.01	1,199.9	2.9	-1.5	-2.8	0.11	0.08	-5.76
1,225.0	0.83	79.90	1,224.9	2.9	-1.2	-2.9	0.11	0.00	7.56
1,250.0	0.90	77.54	1,249.9	3.0	-0.8	-3.0	0.31	0.28	-9.44
1,275.0	0.88	82.96	1,274.9	3.1	-0.4	-3.1	0.35	-0.08	21.68

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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)
1,300.0	0.86	80.37	1,299.9	3.1	0.0	-3.1	0.18	-0.08	-10.36
1,325.0	0.89	81.76	1,324.9	3.2	0.3	-3.2	0.15	0.12	5.56
1,350.0	0.91	81.99	1,349.9	3.2	0.7	-3.3	0.08	0.08	0.92
1,375.0	0.93	81.78	1,374.9	3.3	1.1	-3.3	0.08	0.08	-0.84
1,400.0	0.94	78.60	1,399.9	3.4	1.5	-3.4	0.21	0.04	-12.72
1,425.0	0.97	77.73	1,424.9	3.5	1.9	-3.5	0.13	0.12	-3.48
1,450.0	0.98	78.60	1,449.9	3.5	2.4	-3.6	0.07	0.04	3.48
1,475.0	1.03	78.79	1,474.9	3.6	2.8	-3.7	0.20	0.20	0.76
1,500.0	0.95	80.07	1,499.9	3.7	3.2	-3.8	0.33	-0.32	5.12
1,525.0	0.95	76.40	1,524.9	3.8	3.6	-3.9	0.24	0.00	-14.68
1,550.0	0.98	73.95	1,549.9	3.9	4.0	-4.0	0.20	0.12	-9.80
1,575.0	0.93	75.76	1,574.9	4.0	4.4	-4.1	0.23	-0.20	7.24
1,600.0	0.92	67.84	1,599.9	4.1	4.8	-4.3	0.51	-0.04	-31.68
1,625.0	0.83	66.90	1,624.9	4.3	5.2	-4.4	0.36	-0.36	-3.76
1,650.0	0.76	73.48	1,649.8	4.4	5.5	-4.5	0.46	-0.28	26.32
1,675.0	0.76	66.84	1,674.8	4.5	5.8	-4.7	0.35	0.00	-26.56
1,700.0	0.73	67.53	1,699.8	4.6	6.1	-4.8	0.13	-0.12	2.76
1,725.0	0.81	73.44	1,724.8	4.8	6.4	-4.9	0.45	0.32	23.64
1,750.0	0.83	67.25	1,749.8	4.9	6.8	-5.0	0.36	0.08	-24.76
1,775.0	1.00	73.00	1,774.8	5.0	7.1	-5.2	0.77	0.68	23.00
1,800.0	1.26	75.58	1,799.8	5.1	7.6	-5.3	1.06	1.04	10.32
1,825.0	1.35	77.59	1,824.8	5.3	8.2	-5.5	0.40	0.36	8.04
1,850.0	1.40	78.91	1,849.8	5.4	8.7	-5.6	0.24	0.20	5.28
1,875.0	1.42	78.81	1,874.8	5.5	9.3	-5.7	0.08	0.08	-0.40
1,900.0	1.39	79.96	1,899.8	5.6	10.0	-5.9	0.16	-0.12	4.60
1,925.0	1.10	86.99	1,924.8	5.7	10.5	-6.0	1.31	-1.16	28.12
1,950.0	0.70	98.05	1,949.8	5.7	10.9	-6.0	1.74	-1.60	44.24
1,975.0	0.57	115.95	1,974.8	5.6	11.1	-5.9	0.94	-0.52	71.60
2,000.0	0.64	131.70	1,999.8	5.5	11.4	-5.7	0.72	0.28	63.00
2,025.0	0.73	131.53	2,024.8	5.3	11.6	-5.6	0.36	0.36	-0.68
2,050.0	1.11	123.85	2,049.8	5.0	11.9	-5.3	1.59	1.52	-30.72
2,075.0	1.45	111.07	2,074.8	4.8	12.4	-5.1	1.77	1.36	-51.12
2,100.0	1.97	112.39	2,099.8	4.5	13.1	-4.8	2.09	2.08	5.28
2,125.0	2.23	107.69	2,124.8	4.2	14.0	-4.5	1.25	1.04	-18.80
2,150.0	2.18	103.93	2,149.7	3.9	14.9	-4.3	0.61	-0.20	-15.04
2,175.0	2.12	99.16	2,174.7	3.7	15.8	-4.1	0.75	-0.24	-19.08
2,200.0	2.10	94.29	2,199.7	3.6	16.7	-4.0	0.72	-0.08	-19.48
2,225.0	2.09	92.37	2,224.7	3.6	17.6	-4.0	0.28	-0.04	-7.68
2,234.3	2.04	90.52	2,234.0	3.6	18.0	-4.0	0.87	-0.50	-19.80
BOS (Fletcher)									
2,250.0	1.97	87.23	2,249.7	3.6	18.5	-4.0	0.87	-0.47	-21.01
2,275.0	1.46	81.78	2,274.7	3.6	19.2	-4.1	2.14	-2.04	-21.80
2,300.0	0.90	67.12	2,299.7	3.8	19.7	-4.3	2.53	-2.24	-58.64
2,325.0	0.59	55.19	2,324.6	3.9	20.0	-4.4	1.38	-1.24	-47.72

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Well:	SRO 4 State Com #502H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
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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)	
2,350.0	0.46	28.11	2,349.6	4.1	20.2	-4.6	1.11	-0.52	-108.32	
2,375.0	0.45	27.30	2,374.6	4.3	20.3	-4.8	0.05	-0.04	-3.24	
2,400.0	0.45	30.90	2,399.6	4.4	20.4	-4.9	0.11	0.00	14.40	
2,425.0	0.50	29.39	2,424.6	4.6	20.5	-5.1	0.21	0.20	-6.04	
2,426.4	0.50	29.39	2,426.0	4.6	20.5	-5.1	0.00	0.00	0.00	
LMAR (Top Delaware)										
2,450.0	0.48	29.56	2,449.6	4.8	20.6	-5.3	0.08	-0.08	0.72	
2,465.4	0.48	25.25	2,465.0	4.9	20.6	-5.4	0.23	-0.01	-28.04	
BLCN										
2,475.0	0.48	22.55	2,474.6	5.0	20.7	-5.5	0.23	0.01	-28.04	
2,500.0	0.50	20.07	2,499.6	5.2	20.8	-5.7	0.12	0.08	-9.92	
2,525.0	0.54	24.35	2,524.6	5.4	20.8	-5.9	0.22	0.16	17.12	
2,550.0	0.50	25.18	2,549.6	5.6	20.9	-6.1	0.16	-0.16	3.32	
2,575.0	0.54	20.99	2,574.6	5.8	21.0	-6.3	0.22	0.16	-16.76	
2,600.0	0.48	29.54	2,599.6	6.0	21.1	-6.5	0.39	-0.24	34.20	
2,625.0	0.49	24.64	2,624.6	6.2	21.2	-6.7	0.17	0.04	-19.60	
2,650.0	0.58	21.40	2,649.6	6.4	21.3	-6.9	0.38	0.36	-12.96	
2,675.0	0.46	359.70	2,674.6	6.6	21.3	-7.2	0.91	-0.48	-86.80	
2,700.0	1.21	297.88	2,699.6	6.8	21.1	-7.4	4.29	3.00	-247.28	
2,725.0	1.90	285.40	2,724.6	7.1	20.5	-7.6	3.06	2.76	-49.92	
2,750.0	2.10	282.66	2,749.6	7.3	19.6	-7.8	0.89	0.80	-10.96	
2,775.0	2.23	283.82	2,774.6	7.5	18.7	-8.0	0.55	0.52	4.64	
2,800.0	2.24	284.36	2,799.6	7.7	17.8	-8.2	0.09	0.04	2.16	
2,825.0	2.25	281.57	2,824.6	8.0	16.8	-8.4	0.44	0.04	-11.16	
2,850.0	2.33	280.41	2,849.5	8.2	15.8	-8.5	0.37	0.32	-4.64	
2,875.0	2.48	283.23	2,874.5	8.4	14.8	-8.7	0.76	0.60	11.28	
2,900.0	2.36	276.61	2,899.5	8.6	13.8	-8.9	1.22	-0.48	-26.48	
2,925.0	2.40	280.98	2,924.5	8.7	12.7	-9.0	0.74	0.16	17.48	
2,950.0	2.43	282.85	2,949.4	8.9	11.7	-9.2	0.34	0.12	7.48	
2,975.0	2.30	273.74	2,974.4	9.1	10.7	-9.3	1.59	-0.52	-36.44	
3,000.0	2.42	280.33	2,999.4	9.2	9.7	-9.4	1.19	0.48	26.36	
3,025.0	2.50	279.98	3,024.4	9.4	8.6	-9.6	0.33	0.32	-1.40	
3,050.0	2.57	279.44	3,049.4	9.6	7.5	-9.8	0.30	0.28	-2.16	
3,075.0	2.60	279.37	3,074.3	9.8	6.4	-9.9	0.12	0.12	-0.28	
3,100.0	2.56	280.12	3,099.3	10.0	5.3	-10.1	0.21	-0.16	3.00	
3,125.0	2.72	281.20	3,124.3	10.2	4.2	-10.3	0.67	0.64	4.32	
3,150.0	2.74	284.66	3,149.2	10.4	3.0	-10.5	0.66	0.08	13.84	
3,175.0	3.23	291.92	3,174.2	10.9	1.8	-10.9	2.47	1.96	29.04	
3,200.0	3.30	292.12	3,199.2	11.4	0.5	-11.4	0.28	0.28	0.80	
3,225.0	3.36	291.08	3,224.1	11.9	-0.9	-11.9	0.34	0.24	-4.16	
3,250.0	3.36	293.00	3,249.1	12.5	-2.2	-12.4	0.45	0.00	7.68	
3,275.0	3.36	292.04	3,274.0	13.0	-3.6	-12.9	0.23	0.00	-3.84	
3,300.0	3.30	291.53	3,299.0	13.6	-4.9	-13.4	0.27	-0.24	-2.04	

Company:	Concho Resources, Inc.	Local Co-ordinate Reference:	Well SRO 4 State Com #502H
Project:	Eddy County (NAD27 NME)	TVD Reference:	KB @ 3020.9usft (Precision 106)
Site:	(SRO 4 State Com) Sec-4_T-26-S_R-28-E	MD Reference:	KB @ 3020.9usft (Precision 106)
Well:	SRO 4 State Com #502H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

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)
3,325.0	3.31	289.93	3,324.0	14.1	-6.3	-13.9	0.37	0.04	-6.40
3,338.1	3.31	289.11	3,337.0	14.3	-7.0	-14.2	0.36	0.00	-6.28
CYCN									
3,350.0	3.31	288.36	3,348.9	14.6	-7.7	-14.4	0.36	0.00	-6.28
3,375.0	3.35	289.17	3,373.9	15.0	-9.0	-14.8	0.25	0.16	3.24
3,400.0	3.35	288.90	3,398.8	15.5	-10.4	-15.2	0.06	0.00	-1.08
3,425.0	3.39	290.78	3,423.8	16.0	-11.8	-15.7	0.47	0.16	7.52
3,450.0	3.57	302.57	3,448.7	16.7	-13.1	-16.3	2.95	0.72	47.16
3,475.0	3.75	311.13	3,473.7	17.6	-14.4	-17.3	2.30	0.72	34.24
3,500.0	3.84	313.65	3,498.6	18.7	-15.6	-18.4	0.76	0.36	10.08
3,525.0	3.87	312.81	3,523.6	19.9	-16.9	-19.5	0.26	0.12	-3.36
3,550.0	3.94	313.58	3,548.5	21.1	-18.1	-20.6	0.35	0.28	3.08
3,575.0	4.02	313.03	3,573.5	22.3	-19.4	-21.8	0.35	0.32	-2.20
3,600.0	3.98	313.15	3,598.4	23.4	-20.6	-22.9	0.16	-0.16	0.48
3,625.0	4.10	313.09	3,623.3	24.7	-21.9	-24.1	0.48	0.48	-0.24
3,650.0	4.05	314.16	3,648.3	25.9	-23.2	-25.3	0.36	-0.20	4.28
3,675.0	4.10	313.48	3,673.2	27.1	-24.5	-26.5	0.28	0.20	-2.72
3,700.0	4.09	313.50	3,698.2	28.3	-25.8	-27.7	0.04	-0.04	0.08
3,725.0	4.06	312.32	3,723.1	29.5	-27.1	-28.9	0.36	-0.12	-4.72
3,750.0	4.04	312.36	3,748.0	30.7	-28.4	-30.0	0.08	-0.08	0.16
3,775.0	4.12	311.77	3,773.0	31.9	-29.7	-31.2	0.36	0.32	-2.36
3,800.0	4.14	311.45	3,797.9	33.1	-31.1	-32.3	0.12	0.08	-1.28
3,825.0	4.09	310.56	3,822.8	34.3	-32.4	-33.5	0.32	-0.20	-3.56
3,850.0	3.94	309.84	3,847.8	35.4	-33.7	-34.6	0.63	-0.60	-2.88
3,875.0	3.96	309.58	3,872.7	36.5	-35.1	-35.6	0.11	0.08	-1.04
3,900.0	3.93	309.21	3,897.7	37.6	-36.4	-36.7	0.16	-0.12	-1.48
3,925.0	3.97	308.60	3,922.6	38.7	-37.7	-37.7	0.23	0.16	-2.44
3,950.0	3.97	307.26	3,947.5	39.8	-39.1	-38.8	0.37	0.00	-5.36
3,975.0	3.84	307.43	3,972.5	40.8	-40.5	-39.8	0.52	-0.52	0.68
4,000.0	3.70	305.57	3,997.4	41.8	-41.8	-40.7	0.74	-0.56	-7.44
4,025.0	3.57	302.50	4,022.4	42.7	-43.1	-41.6	0.94	-0.52	-12.28
4,050.0	3.56	302.01	4,047.3	43.5	-44.4	-42.4	0.13	-0.04	-1.96
4,075.0	3.52	301.69	4,072.3	44.3	-45.7	-43.2	0.18	-0.16	-1.28
4,100.0	3.63	300.65	4,097.2	45.1	-47.1	-43.9	0.51	0.44	-4.16
4,125.0	3.51	299.51	4,122.2	45.9	-48.4	-44.7	0.56	-0.48	-4.56
4,150.0	3.43	299.92	4,147.1	46.6	-49.7	-45.4	0.34	-0.32	1.64
4,175.0	3.45	299.31	4,172.1	47.4	-51.0	-46.1	0.17	0.08	-2.44
4,200.0	3.52	299.03	4,197.0	48.1	-52.3	-46.8	0.29	0.28	-1.12
4,225.0	3.52	298.95	4,222.0	48.9	-53.7	-47.5	0.02	0.00	-0.32
4,250.0	3.52	299.46	4,246.9	49.6	-55.0	-48.2	0.13	0.00	2.04
4,275.0	3.54	300.65	4,271.9	50.4	-56.4	-49.0	0.30	0.08	4.76
4,300.0	3.61	298.30	4,296.9	51.2	-57.7	-49.7	0.65	0.28	-9.40
4,325.0	3.54	300.35	4,321.8	51.9	-59.1	-50.4	0.58	-0.28	8.20
4,350.0	3.57	299.60	4,346.8	52.7	-60.4	-51.2	0.22	0.12	-3.00

Company:	Concho Resources, Inc.	Local Co-ordinate Reference:	Well SRO 4 State Com #502H
Project:	Eddy County (NAD27 NME)	TVD Reference:	KB @ 3020.9usft (Precision 106)
Site:	(SRO 4 State Com) Sec-4_T-26-S_R-28-E	MD Reference:	KB @ 3020.9usft (Precision 106)
Well:	SRO 4 State Com #502H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

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)
4,375.0	3.58	298.97	4,371.7	53.5	-61.8	-51.9	0.16	0.04	-2.52
4,400.0	3.50	300.16	4,396.7	54.2	-63.1	-52.6	0.43	-0.32	4.76
4,425.0	3.47	299.84	4,421.6	55.0	-64.4	-53.4	0.14	-0.12	-1.28
4,450.0	3.61	303.20	4,446.6	55.8	-65.8	-54.1	1.00	0.56	13.44
4,475.0	4.03	312.10	4,471.5	56.8	-67.1	-55.1	2.90	1.68	35.60
4,500.0	3.80	313.36	4,496.5	58.0	-68.3	-56.2	0.98	-0.92	5.04
4,525.0	3.74	314.35	4,521.4	59.1	-69.5	-57.3	0.35	-0.24	3.96
4,544.6	3.77	314.76	4,541.0	60.0	-70.4	-58.2	0.21	0.16	2.08
BYCN									
4,550.0	3.78	314.87	4,546.3	60.3	-70.7	-58.5	0.21	0.16	2.06
4,575.0	3.71	315.18	4,571.3	61.4	-71.8	-59.6	0.29	-0.28	1.24
4,600.0	3.84	315.22	4,596.2	62.6	-73.0	-60.7	0.52	0.52	0.16
4,625.0	3.72	313.26	4,621.2	63.7	-74.2	-61.9	0.71	-0.48	-7.84
4,650.0	3.72	311.97	4,646.1	64.8	-75.4	-62.9	0.33	0.00	-5.16
4,675.0	3.58	313.07	4,671.1	65.9	-76.5	-64.0	0.63	-0.56	4.40
4,700.0	3.55	314.55	4,696.0	67.0	-77.7	-65.0	0.39	-0.12	5.92
4,725.0	3.68	309.54	4,721.0	68.0	-78.8	-66.0	1.37	0.52	-20.04
4,750.0	3.35	311.16	4,745.9	69.0	-80.0	-67.0	1.38	-1.32	6.48
4,775.0	3.35	308.63	4,770.9	70.0	-81.1	-67.9	0.59	0.00	-10.12
4,800.0	3.43	308.78	4,795.8	70.9	-82.3	-68.8	0.32	0.32	0.60
4,825.0	3.44	307.88	4,820.8	71.8	-83.4	-69.7	0.22	0.04	-3.60
4,850.0	3.36	306.78	4,845.8	72.7	-84.6	-70.6	0.41	-0.32	-4.40
4,875.0	3.26	303.73	4,870.7	73.5	-85.8	-71.4	0.81	-0.40	-12.20
4,900.0	3.05	304.87	4,895.7	74.3	-86.9	-72.1	0.88	-0.84	4.56
4,925.0	3.16	314.91	4,920.6	75.2	-88.0	-73.0	2.22	0.44	40.16
4,950.0	3.32	324.77	4,945.6	76.3	-88.9	-74.0	2.32	0.64	39.44
4,975.0	3.37	326.95	4,970.6	77.5	-89.7	-75.2	0.55	0.20	8.72
5,000.0	3.33	326.57	4,995.5	78.7	-90.5	-76.4	0.18	-0.16	-1.52
5,025.0	3.34	327.53	5,020.5	79.9	-91.3	-77.6	0.23	0.04	3.84
5,050.0	3.14	326.91	5,045.4	81.1	-92.0	-78.8	0.81	-0.80	-2.48
5,075.0	3.18	325.66	5,070.4	82.2	-92.8	-79.9	0.32	0.16	-5.00
5,100.0	3.14	326.02	5,095.4	83.4	-93.6	-81.0	0.18	-0.16	1.44
5,125.0	2.97	326.64	5,120.3	84.5	-94.3	-82.1	0.69	-0.68	2.48
5,150.0	2.99	326.62	5,145.3	85.6	-95.0	-83.2	0.08	0.08	-0.08
5,175.0	3.09	324.15	5,170.3	86.7	-95.8	-84.3	0.66	0.40	-9.88
5,200.0	3.36	324.55	5,195.2	87.8	-96.6	-85.4	1.08	1.08	1.60
5,225.0	3.89	321.54	5,220.2	89.1	-97.6	-86.6	2.25	2.12	-12.04
5,250.0	3.99	322.64	5,245.1	90.4	-98.6	-87.9	0.50	0.40	4.40
5,275.0	4.09	321.73	5,270.0	91.8	-99.7	-89.3	0.48	0.40	-3.64
5,300.0	4.00	321.93	5,295.0	93.2	-100.8	-90.7	0.36	-0.36	0.80
5,325.0	4.11	322.48	5,319.9	94.6	-101.9	-92.0	0.47	0.44	2.20
5,350.0	4.13	319.85	5,344.9	96.0	-103.0	-93.4	0.76	0.08	-10.52
5,375.0	3.87	321.40	5,369.8	97.4	-104.1	-94.7	1.13	-1.04	6.20

Company:	Concho Resources, Inc.	Local Co-ordinate Reference:	Well SRO 4 State Com #502H
Project:	Eddy County (NAD27 NME)	TVD Reference:	KB @ 3020.9usft (Precision 106)
Site:	(SRO 4 State Com) Sec-4_T-26-S_R-28-E	MD Reference:	KB @ 3020.9usft (Precision 106)
Well:	SRO 4 State Com #502H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

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)
5,400.0	3.69	320.51	5,394.7	98.6	-105.1	-96.0	0.76	-0.72	-3.56
5,425.0	3.72	320.52	5,419.7	99.9	-106.2	-97.2	0.12	0.12	0.04
5,450.0	3.66	319.92	5,444.6	101.1	-107.2	-98.4	0.29	-0.24	-2.40
5,475.0	3.57	319.42	5,469.6	102.3	-108.2	-99.6	0.38	-0.36	-2.00
5,500.0	3.51	319.50	5,494.5	103.5	-109.2	-100.7	0.24	-0.24	0.32
5,525.0	3.42	319.35	5,519.5	104.6	-110.2	-101.9	0.36	-0.36	-0.60
5,550.0	3.29	318.94	5,544.4	105.7	-111.2	-102.9	0.53	-0.52	-1.64
5,575.0	3.17	319.81	5,569.4	106.8	-112.1	-104.0	0.52	-0.48	3.48
5,600.0	3.05	319.22	5,594.4	107.8	-113.0	-105.0	0.50	-0.48	-2.36
5,625.0	2.99	318.62	5,619.3	108.8	-113.8	-106.0	0.27	-0.24	-2.40
5,650.0	2.84	319.36	5,644.3	109.8	-114.7	-106.9	0.62	-0.60	2.96
5,675.0	2.62	319.77	5,669.3	110.7	-115.4	-107.8	0.88	-0.88	1.64
5,700.0	2.57	318.61	5,694.2	111.6	-116.2	-108.6	0.29	-0.20	-4.64
5,725.0	2.49	318.07	5,719.2	112.4	-116.9	-109.4	0.33	-0.32	-2.16
5,750.0	2.63	317.22	5,744.2	113.2	-117.7	-110.2	0.58	0.56	-3.40
5,775.0	3.29	314.85	5,769.2	114.1	-118.6	-111.1	2.68	2.64	-9.48
5,800.0	3.48	314.52	5,794.1	115.2	-119.6	-112.2	0.76	0.76	-1.32
5,825.0	3.60	315.00	5,819.1	116.3	-120.7	-113.2	0.49	0.48	1.92
5,850.0	3.45	313.06	5,844.0	117.3	-121.8	-114.3	0.77	-0.60	-7.76
5,875.0	3.22	311.30	5,869.0	118.3	-122.9	-115.2	1.01	-0.92	-7.04
5,900.0	3.07	310.06	5,893.9	119.2	-123.9	-116.1	0.66	-0.60	-4.96
5,925.0	2.97	308.19	5,918.9	120.0	-124.9	-116.9	0.56	-0.40	-7.48
5,950.0	2.83	305.35	5,943.9	120.8	-126.0	-117.6	0.80	-0.56	-11.36
5,975.0	2.70	302.77	5,968.9	121.5	-127.0	-118.3	0.72	-0.52	-10.32
6,000.0	2.73	302.82	5,993.8	122.1	-128.0	-118.9	0.12	0.12	0.20
6,025.0	2.90	302.82	6,018.8	122.8	-129.0	-119.5	0.68	0.68	0.00
6,050.0	3.44	308.75	6,043.8	123.6	-130.1	-120.3	2.52	2.16	23.72
6,075.0	3.65	309.31	6,068.7	124.6	-131.3	-121.2	0.85	0.84	2.24
6,100.0	3.76	310.37	6,093.7	125.6	-132.5	-122.2	0.52	0.44	4.24
6,111.4	3.74	309.38	6,105.0	126.1	-133.1	-122.7	0.60	-0.21	-8.70
Bone Sprg (BSGL)									
6,125.0	3.71	308.18	6,118.6	126.6	-133.8	-123.2	0.60	-0.20	-8.81
6,150.0	3.51	306.41	6,143.6	127.6	-135.1	-124.2	0.92	-0.80	-7.08
6,175.0	3.06	301.57	6,168.5	128.4	-136.2	-124.9	2.11	-1.80	-19.36
6,200.0	2.49	298.89	6,193.5	129.0	-137.3	-125.5	2.34	-2.28	-10.72
6,225.0	2.40	293.12	6,218.5	129.5	-138.2	-126.0	1.05	-0.36	-23.08
6,250.0	2.36	294.42	6,243.4	129.9	-139.2	-126.4	0.27	-0.16	5.20
6,275.0	2.36	292.47	6,268.4	130.3	-140.1	-126.7	0.32	0.00	-7.80
6,300.0	2.27	292.25	6,293.4	130.7	-141.1	-127.1	0.36	-0.36	-0.88
6,325.0	2.39	289.12	6,318.4	131.0	-142.0	-127.4	0.70	-0.48	-12.52
6,350.0	2.32	289.58	6,343.4	131.4	-143.0	-127.8	0.29	-0.28	1.84
6,375.0	2.36	295.76	6,368.3	131.8	-143.9	-128.1	1.02	0.16	24.72
6,400.0	2.27	297.08	6,393.3	132.2	-144.8	-128.6	0.42	-0.36	5.28
6,425.0	2.57	320.37	6,418.3	132.9	-145.6	-129.2	4.08	1.20	93.16

Company:	Concho Resources, Inc.	Local Co-ordinate Reference:	Well SRO 4 State Com #502H
Project:	Eddy County (NAD27 NME)	TVD Reference:	KB @ 3020.9usft (Precision 106)
Site:	(SRO 4 State Com) Sec-4_T-26-S_R-28-E	MD Reference:	KB @ 3020.9usft (Precision 106)
Well:	SRO 4 State Com #502H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

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)
6,443.7	2.65	325.63	6,437.0	133.6	-146.1	-129.9	1.35	0.42	28.10
U Avalon Sh									
6,450.0	2.68	327.32	6,443.3	133.8	-146.3	-130.1	1.35	0.50	26.91
6,475.0	2.76	326.72	6,468.2	134.8	-147.0	-131.1	0.34	0.32	-2.40
6,500.0	2.67	324.22	6,493.2	135.8	-147.6	-132.0	0.59	-0.36	-10.00
6,525.0	2.59	322.13	6,518.2	136.7	-148.3	-132.9	0.50	-0.32	-8.36
6,550.0	2.59	321.22	6,543.2	137.6	-149.0	-133.8	0.16	0.00	-3.64
6,575.0	2.54	323.02	6,568.1	138.5	-149.7	-134.7	0.38	-0.20	7.20
6,600.0	2.51	323.09	6,593.1	139.3	-150.4	-135.5	0.12	-0.12	0.28
6,625.0	2.17	319.94	6,618.1	140.1	-151.0	-136.3	1.45	-1.36	-12.60
6,650.0	2.05	318.24	6,643.1	140.8	-151.6	-137.0	0.54	-0.48	-6.80
6,658.9	2.01	316.16	6,652.0	141.1	-151.8	-137.2	0.95	-0.47	-23.30
L Avalon Sh									
6,675.0	1.94	312.20	6,668.1	141.4	-152.2	-137.6	0.95	-0.42	-24.64
6,700.0	2.01	304.66	6,693.0	142.0	-152.9	-138.1	1.08	0.28	-30.16
6,725.0	2.13	297.09	6,718.0	142.4	-153.7	-138.6	1.19	0.48	-30.28
6,750.0	1.96	293.53	6,743.0	142.8	-154.5	-138.9	0.85	-0.68	-14.24
6,775.0	2.39	295.53	6,768.0	143.2	-155.3	-139.3	1.75	1.72	8.00
6,800.0	3.19	298.64	6,793.0	143.8	-156.4	-139.8	3.26	3.20	12.44
6,825.0	3.63	301.20	6,817.9	144.5	-157.7	-140.5	1.86	1.76	10.24
6,839.1	3.77	302.04	6,832.0	145.0	-158.5	-141.0	1.07	1.00	5.93
B Avalon Sh									
6,850.0	3.88	302.64	6,842.9	145.4	-159.1	-141.4	1.07	1.00	5.54
6,875.0	3.86	301.89	6,867.8	146.3	-160.5	-142.2	0.22	-0.08	-3.00
6,900.0	3.69	302.70	6,892.8	147.2	-161.9	-143.1	0.71	-0.68	3.24
6,925.0	3.56	304.78	6,917.7	148.0	-163.2	-143.9	0.74	-0.52	8.32
6,950.0	3.47	304.58	6,942.7	148.9	-164.5	-144.8	0.36	-0.36	-0.80
6,975.0	3.38	309.52	6,967.6	149.8	-165.7	-145.6	1.23	-0.36	19.76
7,000.0	3.30	314.42	6,992.6	150.8	-166.7	-146.6	1.19	-0.32	19.60
7,025.0	3.34	320.00	7,017.5	151.8	-167.7	-147.6	1.30	0.16	22.32
7,043.5	3.43	323.48	7,036.0	152.7	-168.4	-148.5	1.22	0.51	18.83
FBSG_sand									
7,050.0	3.47	324.66	7,042.5	153.0	-168.6	-148.8	1.22	0.55	18.11
7,075.0	3.64	324.84	7,067.4	154.3	-169.5	-150.0	0.68	0.68	0.72
7,100.0	3.80	323.07	7,092.4	155.6	-170.5	-151.3	0.79	0.64	-7.08
7,125.0	3.53	329.02	7,117.3	156.9	-171.4	-152.6	1.86	-1.08	23.80
7,150.0	3.51	329.04	7,142.3	158.2	-172.2	-153.9	0.08	-0.08	0.08
7,175.0	3.57	329.30	7,167.2	159.6	-173.0	-155.2	0.25	0.24	1.04
7,200.0	3.71	331.14	7,192.2	160.9	-173.7	-156.6	0.73	0.56	7.36
7,225.0	3.66	332.68	7,217.1	162.4	-174.5	-158.0	0.44	-0.20	6.16
7,234.2	3.64	333.25	7,226.3	162.9	-174.8	-158.5	0.45	-0.22	6.17
Tie to SDI Gyro									
7,318.0	2.15	311.26	7,310.0	166.3	-177.1	-161.8	2.19	-1.78	-26.24
7,365.0	2.96	224.89	7,357.0	166.0	-178.7	-161.5	7.54	1.72	-183.77

Company:	Concho Resources, Inc.	Local Co-ordinate Reference:	Well SRO 4 State Com #502H
Project:	Eddy County (NAD27 NME)	TVD Reference:	KB @ 3020.9usft (Precision 106)
Site:	(SRO 4 State Com) Sec-4_T-26-S_R-28-E	MD Reference:	KB @ 3020.9usft (Precision 106)
Well:	SRO 4 State Com #502H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

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)
7,412.0	8.74	191.02	7,403.7	161.6	-180.2	-157.1	13.82	12.30	-72.06
7,459.0	15.11	179.89	7,449.7	152.0	-180.9	-147.4	14.35	13.55	-23.68
7,506.0	21.25	177.57	7,494.3	137.4	-180.5	-132.8	13.15	13.06	-4.94
7,542.7	25.20	180.69	7,528.0	122.9	-180.3	-118.3	11.27	10.77	8.51
FTP @ 7542.7'MD, 100'FNL & 1013'FWL									
7,553.0	26.32	181.41	7,537.3	118.4	-180.4	-113.9	11.27	10.86	6.96
7,599.0	28.57	184.11	7,578.1	97.2	-181.4	-92.7	5.59	4.89	5.87
7,646.0	32.72	182.95	7,618.6	73.3	-182.9	-68.8	8.92	8.83	-2.47
7,692.0	35.34	181.59	7,656.7	47.6	-183.9	-43.0	5.93	5.70	-2.96
7,748.0	37.60	178.71	7,701.7	14.3	-184.0	-9.7	5.06	4.04	-5.14
7,757.2	38.28	178.92	7,709.0	8.7	-183.9	-4.1	7.54	7.42	2.23
SBSG_sand									
7,786.0	40.42	179.52	7,731.2	-9.6	-183.6	14.2	7.54	7.42	2.10
7,833.0	43.20	181.63	7,766.3	-40.9	-183.9	45.5	6.63	5.91	4.49
7,878.0	46.16	182.01	7,798.3	-72.5	-184.9	77.1	6.60	6.58	0.84
7,925.0	50.04	181.38	7,829.7	-107.5	-186.0	112.1	8.32	8.26	-1.34
7,973.0	55.39	182.05	7,858.7	-145.6	-187.1	150.3	11.20	11.15	1.40
8,020.0	57.99	179.57	7,884.5	-184.9	-187.7	189.5	7.07	5.53	-5.28
8,067.0	62.78	180.02	7,907.7	-225.7	-187.5	230.4	10.23	10.19	0.96
8,114.0	68.98	181.99	7,926.9	-268.6	-188.3	273.2	13.73	13.19	4.19
8,159.0	74.16	182.84	7,941.2	-311.3	-190.1	315.9	11.65	11.51	1.89
8,206.0	77.71	183.07	7,952.6	-356.8	-192.5	361.5	7.57	7.55	0.49
8,252.0	82.87	182.03	7,960.3	-402.1	-194.5	406.8	11.44	11.22	-2.26
8,299.0	88.13	180.68	7,964.0	-448.9	-195.6	453.6	11.55	11.19	-2.87
8,345.0	89.26	180.73	7,965.1	-494.9	-196.1	499.6	2.46	2.46	0.11
8,438.0	90.91	181.63	7,964.9	-587.8	-198.1	592.6	2.02	1.77	0.97
8,533.0	89.51	182.15	7,964.6	-682.8	-201.2	687.6	1.57	-1.47	0.55
8,625.0	89.90	183.69	7,965.1	-774.7	-205.9	779.6	1.73	0.42	1.67
8,717.0	90.77	184.66	7,964.5	-866.4	-212.6	871.5	1.42	0.95	1.05
8,812.0	89.59	182.12	7,964.2	-961.2	-218.2	966.4	2.95	-1.24	-2.67
8,905.0	88.78	179.49	7,965.6	-1,054.2	-219.5	1,059.4	2.96	-0.87	-2.83
8,998.0	89.68	178.16	7,966.8	-1,147.2	-217.6	1,152.3	1.73	0.97	-1.43
9,092.0	90.77	177.48	7,966.4	-1,241.1	-214.0	1,246.1	1.37	1.16	-0.72
9,185.0	89.45	178.69	7,966.3	-1,334.1	-210.9	1,338.9	1.93	-1.42	1.30
9,277.0	90.15	177.75	7,966.6	-1,426.0	-208.0	1,430.8	1.27	0.76	-1.02
9,370.0	89.59	179.87	7,966.8	-1,519.0	-206.1	1,523.7	2.36	-0.60	2.28
9,463.0	91.42	181.02	7,966.0	-1,612.0	-206.8	1,616.6	2.32	1.97	1.24
9,557.0	89.93	181.18	7,964.9	-1,705.9	-208.6	1,710.6	1.59	-1.59	0.17
9,651.0	91.11	182.21	7,964.0	-1,799.9	-211.4	1,804.6	1.67	1.26	1.10
9,743.0	90.38	181.67	7,962.8	-1,891.8	-214.5	1,896.6	0.99	-0.79	-0.59
9,838.0	91.19	182.00	7,961.5	-1,986.8	-217.6	1,991.6	0.92	0.85	0.35
9,931.0	89.51	180.61	7,960.9	-2,079.7	-219.7	2,084.6	2.34	-1.81	-1.49
10,024.0	90.07	180.08	7,961.3	-2,172.7	-220.3	2,177.6	0.83	0.60	-0.57
10,116.0	91.59	179.61	7,960.0	-2,264.7	-220.0	2,269.5	1.73	1.65	-0.51

Company:	Concho Resources, Inc.	Local Co-ordinate Reference:	Well SRO 4 State Com #502H
Project:	Eddy County (NAD27 NME)	TVD Reference:	KB @ 3020.9usft (Precision 106)
Site:	(SRO 4 State Com) Sec-4_T-26-S_R-28-E	MD Reference:	KB @ 3020.9usft (Precision 106)
Well:	SRO 4 State Com #502H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

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)	
10,208.0	89.42	178.49	7,959.1	-2,356.7	-218.5	2,361.4	2.65	-2.36	-1.22	
10,302.0	89.06	178.32	7,960.4	-2,450.7	-215.9	2,455.3	0.42	-0.38	-0.18	
10,395.0	90.27	177.88	7,960.9	-2,543.6	-212.8	2,548.1	1.38	1.30	-0.47	
10,489.0	90.07	178.81	7,960.7	-2,637.6	-210.1	2,642.0	1.01	-0.21	0.99	
10,581.0	90.74	178.86	7,960.0	-2,729.5	-208.2	2,733.9	0.73	0.73	0.05	
10,675.0	92.65	179.65	7,957.2	-2,823.5	-207.0	2,827.8	2.20	2.03	0.84	
10,768.0	91.19	180.18	7,954.1	-2,916.4	-206.8	2,920.7	1.67	-1.57	0.57	
10,861.0	89.26	180.48	7,953.7	-3,009.4	-207.4	3,013.7	2.10	-2.08	0.32	
10,954.0	90.83	180.12	7,953.7	-3,102.4	-207.9	3,106.6	1.73	1.69	-0.39	
11,047.0	90.15	181.33	7,952.9	-3,195.4	-209.0	3,199.6	1.49	-0.73	1.30	
11,145.0	90.24	180.99	7,952.5	-3,293.4	-211.0	3,297.6	0.36	0.09	-0.35	
11,238.0	91.27	181.51	7,951.3	-3,386.4	-213.0	3,390.6	1.24	1.11	0.56	
11,332.0	89.65	181.11	7,950.6	-3,480.3	-215.2	3,484.6	1.78	-1.72	-0.43	
11,427.0	90.74	181.15	7,950.2	-3,575.3	-217.1	3,579.6	1.15	1.15	0.04	
11,519.0	88.98	180.92	7,950.5	-3,667.3	-218.7	3,671.6	1.93	-1.91	-0.25	
11,612.0	89.15	180.98	7,952.0	-3,760.3	-220.3	3,764.6	0.19	0.18	0.06	
11,706.0	90.91	181.60	7,951.9	-3,854.2	-222.4	3,858.6	1.99	1.87	0.66	
11,799.0	92.76	182.23	7,948.9	-3,947.1	-225.5	3,951.5	2.10	1.99	0.68	
11,893.0	91.41	181.21	7,945.5	-4,041.0	-228.3	4,045.5	1.80	-1.44	-1.09	
11,987.0	89.73	178.72	7,944.6	-4,135.0	-228.3	4,139.4	3.20	-1.79	-2.65	
12,081.0	88.02	177.87	7,946.4	-4,228.9	-225.5	4,233.3	2.03	-1.82	-0.90	
12,175.0	88.25	177.46	7,949.5	-4,322.8	-221.6	4,327.0	0.50	0.24	-0.44	
12,269.0	89.73	178.62	7,951.2	-4,416.7	-218.4	4,420.8	2.00	1.57	1.23	
12,362.0	90.41	177.76	7,951.0	-4,509.7	-215.5	4,513.7	1.18	0.73	-0.92	
12,456.0	89.57	178.10	7,951.1	-4,603.6	-212.1	4,607.5	0.96	-0.89	0.36	
12,549.0	89.23	178.66	7,952.0	-4,696.6	-209.5	4,700.4	0.70	-0.37	0.60	
12,642.0	88.47	180.36	7,953.9	-4,789.6	-208.7	4,793.3	2.00	-0.82	1.83	
12,735.0	89.15	180.57	7,955.8	-4,882.5	-209.4	4,886.2	0.77	0.73	0.23	
12,829.0	90.01	180.64	7,956.5	-4,976.5	-210.4	4,980.2	0.92	0.91	0.07	
12,921.0	91.25	180.67	7,955.5	-5,068.5	-211.5	5,072.2	1.35	1.35	0.03	
13,015.0	90.32	180.75	7,954.2	-5,162.5	-212.6	5,166.2	0.99	-0.99	0.09	
13,109.0	90.88	180.36	7,953.2	-5,256.5	-213.5	5,260.2	0.73	0.60	-0.41	
13,202.0	89.57	180.84	7,952.9	-5,349.5	-214.5	5,353.2	1.50	-1.41	0.52	
13,294.0	90.15	180.37	7,953.1	-5,441.5	-215.5	5,445.2	0.81	0.63	-0.51	
13,388.0	91.02	179.89	7,952.1	-5,535.5	-215.7	5,539.1	1.06	0.93	-0.51	
13,481.0	89.76	180.72	7,951.5	-5,628.5	-216.2	5,632.1	1.62	-1.35	0.89	
13,576.0	90.35	180.12	7,951.4	-5,723.5	-216.9	5,727.1	0.89	0.62	-0.63	
13,670.0	91.33	180.13	7,950.0	-5,817.4	-217.1	5,821.1	1.04	1.04	0.01	
13,763.0	89.93	181.11	7,949.0	-5,910.4	-218.1	5,914.0	1.84	-1.51	1.05	
13,856.0	90.13	180.65	7,949.0	-6,003.4	-219.5	6,007.0	0.54	0.22	-0.49	
13,949.0	90.80	179.93	7,948.2	-6,096.4	-220.0	6,100.0	1.06	0.72	-0.77	
14,042.0	89.93	180.89	7,947.6	-6,189.4	-220.7	6,193.0	1.39	-0.94	1.03	
14,136.0	90.83	180.81	7,947.0	-6,283.4	-222.1	6,287.0	0.96	0.96	-0.09	

Company:	Concho Resources, Inc.	Local Co-ordinate Reference:	Well SRO 4 State Com #502H
Project:	Eddy County (NAD27 NME)	TVD Reference:	KB @ 3020.9usft (Precision 106)
Site:	(SRO 4 State Com) Sec-4_T-26-S_R-28-E	MD Reference:	KB @ 3020.9usft (Precision 106)
Well:	SRO 4 State Com #502H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

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)
14,228.0	89.54	180.32	7,946.7	-6,375.4	-223.0	6,379.0	1.50	-1.40	-0.53
14,322.0	90.32	179.69	7,946.8	-6,469.4	-223.0	6,472.9	1.07	0.83	-0.67
14,416.0	91.05	178.90	7,945.7	-6,563.4	-221.8	6,566.9	1.14	0.78	-0.84
14,501.0	90.71	179.50	7,944.4	-6,648.4	-220.6	6,651.8	0.81	-0.40	0.71
14,593.0	89.26	180.23	7,944.4	-6,740.3	-220.4	6,743.8	1.76	-1.58	0.79
14,686.0	89.96	179.58	7,945.0	-6,833.3	-220.3	6,836.7	1.03	0.75	-0.70
14,777.0	89.34	180.26	7,945.6	-6,924.3	-220.1	6,927.7	1.01	-0.68	0.75
14,870.0	89.15	181.92	7,946.8	-7,017.3	-221.9	7,020.7	1.80	-0.20	1.78
14,964.0	90.15	181.76	7,947.4	-7,111.3	-224.9	7,114.7	1.08	1.06	-0.17
15,057.0	91.12	181.76	7,946.4	-7,204.2	-227.8	7,207.7	1.04	1.04	0.00
15,160.0	92.26	181.53	7,943.3	-7,307.1	-230.7	7,310.6	1.13	1.11	-0.22
15,243.0	90.74	181.18	7,941.2	-7,390.1	-232.7	7,393.6	1.88	-1.83	-0.42
15,336.0	88.81	181.29	7,941.5	-7,483.0	-234.7	7,486.6	2.08	-2.08	0.12
15,432.0	88.75	181.54	7,943.6	-7,579.0	-237.1	7,582.5	0.27	-0.06	0.26
15,525.0	89.40	181.18	7,945.1	-7,672.0	-239.3	7,675.5	0.80	0.70	-0.39
15,616.0	90.21	181.29	7,945.4	-7,762.9	-241.2	7,766.5	0.90	0.89	0.12
15,709.0	90.71	181.15	7,944.6	-7,855.9	-243.2	7,859.5	0.56	0.54	-0.15
15,803.0	91.50	180.97	7,942.8	-7,949.9	-244.9	7,953.5	0.86	0.84	-0.19
15,896.0	90.21	180.85	7,941.4	-8,042.8	-246.4	8,046.5	1.39	-1.39	-0.13
15,990.0	90.83	180.84	7,940.6	-8,136.8	-247.8	8,140.5	0.66	0.66	-0.01
16,084.0	89.57	180.37	7,940.2	-8,230.8	-248.8	8,234.5	1.43	-1.34	-0.50
16,178.0	90.01	179.85	7,940.6	-8,324.8	-249.0	8,328.4	0.72	0.47	-0.55
16,273.0	89.26	181.17	7,941.2	-8,419.8	-249.8	8,423.4	1.60	-0.79	1.39
16,365.0	90.07	181.03	7,941.7	-8,511.8	-251.6	8,515.4	0.89	0.88	-0.15
16,459.0	90.60	180.50	7,941.2	-8,605.8	-252.9	8,609.4	0.80	0.56	-0.56
16,551.0	87.57	180.17	7,942.7	-8,697.8	-253.4	8,701.4	3.31	-3.29	-0.36
16,643.0	88.19	180.22	7,946.1	-8,789.7	-253.7	8,793.3	0.68	0.67	0.05
16,736.0	89.15	180.67	7,948.2	-8,882.7	-254.4	8,886.3	1.14	1.03	0.48
16,829.0	90.01	180.92	7,948.9	-8,975.7	-255.7	8,979.2	0.96	0.92	0.27
16,921.0	90.57	180.65	7,948.4	-9,067.6	-257.0	9,071.2	0.68	0.61	-0.29
17,015.0	90.99	180.74	7,947.1	-9,161.6	-258.1	9,165.2	0.46	0.45	0.10
17,107.0	90.18	180.74	7,946.2	-9,253.6	-259.3	9,257.2	0.88	-0.88	0.00
17,200.0	90.74	180.78	7,945.5	-9,346.6	-260.5	9,350.2	0.60	0.60	0.04
17,292.0	90.77	181.82	7,944.3	-9,438.6	-262.6	9,442.2	1.13	0.03	1.13
17,385.0	89.09	182.14	7,944.4	-9,531.5	-265.8	9,535.2	1.84	-1.81	0.34
17,477.0	87.89	179.90	7,946.8	-9,623.5	-267.5	9,627.1	2.76	-1.30	-2.43
17,569.0	89.34	178.55	7,949.0	-9,715.4	-266.2	9,719.0	2.15	1.58	-1.47
17,661.0	90.83	178.00	7,948.9	-9,807.4	-263.5	9,810.9	1.73	1.62	-0.60
17,755.0	91.53	177.68	7,946.9	-9,901.3	-259.9	9,904.7	0.82	0.74	-0.34
17,846.0	92.09	177.82	7,944.1	-9,992.2	-256.3	9,995.5	0.63	0.62	0.15
17,940.0	92.79	177.88	7,940.1	-10,086.0	-252.8	10,089.2	0.75	0.74	0.06
18,033.0	92.42	178.72	7,935.8	-10,178.9	-250.1	10,182.0	0.99	-0.40	0.90
18,098.0	91.86	178.82	7,933.4	-10,243.8	-248.7	10,246.8	0.88	-0.86	0.15
LAST SVY									

Company:	Concho Resources, Inc.	Local Co-ordinate Reference:	Well SRO 4 State Com #502H
Project:	Eddy County (NAD27 NME)	TVD Reference:	KB @ 3020.9usft (Precision 106)
Site:	(SRO 4 State Com) Sec-4_T-26-S_R-28-E	MD Reference:	KB @ 3020.9usft (Precision 106)
Well:	SRO 4 State Com #502H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

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)
18,107.7	91.86	178.82	7,933.1	-10,253.5	-248.5	10,256.5	0.00	0.00	0.00
LTP @ 18107.7'MD, 100'FSL & 999'FWL									
18,157.0	91.86	178.82	7,931.5	-10,302.8	-247.5	10,305.7	0.00	0.00	0.00
Projection to TD @ 18157'MD, 50.7'FSL & 999.8'FWL									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
LTP (SRO 4 State Co	0.00	0.00	7,935.0	-10,253.5	-257.1	381,996.30	573,102.60	32° 3' 0.012 N	104° 5' 50.592 W
- actual wellpath misses target center by 8.8usft at 18107.4usft MD (7933.1 TVD, -10253.3 N, -248.5 E)									
- Point									
PBHL (SRO 4 State C	-0.20	180.31	7,935.0	-10,303.5	-257.4	381,946.30	573,102.30	32° 2' 59.517 N	104° 5' 50.597 W
- actual wellpath misses target center by 10.6usft at 18157.0usft MD (7931.5 TVD, -10302.8 N, -247.5 E)									
- Rectangle (sides W60.0 H10,427.0 D20.0)									
FTP (SRO 4 State Co	0.00	0.00	7,969.0	122.8	-201.5	392,372.60	573,158.20	32° 4' 42.700 N	104° 5' 49.682 W
- actual wellpath misses target center by 259.2usft at 7862.5usft MD (7787.4 TVD, -61.4 N, -184.6 E)									
- Point									

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
656.0	656.0	Rustler				
827.0	827.0	TOS				
2,234.3	2,234.0	BOS (Fletcher)				
2,426.4	2,426.0	LMAR (Top Delaware)				
2,465.4	2,465.0	BLCN				
3,338.1	3,337.0	CYCN				
4,544.6	4,541.0	BYCN				
6,111.4	6,105.0	Bone Sprg (BSGL)				
6,443.7	6,437.0	U Avalon Sh				
6,658.9	6,652.0	L Avalon Sh				
6,839.1	6,832.0	B Avalon Sh				
7,043.5	7,036.0	FBSG_sand				
7,757.2	7,709.0	SBSG_sand				

Company:	Concho Resources, Inc.	Local Co-ordinate Reference:	Well SRO 4 State Com #502H
Project:	Eddy County (NAD27 NME)	TVD Reference:	KB @ 3020.9usft (Precision 106)
Site:	(SRO 4 State Com) Sec-4_T-26-S_R-28-E	MD Reference:	KB @ 3020.9usft (Precision 106)
Well:	SRO 4 State Com #502H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
7,234.2	7,226.3	162.9	-174.8	Tie to SDI Gyro
7,542.7	7,528.0	122.9	-180.3	FTP @ 7542.7'MD, 100'FNL & 1013'FWL
18,098.0	7,933.4	-10,243.8	-248.7	LAST SVY
18,107.7	7,933.1	-10,253.5	-248.5	LTP @ 18107.7'MD, 100'FSL & 999'FWL
18,157.0	7,931.5	-10,302.8	-247.5	Projection to TD @ 18157'MD, 50.7'FSL & 999.8'FWL

Checked By: _____ Approved By: _____ Date: _____