



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 #501H

OWB

Design: AWB

Standard Survey Report

15 April, 2019

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)
Site:	(SRO 4 State Com) Sec-4_T-26-S_R-28-E	MD Reference:	KB @ 3020.7usft (Precision 106)
Well:	SRO 4 State Com #501H	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 #501H		
Well Position	+N/-S	0.0 usft	Northing: 392,249.80 usft
	+E/-W	0.0 usft	Easting: 573,389.70 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 4' 41.480 N
		Longitude:	104° 5' 46.994 W
		Ground Level:	2,989.7 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	12/11/18	7.03	59.83	47,646.50189931

Design	AWB				
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	177.93	

Survey Program	Date	04/15/19			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.0	7,331.0	SDI Gyro (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4	
7,426.0	18,254.0	Intrepid MWD Crv/Lat (OWB)	MWD+IFR1+MS	MWD + IFR1 + Multi-Station Correction	

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	0.41	302.65	100.0	0.2	-0.3	-0.2	0.41	0.41	0.00	
125.0	0.34	286.63	125.0	0.3	-0.4	-0.3	0.50	-0.28	-64.08	
150.0	0.36	268.29	150.0	0.3	-0.6	-0.3	0.45	0.08	-73.36	
175.0	0.61	270.03	175.0	0.3	-0.8	-0.3	1.00	1.00	6.96	
200.0	0.83	251.58	200.0	0.2	-1.1	-0.3	1.27	0.88	-73.80	
225.0	0.87	245.33	225.0	0.1	-1.5	-0.1	0.40	0.16	-25.00	
250.0	0.82	240.04	250.0	-0.1	-1.8	0.0	0.37	-0.20	-21.16	
275.0	0.77	246.71	275.0	-0.2	-2.1	0.2	0.42	-0.20	26.68	
300.0	0.56	247.02	300.0	-0.4	-2.4	0.3	0.84	-0.84	1.24	

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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	0.31	234.14	325.0	-0.4	-2.5	0.3	1.07	-1.00	-51.52
350.0	0.25	228.24	350.0	-0.5	-2.6	0.4	0.27	-0.24	-23.60
375.0	0.18	254.06	375.0	-0.6	-2.7	0.5	0.47	-0.28	103.28
400.0	0.16	269.16	400.0	-0.6	-2.8	0.5	0.20	-0.08	60.40
425.0	0.25	244.26	425.0	-0.6	-2.9	0.5	0.50	0.36	-99.60
450.0	0.71	249.21	450.0	-0.7	-3.1	0.6	1.85	1.84	19.80
475.0	1.05	248.31	475.0	-0.8	-3.4	0.7	1.36	1.36	-3.60
500.0	1.23	238.75	500.0	-1.0	-3.9	0.9	1.05	0.72	-38.24
525.0	1.34	231.59	525.0	-1.4	-4.3	1.2	0.78	0.44	-28.64
550.0	1.31	231.90	550.0	-1.7	-4.8	1.5	0.12	-0.12	1.24
575.0	1.09	213.83	575.0	-2.1	-5.1	1.9	1.74	-0.88	-72.28
600.0	0.91	201.99	600.0	-2.5	-5.3	2.3	1.09	-0.72	-47.36
625.0	0.95	192.01	624.9	-2.9	-5.4	2.7	0.67	0.16	-39.92
650.0	0.89	195.29	649.9	-3.3	-5.5	3.0	0.32	-0.24	13.12
669.1	0.84	192.35	669.0	-3.5	-5.6	3.3	0.34	-0.24	-15.42
Rustler									
675.0	0.83	191.37	674.9	-3.6	-5.6	3.4	0.34	-0.23	-16.53
700.0	0.89	196.31	699.9	-4.0	-5.7	3.8	0.38	0.24	19.76
725.0	1.02	209.66	724.9	-4.4	-5.9	4.1	1.03	0.52	53.40
750.0	1.18	206.08	749.9	-4.8	-6.1	4.6	0.70	0.64	-14.32
775.0	1.31	210.42	774.9	-5.3	-6.4	5.0	0.64	0.52	17.36
800.0	1.47	206.81	799.9	-5.8	-6.7	5.6	0.73	0.64	-14.44
825.0	1.16	200.75	824.9	-6.3	-6.9	6.1	1.36	-1.24	-24.24
840.1	1.03	200.54	840.0	-6.6	-7.0	6.3	0.84	-0.84	-1.36
TOS									
850.0	0.95	200.38	849.9	-6.7	-7.0	6.5	0.84	-0.84	-1.66
875.0	0.42	157.28	874.9	-7.0	-7.1	6.8	2.82	-2.12	-172.40
900.0	0.55	73.88	899.9	-7.1	-6.9	6.8	2.61	0.52	-333.60
925.0	0.87	67.35	924.9	-7.0	-6.6	6.7	1.32	1.28	-26.12
950.0	0.82	56.31	949.9	-6.8	-6.3	6.6	0.68	-0.20	-44.16
975.0	0.78	51.35	974.9	-6.6	-6.0	6.4	0.32	-0.16	-19.84
1,000.0	0.65	48.70	999.9	-6.4	-5.8	6.2	0.54	-0.52	-10.60
1,025.0	0.50	41.84	1,024.9	-6.2	-5.6	6.0	0.66	-0.60	-27.44
1,050.0	0.48	35.45	1,049.9	-6.1	-5.5	5.9	0.23	-0.08	-25.56
1,075.0	0.41	49.48	1,074.9	-5.9	-5.4	5.7	0.52	-0.28	56.12
1,100.0	0.41	22.43	1,099.9	-5.8	-5.3	5.6	0.77	0.00	-108.20
1,125.0	0.27	42.32	1,124.9	-5.6	-5.2	5.5	0.72	-0.56	79.56
1,150.0	0.26	25.58	1,149.9	-5.5	-5.1	5.4	0.31	-0.04	-66.96
1,175.0	0.29	12.89	1,174.9	-5.4	-5.1	5.2	0.27	0.12	-50.76
1,200.0	0.09	16.61	1,199.9	-5.4	-5.1	5.2	0.80	-0.80	14.88
1,225.0	0.03	282.86	1,224.9	-5.3	-5.1	5.1	0.39	-0.24	-375.00
1,250.0	0.15	43.88	1,249.9	-5.3	-5.0	5.1	0.67	0.48	484.08
1,275.0	0.10	58.36	1,274.9	-5.3	-5.0	5.1	0.24	-0.20	57.92

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1,300.0	0.24	75.46	1,299.9	-5.2	-4.9	5.1	0.59	0.56	68.40	
1,325.0	0.48	62.90	1,324.9	-5.2	-4.8	5.0	1.00	0.96	-50.24	
1,350.0	0.65	90.63	1,349.9	-5.1	-4.6	5.0	1.27	0.68	110.92	
1,375.0	0.46	48.69	1,374.9	-5.1	-4.3	4.9	1.74	-0.76	-167.76	
1,400.0	0.40	47.57	1,399.9	-5.0	-4.2	4.8	0.24	-0.24	-4.48	
1,425.0	0.18	302.17	1,424.9	-4.9	-4.2	4.7	1.92	-0.88	-421.60	
1,450.0	0.28	347.96	1,449.9	-4.8	-4.2	4.6	0.81	0.40	183.16	
1,475.0	0.25	276.96	1,474.9	-4.7	-4.3	4.6	1.23	-0.12	-284.00	
1,500.0	0.36	233.43	1,499.9	-4.8	-4.4	4.6	0.99	0.44	-174.12	
1,525.0	0.40	243.29	1,524.9	-4.9	-4.5	4.7	0.31	0.16	39.44	
1,550.0	0.43	223.51	1,549.9	-5.0	-4.7	4.8	0.58	0.12	-79.12	
1,575.0	0.73	226.82	1,574.9	-5.1	-4.9	5.0	1.21	1.20	13.24	
1,600.0	0.73	225.81	1,599.9	-5.4	-5.1	5.2	0.05	0.00	-4.04	
1,625.0	0.48	210.43	1,624.9	-5.6	-5.3	5.4	1.18	-1.00	-61.52	
1,650.0	0.57	203.48	1,649.9	-5.8	-5.4	5.6	0.44	0.36	-27.80	
1,675.0	0.52	200.70	1,674.9	-6.0	-5.5	5.8	0.23	-0.20	-11.12	
1,700.0	0.53	192.92	1,699.9	-6.2	-5.5	6.0	0.29	0.04	-31.12	
1,725.0	0.64	157.95	1,724.9	-6.4	-5.5	6.2	1.47	0.44	-139.88	
1,750.0	0.71	117.91	1,749.9	-6.6	-5.3	6.4	1.87	0.28	-160.16	
1,775.0	0.81	122.88	1,774.9	-6.8	-5.0	6.6	0.48	0.40	19.88	
1,800.0	1.11	114.35	1,799.9	-7.0	-4.6	6.8	1.33	1.20	-34.12	
1,825.0	1.39	109.49	1,824.9	-7.2	-4.1	7.1	1.20	1.12	-19.44	
1,850.0	1.73	109.27	1,849.9	-7.4	-3.5	7.3	1.36	1.36	-0.88	
1,875.0	1.87	109.96	1,874.8	-7.7	-2.8	7.6	0.57	0.56	2.76	
1,900.0	1.92	112.95	1,899.8	-8.0	-2.0	7.9	0.44	0.20	11.96	
1,925.0	2.10	117.71	1,924.8	-8.4	-1.2	8.3	0.98	0.72	19.04	
1,950.0	1.80	119.90	1,949.8	-8.8	-0.5	8.8	1.24	-1.20	8.76	
1,975.0	2.21	125.19	1,974.8	-9.3	0.3	9.3	1.80	1.64	21.16	
2,000.0	2.40	114.80	1,999.8	-9.8	1.2	9.8	1.83	0.76	-41.56	
2,025.0	2.16	113.10	2,024.7	-10.2	2.1	10.2	1.00	-0.96	-6.80	
2,050.0	2.26	111.97	2,049.7	-10.5	2.9	10.6	0.44	0.40	-4.52	
2,075.0	2.63	109.52	2,074.7	-10.9	3.9	11.0	1.54	1.48	-9.80	
2,100.0	2.81	108.84	2,099.7	-11.3	5.1	11.5	0.73	0.72	-2.72	
2,125.0	2.74	110.80	2,124.6	-11.7	6.2	11.9	0.47	-0.28	7.84	
2,150.0	2.93	112.68	2,149.6	-12.2	7.4	12.4	0.85	0.76	7.52	
2,175.0	3.04	109.89	2,174.6	-12.6	8.6	12.9	0.73	0.44	-11.16	
2,200.0	2.77	108.61	2,199.5	-13.1	9.8	13.4	1.11	-1.08	-5.12	
2,225.0	2.37	111.58	2,224.5	-13.4	10.8	13.8	1.69	-1.60	11.88	
2,247.5	1.97	127.23	2,247.0	-13.8	11.6	14.3	3.16	-1.76	69.60	
BOS (Fletcher)										
2,250.0	1.94	129.34	2,249.5	-13.9	11.6	14.3	3.16	-1.32	83.98	
2,275.0	1.56	137.16	2,274.5	-14.4	12.2	14.8	1.79	-1.52	31.28	
2,300.0	1.48	152.43	2,299.5	-15.0	12.6	15.4	1.65	-0.32	61.08	
2,325.0	1.39	155.80	2,324.5	-15.5	12.8	16.0	0.49	-0.36	13.48	

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2,350.0	0.97	147.51	2,349.5	-16.0	13.1	16.4	1.81	-1.68	-33.16	
2,375.0	0.76	158.54	2,374.5	-16.3	13.2	16.8	1.07	-0.84	44.12	
2,400.0	0.46	167.94	2,399.5	-16.6	13.3	17.0	1.26	-1.20	37.60	
2,425.0	0.37	153.20	2,424.5	-16.7	13.4	17.2	0.56	-0.36	-58.96	
2,439.5	0.37	135.54	2,439.0	-16.8	13.4	17.3	0.78	0.00	-121.50	
LMAR (Top Delaware)										
2,450.0	0.39	123.58	2,449.5	-16.8	13.5	17.3	0.78	0.20	-114.28	
2,475.0	0.33	96.92	2,474.5	-16.9	13.6	17.4	0.70	-0.24	-106.64	
2,478.5	0.29	102.99	2,478.0	-16.9	13.7	17.4	1.46	-1.13	171.90	
BLCN										
2,500.0	0.22	177.63	2,499.5	-17.0	13.7	17.4	1.46	-0.33	347.69	
2,525.0	0.17	184.90	2,524.5	-17.0	13.7	17.5	0.22	-0.20	29.08	
2,550.0	0.36	129.36	2,549.5	-17.1	13.8	17.6	1.19	0.76	-222.16	
2,575.0	0.79	88.98	2,574.5	-17.2	14.0	17.7	2.26	1.72	-161.52	
2,600.0	1.82	83.05	2,599.5	-17.1	14.6	17.6	4.15	4.12	-23.72	
2,625.0	2.84	82.30	2,624.4	-17.0	15.6	17.5	4.08	4.08	-3.00	
2,650.0	3.99	78.36	2,649.4	-16.7	17.0	17.3	4.69	4.60	-15.76	
2,675.0	4.90	75.98	2,674.3	-16.3	18.9	17.0	3.71	3.64	-9.52	
2,700.0	5.16	71.91	2,699.2	-15.7	21.0	16.4	1.77	1.04	-16.28	
2,725.0	5.31	72.68	2,724.1	-15.0	23.2	15.8	0.66	0.60	3.08	
2,750.0	4.78	71.57	2,749.0	-14.3	25.3	15.2	2.16	-2.12	-4.44	
2,775.0	5.24	72.25	2,773.9	-13.6	27.4	14.6	1.86	1.84	2.72	
2,800.0	5.23	72.84	2,798.8	-13.0	29.6	14.0	0.22	-0.04	2.36	
2,825.0	5.16	72.12	2,823.7	-12.3	31.7	13.4	0.38	-0.28	-2.88	
2,850.0	5.14	71.08	2,848.6	-11.6	33.8	12.8	0.38	-0.08	-4.16	
2,875.0	5.28	72.63	2,873.5	-10.9	36.0	12.2	0.79	0.56	6.20	
2,900.0	5.43	72.63	2,898.4	-10.2	38.2	11.5	0.60	0.60	0.00	
2,925.0	5.41	70.37	2,923.3	-9.4	40.5	10.9	0.86	-0.08	-9.04	
2,950.0	5.51	70.78	2,948.2	-8.6	42.7	10.2	0.43	0.40	1.64	
2,975.0	5.21	68.80	2,973.1	-7.8	44.9	9.4	1.41	-1.20	-7.92	
3,000.0	5.92	67.61	2,998.0	-6.9	47.1	8.6	2.88	2.84	-4.76	
3,025.0	6.66	64.32	3,022.8	-5.8	49.6	7.6	3.29	2.96	-13.16	
3,050.0	6.79	62.53	3,047.6	-4.5	52.3	6.4	0.99	0.52	-7.16	
3,075.0	6.96	60.79	3,072.4	-3.1	54.9	5.1	1.08	0.68	-6.96	
3,100.0	6.59	62.24	3,097.3	-1.7	57.5	3.7	1.63	-1.48	5.80	
3,125.0	7.00	60.49	3,122.1	-0.2	60.1	2.4	1.84	1.64	-7.00	
3,150.0	7.01	61.13	3,146.9	1.2	62.7	1.0	0.31	0.04	2.56	
3,175.0	7.02	61.09	3,171.7	2.7	65.4	-0.3	0.04	0.04	-0.16	
3,200.0	7.05	61.96	3,196.5	4.2	68.1	-1.7	0.44	0.12	3.48	
3,225.0	7.13	60.96	3,221.3	5.6	70.8	-3.1	0.59	0.32	-4.00	
3,250.0	7.19	60.72	3,246.2	7.2	73.5	-4.5	0.27	0.24	-0.96	
3,275.0	6.94	61.88	3,271.0	8.6	76.2	-5.9	1.15	-1.00	4.64	
3,300.0	6.74	62.06	3,295.8	10.0	78.9	-7.2	0.80	-0.80	0.72	

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)
Site:	(SRO 4 State Com) Sec-4_T-26-S_R-28-E	MD Reference:	KB @ 3020.7usft (Precision 106)
Well:	SRO 4 State Com #501H	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	6.66	62.78	3,320.6	11.4	81.5	-8.4	0.46	-0.32	2.88	
3,350.0	6.78	64.26	3,345.4	12.7	84.1	-9.7	0.84	0.48	5.92	
3,354.6	6.77	63.69	3,350.0	12.9	84.6	-9.9	1.48	-0.27	-12.31	
CYCN										
3,375.0	6.72	61.16	3,370.3	14.0	86.7	-10.9	1.48	-0.23	-12.42	
3,400.0	6.68	61.63	3,395.1	15.4	89.2	-12.2	0.27	-0.16	1.88	
3,425.0	6.73	63.37	3,419.9	16.8	91.8	-13.5	0.84	0.20	6.96	
3,450.0	6.88	62.05	3,444.7	18.1	94.5	-14.7	0.87	0.60	-5.28	
3,475.0	6.70	61.23	3,469.6	19.6	97.1	-16.0	0.82	-0.72	-3.28	
3,500.0	6.80	59.78	3,494.4	21.0	99.6	-17.4	0.79	0.40	-5.80	
3,525.0	6.73	62.08	3,519.2	22.4	102.2	-18.7	1.12	-0.28	9.20	
3,550.0	6.91	60.91	3,544.0	23.8	104.8	-20.0	0.91	0.72	-4.68	
3,575.0	6.87	60.89	3,568.9	25.3	107.4	-21.4	0.16	-0.16	-0.08	
3,600.0	6.98	61.28	3,593.7	26.8	110.1	-22.8	0.48	0.44	1.56	
3,625.0	6.98	59.98	3,618.5	28.3	112.7	-24.2	0.63	0.00	-5.20	
3,650.0	7.08	60.64	3,643.3	29.8	115.4	-25.6	0.51	0.40	2.64	
3,675.0	7.12	60.68	3,668.1	31.3	118.1	-27.0	0.16	0.16	0.16	
3,700.0	7.09	61.16	3,692.9	32.8	120.8	-28.4	0.27	-0.12	1.92	
3,725.0	7.23	60.76	3,717.7	34.3	123.5	-29.8	0.59	0.56	-1.60	
3,750.0	7.15	58.41	3,742.5	35.9	126.2	-31.3	1.22	-0.32	-9.40	
3,775.0	7.19	60.33	3,767.3	37.5	128.9	-32.8	0.97	0.16	7.68	
3,800.0	7.26	60.37	3,792.1	39.0	131.6	-34.2	0.28	0.28	0.16	
3,825.0	7.22	60.72	3,816.9	40.6	134.3	-35.7	0.24	-0.16	1.40	
3,850.0	7.11	60.90	3,841.7	42.1	137.1	-37.1	0.45	-0.44	0.72	
3,875.0	7.02	60.75	3,866.6	43.6	139.8	-38.5	0.37	-0.36	-0.60	
3,900.0	6.90	60.01	3,891.4	45.1	142.4	-39.9	0.60	-0.48	-2.96	
3,925.0	5.91	61.92	3,916.2	46.4	144.8	-41.2	4.05	-3.96	7.64	
3,950.0	5.82	61.81	3,941.1	47.7	147.1	-42.3	0.36	-0.36	-0.44	
3,975.0	5.46	60.19	3,966.0	48.8	149.2	-43.4	1.57	-1.44	-6.48	
4,000.0	5.29	58.89	3,990.9	50.0	151.2	-44.5	0.84	-0.68	-5.20	
4,025.0	5.13	61.91	4,015.8	51.2	153.2	-45.6	1.27	-0.64	12.08	
4,050.0	4.72	59.80	4,040.7	52.2	155.1	-46.6	1.79	-1.64	-8.44	
4,075.0	4.86	57.65	4,065.6	53.3	156.9	-47.6	0.91	0.56	-8.60	
4,100.0	4.89	59.75	4,090.5	54.4	158.7	-48.6	0.72	0.12	8.40	
4,125.0	4.72	59.70	4,115.4	55.4	160.5	-49.6	0.68	-0.68	-0.20	
4,150.0	4.80	61.44	4,140.3	56.5	162.3	-50.6	0.66	0.32	6.96	
4,175.0	5.16	60.07	4,165.2	57.5	164.2	-51.5	1.52	1.44	-5.48	
4,200.0	4.93	59.00	4,190.1	58.6	166.1	-52.6	0.99	-0.92	-4.28	
4,225.0	4.79	61.05	4,215.0	59.7	167.9	-53.6	0.89	-0.56	8.20	
4,250.0	4.98	61.57	4,239.9	60.7	169.8	-54.5	0.78	0.76	2.08	
4,275.0	4.86	59.82	4,264.8	61.8	171.7	-55.5	0.77	-0.48	-7.00	
4,300.0	4.78	56.83	4,289.8	62.9	173.5	-56.6	1.05	-0.32	-11.96	
4,325.0	4.95	62.10	4,314.7	63.9	175.3	-57.6	1.91	0.68	21.08	
4,350.0	5.15	62.34	4,339.6	65.0	177.2	-58.5	0.80	0.80	0.96	

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)
Site:	(SRO 4 State Com) Sec-4_T-26-S_R-28-E	MD Reference:	KB @ 3020.7usft (Precision 106)
Well:	SRO 4 State Com #501H	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	5.04	59.20	4,364.5	66.0	179.2	-59.5	1.20	-0.44	-12.56	
4,400.0	5.20	57.83	4,389.4	67.2	181.1	-60.6	0.81	0.64	-5.48	
4,425.0	5.07	62.61	4,414.3	68.3	183.0	-61.7	1.79	-0.52	19.12	
4,450.0	5.38	62.32	4,439.2	69.4	185.0	-62.6	1.24	1.24	-1.16	
4,475.0	4.88	62.60	4,464.1	70.4	187.0	-63.6	2.00	-2.00	1.12	
4,500.0	4.18	64.96	4,489.0	71.3	188.8	-64.4	2.90	-2.80	9.44	
4,525.0	3.77	65.89	4,513.9	72.0	190.3	-65.1	1.66	-1.64	3.72	
4,550.0	4.23	65.13	4,538.9	72.7	191.9	-65.7	1.85	1.84	-3.04	
4,565.2	4.11	63.99	4,554.0	73.2	192.9	-66.2	0.97	-0.80	-7.49	
BYCN										
4,575.0	4.03	63.22	4,563.8	73.5	193.6	-66.5	0.97	-0.79	-7.87	
4,600.0	3.91	66.05	4,588.7	74.3	195.1	-67.2	0.92	-0.48	11.32	
4,625.0	3.88	68.91	4,613.7	74.9	196.7	-67.7	0.79	-0.12	11.44	
4,650.0	4.08	65.22	4,638.6	75.6	198.3	-68.4	1.30	0.80	-14.76	
4,675.0	3.95	64.02	4,663.6	76.3	199.9	-69.1	0.62	-0.52	-4.80	
4,700.0	3.91	66.47	4,688.5	77.0	201.4	-69.7	0.69	-0.16	9.80	
4,725.0	3.87	64.70	4,713.4	77.8	203.0	-70.4	0.51	-0.16	-7.08	
4,750.0	3.63	64.13	4,738.4	78.5	204.4	-71.0	0.97	-0.96	-2.28	
4,775.0	3.50	66.61	4,763.3	79.1	205.9	-71.6	0.81	-0.52	9.92	
4,800.0	3.36	65.80	4,788.3	79.7	207.2	-72.2	0.59	-0.56	-3.24	
4,825.0	3.07	69.96	4,813.3	80.2	208.5	-72.6	1.49	-1.16	16.64	
4,850.0	3.07	70.81	4,838.2	80.7	209.8	-73.1	0.18	0.00	3.40	
4,875.0	3.28	70.15	4,863.2	81.2	211.1	-73.5	0.85	0.84	-2.64	
4,900.0	3.08	65.93	4,888.1	81.7	212.4	-73.9	1.23	-0.80	-16.88	
4,925.0	2.78	71.41	4,913.1	82.1	213.6	-74.4	1.64	-1.20	21.92	
4,950.0	3.05	70.95	4,938.1	82.5	214.8	-74.7	1.08	1.08	-1.84	
4,975.0	2.58	66.35	4,963.1	83.0	215.9	-75.1	2.08	-1.88	-18.40	
5,000.0	2.46	69.69	4,988.0	83.4	216.9	-75.5	0.76	-0.48	13.36	
5,025.0	2.73	70.44	5,013.0	83.8	218.0	-75.9	1.09	1.08	3.00	
5,050.0	3.51	74.99	5,038.0	84.2	219.3	-76.2	3.27	3.12	18.20	
5,075.0	3.56	69.14	5,062.9	84.7	220.8	-76.6	1.46	0.20	-23.40	
5,100.0	3.51	69.29	5,087.9	85.2	222.2	-77.1	0.20	-0.20	0.60	
5,125.0	3.52	70.87	5,112.8	85.7	223.6	-77.6	0.39	0.04	6.32	
5,150.0	3.68	74.02	5,137.8	86.2	225.1	-78.0	1.02	0.64	12.60	
5,175.0	3.65	68.09	5,162.7	86.7	226.6	-78.5	1.52	-0.12	-23.72	
5,200.0	3.66	69.01	5,187.7	87.3	228.1	-79.0	0.24	0.04	3.68	
5,225.0	3.59	72.18	5,212.6	87.8	229.6	-79.5	0.85	-0.28	12.68	
5,250.0	3.65	72.12	5,237.6	88.3	231.1	-79.9	0.24	0.24	-0.24	
5,275.0	3.79	70.08	5,262.5	88.8	232.7	-80.4	0.77	0.56	-8.16	
5,300.0	3.40	69.27	5,287.5	89.4	234.1	-80.9	1.57	-1.56	-3.24	
5,325.0	3.38	70.52	5,312.4	89.9	235.5	-81.3	0.31	-0.08	5.00	
5,350.0	3.42	70.56	5,337.4	90.4	236.9	-81.8	0.16	0.16	0.16	
5,375.0	3.39	68.03	5,362.3	90.9	238.3	-82.2	0.61	-0.12	-10.12	

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)
Site:	(SRO 4 State Com) Sec-4_T-26-S_R-28-E	MD Reference:	KB @ 3020.7usft (Precision 106)
Well:	SRO 4 State Com #501H	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	3.07	75.37	5,387.3	91.4	239.6	-82.6	2.09	-1.28	29.36
5,425.0	3.14	68.46	5,412.3	91.8	240.9	-83.0	1.52	0.28	-27.64
5,450.0	3.18	70.28	5,437.2	92.3	242.2	-83.4	0.43	0.16	7.28
5,475.0	3.34	75.01	5,462.2	92.7	243.6	-83.8	1.25	0.64	18.92
5,500.0	3.40	71.30	5,487.1	93.1	245.0	-84.2	0.90	0.24	-14.84
5,525.0	3.35	72.13	5,512.1	93.6	246.4	-84.6	0.28	-0.20	3.32
5,550.0	3.21	71.85	5,537.1	94.0	247.7	-85.0	0.56	-0.56	-1.12
5,575.0	3.28	72.39	5,562.0	94.4	249.1	-85.4	0.31	0.28	2.16
5,600.0	3.17	75.31	5,587.0	94.8	250.4	-85.7	0.79	-0.44	11.68
5,625.0	3.24	77.27	5,611.9	95.2	251.8	-86.0	0.52	0.28	7.84
5,650.0	3.15	74.27	5,636.9	95.5	253.1	-86.3	0.76	-0.36	-12.00
5,675.0	3.14	69.45	5,661.9	95.9	254.4	-86.7	1.06	-0.04	-19.28
5,700.0	3.65	65.97	5,686.8	96.5	255.8	-87.2	2.20	2.04	-13.92
5,725.0	3.98	70.90	5,711.8	97.1	257.3	-87.7	1.86	1.32	19.72
5,750.0	4.10	67.27	5,736.7	97.7	259.0	-88.3	1.13	0.48	-14.52
5,775.0	3.99	64.39	5,761.6	98.5	260.6	-89.0	0.92	-0.44	-11.52
5,800.0	3.96	64.99	5,786.6	99.2	262.2	-89.7	0.21	-0.12	2.40
5,825.0	3.74	68.19	5,811.5	99.9	263.7	-90.3	1.23	-0.88	12.80
5,850.0	3.67	69.47	5,836.5	100.4	265.2	-90.8	0.43	-0.28	5.12
5,875.0	3.69	69.91	5,861.4	101.0	266.7	-91.3	0.14	0.08	1.76
5,900.0	3.74	71.04	5,886.4	101.5	268.2	-91.8	0.35	0.20	4.52
5,925.0	3.36	69.19	5,911.3	102.1	269.7	-92.3	1.59	-1.52	-7.40
5,950.0	2.98	71.84	5,936.3	102.5	271.0	-92.7	1.63	-1.52	10.60
5,975.0	2.96	75.13	5,961.2	102.9	272.2	-93.0	0.69	-0.08	13.16
6,000.0	2.98	71.17	5,986.2	103.3	273.5	-93.3	0.82	0.08	-15.84
6,025.0	2.82	71.95	6,011.2	103.7	274.7	-93.7	0.66	-0.64	3.12
6,050.0	2.94	78.16	6,036.1	104.0	275.9	-94.0	1.34	0.48	24.84
6,075.0	3.20	74.31	6,061.1	104.3	277.2	-94.2	1.33	1.04	-15.40
6,100.0	2.97	72.37	6,086.1	104.7	278.5	-94.6	1.01	-0.92	-7.76
6,125.0	2.98	75.71	6,111.0	105.1	279.7	-94.9	0.69	0.04	13.36
6,132.0	3.07	73.06	6,118.0	105.2	280.1	-95.0	2.41	1.33	-38.04
Bone Sprg (BSGL)									
6,150.0	3.34	66.93	6,136.0	105.5	281.0	-95.3	2.41	1.48	-33.99
6,175.0	3.35	61.82	6,161.0	106.1	282.3	-95.9	1.19	0.04	-20.44
6,200.0	3.38	60.19	6,185.9	106.9	283.6	-96.5	0.40	0.12	-6.52
6,225.0	3.58	64.64	6,210.9	107.6	285.0	-97.2	1.34	0.80	17.80
6,250.0	4.03	59.30	6,235.8	108.3	286.4	-97.9	2.29	1.80	-21.36
6,275.0	4.00	56.69	6,260.8	109.3	287.9	-98.8	0.74	-0.12	-10.44
6,300.0	4.01	56.42	6,285.7	110.2	289.4	-99.7	0.09	0.04	-1.08
6,325.0	4.12	57.08	6,310.6	111.2	290.9	-100.6	0.48	0.44	2.64
6,350.0	3.89	48.95	6,335.6	112.2	292.2	-101.6	2.45	-0.92	-32.52
6,375.0	3.46	44.61	6,360.5	113.3	293.4	-102.7	2.05	-1.72	-17.36
6,400.0	3.21	43.96	6,385.5	114.4	294.4	-103.7	1.01	-1.00	-2.60
6,425.0	3.35	44.96	6,410.4	115.4	295.4	-104.6	0.60	0.56	4.00

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)
Site:	(SRO 4 State Com) Sec-4_T-26-S_R-28-E	MD Reference:	KB @ 3020.7usft (Precision 106)
Well:	SRO 4 State Com #501H	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)
6,450.0	3.74	45.10	6,435.4	116.5	296.5	-105.7	1.56	1.56	0.56
6,464.6	3.77	43.17	6,450.0	117.2	297.2	-106.4	0.88	0.19	-13.19
U Avalon Sh									
6,475.0	3.79	41.82	6,460.3	117.7	297.7	-106.8	0.88	0.21	-13.02
6,500.0	3.41	36.06	6,485.3	118.9	298.6	-108.0	2.10	-1.52	-23.04
6,525.0	2.86	29.79	6,510.2	120.0	299.4	-109.1	2.59	-2.20	-25.08
6,550.0	2.56	27.19	6,535.2	121.1	300.0	-110.2	1.30	-1.20	-10.40
6,575.0	2.54	21.92	6,560.2	122.1	300.4	-111.1	0.94	-0.08	-21.08
6,600.0	2.60	14.77	6,585.2	123.1	300.8	-112.2	1.30	0.24	-28.60
6,625.0	2.30	19.80	6,610.1	124.2	301.1	-113.2	1.48	-1.20	20.12
6,650.0	2.30	35.31	6,635.1	125.1	301.5	-114.1	2.48	0.00	62.04
6,675.0	2.39	37.12	6,660.1	125.9	302.2	-114.9	0.47	0.36	7.24
6,679.9	2.32	38.85	6,665.0	126.0	302.3	-115.0	2.06	-1.46	35.41
L Avalon Sh									
6,700.0	2.05	47.18	6,685.1	126.6	302.8	-115.6	2.06	-1.33	41.42
6,725.0	1.66	66.39	6,710.1	127.0	303.5	-116.0	2.91	-1.56	76.84
6,750.0	1.74	97.59	6,735.1	127.1	304.2	-116.1	3.67	0.32	124.80
6,775.0	1.87	94.04	6,760.1	127.1	304.9	-116.0	0.69	0.52	-14.20
6,800.0	1.75	95.09	6,785.0	127.0	305.7	-115.9	0.50	-0.48	4.20
6,825.0	1.83	100.41	6,810.0	126.9	306.5	-115.7	0.74	0.32	21.28
6,850.0	2.21	101.08	6,835.0	126.7	307.4	-115.5	1.52	1.52	2.68
6,860.0	2.33	99.88	6,845.0	126.7	307.8	-115.4	1.28	1.19	-12.02
B Avalon Sh									
6,875.0	2.51	98.29	6,860.0	126.6	308.4	-115.3	1.28	1.20	-10.59
6,900.0	2.57	94.04	6,885.0	126.4	309.5	-115.2	0.79	0.24	-17.00
6,925.0	3.05	93.33	6,909.9	126.4	310.7	-115.0	1.93	1.92	-2.84
6,950.0	3.50	93.82	6,934.9	126.3	312.1	-114.9	1.80	1.80	1.96
6,975.0	3.82	91.70	6,959.8	126.2	313.7	-114.8	1.39	1.28	-8.48
7,000.0	3.70	88.40	6,984.8	126.2	315.4	-114.7	0.99	-0.48	-13.20
7,025.0	4.10	88.86	7,009.7	126.2	317.1	-114.7	1.60	1.60	1.84
7,050.0	4.38	87.63	7,034.7	126.3	318.9	-114.7	1.18	1.12	-4.92
7,064.4	4.50	84.44	7,049.0	126.4	320.0	-114.7	1.91	0.85	-22.17
FBSG_sand									
7,075.0	4.60	82.20	7,059.6	126.5	320.9	-114.8	1.91	0.93	-21.11
7,100.0	4.93	73.16	7,084.5	126.9	322.9	-115.2	3.28	1.32	-36.16
7,125.0	4.71	71.17	7,109.4	127.6	324.9	-115.7	1.11	-0.88	-7.96
7,150.0	5.04	69.38	7,134.3	128.3	326.9	-116.4	1.45	1.32	-7.16
7,175.0	4.58	67.11	7,159.2	129.0	328.8	-117.1	1.99	-1.84	-9.08
7,200.0	4.10	66.33	7,184.2	129.8	330.6	-117.8	1.93	-1.92	-3.12
7,225.0	3.91	64.33	7,209.1	130.5	332.2	-118.4	0.94	-0.76	-8.00
7,250.0	3.66	63.10	7,234.0	131.3	333.6	-119.1	1.05	-1.00	-4.92
7,275.0	3.83	64.29	7,259.0	132.0	335.1	-119.8	0.75	0.68	4.76
7,300.0	4.18	63.19	7,283.9	132.7	336.7	-120.5	1.43	1.40	-4.40
7,325.0	4.35	62.78	7,308.9	133.6	338.3	-121.3	0.69	0.68	-1.64

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)
Site:	(SRO 4 State Com) Sec-4_T-26-S_R-28-E	MD Reference:	KB @ 3020.7usft (Precision 106)
Well:	SRO 4 State Com #501H	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)	
7,331.0	4.29	62.97	7,314.8	133.8	338.7	-121.5	1.03	-1.00	3.17	
7,426.0	1.37	52.40	7,409.7	136.1	342.8	-123.6	3.11	-3.07	-11.13	
7,518.0	6.29	157.37	7,501.5	132.1	345.6	-119.5	7.36	5.35	114.10	
7,565.0	12.44	161.78	7,547.9	124.9	348.2	-112.3	13.16	13.09	9.38	
7,572.3	13.28	161.75	7,555.0	123.4	348.7	-110.7	11.44	11.44	-0.39	
FTP @ 7572.3'MD, 100'FNL & 1089'FEL										
7,608.0	17.36	161.65	7,589.4	114.4	351.6	-101.7	11.44	11.44	-0.28	
7,655.0	21.18	161.38	7,633.8	99.7	356.6	-86.8	8.13	8.13	-0.57	
7,700.0	23.79	161.78	7,675.4	83.4	362.0	-70.3	5.81	5.80	0.89	
7,747.0	27.49	166.18	7,717.7	63.9	367.6	-50.5	8.85	7.87	9.36	
7,751.8	27.93	166.53	7,722.0	61.7	368.1	-48.3	9.83	9.22	7.30	
SBSG_sand										
7,792.0	31.67	169.11	7,756.9	42.2	372.3	-28.7	9.83	9.30	6.42	
7,839.0	35.26	170.07	7,796.1	16.7	376.9	-3.0	7.72	7.64	2.04	
7,884.0	37.79	171.65	7,832.2	-9.8	381.2	23.5	6.00	5.62	3.51	
7,931.0	41.61	171.84	7,868.4	-39.5	385.5	53.4	8.13	8.13	0.40	
7,976.0	45.57	173.80	7,901.0	-70.3	389.4	84.3	9.30	8.80	4.36	
8,023.0	51.09	174.76	7,932.2	-105.2	392.8	119.3	11.84	11.74	2.04	
8,068.0	56.03	175.04	7,958.9	-141.2	396.1	155.4	10.99	10.98	0.62	
8,115.0	61.67	175.65	7,983.2	-181.3	399.3	195.6	12.05	12.00	1.30	
8,160.0	65.57	175.48	8,003.2	-221.5	402.4	235.9	8.67	8.67	-0.38	
8,207.0	69.84	175.83	8,021.0	-264.8	405.7	279.3	9.11	9.09	0.74	
8,251.0	73.09	177.20	8,035.0	-306.5	408.2	321.0	7.95	7.39	3.11	
8,298.0	75.05	177.90	8,047.9	-351.6	410.2	366.2	4.41	4.17	1.49	
8,342.0	78.96	177.44	8,057.8	-394.4	411.9	409.1	8.94	8.89	-1.05	
8,389.0	82.62	177.42	8,065.3	-440.8	414.0	455.5	7.79	7.79	-0.04	
8,433.0	86.96	178.15	8,069.3	-484.6	415.7	499.3	10.00	9.86	1.66	
8,526.0	89.09	176.78	8,072.5	-577.4	419.8	592.2	2.72	2.29	-1.47	
8,620.0	89.45	178.91	8,073.7	-671.3	423.3	686.2	2.30	0.38	2.27	
8,713.0	90.32	178.29	8,073.9	-764.3	425.6	779.2	1.15	0.94	-0.67	
8,807.0	91.05	180.39	8,072.8	-858.3	426.7	873.1	2.37	0.78	2.23	
8,899.0	88.95	180.72	8,072.8	-950.3	425.8	965.0	2.31	-2.28	0.36	
8,991.0	89.37	179.69	8,074.2	-1,042.3	425.5	1,057.0	1.21	0.46	-1.12	
9,085.0	90.41	178.74	8,074.3	-1,136.2	426.8	1,150.9	1.50	1.11	-1.01	
9,178.0	90.29	180.77	8,073.8	-1,229.2	427.2	1,243.9	2.19	-0.13	2.18	
9,272.0	91.30	179.79	8,072.5	-1,323.2	426.7	1,337.8	1.50	1.07	-1.04	
9,364.0	90.71	180.73	8,070.8	-1,415.2	426.3	1,429.7	1.21	-0.64	1.02	
9,458.0	91.25	180.21	8,069.2	-1,509.2	425.5	1,523.6	0.80	0.57	-0.55	
9,552.0	89.93	180.67	8,068.3	-1,603.2	424.8	1,617.5	1.49	-1.40	0.49	
9,644.0	90.41	180.34	8,068.0	-1,695.2	424.0	1,709.4	0.63	0.52	-0.36	
9,738.0	91.84	179.25	8,066.2	-1,789.2	424.3	1,803.3	1.91	1.52	-1.16	
9,831.0	90.04	179.71	8,064.6	-1,882.1	425.2	1,896.3	2.00	-1.94	0.49	
9,924.0	90.60	179.74	8,064.1	-1,975.1	425.6	1,989.2	0.60	0.60	0.03	
10,016.0	90.21	181.42	8,063.5	-2,067.1	424.7	2,081.1	1.87	-0.42	1.83	

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)
Site:	(SRO 4 State Com) Sec-4_T-26-S_R-28-E	MD Reference:	KB @ 3020.7usft (Precision 106)
Well:	SRO 4 State Com #501H	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)
10,109.0	91.22	180.83	8,062.3	-2,160.1	422.9	2,174.0	1.26	1.09	-0.63
10,202.0	89.40	181.65	8,061.8	-2,253.1	420.8	2,266.8	2.15	-1.96	0.88
10,294.0	89.73	180.48	8,062.5	-2,345.0	419.1	2,358.7	1.32	0.36	-1.27
10,387.0	90.85	179.72	8,062.0	-2,438.0	419.0	2,451.6	1.46	1.20	-0.82
10,481.0	89.06	181.49	8,062.1	-2,532.0	418.0	2,545.5	2.68	-1.90	1.88
10,574.0	89.03	181.39	8,063.6	-2,625.0	415.6	2,638.3	0.11	-0.03	-0.11
10,668.0	90.38	180.95	8,064.1	-2,719.0	413.7	2,732.1	1.51	1.44	-0.47
10,760.0	89.23	181.55	8,064.4	-2,810.9	411.7	2,824.0	1.41	-1.25	0.65
10,855.0	90.21	180.36	8,064.9	-2,905.9	410.1	2,918.8	1.62	1.03	-1.25
10,948.0	91.02	179.88	8,063.9	-2,998.9	409.9	3,011.8	1.01	0.87	-0.52
11,062.0	89.43	180.09	8,063.5	-3,112.9	410.0	3,125.7	1.41	-1.39	0.18
11,154.0	90.24	179.77	8,063.7	-3,204.9	410.1	3,217.6	0.95	0.88	-0.35
11,245.0	91.39	179.11	8,062.4	-3,295.9	411.0	3,308.6	1.46	1.26	-0.73
11,337.0	89.26	178.93	8,061.9	-3,387.9	412.5	3,400.6	2.32	-2.32	-0.20
11,428.0	90.46	177.40	8,062.1	-3,478.8	415.5	3,491.6	2.14	1.32	-1.68
11,520.0	90.27	176.97	8,061.5	-3,570.7	420.0	3,583.6	0.51	-0.21	-0.47
11,612.0	89.93	178.88	8,061.4	-3,662.6	423.3	3,675.6	2.11	-0.37	2.08
11,704.0	88.42	180.51	8,062.7	-3,754.6	423.8	3,767.5	2.41	-1.64	1.77
11,796.0	88.98	182.69	8,064.8	-3,846.6	421.2	3,859.3	2.45	0.61	2.37
11,888.0	89.54	182.25	8,066.0	-3,938.5	417.3	3,951.0	0.77	0.61	-0.48
11,979.0	91.08	180.97	8,065.5	-4,029.4	414.7	4,041.8	2.20	1.69	-1.41
12,071.0	91.30	182.01	8,063.6	-4,121.4	412.3	4,133.6	1.16	0.24	1.13
12,162.0	91.64	181.53	8,061.2	-4,212.3	409.5	4,224.3	0.65	0.37	-0.53
12,253.0	90.60	181.49	8,059.5	-4,303.3	407.1	4,315.2	1.14	-1.14	-0.04
12,347.0	89.87	183.08	8,059.1	-4,397.2	403.4	4,408.9	1.86	-0.78	1.69
12,439.0	90.21	182.23	8,059.0	-4,489.1	399.1	4,500.6	1.00	0.37	-0.92
12,535.0	90.97	182.18	8,058.0	-4,585.0	395.4	4,596.3	0.79	0.79	-0.05
12,628.0	88.75	182.20	8,058.3	-4,677.9	391.8	4,689.0	2.39	-2.39	0.02
12,720.0	88.84	182.32	8,060.2	-4,769.8	388.2	4,780.7	0.16	0.10	0.13
12,813.0	89.48	182.22	8,061.6	-4,862.7	384.5	4,873.5	0.70	0.69	-0.11
12,907.0	90.41	181.99	8,061.6	-4,956.7	381.1	4,967.2	1.02	0.99	-0.24
13,000.0	90.29	180.06	8,061.1	-5,049.7	379.4	5,060.1	2.08	-0.13	-2.08
13,094.0	90.83	179.48	8,060.2	-5,143.7	379.8	5,154.0	0.84	0.57	-0.62
13,186.0	92.14	179.28	8,057.8	-5,235.6	380.8	5,246.0	1.44	1.42	-0.22
13,280.0	91.13	178.81	8,055.1	-5,329.6	382.4	5,339.9	1.19	-1.07	-0.50
13,374.0	90.15	178.85	8,054.0	-5,423.5	384.3	5,433.9	1.04	-1.04	0.04
13,467.0	91.33	179.10	8,052.8	-5,516.5	385.9	5,526.9	1.30	1.27	0.27
13,560.0	89.37	179.31	8,052.3	-5,609.5	387.2	5,619.8	-2.12	-2.11	0.23
13,653.0	88.92	179.30	8,053.7	-5,702.5	388.4	5,712.8	0.48	-0.48	-0.01
13,746.0	89.68	179.22	8,054.8	-5,795.5	389.6	5,805.8	0.82	0.82	-0.09
13,841.0	90.52	178.47	8,054.6	-5,890.4	391.5	5,900.7	1.19	0.88	-0.79
13,935.0	90.01	179.54	8,054.2	-5,984.4	393.1	5,994.7	1.26	-0.54	1.14
14,027.0	90.80	179.52	8,053.5	-6,076.4	393.9	6,086.7	0.86	0.86	-0.02

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)
Site:	(SRO 4 State Com) Sec-4_T-26-S_R-28-E	MD Reference:	KB @ 3020.7usft (Precision 106)
Well:	SRO 4 State Com #501H	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)
14,120.0	90.91	180.07	8,052.2	-6,169.4	394.2	6,179.6	0.60	0.12	0.59
14,213.0	91.50	179.84	8,050.2	-6,262.4	394.3	6,272.5	0.68	0.63	-0.25
14,306.0	90.74	181.05	8,048.4	-6,355.4	393.5	6,365.4	1.54	-0.82	1.30
14,401.0	90.71	181.56	8,047.2	-6,450.3	391.4	6,460.3	0.54	-0.03	0.54
14,493.0	89.40	180.92	8,047.1	-6,542.3	389.4	6,552.1	1.58	-1.42	-0.70
14,585.0	89.99	180.81	8,047.6	-6,634.3	388.0	6,644.0	0.65	0.64	-0.12
14,680.0	88.84	180.71	8,048.6	-6,729.3	386.7	6,738.9	1.22	-1.21	-0.11
14,773.0	88.92	180.76	8,050.4	-6,822.3	385.5	6,831.7	0.10	0.09	0.05
14,866.0	89.23	180.89	8,051.9	-6,915.2	384.2	6,924.6	0.36	0.33	0.14
14,960.0	88.95	180.87	8,053.4	-7,009.2	382.8	7,018.5	0.30	-0.30	-0.02
15,053.0	89.43	180.43	8,054.7	-7,102.2	381.7	7,111.3	0.70	0.52	-0.47
15,145.0	89.37	180.47	8,055.6	-7,194.2	381.0	7,203.3	0.08	-0.07	0.04
15,238.0	89.99	180.67	8,056.2	-7,287.2	380.1	7,296.2	0.70	0.67	0.22
15,331.0	90.88	180.34	8,055.5	-7,380.2	379.2	7,389.1	1.02	0.96	-0.35
15,425.0	89.79	180.51	8,054.9	-7,474.2	378.5	7,483.0	1.17	-1.16	0.18
15,519.0	90.21	179.81	8,054.9	-7,568.2	378.3	7,576.9	0.87	0.45	-0.74
15,611.0	90.29	178.83	8,054.5	-7,660.2	379.4	7,668.9	1.07	0.09	-1.07
15,706.0	90.55	178.62	8,053.8	-7,755.1	381.5	7,763.9	0.35	0.27	-0.22
15,799.0	90.80	180.29	8,052.7	-7,848.1	382.4	7,856.8	1.82	0.27	1.80
15,891.0	89.73	180.94	8,052.3	-7,940.1	381.4	7,948.7	1.36	-1.16	0.71
15,983.0	89.96	180.66	8,052.5	-8,032.1	380.1	8,040.6	0.39	0.25	-0.30
16,076.0	91.53	180.43	8,051.3	-8,125.1	379.2	8,133.5	1.71	1.69	-0.25
16,172.0	90.07	179.83	8,050.0	-8,221.1	379.0	8,229.4	1.64	-1.52	-0.63
16,267.0	91.05	180.12	8,049.1	-8,316.1	379.0	8,324.3	1.08	1.03	0.31
16,359.0	89.54	181.37	8,048.6	-8,408.1	377.8	8,416.2	2.13	-1.64	1.36
16,451.0	89.96	181.66	8,049.0	-8,500.0	375.4	8,508.0	0.55	0.46	0.32
16,545.0	90.32	181.53	8,048.8	-8,594.0	372.8	8,601.8	0.41	0.38	-0.14
16,638.0	91.08	181.42	8,047.6	-8,686.9	370.4	8,694.7	0.83	0.82	-0.12
16,732.0	89.96	181.40	8,046.8	-8,780.9	368.1	8,788.5	1.19	-1.19	-0.02
16,825.0	89.99	180.72	8,046.8	-8,873.9	366.4	8,881.3	0.73	0.03	-0.73
16,919.0	90.38	180.78	8,046.5	-8,967.9	365.1	8,975.2	0.42	0.41	0.06
17,013.0	89.17	180.27	8,046.9	-9,061.9	364.3	9,069.1	1.40	-1.29	-0.54
17,105.0	90.57	180.60	8,047.1	-9,153.9	363.6	9,161.0	1.56	1.52	0.36
17,199.0	89.23	180.22	8,047.2	-9,247.9	362.9	9,254.9	1.48	-1.43	-0.40
17,293.0	90.41	180.51	8,047.5	-9,341.9	362.3	9,348.9	1.29	1.26	0.31
17,387.0	89.03	180.11	8,048.0	-9,435.9	361.8	9,442.8	1.53	-1.47	-0.43
17,480.0	89.68	179.96	8,049.0	-9,528.9	361.7	9,535.7	0.72	0.70	-0.16
17,573.0	90.21	180.22	8,049.1	-9,621.9	361.6	9,628.6	0.63	0.57	0.28
17,665.0	90.46	180.52	8,048.6	-9,713.8	361.0	9,720.5	0.42	0.27	0.33
17,758.0	90.74	180.75	8,047.6	-9,806.8	360.0	9,813.4	0.39	0.30	0.25
17,851.0	88.87	180.37	8,047.9	-9,899.8	359.1	9,906.3	2.05	-2.01	-0.41
17,944.0	89.12	180.95	8,049.6	-9,992.8	358.0	9,999.2	0.68	0.27	0.62
18,037.0	89.45	181.35	8,050.7	-10,085.8	356.1	10,092.1	0.56	0.35	0.43

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)
Site:	(SRO 4 State Com) Sec-4_T-26-S_R-28-E	MD Reference:	KB @ 3020.7usft (Precision 106)
Well:	SRO 4 State Com #501H	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)
18,131.0	90.21	181.66	8,051.0	-10,179.7	353.7	10,185.9	0.87	0.81	0.33
18,195.0	90.77	181.80	8,050.5	-10,243.7	351.7	10,249.7	0.90	0.88	0.22
LAST SVY									
18,203.9	90.77	181.80	8,050.3	-10,252.6	351.4	10,258.6	0.00	0.00	0.00
LTP @ 18203.9'MD, 100'FSL & 1020.4'FEL									
18,254.0	90.77	181.80	8,049.7	-10,302.7	349.9	10,308.6	0.00	0.00	0.00
Projection to TD @ 18254'MD, 50'FSL & 1021.7'FEL									

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									
PBHL (SRO 4 State C	-0.17	180.31	8,044.0	-10,302.6	372.6	381,947.20	573,762.30	32° 2' 59.511 N	104° 5' 42.928 W
- actual wellpath misses target center by 23.4usft at 18253.3usft MD (8049.7 TVD, -10302.0 N, 349.9 E)									
- Rectangle (sides W60.0 H10,427.0 D20.0)									
LTP (SRO 4 State Co	0.00	0.00	8,044.0	-10,252.6	372.9	381,997.20	573,762.60	32° 3' 0.006 N	104° 5' 42.923 W
- actual wellpath misses target center by 22.4usft at 18203.3usft MD (8050.4 TVD, -10252.0 N, 351.5 E)									
- Point									
FTP (SRO 4 State Co	0.00	0.00	8,073.0	123.5	428.5	392,373.30	573,818.20	32° 4' 42.693 N	104° 5' 42.011 W
- actual wellpath misses target center by 261.9usft at 7971.4usft MD (7897.8 TVD, -67.0 N, 389.0 E)									
- Point									

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
669.1	669.0	Rustler				
840.1	840.0	TOS				
2,247.5	2,247.0	BOS (Fletcher)				
2,439.5	2,439.0	LMAR (Top Delaware)				
2,478.5	2,478.0	BLCN				
3,354.6	3,350.0	CYCN				
4,565.2	4,554.0	BYCN				
6,132.0	6,118.0	Bone Sprg (BSGL)				
6,464.6	6,450.0	U Avalon Sh				
6,679.9	6,665.0	L Avalon Sh				
6,860.0	6,845.0	B Avalon Sh				
7,064.4	7,049.0	FBSG_sand				
7,751.8	7,722.0	SBSG_sand				

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)
Site:	(SRO 4 State Com) Sec-4_T-26-S_R-28-E	MD Reference:	KB @ 3020.7usft (Precision 106)
Well:	SRO 4 State Com #501H	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)	
7,572.3	7,555.0	123.4	348.7	FTP @ 7572.3'MD, 100'FNL & 1089'FEL
18,195.0	8,050.5	-10,243.7	351.7	LAST SVY
18,203.9	8,050.3	-10,252.6	351.4	LTP @ 18203.9'MD, 100'FSL & 1020.4'FEL
18,254.0	8,049.7	-10,302.7	349.9	Projection to TD @ 18254'MD, 50'FSL & 1021.7'FEL

Checked By: _____ Approved By: _____ Date: _____