

30-015-45549



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 #503H

OWB

Design: AWB

Standard Survey Report

11 March, 2019

INTREPID

Company:	Concho Resources, Inc.	Local Co-ordinate Reference:	Well SRO 4 State Com #503H
Project:	Eddy County (NAD27 NME)	TVD Reference:	KB @ 3021.2usft (Precision 106)
Site:	(SRO 4 State Com) Sec-4_T-26-S_R-28-E	MD Reference:	KB @ 3021.2usft (Precision 106)
Well:	SRO 4 State Com #503H	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	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 #503H					
Well Position	+N/-S	0.0 usft	Northing:	392,249.80 usft	Latitude:	32° 4' 41.481 N
	+E/-W	0.0 usft	Easting:	573,329.70 usft	Longitude:	104° 5' 47.692 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	2,990.2 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	12/10/18	7.03	59.83	47,646.75623263

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	184.92

Survey Program	Date 03/11/19			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	7,340.0	SDI Gyro Svys (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4
7,462.0	18,246.0	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	0.64	270.01	100.0	0.0	-0.6	0.0	0.64	0.64	0.00	
125.0	0.71	270.01	125.0	0.0	-0.9	0.1	0.28	0.28	0.00	
150.0	0.79	277.16	150.0	0.0	-1.2	0.1	0.49	0.32	28.60	
175.0	0.52	264.47	175.0	0.0	-1.5	0.1	1.22	-1.08	-50.76	
200.0	0.69	274.28	200.0	0.0	-1.7	0.1	0.79	0.68	39.24	
225.0	0.77	281.53	225.0	0.1	-2.0	0.1	0.49	0.32	29.00	
250.0	0.69	276.09	250.0	0.1	-2.4	0.1	0.42	-0.32	-21.76	
275.0	0.67	264.25	275.0	0.1	-2.6	0.1	0.57	-0.08	-47.36	
300.0	0.60	269.49	300.0	0.1	-2.9	0.1	0.36	-0.28	20.96	

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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	0.71	273.12	325.0	0.1	-3.2	0.2	0.47	0.44	14.52
350.0	0.98	269.52	350.0	0.1	-3.6	0.2	1.10	1.08	-14.40
375.0	1.20	265.51	375.0	0.1	-4.1	0.2	0.93	0.88	-16.04
400.0	1.37	265.47	400.0	0.1	-4.6	0.3	0.68	0.68	-0.16
425.0	1.51	264.20	425.0	0.0	-5.2	0.4	0.57	0.56	-5.08
450.0	1.60	267.77	450.0	0.0	-5.9	0.6	0.53	0.36	14.28
475.0	1.58	265.47	474.9	-0.1	-6.6	0.7	0.27	-0.08	-9.20
500.0	1.58	264.04	499.9	-0.1	-7.3	0.8	0.16	0.00	-5.72
525.0	1.63	262.72	524.9	-0.2	-8.0	0.9	0.25	0.20	-5.28
550.0	1.50	261.36	549.9	-0.3	-8.7	1.1	0.54	-0.52	-5.44
575.0	1.34	256.08	574.9	-0.4	-9.3	1.2	0.83	-0.64	-21.12
600.0	1.22	253.02	599.9	-0.6	-9.8	1.4	0.55	-0.48	-12.24
625.0	0.95	247.34	624.9	-0.7	-10.3	1.6	1.16	-1.08	-22.72
644.1	0.75	236.60	644.0	-0.9	-10.5	1.8	1.32	-1.03	-56.23
Rustler									
650.0	0.70	232.12	649.9	-0.9	-10.6	1.8	1.32	-0.91	-75.95
675.0	0.65	214.41	674.9	-1.1	-10.8	2.1	0.85	-0.20	-70.84
700.0	0.58	218.92	699.9	-1.3	-10.9	2.3	0.34	-0.28	18.04
725.0	0.63	224.12	724.9	-1.5	-11.1	2.5	0.30	0.20	20.80
750.0	0.60	226.44	749.9	-1.7	-11.3	2.7	0.16	-0.12	9.28
775.0	0.60	217.68	774.9	-1.9	-11.5	2.9	0.37	0.00	-35.04
800.0	0.60	213.23	799.9	-2.1	-11.6	3.1	0.19	0.00	-17.80
815.1	0.59	216.35	815.0	-2.3	-11.7	3.3	0.22	-0.04	20.63
TOS									
825.0	0.59	218.42	824.9	-2.4	-11.8	3.4	0.22	-0.03	20.96
850.0	0.39	222.48	849.9	-2.5	-11.9	3.5	0.81	-0.80	16.24
875.0	0.29	158.06	874.9	-2.6	-11.9	3.7	1.49	-0.40	-257.68
900.0	0.28	165.91	899.9	-2.8	-11.9	3.8	0.16	-0.04	31.40
925.0	0.23	170.44	924.9	-2.9	-11.9	3.9	0.22	-0.20	18.12
950.0	0.20	177.35	949.9	-3.0	-11.9	4.0	0.16	-0.12	27.64
975.0	0.22	146.11	974.9	-3.0	-11.8	4.0	0.46	0.08	-124.96
1,000.0	0.31	145.56	999.9	-3.1	-11.8	4.1	0.36	0.36	-2.20
1,025.0	0.59	89.33	1,024.9	-3.2	-11.6	4.2	1.96	1.12	-224.92
1,050.0	1.36	77.22	1,049.9	-3.1	-11.2	4.1	3.17	3.08	-48.44
1,075.0	1.71	68.75	1,074.9	-2.9	-10.6	3.8	1.66	1.40	-33.88
1,100.0	1.77	68.54	1,099.9	-2.6	-9.9	3.5	0.24	0.24	-0.84
1,125.0	1.74	66.72	1,124.8	-2.4	-9.1	3.1	0.25	-0.12	-7.28
1,150.0	1.76	66.54	1,149.8	-2.1	-8.4	2.8	0.08	0.08	-0.72
1,175.0	1.70	60.16	1,174.8	-1.7	-7.8	2.4	0.81	-0.24	-25.52
1,200.0	1.72	64.87	1,199.8	-1.4	-7.1	2.0	0.57	0.08	18.84
1,225.0	1.60	65.05	1,224.8	-1.1	-6.5	1.6	0.48	-0.48	0.72
1,250.0	1.78	63.83	1,249.8	-0.7	-5.8	1.2	0.73	0.72	-4.88
1,275.0	1.74	64.18	1,274.8	-0.4	-5.1	0.8	0.17	-0.16	1.40

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Survey										
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1,300.0	1.75	64.72	1,299.8	-0.1	-4.4	0.5	0.08	0.04	2.16	
1,325.0	1.87	64.69	1,324.8	0.3	-3.7	0.1	0.48	0.48	-0.12	
1,350.0	1.79	64.18	1,349.7	0.6	-3.0	-0.3	0.33	-0.32	-2.04	
1,375.0	1.81	69.03	1,374.7	0.9	-2.3	-0.7	0.61	0.08	19.40	
1,400.0	1.65	57.10	1,399.7	1.3	-1.6	-1.1	1.57	-0.64	-47.72	
1,425.0	1.83	63.08	1,424.7	1.6	-0.9	-1.5	1.02	0.72	23.92	
1,450.0	1.86	64.88	1,449.7	2.0	-0.2	-2.0	0.26	0.12	7.20	
1,475.0	1.73	66.61	1,474.7	2.3	0.5	-2.3	0.56	-0.52	6.92	
1,500.0	1.63	62.84	1,499.7	2.6	1.2	-2.7	0.60	-0.40	-15.08	
1,525.0	1.61	66.17	1,524.7	2.9	1.8	-3.1	0.38	-0.08	13.32	
1,550.0	1.57	64.12	1,549.6	3.2	2.4	-3.4	0.28	-0.16	-8.20	
1,575.0	1.42	67.04	1,574.6	3.5	3.0	-3.7	0.67	-0.60	11.68	
1,600.0	1.41	54.00	1,599.6	3.8	3.6	-4.1	1.29	-0.04	-52.16	
1,625.0	1.30	52.78	1,624.6	4.1	4.0	-4.5	0.45	-0.44	-4.88	
1,650.0	1.40	58.32	1,649.6	4.5	4.5	-4.8	0.66	0.40	22.16	
1,675.0	1.49	58.68	1,674.6	4.8	5.1	-5.2	0.36	0.36	1.44	
1,700.0	1.42	54.13	1,699.6	5.1	5.6	-5.6	0.54	-0.28	-18.20	
1,725.0	1.56	58.30	1,724.6	5.5	6.1	-6.0	0.71	0.56	16.68	
1,750.0	1.72	59.07	1,749.6	5.9	6.7	-6.4	0.65	0.64	3.08	
1,775.0	2.01	64.33	1,774.6	6.3	7.5	-6.9	1.35	1.16	21.04	
1,800.0	2.19	68.95	1,799.6	6.6	8.3	-7.3	0.99	0.72	18.48	
1,825.0	2.36	73.27	1,824.5	6.9	9.2	-7.7	0.97	0.68	17.28	
1,850.0	2.24	76.50	1,849.5	7.2	10.2	-8.1	0.71	-0.48	12.92	
1,875.0	1.96	85.35	1,874.5	7.4	11.1	-8.3	1.71	-1.12	35.40	
1,900.0	1.65	102.99	1,899.5	7.3	11.9	-8.3	2.53	-1.24	70.56	
1,925.0	1.32	109.57	1,924.5	7.1	12.5	-8.2	1.48	-1.32	26.32	
1,950.0	1.04	122.73	1,949.5	6.9	13.0	-8.0	1.55	-1.12	52.64	
1,975.0	0.44	170.85	1,974.5	6.7	13.2	-7.8	3.26	-2.40	192.48	
2,000.0	0.55	239.55	1,999.5	6.5	13.1	-7.6	2.26	0.44	274.80	
2,025.0	0.69	244.20	2,024.5	6.4	12.9	-7.5	0.59	0.56	18.60	
2,050.0	0.57	230.82	2,049.5	6.3	12.6	-7.3	0.76	-0.48	-53.52	
2,075.0	0.41	206.15	2,074.5	6.1	12.5	-7.2	1.05	-0.64	-98.68	
2,100.0	0.40	160.92	2,099.5	5.9	12.5	-7.0	1.25	-0.04	-180.92	
2,125.0	0.61	117.37	2,124.5	5.8	12.6	-6.9	1.69	0.84	-174.20	
2,150.0	1.26	108.57	2,149.5	5.7	13.0	-6.7	2.66	2.60	-35.20	
2,175.0	1.38	107.90	2,174.5	5.5	13.5	-6.6	0.48	0.48	-2.68	
2,200.0	1.44	105.53	2,199.4	5.3	14.1	-6.5	0.33	0.24	-9.48	
2,222.6	1.53	108.11	2,222.0	5.1	14.7	-6.4	0.50	0.40	11.43	
BOS (Fletcher)										
2,225.0	1.54	108.37	2,224.4	5.1	14.8	-6.4	0.50	0.41	10.69	
2,250.0	0.54	106.79	2,249.4	5.0	15.2	-6.3	4.00	-4.00	-6.32	
2,275.0	0.35	163.97	2,274.4	4.9	15.3	-6.2	1.83	-0.76	228.72	
2,300.0	0.46	214.13	2,299.4	4.7	15.3	-6.0	1.43	0.44	200.64	
2,325.0	0.60	242.68	2,324.4	4.6	15.1	-5.8	1.18	0.56	114.20	

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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)	
2,350.0	0.59	234.16	2,349.4	4.4	14.9	-5.7	0.36	-0.04	-34.08	
2,375.0	0.59	237.61	2,374.4	4.3	14.7	-5.5	0.14	0.00	13.80	
2,400.0	0.66	235.00	2,399.4	4.1	14.5	-5.4	0.30	0.28	-10.44	
2,414.6	0.62	239.83	2,414.0	4.0	14.3	-5.3	0.47	-0.29	33.17	
LMAR (Top Delaware)										
2,425.0	0.59	243.70	2,424.4	4.0	14.2	-5.2	0.47	-0.26	37.08	
2,450.0	0.65	237.82	2,449.4	3.9	14.0	-5.0	0.35	0.24	-23.52	
2,453.6	0.65	238.44	2,453.0	3.8	14.0	-5.0	0.22	-0.09	17.46	
BLCN										
2,475.0	0.63	242.25	2,474.4	3.7	13.7	-4.9	0.21	-0.08	17.76	
2,500.0	0.67	242.80	2,499.4	3.6	13.5	-4.7	0.16	0.16	2.20	
2,525.0	0.80	248.55	2,524.4	3.5	13.2	-4.6	0.60	0.52	23.00	
2,550.0	2.33	278.50	2,549.4	3.5	12.5	-4.5	6.74	6.12	119.80	
2,575.0	3.35	281.63	2,574.4	3.7	11.3	-4.6	4.13	4.08	12.52	
2,600.0	3.51	281.99	2,599.3	4.0	9.9	-4.8	0.65	0.64	1.44	
2,625.0	3.45	284.11	2,624.3	4.3	8.4	-5.0	0.57	-0.24	8.48	
2,650.0	3.59	282.93	2,649.2	4.7	6.9	-5.3	0.63	0.56	-4.72	
2,675.0	3.53	283.54	2,674.2	5.1	5.4	-5.5	0.28	-0.24	2.44	
2,700.0	3.93	283.98	2,699.1	5.4	3.8	-5.7	1.60	1.60	1.76	
2,725.0	4.37	285.13	2,724.1	5.9	2.0	-6.0	1.79	1.76	4.60	
2,750.0	4.80	286.61	2,749.0	6.4	0.1	-6.4	1.78	1.72	5.92	
2,775.0	5.27	287.56	2,773.9	7.1	-2.0	-6.9	1.91	1.88	3.80	
2,800.0	6.57	287.27	2,798.8	7.9	-4.4	-7.4	5.20	5.20	-1.16	
2,825.0	7.70	287.42	2,823.6	8.8	-7.4	-8.1	4.52	4.52	0.60	
2,850.0	8.41	287.67	2,848.3	9.8	-10.7	-8.9	2.84	2.84	1.00	
2,875.0	8.04	286.68	2,873.1	10.9	-14.2	-9.6	1.58	-1.48	-3.96	
2,900.0	8.32	285.86	2,897.8	11.9	-17.6	-10.3	1.21	1.12	-3.28	
2,925.0	8.29	285.73	2,922.5	12.9	-21.0	-11.0	0.14	-0.12	-0.52	
2,950.0	8.59	284.61	2,947.3	13.8	-24.6	-11.7	1.37	1.20	-4.48	
2,975.0	8.68	283.73	2,972.0	14.8	-28.2	-12.3	0.64	0.36	-3.52	
3,000.0	9.09	282.55	2,996.7	15.6	-32.0	-12.8	1.79	1.64	-4.72	
3,025.0	9.10	281.03	3,021.4	16.4	-35.9	-13.3	0.96	0.04	-6.08	
3,050.0	9.28	281.05	3,046.1	17.2	-39.8	-13.7	0.72	0.72	0.08	
3,075.0	9.36	280.61	3,070.7	18.0	-43.8	-14.1	0.43	0.32	-1.76	
3,100.0	9.36	280.60	3,095.4	18.7	-47.7	-14.5	0.01	0.00	-0.04	
3,125.0	9.30	280.24	3,120.1	19.4	-51.7	-14.9	0.33	-0.24	-1.44	
3,150.0	9.32	280.23	3,144.7	20.2	-55.7	-15.3	0.08	0.08	-0.04	
3,175.0	8.67	275.41	3,169.4	20.7	-59.6	-15.5	3.98	-2.60	-19.28	
3,200.0	8.23	272.04	3,194.2	20.9	-63.2	-15.4	2.65	-1.76	-13.48	
3,225.0	8.17	270.93	3,218.9	21.0	-66.8	-15.2	0.68	-0.24	-4.44	
3,250.0	8.16	271.41	3,243.6	21.1	-70.4	-15.0	0.28	-0.04	1.92	
3,275.0	8.10	271.22	3,268.4	21.2	-73.9	-14.8	0.26	-0.24	-0.76	
3,300.0	7.99	271.26	3,293.1	21.3	-77.4	-14.5	0.44	-0.44	0.16	

Company:	Concho Resources, Inc.	Local Co-ordinate Reference:	Well SRO 4 State Com #503H
Project:	Eddy County (NAD27 NME)	TVD Reference:	KB @ 3021.2usft (Precision 106)
Site:	(SRO 4 State Com) Sec-4_T-26-S_R-28-E	MD Reference:	KB @ 3021.2usft (Precision 106)
Well:	SRO 4 State Com #503H	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	8.01	270.99	3,317.9	21.3	-80.9	-14.3	0.17	0.08	-1.08
3,332.2	8.03	270.94	3,325.0	21.3	-81.9	-14.2	0.30	0.28	-0.72
CYCN									
3,350.0	8.08	270.81	3,342.7	21.4	-84.4	-14.1	0.30	0.28	-0.72
3,375.0	8.14	270.98	3,367.4	21.4	-87.9	-13.8	0.26	0.24	0.68
3,400.0	8.26	271.26	3,392.2	21.5	-91.5	-13.6	0.51	0.48	1.12
3,425.0	8.14	271.02	3,416.9	21.6	-95.0	-13.3	0.50	-0.48	-0.96
3,450.0	8.25	272.02	3,441.6	21.7	-98.6	-13.1	0.72	0.44	4.00
3,475.0	8.13	273.07	3,466.4	21.8	-102.1	-13.0	0.77	-0.48	4.20
3,500.0	8.07	272.93	3,491.1	22.0	-105.7	-12.9	0.25	-0.24	-0.56
3,525.0	7.95	275.70	3,515.9	22.3	-109.1	-12.8	1.62	-0.48	11.08
3,550.0	7.33	281.58	3,540.7	22.8	-112.4	-13.0	3.99	-2.48	23.52
3,575.0	7.04	286.07	3,565.5	23.5	-115.5	-13.5	2.53	-1.16	17.96
3,600.0	7.04	288.10	3,590.3	24.4	-118.4	-14.2	1.00	0.00	8.12
3,625.0	7.09	287.24	3,615.1	25.4	-121.3	-14.8	0.47	0.20	-3.44
3,650.0	7.13	287.26	3,639.9	26.3	-124.3	-15.5	0.16	0.16	0.08
3,675.0	7.10	288.46	3,664.7	27.2	-127.2	-16.2	0.61	-0.12	4.80
3,700.0	7.06	288.51	3,689.5	28.2	-130.1	-16.9	0.16	-0.16	0.20
3,725.0	7.20	288.29	3,714.3	29.2	-133.1	-17.6	0.57	0.56	-0.88
3,750.0	7.15	288.56	3,739.1	30.2	-136.0	-18.4	0.24	-0.20	1.08
3,775.0	7.26	288.45	3,763.9	31.2	-139.0	-19.1	0.44	0.44	-0.44
3,800.0	7.26	288.78	3,788.7	32.2	-142.0	-19.9	0.17	0.00	1.32
3,825.0	7.36	288.58	3,813.5	33.2	-145.0	-20.6	0.41	0.40	-0.80
3,850.0	7.31	288.43	3,838.3	34.2	-148.1	-21.4	0.21	-0.20	-0.60
3,875.0	7.44	288.54	3,863.1	35.2	-151.1	-22.1	0.52	0.52	0.44
3,900.0	7.41	288.52	3,887.9	36.2	-154.2	-22.9	0.12	-0.12	-0.08
3,925.0	7.01	288.55	3,912.7	37.2	-157.1	-23.6	1.60	-1.60	0.12
3,950.0	6.46	289.65	3,937.5	38.2	-159.9	-24.3	2.26	-2.20	4.40
3,975.0	6.36	288.84	3,962.4	39.1	-162.5	-25.0	0.54	-0.40	-3.24
4,000.0	5.41	288.62	3,987.3	39.9	-165.0	-25.6	4.17	-3.80	-16.88
4,025.0	4.38	271.16	4,012.2	40.2	-167.1	-25.7	6.14	-4.12	-53.84
4,050.0	4.26	264.26	4,037.1	40.1	-169.0	-25.5	2.13	-0.48	-27.60
4,075.0	4.15	261.61	4,062.0	39.9	-170.8	-25.1	0.89	-0.44	-10.60
4,100.0	4.16	261.14	4,087.0	39.6	-172.6	-24.7	0.14	0.04	-1.88
4,125.0	4.14	260.49	4,111.9	39.3	-174.4	-24.2	0.20	-0.08	-2.60
4,150.0	4.23	259.81	4,136.8	39.0	-176.2	-23.7	0.41	0.36	-2.72
4,175.0	4.27	259.89	4,161.8	38.7	-178.0	-23.3	0.16	0.16	0.32
4,200.0	4.28	258.95	4,186.7	38.3	-179.8	-22.8	0.28	0.04	-3.76
4,225.0	4.12	258.77	4,211.6	38.0	-181.6	-22.3	0.64	-0.64	-0.72
4,250.0	4.18	258.59	4,236.6	37.6	-183.4	-21.8	0.25	0.24	-0.72
4,275.0	4.23	261.94	4,261.5	37.3	-185.2	-21.3	1.00	0.20	13.40
4,300.0	4.07	271.27	4,286.4	37.2	-187.0	-21.0	2.77	-0.64	37.32
4,325.0	4.38	279.60	4,311.4	37.4	-188.8	-21.1	2.75	1.24	33.32
4,350.0	4.83	283.07	4,336.3	37.8	-190.8	-21.3	2.12	1.80	13.88

Company:	Concho Resources, Inc.	Local Co-ordinate Reference:	Well SRO 4 State Com #503H
Project:	Eddy County (NAD27 NME)	TVD Reference:	KB @ 3021.2usft (Precision 106)
Site:	(SRO 4 State Com) Sec-4_T-26-S_R-28-E	MD Reference:	KB @ 3021.2usft (Precision 106)
Well:	SRO 4 State Com #503H	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	4.46	282.65	4,361.2	38.2	-192.8	-21.6	1.49	-1.48	-1.68
4,400.0	4.41	282.83	4,386.1	38.7	-194.6	-21.8	0.21	-0.20	0.72
4,425.0	4.34	282.10	4,411.0	39.1	-196.5	-22.1	0.36	-0.28	-2.92
4,450.0	4.35	281.28	4,436.0	39.5	-198.4	-22.3	0.25	0.04	-3.28
4,475.0	4.49	283.92	4,460.9	39.9	-200.2	-22.6	0.99	0.56	10.56
4,500.0	4.47	282.29	4,485.8	40.3	-202.1	-22.8	0.52	-0.08	-6.52
4,525.0	4.51	282.88	4,510.7	40.7	-204.1	-23.1	0.24	0.16	2.36
4,543.3	4.47	282.51	4,529.0	41.1	-205.4	-23.3	0.25	-0.20	-1.99
BYCN									
4,550.0	4.46	282.38	4,535.7	41.2	-206.0	-23.4	0.25	-0.20	-2.02
4,575.0	4.50	282.74	4,560.6	41.6	-207.9	-23.6	0.20	0.16	1.44
4,600.0	4.48	280.67	4,585.5	42.0	-209.8	-23.8	0.65	-0.08	-8.28
4,625.0	4.45	280.77	4,610.4	42.4	-211.7	-24.0	0.12	-0.12	0.40
4,650.0	4.63	279.29	4,635.4	42.7	-213.6	-24.2	0.86	0.72	-5.92
4,675.0	4.48	278.59	4,660.3	43.0	-215.6	-24.4	0.64	-0.60	-2.80
4,700.0	4.52	278.88	4,685.2	43.3	-217.5	-24.5	0.18	0.16	1.16
4,725.0	4.50	279.20	4,710.1	43.6	-219.5	-24.6	0.13	-0.08	1.28
4,750.0	4.55	277.46	4,735.1	43.9	-221.4	-24.7	0.58	0.20	-6.96
4,775.0	4.52	276.36	4,760.0	44.1	-223.4	-24.8	0.37	-0.12	-4.40
4,800.0	4.28	275.24	4,784.9	44.3	-225.3	-24.8	1.02	-0.96	-4.48
4,825.0	4.27	275.00	4,809.8	44.5	-227.2	-24.8	0.08	-0.04	-0.96
4,850.0	4.44	274.37	4,834.8	44.7	-229.1	-24.8	0.71	0.68	-2.52
4,875.0	4.43	272.55	4,859.7	44.8	-231.0	-24.8	0.56	-0.04	-7.28
4,900.0	4.37	273.88	4,884.6	44.9	-232.9	-24.7	0.47	-0.24	5.32
4,925.0	4.28	272.53	4,909.5	45.0	-234.8	-24.7	0.54	-0.36	-5.40
4,950.0	4.20	271.80	4,934.5	45.1	-236.6	-24.6	0.39	-0.32	-2.92
4,975.0	4.20	270.58	4,959.4	45.1	-238.5	-24.5	0.36	0.00	-4.88
5,000.0	4.13	269.41	4,984.3	45.1	-240.3	-24.3	0.44	-0.28	-4.68
5,025.0	4.03	269.25	5,009.3	45.1	-242.1	-24.1	0.40	-0.40	-0.64
5,050.0	4.05	268.84	5,034.2	45.0	-243.8	-24.0	0.14	0.08	-1.64
5,075.0	4.15	267.80	5,059.1	45.0	-245.6	-23.8	0.50	0.40	-4.16
5,100.0	4.03	266.94	5,084.1	44.9	-247.4	-23.5	0.54	-0.48	-3.44
5,125.0	4.16	266.62	5,109.0	44.8	-249.2	-23.3	0.53	0.52	-1.28
5,150.0	4.07	265.82	5,134.0	44.7	-251.0	-23.0	0.43	-0.36	-3.20
5,175.0	4.22	266.84	5,158.9	44.6	-252.8	-22.7	0.67	0.60	4.08
5,200.0	4.17	267.31	5,183.8	44.5	-254.6	-22.5	0.24	-0.20	1.88
5,225.0	4.26	268.54	5,208.8	44.4	-256.4	-22.3	0.51	0.36	4.92
5,250.0	4.79	272.55	5,233.7	44.4	-258.4	-22.1	2.47	2.12	16.04
5,275.0	4.96	275.79	5,258.6	44.6	-260.5	-22.1	1.29	0.68	12.96
5,300.0	5.06	276.40	5,283.5	44.8	-262.7	-22.1	0.45	0.40	2.44
5,325.0	5.09	285.13	5,308.4	45.2	-264.8	-22.4	3.09	0.12	34.92
5,350.0	5.26	293.86	5,333.3	46.0	-267.0	-22.9	3.22	0.68	34.92
5,375.0	5.25	297.96	5,358.2	47.0	-269.0	-23.7	1.50	-0.04	16.40

Company:	Concho Resources, Inc.	Local Co-ordinate Reference:	Well SRO 4 State Com #503H
Project:	Eddy County (NAD27 NME)	TVD Reference:	KB @ 3021.2usft (Precision 106)
Site:	(SRO 4 State Com) Sec-4_T-26-S_R-28-E	MD Reference:	KB @ 3021.2usft (Precision 106)
Well:	SRO 4 State Com #503H	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	5.05	299.42	5,383.1	48.1	-271.0	-24.6	0.96	-0.80	5.84
5,425.0	5.09	299.55	5,408.0	49.2	-272.9	-25.6	0.17	0.16	0.52
5,450.0	4.84	300.53	5,432.9	50.2	-274.8	-26.5	1.06	-1.00	3.92
5,475.0	5.02	299.12	5,457.8	51.3	-276.6	-27.4	0.87	0.72	-5.64
5,500.0	5.06	299.71	5,482.7	52.4	-278.6	-28.3	0.26	0.16	2.36
5,525.0	4.97	300.01	5,507.6	53.5	-280.5	-29.2	0.37	-0.36	1.20
5,550.0	4.94	299.97	5,532.5	54.6	-282.3	-30.1	0.12	-0.12	-0.16
5,575.0	4.87	300.63	5,557.4	55.6	-284.2	-31.0	0.36	-0.28	2.64
5,600.0	4.80	300.13	5,582.3	56.7	-286.0	-32.0	0.33	-0.28	-2.00
5,625.0	4.75	300.36	5,607.2	57.7	-287.8	-32.8	0.21	-0.20	0.92
5,650.0	4.76	300.21	5,632.2	58.8	-289.6	-33.7	0.06	0.04	-0.60
5,675.0	4.49	298.05	5,657.1	59.8	-291.3	-34.6	1.29	-1.08	-8.64
5,700.0	3.46	291.57	5,682.0	60.5	-292.9	-35.2	4.49	-4.12	-25.92
5,725.0	2.67	281.65	5,707.0	60.9	-294.2	-35.4	3.79	-3.16	-39.68
5,750.0	2.40	275.77	5,732.0	61.1	-295.3	-35.5	1.50	-1.08	-23.52
5,775.0	2.44	276.10	5,756.9	61.2	-296.3	-35.5	0.17	0.16	1.32
5,800.0	2.36	274.89	5,781.9	61.3	-297.4	-35.5	0.38	-0.32	-4.84
5,825.0	2.36	276.46	5,806.9	61.4	-298.4	-35.6	0.26	0.00	6.28
5,850.0	2.23	273.36	5,831.9	61.5	-299.4	-35.6	0.72	-0.52	-12.40
5,875.0	2.25	273.84	5,856.9	61.5	-300.4	-35.5	0.11	0.08	1.92
5,900.0	2.29	271.90	5,881.8	61.6	-301.3	-35.5	0.35	0.16	-7.76
5,925.0	2.24	270.86	5,906.8	61.6	-302.3	-35.4	0.26	-0.20	-4.16
5,950.0	2.13	270.25	5,931.8	61.6	-303.3	-35.4	0.45	-0.44	-2.44
5,975.0	1.99	275.86	5,956.8	61.7	-304.2	-35.3	0.98	-0.56	22.44
6,000.0	1.92	280.29	5,981.8	61.8	-305.0	-35.4	0.67	-0.28	17.72
6,025.0	2.01	280.04	6,006.8	61.9	-305.9	-35.5	0.36	0.36	-1.00
6,050.0	2.16	279.68	6,031.7	62.1	-306.8	-35.5	0.60	0.60	-1.44
6,075.0	2.57	278.20	6,056.7	62.3	-307.8	-35.6	1.66	1.64	-5.92
6,100.0	3.16	274.24	6,081.7	62.4	-309.0	-35.6	2.49	2.36	-15.84
6,111.3	3.32	274.35	6,093.0	62.4	-309.7	-35.6	1.40	1.40	0.93
Bone Sprg (BSGL)									
6,125.0	3.51	274.46	6,106.6	62.5	-310.5	-35.6	1.40	1.40	0.84
6,150.0	3.81	275.88	6,131.6	62.6	-312.1	-35.6	1.25	1.20	5.68
6,175.0	4.25	279.66	6,156.5	62.9	-313.8	-35.7	2.05	1.76	15.12
6,200.0	4.27	279.72	6,181.5	63.2	-315.6	-35.9	0.08	0.08	0.24
6,225.0	4.10	276.86	6,206.4	63.5	-317.4	-36.0	1.08	-0.68	-11.44
6,250.0	3.78	271.02	6,231.3	63.6	-319.2	-36.0	2.05	-1.28	-23.36
6,275.0	3.43	267.85	6,256.3	63.6	-320.7	-35.8	1.61	-1.40	-12.68
6,300.0	3.30	265.75	6,281.2	63.5	-322.2	-35.6	0.72	-0.52	-8.40
6,325.0	3.09	263.46	6,306.2	63.3	-323.6	-35.4	0.98	-0.84	-9.16
6,350.0	3.02	261.33	6,331.2	63.2	-324.9	-35.1	0.53	-0.28	-8.52
6,375.0	3.08	258.98	6,356.1	62.9	-326.2	-34.7	0.55	0.24	-9.40
6,400.0	2.91	254.70	6,381.1	62.7	-327.5	-34.3	1.12	-0.68	-17.12
6,425.0	3.03	257.97	6,406.1	62.3	-328.7	-33.9	0.83	0.48	13.08

Company:	Concho Resources, Inc.	Local Co-ordinate Reference:	Well SRO 4 State Com #503H
Project:	Eddy County (NAD27 NME)	TVD Reference:	KB @ 3021.2usft (Precision 106)
Site:	(SRO 4 State Com) Sec-4_T-26-S_R-28-E	MD Reference:	KB @ 3021.2usft (Precision 106)
Well:	SRO 4 State Com #503H	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)	
6,444.0	3.54	266.27	6,425.0	62.2	-329.8	-33.7	3.69	2.71	43.79	
U Avalon Sh										
6,450.0	3.72	268.42	6,431.0	62.2	-330.2	-33.6	3.69	2.92	35.56	
6,475.0	3.63	266.02	6,456.0	62.1	-331.8	-33.4	0.71	-0.36	-9.60	
6,500.0	4.09	267.19	6,480.9	62.0	-333.5	-33.2	1.87	1.84	4.68	
6,525.0	4.41	269.20	6,505.8	62.0	-335.3	-33.0	1.41	1.28	8.04	
6,550.0	5.11	271.26	6,530.8	62.0	-337.4	-32.8	2.88	2.80	8.24	
6,575.0	5.24	269.93	6,555.7	62.0	-339.7	-32.6	0.71	0.52	-5.32	
6,600.0	5.21	271.57	6,580.6	62.0	-341.9	-32.4	0.61	-0.12	6.56	
6,625.0	5.26	273.66	6,605.4	62.1	-344.2	-32.4	0.79	0.20	8.36	
6,650.0	4.99	274.11	6,630.3	62.3	-346.4	-32.3	1.09	-1.08	1.80	
6,659.7	4.94	273.79	6,640.0	62.3	-347.3	-32.3	0.63	-0.56	-3.26	
L Avalon Sh										
6,675.0	4.85	273.28	6,655.3	62.4	-348.6	-32.3	0.63	-0.56	-3.36	
6,700.0	4.86	275.13	6,680.2	62.6	-350.7	-32.2	0.63	0.04	7.40	
6,725.0	4.94	277.83	6,705.1	62.8	-352.8	-32.3	0.98	0.32	10.80	
6,750.0	4.73	277.59	6,730.0	63.1	-354.9	-32.4	0.84	-0.84	-0.96	
6,775.0	4.88	278.62	6,754.9	63.4	-357.0	-32.5	0.69	0.60	4.12	
6,800.0	4.61	278.99	6,779.8	63.7	-359.0	-32.7	1.09	-1.08	1.48	
6,825.0	4.42	277.46	6,804.7	64.0	-361.0	-32.8	0.90	-0.76	-6.12	
6,840.3	4.34	278.18	6,820.0	64.1	-362.1	-32.8	0.63	-0.52	4.70	
B Avalon Sh										
6,850.0	4.29	278.65	6,829.7	64.2	-362.8	-32.9	0.63	-0.52	4.85	
6,875.0	4.32	272.44	6,854.6	64.4	-364.7	-32.9	1.87	0.12	-24.84	
6,900.0	4.85	275.13	6,879.5	64.6	-366.7	-32.9	2.29	2.12	10.76	
6,925.0	5.89	277.10	6,904.4	64.8	-369.0	-32.9	4.22	4.16	7.88	
6,950.0	5.91	276.73	6,929.3	65.1	-371.6	-33.0	0.17	0.08	-1.48	
6,975.0	5.73	278.21	6,954.1	65.5	-374.1	-33.1	0.94	-0.72	5.92	
7,000.0	5.33	279.40	6,979.0	65.8	-376.5	-33.3	1.66	-1.60	4.76	
7,025.0	4.94	280.68	7,003.9	66.2	-378.7	-33.5	1.63	-1.56	5.12	
7,045.1	4.83	281.55	7,024.0	66.5	-380.4	-33.7	0.67	-0.56	4.34	
FBSG_sand										
7,050.0	4.80	281.77	7,028.8	66.6	-380.8	-33.7	0.67	-0.56	4.46	
7,075.0	4.62	281.44	7,053.7	67.0	-382.8	-33.9	0.73	-0.72	-1.32	
7,100.0	4.51	281.38	7,078.7	67.4	-384.7	-34.2	0.44	-0.44	-0.24	
7,125.0	4.51	281.37	7,103.6	67.8	-386.6	-34.4	0.00	0.00	-0.04	
7,150.0	4.30	280.19	7,128.5	68.2	-388.5	-34.6	0.91	-0.84	-4.72	
7,175.0	4.26	279.68	7,153.4	68.5	-390.4	-34.8	0.22	-0.16	-2.04	
7,200.0	4.18	278.95	7,178.4	68.8	-392.2	-34.9	0.39	-0.32	-2.92	
7,225.0	4.09	279.75	7,203.3	69.1	-394.0	-35.0	0.43	-0.36	3.20	
7,250.0	3.80	280.70	7,228.3	69.4	-395.7	-35.2	1.19	-1.16	3.80	
7,275.0	4.11	286.32	7,253.2	69.8	-397.3	-35.5	1.98	1.24	22.48	
7,300.0	3.96	287.63	7,278.1	70.3	-399.0	-35.8	0.70	-0.60	5.24	
7,325.0	4.38	292.84	7,303.1	70.9	-400.7	-36.3	2.26	1.68	20.84	

Company:	Concho Resources, Inc.	Local Co-ordinate Reference:	Well SRO 4 State Com #503H
Project:	Eddy County (NAD27 NME)	TVD Reference:	KB @ 3021.2usft (Precision 106)
Site:	(SRO 4 State Com) Sec-4_T-26-S_R-28-E	MD Reference:	KB @ 3021.2usft (Precision 106)
Well:	SRO 4 State Com #503H	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)
7,340.0	4.09	292.16	7,318.0	71.4	-401.7	-36.6	1.96	-1.93	-4.53
7,462.0	2.81	262.07	7,439.8	72.6	-408.7	-37.3	1.78	-1.05	-24.66
7,492.0	5.79	235.05	7,469.7	71.6	-410.7	-36.1	11.75	9.93	-90.07
7,523.0	9.51	229.39	7,500.4	69.1	-413.9	-33.3	12.23	12.00	-18.26
7,554.0	13.09	228.31	7,530.8	65.1	-418.5	-28.9	11.57	11.55	-3.48
7,586.0	17.14	227.05	7,561.7	59.4	-424.6	-22.8	12.70	12.66	-3.94
7,618.0	19.75	223.74	7,592.1	52.3	-431.8	-15.1	8.79	8.16	-10.34
7,650.0	21.96	216.85	7,622.0	43.6	-439.2	-5.8	10.31	6.91	-21.53
7,680.0	24.31	214.20	7,649.6	34.0	-446.0	4.4	8.57	7.83	-8.83
7,712.0	26.89	212.11	7,678.4	22.4	-453.6	16.6	8.54	8.06	-6.53
7,733.0	28.81	212.18	7,697.0	14.1	-458.8	25.3	9.16	9.16	0.33
SBSG_sand									
7,743.0	29.73	212.21	7,705.7	10.0	-461.4	29.6	9.16	9.16	0.30
7,773.0	32.48	212.01	7,731.4	-3.1	-469.6	43.4	9.17	9.17	-0.67
7,804.0	33.10	209.09	7,757.5	-17.6	-478.1	58.5	5.48	2.00	-9.42
7,835.0	35.26	208.03	7,783.1	-32.9	-486.5	74.5	7.23	6.97	-3.42
7,866.0	38.16	207.29	7,808.0	-49.3	-495.1	91.6	9.46	9.35	-2.39
7,897.0	40.45	205.43	7,831.9	-66.9	-503.8	109.9	8.31	7.39	-6.00
7,928.0	42.87	203.90	7,855.1	-85.6	-512.4	129.3	8.47	7.81	-4.94
7,959.0	45.97	202.68	7,877.2	-105.5	-520.9	149.8	10.37	10.00	-3.94
7,991.0	49.23	201.42	7,898.8	-127.4	-529.8	172.4	10.59	10.19	-3.94
8,022.0	51.63	199.76	7,918.6	-149.8	-538.2	195.4	8.77	7.74	-5.35
8,053.0	55.89	200.00	7,936.9	-173.3	-546.7	219.6	13.76	13.74	0.77
8,084.0	59.77	201.16	7,953.4	-197.9	-555.9	244.8	12.91	12.52	3.74
8,115.0	63.37	200.97	7,968.1	-223.3	-565.7	271.0	11.63	11.61	-0.61
8,146.0	68.75	200.14	7,980.7	-249.8	-575.7	298.3	17.53	17.35	-2.68
8,178.0	73.03	198.46	7,991.2	-278.4	-585.6	327.6	14.26	13.38	-5.25
8,208.0	76.61	196.97	7,999.1	-305.9	-594.5	355.8	12.86	11.93	-4.97
8,239.0	80.50	194.94	8,005.2	-335.1	-602.8	385.6	14.09	12.55	-6.55
8,270.0	80.73	194.52	8,010.3	-364.7	-610.6	415.8	1.53	0.74	-1.35
8,301.0	81.13	194.24	8,015.1	-394.4	-618.2	446.0	1.57	1.29	-0.90
8,332.0	81.32	194.74	8,019.9	-424.0	-625.8	476.2	1.71	0.61	1.61
8,364.0	83.11	195.17	8,024.2	-454.7	-634.0	507.4	5.75	5.59	1.34
8,394.0	85.58	194.86	8,027.2	-483.5	-641.8	536.8	8.30	8.23	-1.03
8,457.0	87.01	195.64	8,031.2	-544.2	-658.3	598.6	2.58	2.27	1.24
8,530.0	87.69	195.51	8,034.6	-614.4	-677.9	670.3	0.95	0.93	-0.18
8,623.0	90.32	195.61	8,036.2	-704.0	-702.8	761.7	2.83	2.83	0.11
8,716.0	89.76	196.40	8,036.2	-793.4	-728.5	852.9	1.04	-0.60	0.85
8,810.0	88.42	196.55	8,037.7	-883.5	-755.1	945.0	1.43	-1.43	0.16
8,903.0	89.82	196.85	8,039.1	-972.6	-781.8	1,036.1	1.54	1.51	0.32
8,997.0	89.54	197.05	8,039.6	-1,062.5	-809.2	1,128.0	0.37	-0.30	0.21
9,092.0	86.26	192.20	8,043.1	-1,154.3	-833.2	1,221.5	6.16	-3.45	-5.11
9,184.0	85.98	187.19	8,049.3	-1,244.7	-848.7	1,313.0	5.44	-0.30	-5.45

Company:	Concho Resources, Inc.	Local Co-ordinate Reference:	Well SRO 4 State Com #503H
Project:	Eddy County (NAD27 NME)	TVD Reference:	KB @ 3021.2usft (Precision 106)
Site:	(SRO 4 State Com) Sec-4_T-26-S_R-28-E	MD Reference:	KB @ 3021.2usft (Precision 106)
Well:	SRO 4 State Com #503H	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)	
9,277.0	88.22	181.08	8,054.0	-1,337.3	-855.3	1,405.8	6.99	2.41	-6.57	
9,370.0	90.21	178.60	8,055.3	-1,430.3	-855.1	1,498.4	3.42	2.14	-2.67	
9,463.0	92.54	179.42	8,053.1	-1,523.3	-853.5	1,590.9	2.66	2.51	0.88	
9,557.0	91.30	179.66	8,049.9	-1,617.2	-852.7	1,684.4	1.34	-1.32	0.26	
9,650.0	92.48	179.66	8,046.9	-1,710.2	-852.2	1,777.0	1.27	1.27	0.00	
9,742.0	90.99	180.59	8,044.1	-1,802.1	-852.4	1,868.6	1.91	-1.62	1.01	
9,837.0	92.68	181.19	8,041.0	-1,897.0	-853.8	1,963.3	1.89	1.78	0.63	
9,930.0	91.81	180.55	8,037.4	-1,990.0	-855.3	2,056.0	1.16	-0.94	-0.69	
10,022.0	88.56	178.62	8,037.1	-2,081.9	-854.6	2,147.6	4.11	-3.53	-2.10	
10,117.0	90.85	178.37	8,037.6	-2,176.9	-852.1	2,242.0	2.42	2.41	-0.26	
10,210.0	88.75	178.26	8,037.9	-2,269.9	-849.4	2,334.4	2.26	-2.26	-0.12	
10,302.0	89.73	178.10	8,039.1	-2,361.8	-846.4	2,425.7	1.08	1.07	-0.17	
10,395.0	88.92	179.97	8,040.2	-2,454.8	-844.9	2,518.2	2.19	-0.87	2.01	
10,488.0	91.11	180.38	8,040.2	-2,547.8	-845.2	2,610.9	2.40	2.35	0.44	
10,582.0	90.38	178.97	8,039.0	-2,641.8	-844.6	2,704.5	1.69	-0.78	-1.50	
10,675.0	92.20	178.83	8,036.9	-2,734.7	-842.8	2,796.9	1.96	1.96	-0.15	
10,768.0	90.18	179.59	8,034.9	-2,827.7	-841.6	2,889.5	2.32	-2.17	0.82	
10,863.0	91.02	180.21	8,034.0	-2,922.7	-841.4	2,984.1	1.10	0.88	0.65	
10,956.0	89.87	180.35	8,033.2	-3,015.7	-841.8	3,076.8	1.25	-1.24	0.15	
11,048.0	88.59	180.18	8,034.5	-3,107.6	-842.3	3,168.5	1.40	-1.39	-0.18	
11,140.0	89.82	180.16	8,035.7	-3,199.6	-842.5	3,260.1	1.34	1.34	-0.02	
11,233.0	89.40	179.95	8,036.4	-3,292.6	-842.6	3,352.8	0.50	-0.45	-0.23	
11,327.0	88.11	180.44	8,038.4	-3,386.6	-843.0	3,446.4	1.47	-1.37	0.52	
11,420.0	89.40	180.34	8,040.4	-3,479.6	-843.6	3,539.1	1.39	1.39	-0.11	
11,513.0	91.30	181.02	8,039.9	-3,572.6	-844.7	3,631.9	2.17	2.04	0.73	
11,607.0	90.24	181.95	8,038.6	-3,666.5	-847.1	3,725.7	1.50	-1.13	0.99	
11,701.0	91.83	182.34	8,036.9	-3,760.4	-850.6	3,819.6	1.74	1.69	0.41	
11,794.0	89.99	182.20	8,035.4	-3,853.4	-854.3	3,912.4	1.98	-1.98	-0.15	
11,886.0	88.30	181.30	8,036.8	-3,945.3	-857.1	4,004.3	2.08	-1.84	-0.98	
11,980.0	88.73	181.24	8,039.2	-4,039.2	-859.2	4,098.1	0.46	0.46	-0.06	
12,073.0	88.16	180.52	8,041.8	-4,132.2	-860.6	4,190.8	0.99	-0.61	-0.77	
12,165.0	87.88	181.04	8,044.9	-4,224.1	-861.9	4,282.5	0.64	-0.30	0.57	
12,258.0	87.13	179.95	8,049.0	-4,317.0	-862.7	4,375.1	1.42	-0.81	-1.17	
12,351.0	87.74	179.51	8,053.2	-4,409.9	-862.3	4,467.7	0.81	0.66	-0.47	
12,447.0	89.76	179.94	8,055.2	-4,505.9	-861.8	4,563.2	2.15	2.10	0.45	
12,539.0	91.70	180.24	8,054.1	-4,597.9	-861.9	4,654.9	2.13	2.11	0.33	
12,631.0	90.91	179.58	8,052.0	-4,689.9	-861.8	4,746.5	1.12	-0.86	-0.72	
12,725.0	91.75	179.49	8,049.8	-4,783.8	-861.0	4,840.1	0.90	0.89	-0.10	
12,819.0	90.13	180.47	8,048.3	-4,877.8	-861.0	4,933.7	2.01	-1.72	1.04	
12,912.0	91.44	180.89	8,047.0	-4,970.8	-862.1	5,026.5	1.48	1.41	0.45	
13,006.0	89.43	180.53	8,046.3	-5,064.8	-863.3	5,120.2	2.17	-2.14	-0.38	
13,100.0	90.60	180.50	8,046.2	-5,158.8	-864.1	5,213.9	1.25	1.24	-0.03	
13,193.0	88.92	179.67	8,046.6	-5,251.8	-864.3	5,306.6	2.01	-1.81	-0.89	
13,287.0	90.04	179.72	8,047.5	-5,345.8	-863.8	5,400.2	1.19	1.19	0.05	

Company:	Concho Resources, Inc.	Local Co-ordinate Reference:	Well SRO 4 State Com #503H
Project:	Eddy County (NAD27 NME)	TVD Reference:	KB @ 3021.2usft (Precision 106)
Site:	(SRO 4 State Com) Sec-4_T-26-S_R-28-E	MD Reference:	KB @ 3021.2usft (Precision 106)
Well:	SRO 4 State Com #503H	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)
13,381.0	91.89	180.40	8,045.9	-5,439.8	-863.9	5,493.8	2.10	1.97	0.72
13,475.0	91.16	179.56	8,043.4	-5,533.7	-863.8	5,587.4	1.18	-0.78	-0.89
13,568.0	89.51	177.94	8,042.9	-5,626.7	-861.8	5,679.9	2.49	-1.77	-1.74
13,661.0	90.07	177.61	8,043.2	-5,719.6	-858.2	5,772.2	0.70	0.60	-0.35
13,754.0	89.76	179.04	8,043.3	-5,812.6	-855.5	5,864.6	1.57	-0.33	1.54
13,848.0	91.02	179.60	8,042.7	-5,906.6	-854.4	5,958.1	1.47	1.34	0.60
13,940.0	90.69	179.95	8,041.3	-5,998.6	-854.0	6,049.7	0.52	-0.36	0.38
14,034.0	87.49	179.82	8,042.8	-6,092.5	-853.8	6,143.3	3.41	-3.40	-0.14
14,127.0	89.06	180.27	8,045.6	-6,185.5	-853.9	6,235.9	1.76	1.69	0.48
14,220.0	90.71	180.84	8,045.8	-6,278.5	-854.8	6,328.7	1.88	1.77	0.61
14,313.0	89.06	180.71	8,046.0	-6,371.5	-856.0	6,421.4	1.78	-1.77	-0.14
14,405.0	90.49	180.83	8,046.4	-6,463.5	-857.3	6,513.2	1.56	1.55	0.13
14,499.0	89.45	180.72	8,046.4	-6,557.5	-858.5	6,606.9	1.11	-1.11	-0.12
14,593.0	90.57	180.68	8,046.4	-6,651.4	-859.7	6,700.7	1.19	1.19	-0.04
14,687.0	88.84	180.35	8,046.9	-6,745.4	-860.5	6,794.4	1.87	-1.84	-0.35
14,781.0	89.99	180.60	8,047.8	-6,839.4	-861.3	6,888.1	1.25	1.22	0.27
14,874.0	88.16	180.16	8,049.3	-6,932.4	-861.9	6,980.8	2.02	-1.97	-0.47
14,967.0	89.76	180.44	8,051.0	-7,025.4	-862.4	7,073.5	1.75	1.72	0.30
15,060.0	91.39	180.90	8,050.1	-7,118.4	-863.5	7,166.2	1.82	1.75	0.49
15,154.0	89.62	179.52	8,049.3	-7,212.4	-863.8	7,259.9	2.39	-1.88	-1.47
15,247.0	90.49	179.60	8,049.2	-7,305.4	-863.1	7,352.5	0.94	0.94	0.09
15,338.0	91.89	180.16	8,047.3	-7,396.3	-862.9	7,443.1	1.66	1.54	0.62
15,432.0	90.83	180.52	8,045.0	-7,490.3	-863.5	7,536.8	1.19	-1.13	0.38
15,527.0	89.26	180.60	8,045.0	-7,585.3	-864.4	7,631.5	1.65	-1.65	0.08
15,619.0	90.85	180.91	8,044.9	-7,677.3	-865.6	7,723.3	1.76	1.73	0.34
15,712.0	89.06	179.94	8,045.0	-7,770.3	-866.3	7,816.0	2.19	-1.92	-1.04
15,804.0	90.29	180.25	8,045.5	-7,862.3	-866.5	7,907.6	1.38	1.34	0.34
15,896.0	91.69	181.23	8,043.9	-7,954.3	-867.7	7,999.4	1.86	1.52	1.07
15,989.0	90.24	180.59	8,042.3	-8,047.2	-869.1	8,092.1	1.70	-1.56	-0.69
16,083.0	88.39	179.50	8,043.4	-8,141.2	-869.2	8,185.8	2.28	-1.97	-1.16
16,176.0	90.01	180.08	8,044.7	-8,234.2	-868.9	8,278.4	1.85	1.74	0.62
16,269.0	91.22	180.69	8,043.7	-8,327.2	-869.5	8,371.1	1.46	1.30	0.66
16,362.0	89.85	179.39	8,042.9	-8,420.2	-869.6	8,463.7	2.03	-1.47	-1.40
16,457.0	90.57	179.97	8,042.5	-8,515.2	-869.0	8,558.3	0.97	0.76	0.61
16,551.0	89.48	180.00	8,042.5	-8,609.2	-869.0	8,652.0	1.16	-1.16	0.03
16,643.0	90.46	180.51	8,042.5	-8,701.2	-869.4	8,743.7	1.20	1.07	0.55
16,735.0	89.57	180.38	8,042.5	-8,793.2	-870.1	8,835.4	0.98	-0.97	-0.14
16,829.0	90.43	180.91	8,042.5	-8,887.2	-871.2	8,929.1	1.07	0.91	0.56
16,922.0	88.89	180.23	8,043.1	-8,980.2	-872.1	9,021.9	1.81	-1.66	-0.73
17,015.0	89.76	180.73	8,044.2	-9,073.1	-872.9	9,114.6	1.08	0.94	0.54
17,110.0	88.53	180.46	8,045.6	-9,168.1	-873.9	9,209.3	1.33	-1.29	-0.28
17,204.0	89.54	181.18	8,047.2	-9,262.1	-875.2	9,303.0	1.32	1.07	0.77
17,298.0	90.64	181.76	8,047.0	-9,356.1	-877.6	9,396.9	1.32	1.17	0.62

Company:	Concho Resources, Inc.	Local Co-ordinate Reference:	Well SRO 4 State Com #503H
Project:	Eddy County (NAD27 NME)	TVD Reference:	KB @ 3021.2usft (Precision 106)
Site:	(SRO 4 State Com) Sec-4_T-26-S_R-28-E	MD Reference:	KB @ 3021.2usft (Precision 106)
Well:	SRO 4 State Com #503H	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)
17,391.0	90.66	180.80	8,046.0	-9,449.0	-879.7	9,489.7	1.03	0.02	-1.03
17,484.0	89.85	180.11	8,045.5	-9,542.0	-880.5	9,582.4	1.14	-0.87	-0.74
17,576.0	90.57	179.72	8,045.2	-9,634.0	-880.3	9,674.0	0.89	0.78	-0.42
17,670.0	89.09	179.38	8,045.5	-9,728.0	-879.6	9,767.6	1.62	-1.57	-0.36
17,762.0	90.10	179.31	8,046.1	-9,820.0	-878.5	9,859.2	1.10	1.10	-0.08
17,855.0	91.02	179.81	8,045.2	-9,913.0	-877.8	9,951.8	1.13	0.99	0.54
17,948.0	88.45	179.84	8,045.7	-10,006.0	-877.5	10,044.4	2.76	-2.76	0.03
18,042.0	88.98	179.90	8,047.8	-10,100.0	-877.3	10,138.0	0.57	0.56	0.06
18,135.0	90.29	180.38	8,048.4	-10,193.0	-877.6	10,230.7	1.50	1.41	0.52
18,187.0	90.80	180.91	8,047.9	-10,245.0	-878.1	10,282.5	1.41	0.98	1.02
LAST SVY									
18,196.4	90.80	180.91	8,047.7	-10,254.4	-878.3	10,291.9	0.00	0.00	0.00
LTP @ 18196.4'MD, 100'FSL & 339'FWL									
18,246.0	90.80	180.91	8,047.0	-10,304.0	-879.1	10,341.4	0.00	0.00	0.00
Projection to TD @ 50'FSL & 338'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									
FTP (SRO 4 State Co	0.00	0.00	8,045.0	122.2	-831.5	392,372.00	572,498.20	32° 4' 42.708 N	104° 5' 57.353 W
- actual wellpath misses target center by 418.0usft at 7991.0usft MD (7898.8 TVD, -127.4 N, -529.8 E)									
- Point									
PBHL (SRO 4 State C	0.00	180.31	8,045.0	-10,304.4	-887.4	381,945.40	572,442.30	32° 2' 59.522 N	104° 5' 58.265 W
- actual wellpath misses target center by 8.6usft at 18246.0usft MD (8047.0 TVD, -10304.0 N, -879.1 E)									
- Rectangle (sides W60.0 H1,547.5 D30.0)									
LTP (SRO 4 State Co	0.00	0.00	8,045.0	-10,254.4	-887.1	381,995.40	572,442.60	32° 3' 0.017 N	104° 5' 58.261 W
- actual wellpath misses target center by 9.2usft at 18196.4usft MD (8047.7 TVD, -10254.4 N, -878.3 E)									
- Point									

Company:	Concho Resources, Inc.	Local Co-ordinate Reference:	Well SRO 4 State Com #503H
Project:	Eddy County (NAD27 NME)	TVD Reference:	KB @ 3021.2usft (Precision 106)
Site:	(SRO 4 State Com) Sec-4_T-26-S_R-28-E	MD Reference:	KB @ 3021.2usft (Precision 106)
Well:	SRO 4 State Com #503H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
644.1	644.0	Rustler			
815.1	815.0	TOS			
2,222.6	2,222.0	BOS (Fletcher)			
2,414.6	2,414.0	LMAR (Top Delaware)			
2,453.6	2,453.0	BLCN			
3,332.2	3,325.0	CYCN			
4,543.3	4,529.0	BYCN			
6,111.3	6,093.0	Bone Sprg (BSGL)			
6,444.0	6,425.0	U Avalon Sh			
6,659.7	6,640.0	L Avalon Sh			
6,840.3	6,820.0	B Avalon Sh			
7,045.1	7,024.0	FBSG_sand			
7,733.0	7,697.0	SBSG_sand			

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
18,187.0	8,047.9	-10,245.0	-878.1	LAST SVY	
18,196.4	8,047.7	-10,254.4	-878.3	LTP @ 18196.4'MD, 100'FSL & 339'FWL	
18,246.0	8,047.0	-10,304.0	-879.1	Projection to TD @ 50'FSL & 338'FWL	

Checked By: _____ Approved By: _____ Date: _____