



CONCHO

Concho Resources, Inc.

Lea County, NM (NAD 27 NME)

(Huckleberry State Com) Sec-27_T-21-S_R-33-E

Huckleberry State Com #506H

API# 30-025-45208

OWB

Design: AWB

Standard Survey Report

25 April, 2019

 **INTREPID**



Company:	Concho Resources, Inc.	Local Co-ordinate Reference:	Well Huckleberry State Com #506H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	KB @ 3740.5usft (Latshaw 44)
Site:	(Huckleberry State Com) Sec-27_T-21-S_R-33-E	MD Reference:	KB @ 3740.5usft (Latshaw 44)
Well:	Huckleberry State Com #506H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

Project	Lea County, NM (NAD 27 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	(Huckleberry State Com) Sec-27_T-21-S_R-33-E		
Site Position:		Northing:	530,664.00 usft
From:	Map	Easting:	737,122.90 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 27' 23.619 N
		Longitude:	103° 33' 52.502 W
		Grid Convergence:	0.41 °

Well	Huckleberry State Com #506H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 27' 23.620 N
		Longitude:	103° 33' 52.852 W
		Ground Level:	3,715.5 usft

Wellbore	OWB		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2015	01/17/19	6.80
			Dip Angle
			(°)
			60.26
			Field Strength
			(nT)
			47,911.10617027

Design	AWB		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			358.56

Survey Program	Date 04/25/19		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
100.0	10,263.3	SDI Gyro (OWB)	Standard Keeper 104
10,305.0	21,350.0	Intrepid MWD Crv/Lat (OWB)	MWD+IFR1+MS
			Description
			Standard Wireline Keeper ver 1.0.4
			MWD + IFR1 + Multi-Station Correction

Survey									
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Vertical	Dogleg	Build	Turn
Depth	(°)	(°)	Depth	(usft)	(usft)	Section	Rate	Rate	Rate
(usft)			(usft)			(usft)	(°/100usft)	(°/100usft)	(°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.53	118.63	100.0	-0.2	0.4	-0.2	0.53	0.53	0.00
125.0	0.60	117.17	125.0	-0.3	0.6	-0.4	0.29	0.28	-5.84
150.0	0.61	117.74	150.0	-0.5	0.9	-0.5	0.05	0.04	2.28
175.0	0.55	118.26	175.0	-0.6	1.1	-0.6	0.24	-0.24	2.08
200.0	0.51	120.56	200.0	-0.7	1.3	-0.7	0.18	-0.16	9.20
225.0	0.57	116.57	225.0	-0.8	1.5	-0.8	0.28	0.24	-15.96
250.0	0.32	120.42	250.0	-0.9	1.7	-0.9	1.01	-1.00	15.40
275.0	0.52	123.95	275.0	-1.0	1.8	-1.0	0.81	0.80	14.12
300.0	0.53	108.28	300.0	-1.1	2.0	-1.1	0.57	0.04	-62.68



Intrepid
Survey Report



Company:	Concho Resources, Inc.	Local Co-ordinate Reference:	Well Huckleberry State Com #506H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	KB @ 3740.5usft (Latshaw 44)
Site:	(Huckleberry State Com) Sec-27_T-21-S_R-33-E	MD Reference:	KB @ 3740.5usft (Latshaw 44)
Well:	Huckleberry State Com #506H	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	0.49	123.66	325.0	-1.2	2.2	-1.2	0.57	-0.16	61.52
350.0	0.48	117.16	350.0	-1.3	2.4	-1.4	0.22	-0.04	-26.00
375.0	0.36	95.95	375.0	-1.4	2.6	-1.4	0.78	-0.48	-84.84
400.0	0.49	64.14	400.0	-1.3	2.7	-1.4	1.06	0.52	-127.24
425.0	0.36	57.47	425.0	-1.2	2.9	-1.3	0.56	-0.52	-26.68
450.0	0.42	64.47	450.0	-1.1	3.1	-1.2	0.31	0.24	28.00
475.0	0.39	66.92	475.0	-1.1	3.2	-1.1	0.14	-0.12	9.80
500.0	0.43	53.39	500.0	-1.0	3.4	-1.1	0.42	0.16	-54.12
525.0	0.36	51.47	525.0	-0.9	3.5	-1.0	0.28	-0.28	-7.68
550.0	0.38	39.95	550.0	-0.8	3.6	-0.9	0.31	0.08	-46.08
575.0	0.38	48.96	575.0	-0.6	3.7	-0.7	0.24	0.00	36.04
600.0	0.36	47.55	600.0	-0.5	3.9	-0.6	0.09	-0.08	-5.64
625.0	0.33	29.97	625.0	-0.4	4.0	-0.5	0.44	-0.12	-70.32
650.0	0.30	59.02	650.0	-0.3	4.0	-0.4	0.64	-0.12	116.20
675.0	0.35	15.41	675.0	-0.2	4.1	-0.3	0.98	0.20	-174.44
700.0	0.38	62.29	700.0	-0.1	4.2	-0.2	1.17	0.12	187.52
725.0	0.35	46.27	725.0	0.0	4.3	-0.1	0.42	-0.12	-64.08
750.0	0.45	47.67	750.0	0.1	4.5	0.0	0.40	0.40	5.60
775.0	0.37	59.19	775.0	0.2	4.6	0.1	0.46	-0.32	46.08
800.0	0.26	25.29	800.0	0.3	4.7	0.2	0.85	-0.44	-135.60
825.0	0.24	52.37	825.0	0.4	4.8	0.3	0.47	-0.08	108.32
850.0	0.24	46.63	850.0	0.5	4.9	0.3	0.10	0.00	-22.96
875.0	0.24	49.66	875.0	0.5	4.9	0.4	0.05	0.00	12.12
900.0	0.20	71.69	900.0	0.6	5.0	0.4	0.37	-0.16	88.12
925.0	0.13	80.85	925.0	0.6	5.1	0.5	0.30	-0.28	36.64
950.0	0.16	97.16	950.0	0.6	5.1	0.5	0.20	0.12	65.24
975.0	0.19	112.76	975.0	0.6	5.2	0.4	0.22	0.12	62.40
1,000.0	0.14	150.63	1,000.0	0.5	5.3	0.4	0.47	-0.20	151.48
1,025.0	0.24	129.65	1,025.0	0.5	5.3	0.3	0.48	0.40	-83.92
1,050.0	0.39	124.13	1,050.0	0.4	5.4	0.3	0.61	0.60	-22.08
1,075.0	0.38	121.25	1,075.0	0.3	5.6	0.2	0.09	-0.04	-11.52
1,100.0	0.31	126.17	1,100.0	0.2	5.7	0.1	0.30	-0.28	19.68
1,125.0	0.29	125.66	1,125.0	0.1	5.8	0.0	0.08	-0.08	-2.04
1,150.0	0.33	132.01	1,150.0	0.1	5.9	-0.1	0.21	0.16	25.40
1,175.0	0.37	135.53	1,175.0	-0.1	6.0	-0.2	0.18	0.16	14.08
1,200.0	0.40	120.14	1,200.0	-0.2	6.2	-0.3	0.43	0.12	-61.56
1,225.0	0.51	114.53	1,225.0	-0.2	6.3	-0.4	0.47	0.44	-22.44
1,250.0	0.65	105.90	1,250.0	-0.3	6.6	-0.5	0.66	0.56	-34.52
1,275.0	0.89	109.37	1,275.0	-0.4	6.9	-0.6	0.98	0.96	13.88
1,300.0	1.03	106.04	1,300.0	-0.6	7.3	-0.7	0.60	0.56	-13.32
1,325.0	1.22	103.89	1,325.0	-0.7	7.8	-0.9	0.78	0.76	-8.60
1,350.0	1.41	104.57	1,350.0	-0.8	8.3	-1.0	0.76	0.76	2.72
1,375.0	1.65	102.87	1,374.9	-1.0	9.0	-1.2	0.98	0.96	-6.80

Company:	Concho Resources, Inc.	Local Co-ordinate Reference:	Well Huckleberry State Com #506H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	KB @ 3740.5usft (Latshaw 44)
Site:	(Huckleberry State Com) Sec-27_T-21-S_R-33-E	MD Reference:	KB @ 3740.5usft (Latshaw 44)
Well:	Huckleberry State Com #506H	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)
1,400.0	2.07	100.76	1,399.9	-1.1	9.8	-1.4	1.70	1.68	-8.44
1,425.0	2.40	101.87	1,424.9	-1.3	10.7	-1.6	1.33	1.32	4.44
1,450.0	2.77	96.13	1,449.9	-1.5	11.8	-1.8	1.80	1.48	-22.96
1,475.0	3.05	95.57	1,474.9	-1.6	13.1	-2.0	1.13	1.12	-2.24
1,500.0	3.13	91.84	1,499.8	-1.7	14.4	-2.1	0.87	0.32	-14.92
1,525.0	3.35	91.98	1,524.8	-1.8	15.9	-2.2	0.88	0.88	0.56
1,550.0	3.41	90.72	1,549.7	-1.8	17.3	-2.2	0.38	0.24	-5.04
1,575.0	3.38	89.63	1,574.7	-1.8	18.8	-2.3	0.28	-0.12	-4.36
1,600.0	3.48	89.33	1,599.6	-1.8	20.3	-2.3	0.41	0.40	-1.20
1,625.0	3.50	89.37	1,624.6	-1.8	21.8	-2.3	0.08	0.08	0.16
1,650.0	3.58	87.36	1,649.6	-1.7	23.4	-2.3	0.59	0.32	-8.04
1,675.0	3.48	85.46	1,674.5	-1.6	24.9	-2.3	0.62	-0.40	-7.60
1,700.0	3.42	84.16	1,699.5	-1.5	26.4	-2.2	0.39	-0.24	-5.20
1,725.0	3.53	85.38	1,724.4	-1.4	27.9	-2.1	0.53	0.44	4.88
1,750.0	3.35	84.87	1,749.4	-1.2	29.4	-2.0	0.73	-0.72	-2.04
1,775.0	3.28	83.73	1,774.3	-1.1	30.8	-1.9	0.38	-0.28	-4.56
1,800.0	3.18	81.95	1,799.3	-0.9	32.2	-1.7	0.57	-0.40	-7.12
1,806.7	3.17	81.90	1,806.0	-0.9	32.6	-1.7	0.13	-0.12	-0.80
Rustler									
1,825.0	3.15	81.75	1,824.2	-0.7	33.6	-1.6	0.13	-0.12	-0.80
1,850.0	3.28	83.85	1,849.2	-0.6	35.0	-1.4	0.70	0.52	8.40
1,875.0	3.08	83.63	1,874.2	-0.4	36.4	-1.3	0.80	-0.80	-0.88
1,900.0	3.15	85.13	1,899.1	-0.3	37.7	-1.2	0.43	0.28	6.00
1,900.9	3.15	85.13	1,900.0	-0.3	37.8	-1.2	0.00	0.00	0.00
TOS									
1,925.0	3.16	85.66	1,924.1	-0.2	39.1	-1.1	0.13	0.04	2.20
1,950.0	3.06	88.69	1,949.1	-0.1	40.5	-1.1	0.77	-0.40	12.12
1,975.0	3.06	91.56	1,974.0	-0.1	41.8	-1.1	0.61	0.00	11.48
2,000.0	2.87	94.57	1,999.0	-0.2	43.1	-1.2	0.98	-0.76	12.04
2,025.0	2.69	101.60	2,024.0	-0.3	44.3	-1.4	1.54	-0.72	28.12
2,050.0	2.39	111.38	2,048.9	-0.6	45.3	-1.8	2.10	-1.20	39.12
2,075.0	2.23	120.61	2,073.9	-1.1	46.2	-2.2	1.62	-0.64	36.92
2,100.0	2.10	127.75	2,098.9	-1.6	47.0	-2.8	1.20	-0.52	28.56
2,125.0	2.01	133.42	2,123.9	-2.2	47.7	-3.4	0.89	-0.36	22.68
2,150.0	1.68	149.02	2,148.9	-2.8	48.2	-4.0	2.39	-1.32	62.40
2,175.0	1.51	171.54	2,173.9	-3.4	48.4	-4.7	2.58	-0.68	90.08
2,200.0	1.41	186.70	2,198.9	-4.1	48.5	-5.3	1.59	-0.40	60.64
2,225.0	1.37	197.08	2,223.8	-4.7	48.3	-5.9	1.02	-0.16	41.52
2,250.0	1.38	226.32	2,248.8	-5.2	48.0	-6.4	2.78	0.04	116.96
2,275.0	1.64	257.45	2,273.8	-5.4	47.5	-6.6	3.39	1.04	124.52
2,300.0	1.94	272.54	2,298.8	-5.5	46.7	-6.7	2.22	1.20	60.36
2,325.0	2.20	278.45	2,323.8	-5.4	45.8	-6.6	1.34	1.04	23.64
2,350.0	2.41	282.72	2,348.8	-5.2	44.8	-6.4	1.08	0.84	17.08
2,375.0	2.49	284.62	2,373.8	-5.0	43.8	-6.1	0.46	0.32	7.60



Company:	Concho Resources, Inc.	Local Co-ordinate Reference:	Well Huckleberry State Com #506H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	KB @ 3740.5usft (Latshaw 44)
Site:	(Huckleberry State Com) Sec-27_T-21-S_R-33-E	MD Reference:	KB @ 3740.5usft (Latshaw 44)
Well:	Huckleberry State Com #506H	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)
2,400.0	2.51	284.16	2,398.7	-4.7	42.7	-5.8	0.11	0.08	-1.84
2,425.0	2.29	287.70	2,423.7	-4.4	41.7	-5.5	1.06	-0.88	14.16
2,450.0	2.05	289.11	2,448.7	-4.1	40.8	-5.1	0.98	-0.96	5.64
2,475.0	1.61	292.24	2,473.7	-3.8	40.1	-4.8	1.80	-1.76	12.52
2,500.0	1.40	292.62	2,498.7	-3.6	39.5	-4.6	0.84	-0.84	1.52
2,525.0	1.27	291.00	2,523.7	-3.4	38.9	-4.4	0.54	-0.52	-6.48
2,550.0	1.20	286.95	2,548.7	-3.2	38.4	-4.2	0.45	-0.28	-16.20
2,575.0	1.16	286.49	2,573.7	-3.0	37.9	-4.0	0.16	-0.16	-1.84
2,600.0	1.20	288.66	2,598.7	-2.9	37.4	-3.8	0.24	0.16	8.68
2,625.0	1.16	289.54	2,623.6	-2.7	36.9	-3.7	0.18	-0.16	3.52
2,650.0	1.19	288.60	2,648.6	-2.6	36.4	-3.5	0.14	0.12	-3.76
2,675.0	1.17	290.25	2,673.6	-2.4	36.0	-3.3	0.16	-0.08	6.60
2,700.0	1.17	287.37	2,698.6	-2.2	35.5	-3.1	0.24	0.00	-11.52
2,725.0	1.18	291.23	2,723.6	-2.1	35.0	-2.9	0.32	0.04	15.44
2,750.0	1.33	292.59	2,748.6	-1.8	34.5	-2.7	0.61	0.60	5.44
2,775.0	1.26	293.89	2,773.6	-1.6	34.0	-2.5	0.30	-0.28	5.20
2,800.0	1.40	293.41	2,798.6	-1.4	33.4	-2.2	0.56	0.56	-1.92
2,825.0	1.41	297.60	2,823.6	-1.1	32.9	-2.0	0.41	0.04	16.76
2,850.0	1.42	296.99	2,848.6	-0.8	32.3	-1.7	0.07	0.04	-2.44
2,875.0	1.27	299.99	2,873.6	-0.6	31.8	-1.4	0.66	-0.60	12.00
2,900.0	0.95	310.99	2,898.6	-0.3	31.4	-1.1	1.53	-1.28	44.00
2,925.0	0.64	332.32	2,923.6	0.0	31.2	-0.8	1.69	-1.24	85.32
2,950.0	0.51	23.47	2,948.6	0.2	31.2	-0.6	2.04	-0.52	204.60
2,975.0	0.79	64.89	2,973.6	0.4	31.4	-0.4	2.12	1.12	165.68
3,000.0	0.89	64.56	2,998.6	0.5	31.7	-0.3	0.40	0.40	-1.32
3,025.0	1.18	81.12	3,023.6	0.6	32.1	-0.2	1.66	1.16	66.24
3,050.0	1.30	84.67	3,048.6	0.7	32.7	-0.1	0.57	0.48	14.20
3,075.0	1.23	86.49	3,073.6	0.8	33.2	-0.1	0.32	-0.28	7.28
3,100.0	1.28	106.64	3,098.5	0.7	33.8	-0.2	1.77	0.20	80.60
3,125.0	1.18	118.75	3,123.5	0.5	34.3	-0.4	1.11	-0.40	48.44
3,150.0	1.17	126.95	3,148.5	0.2	34.7	-0.7	0.67	-0.04	32.80
3,175.0	1.01	136.15	3,173.5	-0.1	35.0	-1.0	0.95	-0.64	36.80
3,200.0	0.66	194.70	3,198.5	-0.4	35.2	-1.3	3.49	-1.40	234.20
3,225.0	0.98	217.50	3,223.5	-0.7	35.0	-1.6	1.80	1.28	91.20
3,250.0	1.13	231.88	3,248.5	-1.0	34.7	-1.9	1.21	0.60	57.52
3,275.0	1.36	243.92	3,273.5	-1.3	34.2	-2.2	1.39	0.92	48.16
3,300.0	1.44	251.49	3,298.5	-1.5	33.6	-2.4	0.81	0.32	30.28
3,325.0	1.57	256.54	3,323.5	-1.7	33.0	-2.6	0.74	0.52	20.20
3,350.0	1.64	259.98	3,348.5	-1.9	32.3	-2.7	0.48	0.28	13.76
3,375.0	1.76	263.61	3,373.5	-2.0	31.6	-2.8	0.64	0.48	14.52
3,400.0	1.91	268.27	3,398.5	-2.0	30.8	-2.8	0.85	0.60	18.64
3,425.0	2.02	270.04	3,423.5	-2.0	29.9	-2.8	0.50	0.44	7.08
3,450.0	2.05	270.11	3,448.4	-2.0	29.1	-2.8	0.12	0.12	0.28

Company:	Concho Resources, Inc.	Local Co-ordinate Reference:	Well Huckleberry State Com #506H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	KB @ 3740.5usft (Latshaw 44)
Site:	(Huckleberry State Com) Sec-27_T-21-S_R-33-E	MD Reference:	KB @ 3740.5usft (Latshaw 44)
Well:	Huckleberry State Com #506H	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)
3,475.0	2.07	270.82	3,473.4	-2.0	28.2	-2.7	0.13	0.08	2.84
3,500.0	2.17	271.03	3,498.4	-2.0	27.2	-2.7	0.40	0.40	0.84
3,525.0	2.16	271.06	3,523.4	-2.0	26.3	-2.7	0.04	-0.04	0.12
3,541.6	2.22	275.10	3,540.0	-2.0	25.6	-2.6	1.00	0.38	24.28
BOS / Tansill									
3,550.0	2.26	277.04	3,548.4	-1.9	25.3	-2.6	1.00	0.43	23.20
3,575.0	2.17	295.32	3,573.4	-1.7	24.4	-2.3	2.84	-0.36	73.12
3,600.0	2.29	311.81	3,598.3	-1.1	23.6	-1.7	2.60	0.48	65.96
3,625.0	2.23	319.49	3,623.3	-0.4	22.9	-1.0	1.23	-0.24	30.72
3,650.0	2.17	328.57	3,648.3	0.3	22.4	-0.2	1.41	-0.24	36.32
3,675.0	1.95	348.35	3,673.3	1.2	22.0	0.6	2.96	-0.88	79.12
3,700.0	1.94	5.00	3,698.3	2.0	22.0	1.5	2.25	-0.04	66.60
3,725.0	1.81	13.89	3,723.3	2.8	22.1	2.3	1.27	-0.52	35.56
3,736.8	1.72	15.90	3,735.0	3.2	22.2	2.6	0.93	-0.77	17.06
Yates									
3,750.0	1.62	18.42	3,748.2	3.5	22.3	3.0	0.93	-0.75	19.06
3,775.0	1.24	27.49	3,773.2	4.1	22.5	3.5	1.76	-1.52	36.28
3,800.0	0.73	41.98	3,798.2	4.5	22.8	3.9	2.25	-2.04	57.96
3,804.8	0.67	43.87	3,803.0	4.5	22.8	3.9	1.38	-1.30	39.58
Seven Rivers									
3,825.0	0.42	57.92	3,823.2	4.6	23.0	4.1	1.38	-1.23	69.47
3,850.0	0.30	69.86	3,848.2	4.7	23.1	4.1	0.56	-0.48	47.76
3,875.0	0.28	89.43	3,873.2	4.7	23.2	4.1	0.40	-0.08	78.28
3,900.0	0.25	98.11	3,898.2	4.7	23.3	4.1	0.20	-0.12	34.72
3,925.0	0.29	99.76	3,923.2	4.7	23.5	4.1	0.16	0.16	6.60
3,950.0	0.28	93.37	3,948.2	4.7	23.6	4.1	0.13	-0.04	-25.56
3,962.8	0.27	99.24	3,961.0	4.7	23.6	4.1	0.23	-0.05	45.94
Capitan Reef									
3,975.0	0.27	105.07	3,973.2	4.7	23.7	4.1	0.23	-0.03	47.70
4,000.0	0.28	117.27	3,998.2	4.6	23.8	4.0	0.24	0.04	48.80
4,025.0	0.21	121.13	4,023.2	4.6	23.9	4.0	0.29	-0.28	15.44
4,050.0	0.19	104.39	4,048.2	4.5	24.0	3.9	0.25	-0.08	-66.96
4,075.0	0.11	91.99	4,073.2	4.5	24.0	3.9	0.34	-0.32	-49.60
4,100.0	0.05	88.00	4,098.2	4.5	24.1	3.9	0.24	-0.24	-15.96
4,125.0	0.06	4.87	4,123.2	4.5	24.1	3.9	0.29	0.04	-332.52
4,150.0	0.15	315.10	4,148.2	4.6	24.1	4.0	0.48	0.36	-199.08
4,175.0	0.16	322.28	4,173.2	4.6	24.0	4.0	0.09	0.04	28.72
4,200.0	0.18	309.39	4,198.2	4.7	24.0	4.1	0.17	0.08	-51.56
4,225.0	0.24	338.01	4,223.2	4.8	23.9	4.2	0.48	0.24	114.48
4,250.0	0.38	349.26	4,248.2	4.9	23.9	4.3	0.61	0.56	45.00
4,275.0	0.62	354.17	4,273.2	5.1	23.9	4.5	0.97	0.96	19.64
4,300.0	0.75	345.14	4,298.2	5.4	23.8	4.8	0.67	0.52	-36.12
4,325.0	0.81	341.06	4,323.2	5.7	23.7	5.1	0.33	0.24	-16.32
4,350.0	0.83	331.37	4,348.2	6.0	23.6	5.4	0.56	0.08	-38.76

Company:	Concho Resources, Inc.	Local Co-ordinate Reference:	Well Huckleberry State Com #506H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	KB @ 3740.5usft (Latshaw 44)
Site:	(Huckleberry State Com) Sec-27_T-21-S_R-33-E	MD Reference:	KB @ 3740.5usft (Latshaw 44)
Well:	Huckleberry State Com #506H	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	0.78	316.35	4,373.2	6.3	23.4	5.7	0.86	-0.20	-60.08
4,400.0	0.82	296.79	4,398.2	6.5	23.1	5.9	1.10	0.16	-78.24
4,425.0	0.83	299.38	4,423.2	6.7	22.8	6.1	0.15	0.04	10.36
4,450.0	0.84	302.65	4,448.2	6.9	22.4	6.3	0.19	0.04	13.08
4,475.0	0.88	302.21	4,473.2	7.1	22.1	6.5	0.16	0.16	-1.76
4,500.0	0.82	300.83	4,498.2	7.3	21.8	6.7	0.25	-0.24	-5.52
4,525.0	0.75	293.26	4,523.2	7.4	21.5	6.9	0.50	-0.28	-30.28
4,550.0	0.61	287.86	4,548.2	7.5	21.2	7.0	0.62	-0.56	-21.60
4,575.0	0.48	292.46	4,573.2	7.6	21.0	7.1	0.55	-0.52	18.40
4,600.0	0.48	286.44	4,598.2	7.7	20.8	7.2	0.20	0.00	-24.08
4,625.0	0.45	285.77	4,623.2	7.8	20.6	7.2	0.12	-0.12	-2.68
4,650.0	0.30	291.49	4,648.2	7.8	20.5	7.3	0.62	-0.60	22.88
4,675.0	0.24	296.44	4,673.2	7.8	20.4	7.3	0.26	-0.24	19.80
4,700.0	0.09	330.87	4,698.2	7.9	20.3	7.4	0.69	-0.60	137.72
4,725.0	0.13	75.55	4,723.2	7.9	20.3	7.4	0.70	0.16	418.72
4,750.0	0.17	70.29	4,748.2	7.9	20.4	7.4	0.17	0.16	-21.04
4,775.0	0.14	74.79	4,773.2	8.0	20.4	7.4	0.13	-0.12	18.00
4,800.0	0.15	60.00	4,798.2	8.0	20.5	7.5	0.15	0.04	-59.16
4,825.0	0.17	76.11	4,823.2	8.0	20.6	7.5	0.20	0.08	64.44
4,850.0	0.17	87.83	4,848.2	8.0	20.6	7.5	0.14	0.00	46.88
4,875.0	0.22	49.56	4,873.2	8.0	20.7	7.5	0.55	0.20	-153.08
4,900.0	0.18	97.53	4,898.2	8.1	20.8	7.5	0.67	-0.16	191.88
4,925.0	0.17	99.26	4,923.2	8.1	20.9	7.5	0.05	-0.04	6.92
4,950.0	0.16	57.74	4,948.2	8.1	20.9	7.5	0.47	-0.04	-166.08
4,975.0	0.13	104.39	4,973.2	8.1	21.0	7.6	0.47	-0.12	186.60
5,000.0	0.17	97.39	4,998.2	8.1	21.1	7.5	0.18	0.16	-28.00
5,025.0	0.19	101.31	5,023.2	8.1	21.1	7.5	0.09	0.08	15.68
5,050.0	0.21	104.84	5,048.2	8.0	21.2	7.5	0.09	0.08	14.12
5,075.0	0.24	107.70	5,073.2	8.0	21.3	7.5	0.13	0.12	11.44
5,100.0	0.26	110.05	5,098.2	8.0	21.4	7.4	0.09	0.08	9.40
5,125.0	0.28	112.01	5,123.2	7.9	21.5	7.4	0.09	0.08	7.84
5,150.0	0.31	113.67	5,148.2	7.9	21.6	7.3	0.12	0.12	6.64
5,175.0	0.33	115.08	5,173.2	7.8	21.8	7.3	0.09	0.08	5.64
5,200.0	0.36	116.30	5,198.2	7.8	21.9	7.2	0.12	0.12	4.88
5,225.0	0.38	117.37	5,223.2	7.7	22.0	7.1	0.08	0.08	4.28
5,250.0	0.41	118.31	5,248.2	7.6	22.2	7.0	0.12	0.12	3.76
5,275.0	0.43	119.13	5,273.2	7.5	22.4	7.0	0.08	0.08	3.28
5,300.0	0.46	119.87	5,298.2	7.4	22.5	6.9	0.12	0.12	2.96
5,325.0	0.48	120.54	5,323.2	7.3	22.7	6.7	0.08	0.08	2.68
5,350.0	0.51	121.13	5,348.2	7.2	22.9	6.6	0.12	0.12	2.36
5,359.8	0.52	121.33	5,358.0	7.2	23.0	6.6	0.08	0.07	2.03
Base of Reef (BLCN)									
5,375.0	0.53	121.67	5,373.2	7.1	23.1	6.5	0.09	0.08	2.25



Intrepid
Survey Report



Company:	Concho Resources, Inc.	Local Co-ordinate Reference:	Well Huckleberry State Com #506H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	KB @ 3740.5usft (Latshaw 44)
Site:	(Huckleberry State Com) Sec-27_T-21-S_R-33-E	MD Reference:	KB @ 3740.5usft (Latshaw 44)
Well:	Huckleberry State Com #506H	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	0.56	122.17	5,398.2	7.0	23.3	6.4	0.12	0.12	2.00
5,425.0	0.58	122.61	5,423.2	6.8	23.5	6.2	0.08	0.08	1.76
5,450.0	0.61	123.03	5,448.2	6.7	23.7	6.1	0.12	0.12	1.68
5,475.0	0.63	123.41	5,473.2	6.5	23.9	5.9	0.08	0.08	1.52
5,500.0	0.66	123.76	5,498.2	6.4	24.2	5.8	0.12	0.12	1.40
5,525.0	0.63	122.01	5,523.2	6.2	24.4	5.6	0.14	-0.12	-7.00
5,550.0	0.49	134.92	5,548.2	6.1	24.6	5.5	0.75	-0.56	51.64
5,575.0	0.87	237.59	5,573.2	5.9	24.5	5.3	4.35	1.52	410.68
5,600.0	1.97	253.61	5,598.2	5.7	23.9	5.1	4.64	4.40	64.08
5,625.0	2.44	257.66	5,623.1	5.5	23.0	4.9	1.98	1.88	16.20
5,650.0	2.59	258.25	5,648.1	5.2	21.9	4.7	0.61	0.60	2.36
5,675.0	2.60	257.55	5,673.1	5.0	20.8	4.5	0.13	0.04	-2.80
5,700.0	2.58	258.02	5,698.1	4.7	19.7	4.2	0.12	-0.08	1.88
5,725.0	2.61	258.85	5,723.0	4.5	18.6	4.1	0.19	0.12	3.32
5,750.0	2.59	258.12	5,748.0	4.3	17.5	3.9	0.15	-0.08	-2.92
5,775.0	2.61	257.41	5,773.0	4.1	16.4	3.6	0.15	0.08	-2.84
5,800.0	2.61	258.48	5,798.0	3.8	15.3	3.4	0.19	0.00	4.28
5,810.0	2.70	257.19	5,808.0	3.7	14.8	3.3	1.06	0.87	-12.88
CYCN									
5,825.0	2.83	255.41	5,822.9	3.5	14.1	3.2	1.06	0.89	-11.88
5,850.0	3.14	249.30	5,847.9	3.1	12.9	2.8	1.78	1.24	-24.44
5,875.0	3.44	244.12	5,872.9	2.6	11.6	2.3	1.69	1.20	-20.72
5,900.0	3.64	240.43	5,897.8	1.9	10.2	1.6	1.21	0.80	-14.76
5,925.0	3.76	238.36	5,922.8	1.0	8.8	0.8	0.72	0.48	-8.28
5,950.0	3.76	238.44	5,947.7	0.2	7.4	0.0	0.02	0.00	0.32
5,975.0	3.72	238.30	5,972.7	-0.7	6.0	-0.8	0.16	-0.16	-0.56
6,000.0	3.77	238.72	5,997.6	-1.5	4.7	-1.6	0.23	0.20	1.68
6,025.0	3.76	239.98	6,022.6	-2.4	3.2	-2.4	0.33	-0.04	5.04
6,050.0	3.82	240.05	6,047.5	-3.2	1.8	-3.2	0.24	0.24	0.28
6,075.0	3.80	239.04	6,072.4	-4.0	0.4	-4.0	0.28	-0.08	-4.04
6,100.0	3.79	239.29	6,097.4	-4.9	-1.0	-4.9	0.08	-0.04	1.00
6,125.0	3.88	238.55	6,122.3	-5.7	-2.5	-5.7	0.41	0.36	-2.96
6,150.0	3.87	238.36	6,147.3	-6.6	-3.9	-6.5	0.07	-0.04	-0.76
6,175.0	3.78	238.48	6,172.2	-7.5	-5.3	-7.4	0.36	-0.36	0.48
6,200.0	3.71	238.51	6,197.2	-8.4	-6.7	-8.2	0.28	-0.28	0.12
6,225.0	3.54	236.37	6,222.1	-9.2	-8.1	-9.0	0.87	-0.68	-8.56
6,250.0	3.43	232.45	6,247.1	-10.1	-9.3	-9.9	1.05	-0.44	-15.68
6,275.0	3.25	228.57	6,272.0	-11.0	-10.4	-10.7	1.16	-0.72	-15.52
6,300.0	3.16	224.54	6,297.0	-12.0	-11.4	-11.7	0.97	-0.36	-16.12
6,325.0	3.15	222.54	6,321.9	-13.0	-12.4	-12.7	0.44	-0.04	-8.00
6,350.0	3.18	222.49	6,346.9	-14.0	-13.3	-13.6	0.12	0.12	-0.20
6,375.0	3.22	223.10	6,371.9	-15.0	-14.3	-14.6	0.21	0.16	2.44
6,400.0	3.21	222.50	6,396.8	-16.0	-15.2	-15.7	0.14	-0.04	-2.40
6,425.0	3.22	222.84	6,421.8	-17.1	-16.2	-16.7	0.09	0.04	1.36



Company:	Concho Resources, Inc.	Local Co-ordinate Reference:	Well Huckleberry State Com #506H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	KB @ 3740.5usft (Latshaw 44)
Site:	(Huckleberry State Com) Sec-27_T-21-S_R-33-E	MD Reference:	KB @ 3740.5usft (Latshaw 44)
Well:	Huckleberry State Com #506H	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	3.22	224.05	6,446.8	-18.1	-17.1	-17.7	0.27	0.00	4.84
6,475.0	3.21	222.66	6,471.7	-19.1	-18.1	-18.6	0.31	-0.04	-5.56
6,500.0	3.20	221.77	6,496.7	-20.1	-19.0	-19.7	0.20	-0.04	-3.56
6,525.0	3.22	222.50	6,521.6	-21.2	-20.0	-20.7	0.18	0.08	2.92
6,550.0	3.22	221.82	6,546.6	-22.2	-20.9	-21.7	0.15	0.00	-2.72
6,575.0	3.19	223.08	6,571.6	-23.3	-21.9	-22.7	0.31	-0.12	5.04
6,600.0	2.90	224.78	6,596.5	-24.2	-22.8	-23.6	1.21	-1.16	6.80
6,625.0	2.14	228.00	6,621.5	-25.0	-23.6	-24.4	3.09	-3.04	12.88
6,650.0	1.58	234.22	6,646.5	-25.5	-24.2	-24.9	2.38	-2.24	24.88
6,675.0	1.29	237.36	6,671.5	-25.8	-24.7	-25.2	1.20	-1.16	12.56
6,700.0	1.28	238.40	6,696.5	-26.1	-25.2	-25.5	0.10	-0.04	4.16
6,725.0	1.33	240.14	6,721.5	-26.4	-25.7	-25.8	0.26	0.20	6.96
6,750.0	1.24	240.49	6,746.5	-26.7	-26.2	-26.0	0.36	-0.36	1.40
6,775.0	1.23	239.69	6,771.5	-27.0	-26.6	-26.3	0.08	-0.04	-3.20
6,800.0	1.30	238.47	6,796.4	-27.3	-27.1	-26.6	0.30	0.28	-4.88
6,825.0	1.33	238.47	6,821.4	-27.6	-27.6	-26.9	0.12	0.12	0.00
6,850.0	1.35	239.22	6,846.4	-27.9	-28.1	-27.1	0.11	0.08	3.00
6,875.0	1.29	237.85	6,871.4	-28.2	-28.6	-27.4	0.27	-0.24	-5.48
6,900.0	1.27	239.89	6,896.4	-28.5	-29.1	-27.7	0.20	-0.08	8.16
6,925.0	1.32	240.72	6,921.4	-28.7	-29.6	-28.0	0.21	0.20	3.32
6,950.0	1.27	238.88	6,946.4	-29.0	-30.0	-28.3	0.26	-0.20	-7.36
6,975.0	1.26	238.79	6,971.4	-29.3	-30.5	-28.5	0.04	-0.04	-0.36
7,000.0	1.25	238.17	6,996.4	-29.6	-31.0	-28.8	0.07	-0.04	-2.48
7,025.0	1.28	238.18	7,021.4	-29.9	-31.5	-29.1	0.12	0.12	0.04
7,050.0	1.33	238.90	7,046.4	-30.2	-31.9	-29.4	0.21	0.20	2.88
7,075.0	1.52	243.48	7,071.4	-30.5	-32.5	-29.6	0.89	0.76	18.32
7,100.0	2.07	248.52	7,096.4	-30.8	-33.2	-29.9	2.29	2.20	20.16
7,125.0	2.48	250.72	7,121.3	-31.1	-34.1	-30.3	1.68	1.64	8.80
7,150.0	2.61	251.95	7,146.3	-31.5	-35.2	-30.6	0.56	0.52	4.92
7,175.0	2.63	251.75	7,171.3	-31.8	-36.3	-30.9	0.09	0.08	-0.80
7,200.0	2.69	252.79	7,196.3	-32.2	-37.4	-31.2	0.31	0.24	4.16
7,225.0	2.68	252.47	7,221.2	-32.5	-38.5	-31.6	0.07	-0.04	-1.28
7,228.8	2.67	252.30	7,225.0	-32.6	-38.7	-31.6	0.29	-0.20	-4.44
BYCN									
7,250.0	2.63	251.34	7,246.2	-32.9	-39.6	-31.9	0.29	-0.20	-4.53
7,275.0	2.64	251.14	7,271.2	-33.3	-40.7	-32.2	0.05	0.04	-0.80
7,300.0	2.64	250.96	7,296.2	-33.6	-41.8	-32.6	0.03	0.00	-0.72
7,325.0	2.67	252.41	7,321.1	-34.0	-42.9	-32.9	0.29	0.12	5.80
7,350.0	2.72	253.81	7,346.1	-34.4	-44.0	-33.2	0.33	0.20	5.60
7,375.0	2.64	253.76	7,371.1	-34.7	-45.1	-33.5	0.32	-0.32	-0.20
7,400.0	2.67	253.44	7,396.0	-35.0	-46.2	-33.8	0.13	0.12	-1.28
7,425.0	2.78	253.51	7,421.0	-35.3	-47.4	-34.1	0.44	0.44	0.28
7,450.0	2.79	252.17	7,446.0	-35.7	-48.5	-34.5	0.26	0.04	-5.36



Intrepid
Survey Report



Company:	Concho Resources, Inc.	Local Co-ordinate Reference:	Well Huckleberry State Com #506H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	KB @ 3740.5usft (Latshaw 44)
Site:	(Huckleberry State Com) Sec-27_T-21-S_R-33-E	MD Reference:	KB @ 3740.5usft (Latshaw 44)
Well:	Huckleberry State Com #506H	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)
7,475.0	2.79	252.09	7,471.0	-36.1	-49.7	-34.8	0.02	0.00	-0.32
7,500.0	2.75	253.00	7,495.9	-36.4	-50.8	-35.1	0.24	-0.16	3.64
7,525.0	2.77	252.32	7,520.9	-36.8	-52.0	-35.5	0.15	0.08	-2.72
7,550.0	2.88	249.12	7,545.9	-37.2	-53.1	-35.9	0.77	0.44	-12.80
7,575.0	3.08	239.57	7,570.8	-37.8	-54.3	-36.4	2.14	0.80	-38.20
7,600.0	3.23	233.11	7,595.8	-38.5	-55.5	-37.1	1.54	0.60	-25.84
7,625.0	3.24	231.68	7,620.8	-39.4	-56.6	-38.0	0.33	0.04	-5.72
7,650.0	3.26	230.74	7,645.7	-40.3	-57.7	-38.8	0.23	0.08	-3.76
7,675.0	3.29	230.63	7,670.7	-41.2	-58.8	-39.7	0.12	0.12	-0.44
7,700.0	3.31	230.23	7,695.6	-42.1	-59.9	-40.6	0.12	0.08	-1.60
7,725.0	3.29	229.81	7,720.6	-43.0	-61.0	-41.5	0.13	-0.08	-1.68
7,750.0	3.25	230.69	7,745.6	-43.9	-62.1	-42.4	0.26	-0.16	3.52
7,775.0	3.21	231.14	7,770.5	-44.8	-63.2	-43.2	0.19	-0.16	1.80
7,800.0	3.20	230.87	7,795.5	-45.7	-64.3	-44.1	0.07	-0.04	-1.08
7,825.0	3.22	230.82	7,820.4	-46.6	-65.4	-44.9	0.08	0.08	-0.20
7,850.0	3.16	231.83	7,845.4	-47.5	-66.4	-45.8	0.33	-0.24	4.04
7,875.0	3.10	231.71	7,870.4	-48.3	-67.5	-46.6	0.24	-0.24	-0.48
7,900.0	3.08	230.95	7,895.3	-49.1	-68.6	-47.4	0.18	-0.08	-3.04
7,925.0	2.98	232.71	7,920.3	-50.0	-69.6	-48.2	0.55	-0.40	7.04
7,950.0	2.28	241.10	7,945.3	-50.6	-70.6	-48.8	3.19	-2.80	33.56
7,975.0	1.62	256.76	7,970.2	-50.9	-71.3	-49.1	3.37	-2.64	62.64
8,000.0	1.38	260.59	7,995.2	-51.0	-72.0	-49.2	1.04	-0.96	15.32
8,025.0	1.39	261.42	8,020.2	-51.1	-72.6	-49.3	0.09	0.04	3.32
8,050.0	1.48	261.60	8,045.2	-51.2	-73.2	-49.4	0.36	0.36	0.72
8,075.0	1.45	260.66	8,070.2	-51.3	-73.8	-49.5	0.15	-0.12	-3.76
8,100.0	1.43	260.43	8,095.2	-51.4	-74.4	-49.5	0.08	-0.08	-0.92
8,125.0	1.58	251.43	8,120.2	-51.6	-75.1	-49.7	1.12	0.60	-36.00
8,150.0	2.02	237.55	8,145.2	-51.9	-75.8	-50.0	2.47	1.76	-55.52
8,175.0	2.39	230.99	8,170.2	-52.5	-76.6	-50.6	1.79	1.48	-26.24
8,200.0	2.43	229.03	8,195.1	-53.2	-77.4	-51.2	0.37	0.16	-7.84
8,225.0	2.45	228.90	8,220.1	-53.9	-78.2	-51.9	0.08	0.08	-0.52
8,250.0	2.49	229.77	8,245.1	-54.6	-79.0	-52.6	0.22	0.16	3.48
8,275.0	2.49	229.19	8,270.1	-55.3	-79.8	-53.3	0.10	0.00	-2.32
8,300.0	2.47	229.44	8,295.1	-56.0	-80.6	-54.0	0.09	-0.08	1.00
8,325.0	2.46	231.90	8,320.0	-56.7	-81.5	-54.6	0.43	-0.04	9.84
8,350.0	2.37	232.27	8,345.0	-57.3	-82.3	-55.2	0.37	-0.36	1.48
8,375.0	2.31	232.51	8,370.0	-57.9	-83.1	-55.8	0.24	-0.24	0.96
8,400.0	2.29	232.25	8,395.0	-58.6	-83.9	-56.4	0.09	-0.08	-1.04
8,425.0	2.28	231.44	8,419.9	-59.2	-84.7	-57.0	0.14	-0.04	-3.24
8,450.0	2.31	232.43	8,444.9	-59.8	-85.5	-57.6	0.20	0.12	3.96
8,475.0	2.30	231.97	8,469.9	-60.4	-86.3	-58.2	0.08	-0.04	-1.84
8,500.0	2.30	230.20	8,494.9	-61.0	-87.0	-58.8	0.28	0.00	-7.08
8,525.0	2.34	230.45	8,519.9	-61.7	-87.8	-59.5	0.17	0.16	1.00
8,550.0	2.33	231.01	8,544.8	-62.3	-88.6	-60.1	0.10	-0.04	2.24

Company:	Concho Resources, Inc.	Local Co-ordinate Reference:	Well Huckleberry State Com #506H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	KB @ 3740.5usft (Latshaw 44)
Site:	(Huckleberry State Com) Sec-27_T-21-S_R-33-E	MD Reference:	KB @ 3740.5usft (Latshaw 44)
Well:	Huckleberry State Com #506H	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)
8,575.0	2.31	230.78	8,569.8	-63.0	-89.4	-60.7	0.09	-0.08	-0.92
8,600.0	2.33	229.98	8,594.8	-63.6	-90.2	-61.3	0.15	0.08	-3.20
8,625.0	2.32	230.68	8,619.8	-64.3	-91.0	-62.0	0.12	-0.04	2.80
8,650.0	2.34	230.14	8,644.8	-64.9	-91.7	-62.6	0.12	0.08	-2.16
8,675.0	2.39	229.28	8,669.7	-65.6	-92.5	-63.2	0.25	0.20	-3.44
8,700.0	2.41	229.70	8,694.7	-66.3	-93.3	-63.9	0.11	0.08	1.68
8,725.0	2.44	230.85	8,719.7	-66.9	-94.1	-64.5	0.23	0.12	4.60
8,750.0	2.38	231.48	8,744.7	-67.6	-95.0	-65.2	0.26	-0.24	2.52
8,775.0	2.37	232.37	8,769.7	-68.2	-95.8	-65.8	0.15	-0.04	3.56
8,800.0	2.38	233.51	8,794.6	-68.9	-96.6	-66.4	0.19	0.04	4.56
8,816.4	2.35	234.28	8,811.0	-69.3	-97.1	-66.8	0.25	-0.16	4.69
Bone Spring (BSGL)									
8,825.0	2.34	234.69	8,819.6	-69.5	-97.4	-67.0	0.25	-0.16	4.77
8,850.0	2.32	236.06	8,844.6	-70.0	-98.3	-67.5	0.24	-0.08	5.48
8,875.0	2.33	235.17	8,869.6	-70.6	-99.1	-68.1	0.15	0.04	-3.56
8,900.0	2.36	234.85	8,894.6	-71.2	-99.9	-68.7	0.13	0.12	-1.28
8,925.0	2.39	236.32	8,919.5	-71.8	-100.8	-69.2	0.27	0.12	5.88
8,950.0	2.35	238.36	8,944.5	-72.3	-101.7	-69.8	0.37	-0.16	8.16
8,975.0	2.31	240.34	8,969.5	-72.9	-102.5	-70.3	0.36	-0.16	7.92
9,000.0	2.29	240.84	8,994.5	-73.3	-103.4	-70.7	0.11	-0.08	2.00
9,025.0	2.27	241.71	9,019.4	-73.8	-104.3	-71.2	0.16	-0.08	3.48
9,050.0	2.28	243.26	9,044.4	-74.3	-105.2	-71.6	0.25	0.04	6.20
9,075.0	2.30	244.18	9,069.4	-74.7	-106.1	-72.0	0.17	0.08	3.68
9,100.0	2.23	244.58	9,094.4	-75.2	-107.0	-72.4	0.29	-0.28	1.60
9,125.0	2.24	246.18	9,119.4	-75.6	-107.8	-72.8	0.25	0.04	6.40
9,150.0	2.15	249.24	9,144.4	-75.9	-108.7	-73.2	0.59	-0.36	12.24
9,175.0	2.09	252.35	9,169.3	-76.2	-109.6	-73.4	0.52	-0.24	12.44
9,200.0	2.11	252.73	9,194.3	-76.5	-110.5	-73.7	0.10	0.08	1.52
9,225.0	2.17	253.28	9,219.3	-76.8	-111.4	-74.0	0.25	0.24	2.20
9,250.0	2.28	250.99	9,244.3	-77.1	-112.3	-74.2	0.57	0.44	-9.16
9,264.7	2.45	247.36	9,259.0	-77.3	-112.9	-74.4	1.56	1.18	-24.66
U Avalon Sh									
9,275.0	2.58	245.12	9,269.3	-77.5	-113.3	-74.6	1.56	1.23	-21.79
9,300.0	2.89	241.67	9,294.2	-78.0	-114.3	-75.1	1.40	1.24	-13.80
9,325.0	3.04	240.36	9,319.2	-78.6	-115.5	-75.7	0.66	0.60	-5.24
9,350.0	3.12	240.21	9,344.2	-79.3	-116.6	-76.3	0.32	0.32	-0.60
9,375.0	3.17	241.44	9,369.1	-80.0	-117.8	-77.0	0.34	0.20	4.92
9,400.0	3.27	243.52	9,394.1	-80.6	-119.1	-77.6	0.62	0.40	8.32
9,404.9	3.29	243.62	9,399.0	-80.7	-119.3	-77.7	0.38	0.36	1.96
L Avalon Sh									
9,425.0	3.36	244.00	9,419.0	-81.3	-120.4	-78.2	0.38	0.36	1.91
9,450.0	3.39	244.06	9,444.0	-81.9	-121.7	-78.8	0.12	0.12	0.24
9,475.0	3.42	244.55	9,469.0	-82.5	-123.0	-79.4	0.17	0.12	1.96
9,500.0	3.42	245.07	9,493.9	-83.2	-124.4	-80.0	0.12	0.00	2.08



Intrepid
Survey Report



Company:	Concho Resources, Inc.	Local Co-ordinate Reference:	Well Huckleberry State Com #506H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	KB @ 3740.5usft (Latshaw 44)
Site:	(Huckleberry State Com) Sec-27_T-21-S_R-33-E	MD Reference:	KB @ 3740.5usft (Latshaw 44)
Well:	Huckleberry State Com #506H	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)
9,525.0	3.45	245.43	9,518.9	-83.8	-125.7	-80.6	0.15	0.12	1.44
9,550.0	3.08	244.52	9,543.8	-84.4	-127.0	-81.2	1.49	-1.48	-3.64
9,575.0	2.56	242.15	9,568.8	-85.0	-128.1	-81.7	2.13	-2.08	-9.48
9,600.0	2.22	239.30	9,593.8	-85.5	-129.0	-82.2	1.44	-1.36	-11.40
9,625.0	2.08	239.27	9,618.8	-85.9	-129.8	-82.7	0.56	-0.56	-0.12
9,650.0	2.06	237.58	9,643.7	-86.4	-130.6	-83.1	0.26	-0.08	-6.76
9,675.0	2.12	237.07	9,668.7	-86.9	-131.4	-83.6	0.25	0.24	-2.04
9,700.0	2.17	236.99	9,693.7	-87.4	-132.2	-84.1	0.20	0.20	-0.32
9,725.0	2.18	236.77	9,718.7	-87.9	-133.0	-84.6	0.05	0.04	-0.88
9,750.0	2.22	238.34	9,743.7	-88.5	-133.8	-85.1	0.29	0.16	6.28
9,775.0	2.17	238.50	9,768.6	-89.0	-134.6	-85.5	0.20	-0.20	0.64
9,800.0	2.07	240.13	9,793.6	-89.4	-135.4	-86.0	0.47	-0.40	6.52
9,825.0	1.96	240.41	9,818.6	-89.9	-136.1	-86.4	0.44	-0.44	1.12
9,850.0	1.87	242.98	9,843.6	-90.3	-136.9	-86.8	0.50	-0.36	10.28
9,875.0	1.75	245.05	9,868.6	-90.6	-137.6	-87.1	0.55	-0.48	8.28
9,900.0	1.63	245.98	9,893.6	-90.9	-138.3	-87.4	0.49	-0.48	3.72
9,904.4	1.63	246.57	9,898.0	-91.0	-138.4	-87.5	0.38	-0.01	13.31
B Avalon Sh									
9,925.0	1.63	249.31	9,918.6	-91.2	-138.9	-87.7	0.38	0.00	13.32
9,950.0	1.62	248.89	9,943.6	-91.4	-139.6	-87.9	0.06	-0.04	-1.68
9,975.0	1.53	249.52	9,968.5	-91.7	-140.2	-88.1	0.37	-0.36	2.52
10,000.0	1.51	248.37	9,993.5	-91.9	-140.8	-88.3	0.15	-0.08	-4.60
10,025.0	1.34	238.07	10,018.5	-92.2	-141.4	-88.6	1.23	-0.68	-41.20
10,050.0	1.22	225.36	10,043.5	-92.5	-141.8	-88.9	1.23	-0.48	-50.84
10,067.5	1.20	220.60	10,061.0	-92.8	-142.1	-89.2	0.59	-0.13	-27.24
FBSG_sand									
10,075.0	1.19	218.50	10,068.5	-92.9	-142.2	-89.3	0.59	-0.10	-27.90
10,100.0	1.15	215.17	10,093.5	-93.3	-142.5	-89.7	0.32	-0.16	-13.32
10,125.0	1.16	216.82	10,118.5	-93.7	-142.8	-90.1	0.14	0.04	6.60
10,150.0	1.19	214.88	10,143.5	-94.2	-143.1	-90.5	0.20	0.12	-7.76
10,175.0	1.16	207.96	10,168.5	-94.6	-143.4	-91.0	0.58	-0.12	-27.68
10,200.0	1.41	211.11	10,193.5	-95.1	-143.6	-91.4	1.04	1.00	12.60
10,225.0	1.90	213.46	10,218.5	-95.7	-144.0	-92.0	1.98	1.96	9.40
10,250.0	2.36	212.87	10,243.5	-96.5	-144.5	-92.8	1.84	1.84	-2.36
10,263.3	2.57	212.72	10,256.7	-96.9	-144.8	-93.3	1.58	1.58	-1.13
Tie to SDI Gyro									
10,305.0	2.90	212.43	10,298.4	-98.6	-145.9	-94.9	0.79	0.79	-0.69
10,337.0	2.99	211.69	10,330.4	-100.0	-146.8	-96.3	0.31	0.28	-2.31
10,368.0	2.91	214.57	10,361.3	-101.4	-147.7	-97.6	0.54	-0.26	9.29
10,399.0	2.40	224.05	10,392.3	-102.5	-148.6	-98.7	2.17	-1.65	30.58
10,431.0	2.31	296.14	10,424.3	-102.7	-149.6	-98.9	8.66	-0.28	225.28
10,462.0	4.95	330.38	10,455.2	-101.2	-150.8	-97.4	10.66	8.52	110.45
10,493.0	7.85	340.41	10,486.0	-98.1	-152.2	-94.2	9.99	9.35	32.35



Intrepid
Survey Report



Company:	Concho Resources, Inc.	Local Co-ordinate Reference:	Well Huckleberry State Com #506H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	KB @ 3740.5usft (Latshaw 44)
Site:	(Huckleberry State Com) Sec-27_T-21-S_R-33-E	MD Reference:	KB @ 3740.5usft (Latshaw 44)
Well:	Huckleberry State Com #506H	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)
10,524.0	11.56	350.54	10,516.6	-93.0	-153.4	-89.1	13.13	11.97	32.68
10,556.0	14.54	352.49	10,547.7	-85.9	-154.5	-82.0	9.41	9.31	6.09
10,587.0	17.41	351.53	10,577.5	-77.4	-155.7	-73.5	9.30	9.26	-3.10
10,611.8	20.50	351.55	10,601.0	-69.4	-156.8	-65.5	12.45	12.45	0.10
SBSG_sand									
10,618.0	21.27	351.56	10,606.8	-67.3	-157.2	-63.3	12.45	12.45	0.08
10,650.0	24.97	351.90	10,636.2	-54.8	-159.0	-50.8	11.57	11.56	1.06
10,681.0	28.34	352.15	10,663.9	-41.1	-160.9	-37.0	10.88	10.87	0.81
10,713.0	32.62	352.18	10,691.5	-25.0	-163.1	-20.9	13.38	13.38	0.09
10,744.0	36.20	352.49	10,717.0	-7.6	-165.4	-3.5	11.56	11.55	1.00
10,775.0	39.74	352.68	10,741.5	11.3	-167.9	15.5	11.43	11.42	0.61
10,807.0	44.25	352.81	10,765.3	32.5	-170.6	36.8	14.10	14.09	0.41
10,838.0	47.77	354.22	10,786.8	54.7	-173.1	59.0	11.82	11.35	4.55
10,869.0	50.12	355.30	10,807.1	78.0	-175.2	82.3	8.02	7.58	3.48
10,901.0	50.28	355.72	10,827.6	102.5	-177.2	106.9	1.13	0.50	1.31
10,932.0	52.15	356.38	10,847.0	126.6	-178.8	131.0	6.26	6.03	2.13
10,954.0	53.14	358.41	10,860.4	144.0	-179.6	148.5	8.61	4.50	9.24
Enter lease at 10954'MD, 333'FEL									
10,964.0	53.60	359.32	10,866.4	152.1	-179.8	156.5	8.61	4.61	9.07
10,995.0	56.09	359.92	10,884.2	177.4	-179.9	181.9	8.19	8.03	1.94
11,027.0	58.06	358.63	10,901.6	204.3	-180.3	208.7	7.02	6.16	-4.03
11,058.0	60.61	357.22	10,917.4	230.9	-181.3	235.4	9.11	8.23	-4.55
11,090.0	61.43	356.86	10,932.9	258.9	-182.7	263.4	2.74	2.56	-1.13
11,121.0	63.35	357.88	10,947.3	286.3	-184.0	290.8	6.85	6.19	3.29
11,153.0	65.95	359.38	10,961.0	315.2	-184.7	319.7	9.16	8.13	4.69
11,184.0	66.93	359.37	10,973.4	343.6	-185.0	348.2	3.16	3.16	-0.03
11,216.0	68.87	358.65	10,985.4	373.3	-185.5	377.8	6.41	6.06	-2.25
11,247.0	71.94	358.54	10,995.8	402.5	-186.2	407.0	9.91	9.90	-0.35
11,279.0	76.07	2.03	11,004.6	433.2	-186.0	437.7	16.63	12.91	10.91
11,311.0	77.79	3.68	11,011.9	464.3	-184.5	468.8	7.36	5.38	5.16
11,320.8	78.60	3.87	11,013.9	473.9	-183.8	478.4	8.47	8.26	1.91
FTP @ 11320.8'MD, 330'FSL & 334.7'FEL									
11,342.0	80.35	4.27	11,017.7	494.7	-182.4	499.1	8.47	8.26	1.90
11,374.0	82.62	4.51	11,022.5	526.2	-179.9	530.6	7.13	7.09	0.75
11,405.0	84.12	3.01	11,026.1	557.0	-177.9	561.3	6.82	4.84	-4.84
11,437.0	86.74	1.46	11,028.6	588.8	-176.7	593.1	9.50	8.19	-4.84
11,531.0	94.07	358.64	11,027.9	682.8	-176.6	687.0	8.35	7.80	-3.00
11,626.0	93.37	358.72	11,021.8	777.5	-178.8	781.8	0.74	-0.74	0.08
11,720.0	91.17	358.41	11,018.1	871.4	-181.1	875.7	2.36	-2.34	-0.33
11,815.0	92.72	358.38	11,014.8	966.3	-183.8	970.7	1.63	1.63	-0.03
11,909.0	91.87	359.24	11,011.1	1,060.2	-185.7	1,064.6	1.29	-0.90	0.91
12,004.0	90.75	359.32	11,008.9	1,155.2	-186.9	1,159.5	1.18	-1.18	0.08
12,098.0	92.65	359.46	11,006.1	1,249.2	-187.9	1,253.5	2.03	2.02	0.15
12,192.0	91.55	358.59	11,002.7	1,343.1	-189.5	1,347.4	1.49	-1.17	-0.93



Company:	Concho Resources, Inc.	Local Co-ordinate Reference:	Well Huckleberry State Com #506H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	KB @ 3740.5usft (Latshaw 44)
Site:	(Huckleberry State Com) Sec-27_T-21-S_R-33-E	MD Reference:	KB @ 3740.5usft (Latshaw 44)
Well:	Huckleberry State Com #506H	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)
12,286.0	90.23	359.03	11,001.2	1,437.0	-191.5	1,441.4	1.48	-1.40	0.47
12,381.0	91.69	359.17	10,999.6	1,532.0	-193.0	1,536.4	1.54	1.54	0.15
12,475.0	93.55	358.94	10,995.3	1,625.9	-194.5	1,630.3	1.99	1.98	-0.24
12,569.0	92.73	358.70	10,990.2	1,719.7	-196.5	1,724.1	0.91	-0.87	-0.26
12,664.0	91.06	359.12	10,987.0	1,814.7	-198.3	1,819.1	1.81	-1.76	0.44
12,758.0	89.83	359.61	10,986.3	1,908.7	-199.3	1,913.1	1.41	-1.31	0.52
12,853.0	91.04	359.53	10,985.6	2,003.6	-200.0	2,008.0	1.28	1.27	-0.08
12,882.0	91.63	359.74	10,984.9	2,032.6	-200.2	2,037.0	2.16	2.03	0.72
12,976.0	91.37	1.07	10,982.4	2,126.6	-199.5	2,130.9	1.44	-0.28	1.41
13,071.0	91.76	1.64	10,979.8	2,221.5	-197.3	2,225.8	0.73	0.41	0.60
13,166.0	93.10	2.74	10,975.8	2,316.4	-193.7	2,320.5	1.82	1.41	1.16
13,261.0	91.72	1.55	10,971.8	2,411.2	-190.1	2,415.2	1.92	-1.45	-1.25
13,355.0	90.23	358.72	10,970.2	2,505.2	-189.9	2,509.2	3.40	-1.59	-3.01
13,450.0	91.83	357.95	10,968.5	2,600.1	-192.7	2,604.2	1.87	1.68	-0.81
13,545.0	92.76	357.45	10,964.7	2,695.0	-196.5	2,699.1	1.11	0.98	-0.53
13,640.0	91.47	358.64	10,961.2	2,789.9	-199.7	2,794.0	1.85	-1.36	1.25
13,734.0	92.29	359.22	10,958.1	2,883.8	-201.5	2,887.9	1.07	0.87	0.62
13,827.0	93.97	358.75	10,953.0	2,976.6	-203.1	2,980.8	1.88	1.81	-0.51
13,921.0	92.10	359.51	10,948.1	3,070.5	-204.5	3,074.7	2.15	-1.99	0.81
14,016.0	91.43	359.29	10,945.1	3,165.4	-205.5	3,169.6	0.74	-0.71	-0.23
14,110.0	92.58	359.93	10,941.9	3,259.4	-206.2	3,263.5	1.40	1.22	0.68
14,203.0	91.28	0.32	10,938.7	3,352.3	-206.0	3,356.4	1.46	-1.40	0.42
14,297.0	89.64	0.48	10,938.0	3,446.3	-205.3	3,450.4	1.75	-1.74	0.17
14,390.0	90.56	0.75	10,937.8	3,539.3	-204.3	3,543.3	1.03	0.99	0.29
14,484.0	91.43	0.57	10,936.2	3,633.3	-203.2	3,637.2	0.95	0.93	-0.19
14,577.0	92.27	0.91	10,933.2	3,726.2	-202.0	3,730.1	0.97	0.90	0.37
14,671.0	91.76	1.08	10,929.9	3,820.2	-200.4	3,824.0	0.57	-0.54	0.18
14,766.0	90.91	358.98	10,927.6	3,915.1	-200.3	3,918.9	2.38	-0.89	-2.21
14,859.0	92.40	358.81	10,925.0	4,008.1	-202.1	4,011.9	1.61	1.60	-0.18
14,953.0	94.11	359.47	10,919.6	4,101.9	-203.5	4,105.7	1.95	1.82	0.70
15,048.0	93.00	359.50	10,913.7	4,196.7	-204.4	4,200.5	1.17	-1.17	0.03
15,143.0	91.25	358.52	10,910.2	4,291.6	-206.0	4,295.4	2.11	-1.84	-1.03
15,237.0	89.68	358.23	10,909.4	4,385.6	-208.7	4,389.4	1.70	-1.67	-0.31
15,331.0	90.94	357.49	10,908.9	4,479.5	-212.2	4,483.4	1.55	1.34	-0.79
15,425.0	90.60	357.90	10,907.7	4,573.4	-216.0	4,577.4	0.57	-0.36	0.44
15,520.0	91.77	358.25	10,905.7	4,668.3	-219.2	4,672.4	1.29	1.23	0.37
15,615.0	93.40	358.44	10,901.4	4,763.2	-221.9	4,767.3	1.73	1.72	0.20
15,709.0	92.44	358.07	10,896.6	4,857.0	-224.8	4,861.2	1.09	-1.02	-0.39
15,803.0	91.83	357.14	10,893.1	4,950.9	-228.7	4,955.1	1.18	-0.65	-0.99
15,898.0	91.27	358.01	10,890.6	5,045.8	-232.7	5,050.0	1.09	-0.59	0.92
15,991.0	91.59	359.02	10,888.2	5,138.7	-235.1	5,143.0	1.14	0.34	1.09
16,086.0	90.76	0.00	10,886.3	5,233.7	-235.9	5,238.0	1.35	-0.87	1.03
16,181.0	91.55	0.01	10,884.4	5,328.7	-235.9	5,332.9	0.83	0.83	0.01
16,275.0	92.31	358.78	10,881.2	5,422.6	-236.9	5,426.8	1.54	0.81	-1.31



Company:	Concho Resources, Inc.	Local Co-ordinate Reference:	Well Huckleberry State Com #506H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	KB @ 3740.5usft (Latshaw 44)
Site:	(Huckleberry State Com) Sec-27_T-21-S_R-33-E	MD Reference:	KB @ 3740.5usft (Latshaw 44)
Well:	Huckleberry State Com #506H	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)
16,370.0	91.53	358.97	10,878.0	5,517.5	-238.8	5,521.8	0.85	-0.82	0.20
16,465.0	89.23	359.83	10,877.4	5,612.5	-239.8	5,616.8	2.58	-2.42	0.91
16,559.0	88.34	1.30	10,879.4	5,706.5	-238.9	5,710.7	1.83	-0.95	1.56
16,654.0	89.35	1.77	10,881.3	5,801.4	-236.3	5,805.5	1.17	1.06	0.49
16,748.0	88.44	1.42	10,883.1	5,895.4	-233.7	5,899.4	1.04	-0.97	-0.37
16,843.0	88.61	1.93	10,885.6	5,990.3	-230.9	5,994.2	0.57	0.18	0.54
16,938.0	87.90	0.65	10,888.5	6,085.2	-228.8	6,089.1	1.54	-0.75	-1.35
17,032.0	87.49	359.65	10,892.2	6,179.2	-228.5	6,183.0	1.15	-0.44	-1.06
17,127.0	89.07	0.47	10,895.1	6,274.1	-228.4	6,277.9	1.87	1.66	0.86
17,222.0	90.46	0.96	10,895.5	6,369.1	-227.3	6,372.8	1.55	1.46	0.52
17,316.0	90.32	0.03	10,894.8	6,463.1	-226.4	6,466.7	1.00	-0.15	-0.99
17,411.0	90.86	359.59	10,893.9	6,558.1	-226.8	6,561.7	0.73	0.57	-0.46
17,506.0	92.79	0.96	10,890.8	6,653.0	-226.3	6,656.6	2.49	2.03	1.44
17,600.0	91.67	1.31	10,887.2	6,746.9	-224.4	6,750.5	1.25	-1.19	0.37
17,695.0	89.79	0.60	10,886.0	6,841.9	-222.9	6,845.4	2.12	-1.98	-0.75
17,790.0	89.01	359.11	10,887.0	6,936.9	-223.1	6,940.3	1.77	-0.82	-1.57
17,885.0	89.72	358.43	10,888.0	7,031.9	-225.1	7,035.3	1.03	0.75	-0.72
17,980.0	90.25	356.50	10,888.0	7,126.8	-229.3	7,130.3	2.11	0.56	-2.03
18,074.0	90.82	356.46	10,887.2	7,220.6	-235.1	7,224.2	0.61	0.61	-0.04
18,163.0	91.56	357.77	10,885.3	7,309.5	-239.6	7,313.2	1.69	0.83	1.47
18,258.0	89.98	2.50	10,884.0	7,404.4	-239.4	7,408.1	5.25	-1.66	4.98
18,353.0	87.42	2.41	10,886.2	7,499.3	-235.3	7,502.9	2.70	-2.69	-0.09
18,448.0	89.50	2.46	10,888.8	7,594.2	-231.3	7,597.6	2.19	2.19	0.05
18,542.0	88.99	1.66	10,890.0	7,688.1	-227.9	7,691.4	1.01	-0.54	-0.85
18,637.0	89.41	0.26	10,891.3	7,783.1	-226.3	7,786.3	1.54	0.44	-1.47
18,732.0	89.15	359.69	10,892.5	7,878.1	-226.3	7,881.3	0.66	-0.27	-0.60
18,826.0	91.39	359.12	10,892.1	7,972.1	-227.3	7,975.3	2.46	2.38	-0.61
18,920.0	92.52	359.50	10,888.9	8,066.0	-228.4	8,069.2	1.27	1.20	0.40
19,007.0	92.79	359.33	10,884.8	8,152.9	-229.3	8,156.1	0.37	0.31	-0.20
19,101.0	89.47	359.17	10,883.0	8,246.9	-230.6	8,250.1	3.54	-3.53	-0.17
19,196.0	88.72	358.75	10,884.5	8,341.8	-232.3	8,345.0	0.90	-0.79	-0.44
19,291.0	89.44	358.80	10,886.0	8,436.8	-234.3	8,440.0	0.76	0.76	0.05
19,385.0	88.00	358.52	10,888.1	8,530.7	-236.5	8,534.0	1.56	-1.53	-0.30
19,480.0	88.54	358.42	10,891.0	8,625.7	-239.0	8,629.0	0.58	0.57	-0.11
19,575.0	88.58	358.95	10,893.4	8,720.6	-241.2	8,723.9	0.56	0.04	0.56
19,670.0	90.04	358.83	10,894.5	8,815.6	-243.1	8,818.9	1.54	1.54	-0.13
19,765.0	90.20	358.90	10,894.3	8,910.6	-244.9	8,913.9	0.18	0.17	0.07
19,859.0	90.09	359.12	10,894.1	9,004.6	-246.6	9,007.9	0.26	-0.12	0.23
19,952.0	91.62	358.92	10,892.7	9,097.5	-248.2	9,100.9	1.66	1.65	-0.22
20,048.0	92.00	359.45	10,889.6	9,193.5	-249.5	9,196.8	0.68	0.40	0.55
20,142.0	91.62	359.48	10,886.7	9,287.4	-250.4	9,290.8	0.41	-0.40	0.03
20,247.0	88.79	359.23	10,886.3	9,392.4	-251.6	9,395.8	2.71	-2.70	-0.24
20,341.0	88.99	358.90	10,888.1	9,486.4	-253.1	9,489.7	0.41	0.21	-0.35



Company:	Concho Resources, Inc.	Local Co-ordinate Reference:	Well Huckleberry State Com #506H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	KB @ 3740.5usft (Latshaw 44)
Site:	(Huckleberry State Com) Sec-27_T-21-S_R-33-E	MD Reference:	KB @ 3740.5usft (Latshaw 44)
Well:	Huckleberry State Com #506H	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)
20,436.0	89.60	359.08	10,889.3	9,581.3	-254.8	9,584.7	0.67	0.64	0.19
20,531.0	89.94	359.37	10,889.7	9,676.3	-256.1	9,679.7	0.47	0.36	0.31
20,626.0	90.29	359.35	10,889.5	9,771.3	-257.1	9,774.7	0.37	0.37	-0.02
20,721.0	90.88	359.33	10,888.5	9,866.3	-258.2	9,869.7	0.62	0.62	-0.02
20,815.0	91.65	359.70	10,886.4	9,960.3	-259.0	9,963.7	0.91	0.82	0.39
20,910.0	91.86	0.11	10,883.5	10,055.2	-259.2	10,058.6	0.48	0.22	0.43
21,005.0	92.27	359.98	10,880.1	10,150.2	-259.1	10,153.5	0.45	0.43	-0.14
21,100.0	92.95	0.34	10,875.8	10,245.1	-258.8	10,248.4	0.81	0.72	0.38
21,195.0	93.43	0.39	10,870.5	10,339.9	-258.2	10,343.2	0.51	0.51	0.05
21,223.2	93.59	0.46	10,868.8	10,368.1	-258.0	10,371.3	0.62	0.57	0.25
LTP @ 21223.2'MD, 330°FNL & 331°FEL									
21,288.0	93.96	0.62	10,864.5	10,432.7	-257.4	10,435.9	0.62	0.57	0.25
LAST SVY									
21,350.0	93.96	0.62	10,860.2	10,494.6	-256.8	10,497.7	0.00	0.00	0.00
Projection to TD @ 21350'MD, 203.5°FNL & 328.8°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									
LTP (Huckleberry Stal	0.00	0.00	10,865.0	10,368.1	-263.0	541,032.00	736,829.90	32° 29' 6.232 N	103° 33' 55.051 W
- actual wellpath misses target center by 6.2usft at 21223.4usft MD (10868.8 TVD, 10368.3 N, -258.0 E)									
- Point									
PBHL (Huckleberry St	-1.34	359.54	10,865.0	10,498.0	-264.1	541,161.90	736,828.80	32° 29' 7.518 N	103° 33' 55.053 W
- actual wellpath misses target center by 9.4usft at 21350.0usft MD (10860.2 TVD, 10494.6 N, -256.8 E)									
- Rectangle (sides W60.0 H1,413.9 D30.0)									
WP1 (Huckleberry St	-1.78	359.54	10,886.0	5,151.1	-221.2	535,815.00	736,871.72	32° 28' 14.606 N	103° 33' 55.001 W
- actual wellpath misses target center by 14.3usft at 16003.3usft MD (10887.9 TVD, 5151.0 N, -235.3 E)									
- Rectangle (sides W60.0 H4,679.0 D30.0)									
WP2 (Huckleberry St	0.18	359.54	10,897.0	9,084.5	-252.8	539,748.40	736,840.14	32° 28' 53.530 N	103° 33' 55.039 W
- actual wellpath misses target center by 6.3usft at 19939.0usft MD (10893.0 TVD, 9084.5 N, -247.9 E)									
- Rectangle (sides W60.0 H3,933.6 D30.0)									
FTP (Huckleberry Sta	0.00	0.00	11,011.0	473.9	-184.2	531,137.80	736,908.70	32° 27' 28.322 N	103° 33' 54.962 W
- actual wellpath misses target center by 2.8usft at 11320.2usft MD (11013.7 TVD, 473.3 N, -183.9 E)									
- Point									



Intrepid
Survey Report



Company:	Concho Resources, Inc.	Local Co-ordinate Reference:	Well Huckleberry State Com #506H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	KB @ 3740.5usft (Latshaw 44)
Site:	(Huckleberry State Com) Sec-27_T-21-S_R-33-E	MD Reference:	KB @ 3740.5usft (Latshaw 44)
Well:	Huckleberry State Com #506H	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 (°)
1,806.7	1,806.0	Rustler			
1,900.9	1,900.0	TOS			
3,541.6	3,540.0	BOS / Tansill			
3,736.8	3,735.0	Yates			
3,804.8	3,803.0	Seven Rivers			
3,962.8	3,961.0	Capitan Reef			
5,359.8	5,358.0	Base of Reef (BLCN)			
5,810.0	5,808.0	CYCN			
7,228.8	7,225.0	BYCN			
8,816.4	8,811.0	Bone Spring (BSGL)			
9,264.7	9,259.0	U Avalon Sh			
9,404.9	9,399.0	L Avalon Sh			
9,904.4	9,898.0	B Avalon Sh			
10,067.5	10,061.0	FBSG_sand			
10,611.8	10,601.0	SBSG_sand			

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
10,263.3	10,256.7	-96.9	-144.8	Tie to SDI Gyro
10,954.0	10,860.4	144.0	-179.6	Enter lease at 10954'MD, 333'FEL
11,320.8	11,013.9	473.9	-183.8	FTP @ 11320.8'MD, 330'FSL & 334.7'FEL
21,223.2	10,868.8	10,368.1	-258.0	LTP @ 21223.2'MD, 330'FNL & 331'FEL
21,288.0	10,864.5	10,432.7	-257.4	LAST SVY
21,350.0	10,860.2	10,494.6	-256.8	Projection to TD @ 21350'MD, 203.5'FNL & 328.8'FEL

Checked By: _____	Approved By: _____	Date: _____
-------------------	--------------------	-------------