

DELAWARE BASIN EAST

**LEA COUNTY, NM (NM - E)
SEBASTIAN FED COM PROJECT
SEBASTIAN FEDERAL COM 704H**

OWB

Design: AWP

Standard Survey Report

04 May, 2020

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well SEBASTIAN FEDERAL COM 704H
Project:	LEA COUNTY, NM (NM - E)	TVD Reference:	KB=30' @ 3615.8usft (SCAN QUEST)
Site:	SEBASTIAN FED COM PROJECT	MD Reference:	KB=30' @ 3615.8usft (SCAN QUEST)
Well:	SEBASTIAN FEDERAL COM 704H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWP	Database:	edm

Project	LEA COUNTY, NM (NM - E)		
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		

Well	SEBASTIAN FEDERAL COM 704H, ACTIVE				
Well Position	+N/-S	0.0 usft	Northing:	446,197.40 usft	Latitude: 32° 13' 26.450 N
	+E/-W	0.0 usft	Easting:	755,473.60 usft	Longitude: 103° 30' 25.950 W
Position Uncertainty		3.0 usft	Wellhead Elevation:	usft	Ground Level: 3,585.8 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	4/16/2020	6.62	60.03	47,652.36124212

Design	AWP				
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	180.20	

Survey Program	Date	5/4/2020			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.0	11,220.0	GYRO-INTERMEDIATE (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4	
11,417.0	17,011.0	MWD-CURVE/LAT (OWB)	MWD+IFR1+FDIR	OWSG MWD + IFR1 + FDIR 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	1.02	352.71	100.0	0.9	-0.1	-0.9	1.02	1.02	0.00	
125.0	1.08	0.27	125.0	1.3	-0.1	-1.3	0.60	0.24	30.24	
150.0	1.18	7.03	150.0	1.8	-0.1	-1.8	0.67	0.40	27.04	
175.0	1.23	3.87	175.0	2.4	-0.1	-2.4	0.33	0.20	-12.64	
200.0	1.29	358.24	200.0	2.9	0.0	-2.9	0.55	0.24	-22.52	
225.0	1.28	357.10	225.0	3.5	-0.1	-3.5	0.11	-0.04	-4.56	
250.0	1.20	356.51	250.0	4.0	-0.1	-4.0	0.32	-0.32	-2.36	
275.0	1.04	358.38	275.0	4.5	-0.1	-4.5	0.66	-0.64	7.48	
300.0	1.10	5.40	300.0	5.0	-0.1	-5.0	0.58	0.24	28.08	
325.0	1.12	10.89	324.9	5.4	0.0	-5.4	0.43	0.08	21.96	
350.0	1.20	6.15	349.9	5.9	0.0	-5.9	0.50	0.32	-18.96	
375.0	1.07	4.86	374.9	6.4	0.1	-6.4	0.53	-0.52	-5.16	
400.0	0.70	358.50	399.9	6.8	0.1	-6.8	1.53	-1.48	-25.44	
425.0	0.47	357.71	424.9	7.1	0.1	-7.1	0.92	-0.92	-3.16	

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Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWP	Database:	edm

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)
450.0	0.48	10.05	449.9	7.3	0.1	-7.3	0.41	0.04	49.36
475.0	0.57	9.00	474.9	7.5	0.1	-7.5	0.36	0.36	-4.20
500.0	0.65	3.18	499.9	7.8	0.2	-7.8	0.40	0.32	-23.28
525.0	0.61	358.78	524.9	8.0	0.2	-8.0	0.25	-0.16	-17.60
550.0	0.41	359.31	549.9	8.3	0.2	-8.3	0.80	-0.80	2.12
575.0	0.35	4.29	574.9	8.4	0.2	-8.4	0.27	-0.24	19.92
600.0	0.41	27.33	599.9	8.6	0.2	-8.6	0.65	0.24	92.16
625.0	0.43	27.95	624.9	8.7	0.3	-8.7	0.08	0.08	2.48
650.0	0.42	19.84	649.9	8.9	0.4	-8.9	0.24	-0.04	-32.44
675.0	0.36	4.91	674.9	9.1	0.4	-9.1	0.47	-0.24	-59.72
700.0	0.24	358.81	699.9	9.2	0.4	-9.2	0.50	-0.48	-24.40
725.0	0.25	29.10	724.9	9.3	0.5	-9.3	0.51	0.04	121.16
750.0	0.38	35.54	749.9	9.4	0.5	-9.4	0.54	0.52	25.76
775.0	0.49	25.06	774.9	9.6	0.6	-9.6	0.54	0.44	-41.92
800.0	0.47	8.76	799.9	9.8	0.7	-9.8	0.55	-0.08	-65.20
825.0	0.34	11.53	824.9	10.0	0.7	-10.0	0.53	-0.52	11.08
850.0	0.29	25.86	849.9	10.1	0.8	-10.1	0.37	-0.20	57.32
875.0	0.35	34.32	874.9	10.2	0.8	-10.2	0.30	0.24	33.84
900.0	0.47	31.38	899.9	10.4	0.9	-10.4	0.49	0.48	-11.76
925.0	0.47	18.52	924.9	10.5	1.0	-10.5	0.42	0.00	-51.44
950.0	0.43	12.68	949.9	10.7	1.1	-10.7	0.24	-0.16	-23.36
975.0	0.37	18.37	974.9	10.9	1.1	-10.9	0.29	-0.24	22.76
1,000.0	0.37	19.54	999.9	11.1	1.2	-11.1	0.03	0.00	4.68
1,025.0	0.63	19.29	1,024.9	11.3	1.2	-11.3	1.04	1.04	-1.00
1,050.0	0.83	20.33	1,049.9	11.6	1.3	-11.6	0.80	0.80	4.16
1,075.0	0.89	12.71	1,074.9	11.9	1.4	-11.9	0.52	0.24	-30.48
1,100.0	0.83	7.18	1,099.9	12.3	1.5	-12.3	0.41	-0.24	-22.12
1,125.0	0.74	11.80	1,124.9	12.6	1.6	-12.6	0.44	-0.36	18.48
1,150.0	0.68	18.17	1,149.9	12.9	1.6	-12.9	0.40	-0.24	25.48
1,175.0	0.68	17.86	1,174.9	13.2	1.7	-13.2	0.01	0.00	-1.24
1,200.0	0.70	13.27	1,199.9	13.5	1.8	-13.5	0.24	0.08	-18.36
1,225.0	0.71	1.60	1,224.9	13.8	1.9	-13.8	0.57	0.04	-46.68
1,250.0	0.63	358.90	1,249.9	14.1	1.9	-14.1	0.34	-0.32	-10.80
1,275.0	0.42	0.50	1,274.9	14.3	1.9	-14.3	0.84	-0.84	6.40
1,300.0	0.28	27.78	1,299.9	14.5	1.9	-14.5	0.86	-0.56	109.12
1,325.0	0.22	24.33	1,324.9	14.6	1.9	-14.6	0.25	-0.24	-13.80
1,350.0	0.26	10.21	1,349.9	14.7	2.0	-14.7	0.28	0.16	-56.48
1,375.0	0.17	345.83	1,374.9	14.8	2.0	-14.8	0.51	-0.36	-97.52
1,400.0	0.09	308.49	1,399.9	14.8	1.9	-14.8	0.45	-0.32	-149.36
1,425.0	0.13	47.48	1,424.9	14.8	1.9	-14.8	0.68	0.16	395.96
1,450.0	0.21	27.61	1,449.9	14.9	2.0	-14.9	0.39	0.32	-79.48
1,475.0	0.28	346.59	1,474.9	15.0	2.0	-15.0	0.74	0.28	-164.08
1,500.0	0.37	338.89	1,499.9	15.1	2.0	-15.1	0.40	0.36	-30.80

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1,525.0	0.35	337.01	1,524.9	15.3	1.9	-15.3	0.09	-0.08	-7.52	
1,550.0	0.33	354.49	1,549.9	15.4	1.9	-15.4	0.42	-0.08	69.92	
1,575.0	0.44	356.28	1,574.9	15.6	1.8	-15.6	0.44	0.44	7.16	
1,600.0	0.63	344.16	1,599.9	15.8	1.8	-15.8	0.88	0.76	-48.48	
1,625.0	0.64	332.44	1,624.9	16.1	1.7	-16.1	0.52	0.04	-46.88	
1,650.0	0.56	327.74	1,649.9	16.3	1.6	-16.3	0.38	-0.32	-18.80	
1,675.0	0.45	334.30	1,674.9	16.5	1.5	-16.5	0.50	-0.44	26.24	
1,700.0	0.52	345.76	1,699.9	16.7	1.4	-16.7	0.48	0.28	45.84	
1,725.0	0.56	339.28	1,724.9	16.9	1.3	-16.9	0.29	0.16	-25.92	
1,750.0	0.58	316.78	1,749.9	17.1	1.2	-17.1	0.89	0.08	-90.00	
1,775.0	0.64	302.29	1,774.9	17.3	1.0	-17.3	0.66	0.24	-57.96	
1,800.0	1.12	266.77	1,799.9	17.3	0.6	-17.3	2.82	1.92	-142.08	
1,825.0	1.86	250.26	1,824.9	17.2	0.0	-17.2	3.39	2.96	-66.04	
1,850.0	2.14	245.71	1,849.9	16.9	-0.8	-16.9	1.29	1.12	-18.20	
1,875.0	2.18	243.31	1,874.8	16.5	-1.7	-16.5	0.40	0.16	-9.60	
1,900.0	2.14	241.83	1,899.8	16.0	-2.5	-16.0	0.27	-0.16	-5.92	
1,925.0	2.04	243.74	1,924.8	15.6	-3.3	-15.6	0.49	-0.40	7.64	
1,950.0	2.04	245.36	1,949.8	15.2	-4.1	-15.2	0.23	0.00	6.48	
1,975.0	2.10	246.90	1,974.8	14.9	-4.9	-14.8	0.33	0.24	6.16	
2,000.0	2.09	246.59	1,999.8	14.5	-5.8	-14.5	0.06	-0.04	-1.24	
2,025.0	2.18	247.73	2,024.7	14.1	-6.6	-14.1	0.40	0.36	4.56	
2,050.0	2.21	246.92	2,049.7	13.8	-7.5	-13.7	0.17	0.12	-3.24	
2,075.0	2.29	243.84	2,074.7	13.4	-8.4	-13.3	0.58	0.32	-12.32	
2,100.0	2.19	240.79	2,099.7	12.9	-9.3	-12.9	0.62	-0.40	-12.20	
2,125.0	2.05	243.23	2,124.7	12.5	-10.1	-12.4	0.67	-0.56	9.76	
2,150.0	2.14	246.42	2,149.6	12.1	-10.9	-12.0	0.59	0.36	12.76	
2,175.0	2.25	247.40	2,174.6	11.7	-11.8	-11.7	0.46	0.44	3.92	
2,200.0	2.22	246.03	2,199.6	11.3	-12.7	-11.3	0.25	-0.12	-5.48	
2,225.0	2.12	246.49	2,224.6	10.9	-13.6	-10.9	0.41	-0.40	1.84	
2,250.0	2.13	250.04	2,249.6	10.6	-14.4	-10.6	0.53	0.04	14.20	
2,275.0	2.29	250.22	2,274.6	10.3	-15.3	-10.2	0.64	0.64	0.72	
2,300.0	2.29	247.07	2,299.5	9.9	-16.3	-9.9	0.50	0.00	-12.60	
2,325.0	2.14	247.14	2,324.5	9.5	-17.1	-9.5	0.60	-0.60	0.28	
2,350.0	2.14	250.92	2,349.5	9.2	-18.0	-9.1	0.56	0.00	15.12	
2,375.0	2.27	248.91	2,374.5	8.9	-18.9	-8.8	0.60	0.52	-8.04	
2,400.0	2.21	246.89	2,399.5	8.5	-19.8	-8.4	0.40	-0.24	-8.08	
2,425.0	2.13	250.68	2,424.4	8.2	-20.7	-8.1	0.66	-0.32	15.16	
2,450.0	2.24	252.84	2,449.4	7.9	-21.6	-7.8	0.55	0.44	8.64	
2,475.0	2.29	249.92	2,474.4	7.5	-22.6	-7.5	0.50	0.20	-11.68	
2,500.0	2.15	249.94	2,499.4	7.2	-23.5	-7.1	0.56	-0.56	0.08	
2,525.0	2.24	253.27	2,524.4	6.9	-24.4	-6.8	0.62	0.36	13.32	
2,550.0	2.33	253.65	2,549.4	6.6	-25.3	-6.5	0.37	0.36	1.52	
2,575.0	2.20	252.38	2,574.3	6.3	-26.3	-6.2	0.56	-0.52	-5.08	

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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)
2,600.0	2.12	258.42	2,599.3	6.1	-27.2	-6.0	0.96	-0.32	24.16
2,625.0	2.42	270.37	2,624.3	6.0	-28.2	-5.9	2.24	1.20	47.80
2,650.0	2.74	287.44	2,649.3	6.2	-29.3	-6.1	3.31	1.28	68.28
2,675.0	3.23	300.65	2,674.2	6.7	-30.4	-6.6	3.37	1.96	52.84
2,700.0	3.45	305.81	2,699.2	7.5	-31.7	-7.4	1.49	0.88	20.64
2,725.0	3.60	306.55	2,724.1	8.4	-32.9	-8.3	0.63	0.60	2.96
2,750.0	3.61	308.71	2,749.1	9.4	-34.1	-9.3	0.54	0.04	8.64
2,775.0	3.69	311.93	2,774.0	10.4	-35.3	-10.3	0.88	0.32	12.88
2,800.0	3.84	312.24	2,799.0	11.5	-36.6	-11.4	0.61	0.60	1.24
2,825.0	3.91	311.03	2,823.9	12.7	-37.8	-12.5	0.43	0.28	-4.84
2,850.0	3.81	311.15	2,848.9	13.8	-39.1	-13.6	0.40	-0.40	0.48
2,875.0	3.81	311.59	2,873.8	14.9	-40.3	-14.7	0.12	0.00	1.76
2,900.0	3.95	314.21	2,898.8	16.0	-41.6	-15.9	0.90	0.56	10.48
2,925.0	4.23	325.22	2,923.7	17.4	-42.7	-17.2	3.33	1.12	44.04
2,950.0	4.50	336.12	2,948.6	19.0	-43.7	-18.9	3.48	1.08	43.60
2,975.0	4.46	343.07	2,973.6	20.8	-44.3	-20.7	2.18	-0.16	27.80
3,000.0	4.44	345.89	2,998.5	22.7	-44.8	-22.6	0.88	-0.08	11.28
3,025.0	4.47	348.02	3,023.4	24.6	-45.3	-24.4	0.67	0.12	8.52
3,050.0	4.56	348.19	3,048.3	26.5	-45.7	-26.4	0.36	0.36	0.68
3,075.0	4.63	346.89	3,073.2	28.5	-46.1	-28.3	0.50	0.28	-5.20
3,100.0	4.23	346.77	3,098.2	30.4	-46.6	-30.2	1.60	-1.60	-0.48
3,125.0	2.71	352.77	3,123.1	31.9	-46.9	-31.7	6.24	-6.08	24.00
3,150.0	1.84	2.06	3,148.1	32.8	-46.9	-32.7	3.77	-3.48	37.16
3,175.0	1.76	6.30	3,173.1	33.6	-46.9	-33.5	0.62	-0.32	16.96
3,200.0	1.78	7.81	3,198.1	34.4	-46.8	-34.2	0.20	0.08	6.04
3,225.0	1.80	7.95	3,223.1	35.2	-46.7	-35.0	0.08	0.08	0.56
3,250.0	1.85	6.45	3,248.1	36.0	-46.6	-35.8	0.28	0.20	-6.00
3,275.0	1.95	4.66	3,273.0	36.8	-46.5	-36.6	0.47	0.40	-7.16
3,300.0	1.80	3.42	3,298.0	37.6	-46.4	-37.4	0.62	-0.60	-4.96
3,325.0	1.77	5.29	3,323.0	38.4	-46.4	-38.2	0.26	-0.12	7.48
3,350.0	1.78	9.28	3,348.0	39.1	-46.3	-39.0	0.50	0.04	15.96
3,375.0	1.81	14.09	3,373.0	39.9	-46.1	-39.7	0.61	0.12	19.24
3,400.0	1.91	18.39	3,398.0	40.7	-45.9	-40.5	0.69	0.40	17.20
3,425.0	1.99	21.80	3,423.0	41.5	-45.6	-41.3	0.56	0.32	13.64
3,450.0	2.04	24.05	3,447.9	42.3	-45.2	-42.1	0.37	0.20	9.00
3,475.0	1.99	22.70	3,472.9	43.1	-44.9	-42.9	0.28	-0.20	-5.40
3,500.0	2.23	24.67	3,497.9	43.9	-44.5	-43.8	1.00	0.96	7.88
3,525.0	2.26	24.55	3,522.9	44.8	-44.1	-44.7	0.12	0.12	-0.48
3,550.0	2.21	26.64	3,547.9	45.7	-43.7	-45.6	0.38	-0.20	8.36
3,575.0	2.32	31.56	3,572.9	46.6	-43.2	-46.4	0.89	0.44	19.68
3,600.0	2.39	31.85	3,597.8	47.4	-42.7	-47.3	0.28	0.28	1.16
3,625.0	2.43	28.46	3,622.8	48.4	-42.1	-48.2	0.59	0.16	-13.56
3,650.0	2.31	28.82	3,647.8	49.3	-41.6	-49.1	0.48	-0.48	1.44
3,675.0	2.30	28.88	3,672.8	50.1	-41.2	-50.0	0.04	-0.04	0.24

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well SEBASTIAN FEDERAL COM 704H
Project:	LEA COUNTY, NM (NM - E)	TVD Reference:	KB=30' @ 3615.8usft (SCAN QUEST)
Site:	SEBASTIAN FED COM PROJECT	MD Reference:	KB=30' @ 3615.8usft (SCAN QUEST)
Well:	SEBASTIAN FEDERAL COM 704H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWP	Database:	edm

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)
3,700.0	2.43	27.19	3,697.8	51.0	-40.7	-50.9	0.59	0.52	-6.76
3,725.0	2.52	22.26	3,722.7	52.0	-40.2	-51.9	0.92	0.36	-19.72
3,750.0	2.42	19.28	3,747.7	53.0	-39.8	-52.9	0.65	-0.40	-11.92
3,775.0	2.26	20.02	3,772.7	54.0	-39.5	-53.9	0.65	-0.64	2.96
3,800.0	2.17	18.26	3,797.7	54.9	-39.2	-54.8	0.45	-0.36	-7.04
3,825.0	2.10	13.03	3,822.6	55.8	-38.9	-55.7	0.83	-0.28	-20.92
3,850.0	1.92	6.71	3,847.6	56.7	-38.8	-56.5	1.14	-0.72	-25.28
3,875.0	1.72	7.14	3,872.6	57.5	-38.7	-57.3	0.80	-0.80	1.72
3,900.0	1.88	8.71	3,897.6	58.2	-38.6	-58.1	0.67	0.64	6.28
3,925.0	1.82	4.77	3,922.6	59.0	-38.5	-58.9	0.56	-0.24	-15.76
3,950.0	1.75	6.88	3,947.6	59.8	-38.4	-59.7	0.38	-0.28	8.44
3,975.0	1.84	7.36	3,972.6	60.6	-38.3	-60.5	0.36	0.36	1.92
4,000.0	1.89	3.09	3,997.6	61.4	-38.2	-61.3	0.59	0.20	-17.08
4,025.0	1.79	4.66	4,022.5	62.2	-38.2	-62.1	0.45	-0.40	6.28
4,050.0	1.81	21.93	4,047.5	63.0	-38.0	-62.8	2.16	0.08	69.08
4,075.0	1.71	40.56	4,072.5	63.6	-37.6	-63.5	2.31	-0.40	74.52
4,100.0	1.85	56.78	4,097.5	64.1	-37.0	-64.0	2.08	0.56	64.88
4,125.0	1.91	55.56	4,122.5	64.6	-36.3	-64.4	0.29	0.24	-4.88
4,150.0	1.81	55.99	4,147.5	65.0	-35.7	-64.9	0.40	-0.40	1.72
4,175.0	1.90	59.51	4,172.5	65.5	-35.0	-65.3	0.58	0.36	14.08
4,200.0	1.93	52.83	4,197.5	65.9	-34.3	-65.8	0.90	0.12	-26.72
4,225.0	1.70	57.17	4,222.4	66.4	-33.6	-66.3	1.07	-0.92	17.36
4,250.0	1.17	98.61	4,247.4	66.5	-33.1	-66.4	4.52	-2.12	165.76
4,275.0	1.25	138.56	4,272.4	66.3	-32.7	-66.2	3.32	0.32	159.80
4,300.0	1.40	152.29	4,297.4	65.8	-32.3	-65.7	1.40	0.60	54.92
4,325.0	1.67	155.14	4,322.4	65.2	-32.0	-65.1	1.12	1.08	11.40
4,350.0	1.69	153.46	4,347.4	64.6	-31.7	-64.4	0.21	0.08	-6.72
4,375.0	1.70	152.51	4,372.4	63.9	-31.4	-63.8	0.12	0.04	-3.80
4,400.0	1.89	150.53	4,397.4	63.2	-31.0	-63.1	0.80	0.76	-7.92
4,425.0	2.24	151.47	4,422.4	62.4	-30.6	-62.3	1.41	1.40	3.76
4,450.0	2.49	151.24	4,447.3	61.5	-30.1	-61.4	1.00	1.00	-0.92
4,475.0	2.76	151.76	4,472.3	60.5	-29.5	-60.4	1.08	1.08	2.08
4,500.0	3.00	152.83	4,497.3	59.4	-28.9	-59.3	0.98	0.96	4.28
4,525.0	3.18	149.78	4,522.2	58.2	-28.3	-58.1	0.97	0.72	-12.20
4,550.0	3.29	148.99	4,547.2	57.0	-27.6	-56.9	0.47	0.44	-3.16
4,575.0	3.38	149.28	4,572.2	55.8	-26.8	-55.7	0.37	0.36	1.16
4,600.0	3.38	147.76	4,597.1	54.5	-26.1	-54.4	0.36	0.00	-6.08
4,625.0	3.57	148.36	4,622.1	53.2	-25.3	-53.1	0.77	0.76	2.40
4,650.0	3.70	147.32	4,647.0	51.9	-24.4	-51.8	0.58	0.52	-4.16
4,675.0	3.95	147.28	4,672.0	50.5	-23.5	-50.4	1.00	1.00	-0.16
4,700.0	4.33	146.02	4,696.9	49.0	-22.5	-48.9	1.56	1.52	-5.04
4,725.0	4.89	146.69	4,721.8	47.3	-21.4	-47.2	2.25	2.24	2.68
4,750.0	5.18	145.65	4,746.7	45.5	-20.2	-45.4	1.22	1.16	-4.16

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well SEBASTIAN FEDERAL COM 704H
Project:	LEA COUNTY, NM (NM - E)	TVD Reference:	KB=30' @ 3615.8usft (SCAN QUEST)
Site:	SEBASTIAN FED COM PROJECT	MD Reference:	KB=30' @ 3615.8usft (SCAN QUEST)
Well:	SEBASTIAN FEDERAL COM 704H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWP	Database:	edm

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)
4,775.0	5.56	143.56	4,771.6	43.6	-18.8	-43.5	1.71	1.52	-8.36
4,800.0	6.17	143.32	4,796.5	41.5	-17.3	-41.4	2.44	2.44	-0.96
4,825.0	7.01	143.58	4,821.3	39.2	-15.6	-39.1	3.36	3.36	1.04
4,850.0	7.08	143.55	4,846.1	36.7	-13.8	-36.7	0.28	0.28	-0.12
4,875.0	6.92	144.65	4,870.9	34.3	-12.0	-34.2	0.83	-0.64	4.40
4,900.0	6.56	145.71	4,895.8	31.9	-10.3	-31.8	1.52	-1.44	4.24
4,925.0	6.12	146.82	4,920.6	29.6	-8.8	-29.5	1.83	-1.76	4.44
4,950.0	5.89	147.22	4,945.5	27.4	-7.4	-27.3	0.94	-0.92	1.60
4,975.0	5.46	149.31	4,970.4	25.3	-6.1	-25.2	1.91	-1.72	8.36
5,000.0	5.06	150.13	4,995.3	23.3	-4.9	-23.3	1.63	-1.60	3.28
5,025.0	4.76	148.48	5,020.2	21.4	-3.8	-21.4	1.33	-1.20	-6.60
5,050.0	4.71	147.68	5,045.1	19.7	-2.7	-19.7	0.33	-0.20	-3.20
5,075.0	4.45	143.14	5,070.0	18.1	-1.6	-18.0	1.78	-1.04	-18.16
5,100.0	4.03	133.50	5,094.9	16.7	-0.4	-16.7	3.30	-1.68	-38.56
5,125.0	3.87	129.24	5,119.9	15.5	0.9	-15.5	1.34	-0.64	-17.04
5,150.0	3.75	125.45	5,144.8	14.5	2.2	-14.5	1.12	-0.48	-15.16
5,175.0	3.61	112.67	5,169.8	13.7	3.6	-13.8	3.32	-0.56	-51.12
5,200.0	3.60	100.35	5,194.7	13.3	5.1	-13.3	3.09	-0.04	-49.28
5,225.0	3.62	95.27	5,219.7	13.1	6.7	-13.1	1.28	0.08	-20.32
5,250.0	3.21	84.09	5,244.6	13.1	8.2	-13.1	3.12	-1.64	-44.72
5,275.0	2.93	64.46	5,269.6	13.4	9.4	-13.5	4.33	-1.12	-78.52
5,300.0	2.86	48.23	5,294.6	14.1	10.5	-14.2	3.28	-0.28	-64.92
5,325.0	2.75	41.05	5,319.5	15.0	11.3	-15.0	1.47	-0.44	-28.72
5,350.0	2.19	17.84	5,344.5	15.9	11.9	-15.9	4.54	-2.24	-92.84
5,375.0	2.12	347.74	5,369.5	16.8	11.9	-16.9	4.48	-0.28	-120.40
5,400.0	2.22	332.51	5,394.5	17.7	11.6	-17.7	2.33	0.40	-60.92
5,425.0	2.35	323.94	5,419.4	18.5	11.1	-18.6	1.46	0.52	-34.28
5,450.0	2.27	320.76	5,444.4	19.3	10.5	-19.4	0.60	-0.32	-12.72
5,475.0	2.22	320.25	5,469.4	20.1	9.8	-20.1	0.22	-0.20	-2.04
5,500.0	2.16	324.20	5,494.4	20.8	9.3	-20.9	0.65	-0.24	15.80
5,525.0	2.25	324.62	5,519.4	21.6	8.7	-21.7	0.37	0.36	1.68
5,550.0	2.27	322.51	5,544.4	22.4	8.1	-22.4	0.34	0.08	-8.44
5,575.0	2.11	318.93	5,569.3	23.2	7.5	-23.2	0.84	-0.64	-14.32
5,600.0	2.05	315.18	5,594.3	23.8	6.9	-23.8	0.59	-0.24	-15.00
5,625.0	1.92	317.32	5,619.3	24.4	6.3	-24.5	0.60	-0.52	8.56
5,650.0	2.00	320.06	5,644.3	25.1	5.7	-25.1	0.49	0.32	10.96
5,675.0	2.09	320.39	5,669.3	25.8	5.2	-25.8	0.36	0.36	1.32
5,700.0	2.10	314.83	5,694.3	26.4	4.5	-26.5	0.81	0.04	-22.24
5,725.0	2.01	313.60	5,719.2	27.1	3.9	-27.1	0.40	-0.36	-4.92
5,750.0	1.96	314.96	5,744.2	27.7	3.3	-27.7	0.27	-0.20	5.44
5,775.0	2.01	317.41	5,769.2	28.3	2.7	-28.3	0.39	0.20	9.80
5,800.0	2.20	314.09	5,794.2	29.0	2.0	-29.0	0.90	0.76	-13.28
5,825.0	2.27	306.27	5,819.2	29.6	1.3	-29.6	1.25	0.28	-31.28

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well SEBASTIAN FEDERAL COM 704H
Project:	LEA COUNTY, NM (NM - E)	TVD Reference:	KB=30' @ 3615.8usft (SCAN QUEST)
Site:	SEBASTIAN FED COM PROJECT	MD Reference:	KB=30' @ 3615.8usft (SCAN QUEST)
Well:	SEBASTIAN FEDERAL COM 704H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWP	Database:	edm

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)
5,850.0	2.26	301.39	5,844.2	30.1	0.5	-30.1	0.77	-0.04	-19.52
5,875.0	2.19	300.44	5,869.1	30.6	-0.4	-30.6	0.32	-0.28	-3.80
5,900.0	2.25	303.52	5,894.1	31.1	-1.2	-31.1	0.53	0.24	12.32
5,925.0	2.37	302.69	5,919.1	31.7	-2.0	-31.7	0.50	0.48	-3.32
5,950.0	2.32	301.88	5,944.1	32.2	-2.9	-32.2	0.24	-0.20	-3.24
5,975.0	2.22	302.82	5,969.1	32.8	-3.7	-32.8	0.43	-0.40	3.76
6,000.0	2.27	304.25	5,994.0	33.3	-4.5	-33.3	0.30	0.20	5.72
6,025.0	2.43	309.27	6,019.0	33.9	-5.4	-33.9	1.04	0.64	20.08
6,050.0	2.48	305.35	6,044.0	34.6	-6.2	-34.6	0.70	0.20	-15.68
6,075.0	2.34	306.71	6,069.0	35.2	-7.1	-35.2	0.60	-0.56	5.44
6,100.0	2.29	310.13	6,094.0	35.8	-7.9	-35.8	0.59	-0.20	13.68
6,125.0	2.33	305.37	6,118.9	36.4	-8.6	-36.4	0.78	0.16	-19.04
6,150.0	2.27	301.48	6,143.9	37.0	-9.5	-37.0	0.67	-0.24	-15.56
6,175.0	2.15	303.25	6,168.9	37.5	-10.3	-37.5	0.55	-0.48	7.08
6,200.0	2.15	306.03	6,193.9	38.0	-11.1	-38.0	0.42	0.00	11.12
6,225.0	2.28	305.78	6,218.9	38.6	-11.9	-38.6	0.52	0.52	-1.00
6,250.0	2.28	304.32	6,243.8	39.2	-12.7	-39.1	0.23	0.00	-5.84
6,275.0	2.13	309.66	6,268.8	39.8	-13.4	-39.7	1.02	-0.60	21.36
6,300.0	2.46	337.16	6,293.8	40.5	-14.0	-40.5	4.55	1.32	110.00
6,325.0	2.91	343.94	6,318.8	41.7	-14.4	-41.6	2.20	1.80	27.12
6,350.0	2.90	345.59	6,343.7	42.9	-14.7	-42.8	0.34	-0.04	6.60
6,375.0	2.99	349.69	6,368.7	44.1	-15.0	-44.1	0.92	0.36	16.40
6,400.0	3.13	350.08	6,393.7	45.4	-15.2	-45.4	0.57	0.56	1.56
6,425.0	3.24	350.16	6,418.6	46.8	-15.5	-46.8	0.44	0.44	0.32
6,450.0	3.15	351.55	6,443.6	48.2	-15.7	-48.1	0.47	-0.36	5.56
6,475.0	3.16	352.51	6,468.6	49.5	-15.9	-49.5	0.22	0.04	3.84
6,500.0	3.38	352.05	6,493.5	51.0	-16.1	-50.9	0.89	0.88	-1.84
6,525.0	3.25	350.08	6,518.5	52.4	-16.3	-52.3	0.69	-0.52	-7.88
6,550.0	3.16	351.29	6,543.4	53.8	-16.5	-53.7	0.45	-0.36	4.84
6,575.0	3.21	352.82	6,568.4	55.1	-16.7	-55.1	0.39	0.20	6.12
6,600.0	3.33	352.33	6,593.4	56.6	-16.9	-56.5	0.49	0.48	-1.96
6,625.0	3.32	349.12	6,618.3	58.0	-17.1	-57.9	0.75	-0.04	-12.84
6,650.0	3.23	349.93	6,643.3	59.4	-17.4	-59.3	0.40	-0.36	3.24
6,675.0	3.25	352.86	6,668.2	60.8	-17.6	-60.7	0.67	0.08	11.72
6,700.0	3.30	352.63	6,693.2	62.2	-17.8	-62.1	0.21	0.20	-0.92
6,725.0	3.37	350.59	6,718.1	63.6	-18.0	-63.6	0.55	0.28	-8.16
6,750.0	3.29	350.16	6,743.1	65.1	-18.2	-65.0	0.34	-0.32	-1.72
6,775.0	3.28	351.60	6,768.1	66.5	-18.5	-66.4	0.33	-0.04	5.76
6,800.0	3.27	352.72	6,793.0	67.9	-18.7	-67.8	0.26	-0.04	4.48
6,825.0	3.42	352.06	6,818.0	69.4	-18.9	-69.3	0.62	0.60	-2.64
6,850.0	3.36	349.76	6,842.9	70.8	-19.1	-70.7	0.59	-0.24	-9.20
6,875.0	3.34	350.26	6,867.9	72.2	-19.3	-72.2	0.14	-0.08	2.00
6,900.0	3.11	350.00	6,892.9	73.6	-19.6	-73.6	0.92	-0.92	-1.04
6,925.0	3.08	347.81	6,917.8	75.0	-19.8	-74.9	0.49	-0.12	-8.76

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well SEBASTIAN FEDERAL COM 704H
Project:	LEA COUNTY, NM (NM - E)	TVD Reference:	KB=30' @ 3615.8usft (SCAN QUEST)
Site:	SEBASTIAN FED COM PROJECT	MD Reference:	KB=30' @ 3615.8usft (SCAN QUEST)
Well:	SEBASTIAN FEDERAL COM 704H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWP	Database:	edm

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)
6,950.0	3.01	349.26	6,942.8	76.3	-20.1	-76.2	0.42	-0.28	5.80
6,975.0	3.11	348.10	6,967.7	77.6	-20.4	-77.5	0.47	0.40	-4.64
7,000.0	3.13	345.13	6,992.7	78.9	-20.7	-78.8	0.65	0.08	-11.88
7,025.0	3.06	343.45	7,017.7	80.2	-21.0	-80.1	0.46	-0.28	-6.72
7,050.0	2.90	342.30	7,042.6	81.4	-21.4	-81.4	0.68	-0.64	-4.60
7,075.0	2.79	341.75	7,067.6	82.6	-21.8	-82.5	0.45	-0.44	-2.20
7,100.0	2.73	342.56	7,092.6	83.8	-22.2	-83.7	0.29	-0.24	3.24
7,125.0	2.62	344.21	7,117.6	84.9	-22.5	-84.8	0.54	-0.44	6.60
7,150.0	2.63	345.62	7,142.5	86.0	-22.8	-85.9	0.26	0.04	5.64
7,175.0	2.65	346.23	7,167.5	87.1	-23.1	-87.0	0.14	0.08	2.44
7,200.0	2.63	345.15	7,192.5	88.2	-23.4	-88.1	0.21	-0.08	-4.32
7,225.0	2.62	344.96	7,217.4	89.3	-23.7	-89.2	0.05	-0.04	-0.76
7,250.0	2.67	346.78	7,242.4	90.4	-24.0	-90.4	0.39	0.20	7.28
7,275.0	2.76	346.00	7,267.4	91.6	-24.2	-91.5	0.39	0.36	-3.12
7,300.0	2.79	346.17	7,292.4	92.8	-24.5	-92.7	0.12	0.12	0.68
7,325.0	2.85	345.61	7,317.3	94.0	-24.8	-93.9	0.26	0.24	-2.24
7,350.0	2.79	345.36	7,342.3	95.1	-25.1	-95.1	0.24	-0.24	-1.00
7,375.0	2.70	341.54	7,367.3	96.3	-25.5	-96.2	0.82	-0.36	-15.28
7,400.0	2.55	341.71	7,392.2	97.4	-25.8	-97.3	0.60	-0.60	0.68
7,425.0	2.63	338.24	7,417.2	98.4	-26.2	-98.4	0.70	0.32	-13.88
7,450.0	2.57	337.14	7,442.2	99.5	-26.6	-99.4	0.31	-0.24	-4.40
7,475.0	2.54	334.95	7,467.2	100.5	-27.1	-100.4	0.41	-0.12	-8.76
7,500.0	2.44	335.09	7,492.1	101.5	-27.6	-101.4	0.40	-0.40	0.56
7,525.0	2.33	336.77	7,517.1	102.4	-28.0	-102.3	0.52	-0.44	6.72
7,550.0	2.25	336.91	7,542.1	103.4	-28.4	-103.3	0.32	-0.32	0.56
7,575.0	2.28	337.46	7,567.1	104.3	-28.8	-104.2	0.15	0.12	2.20
7,600.0	2.32	338.01	7,592.1	105.2	-29.1	-105.1	0.18	0.16	2.20
7,625.0	2.30	334.74	7,617.0	106.1	-29.5	-106.0	0.53	-0.08	-13.08
7,650.0	2.20	334.89	7,642.0	107.0	-30.0	-106.9	0.40	-0.40	0.60
7,675.0	1.98	334.59	7,667.0	107.8	-30.3	-107.7	0.88	-0.88	-1.20
7,700.0	1.98	337.63	7,692.0	108.6	-30.7	-108.5	0.42	0.00	12.16
7,725.0	1.89	338.77	7,717.0	109.4	-31.0	-109.3	0.39	-0.36	4.56
7,750.0	1.93	338.69	7,742.0	110.2	-31.3	-110.1	0.16	0.16	-0.32
7,775.0	2.00	337.61	7,767.0	111.0	-31.6	-110.9	0.32	0.28	-4.32
7,800.0	1.94	335.39	7,791.9	111.8	-32.0	-111.7	0.39	-0.24	-8.88
7,825.0	1.76	332.29	7,816.9	112.5	-32.3	-112.4	0.82	-0.72	-12.40
7,850.0	1.65	334.29	7,841.9	113.2	-32.7	-113.0	0.50	-0.44	8.00
7,875.0	1.74	338.51	7,866.9	113.8	-33.0	-113.7	0.62	0.36	16.88
7,900.0	1.72	338.29	7,891.9	114.5	-33.2	-114.4	0.08	-0.08	-0.88
7,925.0	1.81	339.86	7,916.9	115.3	-33.5	-115.1	0.41	0.36	6.28
7,950.0	1.83	336.67	7,941.9	116.0	-33.8	-115.9	0.41	0.08	-12.76
7,975.0	1.84	334.99	7,966.9	116.7	-34.1	-116.6	0.22	0.04	-6.72
8,000.0	1.70	334.87	7,991.8	117.4	-34.5	-117.3	0.56	-0.56	-0.48

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well SEBASTIAN FEDERAL COM 704H
Project:	LEA COUNTY, NM (NM - E)	TVD Reference:	KB=30' @ 3615.8usft (SCAN QUEST)
Site:	SEBASTIAN FED COM PROJECT	MD Reference:	KB=30' @ 3615.8usft (SCAN QUEST)
Well:	SEBASTIAN FEDERAL COM 704H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWP	Database:	edm

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)
8,025.0	1.62	335.80	8,016.8	118.1	-34.8	-118.0	0.34	-0.32	3.72
8,050.0	1.56	339.56	8,041.8	118.7	-35.0	-118.6	0.48	-0.24	15.04
8,075.0	1.58	343.19	8,066.8	119.4	-35.2	-119.3	0.41	0.08	14.52
8,100.0	1.64	342.64	8,091.8	120.0	-35.5	-119.9	0.25	0.24	-2.20
8,125.0	1.69	339.67	8,116.8	120.7	-35.7	-120.6	0.40	0.20	-11.88
8,150.0	1.63	337.06	8,141.8	121.4	-36.0	-121.3	0.39	-0.24	-10.44
8,175.0	1.49	336.08	8,166.8	122.0	-36.2	-121.9	0.57	-0.56	-3.92
8,200.0	1.48	338.66	8,191.8	122.6	-36.5	-122.5	0.27	-0.04	10.32
8,225.0	1.39	339.28	8,216.8	123.2	-36.7	-123.1	0.37	-0.36	2.48
8,250.0	1.46	343.59	8,241.7	123.8	-36.9	-123.7	0.51	0.28	17.24
8,275.0	1.50	344.01	8,266.7	124.4	-37.1	-124.3	0.17	0.16	1.68
8,300.0	1.50	343.71	8,291.7	125.1	-37.3	-124.9	0.03	0.00	-1.20
8,325.0	1.47	344.15	8,316.7	125.7	-37.4	-125.5	0.13	-0.12	1.76
8,350.0	1.48	341.02	8,341.7	126.3	-37.6	-126.2	0.32	0.04	-12.52
8,375.0	1.49	338.39	8,366.7	126.9	-37.9	-126.8	0.28	0.04	-10.52
8,400.0	1.37	334.56	8,391.7	127.5	-38.1	-127.3	0.61	-0.48	-15.32
8,425.0	1.27	337.42	8,416.7	128.0	-38.3	-127.9	0.48	-0.40	11.44
8,450.0	1.21	342.37	8,441.7	128.5	-38.5	-128.4	0.49	-0.24	19.80
8,475.0	1.17	340.75	8,466.7	129.0	-38.7	-128.9	0.21	-0.16	-6.48
8,500.0	1.14	343.69	8,491.7	129.5	-38.8	-129.3	0.27	-0.12	11.76
8,525.0	1.19	350.24	8,516.7	130.0	-39.0	-129.8	0.57	0.20	26.20
8,550.0	1.27	348.87	8,541.7	130.5	-39.1	-130.4	0.34	0.32	-5.48
8,575.0	1.25	349.29	8,566.7	131.0	-39.2	-130.9	0.09	-0.08	1.68
8,600.0	1.36	350.75	8,591.7	131.6	-39.3	-131.5	0.46	0.44	5.84
8,625.0	1.32	347.97	8,616.6	132.2	-39.4	-132.0	0.31	-0.16	-11.12
8,650.0	1.30	349.72	8,641.6	132.7	-39.5	-132.6	0.18	-0.08	7.00
8,675.0	1.19	345.76	8,666.6	133.3	-39.6	-133.1	0.56	-0.44	-15.84
8,700.0	1.17	347.29	8,691.6	133.8	-39.7	-133.6	0.15	-0.08	6.12
8,725.0	1.10	348.83	8,716.6	134.2	-39.8	-134.1	0.31	-0.28	6.16
8,750.0	1.03	350.36	8,741.6	134.7	-39.9	-134.6	0.30	-0.28	6.12
8,775.0	1.02	354.10	8,766.6	135.1	-40.0	-135.0	0.27	-0.04	14.96
8,800.0	1.05	356.56	8,791.6	135.6	-40.0	-135.5	0.21	0.12	9.84
8,825.0	1.12	0.03	8,816.6	136.1	-40.0	-135.9	0.38	0.28	13.88
8,850.0	1.17	358.42	8,841.6	136.6	-40.0	-136.4	0.24	0.20	-6.44
8,875.0	1.29	358.08	8,866.6	137.1	-40.0	-137.0	0.48	0.48	-1.36
8,900.0	1.20	351.15	8,891.6	137.6	-40.1	-137.5	0.70	-0.36	-27.72
8,925.0	1.17	351.81	8,916.6	138.2	-40.2	-138.0	0.13	-0.12	2.64
8,950.0	1.09	355.84	8,941.6	138.6	-40.2	-138.5	0.45	-0.32	16.12
8,975.0	1.06	359.92	8,966.6	139.1	-40.2	-139.0	0.33	-0.12	16.32
9,000.0	1.08	2.15	8,991.6	139.6	-40.2	-139.4	0.18	0.08	8.92
9,025.0	1.16	3.87	9,016.6	140.1	-40.2	-139.9	0.35	0.32	6.88
9,050.0	1.18	0.85	9,041.6	140.6	-40.2	-140.4	0.26	0.08	-12.08
9,075.0	1.16	358.45	9,066.6	141.1	-40.2	-140.9	0.21	-0.08	-9.60

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well SEBASTIAN FEDERAL COM 704H
Project:	LEA COUNTY, NM (NM - E)	TVD Reference:	KB=30' @ 3615.8usft (SCAN QUEST)
Site:	SEBASTIAN FED COM PROJECT	MD Reference:	KB=30' @ 3615.8usft (SCAN QUEST)
Well:	SEBASTIAN FEDERAL COM 704H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWP	Database:	edm

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)
9,100.0	1.07	357.65	9,091.6	141.6	-40.2	-141.4	0.37	-0.36	-3.20
9,125.0	0.94	7.09	9,116.5	142.0	-40.2	-141.9	0.84	-0.52	37.76
9,150.0	0.81	18.41	9,141.5	142.4	-40.1	-142.2	0.86	-0.52	45.28
9,175.0	0.70	24.86	9,166.5	142.7	-40.0	-142.5	0.56	-0.44	25.80
9,200.0	0.35	16.31	9,191.5	142.9	-39.9	-142.8	1.43	-1.40	-34.20
9,225.0	0.06	239.31	9,216.5	143.0	-39.9	-142.8	1.58	-1.16	-548.00
9,250.0	0.25	195.11	9,241.5	142.9	-39.9	-142.8	0.84	0.76	-176.80
9,275.0	0.39	195.26	9,266.5	142.8	-39.9	-142.6	0.56	0.56	0.60
9,300.0	0.48	214.37	9,291.5	142.6	-40.0	-142.5	0.68	0.36	76.44
9,325.0	0.54	226.68	9,316.5	142.4	-40.2	-142.3	0.50	0.24	49.24
9,350.0	0.68	222.96	9,341.5	142.2	-40.4	-142.1	0.58	0.56	-14.88
9,375.0	0.65	216.08	9,366.5	142.0	-40.5	-141.9	0.34	-0.12	-27.52
9,400.0	0.60	210.15	9,391.5	141.8	-40.7	-141.7	0.33	-0.20	-23.72
9,425.0	0.48	225.15	9,416.5	141.6	-40.8	-141.5	0.74	-0.48	60.00
9,450.0	0.58	282.99	9,441.5	141.6	-41.0	-141.4	2.08	0.40	231.36
9,475.0	0.79	314.67	9,466.5	141.7	-41.3	-141.6	1.70	0.84	126.72
9,500.0	0.73	325.56	9,491.5	142.0	-41.5	-141.8	0.62	-0.24	43.56
9,525.0	0.87	333.63	9,516.5	142.3	-41.7	-142.1	0.72	0.56	32.28
9,550.0	0.71	316.99	9,541.5	142.6	-41.8	-142.4	1.11	-0.64	-66.56
9,575.0	0.55	325.55	9,566.5	142.8	-42.0	-142.6	0.74	-0.64	34.24
9,600.0	0.69	319.26	9,591.5	143.0	-42.2	-142.8	0.62	0.56	-25.16
9,625.0	0.61	302.42	9,616.5	143.2	-42.4	-143.0	0.82	-0.32	-67.36
9,650.0	0.54	300.69	9,641.5	143.3	-42.6	-143.1	0.29	-0.28	-6.92
9,675.0	0.64	299.23	9,666.5	143.4	-42.8	-143.3	0.40	0.40	-5.84
9,700.0	0.83	281.13	9,691.5	143.5	-43.1	-143.4	1.19	0.76	-72.40
9,725.0	0.84	275.27	9,716.5	143.6	-43.5	-143.4	0.34	0.04	-23.44
9,750.0	1.14	262.86	9,741.5	143.6	-43.9	-143.4	1.47	1.20	-49.64
9,775.0	1.19	254.21	9,766.5	143.5	-44.4	-143.3	0.73	0.20	-34.60
9,800.0	1.30	258.18	9,791.5	143.3	-44.9	-143.2	0.56	0.44	15.88
9,825.0	1.37	251.44	9,816.5	143.2	-45.5	-143.0	0.69	0.28	-26.96
9,850.0	1.28	254.48	9,841.5	143.0	-46.1	-142.8	0.46	-0.36	12.16
9,875.0	1.42	246.93	9,866.5	142.8	-46.6	-142.6	0.90	0.56	-30.20
9,900.0	1.39	240.72	9,891.5	142.5	-47.2	-142.4	0.62	-0.12	-24.84
9,925.0	1.73	241.15	9,916.5	142.2	-47.8	-142.0	1.36	1.36	1.72
9,950.0	1.80	236.49	9,941.4	141.8	-48.4	-141.6	0.64	0.28	-18.64
9,975.0	1.97	240.69	9,966.4	141.4	-49.1	-141.2	0.88	0.68	16.80
10,000.0	1.89	241.04	9,991.4	141.0	-49.9	-140.8	0.32	-0.32	1.40
10,025.0	2.33	270.57	10,016.4	140.8	-50.7	-140.6	4.63	1.76	118.12
10,050.0	3.00	285.73	10,041.4	141.0	-51.9	-140.8	3.87	2.68	60.64
10,075.0	3.31	287.03	10,066.3	141.4	-53.2	-141.2	1.27	1.24	5.20
10,100.0	3.46	289.09	10,091.3	141.8	-54.6	-141.6	0.77	0.60	8.24
10,125.0	3.51	287.29	10,116.2	142.3	-56.0	-142.1	0.48	0.20	-7.20
10,150.0	3.43	285.54	10,141.2	142.7	-57.5	-142.5	0.53	-0.32	-7.00
10,175.0	3.39	284.13	10,166.2	143.1	-58.9	-142.9	0.37	-0.16	-5.64

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well SEBASTIAN FEDERAL COM 704H
Project:	LEA COUNTY, NM (NM - E)	TVD Reference:	KB=30' @ 3615.8usft (SCAN QUEST)
Site:	SEBASTIAN FED COM PROJECT	MD Reference:	KB=30' @ 3615.8usft (SCAN QUEST)
Well:	SEBASTIAN FEDERAL COM 704H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWP	Database:	edm

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)
10,200.0	3.38	284.20	10,191.1	143.5	-60.3	-143.2	0.04	-0.04	0.28
10,225.0	3.36	280.44	10,216.1	143.8	-61.8	-143.6	0.89	-0.08	-15.04
10,250.0	3.18	280.33	10,241.0	144.0	-63.2	-143.8	0.72	-0.72	-0.44
10,275.0	3.13	278.50	10,266.0	144.3	-64.5	-144.0	0.45	-0.20	-7.32
10,300.0	3.08	279.85	10,291.0	144.5	-65.9	-144.2	0.35	-0.20	5.40
10,325.0	3.03	278.80	10,315.9	144.7	-67.2	-144.4	0.30	-0.20	-4.20
10,350.0	3.03	279.81	10,340.9	144.9	-68.5	-144.7	0.21	0.00	4.04
10,375.0	2.83	282.42	10,365.9	145.1	-69.8	-144.9	0.96	-0.80	10.44
10,400.0	2.52	282.16	10,390.8	145.4	-70.9	-145.1	1.24	-1.24	-1.04
10,425.0	2.37	282.54	10,415.8	145.6	-71.9	-145.4	0.60	-0.60	1.52
10,450.0	2.25	283.08	10,440.8	145.8	-72.9	-145.6	0.49	-0.48	2.16
10,475.0	2.28	280.37	10,465.8	146.0	-73.9	-145.8	0.44	0.12	-10.84
10,500.0	2.33	279.30	10,490.7	146.2	-74.9	-146.0	0.26	0.20	-4.28
10,525.0	2.28	277.97	10,515.7	146.4	-75.9	-146.1	0.29	-0.20	-5.32
10,550.0	2.36	275.82	10,540.7	146.5	-76.9	-146.2	0.47	0.32	-8.60
10,575.0	2.33	275.82	10,565.7	146.6	-77.9	-146.3	0.12	-0.12	0.00
10,600.0	2.31	278.38	10,590.7	146.7	-78.9	-146.4	0.42	-0.08	10.24
10,625.0	2.27	277.27	10,615.6	146.9	-79.9	-146.6	0.24	-0.16	-4.44
10,650.0	2.26	277.53	10,640.6	147.0	-80.9	-146.7	0.06	-0.04	1.04
10,675.0	1.87	273.45	10,665.6	147.1	-81.8	-146.8	1.67	-1.56	-16.32
10,700.0	1.66	270.22	10,690.6	147.1	-82.5	-146.8	0.93	-0.84	-12.92
10,725.0	1.67	269.88	10,715.6	147.1	-83.3	-146.8	0.06	0.04	-1.36
10,750.0	1.84	269.70	10,740.6	147.1	-84.0	-146.8	0.68	0.68	-0.72
10,775.0	2.17	268.46	10,765.6	147.1	-84.9	-146.8	1.33	1.32	-4.96
10,800.0	2.29	269.94	10,790.5	147.1	-85.9	-146.8	0.53	0.48	5.92
10,825.0	2.45	273.13	10,815.5	147.1	-86.9	-146.8	0.83	0.64	12.76
10,850.0	2.47	274.66	10,840.5	147.2	-88.0	-146.9	0.27	0.08	6.12
10,875.0	2.45	280.58	10,865.5	147.3	-89.0	-147.0	1.02	-0.08	23.68
10,900.0	2.44	283.21	10,890.4	147.5	-90.1	-147.2	0.45	-0.04	10.52
10,925.0	2.36	285.72	10,915.4	147.8	-91.1	-147.5	0.53	-0.32	10.04
10,950.0	2.36	284.01	10,940.4	148.1	-92.1	-147.7	0.28	0.00	-6.84
10,975.0	2.36	280.80	10,965.4	148.3	-93.1	-147.9	0.53	0.00	-12.84
11,000.0	2.24	279.48	10,990.4	148.4	-94.1	-148.1	0.52	-0.48	-5.28
11,025.0	1.99	281.91	11,015.3	148.6	-95.0	-148.3	1.06	-1.00	9.72
11,050.0	1.45	297.82	11,040.3	148.9	-95.7	-148.5	2.86	-2.16	63.64
11,075.0	1.03	312.09	11,065.3	149.2	-96.1	-148.8	2.07	-1.68	57.08
11,100.0	0.99	334.29	11,090.3	149.5	-96.4	-149.2	1.56	-0.16	88.80
11,125.0	0.93	347.77	11,115.3	149.9	-96.5	-149.6	0.93	-0.24	53.92
11,150.0	0.99	357.99	11,140.3	150.3	-96.6	-150.0	0.72	0.24	40.88
11,175.0	1.07	354.37	11,165.3	150.8	-96.6	-150.4	0.41	0.32	-14.48
11,200.0	1.26	351.09	11,190.3	151.3	-96.7	-150.9	0.81	0.76	-13.12
11,220.0	1.48	355.02	11,210.3	151.7	-96.7	-151.4	1.20	1.10	19.65
11,417.0	2.38	350.41	11,407.2	158.3	-97.6	-158.0	0.46	0.46	-2.34

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well SEBASTIAN FEDERAL COM 704H
Project:	LEA COUNTY, NM (NM - E)	TVD Reference:	KB=30' @ 3615.8usft (SCAN QUEST)
Site:	SEBASTIAN FED COM PROJECT	MD Reference:	KB=30' @ 3615.8usft (SCAN QUEST)
Well:	SEBASTIAN FEDERAL COM 704H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWP	Database:	edm

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)
11,511.0	1.79	31.90	11,501.1	161.5	-97.2	-161.1	1.68	-0.63	44.14
11,558.0	4.79	142.13	11,548.1	160.5	-95.6	-160.2	12.05	6.38	234.53
11,606.0	12.25	140.65	11,595.5	155.0	-91.1	-154.7	15.55	15.54	-3.08
11,638.3	13.88	150.28	11,627.0	149.0	-87.0	-148.7	8.39	5.03	29.80
FTP @ 11638.3' MD									
11,653.0	14.72	153.92	11,641.2	145.8	-85.3	-145.5	8.39	5.74	24.79
11,700.0	18.71	147.60	11,686.2	134.1	-78.7	-133.8	9.32	8.49	-13.45
11,747.0	24.89	138.28	11,729.9	120.3	-68.0	-120.1	15.03	13.15	-19.83
11,794.0	30.52	138.54	11,771.5	104.0	-53.5	-103.8	11.98	11.98	0.55
11,841.0	37.08	142.25	11,810.5	83.8	-36.9	-83.7	14.63	13.96	7.89
11,888.0	38.40	142.33	11,847.7	61.0	-19.4	-61.0	2.81	2.81	0.17
11,926.0	41.23	147.77	11,876.9	41.1	-5.5	-41.1	11.81	7.45	14.32
11,973.0	43.96	154.55	11,911.5	13.2	9.8	-13.3	11.35	5.81	14.43
12,020.0	50.54	162.80	11,943.4	-18.9	22.2	18.8	19.01	14.00	17.55
12,067.0	56.68	168.81	11,971.3	-55.5	31.4	55.4	16.62	13.06	12.79
12,099.0	60.64	172.95	11,987.9	-82.5	35.7	82.4	16.59	12.38	12.94
12,131.0	65.78	175.03	12,002.3	-110.9	38.7	110.8	17.08	16.06	6.50
12,162.0	70.73	177.10	12,013.8	-139.6	40.7	139.5	17.13	15.97	6.68
12,194.0	76.49	178.62	12,022.9	-170.3	41.8	170.2	18.57	18.00	4.75
12,225.0	82.24	179.43	12,028.6	-200.7	42.3	200.6	18.73	18.55	2.61
12,264.0	88.70	182.67	12,031.6	-239.6	41.6	239.4	18.52	16.56	8.31
12,358.0	88.69	184.35	12,033.8	-333.4	35.9	333.3	1.79	-0.01	1.79
12,452.0	89.86	183.45	12,035.0	-427.2	29.5	427.1	1.57	1.24	-0.96
12,547.0	90.18	183.54	12,034.9	-522.0	23.7	521.9	0.35	0.34	0.09
12,641.0	90.46	183.38	12,034.4	-615.8	18.0	615.7	0.34	0.30	-0.17
12,735.0	91.13	184.28	12,033.1	-709.6	11.7	709.5	1.19	0.71	0.96
12,830.0	90.89	184.53	12,031.4	-804.3	4.4	804.3	0.36	-0.25	0.26
12,925.0	91.12	185.27	12,029.8	-898.9	-3.7	898.9	0.82	0.24	0.78
13,020.0	87.92	184.64	12,030.6	-993.6	-11.9	993.6	3.43	-3.37	-0.66
13,114.0	86.07	184.20	12,035.5	-1,087.2	-19.1	1,087.2	2.02	-1.97	-0.47
13,208.0	85.99	184.04	12,042.0	-1,180.7	-25.9	1,180.8	0.19	-0.09	-0.17
13,302.0	86.68	183.13	12,048.0	-1,274.3	-31.7	1,274.4	1.21	0.73	-0.97
13,396.0	85.84	181.92	12,054.1	-1,368.0	-35.9	1,368.1	1.56	-0.89	-1.29
13,490.0	87.43	178.48	12,059.7	-1,461.8	-36.2	1,462.0	4.03	1.69	-3.66
13,585.0	90.78	181.15	12,061.2	-1,556.8	-35.9	1,556.9	4.51	3.53	2.81
13,679.0	89.21	178.92	12,061.2	-1,650.8	-35.9	1,650.9	2.90	-1.67	-2.37
13,773.0	89.53	180.39	12,062.2	-1,744.8	-35.4	1,744.9	1.60	0.34	1.56
13,868.0	86.90	179.67	12,065.2	-1,839.7	-35.4	1,839.8	2.87	-2.77	-0.76
13,962.0	87.85	177.83	12,069.5	-1,933.6	-33.4	1,933.7	2.20	1.01	-1.96
14,056.0	87.82	177.03	12,073.0	-2,027.4	-29.2	2,027.5	0.85	-0.03	-0.85
14,150.0	89.16	177.27	12,075.5	-2,121.3	-24.5	2,121.4	1.45	1.43	0.26
14,244.0	87.97	177.53	12,077.8	-2,215.2	-20.2	2,215.2	1.30	-1.27	0.28
14,339.0	88.27	176.20	12,081.0	-2,310.0	-15.0	2,310.0	1.43	0.32	-1.40

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well SEBASTIAN FEDERAL COM 704H
Project:	LEA COUNTY, NM (NM - E)	TVD Reference:	KB=30' @ 3615.8usft (SCAN QUEST)
Site:	SEBASTIAN FED COM PROJECT	MD Reference:	KB=30' @ 3615.8usft (SCAN QUEST)
Well:	SEBASTIAN FEDERAL COM 704H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWP	Database:	edm

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)
14,433.0	88.60	178.33	12,083.5	-2,403.8	-10.5	2,403.8	2.29	0.35	2.27
14,528.0	90.06	180.73	12,084.6	-2,498.8	-9.8	2,498.8	2.96	1.54	2.53
14,622.0	90.39	180.98	12,084.3	-2,592.8	-11.2	2,592.8	0.44	0.35	0.27
14,717.0	89.22	180.11	12,084.6	-2,687.8	-12.1	2,687.8	1.53	-1.23	-0.92
14,811.0	88.10	180.42	12,086.8	-2,781.7	-12.5	2,781.8	1.24	-1.19	0.33
14,905.0	87.76	181.33	12,090.2	-2,875.7	-13.9	2,875.7	1.03	-0.36	0.97
14,999.0	86.74	181.09	12,094.7	-2,969.5	-15.9	2,969.6	1.11	-1.09	-0.26
15,094.0	90.62	181.65	12,096.9	-3,064.5	-18.2	3,064.5	4.13	4.08	0.59
15,189.0	90.23	181.15	12,096.2	-3,159.4	-20.5	3,159.5	0.67	-0.41	-0.53
15,284.0	89.31	180.89	12,096.6	-3,254.4	-22.2	3,254.5	1.01	-0.97	-0.27
15,378.0	89.75	181.46	12,097.3	-3,348.4	-24.1	3,348.5	0.77	0.47	0.61
15,473.0	88.14	181.00	12,099.1	-3,443.4	-26.2	3,443.4	1.76	-1.69	-0.48
15,568.0	85.48	178.94	12,104.4	-3,538.2	-26.1	3,538.3	3.54	-2.80	-2.17
15,663.0	91.40	179.07	12,106.9	-3,633.1	-24.5	3,633.2	6.23	6.23	0.14
15,758.0	92.15	179.26	12,104.0	-3,728.1	-23.1	3,728.1	0.81	0.79	0.20
15,852.0	90.62	179.74	12,101.7	-3,822.0	-22.3	3,822.1	1.71	-1.63	0.51
15,947.0	88.59	178.90	12,102.4	-3,917.0	-21.2	3,917.1	2.31	-2.14	-0.88
16,042.0	86.26	179.91	12,106.7	-4,011.9	-20.2	4,011.9	2.67	-2.45	1.06
16,137.0	86.34	179.10	12,112.8	-4,106.7	-19.3	4,106.7	0.86	0.08	-0.85
16,231.0	87.14	173.73	12,118.1	-4,200.3	-13.5	4,200.3	5.77	0.85	-5.71
16,326.0	89.68	175.30	12,120.8	-4,294.8	-4.4	4,294.8	3.14	2.67	1.65
16,421.0	91.26	178.10	12,120.0	-4,389.7	1.1	4,389.6	3.38	1.66	2.95
16,515.0	89.68	180.03	12,119.2	-4,483.6	2.6	4,483.6	2.65	-1.68	2.05
16,609.0	88.73	180.67	12,120.5	-4,577.6	2.0	4,577.6	1.22	-1.01	0.68
16,704.0	87.51	179.62	12,123.6	-4,672.6	1.8	4,672.5	1.69	-1.28	-1.11
16,799.0	86.79	179.30	12,128.4	-4,767.5	2.7	4,767.4	0.83	-0.76	-0.34
16,893.0	85.36	179.56	12,134.8	-4,861.2	3.6	4,861.2	1.55	-1.52	0.28
16,942.0	86.61	180.27	12,138.2	-4,910.1	3.7	4,910.1	2.93	2.55	1.45
FINAL MWD									
16,961.0	86.61	180.27	12,139.4	-4,929.1	3.6	4,929.0	0.00	0.00	0.00
LTP @ 16961' MD									
17,011.0	86.61	180.27	12,142.3	-4,979.0	3.4	4,978.9	0.00	0.00	0.00
PTB									

Concho Resources LLC

Survey Report

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Project:	LEA COUNTY, NM (NM - E)	TVD Reference:	KB=30' @ 3615.8usft (SCAN QUEST)
Site:	SEBASTIAN FED COM PROJECT	MD Reference:	KB=30' @ 3615.8usft (SCAN QUEST)
Well:	SEBASTIAN FEDERAL COM 704H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWP	Database:	edm

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP (SEBASTIAN FE - actual wellpath misses target center by 187.0usft at 11930.5usft MD (11880.2 TVD, 38.6 N, -3.9 E) - Circle (radius 50.0)	0.00	0.00	12,006.0	149.4	-86.7	446,346.80	755,386.90	32° 13' 27.935 N	103° 30' 26.946 W
LTP (SEBASTIAN FEI - actual wellpath misses target center by 32.4usft at 16959.0usft MD (12139.2 TVD, -4927.1 N, 3.6 E) - Point	0.00	0.00	12,115.0	-4,928.4	-17.9	441,269.00	755,455.70	32° 12' 37.683 N	103° 30' 26.600 W
PBHL (SEBASTIAN F - actual wellpath misses target center by 24.1usft at 17009.8usft MD (12142.2 TVD, -4977.8 N, 3.4 E) - Rectangle (sides W100.0 H3,178.4 D20.0)	-1.16	359.51	12,130.0	-4,978.4	-17.4	441,219.00	755,456.20	32° 12' 37.188 N	103° 30' 26.598 W

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
11,638.3	11,627.0	149.0	-87.0	FTP @ 11638.3' MD
16,942.0	12,138.2	-4,910.1	3.7	FINAL MWD
16,961.0	12,139.4	-4,929.1	3.6	LTP @ 16961' MD
17,011.0	12,142.3	-4,979.0	3.4	PTB

Checked By: _____ Approved By: _____ Date: _____