

Rec'd 7/24/2020 - NMOCD

NORTHERN DELAWARE BASIN

LEA COUNTY, NM

BULLDOG

TIN FOIL FED COM #705H

OWB

Design: AWP

Standard Survey Report

14 January, 2020

Concho Resources LLC

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well TIN FOIL FED COM #705H
Project:	LEA COUNTY, NM	TVD Reference:	KB=26' @ 3205.9usft (N893)
Site:	BULLDOG	MD Reference:	KB=26' @ 3205.9usft (N893)
Well:	TIN FOIL FED COM #705H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWP	Database:	edm

Project	LEA COUNTY, NM		
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	TIN FOIL FED COM #705H, ACTIVE				
Well Position	+N/-S	0.0 usft	Northing:	404,992.30 usft	Latitude: 32° 6' 34.420 N
	+E/-W	0.0 usft	Easting:	806,896.10 usft	Longitude: 103° 20' 31.813 W
Position Uncertainty		3.0 usft	Wellhead Elevation:	usft	Ground Level: 3,178.9 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	WMM2015	5/2/2019	6.67	59.95	47,686.31574637

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	359.49	

Survey Program	Date	1/14/2020			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.0	11,520.0	GYRO-INTER (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4	
11,674.0	22,583.0	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	0.47	110.75	100.0	-0.1	0.4	-0.1	0.47	0.47	0.00	
125.0	0.47	110.53	125.0	-0.2	0.6	-0.2	0.01	0.00	-0.88	
150.0	0.43	111.21	150.0	-0.3	0.8	-0.3	0.16	-0.16	2.72	
175.0	0.47	108.09	175.0	-0.4	0.9	-0.4	0.19	0.16	-12.48	
200.0	0.48	106.85	200.0	-0.4	1.1	-0.4	0.06	0.04	-4.96	
225.0	0.45	113.63	225.0	-0.5	1.3	-0.5	0.25	-0.12	27.12	
250.0	0.46	126.79	250.0	-0.6	1.5	-0.6	0.42	0.04	52.64	
275.0	0.44	135.99	275.0	-0.7	1.6	-0.7	0.30	-0.08	36.80	
300.0	0.47	155.40	300.0	-0.9	1.8	-0.9	0.62	0.12	77.64	
325.0	0.42	158.95	325.0	-1.1	1.8	-1.1	0.23	-0.20	14.20	
350.0	0.37	165.14	350.0	-1.2	1.9	-1.2	0.26	-0.20	24.76	
375.0	0.47	181.00	375.0	-1.4	1.9	-1.4	0.61	0.40	63.44	
400.0	0.60	194.67	400.0	-1.6	1.9	-1.6	0.73	0.52	54.68	
425.0	0.73	197.93	425.0	-1.9	1.8	-1.9	0.54	0.52	13.04	

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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	0.74	200.64	450.0	-2.2	1.7	-2.2	0.14	0.04	10.84
475.0	0.78	206.42	475.0	-2.5	1.6	-2.5	0.35	0.16	23.12
500.0	0.80	205.97	500.0	-2.8	1.4	-2.8	0.08	0.08	-1.80
525.0	0.89	203.22	525.0	-3.2	1.2	-3.2	0.39	0.36	-11.00
550.0	0.92	206.33	550.0	-3.5	1.1	-3.5	0.23	0.12	12.44
575.0	0.91	203.21	575.0	-3.9	0.9	-3.9	0.20	-0.04	-12.48
600.0	0.97	205.44	600.0	-4.3	0.7	-4.3	0.28	0.24	8.92
625.0	0.97	202.58	625.0	-4.6	0.6	-4.6	0.19	0.00	-11.44
650.0	0.97	193.53	650.0	-5.0	0.4	-5.0	0.61	0.00	-36.20
675.0	1.04	185.13	675.0	-5.5	0.4	-5.5	0.65	0.28	-33.60
700.0	1.11	182.13	700.0	-5.9	0.3	-5.9	0.36	0.28	-12.00
725.0	1.16	173.40	724.9	-6.4	0.4	-6.4	0.72	0.20	-34.92
750.0	1.28	170.84	749.9	-7.0	0.4	-7.0	0.53	0.48	-10.24
775.0	1.34	166.01	774.9	-7.5	0.6	-7.5	0.50	0.24	-19.32
800.0	1.45	166.10	799.9	-8.1	0.7	-8.1	0.44	0.44	0.36
825.0	1.34	166.30	824.9	-8.7	0.8	-8.7	0.44	-0.44	0.80
850.0	1.36	165.66	849.9	-9.3	1.0	-9.3	0.10	0.08	-2.56
875.0	1.45	158.37	874.9	-9.9	1.2	-9.9	0.80	0.36	-29.16
900.0	1.65	156.26	899.9	-10.5	1.4	-10.5	0.83	0.80	-8.44
925.0	1.77	157.71	924.9	-11.2	1.7	-11.2	0.51	0.48	5.80
950.0	1.93	158.72	949.9	-11.9	2.0	-11.9	0.65	0.64	4.04
975.0	2.13	162.37	974.9	-12.7	2.3	-12.8	0.95	0.80	14.60
1,000.0	2.25	165.73	999.8	-13.7	2.6	-13.7	0.70	0.48	13.44
1,025.0	2.10	167.53	1,024.8	-14.6	2.8	-14.6	0.66	-0.60	7.20
1,050.0	2.16	166.24	1,049.8	-15.5	3.0	-15.5	0.31	0.24	-5.16
1,075.0	2.24	170.35	1,074.8	-16.4	3.2	-16.5	0.71	0.32	16.44
1,100.0	2.24	173.58	1,099.8	-17.4	3.3	-17.4	0.50	0.00	12.92
1,125.0	2.22	179.47	1,124.7	-18.4	3.4	-18.4	0.92	-0.08	23.56
1,150.0	2.25	182.88	1,149.7	-19.3	3.4	-19.4	0.55	0.12	13.64
1,175.0	2.28	186.96	1,174.7	-20.3	3.3	-20.4	0.66	0.12	16.32
1,200.0	2.30	187.96	1,199.7	-21.3	3.2	-21.3	0.18	0.08	4.00
1,225.0	2.36	187.80	1,224.7	-22.3	3.0	-22.4	0.24	0.24	-0.64
1,250.0	2.44	187.70	1,249.6	-23.4	2.9	-23.4	0.32	0.32	-0.40
1,275.0	2.44	188.01	1,274.6	-24.4	2.7	-24.4	0.05	0.00	1.24
1,300.0	2.42	189.82	1,299.6	-25.5	2.6	-25.5	0.32	-0.08	7.24
1,325.0	2.30	189.49	1,324.6	-26.5	2.4	-26.5	0.48	-0.48	-1.32
1,350.0	2.08	186.93	1,349.6	-27.4	2.3	-27.4	0.96	-0.88	-10.24
1,375.0	2.16	186.53	1,374.5	-28.3	2.2	-28.4	0.33	0.32	-1.60
1,400.0	2.04	184.20	1,399.5	-29.3	2.1	-29.3	0.59	-0.48	-9.32
1,425.0	2.04	184.06	1,424.5	-30.1	2.0	-30.2	0.02	0.00	-0.56
1,450.0	2.11	183.01	1,449.5	-31.0	2.0	-31.1	0.32	0.28	-4.20
1,475.0	2.23	187.27	1,474.5	-32.0	1.9	-32.0	0.80	0.48	17.04
1,500.0	2.01	179.42	1,499.5	-32.9	1.8	-32.9	1.46	-0.88	-31.40

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1,525.0	1.92	178.20	1,524.4	-33.8	1.8	-33.8	0.40	-0.36	-4.88
1,550.0	1.98	181.37	1,549.4	-34.6	1.8	-34.6	0.49	0.24	12.68
1,575.0	1.78	181.39	1,574.4	-35.4	1.8	-35.5	0.80	-0.80	0.08
1,600.0	1.04	170.52	1,599.4	-36.0	1.8	-36.1	3.13	-2.96	-43.48
1,625.0	0.50	118.88	1,624.4	-36.3	2.0	-36.3	3.31	-2.16	-206.56
1,650.0	0.61	86.59	1,649.4	-36.4	2.2	-36.4	1.30	0.44	-129.16
1,675.0	0.72	80.60	1,674.4	-36.3	2.5	-36.4	0.52	0.44	-23.96
1,700.0	0.67	81.40	1,699.4	-36.3	2.8	-36.3	0.20	-0.20	3.20
1,725.0	0.71	82.47	1,724.4	-36.2	3.1	-36.3	0.17	0.16	4.28
1,750.0	0.85	76.76	1,749.4	-36.2	3.4	-36.2	0.64	0.56	-22.84
1,775.0	0.93	74.87	1,774.4	-36.1	3.8	-36.1	0.34	0.32	-7.56
1,800.0	0.80	75.97	1,799.4	-36.0	4.2	-36.0	0.52	-0.52	4.40
1,825.0	0.72	72.20	1,824.4	-35.9	4.5	-35.9	0.38	-0.32	-15.08
1,850.0	0.68	68.81	1,849.4	-35.8	4.8	-35.8	0.23	-0.16	-13.56
1,875.0	0.82	67.60	1,874.4	-35.7	5.1	-35.7	0.56	0.56	-4.84
1,900.0	1.03	71.63	1,899.4	-35.5	5.5	-35.6	0.88	0.84	16.12
1,925.0	1.20	77.97	1,924.4	-35.4	5.9	-35.5	0.84	0.68	25.36
1,950.0	1.28	82.86	1,949.4	-35.3	6.5	-35.4	0.53	0.32	19.56
1,975.0	1.35	87.66	1,974.4	-35.3	7.0	-35.3	0.52	0.28	19.20
2,000.0	1.39	85.65	1,999.4	-35.2	7.6	-35.3	0.25	0.16	-8.04
2,025.0	1.58	85.29	2,024.4	-35.2	8.3	-35.3	0.76	0.76	-1.44
2,050.0	1.76	84.10	2,049.3	-35.1	9.0	-35.2	0.73	0.72	-4.76
2,075.0	1.76	84.79	2,074.3	-35.0	9.8	-35.1	0.08	0.00	2.76
2,100.0	1.78	85.48	2,099.3	-35.0	10.5	-35.1	0.12	0.08	2.76
2,125.0	1.93	85.96	2,124.3	-34.9	11.3	-35.0	0.60	0.60	1.92
2,150.0	1.99	83.96	2,149.3	-34.8	12.2	-35.0	0.36	0.24	-8.00
2,175.0	1.98	85.77	2,174.3	-34.8	13.0	-34.9	0.25	-0.04	7.24
2,200.0	1.91	87.96	2,199.3	-34.7	13.9	-34.8	0.41	-0.28	8.76
2,225.0	2.05	85.42	2,224.2	-34.7	14.8	-34.8	0.66	0.56	-10.16
2,250.0	2.37	79.65	2,249.2	-34.5	15.7	-34.7	1.56	1.28	-23.08
2,275.0	2.37	80.30	2,274.2	-34.4	16.7	-34.5	0.11	0.00	2.60
2,300.0	2.47	80.45	2,299.2	-34.2	17.8	-34.3	0.40	0.40	0.60
2,325.0	2.60	79.11	2,324.2	-34.0	18.9	-34.2	0.57	0.52	-5.36
2,350.0	2.69	79.84	2,349.1	-33.8	20.0	-34.0	0.38	0.36	2.92
2,375.0	3.01	78.41	2,374.1	-33.5	21.2	-33.7	1.31	1.28	-5.72
2,400.0	3.09	80.31	2,399.1	-33.3	22.5	-33.5	0.52	0.32	7.60
2,425.0	3.26	77.87	2,424.0	-33.0	23.9	-33.3	0.87	0.68	-9.76
2,450.0	3.41	78.17	2,449.0	-32.7	25.3	-33.0	0.60	0.60	1.20
2,475.0	3.43	78.84	2,473.9	-32.4	26.8	-32.7	0.18	0.08	2.68
2,500.0	3.40	78.39	2,498.9	-32.1	28.2	-32.4	0.16	-0.12	-1.80
2,525.0	3.47	82.93	2,523.9	-31.9	29.7	-32.2	1.12	0.28	18.16
2,550.0	3.50	94.26	2,548.8	-31.9	31.2	-32.1	2.75	0.12	45.32
2,575.0	3.65	104.50	2,573.8	-32.1	32.7	-32.4	2.62	0.60	40.96

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2,600.0	3.74	104.85	2,598.7	-32.5	34.3	-32.8	0.37	0.36	1.40
2,625.0	3.60	110.33	2,623.7	-33.0	35.8	-33.3	1.51	-0.56	21.92
2,650.0	3.54	121.89	2,648.6	-33.7	37.2	-34.0	2.88	-0.24	46.24
2,675.0	3.65	132.83	2,673.6	-34.6	38.5	-35.0	2.77	0.44	43.76
2,700.0	3.68	134.88	2,698.5	-35.7	39.6	-36.1	0.54	0.12	8.20
2,725.0	3.79	141.60	2,723.5	-37.0	40.7	-37.3	1.80	0.44	26.88
2,750.0	4.24	153.18	2,748.4	-38.4	41.6	-38.8	3.70	1.80	46.32
2,775.0	4.54	158.74	2,773.3	-40.2	42.4	-40.6	2.08	1.20	22.24
2,800.0	4.52	157.52	2,798.2	-42.0	43.1	-42.4	0.39	-0.08	-4.88
2,825.0	4.48	163.55	2,823.2	-43.9	43.8	-44.3	1.90	-0.16	24.12
2,850.0	4.39	176.29	2,848.1	-45.8	44.1	-46.1	3.95	-0.36	50.96
2,875.0	4.50	179.31	2,873.0	-47.7	44.2	-48.1	1.03	0.44	12.08
2,900.0	4.48	179.24	2,897.9	-49.6	44.2	-50.0	0.08	-0.08	-0.28
2,925.0	4.44	179.12	2,922.9	-51.6	44.2	-52.0	0.16	-0.16	-0.48
2,950.0	4.49	179.74	2,947.8	-53.5	44.3	-53.9	0.28	0.20	2.48
2,975.0	4.22	177.78	2,972.7	-55.4	44.3	-55.8	1.23	-1.08	-7.84
3,000.0	3.95	176.77	2,997.6	-57.2	44.4	-57.6	1.12	-1.08	-4.04
3,025.0	3.87	177.77	3,022.6	-58.9	44.5	-59.3	0.42	-0.32	4.00
3,050.0	3.62	177.69	3,047.5	-60.5	44.5	-60.9	1.00	-1.00	-0.32
3,075.0	3.41	173.20	3,072.5	-62.1	44.7	-62.5	1.38	-0.84	-17.96
3,100.0	3.40	172.38	3,097.4	-63.5	44.8	-63.9	0.20	-0.04	-3.28
3,125.0	3.11	167.63	3,122.4	-64.9	45.1	-65.3	1.58	-1.16	-19.00
3,150.0	3.19	163.19	3,147.4	-66.3	45.4	-66.7	1.03	0.32	-17.76
3,175.0	3.17	166.49	3,172.3	-67.6	45.8	-68.0	0.74	-0.08	13.20
3,200.0	3.18	169.38	3,197.3	-69.0	46.1	-69.4	0.64	0.04	11.56
3,225.0	3.48	175.16	3,222.2	-70.4	46.3	-70.8	1.80	1.20	23.12
3,250.0	3.47	176.21	3,247.2	-71.9	46.4	-72.3	0.26	-0.04	4.20
3,275.0	3.54	175.81	3,272.2	-73.4	46.5	-73.8	0.30	0.28	-1.60
3,300.0	3.65	175.53	3,297.1	-75.0	46.6	-75.4	0.45	0.44	-1.12
3,325.0	3.48	174.74	3,322.1	-76.5	46.7	-77.0	0.71	-0.68	-3.16
3,350.0	3.50	172.85	3,347.0	-78.1	46.9	-78.5	0.47	0.08	-7.56
3,375.0	3.42	173.67	3,372.0	-79.6	47.1	-80.0	0.38	-0.32	3.28
3,400.0	3.41	175.97	3,396.9	-81.0	47.2	-81.5	0.55	-0.04	9.20
3,425.0	3.60	195.61	3,421.9	-82.5	47.1	-83.0	4.84	0.76	78.56
3,450.0	3.79	199.01	3,446.8	-84.1	46.6	-84.5	1.16	0.76	13.60
3,475.0	3.84	198.58	3,471.8	-85.7	46.0	-86.1	0.23	0.20	-1.72
3,500.0	3.94	197.98	3,496.7	-87.3	45.5	-87.7	0.43	0.40	-2.40
3,525.0	3.91	198.79	3,521.7	-88.9	45.0	-89.3	0.25	-0.12	3.24
3,550.0	3.99	200.46	3,546.6	-90.5	44.4	-90.9	0.56	0.32	6.68
3,575.0	3.81	202.12	3,571.5	-92.1	43.8	-92.5	0.85	-0.72	6.64
3,600.0	3.91	203.74	3,596.5	-93.6	43.1	-94.0	0.59	0.40	6.48
3,625.0	3.82	205.78	3,621.4	-95.2	42.4	-95.5	0.66	-0.36	8.16
3,650.0	3.89	206.45	3,646.4	-96.7	41.7	-97.1	0.33	0.28	2.68
3,675.0	3.88	207.32	3,671.3	-98.2	40.9	-98.6	0.24	-0.04	3.48

Concho Resources LLC

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well TIN FOIL FED COM #705H
Project:	LEA COUNTY, NM	TVD Reference:	KB=26' @ 3205.9usft (N893)
Site:	BULLDOG	MD Reference:	KB=26' @ 3205.9usft (N893)
Well:	TIN FOIL FED COM #705H	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	3.90	208.10	3,696.3	-99.7	40.1	-100.0	0.23	0.08	3.12
3,725.0	3.96	206.33	3,721.2	-101.2	39.3	-101.6	0.54	0.24	-7.08
3,750.0	4.00	207.59	3,746.1	-102.8	38.6	-103.1	0.38	0.16	5.04
3,775.0	4.03	206.48	3,771.1	-104.3	37.8	-104.7	0.33	0.12	-4.44
3,800.0	4.00	204.17	3,796.0	-105.9	37.0	-106.2	0.66	-0.12	-9.24
3,825.0	3.84	197.35	3,821.0	-107.5	36.4	-107.8	1.97	-0.64	-27.28
3,850.0	3.70	188.89	3,845.9	-109.1	36.0	-109.4	2.29	-0.56	-33.84
3,875.0	3.63	177.60	3,870.8	-110.7	35.9	-111.0	2.90	-0.28	-45.16
3,900.0	3.68	167.52	3,895.8	-112.3	36.1	-112.6	2.57	0.20	-40.32
3,925.0	3.77	159.17	3,920.7	-113.8	36.6	-114.1	2.20	0.36	-33.40
3,950.0	4.04	153.76	3,945.7	-115.4	37.3	-115.7	1.83	1.08	-21.64
3,975.0	4.50	145.90	3,970.6	-117.0	38.2	-117.3	2.97	1.84	-31.44
4,000.0	4.88	138.35	3,995.5	-118.6	39.5	-118.9	2.90	1.52	-30.20
4,025.0	5.04	136.18	4,020.4	-120.2	41.0	-120.5	0.99	0.64	-8.68
4,050.0	5.14	136.96	4,045.3	-121.8	42.5	-122.1	0.49	0.40	3.12
4,075.0	5.26	144.64	4,070.2	-123.5	43.9	-123.9	2.82	0.48	30.72
4,100.0	5.58	150.73	4,095.1	-125.5	45.2	-125.9	2.63	1.28	24.36
4,125.0	5.62	151.88	4,120.0	-127.7	46.3	-128.1	0.48	0.16	4.60
4,150.0	5.53	151.47	4,144.9	-129.8	47.5	-130.2	0.39	-0.36	-1.64
4,175.0	5.57	149.88	4,169.8	-131.9	48.7	-132.3	0.64	0.16	-6.36
4,200.0	5.56	146.31	4,194.7	-134.0	50.0	-134.4	1.39	-0.04	-14.28
4,225.0	5.65	143.32	4,219.5	-136.0	51.4	-136.4	1.22	0.36	-11.96
4,250.0	5.19	136.86	4,244.4	-137.8	52.9	-138.2	3.05	-1.84	-25.84
4,275.0	4.77	134.83	4,269.3	-139.3	54.4	-139.8	1.82	-1.68	-8.12
4,300.0	4.57	132.25	4,294.2	-140.7	55.9	-141.2	1.16	-0.80	-10.32
4,325.0	4.65	127.65	4,319.2	-142.0	57.4	-142.5	1.51	0.32	-18.40
4,350.0	4.77	116.17	4,344.1	-143.1	59.1	-143.6	3.79	0.48	-45.92
4,375.0	5.17	105.35	4,369.0	-143.9	61.1	-144.4	4.07	1.60	-43.28
4,400.0	5.29	101.15	4,393.9	-144.4	63.4	-144.9	1.60	0.48	-16.80
4,425.0	5.41	100.19	4,418.8	-144.8	65.7	-145.4	0.60	0.48	-3.84
4,450.0	5.34	100.85	4,443.7	-145.2	68.0	-145.8	0.37	-0.28	2.64
4,475.0	5.27	101.91	4,468.6	-145.7	70.2	-146.3	0.48	-0.28	4.24
4,500.0	5.32	101.78	4,493.5	-146.2	72.5	-146.8	0.21	0.20	-0.52
4,525.0	5.15	100.68	4,518.3	-146.6	74.7	-147.3	0.79	-0.68	-4.40
4,550.0	4.52	100.39	4,543.3	-147.0	76.8	-147.7	2.52	-2.52	-1.16
4,575.0	3.97	101.87	4,568.2	-147.3	78.6	-148.0	2.24	-2.20	5.92
4,600.0	3.90	102.47	4,593.1	-147.7	80.3	-148.4	0.32	-0.28	2.40
4,625.0	4.13	106.55	4,618.1	-148.1	82.0	-148.9	1.47	0.92	16.32
4,650.0	4.78	121.06	4,643.0	-148.9	83.7	-149.7	5.18	2.60	58.04
4,675.0	5.29	127.91	4,667.9	-150.2	85.5	-151.0	3.15	2.04	27.40
4,700.0	5.30	129.69	4,692.8	-151.6	87.3	-152.4	0.66	0.04	7.12
4,725.0	5.39	134.77	4,717.7	-153.2	89.1	-154.0	1.93	0.36	20.32
4,750.0	5.66	151.43	4,742.6	-155.1	90.5	-155.9	6.48	1.08	66.64

Concho Resources LLC

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well TIN FOIL FED COM #705H
Project:	LEA COUNTY, NM	TVD Reference:	KB=26' @ 3205.9usft (N893)
Site:	BULLDOG	MD Reference:	KB=26' @ 3205.9usft (N893)
Well:	TIN FOIL FED COM #705H	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	6.09	168.46	4,767.4	-157.5	91.3	-158.3	7.15	1.72	68.12	
4,800.0	6.51	182.90	4,792.3	-160.2	91.5	-161.0	6.54	1.68	57.76	
4,825.0	6.44	185.06	4,817.1	-163.0	91.3	-163.8	1.01	-0.28	8.64	
4,850.0	6.40	184.89	4,842.0	-165.8	91.1	-166.6	0.18	-0.16	-0.68	
4,875.0	6.29	185.58	4,866.8	-168.6	90.8	-169.4	0.54	-0.44	2.76	
4,900.0	5.98	187.00	4,891.7	-171.2	90.5	-172.0	1.38	-1.24	5.68	
4,925.0	5.32	193.67	4,916.6	-173.6	90.1	-174.4	3.72	-2.64	26.68	
4,950.0	4.75	200.38	4,941.5	-175.7	89.5	-176.5	3.27	-2.28	26.84	
4,975.0	4.59	201.70	4,966.4	-177.6	88.7	-178.4	0.77	-0.64	5.28	
5,000.0	4.50	202.46	4,991.3	-179.5	88.0	-180.2	0.43	-0.36	3.04	
5,025.0	4.30	201.83	5,016.2	-181.2	87.3	-182.0	0.82	-0.80	-2.52	
5,050.0	4.19	202.01	5,041.2	-183.0	86.6	-183.7	0.44	-0.44	0.72	
5,075.0	4.02	202.18	5,066.1	-184.6	85.9	-185.4	0.68	-0.68	0.68	
5,100.0	3.74	202.85	5,091.0	-186.2	85.3	-186.9	1.13	-1.12	2.68	
5,125.0	3.59	203.81	5,116.0	-187.6	84.6	-188.4	0.65	-0.60	3.84	
5,150.0	3.35	204.43	5,140.9	-189.0	84.0	-189.8	0.97	-0.96	2.48	
5,175.0	3.18	203.33	5,165.9	-190.3	83.4	-191.1	0.72	-0.68	-4.40	
5,200.0	2.85	206.52	5,190.9	-191.5	82.9	-192.3	1.48	-1.32	12.76	
5,225.0	2.73	204.30	5,215.8	-192.6	82.4	-193.3	0.65	-0.48	-8.88	
5,250.0	2.65	205.17	5,240.8	-193.7	81.9	-194.4	0.36	-0.32	3.48	
5,275.0	3.00	209.84	5,265.8	-194.8	81.3	-195.5	1.67	1.40	18.68	
5,300.0	2.90	206.64	5,290.7	-195.9	80.7	-196.6	0.77	-0.40	-12.80	
5,325.0	2.76	205.87	5,315.7	-197.0	80.1	-197.7	0.58	-0.56	-3.08	
5,350.0	2.76	205.88	5,340.7	-198.1	79.6	-198.8	0.00	0.00	0.04	
5,375.0	2.92	205.47	5,365.6	-199.2	79.1	-199.9	0.65	0.64	-1.64	
5,400.0	3.13	206.72	5,390.6	-200.4	78.5	-201.1	0.88	0.84	5.00	
5,425.0	3.65	201.06	5,415.6	-201.7	77.9	-202.4	2.47	2.08	-22.64	
5,450.0	3.73	200.51	5,440.5	-203.3	77.3	-203.9	0.35	0.32	-2.20	
5,475.0	3.76	202.18	5,465.5	-204.8	76.7	-205.5	0.45	0.12	6.68	
5,500.0	3.71	200.54	5,490.4	-206.3	76.2	-207.0	0.47	-0.20	-6.56	
5,525.0	3.82	200.05	5,515.4	-207.8	75.6	-208.5	0.46	0.44	-1.96	
5,550.0	3.73	200.56	5,540.3	-209.4	75.0	-210.0	0.38	-0.36	2.04	
5,575.0	3.72	201.71	5,565.3	-210.9	74.4	-211.5	0.30	-0.04	4.60	
5,600.0	3.78	199.35	5,590.2	-212.4	73.9	-213.1	0.66	0.24	-9.44	
5,625.0	3.66	197.99	5,615.1	-214.0	73.3	-214.6	0.60	-0.48	-5.44	
5,650.0	3.53	197.13	5,640.1	-215.4	72.9	-216.1	0.56	-0.52	-3.44	
5,675.0	3.36	195.78	5,665.1	-216.9	72.4	-217.5	0.75	-0.68	-5.40	
5,700.0	3.01	193.71	5,690.0	-218.2	72.1	-218.9	1.47	-1.40	-8.28	
5,725.0	2.98	193.45	5,715.0	-219.5	71.8	-220.1	0.13	-0.12	-1.04	
5,750.0	2.86	190.91	5,739.9	-220.7	71.5	-221.4	0.71	-0.48	-10.16	
5,775.0	2.93	190.45	5,764.9	-222.0	71.3	-222.6	0.30	0.28	-1.84	
5,800.0	3.02	191.84	5,789.9	-223.3	71.0	-223.9	0.46	0.36	5.56	
5,825.0	3.05	194.60	5,814.8	-224.5	70.7	-225.2	0.60	0.12	11.04	

Concho Resources LLC

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well TIN FOIL FED COM #705H
Project:	LEA COUNTY, NM	TVD Reference:	KB=26' @ 3205.9usft (N893)
Site:	BULLDOG	MD Reference:	KB=26' @ 3205.9usft (N893)
Well:	TIN FOIL FED COM #705H	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	2.90	193.10	5,839.8	-225.8	70.4	-226.4	0.68	-0.60	-6.00
5,875.0	2.99	191.66	5,864.8	-227.1	70.1	-227.7	0.47	0.36	-5.76
5,900.0	3.05	193.23	5,889.7	-228.3	69.8	-229.0	0.41	0.24	6.28
5,925.0	3.04	193.21	5,914.7	-229.6	69.5	-230.3	0.04	-0.04	-0.08
5,950.0	3.05	193.40	5,939.7	-230.9	69.2	-231.5	0.06	0.04	0.76
5,975.0	3.06	193.72	5,964.6	-232.2	68.9	-232.8	0.08	0.04	1.28
6,000.0	2.81	190.77	5,989.6	-233.5	68.7	-234.1	1.17	-1.00	-11.80
6,025.0	2.70	189.07	6,014.6	-234.7	68.4	-235.3	0.55	-0.44	-6.80
6,050.0	2.66	187.93	6,039.5	-235.8	68.3	-236.4	0.27	-0.16	-4.56
6,075.0	2.53	187.97	6,064.5	-236.9	68.1	-237.5	0.52	-0.52	0.16
6,100.0	2.54	188.95	6,089.5	-238.0	68.0	-238.6	0.18	0.04	3.92
6,125.0	2.38	189.20	6,114.5	-239.1	67.8	-239.7	0.64	-0.64	1.00
6,150.0	2.31	188.06	6,139.5	-240.1	67.6	-240.7	0.34	-0.28	-4.56
6,175.0	2.28	187.02	6,164.4	-241.1	67.5	-241.7	0.21	-0.12	-4.16
6,200.0	2.28	185.65	6,189.4	-242.1	67.4	-242.7	0.22	0.00	-5.48
6,225.0	2.24	184.76	6,214.4	-243.1	67.3	-243.7	0.21	-0.16	-3.56
6,250.0	2.23	183.63	6,239.4	-244.0	67.2	-244.6	0.18	-0.04	-4.52
6,275.0	2.29	184.16	6,264.4	-245.0	67.2	-245.6	0.25	0.24	2.12
6,300.0	2.36	191.16	6,289.3	-246.0	67.0	-246.6	1.17	0.28	28.00
6,325.0	2.38	191.33	6,314.3	-247.0	66.8	-247.6	0.08	0.08	0.68
6,350.0	2.80	187.98	6,339.3	-248.2	66.6	-248.7	1.79	1.68	-13.40
6,375.0	2.61	191.14	6,364.3	-249.3	66.4	-249.9	0.97	-0.76	12.64
6,400.0	2.74	190.11	6,389.2	-250.5	66.2	-251.0	0.55	0.52	-4.12
6,425.0	2.61	191.82	6,414.2	-251.6	66.0	-252.2	0.61	-0.52	6.84
6,450.0	2.69	189.70	6,439.2	-252.7	65.8	-253.3	0.51	0.32	-8.48
6,475.0	2.76	188.95	6,464.2	-253.9	65.6	-254.5	0.31	0.28	-3.00
6,500.0	2.52	191.05	6,489.1	-255.1	65.4	-255.6	1.03	-0.96	8.40
6,525.0	2.54	188.67	6,514.1	-256.1	65.2	-256.7	0.43	0.08	-9.52
6,550.0	2.49	187.72	6,539.1	-257.2	65.1	-257.8	0.26	-0.20	-3.80
6,575.0	2.46	187.63	6,564.1	-258.3	64.9	-258.9	0.12	-0.12	-0.36
6,600.0	2.40	189.80	6,589.0	-259.3	64.8	-259.9	0.44	-0.24	8.68
6,625.0	2.34	190.56	6,614.0	-260.4	64.6	-260.9	0.27	-0.24	3.04
6,650.0	2.25	189.05	6,639.0	-261.3	64.4	-261.9	0.43	-0.36	-6.04
6,675.0	2.35	187.10	6,664.0	-262.3	64.3	-262.9	0.51	0.40	-7.80
6,700.0	2.37	190.87	6,688.9	-263.4	64.1	-263.9	0.63	0.08	15.08
6,725.0	2.39	187.89	6,713.9	-264.4	63.9	-264.9	0.50	0.08	-11.92
6,750.0	2.18	190.88	6,738.9	-265.4	63.8	-265.9	0.97	-0.84	11.96
6,775.0	2.13	188.71	6,763.9	-266.3	63.6	-266.8	0.38	-0.20	-8.68
6,800.0	2.07	187.34	6,788.9	-267.2	63.5	-267.8	0.31	-0.24	-5.48
6,825.0	2.02	190.11	6,813.9	-268.1	63.3	-268.6	0.44	-0.20	11.08
6,850.0	1.91	188.26	6,838.8	-268.9	63.2	-269.5	0.51	-0.44	-7.40
6,875.0	1.89	186.07	6,863.8	-269.7	63.1	-270.3	0.30	-0.08	-8.76
6,900.0	1.90	191.02	6,888.8	-270.6	63.0	-271.1	0.66	0.04	19.80
6,925.0	1.92	188.13	6,913.8	-271.4	62.8	-271.9	0.39	0.08	-11.56

Concho Resources LLC

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well TIN FOIL FED COM #705H
Project:	LEA COUNTY, NM	TVD Reference:	KB=26' @ 3205.9usft (N893)
Site:	BULLDOG	MD Reference:	KB=26' @ 3205.9usft (N893)
Well:	TIN FOIL FED COM #705H	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	1.98	185.77	6,938.8	-272.2	62.7	-272.8	0.40	0.24	-9.44
6,975.0	1.92	193.87	6,963.8	-273.1	62.6	-273.6	1.13	-0.24	32.40
7,000.0	1.86	194.87	6,988.8	-273.9	62.4	-274.4	0.27	-0.24	4.00
7,025.0	1.81	192.57	7,013.7	-274.6	62.2	-275.2	0.36	-0.20	-9.20
7,050.0	1.87	190.05	7,038.7	-275.4	62.0	-276.0	0.40	0.24	-10.08
7,075.0	1.91	190.87	7,063.7	-276.2	61.9	-276.8	0.19	0.16	3.28
7,100.0	1.98	192.62	7,088.7	-277.1	61.7	-277.6	0.37	0.28	7.00
7,125.0	1.89	197.07	7,113.7	-277.9	61.5	-278.4	0.70	-0.36	17.80
7,150.0	1.83	195.14	7,138.7	-278.7	61.3	-279.2	0.35	-0.24	-7.72
7,175.0	1.81	192.65	7,163.7	-279.4	61.1	-280.0	0.33	-0.08	-9.96
7,200.0	1.71	194.60	7,188.7	-280.2	60.9	-280.7	0.47	-0.40	7.80
7,225.0	1.48	194.85	7,213.6	-280.9	60.7	-281.4	0.92	-0.92	1.00
7,250.0	1.58	190.29	7,238.6	-281.5	60.6	-282.0	0.63	0.40	-18.24
7,275.0	1.51	195.08	7,263.6	-282.2	60.4	-282.7	0.59	-0.28	19.16
7,300.0	1.39	194.49	7,288.6	-282.8	60.3	-283.3	0.48	-0.48	-2.36
7,325.0	1.38	190.56	7,313.6	-283.4	60.1	-283.9	0.38	-0.04	-15.72
7,350.0	1.25	195.34	7,338.6	-283.9	60.0	-284.4	0.68	-0.52	19.12
7,375.0	1.33	192.27	7,363.6	-284.5	59.9	-285.0	0.42	0.32	-12.28
7,400.0	1.30	189.98	7,388.6	-285.0	59.8	-285.6	0.24	-0.12	-9.16
7,425.0	1.34	196.54	7,413.6	-285.6	59.6	-286.1	0.62	0.16	26.24
7,450.0	1.22	194.52	7,438.6	-286.1	59.5	-286.7	0.51	-0.48	-8.08
7,475.0	1.24	189.55	7,463.6	-286.7	59.4	-287.2	0.43	0.08	-19.88
7,500.0	1.10	189.34	7,488.6	-287.2	59.3	-287.7	0.56	-0.56	-0.84
7,525.0	1.21	194.45	7,513.6	-287.6	59.2	-288.2	0.60	0.44	20.44
7,550.0	1.00	196.39	7,538.6	-288.1	59.1	-288.6	0.85	-0.84	7.76
7,575.0	1.04	193.18	7,563.6	-288.5	59.0	-289.1	0.28	0.16	-12.84
7,600.0	0.95	193.01	7,588.5	-289.0	58.9	-289.5	0.36	-0.36	-0.68
7,625.0	0.91	190.27	7,613.5	-289.4	58.8	-289.9	0.24	-0.16	-10.96
7,650.0	0.93	189.04	7,638.5	-289.8	58.7	-290.3	0.11	0.08	-4.92
7,675.0	0.92	190.57	7,663.5	-290.2	58.6	-290.7	0.11	-0.04	6.12
7,700.0	0.82	191.99	7,688.5	-290.5	58.6	-291.0	0.41	-0.40	5.68
7,725.0	0.78	193.46	7,713.5	-290.9	58.5	-291.4	0.18	-0.16	5.88
7,750.0	0.75	194.71	7,738.5	-291.2	58.4	-291.7	0.14	-0.12	5.00
7,775.0	0.77	200.85	7,763.5	-291.5	58.3	-292.0	0.34	0.08	24.56
7,800.0	0.56	196.12	7,788.5	-291.8	58.2	-292.3	0.87	-0.84	-18.92
7,825.0	0.55	195.30	7,813.5	-292.0	58.1	-292.5	0.05	-0.04	-3.28
7,850.0	0.51	186.71	7,838.5	-292.2	58.1	-292.8	0.36	-0.16	-34.36
7,875.0	0.44	190.34	7,863.5	-292.4	58.1	-293.0	0.30	-0.28	14.52
7,900.0	0.38	203.68	7,888.5	-292.6	58.0	-293.1	0.45	-0.24	53.36
7,925.0	0.34	174.86	7,913.5	-292.8	58.0	-293.3	0.73	-0.16	-115.28
7,950.0	0.33	171.33	7,938.5	-292.9	58.0	-293.4	0.09	-0.04	-14.12
7,975.0	0.16	117.02	7,963.5	-293.0	58.0	-293.5	1.08	-0.68	-217.24
8,000.0	0.27	121.03	7,988.5	-293.0	58.1	-293.6	0.44	0.44	16.04

Concho Resources LLC

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well TIN FOIL FED COM #705H
Project:	LEA COUNTY, NM	TVD Reference:	KB=26' @ 3205.9usft (N893)
Site:	BULLDOG	MD Reference:	KB=26' @ 3205.9usft (N893)
Well:	TIN FOIL FED COM #705H	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	0.24	134.37	8,013.5	-293.1	58.2	-293.6	0.27	-0.12	53.36
8,050.0	0.28	87.81	8,038.5	-293.1	58.3	-293.7	0.84	0.16	-186.24
8,075.0	0.35	79.25	8,063.5	-293.1	58.5	-293.6	0.34	0.28	-34.24
8,100.0	0.47	86.90	8,088.5	-293.1	58.6	-293.6	0.53	0.48	30.60
8,125.0	0.53	84.55	8,113.5	-293.1	58.8	-293.6	0.25	0.24	-9.40
8,150.0	0.52	80.17	8,138.5	-293.1	59.1	-293.6	0.17	-0.04	-17.52
8,175.0	0.60	75.14	8,163.5	-293.0	59.3	-293.5	0.38	0.32	-20.12
8,200.0	0.43	89.00	8,188.5	-293.0	59.5	-293.5	0.84	-0.68	55.44
8,225.0	0.53	67.74	8,213.5	-292.9	59.7	-293.5	0.81	0.40	-85.04
8,250.0	0.62	86.94	8,238.5	-292.9	60.0	-293.4	0.85	0.36	76.80
8,275.0	0.50	84.48	8,263.5	-292.9	60.2	-293.4	0.49	-0.48	-9.84
8,300.0	0.47	71.60	8,288.5	-292.8	60.4	-293.3	0.45	-0.12	-51.52
8,325.0	0.47	67.46	8,313.5	-292.7	60.6	-293.3	0.14	0.00	-16.56
8,350.0	0.50	77.19	8,338.5	-292.7	60.8	-293.2	0.35	0.12	38.92
8,375.0	0.51	77.57	8,363.5	-292.6	61.0	-293.2	0.04	0.04	1.52
8,400.0	0.50	72.91	8,388.5	-292.6	61.2	-293.1	0.17	-0.04	-18.64
8,425.0	0.53	81.76	8,413.5	-292.5	61.5	-293.1	0.34	0.12	35.40
8,450.0	0.56	80.11	8,438.5	-292.5	61.7	-293.0	0.14	0.12	-6.60
8,475.0	0.57	80.95	8,463.5	-292.5	61.9	-293.0	0.05	0.04	3.36
8,500.0	0.54	72.61	8,488.5	-292.4	62.2	-292.9	0.34	-0.12	-33.36
8,525.0	0.56	69.07	8,513.5	-292.3	62.4	-292.9	0.16	0.08	-14.16
8,550.0	0.62	68.89	8,538.5	-292.2	62.6	-292.8	0.24	0.24	-0.72
8,575.0	0.70	82.67	8,563.5	-292.2	62.9	-292.7	0.71	0.32	55.12
8,600.0	0.54	78.97	8,588.5	-292.1	63.2	-292.7	0.66	-0.64	-14.80
8,625.0	0.51	116.63	8,613.5	-292.1	63.4	-292.7	1.36	-0.12	150.64
8,650.0	0.84	152.54	8,638.5	-292.4	63.6	-292.9	2.09	1.32	143.64
8,675.0	0.67	168.84	8,663.5	-292.7	63.7	-293.2	1.09	-0.68	65.20
8,700.0	0.65	146.15	8,688.5	-292.9	63.8	-293.5	1.04	-0.08	-90.76
8,725.0	0.76	144.85	8,713.5	-293.2	64.0	-293.7	0.44	0.44	-5.20
8,750.0	0.70	143.07	8,738.5	-293.4	64.2	-294.0	0.26	-0.24	-7.12
8,775.0	0.60	133.79	8,763.5	-293.6	64.4	-294.2	0.58	-0.40	-37.12
8,800.0	0.42	112.92	8,788.5	-293.8	64.5	-294.3	1.02	-0.72	-83.48
8,825.0	0.53	113.11	8,813.5	-293.9	64.7	-294.4	0.44	0.44	0.76
8,850.0	0.59	107.49	8,838.5	-293.9	65.0	-294.5	0.33	0.24	-22.48
8,875.0	0.57	92.86	8,863.5	-294.0	65.2	-294.6	0.60	-0.08	-58.52
8,900.0	0.60	75.75	8,888.5	-294.0	65.5	-294.5	0.71	0.12	-68.44
8,925.0	0.71	71.83	8,913.5	-293.9	65.7	-294.5	0.47	0.44	-15.68
8,950.0	0.80	72.55	8,938.5	-293.8	66.0	-294.4	0.36	0.36	2.88
8,975.0	0.78	70.12	8,963.5	-293.7	66.4	-294.3	0.16	-0.08	-9.72
9,000.0	0.85	65.56	8,988.5	-293.5	66.7	-294.1	0.38	0.28	-18.24
9,025.0	0.99	62.51	9,013.5	-293.4	67.1	-293.9	0.59	0.56	-12.20
9,050.0	0.92	59.30	9,038.5	-293.2	67.4	-293.7	0.35	-0.28	-12.84
9,075.0	1.03	56.01	9,063.5	-292.9	67.8	-293.5	0.49	0.44	-13.16

Concho Resources LLC

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well TIN FOIL FED COM #705H
Project:	LEA COUNTY, NM	TVD Reference:	KB=26' @ 3205.9usft (N893)
Site:	BULLDOG	MD Reference:	KB=26' @ 3205.9usft (N893)
Well:	TIN FOIL FED COM #705H	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	1.11	63.57	9,088.5	-292.7	68.2	-293.3	0.65	0.32	30.24
9,125.0	1.18	60.04	9,113.5	-292.5	68.6	-293.1	0.40	0.28	-14.12
9,150.0	1.29	61.29	9,138.4	-292.2	69.1	-292.8	0.45	0.44	5.00
9,175.0	1.29	57.99	9,163.4	-291.9	69.6	-292.5	0.30	0.00	-13.20
9,200.0	1.31	50.51	9,188.4	-291.6	70.0	-292.2	0.68	0.08	-29.92
9,225.0	1.51	54.99	9,213.4	-291.2	70.5	-291.8	0.91	0.80	17.92
9,250.0	1.42	60.07	9,238.4	-290.9	71.1	-291.5	0.63	-0.36	20.32
9,275.0	1.56	48.31	9,263.4	-290.5	71.6	-291.1	1.34	0.56	-47.04
9,300.0	1.49	55.45	9,288.4	-290.1	72.1	-290.7	0.81	-0.28	28.56
9,325.0	1.47	53.83	9,313.4	-289.7	72.6	-290.3	0.19	-0.08	-6.48
9,350.0	1.53	54.24	9,338.4	-289.3	73.2	-290.0	0.24	0.24	1.64
9,375.0	1.48	51.69	9,363.4	-288.9	73.7	-289.6	0.33	-0.20	-10.20
9,400.0	1.42	50.94	9,388.4	-288.5	74.2	-289.2	0.25	-0.24	-3.00
9,425.0	1.48	48.97	9,413.4	-288.1	74.7	-288.8	0.31	0.24	-7.88
9,450.0	1.47	48.57	9,438.4	-287.7	75.2	-288.4	0.06	-0.04	-1.60
9,475.0	1.49	45.02	9,463.3	-287.2	75.6	-287.9	0.38	0.08	-14.20
9,500.0	1.48	40.37	9,488.3	-286.8	76.1	-287.4	0.48	-0.04	-18.60
9,525.0	1.35	36.46	9,513.3	-286.3	76.4	-287.0	0.65	-0.52	-15.64
9,550.0	1.38	33.58	9,538.3	-285.8	76.8	-286.5	0.30	0.12	-11.52
9,575.0	1.35	30.55	9,563.3	-285.3	77.1	-286.0	0.31	-0.12	-12.12
9,600.0	1.41	27.21	9,588.3	-284.8	77.4	-285.5	0.40	0.24	-13.36
9,625.0	1.33	26.56	9,613.3	-284.2	77.7	-284.9	0.33	-0.32	-2.60
9,650.0	1.32	30.20	9,638.3	-283.7	77.9	-284.4	0.34	-0.04	14.56
9,675.0	1.35	23.63	9,663.3	-283.2	78.2	-283.9	0.62	0.12	-26.28
9,700.0	1.33	26.65	9,688.3	-282.7	78.5	-283.4	0.29	-0.08	12.08
9,725.0	1.14	26.64	9,713.3	-282.2	78.7	-282.9	0.76	-0.76	-0.04
9,750.0	1.19	30.72	9,738.3	-281.8	78.9	-282.5	0.39	0.20	16.32
9,775.0	1.26	39.26	9,763.3	-281.3	79.2	-282.0	0.78	0.28	34.16
9,800.0	1.21	32.55	9,788.3	-280.9	79.6	-281.6	0.61	-0.20	-26.84
9,825.0	1.41	33.42	9,813.2	-280.4	79.9	-281.1	0.80	0.80	3.48
9,850.0	1.35	36.21	9,838.2	-279.9	80.2	-280.6	0.36	-0.24	11.16
9,875.0	1.41	34.16	9,863.2	-279.4	80.6	-280.1	0.31	0.24	-8.20
9,900.0	1.28	34.28	9,888.2	-278.9	80.9	-279.6	0.52	-0.52	0.48
9,925.0	1.13	34.85	9,913.2	-278.5	81.2	-279.2	0.60	-0.60	2.28
9,950.0	1.03	20.60	9,938.2	-278.1	81.4	-278.8	1.14	-0.40	-57.00
9,975.0	0.93	5.35	9,963.2	-277.7	81.5	-278.4	1.11	-0.40	-61.00
10,000.0	0.93	349.47	9,988.2	-277.3	81.5	-278.0	1.03	0.00	-63.52
10,025.0	1.13	319.72	10,013.2	-276.9	81.3	-277.6	2.25	0.80	-119.00
10,050.0	1.36	312.11	10,038.2	-276.5	80.9	-277.2	1.13	0.92	-30.44
10,075.0	1.43	310.05	10,063.2	-276.1	80.5	-276.8	0.34	0.28	-8.24
10,100.0	1.32	316.10	10,088.2	-275.7	80.0	-276.4	0.73	-0.44	24.20
10,125.0	2.05	328.49	10,113.2	-275.1	79.6	-275.8	3.25	2.92	49.56
10,150.0	2.27	331.77	10,138.2	-274.3	79.1	-275.0	1.01	0.88	13.12
10,175.0	2.28	332.30	10,163.1	-273.4	78.6	-274.1	0.09	0.04	2.12

Concho Resources LLC

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well TIN FOIL FED COM #705H
Project:	LEA COUNTY, NM	TVD Reference:	KB=26' @ 3205.9usft (N893)
Site:	BULLDOG	MD Reference:	KB=26' @ 3205.9usft (N893)
Well:	TIN FOIL FED COM #705H	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	2.30	331.59	10,188.1	-272.5	78.2	-273.2	0.14	0.08	-2.84
10,225.0	2.44	327.37	10,213.1	-271.6	77.7	-272.3	0.89	0.56	-16.88
10,250.0	2.37	316.45	10,238.1	-270.8	77.0	-271.5	1.85	-0.28	-43.68
10,275.0	2.64	301.32	10,263.1	-270.1	76.2	-270.8	2.85	1.08	-60.52
10,300.0	2.93	297.09	10,288.0	-269.6	75.1	-270.2	1.42	1.16	-16.92
10,325.0	3.33	291.29	10,313.0	-269.0	73.9	-269.6	2.04	1.60	-23.20
10,350.0	3.98	290.45	10,337.9	-268.4	72.4	-269.1	2.61	2.60	-3.36
10,375.0	4.45	288.42	10,362.9	-267.8	70.6	-268.4	1.97	1.88	-8.12
10,400.0	4.60	290.27	10,387.8	-267.2	68.8	-267.8	0.84	0.60	7.40
10,425.0	4.43	289.09	10,412.7	-266.5	66.9	-267.1	0.77	-0.68	-4.72
10,450.0	4.20	290.20	10,437.6	-265.9	65.1	-266.4	0.98	-0.92	4.44
10,475.0	3.83	290.62	10,462.6	-265.3	63.5	-265.8	1.48	-1.48	1.68
10,500.0	3.65	293.78	10,487.5	-264.6	62.0	-265.2	1.09	-0.72	12.64
10,525.0	3.46	292.52	10,512.5	-264.0	60.6	-264.6	0.82	-0.76	-5.04
10,550.0	3.49	294.77	10,537.4	-263.4	59.2	-263.9	0.56	0.12	9.00
10,575.0	3.35	295.23	10,562.4	-262.8	57.8	-263.3	0.57	-0.56	1.84
10,600.0	3.39	295.71	10,587.3	-262.2	56.5	-262.7	0.20	0.16	1.92
10,625.0	2.99	291.51	10,612.3	-261.6	55.2	-262.1	1.85	-1.60	-16.80
10,650.0	2.54	290.22	10,637.3	-261.2	54.1	-261.7	1.82	-1.80	-5.16
10,675.0	2.47	286.98	10,662.3	-260.8	53.1	-261.3	0.63	-0.28	-12.96
10,700.0	2.52	286.80	10,687.2	-260.5	52.0	-261.0	0.20	0.20	-0.72
10,725.0	2.62	291.40	10,712.2	-260.1	51.0	-260.6	0.92	0.40	18.40
10,750.0	2.55	299.93	10,737.2	-259.7	50.0	-260.1	1.56	-0.28	34.12
10,775.0	2.60	300.24	10,762.2	-259.1	49.0	-259.5	0.21	0.20	1.24
10,800.0	2.57	301.42	10,787.1	-258.5	48.0	-258.9	0.24	-0.12	4.72
10,825.0	2.28	295.32	10,812.1	-258.0	47.1	-258.4	1.55	-1.16	-24.40
10,850.0	2.18	290.35	10,837.1	-257.6	46.2	-258.0	0.87	-0.40	-19.88
10,875.0	2.18	292.09	10,862.1	-257.3	45.3	-257.7	0.26	0.00	6.96
10,900.0	2.24	291.71	10,887.0	-256.9	44.4	-257.3	0.25	0.24	-1.52
10,925.0	2.23	294.80	10,912.0	-256.5	43.5	-256.9	0.48	-0.04	12.36
10,950.0	1.18	293.57	10,937.0	-256.2	42.8	-256.6	4.20	-4.20	-4.92
10,975.0	0.26	301.64	10,962.0	-256.1	42.6	-256.5	3.69	-3.68	32.28
11,000.0	0.11	306.36	10,987.0	-256.1	42.5	-256.4	0.60	-0.60	18.88
11,025.0	0.19	214.49	11,012.0	-256.1	42.4	-256.5	0.89	0.32	-367.48
11,050.0	0.71	218.08	11,037.0	-256.2	42.3	-256.6	2.08	2.08	14.36
11,075.0	1.56	218.79	11,062.0	-256.6	42.0	-257.0	3.40	3.40	2.84
11,100.0	2.03	223.55	11,087.0	-257.2	41.5	-257.6	1.97	1.88	19.04
11,125.0	2.12	218.17	11,112.0	-257.9	40.9	-258.3	0.86	0.36	-21.52
11,150.0	1.99	208.88	11,137.0	-258.6	40.4	-259.0	1.43	-0.52	-37.16
11,175.0	1.92	204.01	11,162.0	-259.4	40.0	-259.8	0.72	-0.28	-19.48
11,200.0	1.88	198.15	11,186.9	-260.2	39.7	-260.5	0.79	-0.16	-23.44
11,225.0	1.96	201.28	11,211.9	-261.0	39.5	-261.3	0.53	0.32	12.52
11,250.0	1.91	198.68	11,236.9	-261.8	39.2	-262.1	0.40	-0.20	-10.40

Concho Resources LLC

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well TIN FOIL FED COM #705H
Project:	LEA COUNTY, NM	TVD Reference:	KB=26' @ 3205.9usft (N893)
Site:	BULLDOG	MD Reference:	KB=26' @ 3205.9usft (N893)
Well:	TIN FOIL FED COM #705H	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)
11,275.0	1.95	201.54	11,261.9	-262.5	38.9	-262.9	0.42	0.16	11.44
11,300.0	1.94	204.10	11,286.9	-263.3	38.5	-263.7	0.35	-0.04	10.24
11,325.0	1.98	209.54	11,311.9	-264.1	38.2	-264.4	0.76	0.16	21.76
11,350.0	1.88	210.89	11,336.9	-264.8	37.7	-265.1	0.44	-0.40	5.40
11,375.0	1.81	221.42	11,361.8	-265.5	37.3	-265.8	1.38	-0.28	42.12
11,400.0	1.77	225.46	11,386.8	-266.0	36.7	-266.4	0.53	-0.16	16.16
11,425.0	1.79	221.61	11,411.8	-266.6	36.2	-266.9	0.48	0.08	-15.40
11,450.0	1.73	219.23	11,436.8	-267.2	35.7	-267.5	0.38	-0.24	-9.52
11,475.0	1.62	219.51	11,461.8	-267.7	35.2	-268.0	0.44	-0.44	1.12
11,500.0	1.52	214.26	11,486.8	-268.3	34.8	-268.6	0.70	-0.40	-21.00
11,520.0	1.56	218.09	11,506.8	-268.7	34.5	-269.0	0.55	0.20	19.15
11,674.0	0.98	199.95	11,660.7	-271.6	32.8	-271.9	0.45	-0.38	-11.78
11,706.0	0.86	198.59	11,692.7	-272.1	32.6	-272.4	0.38	-0.38	-4.25
11,738.0	0.70	241.77	11,724.7	-272.4	32.3	-272.7	1.85	-0.50	134.94
11,769.0	1.83	291.22	11,755.7	-272.3	31.7	-272.6	4.76	3.65	159.52
11,801.0	2.99	305.81	11,787.7	-271.7	30.6	-271.9	4.07	3.63	45.59
11,833.0	4.34	316.30	11,819.6	-270.3	29.0	-270.5	4.69	4.22	32.78
11,864.0	5.76	323.04	11,850.5	-268.2	27.3	-268.4	4.96	4.58	21.74
11,887.0	6.55	325.65	11,873.4	-266.2	25.9	-266.4	3.64	3.43	11.35
11,949.0	11.99	317.63	11,934.5	-258.5	19.5	-258.7	9.00	8.77	-12.94
11,980.0	16.05	321.16	11,964.6	-252.8	14.7	-252.9	13.38	13.10	11.39
12,012.0	20.57	319.93	11,995.0	-245.0	8.3	-245.1	14.18	14.13	-3.84
12,043.0	26.28	317.77	12,023.4	-235.8	0.1	-235.8	18.62	18.42	-6.97
12,075.0	31.01	315.85	12,051.5	-224.6	-10.4	-224.5	15.06	14.78	-6.00
12,106.0	35.01	316.27	12,077.5	-212.5	-22.1	-212.2	12.92	12.90	1.35
12,138.0	38.28	316.58	12,103.2	-198.6	-35.2	-198.3	10.24	10.22	0.97
12,170.0	41.43	317.99	12,127.7	-183.5	-49.1	-183.1	10.24	9.84	4.41
12,201.0	44.89	319.78	12,150.3	-167.6	-63.1	-167.0	11.84	11.16	5.77
12,209.7	45.83	320.52	12,156.4	-162.8	-67.0	-162.2	12.40	10.81	8.54
FTP (TIN FOIL FED COM #705H)									
12,233.0	48.37	322.40	12,172.3	-149.5	-77.7	-148.8	12.40	10.90	8.06
12,265.0	52.50	324.04	12,192.7	-129.7	-92.4	-128.9	13.50	12.91	5.13
12,297.0	56.21	326.70	12,211.3	-108.3	-107.2	-107.3	13.42	11.59	8.31
12,328.0	60.42	328.71	12,227.6	-86.0	-121.3	-84.9	14.66	13.58	6.48
12,360.0	62.95	328.52	12,242.8	-62.0	-135.9	-60.7	7.92	7.91	-0.59
12,390.0	66.09	329.69	12,255.7	-38.7	-149.8	-37.4	11.04	10.47	3.90
12,421.0	69.69	331.49	12,267.4	-13.7	-163.9	-12.2	12.80	11.61	5.81
12,452.0	72.97	332.65	12,277.3	12.2	-177.7	13.8	11.16	10.58	3.74
12,484.0	76.01	335.31	12,285.8	39.9	-191.2	41.7	12.43	9.50	8.31
12,516.0	79.07	338.26	12,292.7	68.7	-203.5	70.5	13.13	9.56	9.22
12,547.0	82.60	340.19	12,297.7	97.3	-214.4	99.2	12.94	11.39	6.23
12,579.0	87.04	341.56	12,300.6	127.4	-224.8	129.4	14.52	13.88	4.28
12,610.0	93.28	343.88	12,300.5	157.0	-234.0	159.0	21.47	20.13	7.48

Concho Resources LLC

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well TIN FOIL FED COM #705H
Project:	LEA COUNTY, NM	TVD Reference:	KB=26' @ 3205.9usft (N893)
Site:	BULLDOG	MD Reference:	KB=26' @ 3205.9usft (N893)
Well:	TIN FOIL FED COM #705H	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)	
12,642.0	95.24	348.03	12,298.1	187.9	-241.7	190.1	14.31	6.13	12.97	
12,674.0	94.61	353.45	12,295.4	219.4	-246.9	221.6	16.99	-1.97	16.94	
12,781.0	91.45	4.19	12,289.7	326.0	-249.1	328.2	10.45	-2.95	10.04	
12,876.0	91.30	3.85	12,287.4	420.7	-242.4	422.9	0.39	-0.16	-0.36	
12,970.0	91.96	4.21	12,284.7	514.5	-235.8	516.6	0.80	0.70	0.38	
13,065.0	92.86	4.76	12,280.7	609.1	-228.4	611.1	1.11	0.95	0.58	
13,160.0	92.14	4.07	12,276.6	703.7	-221.1	705.7	1.05	-0.76	-0.73	
13,255.0	91.73	2.54	12,273.4	798.5	-215.6	800.4	1.67	-0.43	-1.61	
13,350.0	91.91	0.91	12,270.4	893.4	-212.7	895.3	1.73	0.19	-1.72	
13,445.0	92.80	1.94	12,266.5	988.3	-210.4	990.2	1.43	0.94	1.08	
13,540.0	93.32	1.64	12,261.4	1,083.1	-207.4	1,084.9	0.63	0.55	-0.32	
13,634.0	93.86	2.15	12,255.5	1,176.9	-204.3	1,178.7	0.79	0.57	0.54	
13,729.0	92.57	2.72	12,250.2	1,271.7	-200.3	1,273.4	1.48	-1.36	0.60	
13,836.0	93.15	2.68	12,244.8	1,378.4	-195.2	1,380.1	0.54	0.54	-0.04	
13,930.0	92.26	3.13	12,240.4	1,472.2	-190.5	1,473.8	1.06	-0.95	0.48	
14,024.0	89.93	1.02	12,238.6	1,566.1	-187.1	1,567.7	3.34	-2.48	-2.24	
14,120.0	88.81	0.43	12,239.7	1,662.1	-185.9	1,663.7	1.32	-1.17	-0.61	
14,214.0	88.69	359.88	12,241.7	1,756.0	-185.6	1,757.6	0.60	-0.13	-0.59	
14,308.0	90.16	359.03	12,242.7	1,850.0	-186.5	1,851.6	1.81	1.56	-0.90	
14,402.0	90.73	358.75	12,241.9	1,944.0	-188.3	1,945.6	0.68	0.61	-0.30	
14,497.0	90.68	358.67	12,240.8	2,039.0	-190.5	2,040.6	0.10	-0.05	-0.08	
14,590.0	90.79	358.71	12,239.6	2,131.9	-192.6	2,133.6	0.13	0.12	0.04	
14,684.0	90.82	359.00	12,238.2	2,225.9	-194.5	2,227.6	0.31	0.03	0.31	
14,780.0	90.76	359.59	12,236.9	2,321.9	-195.7	2,323.6	0.62	-0.06	0.61	
14,873.0	90.85	359.69	12,235.6	2,414.9	-196.2	2,416.6	0.14	0.10	0.11	
14,967.0	90.93	0.04	12,234.2	2,508.9	-196.5	2,510.5	0.38	0.09	0.37	
15,062.0	91.08	0.24	12,232.5	2,603.9	-196.2	2,605.5	0.26	0.16	0.21	
15,157.0	92.78	359.01	12,229.3	2,698.8	-196.8	2,700.5	2.21	1.79	-1.29	
15,252.0	92.83	357.49	12,224.6	2,793.6	-199.7	2,795.3	1.60	0.05	-1.60	
15,347.0	92.98	355.94	12,219.8	2,888.4	-205.2	2,890.1	1.64	0.16	-1.63	
15,441.0	92.89	354.72	12,215.0	2,981.9	-212.8	2,983.7	1.30	-0.10	-1.30	
15,536.0	93.01	353.18	12,210.1	3,076.3	-222.8	3,078.1	1.62	0.13	-1.62	
15,644.0	88.65	353.75	12,208.6	3,183.5	-235.1	3,185.5	4.07	-4.04	0.53	
15,739.0	88.36	356.82	12,211.0	3,278.2	-242.9	3,280.2	3.24	-0.31	3.23	
15,755.6	87.79	357.40	12,211.6	3,294.7	-243.8	3,296.8	4.86	-3.41	3.47	
T1 (TIN FOIL FED COM #705H)										
15,833.0	85.16	0.09	12,216.4	3,372.0	-245.5	3,374.0	4.86	-3.40	3.48	
15,927.0	87.76	359.72	12,222.2	3,465.8	-245.6	3,467.8	2.79	2.77	-0.39	
16,022.0	89.45	2.15	12,224.5	3,560.7	-244.1	3,562.8	3.11	1.78	2.56	
16,116.0	90.66	1.95	12,224.4	3,654.7	-240.7	3,656.7	1.30	1.29	-0.21	
16,212.0	91.75	2.80	12,222.4	3,750.5	-236.7	3,752.5	1.44	1.14	0.89	
16,305.0	92.10	1.37	12,219.2	3,843.4	-233.3	3,845.4	1.58	0.38	-1.54	
16,400.0	88.88	2.10	12,218.4	3,938.4	-230.5	3,940.3	3.48	-3.39	0.77	
16,495.0	88.42	3.03	12,220.7	4,033.2	-226.2	4,035.1	1.09	-0.48	0.98	

Concho Resources LLC

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well TIN FOIL FED COM #705H
Project:	LEA COUNTY, NM	TVD Reference:	KB=26' @ 3205.9usft (N893)
Site:	BULLDOG	MD Reference:	KB=26' @ 3205.9usft (N893)
Well:	TIN FOIL FED COM #705H	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)
16,590.0	85.37	1.64	12,225.8	4,128.0	-222.3	4,129.8	3.53	-3.21	-1.46
16,685.0	85.93	3.10	12,233.0	4,222.7	-218.4	4,224.4	1.64	0.59	1.54
16,779.0	89.34	2.53	12,236.9	4,316.4	-213.8	4,318.2	3.68	3.63	-0.61
16,873.0	90.09	2.14	12,237.4	4,410.4	-210.0	4,412.1	0.90	0.80	-0.41
16,967.0	89.25	4.09	12,237.9	4,504.2	-204.9	4,505.9	2.26	-0.89	2.07
17,062.0	89.89	4.62	12,238.6	4,598.9	-197.7	4,600.5	0.87	0.67	0.56
17,156.0	91.81	5.75	12,237.2	4,692.5	-189.2	4,694.1	2.37	2.04	1.20
17,251.0	84.21	4.85	12,240.5	4,787.0	-180.4	4,788.4	8.06	-8.00	-0.95
17,345.0	87.99	2.91	12,246.9	4,880.6	-174.1	4,881.9	4.52	4.02	-2.06
17,438.0	89.54	2.52	12,248.9	4,973.4	-169.7	4,974.8	1.72	1.67	-0.42
17,533.0	87.36	2.43	12,251.5	5,068.3	-165.6	5,069.6	2.30	-2.29	-0.09
17,627.0	84.88	3.20	12,257.8	5,162.0	-161.0	5,163.2	2.76	-2.64	0.82
17,723.0	84.44	2.24	12,266.8	5,257.4	-156.4	5,258.6	1.10	-0.46	-1.00
17,818.0	89.11	2.07	12,272.1	5,352.2	-152.9	5,353.4	4.92	4.92	-0.18
17,912.0	84.10	1.21	12,277.7	5,446.0	-150.2	5,447.1	5.41	-5.33	-0.91
18,007.0	81.90	1.64	12,289.3	5,540.2	-147.8	5,541.3	2.36	-2.32	0.45
18,102.0	84.30	0.51	12,300.7	5,634.5	-146.1	5,635.6	2.79	2.53	-1.19
18,196.0	90.03	0.08	12,305.3	5,728.3	-145.6	5,729.4	6.11	6.10	-0.46
18,290.0	90.69	359.84	12,304.7	5,822.3	-145.6	5,823.4	0.75	0.70	-0.26
18,386.0	88.02	358.81	12,305.8	5,918.3	-146.8	5,919.4	2.98	-2.78	-1.07
18,480.0	88.07	357.89	12,309.0	6,012.2	-149.5	6,013.3	0.98	0.05	-0.98
18,574.0	87.59	357.24	12,312.6	6,106.1	-153.5	6,107.2	0.86	-0.51	-0.69
18,669.0	87.35	358.29	12,316.8	6,200.9	-157.2	6,202.1	1.13	-0.25	1.11
18,764.0	87.96	0.69	12,320.7	6,295.8	-158.0	6,297.0	2.60	0.64	2.53
18,859.0	88.51	1.75	12,323.6	6,390.7	-156.0	6,391.9	1.26	0.58	1.12
18,952.0	88.45	1.91	12,326.1	6,483.7	-153.0	6,484.8	0.18	-0.06	0.17
19,047.0	88.53	2.10	12,328.6	6,578.6	-149.7	6,579.7	0.22	0.08	0.20
19,142.0	87.70	0.47	12,331.7	6,673.5	-147.6	6,674.6	1.92	-0.87	-1.72
19,238.0	89.37	2.04	12,334.1	6,769.4	-145.5	6,770.5	2.39	1.74	1.64
19,332.0	87.07	358.38	12,337.1	6,863.4	-145.1	6,864.4	4.60	-2.45	-3.89
19,427.0	89.31	2.65	12,340.1	6,958.3	-144.3	6,959.3	5.07	2.36	4.49
19,522.0	88.68	3.63	12,341.7	7,053.1	-139.1	7,054.1	1.23	-0.66	1.03
19,617.0	89.20	3.84	12,343.5	7,147.9	-132.9	7,148.8	0.59	0.55	0.22
19,712.0	88.45	3.02	12,345.4	7,242.7	-127.2	7,243.6	1.17	-0.79	-0.86
19,807.0	89.11	2.85	12,347.5	7,337.6	-122.3	7,338.4	0.72	0.69	-0.18
19,902.0	91.41	3.17	12,347.0	7,432.4	-117.3	7,433.2	2.44	2.42	0.34
19,996.0	89.74	3.03	12,346.1	7,526.3	-112.3	7,527.0	1.78	-1.78	-0.15
20,090.0	91.41	4.27	12,345.1	7,620.1	-106.3	7,620.7	2.21	1.78	1.32
20,185.0	91.50	1.12	12,342.7	7,714.9	-101.8	7,715.5	3.32	0.09	-3.32
20,280.0	90.75	0.13	12,340.9	7,809.9	-100.8	7,810.5	1.31	-0.79	-1.04
20,375.0	91.01	359.31	12,339.4	7,904.9	-101.2	7,905.5	0.91	0.27	-0.86
20,470.0	89.22	358.12	12,339.2	7,999.9	-103.4	8,000.5	2.26	-1.88	-1.25
20,565.0	90.09	357.85	12,339.8	8,094.8	-106.7	8,095.4	0.96	0.92	-0.28

Concho Resources LLC

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well TIN FOIL FED COM #705H
Project:	LEA COUNTY, NM	TVD Reference:	KB=26' @ 3205.9usft (N893)
Site:	BULLDOG	MD Reference:	KB=26' @ 3205.9usft (N893)
Well:	TIN FOIL FED COM #705H	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)
20,660.0	90.37	357.42	12,339.4	8,189.7	-110.6	8,190.4	0.54	0.29	-0.45
20,755.0	89.48	358.93	12,339.5	8,284.7	-113.7	8,285.4	1.85	-0.94	1.59
20,850.0	90.29	358.51	12,339.7	8,379.7	-115.8	8,380.4	0.96	0.85	-0.44
20,944.0	90.95	0.92	12,338.7	8,473.6	-116.2	8,474.3	2.66	0.70	2.56
21,039.0	91.64	0.10	12,336.5	8,568.6	-115.4	8,569.3	1.13	0.73	-0.86
21,135.0	90.32	359.53	12,334.9	8,664.6	-115.7	8,665.3	1.50	-1.38	-0.59
21,230.0	89.77	2.75	12,334.8	8,759.6	-113.8	8,760.2	3.44	-0.58	3.39
21,325.0	88.19	1.62	12,336.5	8,854.5	-110.2	8,855.1	2.04	-1.66	-1.19
21,419.0	90.46	2.10	12,337.6	8,948.4	-107.1	8,949.0	2.47	2.41	0.51
21,514.0	91.64	2.56	12,335.9	9,043.3	-103.3	9,043.9	1.33	1.24	0.48
21,620.0	91.77	2.59	12,332.7	9,149.2	-98.5	9,149.7	0.13	0.12	0.03
21,715.0	92.43	1.72	12,329.3	9,244.0	-95.0	9,244.5	1.15	0.69	-0.92
21,809.0	93.82	1.30	12,324.1	9,337.9	-92.5	9,338.3	1.54	1.48	-0.45
21,905.0	93.21	0.02	12,318.2	9,433.7	-91.4	9,434.1	1.47	-0.64	-1.33
22,000.0	90.68	358.99	12,315.0	9,528.6	-92.2	9,529.0	2.88	-2.66	-1.08
22,096.0	91.74	358.82	12,313.0	9,624.6	-94.0	9,625.0	1.12	1.10	-0.18
22,190.0	92.69	358.43	12,309.4	9,718.5	-96.3	9,718.9	1.09	1.01	-0.41
22,286.0	89.62	358.96	12,307.4	9,814.4	-98.5	9,814.9	3.25	-3.20	0.55
22,381.0	90.25	359.26	12,307.5	9,909.4	-99.9	9,909.9	0.73	0.66	0.32
22,476.0	91.71	359.62	12,305.9	10,004.4	-100.9	10,004.9	1.58	1.54	0.38
22,523.0	91.51	358.87	12,304.6	10,051.3	-101.5	10,051.9	1.65	-0.43	-1.60
22,533.8	91.51	358.87	12,304.3	10,062.1	-101.7	10,062.6	0.00	0.00	0.00
LTP (TIN FOIL FED COM #705H)									
22,582.5	91.51	358.87	12,303.0	10,110.8	-102.7	10,111.3	0.00	0.00	0.00
PBHL (TIN FOIL FED COM #705H)									
22,583.0	91.51	358.87	12,303.0	10,111.3	-102.7	10,111.8	0.00	0.00	0.00

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
11,674.0	11,660.7	-271.6	32.8	First Nabors MWD @ 11674'MD
22,523.0	12,304.6	10,051.3	-101.5	Final Nabors MWD @ 11674'MD
22,532.4	12,304.3	10,060.7	-101.7	LTP @ 22532.4'MD

Checked By: _____ Approved By: _____ Date: _____