

NORTHERN DELAWARE BASIN

LEA COUNTY, NM

BULLDOG

SQUINTS FED COM 7H

OWB

Design: AWP

Standard Survey Report

03 March, 2020

Concho Resources LLC

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well SQUINTS FED COM 7H
Project:	LEA COUNTY, NM	TVD Reference:	KB=30' @ 3434.1usft (SCAN QUEST)
Site:	BULLDOG	MD Reference:	KB=30' @ 3434.1usft (SCAN QUEST)
Well:	SQUINTS FED COM 7H	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	SQUINTS FED COM 7H, ACTIVE			
Well Position	+N/-S	0.0 usft	Northing:	494,293.60 usft
	+E/-W	0.0 usft	Easting:	769,838.60 usft
Position Uncertainty		3.0 usft	Wellhead Elevation:	usft
			Ground Level:	3,404.1 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	2/10/2020	6.62	60.17	47,754.90196938

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	1.33	

Survey Program	Date	3/3/2020			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.0	9,607.0	GYRO (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4	
9,695.0	20,531.0	MWD-CRV/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	0.32	215.22	100.0	-0.2	-0.2	-0.2	0.32	0.32	0.00	
125.0	0.30	221.77	125.0	-0.3	-0.2	-0.3	0.16	-0.08	26.20	
150.0	0.47	211.00	150.0	-0.5	-0.3	-0.5	0.74	0.68	-43.08	
175.0	0.51	211.50	175.0	-0.7	-0.5	-0.7	0.16	0.16	2.00	
200.0	0.35	219.25	200.0	-0.8	-0.6	-0.8	0.68	-0.64	31.00	
225.0	0.36	219.87	225.0	-0.9	-0.7	-0.9	0.04	0.04	2.48	
250.0	0.38	218.90	250.0	-1.1	-0.8	-1.1	0.08	0.08	-3.88	
275.0	0.37	225.16	275.0	-1.2	-0.9	-1.2	0.17	-0.04	25.04	
300.0	0.56	219.90	300.0	-1.3	-1.0	-1.3	0.78	0.76	-21.04	
325.0	0.59	220.53	325.0	-1.5	-1.2	-1.5	0.12	0.12	2.52	
350.0	0.60	221.85	350.0	-1.7	-1.3	-1.7	0.07	0.04	5.28	
375.0	0.65	222.97	375.0	-1.9	-1.5	-1.9	0.21	0.20	4.48	
400.0	0.70	224.69	400.0	-2.1	-1.7	-2.2	0.22	0.20	6.88	
425.0	0.61	229.82	425.0	-2.3	-1.9	-2.4	0.43	-0.36	20.52	

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Well:	SQUINTS FED COM 7H	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)
450.0	0.60	227.98	450.0	-2.5	-2.1	-2.5	0.09	-0.04	-7.36
475.0	0.64	224.80	475.0	-2.7	-2.3	-2.7	0.21	0.16	-12.72
500.0	0.65	229.90	500.0	-2.9	-2.5	-2.9	0.23	0.04	20.40
525.0	0.86	224.72	525.0	-3.1	-2.8	-3.2	0.88	0.84	-20.72
550.0	0.87	227.94	550.0	-3.4	-3.0	-3.4	0.20	0.04	12.88
575.0	1.09	224.34	575.0	-3.7	-3.4	-3.7	0.91	0.88	-14.40
600.0	1.20	224.87	600.0	-4.0	-3.7	-4.1	0.44	0.44	2.12
625.0	1.20	225.82	625.0	-4.4	-4.1	-4.5	0.08	0.00	3.80
650.0	1.26	225.01	650.0	-4.8	-4.5	-4.9	0.25	0.24	-3.24
675.0	1.23	227.04	675.0	-5.1	-4.9	-5.2	0.21	-0.12	8.12
700.0	1.23	226.32	699.9	-5.5	-5.2	-5.6	0.06	0.00	-2.88
725.0	1.29	223.59	724.9	-5.9	-5.6	-6.0	0.34	0.24	-10.92
750.0	1.35	220.92	749.9	-6.3	-6.0	-6.5	0.34	0.24	-10.68
775.0	1.36	220.49	774.9	-6.8	-6.4	-6.9	0.06	0.04	-1.72
800.0	1.37	220.12	799.9	-7.2	-6.8	-7.4	0.05	0.04	-1.48
825.0	1.33	219.29	824.9	-7.7	-7.2	-7.8	0.18	-0.16	-3.32
850.0	1.31	217.14	849.9	-8.1	-7.5	-8.3	0.21	-0.08	-8.60
875.0	1.21	216.72	874.9	-8.6	-7.9	-8.7	0.40	-0.40	-1.68
900.0	1.30	214.68	899.9	-9.0	-8.2	-9.2	0.40	0.36	-8.16
925.0	1.21	212.79	924.9	-9.5	-8.5	-9.7	0.40	-0.36	-7.56
950.0	1.27	207.23	949.9	-9.9	-8.7	-10.1	0.54	0.24	-22.24
975.0	1.26	202.84	974.9	-10.4	-9.0	-10.6	0.39	-0.04	-17.56
1,000.0	1.23	198.23	999.9	-10.9	-9.2	-11.1	0.42	-0.12	-18.44
1,025.0	1.27	198.74	1,024.9	-11.5	-9.3	-11.7	0.17	0.16	2.04
1,050.0	1.33	194.08	1,049.9	-12.0	-9.5	-12.2	0.49	0.24	-18.64
1,075.0	1.34	192.49	1,074.9	-12.6	-9.6	-12.8	0.15	0.04	-6.36
1,100.0	1.24	193.43	1,099.8	-13.1	-9.8	-13.3	0.41	-0.40	3.76
1,125.0	1.34	191.46	1,124.8	-13.7	-9.9	-13.9	0.44	0.40	-7.88
1,150.0	1.33	190.31	1,149.8	-14.2	-10.0	-14.5	0.11	-0.04	-4.60
1,175.0	1.37	189.93	1,174.8	-14.8	-10.1	-15.0	0.16	0.16	-1.52
1,200.0	1.30	190.54	1,199.8	-15.4	-10.2	-15.6	0.29	-0.28	2.44
1,225.0	1.46	190.57	1,224.8	-16.0	-10.3	-16.2	0.64	0.64	0.12
1,250.0	1.36	189.35	1,249.8	-16.6	-10.4	-16.8	0.42	-0.40	-4.88
1,275.0	1.46	188.96	1,274.8	-17.2	-10.5	-17.4	0.40	0.40	-1.56
1,300.0	1.52	186.11	1,299.8	-17.8	-10.6	-18.1	0.38	0.24	-11.40
1,325.0	1.56	182.30	1,324.8	-18.5	-10.6	-18.7	0.44	0.16	-15.24
1,350.0	1.71	181.29	1,349.8	-19.2	-10.7	-19.5	0.61	0.60	-4.04
1,375.0	1.65	180.93	1,374.8	-20.0	-10.7	-20.2	0.24	-0.24	-1.44
1,400.0	1.65	179.96	1,399.7	-20.7	-10.7	-20.9	0.11	0.00	-3.88
1,425.0	1.62	180.47	1,424.7	-21.4	-10.7	-21.6	0.13	-0.12	2.04
1,450.0	1.68	180.59	1,449.7	-22.1	-10.7	-22.3	0.24	0.24	0.48
1,475.0	1.61	179.68	1,474.7	-22.8	-10.7	-23.1	0.30	-0.28	-3.64
1,500.0	1.50	179.04	1,499.7	-23.5	-10.7	-23.7	0.45	-0.44	-2.56

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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)
1,525.0	1.32	178.88	1,524.7	-24.1	-10.7	-24.4	0.72	-0.72	-0.64
1,550.0	1.16	181.28	1,549.7	-24.7	-10.7	-24.9	0.67	-0.64	9.60
1,575.0	1.06	180.05	1,574.7	-25.1	-10.7	-25.4	0.41	-0.40	-4.92
1,600.0	0.95	184.54	1,599.7	-25.6	-10.7	-25.8	0.54	-0.44	17.96
1,625.0	0.83	187.66	1,624.7	-26.0	-10.7	-26.2	0.52	-0.48	12.48
1,650.0	0.92	188.52	1,649.7	-26.3	-10.8	-26.6	0.36	0.36	3.44
1,675.0	0.87	188.75	1,674.7	-26.7	-10.9	-27.0	0.20	-0.20	0.92
1,700.0	0.85	187.51	1,699.7	-27.1	-10.9	-27.3	0.11	-0.08	-4.96
1,725.0	0.93	186.70	1,724.7	-27.5	-11.0	-27.7	0.32	0.32	-3.24
1,750.0	0.87	184.66	1,749.7	-27.9	-11.0	-28.1	0.27	-0.24	-8.16
1,775.0	0.87	185.36	1,774.7	-28.3	-11.0	-28.5	0.04	0.00	2.80
1,800.0	0.87	185.35	1,799.7	-28.6	-11.1	-28.9	0.00	0.00	-0.04
1,825.0	0.97	184.76	1,824.7	-29.0	-11.1	-29.3	0.40	0.40	-2.36
1,850.0	0.89	183.28	1,849.7	-29.4	-11.1	-29.7	0.33	-0.32	-5.92
1,875.0	0.90	184.09	1,874.7	-29.8	-11.2	-30.1	0.06	0.04	3.24
1,900.0	0.88	184.57	1,899.6	-30.2	-11.2	-30.5	0.09	-0.08	1.92
1,925.0	0.95	185.12	1,924.6	-30.6	-11.2	-30.9	0.28	0.28	2.20
1,950.0	0.87	185.62	1,949.6	-31.0	-11.3	-31.3	0.32	-0.32	2.00
1,975.0	0.86	185.70	1,974.6	-31.4	-11.3	-31.6	0.04	-0.04	0.32
2,000.0	0.87	184.71	1,999.6	-31.8	-11.3	-32.0	0.07	0.04	-3.96
2,025.0	0.84	184.13	2,024.6	-32.1	-11.4	-32.4	0.12	-0.12	-2.32
2,050.0	0.76	178.69	2,049.6	-32.5	-11.4	-32.7	0.44	-0.32	-21.76
2,075.0	0.49	170.60	2,074.6	-32.7	-11.3	-33.0	1.13	-1.08	-32.36
2,100.0	0.32	145.80	2,099.6	-32.9	-11.3	-33.2	0.96	-0.68	-99.20
2,125.0	0.27	101.85	2,124.6	-33.0	-11.2	-33.2	0.90	-0.20	-175.80
2,150.0	0.33	69.17	2,149.6	-33.0	-11.1	-33.2	0.71	0.24	-130.72
2,175.0	0.42	49.03	2,174.6	-32.9	-10.9	-33.1	0.63	0.36	-80.56
2,200.0	0.37	55.19	2,199.6	-32.8	-10.8	-33.0	0.26	-0.20	24.64
2,225.0	0.36	54.91	2,224.6	-32.7	-10.7	-32.9	0.04	-0.04	-1.12
2,250.0	0.41	49.62	2,249.6	-32.6	-10.5	-32.8	0.25	0.20	-21.16
2,275.0	0.46	50.35	2,274.6	-32.5	-10.4	-32.7	0.20	0.20	2.92
2,300.0	0.39	56.70	2,299.6	-32.4	-10.2	-32.6	0.34	-0.28	25.40
2,325.0	0.44	62.40	2,324.6	-32.3	-10.1	-32.5	0.26	0.20	22.80
2,350.0	0.47	57.08	2,349.6	-32.2	-9.9	-32.4	0.21	0.12	-21.28
2,375.0	0.65	55.52	2,374.6	-32.0	-9.7	-32.2	0.72	0.72	-6.24
2,400.0	0.74	59.84	2,399.6	-31.9	-9.5	-32.1	0.42	0.36	17.28
2,425.0	0.86	60.62	2,424.6	-31.7	-9.1	-31.9	0.48	0.48	3.12
2,450.0	1.00	57.62	2,449.6	-31.5	-8.8	-31.7	0.59	0.56	-12.00
2,475.0	1.09	58.87	2,474.6	-31.2	-8.4	-31.4	0.37	0.36	5.00
2,500.0	1.19	60.29	2,499.6	-31.0	-8.0	-31.2	0.42	0.40	5.68
2,525.0	1.27	58.09	2,524.6	-30.7	-7.5	-30.9	0.37	0.32	-8.80
2,550.0	1.37	57.22	2,549.6	-30.4	-7.0	-30.6	0.41	0.40	-3.48
2,575.0	1.48	56.01	2,574.6	-30.1	-6.5	-30.2	0.46	0.44	-4.84

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2,600.0	1.48	58.82	2,599.6	-29.7	-6.0	-29.8	0.29	0.00	11.24
2,625.0	1.59	56.08	2,624.6	-29.4	-5.4	-29.5	0.53	0.44	-10.96
2,650.0	1.81	53.58	2,649.6	-28.9	-4.8	-29.0	0.93	0.88	-10.00
2,675.0	1.90	52.83	2,674.5	-28.4	-4.2	-28.5	0.37	0.36	-3.00
2,700.0	1.95	54.02	2,699.5	-27.9	-3.5	-28.0	0.26	0.20	4.76
2,725.0	2.12	51.77	2,724.5	-27.4	-2.8	-27.5	0.75	0.68	-9.00
2,750.0	2.33	50.67	2,749.5	-26.8	-2.0	-26.8	0.86	0.84	-4.40
2,775.0	2.50	49.03	2,774.5	-26.1	-1.2	-26.1	0.73	0.68	-6.56
2,800.0	2.60	50.03	2,799.4	-25.4	-0.4	-25.4	0.44	0.40	4.00
2,825.0	2.73	49.08	2,824.4	-24.6	0.5	-24.6	0.55	0.52	-3.80
2,850.0	2.85	48.97	2,849.4	-23.8	1.4	-23.8	0.48	0.48	-0.44
2,875.0	2.91	48.93	2,874.4	-23.0	2.4	-23.0	0.24	0.24	-0.16
2,900.0	2.89	49.47	2,899.3	-22.2	3.3	-22.1	0.14	-0.08	2.16
2,925.0	2.98	45.67	2,924.3	-21.3	4.3	-21.2	0.86	0.36	-15.20
2,950.0	3.04	41.51	2,949.3	-20.4	5.2	-20.3	0.91	0.24	-16.64
2,975.0	3.10	40.60	2,974.2	-19.4	6.1	-19.2	0.31	0.24	-3.64
3,000.0	3.20	39.70	2,999.2	-18.3	7.0	-18.2	0.45	0.40	-3.60
3,025.0	3.51	41.24	3,024.1	-17.2	7.9	-17.0	1.29	1.24	6.16
3,050.0	3.78	43.85	3,049.1	-16.0	9.0	-15.8	1.27	1.08	10.44
3,075.0	3.95	45.42	3,074.0	-14.8	10.2	-14.6	0.80	0.68	6.28
3,100.0	4.03	45.10	3,099.0	-13.6	11.4	-13.3	0.33	0.32	-1.28
3,125.0	3.86	47.42	3,123.9	-12.4	12.6	-12.1	0.93	-0.68	9.28
3,150.0	3.54	49.58	3,148.9	-11.4	13.8	-11.0	1.40	-1.28	8.64
3,175.0	3.06	52.52	3,173.8	-10.4	15.0	-10.1	2.04	-1.92	11.76
3,200.0	2.69	51.04	3,198.8	-9.7	16.0	-9.3	1.51	-1.48	-5.92
3,225.0	2.17	44.53	3,223.8	-9.0	16.7	-8.6	2.35	-2.08	-26.04
3,250.0	1.86	31.37	3,248.8	-8.3	17.3	-7.9	2.22	-1.24	-52.64
3,275.0	1.80	18.58	3,273.7	-7.6	17.6	-7.2	1.65	-0.24	-51.16
3,300.0	1.80	11.95	3,298.7	-6.8	17.8	-6.4	0.83	0.00	-26.52
3,325.0	1.88	10.86	3,323.7	-6.0	18.0	-5.6	0.35	0.32	-4.36
3,350.0	1.84	11.24	3,348.7	-5.2	18.1	-4.8	0.17	-0.16	1.52
3,375.0	1.89	13.65	3,373.7	-4.4	18.3	-4.0	0.37	0.20	9.64
3,400.0	1.96	15.33	3,398.7	-3.6	18.5	-3.2	0.36	0.28	6.72
3,425.0	2.06	15.78	3,423.7	-2.8	18.8	-2.3	0.40	0.40	1.80
3,450.0	2.07	15.55	3,448.6	-1.9	19.0	-1.5	0.05	0.04	-0.92
3,475.0	1.97	15.80	3,473.6	-1.1	19.2	-0.6	0.40	-0.40	1.00
3,500.0	2.08	6.43	3,498.6	-0.2	19.4	0.3	1.39	0.44	-37.48
3,525.0	2.25	358.61	3,523.6	0.7	19.4	1.2	1.36	0.68	-31.28
3,550.0	2.42	351.96	3,548.6	1.8	19.4	2.2	1.28	0.68	-26.60
3,575.0	2.55	350.11	3,573.6	2.8	19.2	3.3	0.61	0.52	-7.40
3,600.0	2.58	341.90	3,598.5	3.9	18.9	4.4	1.47	0.12	-32.84
3,625.0	2.60	346.42	3,623.5	5.0	18.6	5.4	0.82	0.08	18.08
3,650.0	2.63	352.07	3,648.5	6.1	18.4	6.5	1.04	0.12	22.60
3,675.0	2.63	351.21	3,673.4	7.3	18.2	7.7	0.16	0.00	-3.44

Concho Resources LLC

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well SQUINTS FED COM 7H
Project:	LEA COUNTY, NM	TVD Reference:	KB=30' @ 3434.1usft (SCAN QUEST)
Site:	BULLDOG	MD Reference:	KB=30' @ 3434.1usft (SCAN QUEST)
Well:	SQUINTS FED COM 7H	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	2.59	351.98	3,698.4	8.4	18.1	8.8	0.21	-0.16	3.08
3,725.0	2.63	353.14	3,723.4	9.5	17.9	9.9	0.27	0.16	4.64
3,750.0	2.65	352.83	3,748.4	10.7	17.8	11.1	0.10	0.08	-1.24
3,775.0	2.58	354.46	3,773.3	11.8	17.7	12.2	0.41	-0.28	6.52
3,800.0	2.36	352.18	3,798.3	12.9	17.5	13.3	0.96	-0.88	-9.12
3,825.0	1.79	353.75	3,823.3	13.8	17.4	14.2	2.29	-2.28	6.28
3,850.0	1.58	356.09	3,848.3	14.5	17.4	14.9	0.88	-0.84	9.36
3,875.0	1.40	352.74	3,873.3	15.1	17.3	15.5	0.80	-0.72	-13.40
3,900.0	1.06	345.14	3,898.3	15.7	17.2	16.1	1.51	-1.36	-30.40
3,925.0	0.42	314.82	3,923.3	15.9	17.1	16.3	2.92	-2.56	-121.28
3,950.0	0.29	255.19	3,948.3	16.0	16.9	16.4	1.48	-0.52	-238.52
3,975.0	0.29	242.35	3,973.3	16.0	16.8	16.3	0.26	0.00	-51.36
4,000.0	0.36	245.13	3,998.3	15.9	16.7	16.3	0.29	0.28	11.12
4,025.0	0.29	237.73	4,023.3	15.8	16.6	16.2	0.33	-0.28	-29.60
4,050.0	0.39	244.71	4,048.3	15.8	16.4	16.1	0.43	0.40	27.92
4,075.0	0.29	239.09	4,073.3	15.7	16.3	16.1	0.42	-0.40	-22.48
4,100.0	0.22	238.26	4,098.3	15.6	16.2	16.0	0.28	-0.28	-3.32
4,125.0	0.29	243.12	4,123.3	15.6	16.1	15.9	0.29	0.28	19.44
4,150.0	0.23	232.78	4,148.3	15.5	16.0	15.9	0.30	-0.24	-41.36
4,175.0	0.14	221.33	4,173.3	15.5	16.0	15.8	0.39	-0.36	-45.80
4,200.0	0.20	235.93	4,198.3	15.4	15.9	15.8	0.29	0.24	58.40
4,225.0	0.21	251.86	4,223.3	15.4	15.8	15.7	0.23	0.04	63.72
4,250.0	0.11	227.26	4,248.3	15.3	15.8	15.7	0.48	-0.40	-98.40
4,275.0	0.25	249.48	4,273.3	15.3	15.7	15.7	0.62	0.56	88.88
4,300.0	0.21	244.55	4,298.3	15.3	15.6	15.6	0.18	-0.16	-19.72
4,325.0	0.18	230.16	4,323.3	15.2	15.5	15.6	0.23	-0.12	-57.56
4,350.0	0.26	224.34	4,348.3	15.2	15.5	15.5	0.33	0.32	-23.28
4,375.0	0.21	183.98	4,373.3	15.1	15.4	15.4	0.68	-0.20	-161.44
4,400.0	0.29	188.57	4,398.3	15.0	15.4	15.3	0.33	0.32	18.36
4,425.0	0.56	204.27	4,423.3	14.8	15.3	15.1	1.17	1.08	62.80
4,450.0	0.60	201.50	4,448.3	14.6	15.2	14.9	0.20	0.16	-11.08
4,475.0	0.62	200.92	4,473.3	14.3	15.2	14.7	0.08	0.08	-2.32
4,500.0	0.71	197.97	4,498.3	14.0	15.1	14.4	0.39	0.36	-11.80
4,525.0	0.69	191.80	4,523.3	13.7	15.0	14.1	0.31	-0.08	-24.68
4,550.0	0.74	192.46	4,548.3	13.4	14.9	13.8	0.20	0.20	2.64
4,575.0	0.86	185.43	4,573.3	13.1	14.9	13.4	0.62	0.48	-28.12
4,600.0	0.96	180.00	4,598.3	12.7	14.8	13.0	0.53	0.40	-21.72
4,625.0	0.98	165.52	4,623.3	12.3	14.9	12.6	0.98	0.08	-57.92
4,650.0	1.04	150.91	4,648.2	11.9	15.1	12.2	1.05	0.24	-58.44
4,675.0	1.17	141.20	4,673.2	11.5	15.3	11.8	0.91	0.52	-38.84
4,700.0	1.17	140.55	4,698.2	11.1	15.7	11.4	0.05	0.00	-2.60
4,725.0	1.17	141.79	4,723.2	10.7	16.0	11.0	0.10	0.00	4.96
4,750.0	1.13	141.30	4,748.2	10.3	16.3	10.7	0.16	-0.16	-1.96

Concho Resources LLC

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well SQUINTS FED COM 7H
Project:	LEA COUNTY, NM	TVD Reference:	KB=30' @ 3434.1usft (SCAN QUEST)
Site:	BULLDOG	MD Reference:	KB=30' @ 3434.1usft (SCAN QUEST)
Well:	SQUINTS FED COM 7H	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	0.99	143.13	4,773.2	9.9	16.6	10.3	0.58	-0.56	7.32
4,800.0	0.84	139.74	4,798.2	9.6	16.8	10.0	0.64	-0.60	-13.56
4,825.0	0.85	141.11	4,823.2	9.3	17.1	9.7	0.09	0.04	5.48
4,850.0	0.74	133.44	4,848.2	9.1	17.3	9.5	0.61	-0.44	-30.68
4,875.0	0.68	124.51	4,873.2	8.9	17.5	9.3	0.50	-0.24	-35.72
4,900.0	0.73	118.00	4,898.2	8.7	17.8	9.1	0.38	0.20	-26.04
4,925.0	0.81	114.98	4,923.2	8.6	18.1	9.0	0.36	0.32	-12.08
4,950.0	0.73	118.12	4,948.2	8.4	18.4	8.8	0.36	-0.32	12.56
4,975.0	0.68	122.33	4,973.2	8.3	18.7	8.7	0.29	-0.20	16.84
5,000.0	0.68	124.24	4,998.2	8.1	18.9	8.5	0.09	0.00	7.64
5,025.0	0.84	124.47	5,023.2	7.9	19.2	8.4	0.64	0.64	0.92
5,050.0	0.83	122.04	5,048.2	7.7	19.5	8.2	0.15	-0.04	-9.72
5,075.0	0.87	117.13	5,073.2	7.5	19.8	8.0	0.33	0.16	-19.64
5,100.0	0.84	121.78	5,098.2	7.3	20.1	7.8	0.30	-0.12	18.60
5,125.0	0.80	124.18	5,123.2	7.2	20.4	7.6	0.21	-0.16	9.60
5,150.0	0.92	118.57	5,148.2	7.0	20.7	7.4	0.59	0.48	-22.44
5,175.0	0.93	120.14	5,173.2	6.8	21.1	7.3	0.11	0.04	6.28
5,200.0	0.98	115.07	5,198.2	6.6	21.5	7.1	0.39	0.20	-20.28
5,225.0	0.99	118.54	5,223.2	6.4	21.9	6.9	0.24	0.04	13.88
5,250.0	1.00	121.13	5,248.2	6.2	22.2	6.7	0.18	0.04	10.36
5,275.0	1.01	120.20	5,273.2	5.9	22.6	6.5	0.08	0.04	-3.72
5,300.0	1.00	116.81	5,298.2	5.7	23.0	6.3	0.24	-0.04	-13.56
5,325.0	0.98	118.21	5,323.2	5.5	23.4	6.1	0.13	-0.08	5.60
5,350.0	1.05	120.99	5,348.2	5.3	23.8	5.9	0.34	0.28	11.12
5,375.0	1.04	130.97	5,373.2	5.0	24.1	5.6	0.73	-0.04	39.92
5,400.0	1.03	134.70	5,398.2	4.7	24.5	5.3	0.27	-0.04	14.92
5,425.0	1.09	134.58	5,423.1	4.4	24.8	5.0	0.24	0.24	-0.48
5,450.0	1.08	137.81	5,448.1	4.1	25.1	4.7	0.25	-0.04	12.92
5,475.0	1.12	138.30	5,473.1	3.7	25.4	4.3	0.16	0.16	1.96
5,500.0	1.08	144.65	5,498.1	3.3	25.7	3.9	0.51	-0.16	25.40
5,525.0	1.12	150.05	5,523.1	2.9	26.0	3.5	0.44	0.16	21.60
5,550.0	1.12	144.68	5,548.1	2.5	26.3	3.1	0.42	0.00	-21.48
5,575.0	1.49	165.75	5,573.1	2.0	26.5	2.6	2.40	1.48	84.28
5,600.0	2.44	182.49	5,598.1	1.2	26.5	1.8	4.40	3.80	66.96
5,625.0	2.62	167.13	5,623.1	0.1	26.6	0.7	2.80	0.72	-61.44
5,650.0	3.01	185.57	5,648.0	-1.1	26.7	-0.5	3.92	1.56	73.76
5,675.0	2.70	185.76	5,673.0	-2.4	26.6	-1.8	1.24	-1.24	0.76
5,700.0	2.75	185.24	5,698.0	-3.6	26.5	-2.9	0.22	0.20	-2.08
5,725.0	2.78	185.62	5,723.0	-4.8	26.4	-4.1	0.14	0.12	1.52
5,750.0	2.66	185.03	5,747.9	-5.9	26.2	-5.3	0.49	-0.48	-2.36
5,775.0	2.62	185.13	5,772.9	-7.1	26.1	-6.5	0.16	-0.16	0.40
5,800.0	2.65	184.99	5,797.9	-8.2	26.0	-7.6	0.12	0.12	-0.56
5,825.0	2.67	184.58	5,822.9	-9.4	25.9	-8.8	0.11	0.08	-1.64

Concho Resources LLC

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well SQUINTS FED COM 7H
Project:	LEA COUNTY, NM	TVD Reference:	KB=30' @ 3434.1usft (SCAN QUEST)
Site:	BULLDOG	MD Reference:	KB=30' @ 3434.1usft (SCAN QUEST)
Well:	SQUINTS FED COM 7H	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	3.03	176.47	5,847.8	-10.6	25.9	-10.0	2.16	1.44	-32.44
5,875.0	4.12	165.69	5,872.8	-12.2	26.2	-11.5	5.10	4.36	-43.12
5,900.0	4.29	164.31	5,897.7	-13.9	26.7	-13.3	0.79	0.68	-5.52
5,925.0	4.31	163.65	5,922.6	-15.7	27.2	-15.1	0.21	0.08	-2.64
5,950.0	4.35	158.37	5,947.6	-17.5	27.8	-16.9	1.60	0.16	-21.12
5,975.0	4.37	150.82	5,972.5	-19.2	28.6	-18.6	2.30	0.08	-30.20
6,000.0	4.32	148.94	5,997.4	-20.9	29.6	-20.2	0.60	-0.20	-7.52
6,025.0	4.27	147.69	6,022.3	-22.5	30.6	-21.7	0.42	-0.20	-5.00
6,050.0	4.23	134.93	6,047.3	-23.9	31.7	-23.2	3.78	-0.16	-51.04
6,075.0	4.27	127.41	6,072.2	-25.1	33.1	-24.3	2.23	0.16	-30.08
6,100.0	4.28	125.47	6,097.1	-26.2	34.6	-25.4	0.58	0.04	-7.76
6,125.0	4.30	126.20	6,122.1	-27.3	36.1	-26.5	0.23	0.08	2.92
6,150.0	4.25	124.96	6,147.0	-28.4	37.6	-27.5	0.42	-0.20	-4.96
6,175.0	4.24	124.74	6,171.9	-29.5	39.1	-28.5	0.08	-0.04	-0.88
6,200.0	4.21	125.55	6,196.9	-30.5	40.6	-29.6	0.27	-0.12	3.24
6,225.0	4.23	125.17	6,221.8	-31.6	42.1	-30.6	0.14	0.08	-1.52
6,250.0	4.24	124.47	6,246.7	-32.6	43.7	-31.6	0.21	0.04	-2.80
6,275.0	4.24	123.56	6,271.7	-33.7	45.2	-32.6	0.27	0.00	-3.64
6,300.0	4.30	124.03	6,296.6	-34.7	46.7	-33.6	0.28	0.24	1.88
6,325.0	4.28	122.22	6,321.5	-35.7	48.3	-34.6	0.55	-0.08	-7.24
6,350.0	4.26	121.68	6,346.5	-36.7	49.9	-35.5	0.18	-0.08	-2.16
6,375.0	4.22	120.66	6,371.4	-37.7	51.5	-36.5	0.34	-0.16	-4.08
6,400.0	4.14	119.38	6,396.3	-38.6	53.0	-37.3	0.49	-0.32	-5.12
6,425.0	4.09	118.72	6,421.3	-39.5	54.6	-38.2	0.28	-0.20	-2.64
6,450.0	4.04	118.09	6,446.2	-40.3	56.2	-39.0	0.27	-0.20	-2.52
6,475.0	3.94	116.30	6,471.1	-41.1	57.7	-39.7	0.64	-0.40	-7.16
6,500.0	3.87	116.90	6,496.1	-41.9	59.2	-40.5	0.32	-0.28	2.40
6,525.0	3.78	116.92	6,521.0	-42.6	60.7	-41.2	0.36	-0.36	0.08
6,550.0	3.66	116.61	6,546.0	-43.3	62.2	-41.9	0.49	-0.48	-1.24
6,575.0	3.57	115.58	6,570.9	-44.0	63.6	-42.5	0.44	-0.36	-4.12
6,600.0	3.46	113.30	6,595.9	-44.7	65.0	-43.1	0.71	-0.44	-9.12
6,625.0	3.48	115.32	6,620.8	-45.3	66.4	-43.7	0.50	0.08	8.08
6,650.0	3.50	114.86	6,645.8	-45.9	67.7	-44.3	0.14	0.08	-1.84
6,675.0	3.51	113.76	6,670.7	-46.6	69.1	-44.9	0.27	0.04	-4.40
6,700.0	3.85	116.78	6,695.7	-47.2	70.6	-45.6	1.57	1.36	12.08
6,725.0	4.58	119.95	6,720.6	-48.1	72.2	-46.4	3.06	2.92	12.68
6,750.0	4.80	121.00	6,745.5	-49.2	74.0	-47.4	0.94	0.88	4.20
6,775.0	4.84	121.20	6,770.4	-50.2	75.8	-48.5	0.17	0.16	0.80
6,800.0	4.81	120.10	6,795.3	-51.3	77.6	-49.5	0.39	-0.12	-4.40
6,825.0	4.75	120.23	6,820.3	-52.4	79.4	-50.5	0.24	-0.24	0.52
6,850.0	4.74	119.96	6,845.2	-53.4	81.2	-51.5	0.10	-0.04	-1.08
6,875.0	4.71	119.34	6,870.1	-54.4	83.0	-52.5	0.24	-0.12	-2.48
6,900.0	4.61	119.44	6,895.0	-55.4	84.7	-53.4	0.40	-0.40	0.40
6,925.0	4.53	120.24	6,919.9	-56.4	86.4	-54.4	0.41	-0.32	3.20

Concho Resources LLC

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well SQUINTS FED COM 7H
Project:	LEA COUNTY, NM	TVD Reference:	KB=30' @ 3434.1usft (SCAN QUEST)
Site:	BULLDOG	MD Reference:	KB=30' @ 3434.1usft (SCAN QUEST)
Well:	SQUINTS FED COM 7H	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	4.53	118.70	6,944.9	-57.4	88.2	-55.3	0.49	0.00	-6.16
6,975.0	4.45	120.69	6,969.8	-58.3	89.9	-56.2	0.70	-0.32	7.96
7,000.0	4.33	121.75	6,994.7	-59.3	91.5	-57.2	0.58	-0.48	4.24
7,025.0	4.29	120.19	7,019.6	-60.3	93.1	-58.1	0.50	-0.16	-6.24
7,050.0	4.23	120.97	7,044.6	-61.3	94.7	-59.0	0.33	-0.24	3.12
7,075.0	4.20	120.07	7,069.5	-62.2	96.3	-59.9	0.29	-0.12	-3.60
7,100.0	4.20	119.77	7,094.4	-63.1	97.9	-60.8	0.09	0.00	-1.20
7,125.0	4.16	118.88	7,119.4	-64.0	99.5	-61.7	0.30	-0.16	-3.56
7,150.0	4.02	118.31	7,144.3	-64.8	101.0	-62.5	0.58	-0.56	-2.28
7,175.0	3.93	117.94	7,169.2	-65.7	102.6	-63.3	0.37	-0.36	-1.48
7,200.0	3.80	116.54	7,194.2	-66.4	104.1	-64.0	0.64	-0.52	-5.60
7,225.0	3.66	116.55	7,219.1	-67.2	105.5	-64.7	0.56	-0.56	0.04
7,250.0	3.54	116.50	7,244.1	-67.9	106.9	-65.4	0.48	-0.48	-0.20
7,275.0	3.31	116.18	7,269.0	-68.5	108.3	-66.0	0.92	-0.92	-1.28
7,300.0	3.16	116.94	7,294.0	-69.2	109.5	-66.6	0.62	-0.60	3.04
7,325.0	3.10	116.62	7,319.0	-69.8	110.7	-67.2	0.25	-0.24	-1.28
7,350.0	3.10	116.31	7,343.9	-70.4	112.0	-67.8	0.07	0.00	-1.24
7,375.0	3.29	120.90	7,368.9	-71.0	113.2	-68.4	1.27	0.76	18.36
7,400.0	3.36	121.94	7,393.8	-71.8	114.4	-69.1	0.37	0.28	4.16
7,425.0	3.39	122.90	7,418.8	-72.6	115.7	-69.9	0.26	0.12	3.84
7,450.0	3.42	122.30	7,443.8	-73.4	116.9	-70.7	0.19	0.12	-2.40
7,475.0	3.40	123.18	7,468.7	-74.2	118.2	-71.4	0.22	-0.08	3.52
7,500.0	3.36	123.76	7,493.7	-75.0	119.4	-72.2	0.21	-0.16	2.32
7,525.0	3.34	123.13	7,518.6	-75.8	120.6	-73.0	0.17	-0.08	-2.52
7,550.0	3.45	123.28	7,543.6	-76.6	121.8	-73.8	0.44	0.44	0.60
7,575.0	3.45	122.76	7,568.5	-77.4	123.1	-74.6	0.13	0.00	-2.08
7,600.0	3.47	122.51	7,593.5	-78.3	124.4	-75.3	0.10	0.08	-1.00
7,625.0	3.46	121.41	7,618.4	-79.1	125.7	-76.1	0.27	-0.04	-4.40
7,650.0	3.89	124.88	7,643.4	-79.9	127.0	-77.0	1.94	1.72	13.88
7,675.0	4.32	125.91	7,668.3	-81.0	128.5	-78.0	1.75	1.72	4.12
7,700.0	4.29	126.42	7,693.3	-82.1	130.0	-79.0	0.19	-0.12	2.04
7,725.0	4.16	125.76	7,718.2	-83.2	131.5	-80.1	0.56	-0.52	-2.64
7,750.0	4.03	125.04	7,743.1	-84.2	132.9	-81.1	0.56	-0.52	-2.88
7,775.0	4.04	125.27	7,768.1	-85.2	134.4	-82.1	0.08	0.04	0.92
7,800.0	3.94	125.04	7,793.0	-86.2	135.8	-83.0	0.41	-0.40	-0.92
7,825.0	3.71	123.95	7,817.9	-87.2	137.1	-83.9	0.96	-0.92	-4.36
7,850.0	3.62	124.16	7,842.9	-88.0	138.5	-84.8	0.36	-0.36	0.84
7,875.0	3.40	121.70	7,867.8	-88.9	139.8	-85.6	1.07	-0.88	-9.84
7,900.0	3.35	120.96	7,892.8	-89.6	141.0	-86.4	0.27	-0.20	-2.96
7,925.0	3.38	119.07	7,917.8	-90.4	142.3	-87.1	0.46	0.12	-7.56
7,950.0	3.80	114.47	7,942.7	-91.1	143.7	-87.7	2.04	1.68	-18.40
7,975.0	4.00	113.31	7,967.7	-91.8	145.2	-88.4	0.86	0.80	-4.64
8,000.0	3.90	112.83	7,992.6	-92.4	146.8	-89.0	0.42	-0.40	-1.92

Concho Resources LLC

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well SQUINTS FED COM 7H
Project:	LEA COUNTY, NM	TVD Reference:	KB=30' @ 3434.1usft (SCAN QUEST)
Site:	BULLDOG	MD Reference:	KB=30' @ 3434.1usft (SCAN QUEST)
Well:	SQUINTS FED COM 7H	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	3.79	112.26	8,017.5	-93.1	148.4	-89.6	0.47	-0.44	-2.28
8,050.0	3.67	113.58	8,042.5	-93.7	149.9	-90.2	0.59	-0.48	5.28
8,075.0	3.65	113.68	8,067.4	-94.4	151.3	-90.8	0.08	-0.08	0.40
8,100.0	3.59	112.86	8,092.4	-95.0	152.8	-91.4	0.32	-0.24	-3.28
8,125.0	3.58	111.41	8,117.3	-95.6	154.2	-92.0	0.36	-0.04	-5.80
8,150.0	3.38	111.75	8,142.3	-96.1	155.6	-92.5	0.80	-0.80	1.36
8,175.0	3.19	111.11	8,167.2	-96.7	157.0	-93.0	0.77	-0.76	-2.56
8,200.0	3.05	107.57	8,192.2	-97.1	158.3	-93.4	0.95	-0.56	-14.16
8,225.0	2.98	108.89	8,217.2	-97.5	159.5	-93.8	0.39	-0.28	5.28
8,250.0	2.99	109.80	8,242.1	-97.9	160.7	-94.2	0.19	0.04	3.64
8,275.0	2.99	109.02	8,267.1	-98.4	162.0	-94.6	0.16	0.00	-3.12
8,300.0	3.01	109.44	8,292.1	-98.8	163.2	-95.0	0.12	0.08	1.68
8,325.0	3.45	110.13	8,317.0	-99.3	164.5	-95.4	1.77	1.76	2.76
8,350.0	4.78	115.88	8,342.0	-100.0	166.2	-96.1	5.56	5.32	23.00
8,375.0	5.44	118.34	8,366.9	-101.0	168.1	-97.1	2.78	2.64	9.84
8,400.0	5.46	117.92	8,391.8	-102.1	170.2	-98.2	0.18	0.08	-1.68
8,425.0	5.22	118.75	8,416.6	-103.2	172.3	-99.2	1.01	-0.96	3.32
8,450.0	4.83	118.82	8,441.6	-104.3	174.2	-100.2	1.56	-1.56	0.28
8,475.0	4.47	117.14	8,466.5	-105.3	176.0	-101.1	1.54	-1.44	-6.72
8,500.0	4.12	116.92	8,491.4	-106.1	177.7	-102.0	1.40	-1.40	-0.88
8,525.0	3.82	116.96	8,516.3	-106.9	179.2	-102.7	1.20	-1.20	0.16
8,550.0	3.56	118.68	8,541.3	-107.6	180.6	-103.4	1.13	-1.04	6.88
8,575.0	3.34	120.95	8,566.2	-108.4	181.9	-104.1	1.04	-0.88	9.08
8,600.0	3.21	128.83	8,591.2	-109.2	183.1	-104.9	1.87	-0.52	31.52
8,625.0	3.21	135.34	8,616.2	-110.1	184.1	-105.8	1.46	0.00	26.04
8,650.0	3.10	135.51	8,641.1	-111.1	185.1	-106.8	0.44	-0.44	0.68
8,675.0	2.98	132.55	8,666.1	-112.0	186.1	-107.7	0.79	-0.48	-11.84
8,700.0	3.15	131.23	8,691.1	-112.9	187.1	-108.6	0.74	0.68	-5.28
8,725.0	3.73	125.44	8,716.0	-113.9	188.2	-109.5	2.70	2.32	-23.16
8,750.0	3.97	124.84	8,741.0	-114.8	189.6	-110.4	0.97	0.96	-2.40
8,775.0	4.00	125.26	8,765.9	-115.8	191.0	-111.4	0.17	0.12	1.68
8,800.0	3.90	128.00	8,790.8	-116.8	192.4	-112.3	0.85	-0.40	10.96
8,825.0	3.85	129.68	8,815.8	-117.9	193.7	-113.4	0.50	-0.20	6.72
8,850.0	3.87	130.91	8,840.7	-119.0	195.0	-114.4	0.34	0.08	4.92
8,875.0	3.88	131.18	8,865.7	-120.1	196.3	-115.5	0.08	0.04	1.08
8,900.0	3.86	131.25	8,890.6	-121.2	197.6	-116.6	0.08	-0.08	0.28
8,925.0	3.75	127.95	8,915.5	-122.3	198.8	-117.6	0.98	-0.44	-13.20
8,950.0	3.49	131.11	8,940.5	-123.3	200.1	-118.6	1.31	-1.04	12.64
8,975.0	3.06	133.84	8,965.5	-124.2	201.1	-119.5	1.83	-1.72	10.92
9,000.0	2.52	141.92	8,990.4	-125.1	201.9	-120.4	2.67	-2.16	32.32
9,025.0	2.21	146.06	9,015.4	-126.0	202.5	-121.2	1.42	-1.24	16.56
9,050.0	2.15	146.22	9,040.4	-126.8	203.1	-122.0	0.24	-0.24	0.64
9,075.0	2.18	133.20	9,065.4	-127.5	203.7	-122.7	1.97	0.12	-52.08

Concho Resources LLC

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well SQUINTS FED COM 7H
Project:	LEA COUNTY, NM	TVD Reference:	KB=30' @ 3434.1usft (SCAN QUEST)
Site:	BULLDOG	MD Reference:	KB=30' @ 3434.1usft (SCAN QUEST)
Well:	SQUINTS FED COM 7H	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	2.29	124.73	9,090.4	-128.1	204.4	-123.3	1.39	0.44	-33.88
9,125.0	2.45	122.50	9,115.3	-128.6	205.3	-123.8	0.74	0.64	-8.92
9,150.0	2.70	122.96	9,140.3	-129.3	206.2	-124.4	1.00	1.00	1.84
9,175.0	4.05	119.18	9,165.3	-130.0	207.5	-125.2	5.47	5.40	-15.12
9,200.0	4.35	117.17	9,190.2	-130.9	209.1	-126.0	1.34	1.20	-8.04
9,225.0	4.17	122.27	9,215.1	-131.8	210.7	-126.9	1.68	-0.72	20.40
9,250.0	3.54	121.77	9,240.1	-132.7	212.2	-127.7	2.52	-2.52	-2.00
9,275.0	3.18	123.76	9,265.0	-133.5	213.4	-128.5	1.51	-1.44	7.96
9,300.0	2.72	121.31	9,290.0	-134.2	214.5	-129.2	1.91	-1.84	-9.80
9,325.0	2.61	123.12	9,315.0	-134.8	215.5	-129.7	0.55	-0.44	7.24
9,350.0	2.39	116.25	9,339.9	-135.3	216.4	-130.3	1.49	-0.88	-27.48
9,375.0	2.33	116.27	9,364.9	-135.8	217.3	-130.7	0.24	-0.24	0.08
9,400.0	2.13	114.91	9,389.9	-136.2	218.2	-131.1	0.83	-0.80	-5.44
9,425.0	1.82	110.16	9,414.9	-136.5	219.0	-131.4	1.40	-1.24	-19.00
9,450.0	1.78	107.52	9,439.9	-136.8	219.7	-131.7	0.37	-0.16	-10.56
9,475.0	1.57	106.63	9,464.9	-137.0	220.4	-131.9	0.85	-0.84	-3.56
9,500.0	1.13	112.91	9,489.9	-137.2	221.0	-132.0	1.85	-1.76	25.12
9,525.0	0.54	112.92	9,514.9	-137.3	221.3	-132.2	2.36	-2.36	0.04
9,550.0	0.18	2.34	9,539.9	-137.3	221.4	-132.2	2.51	-1.44	-442.32
9,575.0	0.48	249.93	9,564.9	-137.3	221.3	-132.2	2.29	1.20	-449.64
9,600.0	0.94	259.31	9,589.9	-137.4	221.0	-132.3	1.89	1.84	37.52
9,607.0	1.07	255.33	9,596.8	-137.4	220.9	-132.3	2.11	1.86	-56.86
9,695.0	1.27	259.88	9,684.8	-137.8	219.2	-132.7	0.25	0.23	5.17
9,758.0	3.57	333.10	9,747.8	-136.2	217.6	-131.1	5.44	3.65	116.22
9,790.0	9.73	344.70	9,779.6	-132.7	216.4	-127.6	19.61	19.25	36.25
9,822.0	14.81	356.44	9,810.8	-126.0	215.5	-121.0	17.61	15.88	36.69
9,851.1	16.27	358.21	9,838.9	-118.2	215.1	-113.2	5.29	5.03	6.07
FTP @ 9851.1'MD / 9838.9'TVD									
9,853.0	16.37	358.31	9,840.7	-117.7	215.1	-112.7	5.29	5.06	5.50
9,885.0	17.06	353.12	9,871.3	-108.5	214.4	-103.5	5.14	2.16	-16.22
9,917.0	21.84	353.33	9,901.5	-97.9	213.1	-93.0	14.94	14.94	0.66
9,948.0	23.19	349.00	9,930.1	-86.2	211.3	-81.3	6.89	4.35	-13.97
9,980.0	23.09	345.77	9,959.6	-73.9	208.5	-69.1	3.98	-0.31	-10.09
10,012.0	28.65	347.43	9,988.3	-60.4	205.3	-55.6	17.52	17.38	5.19
10,043.0	30.64	347.63	10,015.3	-45.4	202.0	-40.7	6.43	6.42	0.65
10,075.0	31.96	347.21	10,042.6	-29.2	198.4	-24.6	4.18	4.13	-1.31
10,107.0	38.72	355.01	10,068.7	-10.9	195.7	-6.4	25.36	21.13	24.38
10,138.0	37.36	352.67	10,093.1	8.1	193.6	12.6	6.39	-4.39	-7.55
10,170.0	38.05	354.77	10,118.5	27.5	191.5	32.0	4.56	2.16	6.56
10,202.0	37.24	354.48	10,143.8	47.0	189.6	51.4	2.59	-2.53	-0.91
10,233.0	39.51	355.34	10,168.1	66.2	187.9	70.5	7.52	7.32	2.77
10,265.0	40.64	356.77	10,192.6	86.7	186.5	91.0	4.55	3.53	4.47
10,297.0	43.27	357.98	10,216.4	108.1	185.5	112.4	8.60	8.22	3.78
10,328.0	46.00	359.43	10,238.4	129.9	185.1	134.1	9.40	8.81	4.68

Concho Resources LLC

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well SQUINTS FED COM 7H
Project:	LEA COUNTY, NM	TVD Reference:	KB=30' @ 3434.1usft (SCAN QUEST)
Site:	BULLDOG	MD Reference:	KB=30' @ 3434.1usft (SCAN QUEST)
Well:	SQUINTS FED COM 7H	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)	
10,360.0	51.53	2.13	10,259.5	153.9	185.4	158.2	18.41	17.28	8.44	
10,391.0	57.71	5.40	10,277.5	179.1	187.1	183.4	21.71	19.94	10.55	
10,423.0	59.80	6.96	10,294.1	206.3	190.0	210.7	7.75	6.53	4.88	
10,455.0	61.80	3.96	10,309.7	234.1	192.7	238.5	10.30	6.25	-9.38	
10,486.0	68.12	3.59	10,322.8	262.1	194.5	266.6	20.42	20.39	-1.19	
10,518.0	70.29	4.39	10,334.2	292.0	196.6	296.4	7.17	6.78	2.50	
10,550.0	70.17	4.35	10,345.0	322.0	198.9	326.5	0.39	-0.38	-0.13	
10,582.0	76.04	5.33	10,354.3	352.5	201.5	357.1	18.58	18.34	3.06	
10,613.0	78.17	5.71	10,361.2	382.5	204.4	387.2	6.97	6.87	1.23	
10,645.0	85.26	6.04	10,365.8	414.0	207.7	418.7	22.18	22.16	1.03	
10,683.0	85.38	6.21	10,368.9	451.7	211.7	456.5	0.55	0.32	0.45	
10,778.0	87.95	6.19	10,374.4	546.0	221.9	551.0	2.71	2.71	-0.02	
10,873.0	87.77	4.93	10,378.0	640.4	231.1	645.6	1.34	-0.19	-1.33	
10,967.0	89.80	3.24	10,380.0	734.2	237.8	739.5	2.81	2.16	-1.80	
11,062.0	89.13	1.65	10,380.9	829.1	241.9	834.5	1.82	-0.71	-1.67	
11,157.0	91.35	1.80	10,380.5	924.0	244.7	929.5	2.34	2.34	0.16	
11,252.0	90.60	4.33	10,378.8	1,018.9	249.8	1,024.4	2.78	-0.79	2.66	
11,347.0	90.16	6.36	10,378.2	1,113.5	258.7	1,119.2	2.19	-0.46	2.14	
11,442.0	89.99	4.80	10,378.1	1,208.0	267.9	1,213.9	1.65	-0.18	-1.64	
11,537.0	87.67	1.63	10,380.0	1,302.8	273.2	1,308.8	4.13	-2.44	-3.34	
11,631.0	87.92	358.35	10,383.6	1,396.7	273.2	1,402.7	3.50	0.27	-3.49	
11,726.0	90.73	358.38	10,384.8	1,491.7	270.5	1,497.6	2.96	2.96	0.03	
11,820.0	90.37	356.72	10,383.9	1,585.6	266.5	1,591.3	1.81	-0.38	-1.77	
11,914.0	91.86	358.29	10,382.0	1,679.5	262.4	1,685.1	2.30	1.59	1.67	
12,008.0	90.79	359.84	10,379.9	1,773.4	260.9	1,779.0	2.00	-1.14	1.65	
12,103.0	90.87	359.94	10,378.5	1,868.4	260.7	1,874.0	0.13	0.08	0.11	
12,197.0	91.30	0.08	10,376.7	1,962.4	260.7	1,967.9	0.48	0.46	0.15	
12,291.0	88.96	0.03	10,376.5	2,056.4	260.8	2,061.9	2.49	-2.49	-0.05	
12,385.0	88.96	359.57	10,378.2	2,150.4	260.5	2,155.8	0.49	0.00	-0.49	
12,480.0	89.15	359.24	10,379.8	2,245.4	259.5	2,250.8	0.40	0.20	-0.35	
12,574.0	89.33	359.17	10,381.0	2,339.3	258.2	2,344.7	0.21	0.19	-0.07	
12,669.0	89.88	359.28	10,381.7	2,434.3	256.9	2,439.6	0.59	0.58	0.12	
12,763.0	89.69	358.84	10,382.0	2,528.3	255.3	2,533.6	0.51	-0.20	-0.47	
12,858.0	89.67	358.22	10,382.5	2,623.3	252.9	2,628.4	0.65	-0.02	-0.65	
12,953.0	89.68	358.47	10,383.1	2,718.2	250.2	2,723.3	0.26	0.01	0.26	
13,048.0	90.03	358.13	10,383.3	2,813.2	247.3	2,818.2	0.51	0.37	-0.36	
13,142.0	90.23	357.94	10,383.1	2,907.1	244.1	2,912.0	0.29	0.21	-0.20	
13,237.0	90.59	357.67	10,382.4	3,002.1	240.5	3,006.8	0.47	0.38	-0.28	
13,333.0	91.09	358.12	10,381.0	3,098.0	237.0	3,102.7	0.70	0.52	0.47	
13,427.0	91.02	0.25	10,379.3	3,192.0	235.6	3,196.6	2.27	-0.07	2.27	
13,522.0	91.09	0.20	10,377.5	3,287.0	236.0	3,291.5	0.09	0.07	-0.05	
13,616.0	91.62	0.14	10,375.3	3,380.9	236.3	3,385.5	0.57	0.56	-0.06	
13,711.0	90.10	1.61	10,373.9	3,475.9	237.7	3,480.5	2.23	-1.60	1.55	

Concho Resources LLC

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well SQUINTS FED COM 7H
Project:	LEA COUNTY, NM	TVD Reference:	KB=30' @ 3434.1usft (SCAN QUEST)
Site:	BULLDOG	MD Reference:	KB=30' @ 3434.1usft (SCAN QUEST)
Well:	SQUINTS FED COM 7H	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)
13,806.0	90.58	1.45	10,373.3	3,570.9	240.3	3,575.5	0.53	0.51	-0.17
13,902.0	90.98	1.54	10,372.0	3,666.8	242.8	3,671.5	0.43	0.42	0.09
13,996.0	91.37	1.40	10,370.1	3,760.8	245.2	3,765.4	0.44	0.41	-0.15
14,091.0	91.06	0.79	10,368.1	3,855.7	247.0	3,860.4	0.72	-0.33	-0.64
14,186.0	91.43	0.51	10,366.0	3,950.7	248.1	3,955.4	0.49	0.39	-0.29
14,282.0	88.60	0.25	10,366.0	4,046.7	248.7	4,051.4	2.96	-2.95	-0.27
14,376.0	88.86	0.47	10,368.1	4,140.7	249.3	4,145.3	0.36	0.28	0.23
14,470.0	89.11	0.20	10,369.7	4,234.6	249.8	4,239.3	0.39	0.27	-0.29
14,565.0	89.90	0.09	10,370.6	4,329.6	250.1	4,334.3	0.84	0.83	-0.12
14,659.0	89.67	358.89	10,370.9	4,423.6	249.2	4,428.2	1.30	-0.24	-1.28
14,753.0	90.05	358.41	10,371.1	4,517.6	247.0	4,522.1	0.65	0.40	-0.51
14,847.0	90.37	358.29	10,370.8	4,611.6	244.3	4,616.0	0.36	0.34	-0.13
14,941.0	90.55	357.86	10,370.0	4,705.5	241.2	4,709.8	0.50	0.19	-0.46
15,035.0	91.09	359.68	10,368.7	4,799.5	239.1	4,803.7	2.02	0.57	1.94
15,130.0	91.59	359.58	10,366.5	4,894.4	238.5	4,898.7	0.54	0.53	-0.11
15,224.0	91.85	359.41	10,363.7	4,988.4	237.7	4,992.6	0.33	0.28	-0.18
15,318.0	92.42	359.43	10,360.2	5,082.3	236.8	5,086.5	0.61	0.61	0.02
15,412.0	90.42	358.73	10,357.8	5,176.3	235.2	5,180.4	2.25	-2.13	-0.74
15,506.0	89.42	357.44	10,358.0	5,270.2	232.1	5,274.2	1.74	-1.06	-1.37
15,600.0	90.19	357.72	10,358.3	5,364.1	228.1	5,368.0	0.87	0.82	0.30
15,695.0	90.96	358.36	10,357.3	5,459.1	224.9	5,462.8	1.05	0.81	0.67
15,790.0	91.04	358.17	10,355.7	5,554.0	222.0	5,557.7	0.22	0.08	-0.20
15,885.0	91.10	0.15	10,353.9	5,649.0	220.6	5,652.6	2.08	0.06	2.08
15,980.0	90.87	359.70	10,352.3	5,744.0	220.5	5,747.5	0.53	-0.24	-0.47
16,075.0	91.73	1.17	10,350.1	5,838.9	221.2	5,842.5	1.79	0.91	1.55
16,170.0	91.85	0.82	10,347.1	5,933.9	222.9	5,937.5	0.39	0.13	-0.37
16,265.0	92.07	0.32	10,343.9	6,028.8	223.8	6,032.4	0.57	0.23	-0.53
16,360.0	91.04	1.28	10,341.3	6,123.8	225.1	6,127.4	1.48	-1.08	1.01
16,455.0	91.09	1.14	10,339.5	6,218.7	227.1	6,222.3	0.16	0.05	-0.15
16,550.0	89.91	1.55	10,338.7	6,313.7	229.4	6,317.3	1.31	-1.24	0.43
16,645.0	88.96	1.87	10,339.6	6,408.7	232.2	6,412.3	1.06	-1.00	0.34
16,739.0	88.69	1.10	10,341.6	6,502.6	234.6	6,506.3	0.87	-0.29	-0.82
16,834.0	88.89	359.12	10,343.6	6,597.6	234.8	6,601.3	2.09	0.21	-2.08
16,927.0	89.05	357.21	10,345.3	6,690.5	231.8	6,694.1	2.06	0.17	-2.05
17,022.0	88.41	357.73	10,347.4	6,785.4	227.7	6,788.9	0.87	-0.67	0.55
17,116.0	89.47	359.11	10,349.1	6,879.3	225.1	6,882.7	1.85	1.13	1.47
17,210.0	90.35	358.84	10,349.2	6,973.3	223.4	6,976.6	0.98	0.94	-0.29
17,304.0	89.86	0.51	10,349.1	7,067.3	222.8	7,070.6	1.85	-0.52	1.78
17,398.0	90.00	0.04	10,349.2	7,161.3	223.3	7,164.6	0.52	0.15	-0.50
17,492.0	89.87	359.56	10,349.3	7,255.3	223.0	7,258.5	0.53	-0.14	-0.51
17,586.0	89.15	358.65	10,350.1	7,349.3	221.5	7,352.5	1.23	-0.77	-0.97
17,681.0	89.70	0.44	10,351.1	7,444.3	220.7	7,447.4	1.97	0.58	1.88
17,775.0	89.91	0.59	10,351.4	7,538.3	221.6	7,541.4	0.27	0.22	0.16

Concho Resources LLC

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well SQUINTS FED COM 7H
Project:	LEA COUNTY, NM	TVD Reference:	KB=30' @ 3434.1usft (SCAN QUEST)
Site:	BULLDOG	MD Reference:	KB=30' @ 3434.1usft (SCAN QUEST)
Well:	SQUINTS FED COM 7H	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)
17,869.0	90.39	0.66	10,351.1	7,632.3	222.6	7,635.4	0.52	0.51	0.07
17,964.0	90.64	0.40	10,350.3	7,727.3	223.5	7,730.4	0.38	0.26	-0.27
18,058.0	90.00	0.84	10,349.7	7,821.3	224.5	7,824.4	0.83	-0.68	0.47
18,153.0	89.48	0.58	10,350.2	7,916.3	225.7	7,919.4	0.61	-0.55	-0.27
18,248.0	89.97	359.96	10,350.6	8,011.3	226.1	8,014.3	0.83	0.52	-0.65
18,343.0	91.70	359.89	10,349.2	8,106.2	226.0	8,109.3	1.82	1.82	-0.07
18,439.0	91.89	359.89	10,346.2	8,202.2	225.8	8,205.2	0.20	0.20	0.00
18,534.0	92.48	0.12	10,342.6	8,297.1	225.8	8,300.1	0.67	0.62	0.24
18,628.0	90.01	359.65	10,340.6	8,391.1	225.7	8,394.1	2.67	-2.63	-0.50
18,724.0	89.64	359.45	10,340.9	8,487.1	224.9	8,490.0	0.44	-0.39	-0.21
18,818.0	89.95	359.19	10,341.2	8,581.1	223.8	8,584.0	0.43	0.33	-0.28
18,912.0	90.63	359.14	10,340.7	8,675.1	222.4	8,677.9	0.73	0.72	-0.05
19,006.0	89.32	359.99	10,340.8	8,769.1	221.7	8,771.8	1.66	-1.39	0.90
19,100.0	89.89	0.20	10,341.4	8,863.1	221.9	8,865.8	0.65	0.61	0.22
19,194.0	88.86	359.67	10,342.4	8,957.1	221.7	8,959.8	1.23	-1.10	-0.56
19,288.0	89.30	359.61	10,344.0	9,051.0	221.2	9,053.7	0.47	0.47	-0.06
19,383.0	87.53	359.36	10,346.6	9,146.0	220.3	9,148.6	1.88	-1.86	-0.26
19,477.0	85.74	359.10	10,352.1	9,239.8	219.0	9,242.4	1.92	-1.90	-0.28
19,572.0	87.71	358.94	10,357.5	9,334.6	217.4	9,337.2	2.08	2.07	-0.17
19,667.0	89.18	358.86	10,360.1	9,429.6	215.6	9,432.1	1.55	1.55	-0.08
19,763.0	89.21	358.45	10,361.5	9,525.6	213.3	9,527.9	0.43	0.03	-0.43
19,858.0	89.41	357.32	10,362.6	9,620.5	209.8	9,622.8	1.21	0.21	-1.19
19,953.0	90.90	357.68	10,362.3	9,715.4	205.7	9,717.5	1.61	1.57	0.38
20,049.0	89.72	358.17	10,361.8	9,811.3	202.2	9,813.4	1.33	-1.23	0.51
20,144.0	88.26	358.63	10,363.5	9,906.3	199.6	9,908.2	1.61	-1.54	0.48
20,239.0	88.00	358.27	10,366.6	10,001.2	197.0	10,003.1	0.47	-0.27	-0.38
20,334.0	87.94	358.00	10,370.0	10,096.1	193.9	10,097.9	0.29	-0.06	-0.28
20,429.0	87.97	357.77	10,373.4	10,190.9	190.4	10,192.6	0.24	0.03	-0.24
20,476.0	88.23	357.54	10,374.9	10,237.9	188.5	10,239.5	0.74	0.55	-0.49
FINAL PHX SVY @ 20476'MD									
20,481.8	88.23	357.54	10,375.1	10,243.7	188.2	10,245.3	0.00	0.00	0.00
LTP @ 20481.8'MD / 10375.1'TVD									
20,531.0	88.23	357.54	10,376.6	10,292.8	186.1	10,294.4	0.00	0.00	0.00
PTD @ 20531'MD									

Concho Resources LLC

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well SQUINTS FED COM 7H
Project:	LEA COUNTY, NM	TVD Reference:	KB=30' @ 3434.1usft (SCAN QUEST)
Site:	BULLDOG	MD Reference:	KB=30' @ 3434.1usft (SCAN QUEST)
Well:	SQUINTS FED COM 7H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWP	Database:	edm

Design Targets

Target Name

- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
8000' VS TRGT (SQU	-0.42	179.66	10,352.0	7,996.8	232.6	502,290.37	770,071.19	32° 22' 40.353 N	103° 27' 30.704 W
- actual wellpath misses target center by 6.6usft at 18233.6usft MD (10350.6 TVD, 7996.8 N, 226.1 E)									
- Rectangle (sides W100.0 H1,818.0 D20.0)									
PBHL (SQUINTS FED	-0.65	179.66	10,378.0	10,294.3	238.9	504,587.90	770,077.50	32° 23' 3.087 N	103° 27' 30.411 W
- actual wellpath misses target center by 52.8usft at 20530.3usft MD (10376.6 TVD, 10292.1 N, 186.2 E)									
- Rectangle (sides W100.0 H2,296.8 D20.0)									
LTP (SQUINTS FED (	0.00	0.00	10,378.0	10,244.3	239.2	504,537.90	770,077.80	32° 23' 2.592 N	103° 27' 30.413 W
- actual wellpath misses target center by 51.0usft at 20480.3usft MD (10375.0 TVD, 10242.2 N, 188.3 E)									
- Point									
FTP (SQUINTS FED (	0.00	0.00	10,385.0	-117.5	300.6	494,176.10	770,139.20	32° 21' 20.057 N	103° 27' 30.685 W
- actual wellpath misses target center by 302.8usft at 10268.2usft MD (10195.0 TVD, 88.8 N, 186.4 E)									
- Circle (radius 50.0)									
1500 VS TRGT (SQU	0.00	179.66	10,390.0	1,494.2	271.0	495,787.76	770,109.58	32° 21' 36.007 N	103° 27' 30.876 W
- actual wellpath misses target center by 5.3usft at 11728.4usft MD (10384.7 TVD, 1494.1 N, 270.4 E)									
- Point									

Design Annotations

Measured Depth	Vertical Depth	Local Coordinates		Comment
(usft)	(usft)	+N/-S	+E/-W	
(usft)	(usft)	(usft)	(usft)	
9,851.1	9,838.9	-118.2	215.1	FTP @ 9851.1'MD / 9838.9'TVD
20,476.0	10,374.9	10,237.9	188.5	FINAL PHX SVY @ 20476'MD
20,481.8	10,375.1	10,243.7	188.2	LTP @ 20481.8'MD / 10375.1'TVD
20,531.0	10,376.6	10,292.8	186.1	PTD @ 20531'MD

Checked By: _____ Approved By: _____ Date: _____