



CONCHO

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Concho Resources, Inc.

Eddy County (NAD27 NME)

(Littlefield 33 Fed Com) Sec-33_T-26-S_R-29-E

Littlefield 33 Fed Com #706H

API# 30-015-45163

OWB

Design: AWB

30-015-45163

Standard Survey Report

11 February, 2019

INTREPID

Company:	Concho Resources, Inc.	Local Co-ordinate Reference:	Well Littlefield 33 Fed Com #706H
Project:	Eddy County (NAD27 NME)	TVD Reference:	KB @ 2891.4usft (Precision 106)
Site:	(Littlefield 33 Fed Com) Sec:33 T-26-S R-29-E	MD Reference:	KB @ 2891.4usft (Precision 106)
Well:	Littlefield 33 Fed Com #706H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

Project:	Eddy County (NAD27 NME)	System Datum:	Mean Sea Level
Map System:	US State Plane 1927 (Exact solution)		
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site:	(Littlefield 33 Fed Com) Sec:33 T-26-S R-29-E		
Site Position:		Northing:	364,187.99 usft
From:	Map	Easting:	606,535.56 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 0' 2.883 N
		Longitude:	103° 59' 22.784 W
		Grid Convergence:	0.18 °

Well:	Littlefield 33 Fed.Com #706H					
Well Position	+N/-S	0.0 usft	Northing:	364,192.00 usft	Latitude:	32° 0' 2.926 N
	+E/-W	0.0 usft	Easting:	606,415.30 usft	Longitude:	103° 59' 24.181 W
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft	Ground Level:	2,860.4 usft	

Wellbore:	OWB
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	09/05/18	7.00	59.77	47,640.12017409

Design:	AWB
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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	353.96

Survey Program	Date	From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
	02/11/19	100.0	9,300.0	SDI Gyro (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4
		9,491.0	17,006.0	Intrepid MWD Crv/Lat (OWB)	MWD+IFR1+MS	MWD + IFR1 + Multi-Station Correction

Survey	Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
	100.0	0.92	218.97	100.0	-0.6	-0.5	-0.6	0.92	0.92	0.00
	125.0	0.80	212.39	125.0	-0.9	-0.7	-0.8	0.62	-0.48	-26.32
	150.0	0.57	216.16	150.0	-1.2	-0.9	-1.1	0.94	-0.92	15.08
	175.0	0.42	225.14	175.0	-1.3	-1.0	-1.2	0.67	-0.60	35.92
	200.0	0.30	225.21	200.0	-1.5	-1.1	-1.3	0.48	-0.48	0.28
	225.0	0.20	226.05	225.0	-1.5	-1.2	-1.4	0.40	-0.40	3.36
	250.0	0.23	230.51	250.0	-1.6	-1.3	-1.4	0.14	0.12	17.84
	275.0	0.26	225.49	275.0	-1.7	-1.4	-1.5	0.15	0.12	-20.08
	300.0	0.28	233.47	300.0	-1.7	-1.5	-1.6	0.17	0.08	31.92

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Well:	Littlefield 33 Fed Com #706H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
325.0	0.29	226.93	325.0	-1.8	-1.6	-1.6	0.14	0.04	-26.16
350.0	0.47	234.80	350.0	-1.9	-1.7	-1.7	0.75	0.72	31.48
375.0	0.58	240.13	375.0	-2.0	-1.9	-1.8	0.48	0.44	21.32
400.0	0.70	243.71	400.0	-2.2	-2.1	-1.9	0.51	0.48	14.32
425.0	0.81	246.26	425.0	-2.3	-2.4	-2.0	0.46	0.44	10.20
450.0	0.91	250.73	450.0	-2.4	-2.8	-2.1	0.48	0.40	17.88
475.0	1.06	257.44	475.0	-2.6	-3.2	-2.2	0.76	0.60	26.84
478.0	1.09	257.20	478.0	-2.6	-3.2	-2.2	0.93	0.92	-8.02
Rustler									
500.0	1.29	255.75	500.0	-2.7	-3.7	-2.3	0.93	0.92	-6.59
525.0	1.39	255.06	525.0	-2.8	-4.2	-2.4	0.41	0.40	-2.76
550.0	1.26	253.60	550.0	-3.0	-4.8	-2.5	0.54	-0.52	-5.84
575.0	1.27	260.30	575.0	-3.1	-5.3	-2.5	0.59	0.04	26.80
600.0	1.24	262.35	599.9	-3.2	-5.9	-2.6	0.22	-0.12	8.20
625.0	1.42	264.69	624.9	-3.3	-6.5	-2.6	0.75	0.72	9.36
631.1	1.39	264.15	631.0	-3.3	-6.6	-2.6	0.60	-0.56	-8.83
TOS									
650.0	1.28	262.30	649.9	-3.3	-7.0	-2.6	0.60	-0.56	-9.79
675.0	1.49	259.81	674.9	-3.4	-7.6	-2.6	0.87	0.84	-9.96
700.0	1.97	262.96	699.9	-3.5	-8.4	-2.6	1.96	1.92	12.60
725.0	2.78	263.88	724.9	-3.6	-9.4	-2.6	3.24	3.24	3.68
750.0	3.26	264.38	749.9	-3.8	-10.7	-2.6	1.92	1.92	2.00
775.0	3.45	264.42	774.8	-3.9	-12.2	-2.6	0.76	0.76	0.16
800.0	3.58	264.09	799.8	-4.1	-13.7	-2.6	0.53	0.52	-1.32
825.0	3.80	263.21	824.7	-4.3	-15.3	-2.6	0.91	0.88	-3.52
850.0	4.81	262.90	849.6	-4.5	-17.2	-2.7	4.04	4.04	-1.24
875.0	5.66	261.95	874.5	-4.8	-19.4	-2.7	3.42	3.40	-3.80
900.0	5.94	261.44	899.4	-5.2	-21.9	-2.8	1.14	1.12	-2.04
925.0	6.19	261.83	924.3	-5.5	-24.5	-2.9	1.01	1.00	1.56
950.0	6.18	262.23	949.1	-5.9	-27.2	-3.0	0.18	-0.04	1.60
975.0	6.27	262.12	974.0	-6.3	-29.9	-3.1	0.36	0.36	-0.44
1,000.0	6.31	262.33	998.8	-6.6	-32.6	-3.2	0.18	0.16	0.84
1,025.0	6.32	261.92	1,023.7	-7.0	-35.3	-3.3	0.18	0.04	-1.64
1,050.0	6.27	261.37	1,048.5	-7.4	-38.0	-3.4	0.31	-0.20	-2.20
1,075.0	6.14	261.43	1,073.4	-7.8	-40.7	-3.5	0.52	-0.52	0.24
1,100.0	6.31	262.71	1,098.2	-8.2	-43.4	-3.6	0.88	0.68	5.12
1,125.0	6.22	261.57	1,123.1	-8.6	-46.1	-3.7	0.61	-0.36	-4.56
1,150.0	6.10	260.50	1,147.9	-9.0	-48.8	-3.8	0.66	-0.48	-4.28
1,175.0	6.15	259.60	1,172.8	-9.5	-51.4	-4.0	0.43	0.20	-3.60
1,200.0	5.97	258.80	1,197.7	-9.9	-54.0	-4.2	0.80	-0.72	-3.20
1,225.0	5.89	259.37	1,222.5	-10.4	-56.5	-4.4	0.40	-0.32	2.28
1,250.0	5.93	258.38	1,247.4	-10.9	-59.0	-4.7	0.44	0.16	-3.96
1,275.0	6.08	257.87	1,272.3	-11.5	-61.6	-4.9	0.64	0.60	-2.04

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Well:	Littlefield 33 Fed Com #706H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,300.0	6.18	256.01	1,297.1	-12.1	-64.2	-5.3	0.89	0.40	-7.44
1,325.0	6.33	254.96	1,322.0	-12.8	-66.8	-5.7	0.75	0.60	-4.20
1,350.0	6.25	253.58	1,346.8	-13.5	-69.5	-6.1	0.68	-0.32	-5.52
1,375.0	6.55	254.21	1,371.7	-14.3	-72.1	-6.6	1.23	1.20	2.52
1,400.0	6.41	253.28	1,396.5	-15.1	-74.9	-7.1	0.70	-0.56	-3.72
1,425.0	6.60	255.62	1,421.3	-15.8	-77.6	-7.6	1.30	0.76	9.36
1,450.0	6.56	256.43	1,446.2	-16.5	-80.4	-8.0	0.40	-0.16	3.24
1,475.0	6.50	265.81	1,471.0	-16.9	-83.2	-8.1	4.27	-0.24	37.52
1,500.0	6.38	266.71	1,495.8	-17.1	-86.0	-8.0	0.63	-0.48	3.60
1,525.0	6.48	266.25	1,520.7	-17.3	-88.8	-7.9	0.45	0.40	-1.84
1,550.0	6.35	267.52	1,545.5	-17.5	-91.5	-7.7	0.77	-0.52	5.08
1,575.0	6.36	267.38	1,570.4	-17.6	-94.3	-7.6	0.07	0.04	-0.56
1,600.0	6.20	267.32	1,595.2	-17.7	-97.0	-7.4	0.64	-0.64	-0.24
1,625.0	6.30	266.92	1,620.1	-17.8	-99.8	-7.2	0.44	0.40	-1.60
1,650.0	6.09	266.39	1,644.9	-18.0	-102.5	-7.1	0.87	-0.84	-2.12
1,675.0	6.13	266.59	1,669.8	-18.2	-105.1	-7.0	0.18	0.16	0.80
1,700.0	6.09	266.47	1,694.7	-18.3	-107.8	-6.9	0.17	-0.16	-0.48
1,725.0	5.91	266.35	1,719.5	-18.5	-110.4	-6.8	0.72	-0.72	-0.48
1,750.0	5.86	266.44	1,744.4	-18.6	-112.9	-6.7	0.20	-0.20	0.36
1,775.0	5.70	266.63	1,769.3	-18.8	-115.4	-6.6	0.64	-0.64	0.76
1,800.0	5.51	265.74	1,794.1	-19.0	-117.9	-6.5	0.84	-0.76	-3.56
1,825.0	5.47	265.83	1,819.0	-19.1	-120.3	-6.4	0.16	-0.16	0.36
1,850.0	5.47	265.75	1,843.9	-19.3	-122.6	-6.3	0.03	0.00	-0.32
1,875.0	5.67	264.93	1,868.8	-19.5	-125.1	-6.2	0.86	0.80	-3.28
1,900.0	5.55	264.89	1,893.7	-19.7	-127.5	-6.2	0.48	-0.48	-0.16
1,925.0	5.37	262.75	1,918.6	-20.0	-129.9	-6.2	1.09	-0.72	-8.56
1,950.0	5.21	262.84	1,943.5	-20.3	-132.1	-6.3	0.64	-0.64	0.36
1,975.0	5.15	262.70	1,968.3	-20.6	-134.4	-6.3	0.25	-0.24	-0.56
2,000.0	5.17	263.06	1,993.2	-20.8	-136.6	-6.3	0.15	0.08	1.44
2,025.0	5.08	263.88	2,018.1	-21.1	-138.8	-6.4	0.46	-0.36	3.28
2,050.0	4.83	263.16	2,043.1	-21.3	-141.0	-6.4	1.03	-1.00	-2.88
2,075.0	4.64	263.07	2,068.0	-21.6	-143.0	-6.4	0.76	-0.76	-0.36
2,100.0	4.58	262.39	2,092.9	-21.8	-145.0	-6.5	0.32	-0.24	-2.72
2,125.0	4.43	262.03	2,117.8	-22.1	-147.0	-6.5	0.61	-0.60	-1.44
2,150.0	4.50	266.08	2,142.7	-22.3	-148.9	-6.5	1.29	0.28	16.20
2,175.0	4.59	270.71	2,167.7	-22.4	-150.9	-6.4	1.51	0.36	18.52
2,200.0	4.56	269.19	2,192.6	-22.4	-152.9	-6.2	0.50	-0.12	-6.08
2,225.0	4.58	269.38	2,217.5	-22.4	-154.9	-6.0	0.10	0.08	0.76
2,250.0	4.59	269.85	2,242.4	-22.4	-156.9	-5.8	0.16	0.04	1.88
2,275.0	4.44	270.78	2,267.3	-22.4	-158.8	-5.6	0.67	-0.60	3.72
2,300.0	4.60	269.84	2,292.3	-22.4	-160.8	-5.3	0.71	0.64	-3.76
2,325.0	4.64	272.30	2,317.2	-22.3	-162.8	-5.1	0.81	0.16	9.84
2,350.0	4.72	271.45	2,342.1	-22.3	-164.9	-4.8	0.42	0.32	-3.40
2,375.0	4.73	267.88	2,367.0	-22.3	-166.9	-4.6	1.18	0.04	-14.28

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Well:	Littlefield 33 Fed Com #706H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
2,400.0	4.98	266.91	2,391.9	-22.4	-169.0	-4.5	1.05	1.00	-3.88
2,425.0	5.40	263.79	2,416.8	-22.6	-171.3	-4.4	2.02	1.68	-12.48
2,450.0	5.61	261.35	2,441.7	-22.9	-173.7	-4.5	1.26	0.84	-9.76
2,475.0	5.64	261.07	2,466.6	-23.3	-176.1	-4.6	0.16	0.12	-1.12
2,500.0	5.70	260.28	2,491.5	-23.7	-178.5	-4.7	0.39	0.24	-3.16
2,525.0	5.73	260.05	2,516.3	-24.1	-181.0	-4.9	0.15	0.12	-0.92
2,550.0	5.51	262.46	2,541.2	-24.4	-183.4	-5.0	1.29	-0.88	9.64
2,575.0	5.65	260.03	2,566.1	-24.8	-185.8	-5.1	1.10	0.56	-9.72
2,600.0	5.16	257.41	2,591.0	-25.3	-188.1	-5.3	2.19	-1.96	-10.48
2,625.0	4.93	258.43	2,615.9	-25.7	-190.2	-5.6	0.99	-0.92	4.08
2,641.2	4.83	263.78	2,632.0	-26.0	-191.6	-5.6	2.88	-0.59	33.10
BOS (Fletcher)									
2,650.0	4.80	266.78	2,640.8	-26.0	-192.3	-5.6	2.88	-0.39	33.96
2,675.0	5.01	275.38	2,665.7	-26.0	-194.5	-5.4	3.06	0.84	34.40
2,700.0	4.72	277.42	2,690.6	-25.7	-196.6	-4.9	1.35	-1.16	8.16
2,725.0	4.68	277.77	2,715.5	-25.5	-198.6	-4.4	0.20	-0.16	1.40
2,750.0	4.72	278.39	2,740.5	-25.2	-200.6	-3.9	0.26	0.16	2.48
2,775.0	4.84	278.97	2,765.4	-24.9	-202.7	-3.4	0.52	0.48	2.32
2,800.0	4.82	279.33	2,790.3	-24.5	-204.8	-2.8	0.15	-0.08	1.44
2,825.0	5.07	278.35	2,815.2	-24.2	-206.9	-2.3	1.06	1.00	-3.92
2,826.8	5.15	278.31	2,817.0	-24.2	-207.1	-2.3	4.60	4.60	-2.03
LMAR (Top Delaware)									
2,850.0	6.22	277.93	2,840.1	-23.8	-209.3	-1.7	4.60	4.60	-1.65
2,860.0	6.34	277.94	2,850.0	-23.7	-210.4	-1.4	1.16	1.16	0.12
BLCN									
2,875.0	6.51	277.96	2,864.9	-23.5	-212.1	-1.0	1.16	1.16	0.12
2,900.0	6.33	277.73	2,889.8	-23.1	-214.9	-0.4	0.73	-0.72	-0.92
2,925.0	6.54	278.28	2,914.6	-22.7	-217.6	0.3	0.88	0.84	2.20
2,950.0	6.56	278.45	2,939.4	-22.3	-220.5	1.0	0.11	0.08	0.68
2,975.0	6.68	278.01	2,964.3	-21.9	-223.3	1.7	0.52	0.48	-1.76
3,000.0	6.54	276.74	2,989.1	-21.5	-226.2	2.4	0.81	-0.56	-5.08
3,025.0	6.58	277.40	3,013.9	-21.1	-229.0	3.1	0.34	0.16	2.64
3,050.0	6.62	276.91	3,038.8	-20.8	-231.8	3.7	0.28	0.16	-1.96
3,075.0	6.65	276.80	3,063.6	-20.4	-234.7	4.4	0.13	0.12	-0.44
3,100.0	7.01	274.86	3,088.4	-20.1	-237.7	5.0	1.71	1.44	-7.76
3,125.0	8.28	267.95	3,113.2	-20.1	-241.0	5.4	6.26	5.08	-27.64
3,150.0	8.72	265.77	3,137.9	-20.3	-244.7	5.6	2.18	1.76	-8.72
3,175.0	8.65	266.14	3,162.6	-20.5	-248.4	5.7	0.36	-0.28	1.48
3,200.0	8.82	266.06	3,187.4	-20.8	-252.2	5.8	0.68	0.68	-0.32
3,225.0	8.82	265.53	3,212.1	-21.1	-256.1	6.0	0.33	0.00	-2.12
3,250.0	8.85	265.34	3,236.8	-21.4	-259.9	6.1	0.17	0.12	-0.76
3,275.0	8.89	265.15	3,261.5	-21.7	-263.7	6.2	0.20	0.16	-0.76
3,300.0	8.82	264.77	3,286.2	-22.0	-267.6	6.2	0.36	-0.28	-1.52

Company:	Concho Resources, Inc.	Local Co-ordinate Reference:	Well Littlefield 33 Fed Com #706H
Project:	Eddy County (NAD27 NME)	TVD Reference:	KB @ 2891.4usft (Precision 106)
Site:	(Littlefield 33 Fed Com) Sec 33 T-26-S-R-29-E	MD Reference:	KB @ 2891.4usft (Precision 106)
Well:	Littlefield 33 Fed Com #706H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
3,325.0	8.69	264.69	3,310.9	-22.4	-271.3	6.3	0.52	-0.52	-0.32	
3,350.0	8.57	264.54	3,335.6	-22.8	-275.1	6.3	0.49	-0.48	-0.60	
3,375.0	8.44	264.70	3,360.3	-23.1	-278.8	6.4	0.53	-0.52	0.64	
3,400.0	8.33	264.50	3,385.0	-23.4	-282.4	6.4	0.46	-0.44	-0.80	
3,425.0	8.33	264.59	3,409.8	-23.8	-286.0	6.4	0.05	0.00	0.36	
3,450.0	8.15	263.85	3,434.5	-24.1	-289.6	6.5	0.84	-0.72	-2.96	
3,475.0	8.18	263.23	3,459.3	-24.5	-293.1	6.4	0.37	0.12	-2.48	
3,500.0	8.17	263.21	3,484.0	-25.0	-296.6	6.4	0.04	-0.04	-0.08	
3,525.0	8.14	262.59	3,508.8	-25.4	-300.1	6.3	0.37	-0.12	-2.48	
3,550.0	8.05	262.46	3,533.5	-25.9	-303.6	6.2	0.37	-0.36	-0.52	
3,575.0	7.84	262.09	3,558.3	-26.3	-307.1	6.1	0.86	-0.84	-1.48	
3,600.0	7.81	262.70	3,583.0	-26.8	-310.4	6.0	0.35	-0.12	2.44	
3,625.0	7.63	261.97	3,607.8	-27.2	-313.8	5.9	0.82	-0.72	-2.92	
3,650.0	7.53	260.78	3,632.6	-27.7	-317.0	5.8	0.74	-0.40	-4.76	
3,675.0	7.50	260.81	3,657.4	-28.2	-320.2	5.6	0.12	-0.12	0.12	
3,700.0	7.34	261.22	3,682.2	-28.7	-323.4	5.4	0.67	-0.64	1.64	
3,725.0	7.27	260.53	3,707.0	-29.2	-326.6	5.3	0.45	-0.28	-2.76	
3,745.2	7.29	260.75	3,727.0	-29.7	-329.1	5.1	0.16	0.08	1.08	
CYCN										
3,750.0	7.29	260.80	3,731.8	-29.8	-329.7	5.1	0.16	0.08	1.08	
3,775.0	7.33	260.31	3,756.6	-30.3	-332.8	4.9	0.30	0.16	-1.96	
3,800.0	7.26	259.91	3,781.4	-30.8	-336.0	4.7	0.35	-0.28	-1.60	
3,825.0	7.34	259.57	3,806.2	-31.4	-339.1	4.5	0.36	0.32	-1.36	
3,850.0	7.08	258.45	3,831.0	-32.0	-342.2	4.2	1.18	-1.04	-4.48	
3,875.0	7.11	258.12	3,855.8	-32.6	-345.2	3.9	0.20	0.12	-1.32	
3,900.0	6.91	256.83	3,880.6	-33.3	-348.2	3.5	1.02	-0.80	-5.16	
3,925.0	6.70	256.05	3,905.4	-34.0	-351.0	3.1	0.92	-0.84	-3.12	
3,950.0	6.63	255.46	3,930.2	-34.7	-353.9	2.7	0.39	-0.28	-2.36	
3,975.0	6.82	255.66	3,955.1	-35.4	-356.7	2.3	0.77	0.76	0.80	
4,000.0	6.77	256.04	3,979.9	-36.1	-359.6	1.9	0.27	-0.20	1.52	
4,025.0	6.96	256.42	4,004.7	-36.9	-362.5	1.5	0.78	0.76	1.52	
4,050.0	6.82	255.59	4,029.5	-37.6	-365.4	1.1	0.69	-0.56	-3.32	
4,075.0	6.85	255.06	4,054.4	-38.3	-368.3	0.6	0.28	0.12	-2.12	
4,100.0	6.81	255.50	4,079.2	-39.1	-371.1	0.2	0.26	-0.16	1.76	
4,125.0	6.90	257.44	4,104.0	-39.8	-374.0	-0.2	0.99	0.36	7.76	
4,150.0	7.17	262.89	4,128.8	-40.3	-377.0	-0.4	2.88	1.08	21.80	
4,175.0	7.26	265.03	4,153.6	-40.6	-380.2	-0.4	1.13	0.36	8.56	
4,200.0	7.39	264.71	4,178.4	-40.9	-383.3	-0.4	0.55	0.52	-1.28	
4,225.0	7.53	264.49	4,203.2	-41.2	-386.6	-0.3	0.57	0.56	-0.88	
4,250.0	7.25	263.11	4,228.0	-41.6	-389.8	-0.3	1.33	-1.12	-5.52	
4,275.0	7.19	262.65	4,252.8	-42.0	-392.9	-0.4	0.33	-0.24	-1.84	
4,300.0	7.06	262.01	4,277.6	-42.4	-396.0	-0.5	0.61	-0.52	-2.56	
4,325.0	6.80	260.36	4,302.4	-42.8	-398.9	-0.6	1.31	-1.04	-6.60	
4,350.0	6.53	260.46	4,327.2	-43.3	-401.8	-0.8	1.08	-1.08	0.40	

Company:	Concho Resources, Inc.	Local Co-ordinate Reference:	Well Littlefield 33 Fed Com #706H
Project:	Eddy County (NAD27 NME)	TVD Reference:	KB @ 2891.4usft (Precision 106)
Site:	(Littlefield 33 Fed Com) Sec 33, T-26-S, R-29-E	MD Reference:	KB @ 2891.4usft (Precision 106)
Well:	Littlefield 33 Fed Com #706H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,375.0	6.62	260.05	4,352.1	-43.8	-404.6	-1.0	0.41	0.36	-1.64
4,400.0	6.58	260.14	4,376.9	-44.3	-407.5	-1.2	0.17	-0.16	0.36
4,425.0	6.61	259.97	4,401.7	-44.8	-410.3	-1.4	0.14	0.12	-0.68
4,450.0	6.59	258.59	4,426.6	-45.3	-413.1	-1.6	0.64	-0.08	-5.52
4,475.0	6.45	258.78	4,451.4	-45.9	-415.9	-1.9	0.57	-0.56	0.76
4,500.0	6.46	261.85	4,476.3	-46.4	-418.7	-2.1	1.38	0.04	12.28
4,525.0	6.68	265.86	4,501.1	-46.7	-421.5	-2.1	2.03	0.88	16.04
4,550.0	6.52	265.66	4,525.9	-46.9	-424.4	-2.0	0.65	-0.64	-0.80
4,575.0	6.54	265.52	4,550.8	-47.1	-427.2	-1.9	0.10	0.08	-0.56
4,600.0	6.73	266.81	4,575.6	-47.3	-430.1	-1.8	0.97	0.76	5.16
4,625.0	6.78	266.47	4,600.4	-47.5	-433.0	-1.6	0.26	0.20	-1.36
4,650.0	6.84	266.13	4,625.3	-47.7	-436.0	-1.5	0.29	0.24	-1.36
4,675.0	6.73	263.65	4,650.1	-47.9	-438.9	-1.5	1.25	-0.44	-9.92
4,700.0	6.51	264.91	4,674.9	-48.2	-441.8	-1.5	1.05	-0.88	5.04
4,725.0	6.58	264.52	4,699.7	-48.5	-444.6	-1.4	0.33	0.28	-1.56
4,750.0	6.47	263.98	4,724.6	-48.7	-447.5	-1.4	0.50	-0.44	-2.16
4,775.0	6.50	263.23	4,749.4	-49.1	-450.3	-1.4	0.36	0.12	-3.00
4,800.0	6.39	261.21	4,774.3	-49.4	-453.0	-1.5	1.01	-0.44	-8.08
4,825.0	6.27	262.31	4,799.1	-49.8	-455.8	-1.6	0.68	-0.48	4.40
4,850.0	6.39	261.21	4,824.0	-50.2	-458.5	-1.7	0.68	0.48	-4.40
4,875.0	6.44	260.42	4,848.8	-50.7	-461.2	-1.9	0.41	0.20	-3.16
4,900.0	6.31	258.08	4,873.7	-51.2	-464.0	-2.1	1.16	-0.52	-9.36
4,925.0	6.16	256.76	4,898.5	-51.8	-466.6	-2.4	0.83	-0.60	-5.28
4,950.0	6.06	255.34	4,923.4	-52.4	-469.2	-2.8	0.72	-0.40	-5.68
4,975.0	6.09	255.82	4,948.2	-53.1	-471.8	-3.2	0.24	0.12	1.92
5,000.0	6.08	254.59	4,973.1	-53.8	-474.3	-3.6	0.52	-0.04	-4.92
5,023.0	6.13	253.05	4,996.0	-54.4	-476.7	-4.0	0.74	0.20	-6.68
BYCN									
5,025.0	6.13	252.92	4,997.9	-54.5	-476.9	-4.0	0.74	0.21	-6.63
5,050.0	6.02	253.51	5,022.8	-55.3	-479.4	-4.5	0.51	-0.44	2.36
5,075.0	6.28	256.69	5,047.7	-56.0	-482.0	-4.9	1.71	1.04	12.72
5,100.0	6.54	264.48	5,072.5	-56.4	-484.8	-5.1	3.63	1.04	31.16
5,125.0	6.56	266.04	5,097.3	-56.6	-487.6	-5.0	0.72	0.08	6.24
5,150.0	6.54	265.92	5,122.2	-56.8	-490.4	-4.9	0.10	-0.08	-0.48
5,175.0	6.56	267.15	5,147.0	-57.0	-493.3	-4.8	0.57	0.08	4.92
5,200.0	6.70	266.70	5,171.8	-57.2	-496.2	-4.7	0.60	0.56	-1.80
5,225.0	6.67	266.32	5,196.7	-57.4	-499.1	-4.5	0.21	-0.12	-1.52
5,250.0	6.62	266.23	5,221.5	-57.5	-502.0	-4.4	0.20	-0.20	-0.36
5,275.0	6.70	266.11	5,246.3	-57.7	-504.9	-4.3	0.32	0.32	-0.48
5,300.0	6.61	265.18	5,271.2	-58.0	-507.7	-4.2	0.56	-0.36	-3.72
5,325.0	6.31	264.14	5,296.0	-58.2	-510.5	-4.2	1.29	-1.20	-4.16
5,350.0	6.41	263.41	5,320.9	-58.5	-513.3	-4.2	0.51	0.40	-2.92
5,375.0	6.04	263.81	5,345.7	-58.8	-516.0	-4.2	1.49	-1.48	1.60

Company:	Concho Resources, Inc.	Local Co-ordinate Reference:	Well Littlefield 33 Fed Com #706H
Project:	Eddy County (NAD27 NME)	TVD Reference:	KB @ 2891.4usft (Precision 106)
Site:	(Littlefield 33 Fed Com) Sec.33_T-26-S-R-29-E	MD Reference:	KB @ 2891.4usft (Precision 106)
Well:	Littlefield 33 Fed Com #706H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,400.0	6.06	263.57	5,370.6	-59.1	-518.6	-4.2	0.13	0.08	-0.96
5,425.0	6.20	265.69	5,395.4	-59.4	-521.3	-4.2	1.06	0.56	8.48
5,450.0	6.08	270.38	5,420.3	-59.4	-523.9	-4.0	2.06	-0.48	18.76
5,475.0	5.95	272.20	5,445.1	-59.4	-526.6	-3.7	0.92	-0.52	7.28
5,500.0	5.98	272.70	5,470.0	-59.3	-529.2	-3.3	0.24	0.12	2.00
5,525.0	5.96	273.41	5,494.9	-59.1	-531.7	-2.9	0.31	-0.08	2.84
5,550.0	5.95	272.78	5,519.7	-59.0	-534.3	-2.5	0.26	-0.04	-2.52
5,575.0	5.95	271.89	5,544.6	-58.9	-536.9	-2.1	0.37	0.00	-3.56
5,600.0	5.57	271.19	5,569.5	-58.8	-539.4	-1.7	1.55	-1.52	-2.80
5,625.0	5.56	271.25	5,594.4	-58.8	-541.9	-1.4	0.05	-0.04	0.24
5,650.0	5.59	270.27	5,619.2	-58.7	-544.3	-1.2	0.40	0.12	-3.92
5,675.0	5.39	268.47	5,644.1	-58.8	-546.7	-0.9	1.06	-0.80	-7.20
5,700.0	5.29	269.12	5,669.0	-58.8	-549.0	-0.7	0.47	-0.40	2.60
5,725.0	5.25	268.93	5,693.9	-58.9	-551.3	-0.5	0.17	-0.16	-0.76
5,750.0	5.14	268.04	5,718.8	-58.9	-553.6	-0.3	0.55	-0.44	-3.56
5,775.0	4.98	266.98	5,743.7	-59.0	-555.8	-0.2	0.74	-0.64	-4.24
5,800.0	4.97	268.46	5,768.6	-59.1	-557.9	-0.1	0.51	-0.04	5.92
5,825.0	5.07	267.35	5,793.5	-59.2	-560.1	0.1	0.56	0.40	-4.44
5,850.0	4.84	265.93	5,818.4	-59.3	-562.3	0.2	1.04	-0.92	-5.68
5,875.0	4.78	265.63	5,843.3	-59.5	-564.4	0.2	0.26	-0.24	-1.20
5,900.0	4.85	268.17	5,868.3	-59.6	-566.5	0.4	0.90	0.28	10.16
5,925.0	4.84	266.54	5,893.2	-59.7	-568.6	0.5	0.55	-0.04	-6.52
5,950.0	4.75	264.76	5,918.1	-59.8	-570.7	0.5	0.70	-0.36	-7.12
5,975.0	4.71	266.69	5,943.0	-60.0	-572.7	0.6	0.66	-0.16	7.72
6,000.0	4.66	264.84	5,967.9	-60.1	-574.7	0.7	0.64	-0.20	-7.40
6,025.0	4.72	264.32	5,992.8	-60.3	-576.8	0.7	0.29	0.24	-2.08
6,050.0	4.53	263.72	6,017.7	-60.5	-578.8	0.7	0.78	-0.76	-2.40
6,075.0	4.71	264.56	6,042.7	-60.7	-580.8	0.7	0.77	0.72	3.36
6,100.0	5.00	265.55	6,067.6	-60.9	-582.9	0.7	1.21	1.16	3.96
6,125.0	5.66	272.38	6,092.5	-61.0	-585.2	1.0	3.66	2.64	27.32
6,150.0	5.91	273.31	6,117.3	-60.8	-587.7	1.3	1.07	1.00	3.72
6,175.0	6.04	272.17	6,142.2	-60.7	-590.3	1.7	0.70	0.52	-4.56
6,200.0	5.86	272.74	6,167.1	-60.6	-592.9	2.1	0.76	-0.72	2.28
6,225.0	5.90	272.25	6,191.9	-60.5	-595.5	2.5	0.26	0.16	-1.96
6,250.0	5.89	271.57	6,216.8	-60.4	-598.0	2.9	0.28	-0.04	-2.72
6,275.0	5.78	269.49	6,241.7	-60.4	-600.6	3.1	0.95	-0.44	-8.32
6,300.0	5.69	269.86	6,266.5	-60.4	-603.1	3.4	0.39	-0.36	1.48
6,325.0	5.75	268.94	6,291.4	-60.4	-605.6	3.6	0.44	0.24	-3.68
6,350.0	5.48	266.50	6,316.3	-60.5	-608.0	3.8	1.44	-1.08	-9.76
6,375.0	5.33	267.18	6,341.2	-60.6	-610.4	3.9	0.65	-0.60	2.72
6,400.0	5.10	265.57	6,366.1	-60.8	-612.6	4.0	1.09	-0.92	-6.44
6,425.0	4.99	263.87	6,391.0	-61.0	-614.8	4.0	0.74	-0.44	-6.80
6,450.0	5.01	263.09	6,415.9	-61.2	-617.0	4.0	0.28	0.08	-3.12
6,475.0	4.70	261.87	6,440.8	-61.5	-619.1	4.0	1.31	-1.24	-4.88

Company:	Concho Resources, Inc.	Local Co-ordinate Reference:	Well Littlefield 33 Fed Com #706H
Project:	Eddy County (NAD27 NME)	TVD Reference:	KB @ 2891.4usft (Precision 106)
Site:	(Littlefield 33 Fed Com) Sec 33 T-26-S-R-29-E	MD Reference:	KB @ 2891.4usft (Precision 106)
Well:	Littlefield 33 Fed Com #706H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
6,500.0	4.81	259.98	6,465.7	-61.8	-621.1	3.9	0.77	0.44	-7.56	
6,525.0	4.83	256.35	6,490.6	-62.3	-623.2	3.6	1.22	0.08	-14.52	
6,543.4	4.93	255.02	6,509.0	-62.7	-624.7	3.4	0.80	0.52	-7.21	
Bone Sprg (BSGL)										
6,550.0	4.96	254.56	6,515.5	-62.8	-625.3	3.3	0.80	0.53	-7.02	
6,575.0	5.44	255.90	6,540.4	-63.4	-627.4	3.0	1.98	1.92	5.36	
6,600.0	6.09	259.72	6,565.3	-63.9	-629.9	2.7	3.02	2.60	15.28	
6,625.0	6.13	259.42	6,590.2	-64.4	-632.5	2.5	0.20	0.16	-1.20	
6,650.0	5.93	250.22	6,615.0	-65.1	-635.0	2.1	3.94	-0.80	-36.80	
6,675.0	5.66	238.88	6,639.9	-66.1	-637.3	1.3	4.70	-1.08	-45.36	
6,700.0	5.34	231.00	6,664.8	-67.5	-639.3	0.1	3.28	-1.28	-31.52	
6,725.0	5.02	224.64	6,689.7	-69.0	-640.9	-1.2	2.63	-1.28	-25.44	
6,743.4	4.45	218.11	6,708.0	-70.2	-641.9	-2.2	4.27	-3.11	-35.54	
U Avalon Sh										
6,750.0	4.26	215.34	6,714.6	-70.6	-642.2	-2.6	4.27	-2.86	-41.80	
6,775.0	3.26	202.62	6,739.6	-72.0	-643.1	-3.9	5.19	-4.00	-50.88	
6,800.0	2.97	198.34	6,764.5	-73.2	-643.5	-5.1	1.49	-1.16	-17.12	
6,825.0	2.94	201.23	6,789.5	-74.5	-644.0	-6.3	0.61	-0.12	11.56	
6,850.0	3.02	200.03	6,814.4	-75.7	-644.4	-7.5	0.41	0.32	-4.80	
6,875.0	2.97	197.03	6,839.4	-76.9	-644.8	-8.6	0.66	-0.20	-12.00	
6,900.0	2.98	197.90	6,864.4	-78.1	-645.2	-9.8	0.18	0.04	3.48	
6,925.0	3.00	200.48	6,889.3	-79.4	-645.7	-11.0	0.54	0.08	10.32	
6,950.0	3.06	213.51	6,914.3	-80.5	-646.3	-12.1	2.76	0.24	52.12	
6,975.0	3.44	231.07	6,939.3	-81.6	-647.2	-13.0	4.24	1.52	70.24	
7,000.0	3.66	233.84	6,964.2	-82.5	-648.4	-13.8	1.12	0.88	11.08	
7,025.0	3.72	233.82	6,989.2	-83.5	-649.7	-14.6	0.24	0.24	-0.08	
7,050.0	3.80	238.77	7,014.1	-84.4	-651.1	-15.4	1.34	0.32	19.80	
7,075.0	4.06	241.06	7,039.1	-85.2	-652.6	-16.1	1.21	1.04	9.16	
7,100.0	4.11	238.67	7,064.0	-86.1	-654.1	-16.8	0.71	0.20	-9.56	
7,125.0	4.19	238.39	7,088.9	-87.1	-655.7	-17.6	0.33	0.32	-1.12	
7,141.1	4.48	246.32	7,105.0	-87.6	-656.7	-18.1	4.14	1.83	49.18	
L Avalon Sh										
7,150.0	4.68	250.22	7,113.9	-87.9	-657.4	-18.2	4.14	2.20	43.94	
7,175.0	4.97	250.37	7,138.8	-88.6	-659.4	-18.7	1.16	1.16	0.60	
7,200.0	4.88	249.50	7,163.7	-89.3	-661.4	-19.3	0.47	-0.36	-3.48	
7,225.0	4.60	252.04	7,188.6	-90.0	-663.4	-19.7	1.40	-1.12	10.16	
7,250.0	4.02	259.54	7,213.5	-90.5	-665.2	-20.0	3.23	-2.32	30.00	
7,275.0	4.69	264.06	7,238.4	-90.8	-667.0	-20.1	3.01	2.68	18.08	
7,300.0	4.54	263.76	7,263.4	-91.0	-669.0	-20.1	0.61	-0.60	-1.20	
7,325.0	4.57	264.79	7,288.3	-91.2	-671.0	-20.1	0.35	0.12	4.12	
7,350.0	4.83	264.78	7,313.2	-91.4	-673.1	-20.0	1.04	1.04	-0.04	
7,375.0	5.68	263.19	7,338.1	-91.6	-675.3	-20.0	3.45	3.40	-6.36	
7,400.0	5.68	263.31	7,363.0	-91.9	-677.8	-20.1	0.05	0.00	0.48	
7,425.0	5.65	263.26	7,387.9	-92.2	-680.2	-20.1	0.12	-0.12	-0.20	

Company:	Concho Resources, Inc.	Local Co-ordinate Reference:	Well: Littlefield 33 Fed Com #706H
Project:	Eddy County (NAD27 NME)	TVD Reference:	KB @ 2891.4usft (Precision 106)
Site:	(Littlefield 33 Fed Com) Sec:33 T-26-S R-29-E	MD Reference:	KB @ 2891.4usft (Precision 106)
Well:	Littlefield 33 Fed Com #706H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM-5000-15 Single User Db

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,450.0	5.89	261.92	7,412.7	-92.5	-682.7	-20.2	1.10	0.96	-5.36
7,463.3	6.01	260.45	7,426.0	-92.7	-684.1	-20.2	1.43	0.87	-10.98
FBSG sand									
7,475.0	6.11	259.22	7,437.6	-92.9	-685.3	-20.3	1.43	0.89	-10.59
7,500.0	6.13	257.67	7,462.4	-93.5	-687.9	-20.6	0.67	0.08	-6.20
7,525.0	6.25	253.24	7,487.3	-94.1	-690.5	-21.0	1.97	0.48	-17.72
7,550.0	6.27	250.92	7,512.2	-95.0	-693.1	-21.5	1.01	0.08	-9.28
7,575.0	6.06	248.62	7,537.0	-95.9	-695.6	-22.2	1.30	-0.84	-9.20
7,600.0	5.69	248.79	7,561.9	-96.8	-698.0	-22.9	1.48	-1.48	0.68
7,625.0	5.72	248.17	7,586.8	-97.7	-700.3	-23.5	0.27	0.12	-2.48
7,650.0	5.78	248.04	7,611.6	-98.7	-702.7	-24.2	0.25	0.24	-0.52
7,675.0	5.88	248.12	7,636.5	-99.6	-705.0	-24.9	0.40	0.40	0.32
7,700.0	5.93	247.12	7,661.4	-100.6	-707.4	-25.6	0.46	0.20	-4.00
7,725.0	5.92	247.99	7,686.2	-101.6	-709.8	-26.4	0.36	-0.04	3.48
7,750.0	6.11	248.21	7,711.1	-102.6	-712.2	-27.1	0.77	0.76	0.88
7,775.0	6.20	247.95	7,736.0	-103.6	-714.7	-27.8	0.38	0.36	-1.04
7,800.0	6.24	247.87	7,760.8	-104.6	-717.2	-28.6	0.16	0.16	-0.32
7,825.0	6.12	248.98	7,785.7	-105.6	-719.7	-29.3	0.68	-0.48	4.44
7,850.0	6.18	249.40	7,810.5	-106.5	-722.2	-30.0	0.30	0.24	1.68
7,875.0	6.13	248.77	7,835.4	-107.5	-724.7	-30.6	0.34	-0.20	-2.52
7,900.0	6.48	255.22	7,860.2	-108.3	-727.3	-31.2	3.16	1.40	25.80
7,925.0	6.72	257.47	7,885.1	-109.0	-730.1	-31.6	1.41	0.96	9.00
7,950.0	6.74	257.90	7,909.9	-109.6	-733.0	-31.9	0.22	0.08	1.72
7,975.0	7.07	264.60	7,934.7	-110.1	-736.0	-32.0	3.48	1.32	26.80
8,000.0	7.81	274.32	7,959.5	-110.1	-739.2	-31.7	5.83	2.96	38.88
8,025.0	8.65	280.40	7,984.2	-109.6	-742.7	-30.9	4.83	3.36	24.32
8,050.0	8.87	283.55	8,008.9	-108.8	-746.4	-29.7	2.11	0.88	12.60
8,075.0	9.04	284.70	8,033.6	-107.9	-750.2	-28.4	0.99	0.68	4.60
8,100.0	8.99	285.44	8,058.3	-106.9	-754.0	-27.0	0.51	-0.20	2.96
8,125.0	8.90	286.58	8,083.0	-105.8	-757.7	-25.5	0.80	-0.36	4.56
8,150.0	8.83	286.98	8,107.7	-104.7	-761.4	-24.0	0.37	-0.28	1.60
8,175.0	8.75	286.32	8,132.4	-103.6	-765.1	-22.5	0.51	-0.32	-2.64
8,197.8	8.50	287.31	8,155.0	-102.6	-768.4	-21.2	1.26	-1.08	4.35
SBSG sand									
8,200.0	8.48	287.41	8,157.2	-102.5	-768.7	-21.1	1.26	-1.07	4.49
8,225.0	8.26	287.37	8,181.9	-101.4	-772.1	-19.6	0.88	-0.88	-0.16
8,250.0	7.97	286.03	8,206.6	-100.4	-775.5	-18.3	1.38	-1.16	-5.36
8,275.0	7.73	286.88	8,231.4	-99.4	-778.8	-17.0	1.07	-0.96	3.40
8,300.0	7.65	285.93	8,256.2	-98.5	-782.0	-15.7	0.60	-0.32	-3.80
8,325.0	7.67	283.72	8,281.0	-97.6	-785.2	-14.5	1.18	0.08	-8.84
8,350.0	7.55	283.93	8,305.7	-96.9	-788.4	-13.4	0.49	-0.48	0.84
8,375.0	7.41	282.85	8,330.5	-96.1	-791.6	-12.3	0.79	-0.56	-4.32
8,400.0	7.09	281.45	8,355.3	-95.4	-794.7	-11.3	1.46	-1.28	-5.60

Company:	Concho Resources, Inc.	Local Co-ordinate Reference:	Well Littlefield 33 Fed Com #706H
Project:	Eddy County (NAD27-NME)	TVD Reference:	KB @ 2891.4usft (Precision 106)
Site:	(Littlefield 33 Fed Com) Sec 33, T-26-S, R-29-E	MD Reference:	KB @ 2891.4usft (Precision 106)
Well:	Littlefield 33 Fed Com #706H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,425.0	6.94	281.06	8,380.1	-94.8	-797.7	-10.4	0.63	-0.60	-1.56
8,450.0	6.88	279.68	8,404.9	-94.3	-800.6	-9.5	0.71	-0.24	-5.52
8,475.0	6.69	279.19	8,429.8	-93.8	-803.6	-8.8	0.79	-0.76	-1.96
8,500.0	6.56	277.46	8,454.6	-93.4	-806.4	-8.0	0.95	-0.52	-6.92
8,525.0	6.44	277.63	8,479.4	-93.0	-809.2	-7.4	0.49	-0.48	0.68
8,550.0	6.17	276.40	8,504.3	-92.7	-811.9	-6.7	1.21	-1.08	-4.92
8,575.0	5.93	277.88	8,529.2	-92.4	-814.6	-6.1	1.14	-0.96	5.92
8,600.0	5.69	276.68	8,554.0	-92.0	-817.1	-5.6	1.08	-0.96	-4.80
8,621.1	5.85	278.43	8,575.0	-91.8	-819.2	-5.1	1.13	0.76	8.32
SBSG sand base									
8,625.0	5.88	278.75	8,578.9	-91.7	-819.6	-5.0	1.13	0.77	8.05
8,650.0	5.89	277.49	8,603.8	-91.3	-822.1	-4.3	0.52	0.04	-5.04
8,675.0	5.99	278.42	8,628.6	-91.0	-824.7	-3.7	0.56	0.40	3.72
8,700.0	5.89	278.65	8,653.5	-90.6	-827.2	-3.1	0.41	-0.40	0.92
8,725.0	5.66	284.45	8,678.4	-90.1	-829.7	-2.3	2.51	-0.92	23.20
8,750.0	4.83	296.09	8,703.3	-89.3	-831.8	-1.3	5.38	-3.32	46.56
8,775.0	4.51	299.17	8,728.2	-88.4	-833.6	-0.2	1.63	-1.28	12.32
8,800.0	4.06	299.36	8,753.1	-87.5	-835.3	0.9	1.80	-1.80	0.76
8,825.0	3.79	296.78	8,778.1	-86.7	-836.8	1.9	1.29	-1.08	-10.32
8,850.0	3.75	295.75	8,803.0	-85.9	-838.2	2.7	0.31	-0.16	-4.12
8,875.0	3.44	295.39	8,828.0	-85.3	-839.6	3.6	1.24	-1.24	-1.44
8,900.0	3.07	292.42	8,852.9	-84.7	-840.9	4.3	1.63	-1.48	-11.88
8,925.0	1.41	282.34	8,877.9	-84.4	-841.9	4.7	6.80	-6.64	-40.32
8,950.0	0.90	284.65	8,902.9	-84.2	-842.4	4.8	2.05	-2.04	9.24
8,975.0	0.91	254.48	8,927.9	-84.2	-842.7	4.9	1.88	0.04	-120.68
9,000.0	0.88	251.07	8,952.9	-84.4	-843.1	4.8	0.24	-0.12	-13.64
9,025.0	1.13	246.81	8,977.9	-84.5	-843.5	4.7	1.04	1.00	-17.04
9,050.0	0.91	254.07	9,002.9	-84.7	-843.9	4.6	1.02	-0.88	29.04
9,075.0	0.99	259.76	9,027.9	-84.8	-844.3	4.5	0.49	0.32	22.76
9,100.0	1.08	276.24	9,052.9	-84.8	-844.8	4.6	1.24	0.36	65.92
9,125.0	1.01	289.02	9,077.9	-84.7	-845.2	4.7	0.97	-0.28	51.12
9,150.0	1.15	293.45	9,102.9	-84.5	-845.7	4.9	0.65	0.56	17.72
9,175.0	1.28	292.81	9,127.9	-84.3	-846.2	5.2	0.52	0.52	-2.56
9,200.0	1.37	294.82	9,152.8	-84.1	-846.7	5.5	0.41	0.36	8.04
9,225.0	1.37	297.80	9,177.8	-83.8	-847.2	5.8	0.28	0.00	11.92
9,250.0	1.44	294.84	9,202.8	-83.5	-847.8	6.1	0.40	0.28	-11.84
9,275.0	1.44	293.86	9,227.8	-83.3	-848.3	6.4	0.10	0.00	-3.92
9,300.0	1.45	290.21	9,252.8	-83.0	-848.9	6.7	0.37	0.04	-14.60
Tie to SDI Gyro									
9,337.2	1.39	288.82	9,290.0	-82.7	-849.8	7.1	0.18	-0.16	-3.74
TBSG sand									
9,491.0	1.16	281.60	9,443.8	-81.8	-853.1	8.4	0.18	-0.15	-4.69
9,522.0	1.13	268.84	9,474.8	-81.8	-853.7	8.5	0.83	-0.10	-41.16
9,554.0	4.41	359.37	9,506.7	-80.5	-854.0	9.8	14.26	10.25	282.91

Company:	Concho Resources, Inc.	Local Co-ordinate Reference:	Well Littlefield 33 Fed Com #706H
Project:	Eddy County (NAD27 NME)	TVD Reference:	KB @ 2891.4usft (Precision 106)
Site:	(Littlefield 33 Fed Com) Sec 33_T-26-S_R-29-E	MD Reference:	KB @ 2891.4usft (Precision 106)
Well:	Littlefield 33 Fed Com #706H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

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)
9,585.0	12.11	3.07	9,537.4	-76.1	-853.9	14.2	24.89	24.84	11.94
9,617.0	20.74	3.27	9,568.0	-67.1	-853.4	23.1	26.97	26.97	0.63
9,648.0	27.63	7.61	9,596.3	-54.4	-852.1	35.5	22.94	22.23	14.00
9,679.0	29.53	7.36	9,623.5	-39.7	-850.2	49.9	6.14	6.13	-0.81
9,710.0	30.37	5.52	9,650.4	-24.4	-848.4	65.0	4.02	2.71	-5.94
9,720.0	31.14	5.35	9,659.0	-19.3	-847.9	70.1	7.70	7.65	-1.70
WFMP									
9,742.0	32.82	5.00	9,677.6	-7.7	-846.9	81.5	7.70	7.66	-1.59
9,773.0	35.52	6.73	9,703.3	9.6	-845.1	98.5	9.26	8.71	5.58
9,803.6	37.78	5.85	9,727.8	27.8	-843.1	116.4	7.58	7.39	-2.87
FTP @ 9803.6'MD, 330°FSL & 1119°FEL									
9,804.0	37.81	5.84	9,728.2	28.0	-843.1	116.6	7.58	7.40	-2.72
9,836.0	42.17	4.90	9,752.7	48.5	-841.2	136.7	13.75	13.63	-2.94
9,867.0	45.44	3.76	9,775.0	69.9	-839.6	157.9	10.85	10.55	-3.68
9,898.0	48.10	1.82	9,796.3	92.5	-838.5	180.2	9.72	8.58	-6.26
9,930.0	49.68	0.35	9,817.3	116.6	-838.0	204.1	6.03	4.94	-4.59
9,961.0	51.39	359.65	9,837.0	140.5	-838.0	227.9	5.78	5.52	-2.26
9,992.0	54.78	359.68	9,855.6	165.3	-838.2	252.5	10.94	10.94	0.10
10,023.0	57.25	0.51	9,873.0	191.0	-838.1	278.1	8.27	7.97	2.68
10,055.0	60.82	2.25	9,889.4	218.4	-837.4	305.3	12.09	11.16	5.44
10,086.0	63.03	3.28	9,904.0	245.7	-836.1	332.3	7.71	7.13	3.32
10,118.0	65.19	1.76	9,918.0	274.5	-834.9	360.8	7.99	6.75	-4.75
10,149.0	67.70	0.38	9,930.4	302.9	-834.3	389.0	9.07	8.10	-4.45
10,181.0	70.11	1.47	9,941.9	332.7	-833.9	418.6	8.17	7.53	3.41
10,212.0	72.14	1.54	9,951.9	362.1	-833.1	447.7	6.55	6.55	0.23
10,244.0	74.81	2.67	9,961.0	392.7	-832.0	478.1	9.00	8.34	3.53
10,275.0	77.41	5.28	9,968.5	422.7	-829.9	507.7	11.71	8.39	8.42
10,306.0	81.03	7.01	9,974.3	453.0	-826.6	537.5	12.90	11.68	5.58
10,337.0	85.16	6.88	9,978.0	483.6	-822.9	567.4	13.33	13.32	-0.42
10,369.0	88.08	6.13	9,979.9	515.3	-819.3	598.6	9.42	9.13	-2.34
10,431.0	90.43	4.83	9,980.7	577.0	-813.3	659.4	4.33	3.79	-2.10
10,465.0	90.63	4.69	9,980.4	610.9	-810.5	692.8	0.72	0.59	-0.41
10,512.0	91.05	5.21	9,979.7	657.7	-806.5	738.9	1.42	0.89	1.11
10,559.0	89.93	2.91	9,979.3	704.6	-803.1	785.2	5.44	-2.38	-4.89
10,606.0	88.14	359.03	9,980.1	751.5	-802.3	831.8	9.09	-3.81	-8.26
10,652.0	88.36	358.03	9,981.5	797.5	-803.5	877.6	2.22	0.48	-2.17
10,746.0	89.62	358.46	9,983.1	891.4	-806.4	971.3	1.42	1.34	0.46
10,840.0	89.00	355.75	9,984.3	985.3	-811.1	1,065.2	2.96	-0.66	-2.88
10,935.0	89.12	357.36	9,985.8	1,080.1	-816.9	1,160.1	1.70	0.13	1.69
11,028.0	88.14	358.94	9,988.0	1,173.0	-819.9	1,252.8	2.00	-1.05	1.70
11,121.0	90.29	359.95	9,989.3	1,266.0	-820.8	1,345.3	2.55	2.31	1.09
11,215.0	91.28	359.97	9,988.0	1,360.0	-820.8	1,438.8	1.05	1.05	0.02
11,309.0	90.18	2.06	9,986.8	1,454.0	-819.2	1,532.1	2.51	-1.17	2.22
11,403.0	88.92	2.27	9,987.6	1,547.9	-815.6	1,625.1	1.36	-1.34	0.22

Company:	Concho Resources, Inc.	Local Co-ordinate Reference:	Well Littlefield 33 Fed Com #706H
Project:	Eddy County (NAD27 NME)	TVD Reference:	KB @ 2891.4usft (Precision 106)
Site:	(Littlefield 33 Fed Com) Sec-33, T-26-S, R-29-E	MD Reference:	KB @ 2891.4usft (Precision 106)
Well:	Littlefield 33 Fed Com #706H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
11,496.0	90.21	3.53	9,988.3	1,640.8	-810.9	1,717.0	1.94	1.39	1.35	
11,590.0	89.96	0.85	9,988.1	1,734.7	-807.3	1,810.0	2.86	-0.27	-2.85	
11,684.0	91.05	1.02	9,987.3	1,828.7	-805.8	1,903.3	1.17	1.16	0.18	
11,778.0	86.96	356.00	9,988.9	1,922.6	-808.2	1,997.0	6.89	-4.35	-5.34	
11,877.0	88.61	358.29	9,992.8	2,021.4	-813.1	2,095.7	2.85	1.67	2.31	
11,971.0	88.22	357.37	9,995.4	2,115.3	-816.7	2,189.5	1.06	-0.41	-0.98	
12,066.0	87.60	359.77	9,998.8	2,210.2	-819.1	2,284.1	2.61	-0.65	2.53	
12,159.0	89.34	0.15	10,001.3	2,303.1	-819.1	2,376.5	1.92	1.87	0.41	
12,254.0	87.74	1.18	10,003.7	2,398.1	-818.0	2,470.9	2.00	-1.68	1.08	
12,347.0	87.83	2.29	10,007.3	2,491.0	-815.2	2,562.9	1.20	0.10	1.19	
12,441.0	88.95	2.20	10,010.0	2,584.9	-811.5	2,655.9	1.20	1.19	-0.10	
12,535.0	92.20	2.92	10,009.0	2,678.8	-807.3	2,748.8	3.54	3.46	0.77	
12,628.0	92.20	2.58	10,005.5	2,771.6	-802.9	2,840.7	0.37	0.00	-0.37	
12,722.0	91.33	359.99	10,002.6	2,865.5	-800.8	2,933.9	2.91	-0.93	-2.76	
12,816.0	92.23	0.40	9,999.6	2,959.5	-800.5	3,027.3	1.05	0.96	0.44	
12,909.0	91.11	0.24	9,996.9	3,052.4	-799.9	3,119.6	1.22	-1.20	-0.17	
13,004.0	88.19	359.42	9,997.5	3,147.4	-800.2	3,214.1	3.19	-3.07	-0.86	
13,098.0	92.31	1.63	9,997.1	3,241.4	-799.4	3,307.5	4.97	4.38	2.35	
13,191.0	87.94	357.79	9,996.9	3,334.3	-799.8	3,400.0	6.25	-4.70	-4.13	
13,286.0	88.42	1.60	9,999.9	3,429.3	-800.3	3,494.4	4.04	0.51	4.01	
13,379.0	87.18	0.96	10,003.5	3,522.2	-798.3	3,586.6	1.50	-1.33	-0.69	
13,473.0	89.87	1.75	10,005.9	3,616.1	-796.0	3,679.8	2.98	2.86	0.84	
13,567.0	89.93	1.40	10,006.1	3,710.1	-793.5	3,773.0	0.38	0.06	-0.37	
13,661.0	88.56	0.40	10,007.3	3,804.1	-792.0	3,866.3	1.80	-1.46	-1.06	
13,755.0	89.03	0.11	10,009.3	3,898.0	-791.6	3,959.7	0.59	0.50	-0.31	
13,849.0	90.74	358.05	10,009.5	3,992.0	-793.1	4,053.3	2.85	1.82	-2.19	
13,943.0	90.15	351.71	10,008.7	4,085.6	-801.5	4,147.2	6.77	-0.63	-6.74	
14,037.0	87.86	353.01	10,010.4	4,178.7	-813.9	4,241.2	2.80	-2.44	1.38	
14,084.0	90.15	356.23	10,011.2	4,225.5	-818.3	4,288.2	8.41	4.87	6.85	
14,131.0	87.55	357.67	10,012.1	4,272.4	-820.8	4,335.1	6.32	-5.53	3.06	
14,225.0	87.74	356.93	10,016.0	4,366.2	-825.3	4,428.8	0.81	0.20	-0.79	
14,272.0	89.68	358.99	10,017.1	4,413.2	-826.9	4,475.7	6.02	4.13	4.38	
14,318.0	89.99	358.04	10,017.2	4,459.2	-828.1	4,521.6	2.17	0.67	-2.07	
14,365.0	90.71	1.32	10,016.9	4,506.2	-828.4	4,568.3	7.14	1.53	6.98	
14,413.0	90.01	3.95	10,016.6	4,554.1	-826.2	4,615.8	5.67	-1.46	5.48	
14,460.0	90.77	4.89	10,016.3	4,601.0	-822.6	4,662.0	2.57	1.62	2.00	
14,507.0	88.17	4.51	10,016.7	4,647.8	-818.7	4,708.1	5.59	-5.53	-0.81	
14,554.0	85.98	3.45	10,019.1	4,694.6	-815.5	4,754.4	5.18	-4.66	-2.26	
14,600.0	86.26	3.67	10,022.2	4,740.4	-812.6	4,799.6	0.77	0.61	0.48	
14,647.0	87.83	3.74	10,024.6	4,787.3	-809.6	4,845.9	3.34	3.34	0.15	
14,694.0	86.06	2.78	10,027.2	4,834.1	-806.9	4,892.2	4.28	-3.77	-2.04	
14,788.0	88.00	3.60	10,032.0	4,927.9	-801.7	4,984.8	2.24	2.06	0.87	
14,881.0	87.21	3.68	10,035.9	5,020.6	-795.8	5,076.4	0.85	-0.85	0.09	

Company:	Concho Resources, Inc.	Local Co-ordinate Reference:	Well Littlefield 33 Fed Com #706H
Project:	Eddy County (NAD27 NME)	TVD Reference:	KB @ 2891.4usft (Precision 106)
Site:	(Littlefield 33 Fed Com) Sec 33, T-26-S, R-29-E	MD Reference:	KB @ 2891.4usft (Precision 106)
Well:	Littlefield 33 Fed Com #706H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

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)
14,975.0	91.58	6.40	10,036.9	5,114.2	-787.5	5,168.7	5.48	4.65	2.89
15,070.0	88.81	0.81	10,036.6	5,208.9	-781.6	5,262.3	6.57	-2.92	-5.88
15,164.0	91.25	1.30	10,036.5	5,302.9	-779.8	5,355.5	2.65	2.60	0.52
15,258.0	89.54	358.82	10,035.9	5,396.9	-779.7	5,449.0	3.20	-1.82	-2.64
15,352.0	89.06	3.33	10,037.0	5,490.9	-778.0	5,542.2	4.82	-0.51	4.80
15,446.0	88.89	5.17	10,038.7	5,584.6	-771.0	5,634.7	1.97	-0.18	1.96
15,540.0	86.37	2.91	10,042.6	5,678.3	-764.4	5,727.2	3.60	-2.68	-2.40
15,634.0	86.99	0.89	10,048.0	5,772.0	-761.3	5,820.1	2.24	0.66	-2.15
15,728.0	88.00	0.92	10,052.2	5,865.9	-759.8	5,913.3	1.07	1.07	0.03
15,822.0	89.03	0.91	10,054.6	5,959.9	-758.3	6,006.6	1.10	1.10	-0.01
15,916.0	90.04	0.91	10,055.4	6,053.9	-756.8	6,099.9	1.07	1.07	0.00
16,010.0	90.04	1.08	10,055.3	6,147.9	-755.2	6,193.2	0.18	0.00	0.18
16,104.0	87.88	359.47	10,057.0	6,241.8	-754.7	6,286.6	2.87	-2.30	-1.71
16,198.0	87.27	358.76	10,061.0	6,335.7	-756.2	6,380.1	1.00	-0.65	-0.76
16,292.0	87.58	0.35	10,065.2	6,429.6	-756.9	6,473.6	1.72	0.33	1.69
16,386.0	88.53	359.67	10,068.4	6,523.6	-756.9	6,567.0	1.24	1.01	-0.72
16,480.0	90.55	0.56	10,069.1	6,617.6	-756.7	6,660.5	2.35	2.15	0.95
16,574.0	92.76	359.83	10,066.4	6,711.5	-756.4	6,753.9	2.48	2.35	-0.78
16,667.0	92.39	357.97	10,062.2	6,804.4	-758.2	6,846.4	2.04	-0.40	-2.00
16,762.0	88.08	356.93	10,061.9	6,899.3	-762.4	6,941.2	4.67	-4.54	-1.09
16,855.0	85.19	357.45	10,067.3	6,992.0	-766.9	7,033.9	3.16	-3.11	0.56
16,878.2	84.92	357.33	10,069.3	7,015.1	-768.0	7,057.0	1.27	-1.16	-0.52
LTP @ 16878.2 MD, 330° FNL & 1149° FEL									
16,942.0	84.18	357.00	10,075.4	7,078.5	-771.1	7,120.4	1.27	-1.16	-0.52
LAST SVY									
17,006.0	84.18	357.00	10,081.9	7,142.1	-774.5	7,184.0	0.00	0.00	0.00
Projection to TD @ 17006 MD, 203° FNL & 1157° FEL									

Design Targets									
Target Name	hit/miss target	Dip Angle (°)	Dip Dir (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude Longitude
FTP (Littlefield 33 Fed)	- actual wellpath misses target center by 185.1usft at 9961.0usft MD (9837.0 TVD, 140.5 N, -838.0 E)	0.00	0.00	9,983.0	27.9	-821.3	364,219.90	605,594.00	32° 0' 3.228 N 103° 59' 33.717 W
- Point									
LTP (Littlefield 33 Fed)	- actual wellpath misses target center by 11.7usft at 16877.2usft MD (10069.2 TVD, 7014.1 N, -767.9 E)	0.00	0.00	10,065.0	7,015.0	-757.1	371,207.00	605,658.20	32° 1' 12.374 N 103° 59' 32.716 W
- Point									
PBHL (Littlefield 33 Fed)	- actual wellpath misses target center by 25.2usft at 17006.0usft MD (10081.9 TVD, 7142.1 N, -774.5 E)	1.00	0.53	10,065.0	7,145.0	-755.9	371,337.00	605,659.40	32° 1' 13.661 N 103° 59' 32.697 W
- Rectangle (sides W60.0 H4,093.5 D30.0)									

Company:	Concho Resources, Inc.	Local Co-ordinate Reference:	Well Littlefield 33 Fed Com #706H
Project:	Eddy County (NAD27 NME)	TVD Reference:	KB @ 2891.4usft (Precision 106)
Site:	(Littlefield 33 Fed Com) Sec 33_T 26-S_R 29-E	MD Reference:	KB @ 2891.4usft (Precision 106)
Well:	Littlefield 33 Fed Com #706H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
478.0	478.0	Rustler			
631.1	631.0	TOS			
2,641.2	2,632.0	BOS (Fletcher)			
2,826.8	2,817.0	LMAR (Top Delaware)			
2,860.0	2,850.0	BLCN			
3,745.2	3,727.0	CYCN			
5,023.0	4,996.0	BYCN			
6,543.4	6,509.0	Bone Sprg (BSGL)			
6,743.4	6,708.0	U Avalon Sh			
7,141.1	7,105.0	L Avalon Sh			
7,463.3	7,426.0	FBSG_sand			
8,197.8	8,155.0	SBSG_sand			
8,621.1	8,575.0	SBSG_sand base			
9,337.2	9,290.0	TBSG_sand			
9,720.0	9,659.0	WFMP			

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
9,300.0	9,252.8	-83.0	-848.9	Tie to SDI Gyro
9,803.6	9,727.8	27.8	-843.1	FTP @ 9803.6'MD, 330'FSL & 1119'FEL
16,878.2	10,069.3	7,015.1	-768.0	LTP @ 16878.2'MD, 330'FNL & 1149'FEL
16,942.0	10,075.4	7,078.5	-771.1	LAST SVY
17,006.0	10,081.9	7,142.1	-774.5	Projection to TD @ 17006'MD, 203'FNL & 1157'FEL

Checked By: _____ Approved By: _____ Date: _____