



CONCHO

RECEIVED

JUL 08 2019

DISTRICT II-ARTESIA O.C.D.

Concho Resources, Inc.

Eddy County (NAD27 NME)

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

Littlefield 33 Fed Com #808H

API# 30-015-45169

OWB

Design: AWB

Standard Survey Report

16 January, 2019

INTREPID

Company:	Concho Resources, Inc.	Local Co-ordinate Reference:	Well-Littlefield 33 Fed Com #808H
Project:	Eddy County (NAD27 NME)	TVD Reference:	KB @ 2888.5usft (Latshaw 44)
Site:	(Littlefield 33 Fed Com) Sec-33 T-26-S R-29-E	MD Reference:	KB @ 2888.5usft (Latshaw 44)
Well:	Littlefield 33 Fed Com #808H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

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

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

Well	Littlefield 33 Fed Com #808H		
Well Position	+N-S	0.0 usft	Northing: 364,137.91 usft
	+E-W	0.0 usft	Easting: 604,820.40 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
			Ground Level: 2,863.5 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	IGRF2015	10/16/18	(°) 6.99	(°) 59.77	(nT) 47,628.04701589

Design	AWB				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N-S	+E-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.0	0.0	0.0	359.57	

Survey Program	Date: 01/16/19				
From	To	Survey (Wellbore)	Tool Name	Description	
(usft)	(usft)				
100.0	10,110.0	SDI Gyro (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4	
10,196.0	18,005.0	Intrepid MWD Crv/Lat (OWB)	MWD+IFR1+MS	MWD + IFR1 + Multi-Station Correction	

Survey										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N-S	+E-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate	
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
100.0	0.65	194.84	100.0	-0.5	-0.1	-0.5	0.65	0.65	0.00	
125.0	0.56	207.05	125.0	-0.8	-0.2	-0.8	0.63	-0.36	48.84	
150.0	0.86	198.80	150.0	-1.1	-0.4	-1.1	1.26	1.20	-33.00	
175.0	0.84	200.93	175.0	-1.4	-0.5	-1.4	0.15	-0.08	8.52	
200.0	0.97	191.25	200.0	-1.8	-0.6	-1.8	0.80	0.52	-38.72	
225.0	1.36	181.30	225.0	-2.3	-0.6	-2.3	1.75	1.56	-39.80	
250.0	1.59	175.67	250.0	-3.0	-0.6	-2.9	1.09	0.92	-22.52	
275.0	1.76	175.39	275.0	-3.7	-0.6	-3.7	0.68	0.68	-1.12	
300.0	1.75	175.60	300.0	-4.4	-0.5	-4.4	0.05	-0.04	0.84	

Company:	Concho Resources, Inc.	Local Co-ordinate Reference:	Well Littlefield 33 Fed Com #808H
Project:	Eddy County (NAD27 NME)	TVD Reference:	KB @ 2888.5usft (Latshaw 44)
Site:	(Littlefield 33 Fed Com) Sec-33, T-26-S, R-29-E	MD Reference:	KB @ 2888.5usft (Latshaw 44)
Well:	Littlefield 33 Fed Com #808H	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	1.78	176.21	324.9	-5.2	-0.4	-5.2	0.14	0.12	2.44
350.0	1.78	176.90	349.9	-6.0	-0.4	-6.0	0.09	0.00	2.76
375.0	1.78	174.91	374.9	-6.8	-0.3	-6.8	0.25	0.00	-7.96
400.0	1.93	169.04	399.9	-7.6	-0.2	-7.6	0.97	0.60	-23.48
425.0	2.19	163.17	424.9	-8.4	0.0	-8.4	1.34	1.04	-23.48
450.0	2.39	154.99	449.9	-9.4	0.4	-9.4	1.53	0.80	-32.72
475.0	2.65	150.88	474.8	-10.3	0.9	-10.3	1.27	1.04	-16.44
500.0	2.89	145.95	499.8	-11.4	1.5	-11.4	1.35	0.96	-19.72
525.0	3.02	146.45	524.8	-12.4	2.2	-12.5	0.53	0.52	2.00
550.0	3.10	145.98	549.7	-13.5	2.9	-13.6	0.34	0.32	-1.88
575.0	3.32	148.91	574.7	-14.7	3.7	-14.8	1.10	0.88	11.72
600.0	3.41	149.77	599.7	-16.0	4.4	-16.0	0.41	0.36	3.44
625.0	3.52	150.42	624.6	-17.3	5.2	-17.3	0.47	0.44	2.60
650.0	3.46	151.41	649.6	-18.6	5.9	-18.7	0.34	-0.24	3.96
675.0	3.48	150.87	674.5	-20.0	6.7	-20.0	0.15	0.08	-2.16
700.0	3.45	153.80	699.5	-21.3	7.4	-21.3	0.72	-0.12	11.72
725.0	3.51	159.17	724.4	-22.7	8.0	-22.7	1.33	0.24	21.48
750.0	3.59	161.33	749.4	-24.1	8.5	-24.2	0.62	0.32	8.64
775.0	3.72	169.56	774.3	-25.7	8.9	-25.7	2.16	0.52	32.92
800.0	3.74	178.29	799.3	-27.3	9.1	-27.4	2.27	0.08	34.92
825.0	4.08	184.08	824.2	-29.0	9.0	-29.1	2.08	1.36	23.16
850.0	4.21	191.17	849.2	-30.8	8.8	-30.8	2.11	0.52	28.36
875.0	4.62	204.48	874.1	-32.6	8.2	-32.7	4.40	1.64	53.24
900.0	4.92	211.08	899.0	-34.4	7.2	-34.5	2.50	1.20	26.40
925.0	5.32	217.21	923.9	-36.3	6.0	-36.3	2.71	1.60	24.52
950.0	5.73	223.25	948.8	-38.1	4.4	-38.1	2.84	1.64	24.16
975.0	5.84	232.81	973.7	-39.8	2.5	-39.8	3.87	0.44	38.24
1,000.0	6.18	235.88	998.5	-41.3	0.4	-41.3	1.87	1.36	12.28
1,025.0	6.02	237.23	1,023.4	-42.8	-1.8	-42.8	0.86	-0.64	5.40
1,050.0	5.96	236.52	1,048.2	-44.2	-4.0	-44.2	0.38	-0.24	-2.84
1,075.0	5.93	237.74	1,073.1	-45.6	-6.2	-45.6	0.52	-0.12	4.88
1,100.0	5.81	236.86	1,098.0	-47.0	-8.3	-46.9	0.60	-0.48	-3.52
1,125.0	5.78	236.00	1,122.8	-48.4	-10.4	-48.3	0.37	-0.12	-3.44
1,150.0	5.59	235.16	1,147.7	-49.8	-12.5	-49.7	0.83	-0.76	-3.36
1,175.0	5.35	232.79	1,172.6	-51.2	-14.4	-51.1	1.32	-0.96	-9.48
1,200.0	5.18	230.37	1,197.5	-52.6	-16.2	-52.5	1.12	-0.68	-9.68
1,225.0	5.10	229.24	1,222.4	-54.0	-17.9	-53.9	0.52	-0.32	-4.52
1,250.0	5.06	230.04	1,247.3	-55.5	-19.6	-55.3	0.33	-0.16	3.20
1,275.0	5.07	230.05	1,272.2	-56.9	-21.3	-56.7	0.04	0.04	0.04
1,300.0	5.11	229.98	1,297.1	-58.3	-23.0	-58.2	0.16	0.16	-0.28
1,325.0	5.03	230.02	1,322.0	-59.7	-24.7	-59.6	0.32	-0.32	0.16
1,350.0	4.85	229.28	1,346.9	-61.1	-26.3	-60.9	0.76	-0.72	-2.96
1,375.0	4.60	228.50	1,371.8	-62.5	-27.9	-62.3	1.03	-1.00	-3.12

Company:	Goncho Resources, Inc.	Local Co-ordinate Reference:	Well Littlefield 33 Fed Com #808H
Project:	Eddy County (NAD27 NME)	TVD Reference:	KB @ 2888.5usft (Latshaw 44)
Site:	(Littlefield 33 Fed Com) Sec-33_T-26-S_R-29-E	MD Reference:	KB @ 2888.5usft (Latshaw 44)
Well:	Littlefield 33 Fed Com #808H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,400.0	4.47	227.51	1,396.8	-63.8	-29.3	-63.6	0.61	-0.52	-3.96
1,425.0	4.39	228.06	1,421.7	-65.1	-30.8	-64.9	0.36	-0.32	2.20
1,450.0	4.12	226.90	1,446.6	-66.4	-32.1	-66.1	1.13	-1.08	-4.64
1,475.0	4.04	227.08	1,471.5	-67.6	-33.4	-67.3	0.32	-0.32	0.72
1,500.0	3.98	228.63	1,496.5	-68.8	-34.7	-68.5	0.50	-0.24	6.20
1,525.0	3.71	229.47	1,521.4	-69.9	-36.0	-69.6	1.10	-1.08	3.36
1,550.0	3.41	232.59	1,546.4	-70.8	-37.2	-70.5	1.43	-1.20	12.48
1,575.0	2.97	232.95	1,571.3	-71.7	-38.3	-71.4	1.76	-1.76	1.44
1,600.0	2.78	231.74	1,596.3	-72.4	-39.3	-72.1	0.80	-0.76	-4.84
1,625.0	2.54	231.71	1,621.3	-73.2	-40.2	-72.9	0.96	-0.96	-0.12
1,650.0	2.40	226.40	1,646.3	-73.9	-41.0	-73.5	1.07	-0.56	-21.24
1,675.0	2.21	228.59	1,671.2	-74.5	-41.8	-74.2	0.84	-0.76	8.76
1,700.0	2.05	229.50	1,696.2	-75.1	-42.5	-74.8	0.65	-0.64	3.64
1,725.0	1.90	231.29	1,721.2	-75.7	-43.1	-75.4	0.65	-0.60	7.16
1,750.0	1.93	232.96	1,746.2	-76.2	-43.8	-75.9	0.25	0.12	6.68
1,775.0	1.93	233.28	1,771.2	-76.7	-44.5	-76.4	0.04	0.00	1.28
1,800.0	2.14	237.79	1,796.2	-77.2	-45.2	-76.9	1.06	0.84	18.04
1,825.0	2.61	240.60	1,821.1	-77.7	-46.1	-77.4	1.94	1.88	11.24
1,850.0	2.74	241.33	1,846.1	-78.3	-47.1	-78.0	0.54	0.52	2.92
1,875.0	2.66	243.12	1,871.1	-78.9	-48.1	-78.5	0.46	-0.32	7.16
1,900.0	2.62	246.11	1,896.1	-79.4	-49.2	-79.0	0.57	-0.16	11.96
1,925.0	2.62	245.37	1,921.0	-79.8	-50.2	-79.4	0.14	0.00	-2.96
1,950.0	2.50	244.86	1,946.0	-80.3	-51.2	-79.9	0.49	-0.48	-2.04
1,975.0	2.56	248.14	1,971.0	-80.7	-52.2	-80.3	0.63	0.24	13.12
2,000.0	2.50	245.87	1,996.0	-81.2	-53.3	-80.8	0.47	-0.24	-9.08
2,025.0	2.06	243.16	2,020.9	-81.6	-54.2	-81.2	1.81	-1.76	-10.84
2,050.0	1.37	233.48	2,045.9	-82.0	-54.8	-81.6	2.98	-2.76	-38.72
2,075.0	1.35	227.12	2,070.9	-82.3	-55.3	-81.9	0.61	-0.08	-25.44
2,100.0	1.17	207.71	2,095.9	-82.8	-55.6	-82.4	1.84	-0.72	-77.64
2,125.0	1.01	177.45	2,120.9	-83.2	-55.7	-82.8	2.36	-0.64	-121.04
2,150.0	1.37	174.44	2,145.9	-83.7	-55.7	-83.3	1.46	1.44	-12.04
2,175.0	1.29	174.18	2,170.9	-84.3	-55.6	-83.9	0.32	-0.32	-1.04
2,200.0	1.79	169.63	2,195.9	-85.0	-55.5	-84.6	2.06	2.00	-18.20
2,225.0	2.34	170.65	2,220.9	-85.9	-55.4	-85.4	2.20	2.20	4.08
2,250.0	2.65	169.96	2,245.9	-86.9	-55.2	-86.5	1.25	1.24	-2.76
2,275.0	2.46	165.54	2,270.8	-88.0	-54.9	-87.6	1.09	-0.76	-17.68
2,300.0	2.35	160.18	2,295.8	-89.0	-54.6	-88.6	1.00	-0.44	-21.44
2,325.0	2.33	161.34	2,320.8	-90.0	-54.3	-89.6	0.21	-0.08	4.64
2,350.0	2.42	161.51	2,345.8	-91.0	-54.0	-90.6	0.36	0.36	0.68
2,375.0	2.27	157.43	2,370.7	-91.9	-53.6	-91.5	0.90	-0.60	-16.32
2,400.0	2.23	157.45	2,395.7	-92.8	-53.2	-92.4	0.16	-0.16	0.08
2,425.0	2.32	159.47	2,420.7	-93.8	-52.9	-93.4	0.48	0.36	8.08
2,450.0	2.28	158.01	2,445.7	-94.7	-52.5	-94.3	0.28	-0.16	-5.84

Company:	Concho Resources, Inc.	Local Co-ordinate Reference:	Well Littlefield 33 Fed Com #808H
Project:	Eddy County (NAD27 NME)	TVD Reference:	KB @ 2888.5usft (Latshaw 44)
Site:	(Littlefield 33 Fed Com) Sec-33 T-26-S R-29-E	MD Reference:	KB @ 2888.5usft (Latshaw 44)
Well:	Littlefield 33 Fed Com #808H	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)
2,475.0	2.26	158.56	2,470.7	-95.6	-52.1	-95.2	0.12	-0.08	2.20
2,500.0	2.16	158.33	2,495.6	-96.5	-51.8	-96.1	0.40	-0.40	-0.92
2,525.0	2.12	160.90	2,520.6	-97.4	-51.5	-97.0	0.42	-0.16	10.28
2,550.0	1.98	171.30	2,545.6	-98.3	-51.2	-97.9	1.59	-0.56	41.60
2,575.0	2.23	200.48	2,570.6	-99.1	-51.3	-98.7	4.35	1.00	116.72
2,600.0	2.48	215.84	2,595.6	-100.0	-51.8	-99.6	2.71	1.00	61.44
2,625.0	2.58	214.50	2,620.6	-100.9	-52.5	-100.5	0.46	0.40	-5.36
2,650.0	2.61	213.76	2,645.5	-101.9	-53.1	-101.5	0.18	0.12	-2.96
2,675.0	2.51	212.66	2,670.5	-102.8	-53.7	-102.4	0.45	-0.40	-4.40
2,700.0	2.39	211.83	2,695.5	-103.7	-54.3	-103.3	0.50	-0.48	-3.32
2,725.0	2.44	209.03	2,720.5	-104.6	-54.8	-104.2	0.51	0.20	-11.20
2,750.0	2.39	210.22	2,745.4	-105.5	-55.3	-105.1	0.28	-0.20	4.76
2,775.0	2.21	211.37	2,770.4	-106.4	-55.8	-106.0	0.74	-0.72	4.60
2,800.0	2.29	211.11	2,795.4	-107.2	-56.4	-106.8	0.32	0.32	-1.04
2,825.0	2.32	217.06	2,820.4	-108.1	-56.9	-107.6	0.96	0.12	23.80
2,850.0	2.26	233.66	2,845.4	-108.8	-57.6	-108.3	2.65	-0.24	66.40
2,875.0	2.34	237.58	2,870.3	-109.3	-58.5	-108.9	0.71	0.32	15.68
2,900.0	2.40	242.78	2,895.3	-109.8	-59.3	-109.4	0.89	0.24	20.80
2,925.0	2.46	246.01	2,920.3	-110.3	-60.3	-109.8	0.60	0.24	12.92
2,950.0	2.54	248.86	2,945.3	-110.7	-61.3	-110.2	0.59	0.32	11.40
2,975.0	2.53	246.86	2,970.2	-111.1	-62.3	-110.7	0.36	-0.04	-8.00
3,000.0	2.56	245.85	2,995.2	-111.6	-63.4	-111.1	0.22	0.12	-4.04
3,025.0	2.63	247.67	3,020.2	-112.0	-64.4	-111.5	0.43	0.28	7.28
3,050.0	2.53	246.58	3,045.2	-112.5	-65.4	-112.0	0.45	-0.40	-4.36
3,075.0	2.60	246.05	3,070.1	-112.9	-66.5	-112.4	0.30	0.28	-2.12
3,100.0	2.53	250.12	3,095.1	-113.3	-67.5	-112.8	0.78	-0.28	16.28
3,125.0	2.65	248.87	3,120.1	-113.7	-68.5	-113.2	0.53	0.48	-5.00
3,150.0	2.51	247.65	3,145.1	-114.1	-69.6	-113.6	0.60	-0.56	-4.88
3,175.0	2.67	247.60	3,170.0	-114.6	-70.6	-114.0	0.64	0.64	-0.20
3,200.0	2.60	249.11	3,195.0	-115.0	-71.7	-114.4	0.39	-0.28	6.04
3,225.0	2.65	247.56	3,220.0	-115.4	-72.8	-114.9	0.35	0.20	-6.20
3,250.0	2.64	247.36	3,245.0	-115.9	-73.8	-115.3	0.05	-0.04	-0.80
3,275.0	2.60	249.12	3,269.9	-116.3	-74.9	-115.7	0.36	-0.16	7.04
3,300.0	2.49	248.44	3,294.9	-116.7	-75.9	-116.1	0.46	-0.44	-2.72
3,325.0	2.51	248.83	3,319.9	-117.1	-76.9	-116.5	0.11	0.08	1.56
3,350.0	2.52	249.68	3,344.9	-117.5	-78.0	-116.9	0.15	0.04	3.40
3,375.0	2.47	248.72	3,369.8	-117.9	-79.0	-117.3	0.26	-0.20	-3.84
3,400.0	2.53	248.62	3,394.8	-118.3	-80.0	-117.6	0.24	0.24	-0.40
3,425.0	2.60	248.56	3,419.8	-118.7	-81.0	-118.0	0.28	0.28	-0.24
3,450.0	2.63	249.91	3,444.8	-119.1	-82.1	-118.4	0.27	0.12	5.40
3,475.0	2.56	248.64	3,469.7	-119.5	-83.2	-118.8	0.36	-0.28	-5.08
3,500.0	2.58	250.10	3,494.7	-119.9	-84.2	-119.2	0.27	0.08	5.84
3,525.0	2.45	249.14	3,519.7	-120.2	-85.2	-119.6	0.55	-0.52	-3.84
3,550.0	2.53	249.73	3,544.7	-120.6	-86.3	-120.0	0.34	0.32	2.36

Company:	Concho Resources, Inc.	Local Co-ordinate Reference:	Well: Littlefield 33 Fed Com #808H
Project:	Eddy County (NAD27-NME)	TVD Reference:	KB @ 2888.5usft (Latshaw 44)
Site:	(Littlefield 33 Fed Com) Sec-33, T-26-S, R-29-E	MD Reference:	KB @ 2888.5usft (Latshaw 44)
Well:	Littlefield 33 Fed Com #808H	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)
3,575.0	2.44	247.49	3,569.6	-121.0	-87.3	-120.4	0.53	-0.36	-8.96
3,600.0	2.47	245.35	3,594.6	-121.4	-88.3	-120.8	0.39	0.12	-8.56
3,625.0	2.48	246.04	3,619.6	-121.9	-89.2	-121.2	0.13	0.04	2.76
3,650.0	2.45	244.20	3,644.6	-122.3	-90.2	-121.7	0.34	-0.12	-7.36
3,675.0	2.47	243.31	3,669.5	-122.8	-91.2	-122.1	0.17	0.08	-3.56
3,700.0	2.52	243.60	3,694.5	-123.3	-92.2	-122.6	0.21	0.20	1.16
3,725.0	2.46	244.70	3,719.5	-123.8	-93.1	-123.1	0.31	-0.24	4.40
3,750.0	2.47	246.00	3,744.5	-124.2	-94.1	-123.5	0.23	0.04	5.20
3,775.0	2.48	244.11	3,769.5	-124.7	-95.1	-124.0	0.33	0.04	-7.56
3,800.0	2.48	243.24	3,794.4	-125.2	-96.1	-124.4	0.15	0.00	-3.48
3,825.0	2.49	244.20	3,819.4	-125.6	-97.0	-124.9	0.17	0.04	3.84
3,850.0	2.61	244.55	3,844.4	-126.1	-98.0	-125.4	0.48	0.48	1.40
3,875.0	2.54	245.87	3,869.4	-126.6	-99.0	-125.8	0.37	-0.28	5.28
3,900.0	2.48	244.91	3,894.3	-127.0	-100.0	-126.3	0.29	-0.24	-3.84
3,925.0	2.57	243.34	3,919.3	-127.5	-101.0	-126.8	0.45	0.36	-6.28
3,950.0	2.58	243.70	3,944.3	-128.0	-102.0	-127.3	0.08	0.04	1.44
3,975.0	2.50	243.62	3,969.3	-128.5	-103.0	-127.7	0.32	-0.32	-0.32
4,000.0	2.60	245.40	3,994.2	-129.0	-104.0	-128.2	0.51	0.40	7.12
4,025.0	2.66	244.32	4,019.2	-129.5	-105.1	-128.7	0.31	0.24	-4.32
4,050.0	2.57	244.94	4,044.2	-130.0	-106.1	-129.2	0.38	-0.36	2.48
4,075.0	2.53	243.14	4,069.2	-130.5	-107.1	-129.7	0.36	-0.16	-7.20
4,100.0	2.58	243.91	4,094.1	-131.0	-108.1	-130.1	0.24	0.20	3.08
4,125.0	2.59	245.02	4,119.1	-131.4	-109.1	-130.6	0.20	0.04	4.44
4,150.0	2.48	246.85	4,144.1	-131.9	-110.1	-131.1	0.55	-0.44	7.32
4,175.0	2.23	251.94	4,169.1	-132.3	-111.1	-131.4	1.30	-1.00	20.36
4,200.0	1.60	271.86	4,194.0	-132.4	-111.9	-131.6	3.63	-2.52	79.68
4,225.0	1.37	275.84	4,219.0	-132.4	-112.5	-131.5	1.01	-0.92	15.92
4,250.0	1.43	273.64	4,244.0	-132.3	-113.2	-131.5	0.32	0.24	-8.80
4,275.0	1.46	273.61	4,269.0	-132.3	-113.8	-131.4	0.12	0.12	-0.12
4,300.0	1.43	276.05	4,294.0	-132.2	-114.4	-131.3	0.27	-0.12	9.76
4,325.0	1.35	275.23	4,319.0	-132.2	-115.0	-131.3	0.33	-0.32	-3.28
4,350.0	1.39	272.99	4,344.0	-132.1	-115.6	-131.2	0.27	0.16	-8.96
4,375.0	1.46	273.88	4,369.0	-132.1	-116.2	-131.2	0.29	0.28	3.56
4,400.0	1.47	272.84	4,394.0	-132.0	-116.9	-131.2	0.11	0.04	-4.16
4,425.0	1.44	275.12	4,419.0	-132.0	-117.5	-131.1	0.26	-0.12	9.12
4,450.0	1.14	271.40	4,444.0	-132.0	-118.1	-131.1	1.25	-1.20	-14.88
4,475.0	0.89	268.72	4,469.0	-132.0	-118.5	-131.1	1.02	-1.00	-10.72
4,500.0	0.74	264.69	4,494.0	-132.0	-118.9	-131.1	0.64	-0.60	-16.12
4,525.0	0.68	267.85	4,519.0	-132.0	-119.2	-131.1	0.29	-0.24	12.64
4,550.0	0.68	259.96	4,544.0	-132.0	-119.5	-131.1	0.37	0.00	-31.56
4,575.0	0.77	259.09	4,569.0	-132.1	-119.8	-131.2	0.36	0.36	-3.48
4,600.0	0.85	264.68	4,594.0	-132.1	-120.1	-131.2	0.45	0.32	22.36
4,625.0	0.82	263.39	4,619.0	-132.2	-120.5	-131.3	0.14	-0.12	-5.16

Company:	Concho Resources, Inc.	Local Co-ordinate Reference:	Well: Littlefield 33 Fed Com #808H
Project:	Eddy County (NAD27 NME)	TVD Reference:	KB @ 2888.5usft (Latshaw 44)
Site:	(Littlefield 33 Fed Com) Sec 33 T-26 S R-29 E	MD Reference:	KB @ 2888.5usft (Latshaw 44)
Well:	Littlefield 33 Fed Com #808H	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)
4,650.0	0.81	264.15	4,644.0	-132.2	-120.8	-131.3	0.06	-0.04	3.04
4,675.0	0.77	260.12	4,669.0	-132.3	-121.2	-131.3	0.27	-0.16	-16.12
4,700.0	0.67	254.23	4,693.9	-132.3	-121.5	-131.4	0.50	-0.40	-23.56
4,725.0	0.72	255.19	4,718.9	-132.4	-121.8	-131.5	0.21	0.20	3.84
4,750.0	0.73	252.49	4,743.9	-132.5	-122.1	-131.6	0.14	0.04	-10.80
4,775.0	0.75	254.42	4,768.9	-132.6	-122.4	-131.7	0.13	0.08	7.72
4,800.0	0.76	254.24	4,793.9	-132.7	-122.7	-131.7	0.04	0.04	-0.72
4,825.0	0.78	248.87	4,818.9	-132.8	-123.0	-131.9	0.30	0.08	-21.48
4,850.0	0.62	247.31	4,843.9	-132.9	-123.3	-132.0	0.64	-0.64	-6.24
4,875.0	0.60	250.81	4,868.9	-133.0	-123.6	-132.1	0.17	-0.08	14.00
4,900.0	0.65	246.54	4,893.9	-133.1	-123.8	-132.2	0.27	0.20	-17.08
4,925.0	0.62	253.06	4,918.9	-133.2	-124.1	-132.2	0.31	-0.12	26.08
4,950.0	0.54	248.77	4,943.9	-133.3	-124.3	-132.3	0.36	-0.32	-17.16
4,975.0	0.63	254.91	4,968.9	-133.3	-124.6	-132.4	0.44	0.36	24.56
5,000.0	0.59	250.31	4,993.9	-133.4	-124.8	-132.5	0.25	-0.16	-18.40
5,025.0	0.59	254.50	5,018.9	-133.5	-125.1	-132.6	0.17	0.00	16.76
5,050.0	0.54	253.25	5,043.9	-133.6	-125.3	-132.6	0.21	-0.20	-5.00
5,075.0	0.54	247.33	5,068.9	-133.7	-125.5	-132.7	0.22	0.00	-23.68
5,100.0	0.60	249.11	5,093.9	-133.7	-125.7	-132.8	0.25	0.24	7.12
5,125.0	0.53	239.71	5,118.9	-133.9	-126.0	-132.9	0.46	-0.28	-37.60
5,150.0	0.56	242.33	5,143.9	-134.0	-126.2	-133.0	0.16	0.12	10.48
5,175.0	0.62	246.95	5,168.9	-134.1	-126.4	-133.1	0.31	0.24	18.48
5,200.0	0.77	253.09	5,193.9	-134.2	-126.7	-133.2	0.67	0.60	24.56
5,225.0	0.63	249.95	5,218.9	-134.3	-127.0	-133.3	0.58	-0.56	-12.56
5,250.0	0.64	248.48	5,243.9	-134.4	-127.2	-133.4	0.08	0.04	-5.88
5,275.0	0.76	250.62	5,268.9	-134.5	-127.5	-133.5	0.49	0.48	8.56
5,300.0	0.69	240.95	5,293.9	-134.6	-127.8	-133.6	0.56	-0.28	-38.68
5,325.0	0.72	239.08	5,318.9	-134.8	-128.1	-133.8	0.15	0.12	-7.48
5,350.0	0.77	248.14	5,343.9	-134.9	-128.4	-133.9	0.51	0.20	36.24
5,375.0	0.82	245.12	5,368.9	-135.0	-128.7	-134.1	0.26	0.20	-12.08
5,400.0	0.81	245.38	5,393.9	-135.2	-129.0	-134.2	0.04	-0.04	1.04
5,425.0	0.83	244.29	5,418.9	-135.3	-129.3	-134.4	0.10	0.08	-4.36
5,450.0	0.79	242.23	5,443.9	-135.5	-129.7	-134.5	0.20	-0.16	-8.24
5,475.0	0.79	240.67	5,468.9	-135.7	-130.0	-134.7	0.09	0.00	-6.24
5,500.0	0.79	240.99	5,493.9	-135.8	-130.3	-134.8	0.02	0.00	1.28
5,525.0	0.78	243.83	5,518.9	-136.0	-130.6	-135.0	0.16	-0.04	11.36
5,550.0	0.86	241.12	5,543.9	-136.2	-130.9	-135.2	0.36	0.32	-10.84
5,575.0	0.83	242.57	5,568.9	-136.3	-131.2	-135.3	0.15	-0.12	5.80
5,600.0	0.73	231.17	5,593.9	-136.5	-131.5	-135.5	0.74	-0.40	-45.60
5,625.0	0.76	230.96	5,618.9	-136.7	-131.7	-135.7	0.12	0.12	-0.84
5,650.0	0.68	222.24	5,643.9	-136.9	-132.0	-135.9	0.54	-0.32	-34.88
5,675.0	0.71	226.08	5,668.9	-137.2	-132.2	-136.1	0.22	0.12	15.36
5,700.0	0.73	226.32	5,693.9	-137.4	-132.4	-136.4	0.08	0.08	0.96

Company:	Concho Resources, Inc.	Local Co-ordinate Reference:	Well Littlefield 33 Fed Com #808H
Project:	Eddy County (NAD27-NME)	TVD Reference:	KB @ 2888.5usft (Latshaw 44)
Site:	(Littlefield 33 Fed Com) Sec-33_T-26-S_R-29-E	MD Reference:	KB @ 2888.5usft (Latshaw 44)
Well:	Littlefield 33 Fed Com #808H	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)
5,725.0	0.68	226.36	5,718.9	-137.6	-132.6	-136.6	0.20	-0.20	0.16
5,750.0	0.68	218.29	5,743.9	-137.8	-132.8	-136.8	0.38	0.00	-32.28
5,775.0	0.79	233.03	5,768.9	-138.0	-133.1	-137.0	0.87	0.44	58.96
5,800.0	0.84	231.79	5,793.9	-138.2	-133.3	-137.2	0.21	0.20	-4.96
5,825.0	0.77	231.15	5,818.9	-138.5	-133.6	-137.4	0.28	-0.28	-2.56
5,850.0	0.78	220.90	5,843.9	-138.7	-133.9	-137.7	0.56	0.04	-41.00
5,875.0	0.79	220.25	5,868.9	-138.9	-134.1	-137.9	0.05	0.04	-2.60
5,900.0	0.76	214.28	5,893.9	-139.2	-134.3	-138.2	0.34	-0.12	-23.88
5,925.0	0.80	216.01	5,918.9	-139.5	-134.5	-138.5	0.19	0.16	6.92
5,950.0	0.91	219.56	5,943.9	-139.8	-134.7	-138.8	0.49	0.44	14.20
5,975.0	0.96	219.86	5,968.8	-140.1	-135.0	-139.1	0.20	0.20	1.20
6,000.0	0.91	220.31	5,993.8	-140.4	-135.2	-139.4	0.20	-0.20	1.80
6,025.0	0.91	219.15	6,018.8	-140.7	-135.5	-139.7	0.07	0.00	-4.64
6,050.0	0.96	214.63	6,043.8	-141.0	-135.7	-140.0	0.36	0.20	-18.08
6,075.0	0.95	216.57	6,068.8	-141.4	-136.0	-140.4	0.14	-0.04	7.76
6,100.0	1.00	216.72	6,093.8	-141.7	-136.2	-140.7	0.20	0.20	0.60
6,125.0	0.97	214.68	6,118.8	-142.1	-136.5	-141.0	0.18	-0.12	-8.16
6,150.0	0.98	215.87	6,143.8	-142.4	-136.7	-141.4	0.09	0.04	4.76
6,175.0	0.98	217.03	6,168.8	-142.8	-137.0	-141.7	0.08	0.00	4.64
6,200.0	0.97	218.82	6,193.8	-143.1	-137.2	-142.1	0.13	-0.04	7.16
6,225.0	1.03	213.80	6,218.8	-143.5	-137.5	-142.4	0.42	0.24	-20.08
6,250.0	0.97	216.19	6,243.8	-143.8	-137.7	-142.8	0.29	-0.24	9.56
6,275.0	0.96	214.53	6,268.8	-144.2	-138.0	-143.1	0.12	-0.04	-6.64
6,300.0	1.00	219.39	6,293.8	-144.5	-138.3	-143.5	0.37	0.16	19.44
6,325.0	1.00	221.31	6,318.8	-144.8	-138.5	-143.8	0.13	0.00	7.68
6,350.0	0.69	219.87	6,343.8	-145.1	-138.8	-144.1	1.24	-1.24	-5.76
6,375.0	0.20	146.22	6,368.8	-145.3	-138.8	-144.2	2.65	-1.96	-294.60
6,400.0	0.65	66.81	6,393.8	-145.2	-138.7	-144.2	2.58	1.80	-317.64
6,425.0	0.85	69.00	6,418.8	-145.1	-138.4	-144.1	0.81	0.80	8.76
6,450.0	0.88	71.29	6,443.8	-145.0	-138.0	-143.9	0.18	0.12	9.16
6,475.0	0.82	70.32	6,468.8	-144.9	-137.7	-143.8	0.25	-0.24	-3.88
6,500.0	0.86	74.76	6,493.8	-144.8	-137.3	-143.7	0.31	0.16	17.76
6,525.0	0.80	67.94	6,518.8	-144.6	-137.0	-143.6	0.46	-0.24	-27.28
6,550.0	0.81	67.27	6,543.8	-144.5	-136.7	-143.5	0.05	0.04	-2.68
6,575.0	0.73	70.15	6,568.8	-144.4	-136.4	-143.4	0.36	-0.32	11.52
6,600.0	0.83	73.21	6,593.8	-144.3	-136.0	-143.3	0.43	0.40	12.24
6,625.0	0.87	84.90	6,618.8	-144.2	-135.7	-143.2	0.71	0.16	46.76
6,650.0	0.91	93.63	6,643.8	-144.2	-135.3	-143.2	0.56	0.16	34.92
6,675.0	0.93	99.13	6,668.8	-144.3	-134.9	-143.2	0.36	0.08	22.00
6,700.0	0.95	106.41	6,693.8	-144.3	-134.5	-143.3	0.48	0.08	29.12
6,725.0	0.95	107.77	6,718.8	-144.5	-134.1	-143.5	0.09	0.00	5.44
6,750.0	0.95	115.54	6,743.8	-144.6	-133.7	-143.6	0.51	0.00	31.08
6,775.0	0.96	115.79	6,768.8	-144.8	-133.3	-143.8	0.04	0.04	1.00
6,800.0	0.96	117.61	6,793.7	-145.0	-133.0	-144.0	0.12	0.00	7.28

Company:	Concho Resources, Inc.	Local Co-ordinate Reference:	Well Littlefield 33 Fed Com #808H
Project:	Eddy County (NAD27 NME)	TVD Reference:	KB @ 2888.5usft (Latshaw 44)
Site:	(Littlefield 33 Fed Com) Sec 33_T-26-S_R-29-E	MD Reference:	KB @ 2888.5usft (Latshaw 44)
Well:	Littlefield 33 Fed Com #808H	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)
6,825.0	1.01	119.41	6,818.7	-145.2	-132.6	-144.2	0.24	0.20	7.20
6,850.0	1.05	111.44	6,843.7	-145.4	-132.2	-144.4	0.59	0.16	-31.88
6,875.0	1.06	114.39	6,868.7	-145.6	-131.7	-144.6	0.22	0.04	11.80
6,900.0	1.01	118.31	6,893.7	-145.8	-131.3	-144.8	0.35	-0.20	15.68
6,925.0	1.00	117.50	6,918.7	-146.0	-131.0	-145.0	0.07	-0.04	-3.24
6,950.0	1.07	119.40	6,943.7	-146.2	-130.6	-145.2	0.31	0.28	7.60
6,975.0	1.18	117.35	6,968.7	-146.4	-130.1	-145.4	0.47	0.44	-8.20
7,000.0	1.05	120.75	6,993.7	-146.7	-129.7	-145.7	0.58	-0.52	13.60
7,025.0	0.98	119.54	7,018.7	-146.9	-129.3	-145.9	0.29	-0.28	-4.84
7,050.0	1.01	120.15	7,043.7	-147.1	-128.9	-146.1	0.13	0.12	2.44
7,075.0	0.96	114.67	7,068.7	-147.3	-128.6	-146.3	0.43	-0.20	-21.92
7,100.0	0.90	109.42	7,093.7	-147.4	-128.2	-146.5	0.42	-0.24	-21.00
7,125.0	0.83	98.85	7,118.7	-147.5	-127.8	-146.6	0.70	-0.28	-42.28
7,150.0	0.80	97.84	7,143.7	-147.6	-127.5	-146.6	0.13	-0.12	-4.04
7,175.0	0.73	99.21	7,168.7	-147.6	-127.1	-146.7	0.29	-0.28	5.48
7,200.0	0.62	89.42	7,193.7	-147.7	-126.8	-146.7	0.64	-0.44	-39.16
7,225.0	0.50	76.69	7,218.7	-147.6	-126.6	-146.7	0.69	-0.48	-50.92
7,250.0	0.46	49.16	7,243.7	-147.5	-126.4	-146.6	0.93	-0.16	-110.12
7,275.0	0.43	52.47	7,268.7	-147.4	-126.3	-146.5	0.16	-0.12	13.24
7,300.0	0.43	55.58	7,293.7	-147.3	-126.1	-146.4	0.09	0.00	12.44
7,325.0	0.46	49.98	7,318.7	-147.2	-126.0	-146.2	0.21	0.12	-22.40
7,350.0	0.41	45.37	7,343.7	-147.1	-125.8	-146.1	0.24	-0.20	-18.44
7,375.0	0.40	71.56	7,368.7	-147.0	-125.7	-146.0	0.74	-0.04	104.76
7,400.0	0.58	100.25	7,393.7	-147.0	-125.5	-146.0	1.20	0.72	114.76
7,425.0	0.76	112.40	7,418.7	-147.1	-125.2	-146.1	0.91	0.72	48.60
7,450.0	1.02	114.51	7,443.7	-147.2	-124.8	-146.3	1.05	1.04	8.44
7,475.0	1.14	116.84	7,468.7	-147.4	-124.4	-146.5	0.51	0.48	9.32
7,500.0	1.30	122.40	7,493.7	-147.7	-124.0	-146.7	0.80	0.64	22.24
7,525.0	1.35	117.17	7,518.7	-148.0	-123.5	-147.0	0.52	0.20	-20.92
7,550.0	1.32	118.36	7,543.7	-148.2	-122.9	-147.3	0.16	-0.12	4.76
7,575.0	1.34	117.24	7,568.6	-148.5	-122.4	-147.6	0.13	0.08	-4.48
7,600.0	1.27	117.36	7,593.6	-148.8	-121.9	-147.8	0.28	-0.28	0.48
7,625.0	1.13	120.29	7,618.6	-149.0	-121.5	-148.1	0.61	-0.56	11.72
7,650.0	0.86	117.80	7,643.6	-149.2	-121.1	-148.3	1.09	-1.08	-9.96
7,675.0	0.81	123.26	7,668.6	-149.4	-120.8	-148.5	0.38	-0.20	21.84
7,700.0	0.61	134.11	7,693.6	-149.6	-120.5	-148.7	0.96	-0.80	43.40
7,725.0	0.41	147.87	7,718.6	-149.8	-120.4	-148.9	0.93	-0.80	55.04
7,750.0	0.37	166.32	7,743.6	-149.9	-120.3	-149.0	0.52	-0.16	73.80
7,775.0	0.30	180.90	7,768.6	-150.1	-120.3	-149.2	0.44	-0.28	58.32
7,800.0	0.31	189.83	7,793.6	-150.2	-120.3	-149.3	0.19	0.04	35.72
7,825.0	0.33	182.36	7,818.6	-150.3	-120.3	-149.4	0.18	0.08	-29.88
7,850.0	0.34	180.91	7,843.6	-150.5	-120.3	-149.6	0.05	0.04	-5.80
7,875.0	0.33	188.76	7,868.6	-150.6	-120.3	-149.7	0.19	-0.04	31.40

Company:	Concho Resources, Inc.	Local Co-ordinate Reference:	Well Littlefield 33 Fed Com #808H
Project:	Eddy County (NAD27 NME)	TVD Reference:	KB @ 2888.5usft (Latshaw 44)
Site:	(Littlefield 33 Fed Com) Sec.33_T-26-S_R-29-E	MD Reference:	KB @ 2888.5usft (Latshaw 44)
Well:	Littlefield 33 Fed Com #808H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
7,900.0	0.35	213.67	7,893.6	-150.8	-120.4	-149.9	0.59	0.08	99.64	
7,925.0	0.40	239.42	7,918.6	-150.9	-120.5	-150.0	0.70	0.20	103.00	
7,950.0	0.56	249.56	7,943.6	-151.0	-120.7	-150.0	0.72	0.64	40.56	
7,975.0	0.69	258.30	7,968.6	-151.0	-121.0	-150.1	0.64	0.52	34.96	
8,000.0	0.73	265.53	7,993.6	-151.1	-121.3	-150.2	0.39	0.16	28.92	
8,025.0	0.74	257.80	8,018.6	-151.1	-121.6	-150.2	0.40	0.04	-30.92	
8,050.0	0.81	261.85	8,043.6	-151.2	-121.9	-150.3	0.36	0.28	16.20	
8,075.0	0.81	267.98	8,068.6	-151.2	-122.3	-150.3	0.35	0.00	24.52	
8,100.0	0.72	257.40	8,093.6	-151.3	-122.6	-150.3	0.67	-0.36	-42.32	
8,125.0	0.67	249.43	8,118.6	-151.3	-122.9	-150.4	0.43	-0.20	-31.88	
8,150.0	0.64	243.74	8,143.6	-151.5	-123.1	-150.5	0.29	-0.12	-22.76	
8,175.0	0.49	228.22	8,168.6	-151.6	-123.4	-150.7	0.85	-0.60	-62.08	
8,200.0	0.53	187.84	8,193.6	-151.8	-123.4	-150.8	1.42	0.16	-161.52	
8,225.0	0.61	180.64	8,218.6	-152.0	-123.5	-151.1	0.43	0.32	-28.80	
8,250.0	0.67	172.22	8,243.6	-152.3	-123.4	-151.4	0.45	0.24	-33.68	
8,275.0	0.65	172.58	8,268.6	-152.6	-123.4	-151.7	0.08	-0.08	1.44	
8,300.0	0.61	173.41	8,293.6	-152.9	-123.4	-151.9	0.16	-0.16	3.32	
8,325.0	0.64	173.02	8,318.6	-153.1	-123.3	-152.2	0.12	0.12	-1.56	
8,350.0	0.59	178.11	8,343.6	-153.4	-123.3	-152.5	0.30	-0.20	20.36	
8,375.0	0.67	172.81	8,368.6	-153.7	-123.3	-152.7	0.40	0.32	-21.20	
8,400.0	0.69	175.94	8,393.6	-154.0	-123.3	-153.0	0.17	0.08	12.52	
8,425.0	0.72	179.60	8,418.6	-154.3	-123.3	-153.3	0.22	0.12	14.64	
8,450.0	0.81	180.97	8,443.6	-154.6	-123.3	-153.7	0.37	0.36	5.48	
8,475.0	0.77	187.34	8,468.6	-154.9	-123.3	-154.0	0.39	-0.16	25.48	
8,500.0	0.73	188.60	8,493.6	-155.3	-123.3	-154.3	0.17	-0.16	5.04	
8,525.0	0.85	189.58	8,518.6	-155.6	-123.4	-154.7	0.48	0.48	3.92	
8,550.0	0.98	195.12	8,543.6	-156.0	-123.5	-155.1	0.63	0.52	22.16	
8,575.0	1.10	195.87	8,568.6	-156.4	-123.6	-155.5	0.48	0.48	3.00	
8,600.0	1.15	198.19	8,593.6	-156.9	-123.7	-156.0	0.27	0.20	9.28	
8,625.0	1.19	199.22	8,618.6	-157.4	-123.9	-156.5	0.18	0.16	4.12	
8,650.0	1.21	202.66	8,643.6	-157.9	-124.1	-156.9	0.30	0.08	13.76	
8,675.0	1.35	209.14	8,668.6	-158.4	-124.3	-157.4	0.80	0.56	25.92	
8,700.0	1.35	212.06	8,693.5	-158.9	-124.6	-157.9	0.28	0.00	11.68	
8,725.0	1.53	217.16	8,718.5	-159.4	-125.0	-158.5	0.88	0.72	20.40	
8,750.0	1.69	219.42	8,743.5	-160.0	-125.4	-159.0	0.69	0.64	9.04	
8,775.0	1.73	217.15	8,768.5	-160.5	-125.9	-159.6	0.31	0.16	-9.08	
8,800.0	1.81	217.72	8,793.5	-161.2	-126.4	-160.2	0.33	0.32	2.28	
8,825.0	1.73	224.34	8,818.5	-161.7	-126.9	-160.8	0.88	-0.32	26.48	
8,850.0	1.49	232.69	8,843.5	-162.2	-127.4	-161.2	1.34	-0.96	33.40	
8,875.0	1.47	241.09	8,868.5	-162.6	-127.9	-161.6	0.87	-0.08	33.60	
8,900.0	1.48	240.43	8,893.5	-162.9	-128.5	-161.9	0.08	0.04	-2.64	
8,925.0	1.48	241.70	8,918.5	-163.2	-129.1	-162.2	0.13	0.00	5.08	
8,950.0	1.47	241.21	8,943.4	-163.5	-129.6	-162.5	0.06	-0.04	-1.96	

Company:	Concho Resources, Inc.	Local Co-ordinate Reference:	Well: Littlefield 33 Fed Com #808H
Project:	Eddy County (NAD27 NME)	TVD Reference:	KB @ 2888.5usft (Latshaw 44)
Site:	(Littlefield 33 Fed Com) Sec-33_T-26-S_R-29-E	MD Reference:	KB @ 2888.5usft (Latshaw 44)
Well:	Littlefield 33 Fed Com #808H	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)
8,975.0	1.46	240.15	8,968.4	-163.8	-130.2	-162.8	0.12	-0.04	-4.24
9,000.0	1.48	241.08	8,993.4	-164.1	-130.7	-163.1	0.12	0.08	3.72
9,025.0	1.51	241.45	9,018.4	-164.4	-131.3	-163.4	0.13	0.12	1.48
9,050.0	1.44	241.68	9,043.4	-164.7	-131.9	-163.7	0.28	-0.28	0.92
9,075.0	1.56	240.12	9,068.4	-165.1	-132.4	-164.1	0.51	0.48	-6.24
9,100.0	1.50	233.62	9,093.4	-165.4	-133.0	-164.4	0.73	-0.24	-26.00
9,125.0	1.52	229.06	9,118.4	-165.8	-133.5	-164.8	0.49	0.08	-18.24
9,150.0	1.60	220.53	9,143.4	-166.3	-134.0	-165.3	0.98	0.32	-34.12
9,175.0	1.60	221.47	9,168.4	-166.8	-134.4	-165.8	0.10	0.00	3.76
9,200.0	1.66	220.72	9,193.4	-167.4	-134.9	-166.4	0.25	0.24	-3.00
9,225.0	1.71	220.73	9,218.4	-167.9	-135.4	-166.9	0.20	0.20	0.04
9,250.0	1.72	220.65	9,243.3	-168.5	-135.9	-167.5	0.04	0.04	-0.32
9,275.0	1.73	223.40	9,268.3	-169.1	-136.4	-168.0	0.33	0.04	11.00
9,300.0	1.62	214.84	9,293.3	-169.6	-136.8	-168.6	1.09	-0.44	-34.24
9,325.0	1.10	201.14	9,318.3	-170.1	-137.1	-169.1	2.44	-2.08	-54.80
9,350.0	0.96	187.98	9,343.3	-170.6	-137.3	-169.5	1.10	-0.56	-52.64
9,375.0	0.90	180.86	9,368.3	-171.0	-137.3	-169.9	0.52	-0.24	-28.48
9,400.0	0.45	140.19	9,393.3	-171.2	-137.2	-170.2	2.52	-1.80	-162.68
9,425.0	0.86	58.02	9,418.3	-171.2	-137.0	-170.2	3.66	1.64	-328.68
9,450.0	0.84	54.66	9,443.3	-171.0	-136.7	-170.0	0.21	-0.08	-13.44
9,475.0	1.01	54.19	9,468.3	-170.8	-136.4	-169.7	0.68	0.68	-1.88
9,500.0	0.96	48.00	9,493.3	-170.5	-136.0	-169.5	0.47	-0.20	-24.76
9,525.0	1.01	47.53	9,518.3	-170.2	-135.7	-169.2	0.20	0.20	-1.88
9,550.0	0.97	52.48	9,543.3	-169.9	-135.4	-168.9	0.38	-0.16	19.80
9,575.0	0.97	50.49	9,568.3	-169.7	-135.1	-168.7	0.13	0.00	-7.96
9,600.0	0.80	66.83	9,593.3	-169.5	-134.7	-168.5	1.21	-0.68	65.36
9,625.0	0.75	67.84	9,618.3	-169.3	-134.4	-168.3	0.21	-0.20	4.04
9,650.0	0.71	76.55	9,643.3	-169.2	-134.1	-168.2	0.47	-0.16	34.84
9,675.0	0.73	75.06	9,668.3	-169.2	-133.8	-168.2	0.11	0.08	-5.96
9,700.0	0.64	93.27	9,693.3	-169.1	-133.5	-168.1	0.94	-0.36	72.84
9,725.0	0.65	76.25	9,718.3	-169.1	-133.2	-168.1	0.76	0.04	-68.08
9,750.0	0.59	81.91	9,743.3	-169.1	-133.0	-168.1	0.34	-0.24	22.64
9,775.0	0.56	77.90	9,768.3	-169.0	-132.7	-168.0	0.20	-0.12	-16.04
9,800.0	0.60	89.03	9,793.3	-169.0	-132.5	-168.0	0.48	0.16	44.52
9,825.0	0.50	77.86	9,818.3	-169.0	-132.2	-168.0	0.58	-0.40	-44.68
9,850.0	0.51	71.87	9,843.3	-168.9	-132.0	-167.9	0.21	0.04	-23.96
9,875.0	0.36	72.72	9,868.3	-168.8	-131.8	-167.9	0.60	-0.60	3.40
9,900.0	0.45	53.44	9,893.3	-168.8	-131.7	-167.8	0.65	0.36	-77.12
9,925.0	0.28	59.56	9,918.3	-168.7	-131.6	-167.7	0.70	-0.68	24.48
9,950.0	0.30	29.96	9,943.3	-168.6	-131.5	-167.6	0.60	0.08	-118.40
9,975.0	0.42	31.97	9,968.3	-168.5	-131.4	-167.5	0.48	0.48	8.04
10,000.0	0.36	21.65	9,993.3	-168.3	-131.3	-167.3	0.37	-0.24	-41.28
10,025.0	0.40	11.89	10,018.3	-168.1	-131.3	-167.2	0.30	0.16	-39.04
10,050.0	0.48	14.31	10,043.3	-168.0	-131.2	-167.0	0.33	0.32	9.68

Company:	Concho Resources, Inc.	Local Co-ordinate Reference:	Well Littlefield 33 Fed Com #808H
Project:	Eddy County (NAD27 NME)	TVD Reference:	KB @ 2888.5usft (Latshaw 44)
Site:	(Littlefield 33 Fed Com) Sec-33_T-26-S_R-29-E	MD Reference:	KB @ 2888.5usft (Latshaw 44)
Well:	Littlefield 33 Fed Com #808H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,075.0	0.49	10.94	10,068.3	-167.8	-131.2	-166.8	0.12	0.04	-13.48
10,100.0	0.51	4.07	10,093.3	-167.5	-131.2	-166.5	0.25	0.08	-27.48
10,110.0	0.51	7.88	10,103.3	-167.4	-131.1	-166.5	0.34	0.00	38.10
Tie to SDI Gyro									
10,196.0	0.20	341.51	10,189.3	-166.9	-131.1	-165.9	0.40	-0.36	-30.66
10,289.0	0.07	191.05	10,282.3	-166.8	-131.2	-165.8	0.28	-0.14	-161.78
10,336.0	1.18	67.87	10,329.2	-166.7	-130.8	-165.7	2.60	2.36	-262.09
10,383.0	4.11	30.63	10,376.2	-165.0	-129.5	-164.1	6.91	6.23	-79.23
10,430.0	8.40	14.99	10,422.9	-160.3	-127.7	-159.3	9.74	9.13	-33.28
10,477.0	12.24	11.72	10,469.1	-152.1	-125.8	-151.1	8.26	8.17	-6.96
10,524.0	15.43	7.25	10,514.8	-141.0	-124.0	-140.1	7.15	6.79	-9.51
10,571.0	20.18	9.27	10,559.5	-126.8	-121.9	-125.9	10.19	10.11	4.30
10,618.0	28.36	8.08	10,602.3	-107.7	-119.0	-106.8	17.43	17.40	-2.53
10,665.0	36.99	5.28	10,641.8	-82.5	-116.1	-81.6	18.64	18.36	-5.96
10,712.0	45.84	2.06	10,677.1	-51.5	-114.2	-50.7	19.36	18.83	-6.85
10,745.0	54.59	1.81	10,698.2	-26.2	-113.4	-25.3	26.52	26.52	-0.76
10,792.0	62.37	3.12	10,722.7	13.8	-111.6	14.6	16.72	16.55	2.79
10,839.0	67.33	4.47	10,742.7	56.2	-108.8	57.0	10.87	10.55	2.87
10,864.1	70.35	3.33	10,751.7	79.6	-107.2	80.4	12.77	12.05	-4.54
FTP @ 10864.1'MD, 330'FSL & 671.7'FWL									
10,886.0	73.00	2.37	10,758.6	100.3	-106.2	101.1	12.77	12.08	-4.38
10,933.0	78.39	357.46	10,770.2	145.8	-106.3	146.6	15.29	11.47	-10.45
10,980.0	80.27	356.12	10,778.9	192.0	-108.9	192.8	4.88	4.00	-2.85
11,026.0	80.48	355.37	10,786.6	237.2	-112.2	238.0	1.67	0.46	-1.63
11,073.0	80.59	355.22	10,794.4	283.4	-116.0	284.3	0.39	0.23	-0.32
11,120.0	82.41	355.95	10,801.3	329.7	-119.6	330.6	4.17	3.87	1.55
11,167.0	86.02	359.20	10,806.0	376.4	-121.6	377.3	10.31	7.68	6.91
11,214.0	86.73	359.22	10,809.0	423.3	-122.2	424.3	1.51	1.51	0.04
11,262.0	86.12	358.33	10,812.0	471.2	-123.3	472.2	2.24	-1.27	-1.85
11,356.0	94.43	2.49	10,811.6	565.1	-122.6	566.0	9.88	8.84	4.43
11,450.0	91.53	1.77	10,806.7	658.9	-119.1	659.8	3.18	-3.09	-0.77
11,544.0	90.13	2.10	10,805.3	752.9	-115.9	753.7	1.53	-1.49	0.35
11,638.0	87.49	0.92	10,807.3	846.8	-113.5	847.6	3.08	-2.81	-1.26
11,732.0	87.20	0.44	10,811.6	940.7	-112.3	941.5	0.60	-0.31	-0.51
11,826.0	93.76	3.81	10,810.8	1,034.6	-108.9	1,035.3	7.84	6.98	3.59
11,920.0	93.62	3.86	10,804.8	1,128.2	-102.6	1,128.9	0.16	-0.15	0.05
12,014.0	91.53	2.87	10,800.6	1,221.9	-97.1	1,222.6	2.46	-2.22	-1.05
12,108.0	86.62	0.62	10,802.1	1,315.8	-94.2	1,316.5	5.75	-5.22	-2.39
12,203.0	87.41	1.04	10,807.0	1,410.7	-92.8	1,411.3	0.94	0.83	0.44
12,297.0	91.09	0.95	10,808.3	1,504.6	-91.2	1,505.3	3.92	3.91	-0.10
12,390.0	90.35	359.76	10,807.1	1,597.6	-90.6	1,598.2	1.51	-0.80	-1.28
12,484.0	91.10	358.36	10,805.9	1,691.6	-92.2	1,692.2	1.69	0.80	-1.49
12,578.0	88.17	358.12	10,806.5	1,785.5	-95.1	1,786.2	3.13	-3.12	-0.26

Company:	Concho Resources, Inc.	Local Co-ordinate Reference:	Well Littlefield 33 Fed Com #808H
Project:	Eddy County (NAD27 NME)	TVD Reference:	KB @ 2888.5usft (Latshaw 44)
Site:	(Littlefield 33 Fed Com) Sec-33 T-26-S-R-29-E	MD Reference:	KB @ 2888.5usft (Latshaw 44)
Well:	Littlefield 33 Fed Com #808H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
12,672.0	90.10	359.17	10,807.9	1,879.5	-97.3	1,880.2	2.34	2.05	1.12	
12,766.0	87.27	358.53	10,810.1	1,973.4	-99.2	1,974.1	3.09	-3.01	-0.68	
12,860.0	87.29	358.43	10,814.5	2,067.3	-101.7	2,068.0	0.11	0.02	-0.11	
12,953.0	87.25	357.64	10,819.0	2,160.1	-104.8	2,160.9	0.85	-0.04	-0.85	
13,047.0	90.53	357.78	10,820.8	2,254.0	-108.6	2,254.8	3.49	3.49	0.15	
13,141.0	92.53	357.25	10,818.3	2,347.9	-112.7	2,348.7	2.20	2.13	-0.56	
13,235.0	92.65	0.90	10,814.0	2,441.8	-114.2	2,442.6	3.88	0.13	3.88	
13,329.0	89.15	0.79	10,812.5	2,535.7	-112.8	2,536.5	3.73	-3.72	-0.12	
13,423.0	89.50	1.73	10,813.7	2,629.7	-110.7	2,630.5	1.07	0.37	1.00	
13,517.0	89.47	1.68	10,814.5	2,723.7	-107.9	2,724.4	0.06	-0.03	-0.05	
13,611.0	89.65	3.38	10,815.2	2,817.6	-103.8	2,818.3	1.82	0.19	1.81	
13,706.0	89.36	2.79	10,816.0	2,912.4	-98.7	2,913.1	0.69	-0.31	-0.62	
13,800.0	87.96	2.26	10,818.2	3,006.3	-94.5	3,006.9	1.59	-1.49	-0.56	
13,895.0	89.82	1.57	10,820.1	3,101.2	-91.4	3,101.8	2.09	1.96	-0.73	
13,989.0	86.97	0.77	10,822.7	3,195.2	-89.4	3,195.7	3.15	-3.03	-0.85	
14,084.0	86.66	359.73	10,828.0	3,290.0	-89.0	3,290.6	1.14	-0.33	-1.09	
14,178.0	95.45	3.06	10,826.3	3,383.9	-86.8	3,384.4	10.00	9.35	3.54	
14,272.0	93.46	2.10	10,819.0	3,477.5	-82.5	3,478.0	2.35	-2.12	-1.02	
14,366.0	87.84	2.08	10,817.9	3,571.4	-79.1	3,571.9	5.98	-5.98	-0.02	
14,461.0	89.48	3.25	10,820.1	3,666.2	-74.7	3,666.7	2.12	1.73	1.23	
14,554.0	86.79	2.54	10,823.1	3,759.1	-70.0	3,759.5	2.99	-2.89	-0.76	
14,648.0	89.25	1.99	10,826.4	3,852.9	-66.3	3,853.3	2.68	2.62	-0.59	
14,742.0	84.90	359.96	10,831.2	3,946.8	-64.7	3,947.1	5.11	-4.63	-2.16	
14,836.0	87.14	359.16	10,837.7	4,040.5	-65.4	4,040.9	2.53	2.38	-0.85	
14,931.0	92.13	359.15	10,838.3	4,135.5	-66.8	4,135.9	5.25	5.25	-0.01	
15,025.0	90.11	358.89	10,836.5	4,229.4	-68.4	4,229.8	2.17	-2.15	-0.28	
15,119.0	84.98	356.61	10,840.5	4,323.3	-72.1	4,323.7	5.97	-5.46	-2.43	
15,213.0	88.94	358.18	10,845.5	4,417.0	-76.4	4,417.5	4.53	4.21	1.67	
15,307.0	88.10	0.62	10,847.9	4,511.0	-77.3	4,511.4	2.74	-0.89	2.60	
15,401.0	87.50	1.67	10,851.5	4,604.9	-75.5	4,605.3	1.29	-0.64	1.12	
15,495.0	91.81	2.31	10,852.1	4,698.8	-72.2	4,699.2	4.64	4.59	0.68	
15,589.0	90.59	2.30	10,850.1	4,792.7	-68.4	4,793.1	1.30	-1.30	-0.01	
15,683.0	85.90	359.05	10,853.0	4,886.6	-67.3	4,887.0	6.07	-4.99	-3.46	
15,777.0	88.68	0.19	10,857.4	4,980.5	-67.9	4,980.9	3.20	2.96	1.21	
15,870.0	91.60	1.15	10,857.2	5,073.5	-66.8	5,073.8	3.31	3.14	1.03	
15,964.0	88.23	359.58	10,857.4	5,167.4	-66.2	5,167.8	3.95	-3.59	-1.67	
16,059.0	88.24	359.22	10,860.3	5,262.4	-67.2	5,262.8	0.38	0.01	-0.38	
16,152.0	91.75	359.56	10,860.3	5,355.4	-68.2	5,355.7	3.79	3.77	0.37	
16,246.0	94.81	358.65	10,854.9	5,449.2	-69.7	5,449.6	3.40	3.26	-0.97	
16,327.0	96.22	358.71	10,847.1	5,529.8	-71.6	5,530.2	1.74	1.74	0.07	
16,420.0	93.87	358.28	10,838.9	5,622.4	-74.0	5,622.8	2.57	-2.53	-0.46	
16,513.0	90.01	357.54	10,835.8	5,715.3	-77.4	5,715.7	4.23	-4.15	-0.80	
16,608.0	88.58	359.15	10,837.0	5,810.2	-80.1	5,810.7	2.27	-1.51	1.69	
16,702.0	88.10	357.93	10,839.7	5,904.1	-82.5	5,904.6	1.39	-0.51	-1.30	

Company:	Concho Resources, Inc.	Local Co-ordinate Reference:	Well: Littlefield 33 Fed Com #808H
Project:	Eddy County (NAD27-NME)	TVD Reference:	KB @ 2888.5usft (Latshaw 44)
Site:	(Littlefield 33 Fed Com) Sec-33_T-26-S_R-29-E	MD Reference:	KB @ 2888.5usft (Latshaw 44)
Well:	Littlefield 33 Fed Com #808H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
16,796.0	88.54	1.61	10,842.4	5,998.1	-82.9	5,998.5	3.94	0.47	3.91
16,889.0	90.02	5.02	10,843.6	6,090.9	-77.5	6,091.3	4.00	1.59	3.67
16,983.0	87.01	3.17	10,846.1	6,184.6	-70.8	6,185.0	3.76	-3.20	-1.97
17,077.0	86.08	3.04	10,851.7	6,278.3	-65.7	6,278.6	1.00	-0.99	-0.14
17,171.0	88.99	3.36	10,855.8	6,372.1	-60.5	6,372.3	3.11	3.10	0.34
17,265.0	85.72	0.08	10,860.1	6,465.9	-57.7	6,466.1	4.92	-3.48	-3.49
17,359.0	87.12	0.13	10,866.0	6,559.7	-57.5	6,560.0	1.49	1.49	0.05
17,452.0	86.47	0.07	10,871.2	6,652.6	-57.3	6,652.8	0.70	-0.70	-0.06
17,545.0	88.38	1.32	10,875.3	6,745.5	-56.2	6,745.7	2.45	2.05	1.34
17,638.0	90.72	1.39	10,876.1	6,838.4	-54.0	6,838.6	2.52	2.52	0.08
17,733.0	88.40	358.17	10,876.8	6,933.4	-54.4	6,933.6	4.18	-2.44	-3.39
17,827.0	87.94	358.95	10,879.8	7,027.3	-56.7	7,027.5	0.96	-0.49	0.83
17,876.8	87.93	359.13	10,881.6	7,077.1	-57.6	7,077.3	0.35	-0.02	0.35
LTP @ 17876.8' MD, 330° FNL & 658° FWL									
17,940.0	87.92	359.35	10,883.9	7,140.2	-58.4	7,140.5	0.35	-0.02	0.35
LAST SVY									
18,005.0	87.92	359.35	10,886.2	7,205.2	-59.1	7,205.4	0.00	0.00	0.00
Projection to TD @ 18005' MD, 201° FNL & 655° FWL									

Design Targets									
Target Name	Hit/miss/target Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude Longitude
FTP (Littlefield 33 Fed	- actual wellpath misses target center by 61.3usft at 10883.5usft MD (10757.9 TVD, 97.9 N, -106.3 E)	0.00	0.00	10,815.0	79.6	-119.2	364,217.53	604,701.25	32° 0' 3.232 N 103° 59' 44.085 W
- Point									
LTP (Littlefield 33 Fed	- actual wellpath misses target center by 21.7usft at 17876.0usft MD (10881.6 TVD, 7076.3 N, -57.5 E)	0.00	0.00	10,860.0	7,077.1	-55.5	371,215.01	604,764.88	32° 1' 12.481 N 103° 59' 43.092 W
- Point									
6687'VS (Littlefield 33	- actual wellpath misses target center by 9.3usft at 17485.8usft MD (10873.0 TVD, 6686.3 N, -57.1 E)	0.00	0.00	10,864.0	6,686.7	-59.2	370,824.61	604,761.20	32° 1' 8.618 N 103° 59' 43.149 W
- Point									
7187'VS (Littlefield 33	- actual wellpath misses target center by 19.1usft at 17985.9usft MD (10885.6 TVD, 7186.1 N, -58.9 E)	0.00	0.00	10,867.0	7,186.8	-54.5	371,324.71	604,765.87	32° 1' 13.567 N 103° 59' 43.076 W
- Point									
PBHL (Littlefield 33 Fed	- actual wellpath misses target center by 19.0usft at 18005.0usft MD (10886.2 TVD, 7205.2 N, -59.1 E)	0.38	0.53	10,868.0	7,207.1	-54.3	371,345.00	604,766.06	32° 1' 13.768 N 103° 59' 43.073 W
- Rectangle (sides W60.0 H5,108.1 D20.0)									

Company:	Concho Resources, Inc.	Local Co-ordinate Reference:	Well: Littlefield 33 Fed Com #808H
Project:	Eddy County (NAD27 NME)	TVD Reference:	KB @ 2888.5usft (Latshaw 44)
Site:	(Littlefield 33 Fed Com) Sec-33_T-26-S_R-29-E	MD Reference:	KB @ 2888.5usft (Latshaw 44)
Well:	Littlefield-33 Fed Com #808H	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 (°)
465.1	465.0	Rustler			
618.4	618.0	TOS			
2,623.4	2,619.0	BOS (Fletcher)			
2,808.6	2,804.0	LMAR (Top Delaware)			
2,841.6	2,837.0	BLCN			
3,719.5	3,714.0	CYCN			
4,989.1	4,983.0	BYCN			
6,502.2	6,496.0	Bone Sprg (BSGL)			
6,701.2	6,695.0	U Avalon Sh			
7,098.3	7,092.0	L Avalon Sh			
7,419.3	7,413.0	FBSG_sand			
8,148.4	8,142.0	SBSG_sand			
8,568.4	8,562.0	SBSG_sand base			
9,283.7	9,277.0	TBSG_sand			
9,652.7	9,646.0	WFMP			
10,121.7	10,115.0	WFMP B			
10,416.0	10,409.0	WFMP C			
10,845.1	10,745.0	WFMP D			

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
10,110.0	10,103.3	-167.4	-131.1	Tie to SDI Gyro	
10,864.1	10,751.7	79.6	-107.2	FTP @ 10864.1'MD, 330'FSL & 671.7'FWL	
17,876.8	10,881.6	7,077.1	-57.6	LTP @ 17876.8'MD, 330'FNL & 658'FWL	
17,940.0	10,883.9	7,140.2	-58.4	LAST SVY	
18,005.0	10,886.2	7,205.2	-59.1	Projection to TD @ 18005'MD, 201'FNL & 655'FWL	

Checked By: _____ Approved By: _____ Date: _____