



Concho Operating

**Lea County, NM (NAD 83)
Music Master 27 Federal
Well #1**

HOBBS OCD

APR 10 2017

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Music Master 27 Fed 3H Lateral

Design: Music Master 27 Fed 3H Lateral

Standard Survey Report

15 January, 2017





Survey Report

Company:	Concho Operating	Local Co-ordinate Reference:	Site Music Master 27 Federal
Project:	Lea County, NM (NAD 83)	TVD Reference:	GL 3193.4 + 27.7 RKB @ 3221.10ft (Noram 23)
Site:	Music Master 27 Federal	MD Reference:	GL 3193.4 + 27.7 RKB @ 3221.10ft (Noram 23)
Well:	Well #1	North Reference:	Grid
Wellbore:	Music Master 27 Fed 3H Lateral	Survey Calculation Method:	Minimum Curvature
Design:	Music Master 27 Fed 3H Lateral	Database:	EDM 5000.14 Single User Db

Project	Lea County, NM (NAD 83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Music Master 27 Federal				
Site Position:		Northing:	404,290.37 usft	Latitude:	32° 6' 27.676 N
From:	Map	Easting:	844,530.03 usft	Longitude:	103° 21' 14.868 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.52 °

Well	Well #1				
Well Position	+N/-S	0.00 ft	Northing:	404,290.37 usft	Latitude: 32° 6' 27.676 N
	+E/-W	0.00 ft	Easting:	844,530.03 usft	Longitude: 103° 21' 14.868 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level: 3,193.40 ft

Wellbore	Music Master 27 Fed 3H Lateral				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	12/16/2016	6.90	60.00	47,945.01084954

Design	Music Master 27 Fed 3H Lateral				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	8,097.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	178.86	

Survey Program	Date 1/15/2017				
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
83.88	898.00	Pilot Hole Surveys - VES Gyro (Music Mas	CB_Film_GMS	Camera Based Film Gyro Multi-Shot	
957.00	8,097.00	DrilTech MWD (Music Master 27 Fed 3H F	MWD	MWD - Standard	
8,191.00	13,363.00	DrilTech MWD (Music Master 27 Fed 3H L	MWD	MWD - Standard	

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
83.88	0.19	156.28	83.88	-0.13	0.06	0.13	0.23	0.23	0.00	
178.77	0.56	169.01	178.77	-0.73	0.21	0.73	0.40	0.39	13.42	
273.66	0.52	143.72	273.65	-1.53	0.55	1.54	0.25	-0.04	-26.65	
368.55	0.53	126.17	368.54	-2.14	1.16	2.16	0.17	0.01	-18.50	
463.44	0.53	114.19	463.43	-2.57	1.91	2.61	0.12	0.00	-12.63	
558.33	0.77	103.81	558.31	-2.91	2.93	2.96	0.28	0.25	-10.94	
653.22	0.79	95.30	653.19	-3.12	4.20	3.20	0.12	0.02	-8.97	
748.11	0.76	94.12	748.07	-3.22	5.48	3.33	0.04	-0.03	-1.24	



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Site:	Music Master 27 Federal	MD Reference:	GL 3193.4 + 27.7 RKB @ 3221.10ft (Noram 23)
Well:	Well #1	North Reference:	Grid
Wellbore:	Music Master 27 Fed 3H Lateral	Survey Calculation Method:	Minimum Curvature
Design:	Music Master 27 Fed 3H Lateral	Database:	EDM 5000.14 Single User Db

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
843.00	0.84	91.73	842.95	-3.29	6.81	3.43	0.09	0.08	-2.52
898.00	0.94	88.77	897.95	-3.29	7.66	3.44	0.20	0.18	-5.38
957.00	0.97	99.02	956.94	-3.36	8.64	3.53	0.29	0.05	17.37
1,051.00	1.06	89.44	1,050.92	-3.48	10.29	3.68	0.20	0.10	-10.19
1,146.00	1.23	103.85	1,145.90	-3.71	12.16	3.95	0.35	0.18	15.17
1,240.00	1.23	91.90	1,239.88	-3.99	14.15	4.27	0.27	0.00	-12.71
1,334.00	1.14	96.64	1,333.86	-4.13	16.09	4.45	0.14	-0.10	5.04
1,428.00	1.32	83.55	1,427.84	-4.12	18.09	4.47	0.35	0.19	-13.93
1,523.00	1.49	88.03	1,522.81	-3.95	20.41	4.36	0.21	0.18	4.72
1,617.00	1.23	87.85	1,616.79	-3.87	22.64	4.32	0.28	-0.28	-0.19
1,710.00	1.67	83.99	1,709.76	-3.69	24.99	4.19	0.48	0.47	-4.15
1,805.00	1.49	87.77	1,804.72	-3.50	27.60	4.05	0.22	-0.19	3.98
1,899.00	1.67	82.14	1,898.68	-3.26	30.18	3.86	0.25	0.19	-5.99
1,993.00	2.37	80.38	1,992.63	-2.75	33.45	3.42	0.75	0.74	-1.87
2,088.00	2.37	83.90	2,087.54	-2.21	37.34	2.96	0.15	0.00	3.71
2,182.00	2.64	81.44	2,181.45	-1.69	41.41	2.51	0.31	0.29	-2.62
2,276.00	1.58	105.26	2,275.39	-1.70	44.80	2.60	1.44	-1.13	25.34
2,370.00	1.14	140.59	2,369.37	-2.77	46.65	3.70	0.98	-0.47	37.59
2,464.00	1.23	118.62	2,463.35	-3.97	48.13	4.93	0.49	0.10	-23.37
2,558.00	0.44	167.31	2,557.34	-4.81	49.09	5.78	1.06	-0.84	51.80
2,653.00	1.41	262.14	2,652.33	-5.32	48.01	6.28	1.59	1.02	99.82
2,747.00	0.97	264.25	2,746.31	-5.56	46.08	6.48	0.47	-0.47	2.24
2,841.00	0.62	289.65	2,840.30	-5.47	44.81	6.36	0.52	-0.37	27.02
2,935.00	0.70	305.21	2,934.29	-4.97	43.86	5.84	0.21	0.09	16.55
3,029.00	0.44	328.76	3,028.29	-4.33	43.20	5.19	0.37	-0.28	25.05
3,123.00	0.70	6.47	3,122.28	-3.45	43.08	4.31	0.47	0.28	40.12
3,218.00	0.97	308.55	3,217.27	-2.37	42.52	3.22	0.89	0.28	-60.97
3,312.00	0.79	326.83	3,311.26	-1.33	41.54	2.16	0.35	-0.19	19.45
3,407.00	0.70	353.46	3,406.25	-0.21	41.11	1.03	0.37	-0.09	28.03
3,501.00	0.70	302.92	3,500.25	0.67	40.57	0.13	0.64	0.00	-53.77
3,595.00	0.88	264.34	3,594.24	0.91	39.37	-0.13	0.58	0.19	-41.04
3,690.00	0.62	272.34	3,689.23	0.86	38.13	-0.10	0.29	-0.27	8.42
3,784.00	0.97	254.67	3,783.22	0.67	36.85	0.06	0.45	0.37	-18.80
3,879.00	0.97	235.51	3,878.21	0.01	35.41	0.70	0.34	0.00	-20.17
3,973.00	1.06	221.36	3,972.19	-1.10	34.18	1.78	0.28	0.10	-15.05
4,067.00	1.32	162.47	4,066.18	-2.78	33.93	3.46	1.27	0.28	-62.65
4,162.00	0.79	208.09	4,161.16	-4.40	33.96	5.08	1.00	-0.56	48.02
4,256.00	0.88	261.44	4,255.15	-5.08	32.94	5.74	0.80	0.10	56.76
4,351.00	1.06	268.03	4,350.14	-5.22	31.34	5.84	0.22	0.19	6.94
4,445.00	1.41	286.84	4,444.12	-4.92	29.36	5.50	0.57	0.37	20.01
4,539.00	2.02	287.81	4,538.08	-4.08	26.68	4.60	0.65	0.65	1.03
4,633.00	1.06	333.07	4,632.04	-2.79	24.71	3.28	1.57	-1.02	48.15
4,727.00	1.85	22.38	4,726.02	-0.61	24.89	1.11	1.50	0.84	52.46



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Design:	Music Master 27 Fed 3H Lateral	Database:	EDM 5000.14 Single User Db

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,821.00	1.23	44.52	4,819.98	1.51	26.18	-0.99	0.90	-0.66	23.55
4,915.00	1.06	43.73	4,913.96	2.86	27.48	-2.31	0.18	-0.18	-0.84
5,009.00	1.23	32.57	5,007.95	4.33	28.63	-3.76	0.30	0.18	-11.87
5,074.00	1.06	28.44	5,072.93	5.45	29.29	-4.87	0.29	-0.26	-6.35
5,176.00	1.49	36.97	5,174.91	7.34	30.54	-6.73	0.46	0.42	8.36
5,270.00	1.06	331.05	5,268.89	9.08	30.85	-8.46	1.52	-0.46	-70.13
5,364.00	1.76	301.78	5,362.86	10.60	29.20	-10.01	1.05	0.74	-31.14
5,458.00	1.32	309.16	5,456.83	12.04	27.14	-11.50	0.51	-0.47	7.85
5,552.00	1.67	307.67	5,550.79	13.56	25.21	-13.06	0.37	0.37	-1.59
5,646.00	1.41	312.59	5,644.76	15.18	23.28	-14.72	0.31	-0.28	5.23
5,741.00	1.23	301.60	5,739.73	16.51	21.55	-16.08	0.33	-0.19	-11.57
5,835.00	1.14	296.16	5,833.71	17.45	19.85	-17.05	0.15	-0.10	-5.79
5,929.00	1.14	310.13	5,927.70	18.46	18.30	-18.10	0.29	0.00	14.86
6,023.00	0.88	306.17	6,021.68	19.49	17.00	-19.15	0.29	-0.28	-4.21
6,116.00	1.06	298.88	6,114.67	20.33	15.67	-20.01	0.23	0.19	-7.84
6,210.00	0.79	239.38	6,208.66	20.42	14.35	-20.13	1.01	-0.29	-63.30
6,305.00	0.88	253.35	6,303.65	19.88	13.09	-19.61	0.23	0.09	14.71
6,399.00	0.79	257.92	6,397.64	19.53	11.76	-19.30	0.12	-0.10	4.86
6,494.00	0.88	240.08	6,492.63	19.03	10.49	-18.82	0.29	0.09	-18.78
6,588.00	0.97	240.87	6,586.62	18.29	9.17	-18.10	0.10	0.10	0.84
6,682.00	0.70	232.61	6,680.61	17.55	8.02	-17.39	0.31	-0.29	-8.79
6,776.00	0.79	246.06	6,774.60	16.94	6.97	-16.80	0.21	0.10	14.31
6,870.00	0.53	231.12	6,868.59	16.40	6.04	-16.28	0.33	-0.28	-15.89
6,965.00	0.62	203.34	6,963.59	15.65	5.49	-15.54	0.30	0.09	-29.24
7,060.00	0.62	197.37	7,058.58	14.69	5.13	-14.59	0.07	0.00	-6.28
7,154.00	0.26	226.72	7,152.58	14.06	4.83	-13.96	0.44	-0.38	31.22
7,248.00	0.44	190.69	7,246.58	13.56	4.60	-13.47	0.29	0.19	-38.33
7,343.00	0.53	211.87	7,341.57	12.83	4.31	-12.74	0.21	0.09	22.29
7,437.00	0.44	216.17	7,435.57	12.17	3.86	-12.09	0.10	-0.10	4.57
7,532.00	0.35	177.68	7,530.57	11.58	3.66	-11.51	0.29	-0.09	-40.52
7,626.00	0.26	161.42	7,624.57	11.09	3.74	-11.02	0.13	-0.10	-17.30
7,720.00	0.70	106.66	7,718.56	10.73	4.36	-10.64	0.63	0.47	-58.26
7,814.00	0.62	108.25	7,812.56	10.40	5.39	-10.29	0.09	-0.09	1.69
7,909.00	1.23	138.13	7,907.54	9.48	6.56	-9.35	0.80	0.64	31.45
8,003.00	2.02	156.50	8,001.51	7.21	7.89	-7.05	1.00	0.84	19.54
8,097.00	2.73	167.92	8,095.43	3.50	9.02	-3.32	0.90	0.76	12.15
8097'MD: Tie into Pilot Hold Surveys									
8,191.00	3.96	173.02	8,189.26	-1.91	9.88	2.10	1.34	1.31	5.43
8191'MD: Begin Lateral Curve Surveys									
8,285.00	3.69	165.64	8,283.06	-8.06	11.03	8.28	0.60	-0.29	-7.85
8,338.00	13.72	189.72	8,335.39	-15.93	10.39	16.13	19.73	18.92	45.43
8,385.00	19.35	187.17	8,380.43	-29.16	8.47	29.32	12.08	11.98	-5.43
8,432.00	20.49	183.83	8,424.62	-45.09	6.95	45.22	3.43	2.43	-7.11
8,479.00	23.30	180.23	8,468.22	-62.60	6.37	62.71	6.62	5.98	-7.66



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Design:	Music Master 27 Fed 3H Lateral	Database:	EDM 5000.14 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,526.00	27.87	173.90	8,510.61	-82.83	7.50	82.97	11.32	9.72	-13.47
8,573.00	30.95	170.56	8,551.55	-105.69	10.65	105.88	7.42	6.55	-7.11
8,621.00	33.59	172.76	8,592.14	-131.04	14.35	131.30	6.02	5.50	4.58
8,668.00	37.37	175.13	8,630.41	-158.16	17.20	158.47	8.56	8.04	5.04
8,715.00	40.63	176.10	8,666.93	-187.65	19.45	188.00	7.06	6.94	2.06
8,762.00	43.70	175.57	8,701.76	-219.11	21.74	219.50	6.58	6.53	-1.13
8,809.00	46.17	175.39	8,735.03	-252.20	24.36	252.63	5.26	5.26	-0.38
8,856.00	49.95	175.75	8,766.44	-287.05	27.06	287.53	8.06	8.04	0.77
8,903.00	55.22	175.22	8,794.98	-324.25	30.00	324.78	11.25	11.21	-1.13
8,950.00	60.59	176.62	8,819.95	-363.95	32.82	364.53	11.70	11.43	2.98
8,997.00	67.88	178.73	8,840.36	-406.21	34.51	406.82	16.03	15.51	4.49
9,044.00	74.74	179.00	8,855.42	-450.70	35.39	451.31	14.61	14.60	0.57
9,091.00	80.81	179.17	8,865.36	-496.61	36.12	497.23	12.92	12.91	0.36
9,185.00	89.87	179.96	8,872.99	-590.19	36.83	590.81	9.67	9.64	0.84
9,280.00	90.22	179.79	8,872.92	-685.19	37.04	685.79	0.41	0.37	-0.18
9,375.00	90.48	179.17	8,872.34	-780.19	37.90	780.79	0.71	0.27	-0.65
9,469.00	91.10	180.58	8,871.04	-874.17	38.10	874.76	1.64	0.66	1.50
9,563.00	90.57	181.46	8,869.67	-968.15	36.43	968.68	1.09	-0.56	0.94
9,658.00	89.52	181.46	8,869.60	-1,063.12	34.01	1,063.58	1.11	-1.11	0.00
9,752.00	88.72	181.28	8,871.04	-1,157.08	31.76	1,157.48	0.87	-0.85	-0.19
9,846.00	86.70	180.49	8,874.80	-1,250.99	30.31	1,251.34	2.31	-2.15	-0.84
9,940.00	88.90	179.70	8,878.41	-1,344.91	30.16	1,345.24	2.49	2.34	-0.84
10,034.00	90.22	179.88	8,879.13	-1,438.90	30.50	1,439.23	1.42	1.40	0.19
10,129.00	90.22	178.03	8,878.76	-1,533.88	32.23	1,534.22	1.95	0.00	-1.95
10,223.00	88.55	178.29	8,879.77	-1,627.83	35.25	1,628.21	1.80	-1.78	0.28
10,318.00	86.88	178.91	8,883.56	-1,722.72	37.57	1,723.13	1.87	-1.76	0.65
10,413.00	87.76	179.44	8,888.00	-1,817.60	38.94	1,818.02	1.08	0.93	0.56
10,508.00	90.92	179.52	8,889.09	-1,912.58	39.80	1,912.99	3.33	3.33	0.08
10,601.00	89.78	179.00	8,888.53	-2,005.57	41.00	2,005.99	1.35	-1.23	-0.56
10,696.00	89.52	179.35	8,889.11	-2,100.56	42.37	2,100.99	0.46	-0.27	0.37
10,790.00	89.43	179.00	8,889.97	-2,194.54	43.72	2,194.98	0.38	-0.10	-0.37
10,884.00	89.60	178.21	8,890.76	-2,288.51	46.01	2,288.97	0.86	0.18	-0.84
10,977.00	90.04	178.12	8,891.06	-2,381.46	48.99	2,381.97	0.48	0.47	-0.10
11,071.00	90.31	178.03	8,890.77	-2,475.41	52.15	2,475.96	0.30	0.29	-0.10
11,165.00	90.48	178.03	8,890.12	-2,569.35	55.38	2,569.95	0.18	0.18	0.00
11,260.00	89.69	177.77	8,889.98	-2,664.29	58.86	2,664.93	0.88	-0.83	-0.27
11,354.00	90.04	178.12	8,890.20	-2,758.23	62.23	2,758.92	0.53	0.37	0.37
11,448.00	90.48	178.29	8,889.78	-2,852.18	65.17	2,852.91	0.50	0.47	0.18
11,543.00	91.10	178.73	8,888.47	-2,947.14	67.64	2,947.90	0.80	0.65	0.46
11,637.00	91.10	178.65	8,886.66	-3,041.10	69.79	3,041.88	0.09	0.00	-0.09
11,731.00	89.78	179.00	8,885.94	-3,135.07	71.72	3,135.88	1.45	-1.40	0.37
11,826.00	89.60	179.00	8,886.45	-3,230.06	73.38	3,230.88	0.19	-0.19	0.00
11,920.00	89.69	178.47	8,887.04	-3,324.03	75.45	3,324.87	0.57	0.10	-0.56



Survey Report

Company:	Concho Operating	Local Co-ordinate Reference:	Site Music Master 27 Federal
Project:	Lea County, NM (NAD 83)	TVD Reference:	GL 3193.4 + 27.7 RKB @ 3221.10ft (Noram 23)
Site:	Music Master 27 Federal	MD Reference:	GL 3193.4 + 27.7 RKB @ 3221.10ft (Noram 23)
Well:	Well #1	North Reference:	Grid
Wellbore:	Music Master 27 Fed 3H Lateral	Survey Calculation Method:	Minimum Curvature
Design:	Music Master 27 Fed 3H Lateral	Database:	EDM 5000.14 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
12,014.00	90.22	178.21	8,887.11	-3,417.99	78.18	3,418.87	0.63	0.56	-0.28
12,108.00	89.43	178.38	8,887.40	-3,511.95	80.97	3,512.86	0.86	-0.84	0.18
12,203.00	89.87	178.82	8,887.98	-3,606.92	83.29	3,607.86	0.65	0.46	0.46
12,297.00	91.19	179.35	8,887.11	-3,700.90	84.79	3,701.85	1.51	1.40	0.56
12,391.00	88.99	179.26	8,886.96	-3,794.89	85.93	3,795.84	2.34	-2.34	-0.10
12,485.00	88.99	179.00	8,888.62	-3,888.86	87.36	3,889.83	0.28	0.00	-0.28
12,580.00	88.90	178.73	8,890.37	-3,983.83	89.24	3,984.81	0.30	-0.09	-0.28
12,673.00	88.46	178.73	8,892.51	-4,076.78	91.30	4,077.79	0.47	-0.47	0.00
12,768.00	88.81	178.38	8,894.77	-4,171.72	93.70	4,172.76	0.52	0.37	-0.37
12,862.00	89.25	178.65	8,896.36	-4,265.67	96.13	4,266.74	0.55	0.47	0.29
12,955.00	89.78	178.21	8,897.15	-4,358.64	98.68	4,359.74	0.74	0.57	-0.47
13,050.00	89.69	177.33	8,897.59	-4,453.56	102.38	4,454.72	0.93	-0.09	-0.93
13,144.00	90.22	177.42	8,897.66	-4,547.46	106.68	4,548.69	0.57	0.56	0.10
13,238.00	90.57	177.06	8,897.01	-4,641.35	111.21	4,642.65	0.53	0.37	-0.38
13,314.00	90.57	176.71	8,896.26	-4,717.24	115.34	4,718.60	0.46	0.00	-0.46
13314'MD: Survey Depth									
13,363.00	90.57	176.71	8,895.77	-4,766.15	118.15	4,767.56	0.00	0.00	0.00
13363'MD: Projection to Total Depth									

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
8,097.00	8,095.43	3.50	9.02	8097'MD: Tie into Pilot Hold Surveys
8,191.00	8,189.26	-1.91	9.88	8191'MD: Begin Lateral Curve Surveys
13,314.00	8,896.26	-4,717.24	115.34	13314'MD: Survey Depth
13,363.00	8,895.77	-4,766.15	118.15	13363'MD: Projection to Total Depth

Checked By: _____ Approved By: _____ Date: _____