



Concho Operating

Lea County, NM (Nad 27)

VAST State

VAST State 26H

Wellbore #1

Design: Wellbore #1

HOBBS OCC

SEP 22 2017

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Survey Report - Geographic

22 May, 2017



Survey Report - Geographic

Company:	Concho Operating	Local Co-ordinate Reference:	Well VAST State 26H
Project:	Lea County, NM (Nad 27)	TVD Reference:	GL 3262 + 28' RKB @ 3290.00ft
Site:	VAST State	MD Reference:	GL 3262 + 28' RKB @ 3290.00ft
Well:	VAST State 26H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.14 Single User Db

Project	Lea County, NM (Nad 27)		
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	VAST State			
Site Position:		Northing:	377,870.10 usft	Latitude: 32.037°N
From:	Map	Easting:	729,806.50 usft	Longitude: 103.592°W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence: 0.39 °

Well	VAST State 26H			
Well Position	+N/-S	0.00 ft	Northing:	377,869.60 usft
	+E/-W	0.00 ft	Easting:	729,736.50 usft
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft	Ground Level: 3,262.00 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	3/20/2017	6.98	59.89	47,857.32183018

Design	Wellbore #1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	359.56	

Survey Program	Date 5/19/2017				
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
100.00	11,604.00	Gyro Survey (Wellbore #1)	Keeper	Keeper Standard Rate Gyro	
11,781.00	17,307.00	DrilTech MWD (Wellbore #1)	MWD	MWD - Standard	

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	377,869.60	729,736.50	32.037°N	103.592°W
100.00	0.46	7.52	100.00	0.40	0.05	377,870.00	729,736.55	32.037°N	103.592°W
125.00	0.50	357.94	125.00	0.61	0.06	377,870.20	729,736.56	32.037°N	103.592°W
150.00	0.54	0.91	150.00	0.83	0.06	377,870.43	729,736.56	32.037°N	103.592°W
175.00	0.60	3.56	175.00	1.08	0.07	377,870.68	729,736.57	32.037°N	103.592°W
200.00	0.68	358.66	199.99	1.36	0.07	377,870.96	729,736.57	32.037°N	103.592°W
225.00	0.63	357.84	224.99	1.65	0.07	377,871.24	729,736.56	32.037°N	103.592°W
250.00	0.63	1.32	249.99	1.92	0.06	377,871.52	729,736.56	32.037°N	103.592°W
275.00	0.61	1.92	274.99	2.19	0.07	377,871.79	729,736.57	32.037°N	103.592°W
300.00	0.68	358.29	299.99	2.47	0.07	377,872.07	729,736.57	32.037°N	103.592°W
325.00	0.71	353.44	324.99	2.77	0.05	377,872.37	729,736.55	32.037°N	103.592°W



Survey Report - Geographic

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Site:	VAST State	MD Reference:	GL 3262 + 28' RKB @ 3290.00ft
Well:	VAST State 26H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.14 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
350.00	0.59	358.95	349.98	3.06	0.03	377,872.66	729,736.53	32.037°N	103.592°W
375.00	0.68	1.50	374.98	3.33	0.03	377,872.93	729,736.53	32.037°N	103.592°W
400.00	0.60	354.65	399.98	3.61	0.02	377,873.21	729,736.52	32.037°N	103.592°W
425.00	0.52	352.72	424.98	3.86	0.00	377,873.45	729,736.49	32.037°N	103.592°W
450.00	0.61	354.68	449.98	4.10	-0.03	377,873.70	729,736.47	32.037°N	103.592°W
475.00	0.61	351.25	474.98	4.37	-0.06	377,873.96	729,736.43	32.037°N	103.592°W
500.00	0.60	354.06	499.98	4.63	-0.10	377,874.23	729,736.40	32.037°N	103.592°W
525.00	0.59	353.27	524.97	4.88	-0.13	377,874.48	729,736.37	32.037°N	103.592°W
550.00	0.60	348.47	549.97	5.14	-0.17	377,874.74	729,736.33	32.037°N	103.592°W
575.00	0.53	350.17	574.97	5.38	-0.21	377,874.98	729,736.28	32.037°N	103.592°W
600.00	0.37	351.78	599.97	5.58	-0.24	377,875.18	729,736.25	32.037°N	103.592°W
625.00	0.40	340.43	624.97	5.74	-0.29	377,875.34	729,736.21	32.037°N	103.592°W
650.00	0.35	337.69	649.97	5.89	-0.34	377,875.49	729,736.15	32.037°N	103.592°W
675.00	0.33	343.90	674.97	6.03	-0.39	377,875.63	729,736.10	32.037°N	103.592°W
700.00	0.33	334.89	699.97	6.17	-0.44	377,875.76	729,736.05	32.037°N	103.592°W
725.00	0.25	331.56	724.97	6.28	-0.50	377,875.88	729,736.00	32.037°N	103.592°W
750.00	0.38	342.35	749.97	6.41	-0.55	377,876.00	729,735.95	32.037°N	103.592°W
775.00	0.25	324.48	774.97	6.53	-0.61	377,876.13	729,735.89	32.037°N	103.592°W
800.00	0.27	325.89	799.97	6.62	-0.67	377,876.22	729,735.82	32.037°N	103.592°W
825.00	0.36	338.58	824.97	6.74	-0.73	377,876.34	729,735.76	32.037°N	103.592°W
850.00	0.22	322.77	849.97	6.86	-0.79	377,876.45	729,735.70	32.037°N	103.592°W
875.00	0.35	329.71	874.97	6.96	-0.86	377,876.56	729,735.64	32.037°N	103.592°W
900.00	0.34	312.71	899.97	7.08	-0.95	377,876.67	729,735.54	32.037°N	103.592°W
925.00	0.31	313.13	924.97	7.17	-1.06	377,876.77	729,735.44	32.037°N	103.592°W
950.00	0.37	328.18	949.97	7.29	-1.15	377,876.89	729,735.35	32.037°N	103.592°W
975.00	0.32	303.21	974.97	7.39	-1.25	377,876.99	729,735.25	32.037°N	103.592°W
1,000.00	0.36	318.43	999.97	7.49	-1.36	377,877.09	729,735.14	32.037°N	103.592°W
1,025.00	0.40	314.74	1,024.96	7.61	-1.47	377,877.21	729,735.02	32.037°N	103.592°W
1,050.00	0.67	272.95	1,049.96	7.68	-1.68	377,877.28	729,734.81	32.037°N	103.592°W
1,075.00	1.09	253.06	1,074.96	7.62	-2.05	377,877.22	729,734.44	32.037°N	103.592°W
1,100.00	1.32	254.62	1,099.96	7.47	-2.56	377,877.07	729,733.94	32.037°N	103.592°W
1,125.00	1.24	248.09	1,124.95	7.30	-3.09	377,876.89	729,733.41	32.037°N	103.592°W
1,150.00	1.25	249.82	1,149.94	7.10	-3.60	377,876.70	729,732.90	32.037°N	103.592°W
1,175.00	1.29	251.70	1,174.94	6.92	-4.12	377,876.52	729,732.38	32.037°N	103.592°W
1,200.00	1.22	249.87	1,199.93	6.74	-4.64	377,876.34	729,731.86	32.037°N	103.592°W
1,225.00	1.28	250.40	1,224.92	6.55	-5.15	377,876.15	729,731.35	32.037°N	103.592°W
1,250.00	1.32	246.45	1,249.92	6.34	-5.68	377,875.94	729,730.82	32.037°N	103.592°W
1,275.00	1.34	248.47	1,274.91	6.12	-6.21	377,875.72	729,730.28	32.037°N	103.592°W
1,300.00	1.25	246.27	1,299.91	5.91	-6.73	377,875.50	729,729.76	32.037°N	103.592°W
1,325.00	1.33	247.23	1,324.90	5.68	-7.25	377,875.28	729,729.25	32.037°N	103.592°W
1,350.00	1.45	244.30	1,349.89	5.43	-7.80	377,875.03	729,728.69	32.037°N	103.592°W
1,375.00	1.44	244.40	1,374.88	5.16	-8.37	377,874.76	729,728.13	32.037°N	103.592°W
1,400.00	1.58	241.86	1,399.87	4.86	-8.96	377,874.46	729,727.54	32.037°N	103.592°W
1,425.00	1.49	243.65	1,424.87	4.56	-9.55	377,874.15	729,726.94	32.037°N	103.592°W
1,450.00	1.56	242.35	1,449.86	4.25	-10.15	377,873.85	729,726.35	32.037°N	103.592°W
1,475.00	1.50	240.26	1,474.85	3.93	-10.73	377,873.53	729,725.76	32.037°N	103.592°W
1,500.00	1.27	237.22	1,499.84	3.62	-11.25	377,873.22	729,725.25	32.037°N	103.592°W
1,525.00	1.24	235.39	1,524.83	3.32	-11.70	377,872.92	729,724.79	32.037°N	103.592°W
1,550.00	1.05	233.19	1,549.83	3.03	-12.11	377,872.62	729,724.39	32.037°N	103.592°W
1,575.00	1.10	234.72	1,574.83	2.75	-12.49	377,872.35	729,724.01	32.037°N	103.592°W
1,600.00	1.05	233.67	1,599.82	2.48	-12.87	377,872.07	729,723.63	32.037°N	103.592°W
1,625.00	1.14	232.14	1,624.82	2.19	-13.25	377,871.79	729,723.25	32.037°N	103.592°W
1,650.00	1.16	231.05	1,649.81	1.88	-13.64	377,871.47	729,722.85	32.037°N	103.592°W
1,675.00	1.12	233.30	1,674.81	1.57	-14.04	377,871.17	729,722.46	32.037°N	103.592°W
1,700.00	1.13	231.45	1,699.80	1.27	-14.43	377,870.87	729,722.07	32.037°N	103.592°W



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Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
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Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
1,725.00	1.14	227.74	1,724.80	0.95	-14.80	377,870.55	729,721.69	32.037°N	103.592°W
1,750.00	1.06	231.08	1,749.79	0.64	-15.17	377,870.24	729,721.33	32.037°N	103.592°W
1,775.00	0.75	229.53	1,774.79	0.39	-15.47	377,869.99	729,721.03	32.037°N	103.592°W
1,800.00	0.36	221.25	1,799.79	0.22	-15.65	377,869.82	729,720.85	32.037°N	103.592°W
1,825.00	0.24	231.45	1,824.79	0.13	-15.74	377,869.73	729,720.76	32.037°N	103.592°W
1,850.00	0.20	219.92	1,849.79	0.06	-15.81	377,869.66	729,720.69	32.037°N	103.592°W
1,875.00	0.21	237.55	1,874.79	0.01	-15.88	377,869.60	729,720.62	32.037°N	103.592°W
1,900.00	0.22	205.85	1,899.79	-0.06	-15.93	377,869.54	729,720.56	32.037°N	103.592°W
1,925.00	0.17	239.79	1,924.79	-0.12	-15.99	377,869.47	729,720.51	32.037°N	103.592°W
1,950.00	0.30	219.43	1,949.79	-0.19	-16.06	377,869.41	729,720.43	32.037°N	103.592°W
1,975.00	0.19	222.09	1,974.79	-0.27	-16.13	377,869.32	729,720.37	32.037°N	103.592°W
2,000.00	0.26	229.29	1,999.79	-0.34	-16.20	377,869.26	729,720.29	32.037°N	103.592°W
2,025.00	0.21	250.76	2,024.79	-0.39	-16.29	377,869.20	729,720.21	32.037°N	103.592°W
2,050.00	0.27	217.61	2,049.79	-0.46	-16.37	377,869.14	729,720.13	32.037°N	103.592°W
2,075.00	0.26	236.54	2,074.79	-0.53	-16.45	377,869.06	729,720.05	32.037°N	103.592°W
2,100.00	0.34	218.97	2,099.79	-0.62	-16.54	377,868.98	729,719.95	32.037°N	103.592°W
2,125.00	0.26	235.96	2,124.78	-0.71	-16.64	377,868.89	729,719.86	32.037°N	103.592°W
2,150.00	0.40	235.17	2,149.78	-0.79	-16.76	377,868.80	729,719.74	32.037°N	103.592°W
2,175.00	0.32	231.09	2,174.78	-0.89	-16.88	377,868.71	729,719.61	32.037°N	103.592°W
2,200.00	0.43	224.75	2,199.78	-1.00	-17.00	377,868.60	729,719.49	32.037°N	103.592°W
2,225.00	0.49	225.98	2,224.78	-1.14	-17.15	377,868.46	729,719.35	32.037°N	103.592°W
2,250.00	0.53	226.49	2,249.78	-1.29	-17.31	377,868.31	729,719.19	32.037°N	103.592°W
2,275.00	0.50	223.37	2,274.78	-1.45	-17.47	377,868.15	729,719.03	32.037°N	103.592°W
2,300.00	0.59	216.64	2,299.78	-1.63	-17.62	377,867.96	729,718.88	32.037°N	103.592°W
2,325.00	0.50	217.36	2,324.78	-1.82	-17.76	377,867.77	729,718.74	32.037°N	103.592°W
2,350.00	0.52	166.82	2,349.78	-2.02	-17.80	377,867.58	729,718.70	32.037°N	103.592°W
2,375.00	0.59	153.98	2,374.78	-2.25	-17.72	377,867.35	729,718.78	32.037°N	103.592°W
2,400.00	0.70	150.41	2,399.77	-2.50	-17.59	377,867.10	729,718.91	32.037°N	103.592°W
2,425.00	0.68	150.08	2,424.77	-2.76	-17.44	377,866.84	729,719.06	32.037°N	103.592°W
2,450.00	0.67	151.13	2,449.77	-3.01	-17.29	377,866.58	729,719.20	32.037°N	103.592°W
2,475.00	0.73	144.33	2,474.77	-3.27	-17.13	377,866.33	729,719.37	32.037°N	103.592°W
2,500.00	0.71	153.65	2,499.77	-3.54	-16.97	377,866.06	729,719.53	32.037°N	103.592°W
2,525.00	0.64	153.24	2,524.77	-3.80	-16.84	377,865.80	729,719.66	32.037°N	103.592°W
2,550.00	0.69	153.16	2,549.76	-4.06	-16.70	377,865.54	729,719.79	32.037°N	103.592°W
2,575.00	0.64	147.47	2,574.76	-4.31	-16.56	377,865.28	729,719.93	32.037°N	103.592°W
2,600.00	0.69	148.76	2,599.76	-4.56	-16.41	377,865.04	729,720.09	32.037°N	103.592°W
2,625.00	0.64	127.51	2,624.76	-4.77	-16.22	377,864.82	729,720.28	32.037°N	103.592°W
2,650.00	0.62	109.68	2,649.76	-4.90	-15.98	377,864.69	729,720.51	32.037°N	103.592°W
2,675.00	0.71	97.08	2,674.76	-4.97	-15.70	377,864.63	729,720.80	32.037°N	103.592°W
2,700.00	0.64	93.36	2,699.75	-5.00	-15.41	377,864.60	729,721.09	32.037°N	103.592°W
2,725.00	0.69	87.95	2,724.75	-5.00	-15.12	377,864.60	729,721.38	32.037°N	103.592°W
2,750.00	0.66	87.37	2,749.75	-4.99	-14.82	377,864.61	729,721.67	32.037°N	103.592°W
2,775.00	0.71	87.90	2,774.75	-4.98	-14.52	377,864.62	729,721.97	32.037°N	103.592°W
2,800.00	0.65	91.70	2,799.75	-4.97	-14.23	377,864.62	729,722.27	32.037°N	103.592°W
2,825.00	0.67	89.72	2,824.75	-4.98	-13.94	377,864.62	729,722.56	32.037°N	103.592°W
2,850.00	0.73	86.31	2,849.74	-4.97	-13.64	377,864.63	729,722.86	32.037°N	103.592°W
2,875.00	0.67	86.84	2,874.74	-4.95	-13.33	377,864.65	729,723.17	32.037°N	103.592°W
2,900.00	0.72	99.07	2,899.74	-4.96	-13.03	377,864.63	729,723.47	32.037°N	103.592°W
2,925.00	0.65	95.96	2,924.74	-5.00	-12.73	377,864.59	729,723.76	32.037°N	103.592°W
2,950.00	0.58	88.82	2,949.74	-5.02	-12.47	377,864.58	729,724.03	32.037°N	103.592°W
2,975.00	0.72	96.86	2,974.74	-5.03	-12.18	377,864.57	729,724.31	32.037°N	103.592°W
3,000.00	0.69	66.27	2,999.73	-4.99	-11.89	377,864.61	729,724.61	32.037°N	103.592°W
3,025.00	0.66	82.17	3,024.73	-4.91	-11.61	377,864.69	729,724.89	32.037°N	103.592°W
3,050.00	0.67	94.26	3,049.73	-4.90	-11.32	377,864.70	729,725.18	32.037°N	103.592°W
3,075.00	0.68	97.42	3,074.73	-4.93	-11.03	377,864.67	729,725.47	32.037°N	103.592°W



Survey Report - Geographic

Company:	Concho Operating	Local Co-ordinate Reference:	Well VAST State 26H
Project:	Lea County, NM (Nad 27)	TVD Reference:	GL 3262 + 28' RKB @ 3290.00ft
Site:	VAST State	MD Reference:	GL 3262 + 28' RKB @ 3290.00ft
Well:	VAST State 26H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.14 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
3,100.00	0.70	96.98	3,099.73	-4.97	-10.73	377,864.63	729,725.77	32.037°N	103.592°W
3,125.00	0.66	93.99	3,124.72	-5.00	-10.43	377,864.60	729,726.06	32.037°N	103.592°W
3,150.00	0.70	96.83	3,149.72	-5.03	-10.14	377,864.57	729,726.36	32.037°N	103.592°W
3,175.00	0.67	98.80	3,174.72	-5.07	-9.84	377,864.53	729,726.65	32.037°N	103.592°W
3,200.00	0.71	94.10	3,199.72	-5.10	-9.54	377,864.50	729,726.95	32.037°N	103.592°W
3,225.00	0.67	97.71	3,224.72	-5.13	-9.24	377,864.47	729,727.25	32.037°N	103.592°W
3,250.00	0.73	100.86	3,249.72	-5.18	-8.94	377,864.42	729,727.55	32.037°N	103.592°W
3,275.00	0.67	92.00	3,274.71	-5.22	-8.64	377,864.38	729,727.86	32.037°N	103.592°W
3,300.00	0.68	92.45	3,299.71	-5.23	-8.35	377,864.37	729,728.15	32.037°N	103.592°W
3,325.00	0.68	94.55	3,324.71	-5.25	-8.05	377,864.35	729,728.45	32.037°N	103.592°W
3,350.00	0.72	90.02	3,349.71	-5.26	-7.74	377,864.34	729,728.75	32.037°N	103.592°W
3,375.00	0.92	93.81	3,374.71	-5.27	-7.39	377,864.33	729,729.11	32.037°N	103.592°W
3,400.00	1.17	92.22	3,399.70	-5.29	-6.93	377,864.30	729,729.56	32.037°N	103.592°W
3,425.00	1.40	93.43	3,424.70	-5.32	-6.37	377,864.28	729,730.12	32.037°N	103.592°W
3,450.00	1.65	96.51	3,449.69	-5.38	-5.71	377,864.22	729,730.79	32.037°N	103.592°W
3,475.00	1.70	94.67	3,474.68	-5.45	-4.98	377,864.15	729,731.51	32.037°N	103.592°W
3,500.00	1.91	93.11	3,499.66	-5.50	-4.20	377,864.09	729,732.30	32.037°N	103.592°W
3,525.00	1.98	91.46	3,524.65	-5.54	-3.35	377,864.06	729,733.15	32.037°N	103.592°W
3,550.00	1.97	88.81	3,549.63	-5.54	-2.49	377,864.06	729,734.01	32.037°N	103.592°W
3,575.00	2.04	81.33	3,574.62	-5.46	-1.62	377,864.13	729,734.88	32.037°N	103.592°W
3,600.00	2.07	74.13	3,599.60	-5.27	-0.74	377,864.32	729,735.75	32.037°N	103.592°W
3,625.00	1.95	70.05	3,624.59	-5.01	0.09	377,864.59	729,736.59	32.037°N	103.592°W
3,650.00	1.90	68.78	3,649.57	-4.71	0.88	377,864.89	729,737.37	32.037°N	103.592°W
3,675.00	1.03	61.61	3,674.56	-4.45	1.46	377,865.15	729,737.96	32.037°N	103.592°W
3,700.00	0.89	58.34	3,699.56	-4.24	1.82	377,865.35	729,738.32	32.037°N	103.592°W
3,725.00	0.77	52.67	3,724.56	-4.04	2.12	377,865.56	729,738.62	32.037°N	103.592°W
3,750.00	0.79	51.01	3,749.56	-3.83	2.39	377,865.77	729,738.89	32.037°N	103.592°W
3,775.00	0.79	57.97	3,774.55	-3.63	2.67	377,865.97	729,739.17	32.037°N	103.592°W
3,800.00	0.79	53.35	3,799.55	-3.44	2.95	377,866.16	729,739.45	32.037°N	103.592°W
3,825.00	0.75	55.61	3,824.55	-3.24	3.23	377,866.36	729,739.72	32.037°N	103.592°W
3,850.00	0.76	54.01	3,849.55	-3.05	3.50	377,866.55	729,739.99	32.037°N	103.592°W
3,875.00	0.77	57.11	3,874.55	-2.86	3.77	377,866.74	729,740.27	32.037°N	103.592°W
3,900.00	0.79	50.78	3,899.54	-2.66	4.05	377,866.94	729,740.54	32.037°N	103.592°W
3,925.00	0.80	55.00	3,924.54	-2.45	4.32	377,867.15	729,740.82	32.037°N	103.592°W
3,950.00	0.74	57.19	3,949.54	-2.27	4.60	377,867.33	729,741.10	32.037°N	103.592°W
3,975.00	0.78	59.85	3,974.54	-2.09	4.88	377,867.51	729,741.38	32.037°N	103.592°W
4,000.00	0.76	52.99	3,999.53	-1.91	5.16	377,867.69	729,741.66	32.037°N	103.592°W
4,025.00	0.76	51.83	4,024.53	-1.71	5.43	377,867.89	729,741.92	32.037°N	103.592°W
4,050.00	0.74	57.08	4,049.53	-1.52	5.69	377,868.08	729,742.19	32.037°N	103.592°W
4,075.00	0.68	52.30	4,074.53	-1.34	5.95	377,868.26	729,742.44	32.037°N	103.592°W
4,100.00	0.77	55.28	4,099.53	-1.15	6.20	377,868.45	729,742.70	32.037°N	103.592°W
4,125.00	0.73	62.51	4,124.52	-0.98	6.48	377,868.62	729,742.98	32.037°N	103.592°W
4,150.00	0.68	64.57	4,149.52	-0.84	6.76	377,868.75	729,743.25	32.037°N	103.592°W
4,175.00	0.78	83.52	4,174.52	-0.76	7.06	377,868.84	729,743.55	32.037°N	103.592°W
4,200.00	0.83	84.10	4,199.52	-0.72	7.41	377,868.88	729,743.90	32.037°N	103.592°W
4,225.00	0.81	84.43	4,224.51	-0.69	7.76	377,868.91	729,744.26	32.037°N	103.592°W
4,250.00	0.78	81.45	4,249.51	-0.64	8.11	377,868.95	729,744.60	32.037°N	103.592°W
4,275.00	0.78	85.22	4,274.51	-0.61	8.45	377,868.99	729,744.94	32.037°N	103.592°W
4,300.00	0.75	83.64	4,299.51	-0.57	8.78	377,869.03	729,745.27	32.037°N	103.592°W
4,325.00	0.48	105.60	4,324.51	-0.58	9.04	377,869.02	729,745.54	32.037°N	103.592°W
4,350.00	0.42	160.62	4,349.51	-0.70	9.17	377,868.90	729,745.67	32.037°N	103.592°W
4,375.00	0.56	168.71	4,374.50	-0.90	9.23	377,868.69	729,745.72	32.037°N	103.592°W
4,400.00	0.62	175.77	4,399.50	-1.16	9.26	377,868.44	729,745.76	32.037°N	103.592°W
4,425.00	0.80	169.03	4,424.50	-1.46	9.30	377,868.13	729,745.80	32.037°N	103.592°W
4,450.00	0.97	168.69	4,449.50	-1.84	9.38	377,867.75	729,745.87	32.037°N	103.592°W



Survey Report - Geographic

Company:	Concho Operating	Local Co-ordinate Reference:	Well VAST State 26H
Project:	Lea County, NM (Nad 27)	TVD Reference:	GL 3262 + 28' RKB @ 3290.00ft
Site:	VAST State	MD Reference:	GL 3262 + 28' RKB @ 3290.00ft
Well:	VAST State 26H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.14 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
4,475.00	1.10	163.83	4,474.49	-2.28	9.49	377,867.32	729,745.98	32.037°N	103.592°W
4,500.00	1.31	168.29	4,499.49	-2.79	9.61	377,866.81	729,746.11	32.037°N	103.592°W
4,525.00	1.44	162.52	4,524.48	-3.37	9.76	377,866.23	729,746.26	32.037°N	103.592°W
4,550.00	1.33	162.41	4,549.47	-3.95	9.95	377,865.65	729,746.44	32.037°N	103.592°W
4,575.00	1.45	159.58	4,574.47	-4.52	10.14	377,865.08	729,746.64	32.037°N	103.592°W
4,600.00	1.26	164.34	4,599.46	-5.08	10.33	377,864.52	729,746.82	32.037°N	103.592°W
4,625.00	0.75	168.66	4,624.46	-5.51	10.43	377,864.09	729,746.93	32.037°N	103.592°W
4,650.00	0.38	177.90	4,649.45	-5.75	10.47	377,863.85	729,746.97	32.037°N	103.592°W
4,675.00	0.31	185.71	4,674.45	-5.90	10.47	377,863.70	729,746.96	32.037°N	103.592°W
4,700.00	0.37	182.69	4,699.45	-6.05	10.46	377,863.55	729,746.95	32.037°N	103.592°W
4,725.00	0.40	186.64	4,724.45	-6.22	10.44	377,863.38	729,746.94	32.037°N	103.592°W
4,750.00	0.40	180.08	4,749.45	-6.39	10.43	377,863.21	729,746.93	32.037°N	103.592°W
4,775.00	0.43	180.88	4,774.45	-6.57	10.43	377,863.03	729,746.93	32.037°N	103.592°W
4,800.00	0.42	187.47	4,799.45	-6.76	10.42	377,862.84	729,746.91	32.037°N	103.592°W
4,825.00	0.37	191.55	4,824.45	-6.93	10.39	377,862.67	729,746.89	32.037°N	103.592°W
4,850.00	0.30	209.00	4,849.45	-7.06	10.34	377,862.54	729,746.84	32.037°N	103.592°W
4,875.00	0.35	195.75	4,874.45	-7.19	10.29	377,862.41	729,746.78	32.037°N	103.592°W
4,900.00	0.32	191.98	4,899.45	-7.33	10.25	377,862.26	729,746.75	32.037°N	103.592°W
4,925.00	0.36	198.26	4,924.45	-7.48	10.21	377,862.12	729,746.71	32.037°N	103.592°W
4,950.00	0.34	200.17	4,949.45	-7.62	10.16	377,861.98	729,746.66	32.037°N	103.592°W
4,975.00	0.25	187.16	4,974.45	-7.74	10.13	377,861.85	729,746.63	32.037°N	103.592°W
5,000.00	0.36	211.48	4,999.45	-7.87	10.08	377,861.73	729,746.58	32.037°N	103.592°W
5,025.00	0.35	194.15	5,024.45	-8.01	10.02	377,861.59	729,746.52	32.037°N	103.592°W
5,050.00	0.37	201.26	5,049.45	-8.16	9.98	377,861.44	729,746.47	32.037°N	103.592°W
5,075.00	0.28	202.77	5,074.45	-8.29	9.92	377,861.31	729,746.42	32.037°N	103.592°W
5,100.00	0.40	199.64	5,099.45	-8.43	9.87	377,861.17	729,746.37	32.037°N	103.592°W
5,125.00	0.31	203.57	5,124.45	-8.57	9.81	377,861.03	729,746.31	32.037°N	103.592°W
5,150.00	0.39	203.53	5,149.44	-8.71	9.75	377,860.89	729,746.25	32.037°N	103.592°W
5,175.00	0.32	200.64	5,174.44	-8.85	9.69	377,860.74	729,746.19	32.037°N	103.592°W
5,200.00	0.31	194.17	5,199.44	-8.98	9.65	377,860.61	729,746.15	32.037°N	103.592°W
5,225.00	0.38	201.22	5,224.44	-9.13	9.61	377,860.47	729,746.10	32.037°N	103.592°W
5,250.00	0.34	200.33	5,249.44	-9.27	9.55	377,860.32	729,746.05	32.037°N	103.592°W
5,275.00	0.44	201.43	5,274.44	-9.43	9.49	377,860.17	729,745.99	32.037°N	103.592°W
5,300.00	0.29	201.83	5,299.44	-9.58	9.43	377,860.02	729,745.93	32.037°N	103.592°W
5,325.00	0.39	207.39	5,324.44	-9.72	9.37	377,859.88	729,745.86	32.037°N	103.592°W
5,350.00	0.48	236.03	5,349.44	-9.85	9.24	377,859.75	729,745.74	32.037°N	103.592°W
5,375.00	0.89	243.58	5,374.44	-9.99	8.98	377,859.60	729,745.48	32.037°N	103.592°W
5,400.00	1.09	246.49	5,399.44	-10.18	8.59	377,859.42	729,745.09	32.037°N	103.592°W
5,425.00	1.14	247.85	5,424.43	-10.36	8.14	377,859.23	729,744.64	32.037°N	103.592°W
5,450.00	1.07	230.74	5,449.43	-10.61	7.73	377,858.99	729,744.23	32.037°N	103.592°W
5,475.00	1.06	246.89	5,474.42	-10.84	7.34	377,858.75	729,743.83	32.037°N	103.592°W
5,500.00	1.09	248.24	5,499.42	-11.02	6.90	377,858.58	729,743.40	32.037°N	103.592°W
5,525.00	1.14	245.43	5,524.41	-11.21	6.46	377,858.38	729,742.95	32.037°N	103.592°W
5,550.00	1.12	247.03	5,549.41	-11.41	6.01	377,858.18	729,742.50	32.037°N	103.592°W
5,575.00	1.13	248.85	5,574.40	-11.60	5.55	377,858.00	729,742.05	32.037°N	103.592°W
5,600.00	1.16	247.30	5,599.40	-11.78	5.09	377,857.81	729,741.58	32.037°N	103.592°W
5,625.00	1.14	248.02	5,624.39	-11.98	4.62	377,857.62	729,741.12	32.037°N	103.592°W
5,650.00	1.12	246.64	5,649.39	-12.17	4.17	377,857.43	729,740.66	32.037°N	103.592°W
5,675.00	1.19	245.73	5,674.38	-12.37	3.71	377,857.23	729,740.20	32.037°N	103.592°W
5,700.00	1.17	245.22	5,699.38	-12.58	3.24	377,857.02	729,739.74	32.037°N	103.592°W
5,725.00	1.11	243.59	5,724.37	-12.80	2.79	377,856.80	729,739.29	32.037°N	103.592°W
5,750.00	1.13	248.00	5,749.37	-13.00	2.34	377,856.60	729,738.84	32.037°N	103.592°W
5,775.00	1.07	254.30	5,774.36	-13.15	1.89	377,856.45	729,738.39	32.037°N	103.592°W
5,800.00	1.01	256.17	5,799.36	-13.27	1.45	377,856.33	729,737.95	32.037°N	103.592°W
5,825.00	1.02	259.02	5,824.36	-13.36	1.02	377,856.23	729,737.52	32.037°N	103.592°W



Survey Report - Geographic

Company:	Concho Operating	Local Co-ordinate Reference:	Well VAST State 26H
Project:	Lea County, NM (Nad 27)	TVD Reference:	GL 3262 + 28' RKB @ 3290.00ft
Site:	VAST State	MD Reference:	GL 3262 + 28' RKB @ 3290.00ft
Well:	VAST State 26H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.14 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,850.00	1.10	258.70	5,849.35	-13.45	0.57	377,856.15	729,737.06	32.037°N	103.592°W
5,875.00	1.00	254.59	5,874.35	-13.56	0.12	377,856.04	729,736.62	32.037°N	103.592°W
5,900.00	0.97	253.01	5,899.34	-13.68	-0.29	377,855.92	729,736.20	32.037°N	103.592°W
5,925.00	1.06	259.47	5,924.34	-13.78	-0.72	377,855.82	729,735.77	32.037°N	103.592°W
5,950.00	1.03	259.49	5,949.33	-13.87	-1.17	377,855.73	729,735.33	32.037°N	103.592°W
5,975.00	0.94	257.42	5,974.33	-13.95	-1.59	377,855.65	729,734.91	32.037°N	103.592°W
6,000.00	1.01	253.43	5,999.33	-14.06	-2.00	377,855.54	729,734.49	32.037°N	103.592°W
6,025.00	1.02	254.65	6,024.32	-14.18	-2.43	377,855.42	729,734.07	32.037°N	103.592°W
6,050.00	1.00	257.61	6,049.32	-14.29	-2.86	377,855.31	729,733.64	32.037°N	103.592°W
6,075.00	1.01	254.03	6,074.32	-14.39	-3.28	377,855.21	729,733.22	32.037°N	103.592°W
6,100.00	0.94	252.59	6,099.31	-14.52	-3.69	377,855.08	729,732.81	32.037°N	103.592°W
6,125.00	0.90	247.55	6,124.31	-14.65	-4.06	377,854.95	729,732.43	32.037°N	103.592°W
6,150.00	0.90	248.73	6,149.31	-14.80	-4.43	377,854.80	729,732.07	32.037°N	103.592°W
6,175.00	0.87	250.03	6,174.30	-14.93	-4.79	377,854.66	729,731.71	32.037°N	103.592°W
6,200.00	0.96	249.92	6,199.30	-15.07	-5.17	377,854.53	729,731.33	32.037°N	103.592°W
6,225.00	0.91	249.36	6,224.30	-15.21	-5.55	377,854.39	729,730.95	32.037°N	103.592°W
6,250.00	0.84	250.79	6,249.29	-15.34	-5.91	377,854.26	729,730.59	32.037°N	103.592°W
6,275.00	0.92	245.75	6,274.29	-15.49	-6.26	377,854.11	729,730.23	32.037°N	103.592°W
6,300.00	0.98	248.86	6,299.29	-15.64	-6.65	377,853.95	729,729.85	32.037°N	103.592°W
6,325.00	0.85	245.08	6,324.28	-15.80	-7.01	377,853.80	729,729.48	32.037°N	103.592°W
6,350.00	0.86	248.99	6,349.28	-15.95	-7.36	377,853.65	729,729.14	32.037°N	103.592°W
6,375.00	0.84	245.04	6,374.28	-16.09	-7.70	377,853.51	729,728.80	32.037°N	103.592°W
6,400.00	0.80	242.23	6,399.28	-16.25	-8.02	377,853.35	729,728.48	32.037°N	103.592°W
6,425.00	0.84	246.28	6,424.27	-16.40	-8.34	377,853.19	729,728.16	32.037°N	103.592°W
6,450.00	0.77	246.85	6,449.27	-16.54	-8.66	377,853.05	729,727.83	32.037°N	103.592°W
6,475.00	0.81	246.67	6,474.27	-16.68	-8.98	377,852.92	729,727.52	32.037°N	103.592°W
6,500.00	0.81	240.93	6,499.27	-16.84	-9.30	377,852.76	729,727.20	32.037°N	103.592°W
6,525.00	0.83	242.29	6,524.26	-17.01	-9.61	377,852.59	729,726.89	32.037°N	103.592°W
6,550.00	0.77	237.89	6,549.26	-17.18	-9.91	377,852.42	729,726.58	32.037°N	103.592°W
6,575.00	0.77	243.04	6,574.26	-17.34	-10.21	377,852.25	729,726.29	32.037°N	103.592°W
6,600.00	0.77	240.45	6,599.26	-17.50	-10.50	377,852.10	729,725.99	32.037°N	103.592°W
6,625.00	0.79	245.33	6,624.25	-17.66	-10.80	377,851.94	729,725.69	32.037°N	103.592°W
6,650.00	0.78	245.17	6,649.25	-17.80	-11.12	377,851.80	729,725.38	32.037°N	103.592°W
6,675.00	0.79	242.19	6,674.25	-17.95	-11.42	377,851.65	729,725.07	32.037°N	103.592°W
6,700.00	0.84	239.30	6,699.25	-18.13	-11.73	377,851.47	729,724.76	32.037°N	103.592°W
6,725.00	0.76	245.87	6,724.24	-18.29	-12.04	377,851.31	729,724.46	32.037°N	103.592°W
6,750.00	0.77	239.64	6,749.24	-18.44	-12.34	377,851.16	729,724.16	32.037°N	103.592°W
6,775.00	0.79	240.30	6,774.24	-18.61	-12.63	377,850.99	729,723.86	32.037°N	103.592°W
6,800.00	0.78	240.76	6,799.24	-18.78	-12.93	377,850.82	729,723.57	32.037°N	103.592°W
6,825.00	0.79	240.85	6,824.24	-18.95	-13.23	377,850.65	729,723.27	32.037°N	103.592°W
6,850.00	0.77	245.17	6,849.23	-19.10	-13.53	377,850.50	729,722.96	32.037°N	103.592°W
6,875.00	0.76	240.57	6,874.23	-19.25	-13.83	377,850.34	729,722.67	32.037°N	103.592°W
6,900.00	0.78	247.00	6,899.23	-19.40	-14.13	377,850.20	729,722.37	32.037°N	103.592°W
6,925.00	0.86	242.72	6,924.23	-19.55	-14.45	377,850.04	729,722.04	32.037°N	103.592°W
6,950.00	0.80	237.96	6,949.22	-19.73	-14.77	377,849.87	729,721.73	32.037°N	103.592°W
6,975.00	0.83	240.08	6,974.22	-19.92	-15.07	377,849.68	729,721.42	32.037°N	103.592°W
7,000.00	0.83	240.15	6,999.22	-20.10	-15.39	377,849.50	729,721.11	32.037°N	103.592°W
7,025.00	0.82	239.36	7,024.22	-20.28	-15.70	377,849.32	729,720.80	32.037°N	103.592°W
7,050.00	0.80	243.84	7,049.21	-20.45	-16.01	377,849.15	729,720.49	32.037°N	103.592°W
7,075.00	0.84	242.82	7,074.21	-20.61	-16.33	377,848.99	729,720.17	32.037°N	103.592°W
7,100.00	0.77	242.31	7,099.21	-20.77	-16.64	377,848.83	729,719.86	32.037°N	103.592°W
7,125.00	0.83	246.55	7,124.21	-20.92	-16.95	377,848.68	729,719.54	32.037°N	103.592°W
7,150.00	0.83	240.63	7,149.20	-21.08	-17.28	377,848.52	729,719.22	32.037°N	103.592°W
7,175.00	1.01	225.15	7,174.20	-21.32	-17.59	377,848.28	729,718.90	32.037°N	103.592°W
7,200.00	1.01	237.81	7,199.20	-21.60	-17.94	377,848.00	729,718.56	32.037°N	103.592°W



Survey Report - Geographic

Company:	Concho Operating	Local Co-ordinate Reference:	Well VAST State 26H
Project:	Lea County, NM (Nad 27)	TVD Reference:	GL 3262 + 28' RKB @ 3290.00ft
Site:	VAST State	MD Reference:	GL 3262 + 28' RKB @ 3290.00ft
Well:	VAST State 26H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.14 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
7,225.00	0.96	238.65	7,224.19	-21.82	-18.30	377,847.78	729,718.20	32.037°N	103.592°W
7,250.00	0.90	244.09	7,249.19	-22.02	-18.66	377,847.58	729,717.84	32.037°N	103.592°W
7,275.00	0.86	241.66	7,274.19	-22.19	-19.00	377,847.41	729,717.50	32.037°N	103.592°W
7,300.00	0.87	240.13	7,299.18	-22.38	-19.33	377,847.22	729,717.17	32.037°N	103.592°W
7,325.00	0.82	240.14	7,324.18	-22.56	-19.65	377,847.04	729,716.85	32.037°N	103.592°W
7,350.00	0.83	237.06	7,349.18	-22.75	-19.95	377,846.85	729,716.54	32.037°N	103.592°W
7,375.00	0.77	234.45	7,374.18	-22.94	-20.24	377,846.66	729,716.25	32.037°N	103.592°W
7,400.00	0.74	235.15	7,399.17	-23.13	-20.51	377,846.47	729,715.98	32.037°N	103.592°W
7,425.00	0.75	232.98	7,424.17	-23.32	-20.78	377,846.28	729,715.72	32.037°N	103.592°W
7,450.00	0.60	230.42	7,449.17	-23.51	-21.01	377,846.09	729,715.49	32.037°N	103.592°W
7,475.00	0.65	222.18	7,474.17	-23.69	-21.20	377,845.90	729,715.29	32.037°N	103.592°W
7,500.00	0.62	216.32	7,499.17	-23.91	-21.38	377,845.69	729,715.12	32.037°N	103.592°W
7,525.00	0.51	210.67	7,524.17	-24.11	-21.52	377,845.49	729,714.98	32.037°N	103.592°W
7,550.00	0.51	210.42	7,549.16	-24.30	-21.63	377,845.29	729,714.87	32.037°N	103.592°W
7,575.00	0.51	206.49	7,574.16	-24.50	-21.73	377,845.10	729,714.76	32.037°N	103.592°W
7,600.00	0.50	211.42	7,599.16	-24.69	-21.84	377,844.91	729,714.66	32.037°N	103.592°W
7,625.00	0.47	200.86	7,624.16	-24.88	-21.93	377,844.72	729,714.56	32.037°N	103.592°W
7,650.00	0.43	198.38	7,649.16	-25.07	-22.00	377,844.53	729,714.50	32.037°N	103.592°W
7,675.00	0.51	206.77	7,674.16	-25.25	-22.08	377,844.34	729,714.42	32.037°N	103.592°W
7,700.00	0.45	191.47	7,699.16	-25.45	-22.15	377,844.15	729,714.35	32.037°N	103.592°W
7,725.00	0.40	193.24	7,724.16	-25.63	-22.19	377,843.97	729,714.31	32.037°N	103.592°W
7,750.00	0.41	190.04	7,749.16	-25.80	-22.22	377,843.79	729,714.27	32.037°N	103.592°W
7,775.00	0.41	181.83	7,774.16	-25.98	-22.24	377,843.62	729,714.25	32.037°N	103.592°W
7,800.00	0.40	183.33	7,799.16	-26.16	-22.25	377,843.44	729,714.25	32.037°N	103.592°W
7,825.00	0.36	182.90	7,824.16	-26.32	-22.26	377,843.27	729,714.24	32.037°N	103.592°W
7,850.00	0.40	184.91	7,849.16	-26.49	-22.27	377,843.11	729,714.22	32.037°N	103.592°W
7,875.00	0.37	188.29	7,874.15	-26.66	-22.29	377,842.94	729,714.21	32.037°N	103.592°W
7,900.00	0.47	205.35	7,899.15	-26.83	-22.35	377,842.77	729,714.15	32.037°N	103.592°W
7,925.00	0.89	231.27	7,924.15	-27.04	-22.54	377,842.56	729,713.95	32.037°N	103.592°W
7,950.00	1.29	232.50	7,949.15	-27.34	-22.92	377,842.26	729,713.58	32.037°N	103.592°W
7,975.00	1.39	232.93	7,974.14	-27.69	-23.38	377,841.91	729,713.12	32.037°N	103.592°W
8,000.00	1.58	229.79	7,999.13	-28.09	-23.89	377,841.50	729,712.61	32.037°N	103.592°W
8,025.00	2.04	228.74	8,024.12	-28.61	-24.48	377,840.99	729,712.01	32.037°N	103.592°W
8,050.00	2.22	227.61	8,049.10	-29.23	-25.18	377,840.37	729,711.32	32.037°N	103.592°W
8,075.00	2.19	228.17	8,074.08	-29.88	-25.89	377,839.72	729,710.61	32.037°N	103.592°W
8,100.00	2.24	226.28	8,099.07	-30.53	-26.60	377,839.07	729,709.90	32.037°N	103.592°W
8,125.00	2.22	227.66	8,124.05	-31.20	-27.31	377,838.40	729,709.19	32.037°N	103.592°W
8,150.00	2.20	227.77	8,149.03	-31.84	-28.02	377,837.75	729,708.47	32.037°N	103.592°W
8,175.00	2.19	227.36	8,174.01	-32.49	-28.73	377,837.11	729,707.77	32.037°N	103.592°W
8,200.00	2.41	229.69	8,198.99	-33.15	-29.48	377,836.44	729,707.01	32.037°N	103.592°W
8,225.00	2.44	228.72	8,223.97	-33.85	-30.28	377,835.75	729,706.21	32.037°N	103.592°W
8,250.00	2.45	230.01	8,248.94	-34.54	-31.09	377,835.06	729,705.40	32.037°N	103.592°W
8,275.00	2.63	231.62	8,273.92	-35.24	-31.95	377,834.36	729,704.55	32.037°N	103.592°W
8,300.00	3.11	238.49	8,298.89	-35.95	-32.98	377,833.65	729,703.52	32.037°N	103.592°W
8,325.00	3.12	236.36	8,323.85	-36.68	-34.12	377,832.92	729,702.37	32.037°N	103.592°W
8,350.00	3.23	238.70	8,348.81	-37.42	-35.29	377,832.17	729,701.20	32.037°N	103.592°W
8,375.00	3.32	239.42	8,373.77	-38.16	-36.52	377,831.44	729,699.98	32.037°N	103.592°W
8,400.00	3.43	239.98	8,398.73	-38.90	-37.79	377,830.70	729,698.71	32.037°N	103.592°W
8,425.00	3.47	239.84	8,423.68	-39.65	-39.09	377,829.94	729,697.41	32.037°N	103.592°W
8,450.00	3.39	240.44	8,448.64	-40.40	-40.39	377,829.20	729,696.11	32.037°N	103.592°W
8,475.00	3.75	241.78	8,473.59	-41.15	-41.75	377,828.45	729,694.75	32.037°N	103.592°W
8,500.00	4.08	244.97	8,498.53	-41.91	-43.28	377,827.68	729,693.22	32.037°N	103.592°W
8,525.00	4.18	242.83	8,523.47	-42.71	-44.89	377,826.89	729,691.60	32.037°N	103.592°W
8,550.00	4.16	244.51	8,548.40	-43.51	-46.52	377,826.09	729,689.98	32.037°N	103.592°W
8,575.00	4.06	243.70	8,573.34	-44.29	-48.13	377,825.30	729,688.36	32.037°N	103.592°W



Survey Report - Geographic

Company:	Concho Operating	Local Co-ordinate Reference:	Well VAST State 26H
Project:	Lea County, NM (Nad 27)	TVD Reference:	GL 3262 + 28' RKB @ 3290.00ft
Site:	VAST State	MD Reference:	GL 3262 + 28' RKB @ 3290.00ft
Well:	VAST State 26H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.14 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
8,600.00	4.15	244.80	8,598.27	-45.07	-49.75	377,824.53	729,686.75	32.037°N	103.592°W
8,625.00	3.96	243.65	8,623.21	-45.84	-51.34	377,823.76	729,685.16	32.037°N	103.592°W
8,650.00	4.10	241.59	8,648.15	-46.65	-52.90	377,822.95	729,683.60	32.037°N	103.592°W
8,675.00	4.05	242.89	8,673.08	-47.48	-54.47	377,822.12	729,682.03	32.037°N	103.592°W
8,700.00	4.07	242.86	8,698.02	-48.28	-56.04	377,821.32	729,680.45	32.037°N	103.592°W
8,725.00	4.05	243.00	8,722.96	-49.09	-57.62	377,820.51	729,678.88	32.037°N	103.592°W
8,750.00	4.47	242.04	8,747.89	-49.95	-59.27	377,819.65	729,677.23	32.037°N	103.592°W
8,775.00	5.11	240.74	8,772.80	-50.95	-61.10	377,818.65	729,675.40	32.037°N	103.592°W
8,800.00	5.13	239.97	8,797.70	-52.05	-63.04	377,817.55	729,673.46	32.037°N	103.592°W
8,825.00	5.15	240.61	8,822.60	-53.16	-64.98	377,816.44	729,671.51	32.037°N	103.592°W
8,850.00	5.10	240.48	8,847.50	-54.26	-66.93	377,815.34	729,669.57	32.037°N	103.592°W
8,875.00	5.12	239.71	8,872.40	-55.37	-68.86	377,814.23	729,667.64	32.037°N	103.592°W
8,900.00	5.00	240.15	8,897.31	-56.47	-70.77	377,813.12	729,665.73	32.037°N	103.592°W
8,925.00	4.73	239.24	8,922.22	-57.54	-72.60	377,812.06	729,663.90	32.037°N	103.592°W
8,950.00	4.67	240.09	8,947.13	-58.58	-74.36	377,811.02	729,662.13	32.037°N	103.592°W
8,975.00	4.64	238.20	8,972.05	-59.62	-76.11	377,809.98	729,660.39	32.037°N	103.592°W
9,000.00	4.49	237.79	8,996.97	-60.67	-77.79	377,808.93	729,658.70	32.037°N	103.592°W
9,025.00	4.51	237.76	9,021.89	-61.72	-79.45	377,807.88	729,657.04	32.037°N	103.592°W
9,050.00	4.58	238.34	9,046.81	-62.77	-81.13	377,806.83	729,655.36	32.037°N	103.592°W
9,075.00	4.54	238.45	9,071.74	-63.81	-82.83	377,805.79	729,653.67	32.037°N	103.592°W
9,100.00	4.57	239.18	9,096.66	-64.84	-84.53	377,804.76	729,651.97	32.037°N	103.592°W
9,125.00	4.63	237.96	9,121.58	-65.88	-86.24	377,803.72	729,650.26	32.037°N	103.592°W
9,150.00	4.57	237.76	9,146.50	-66.95	-87.93	377,802.65	729,648.56	32.037°N	103.592°W
9,175.00	4.50	236.73	9,171.42	-68.02	-89.60	377,801.58	729,646.90	32.037°N	103.592°W
9,200.00	4.49	235.45	9,196.34	-69.11	-91.22	377,800.49	729,645.27	32.037°N	103.592°W
9,225.00	4.57	234.32	9,221.26	-70.25	-92.84	377,799.35	729,643.66	32.037°N	103.592°W
9,250.00	5.11	230.31	9,246.17	-71.54	-94.50	377,798.06	729,641.99	32.037°N	103.592°W
9,275.00	5.25	227.37	9,271.07	-73.02	-96.20	377,796.57	729,640.30	32.037°N	103.592°W
9,300.00	5.21	227.66	9,295.97	-74.56	-97.88	377,795.03	729,638.61	32.037°N	103.592°W
9,325.00	5.27	227.48	9,320.86	-76.10	-99.57	377,793.49	729,636.93	32.037°N	103.592°W
9,350.00	5.25	226.65	9,345.76	-77.67	-101.24	377,791.93	729,635.25	32.036°N	103.592°W
9,375.00	5.16	226.08	9,370.65	-79.23	-102.89	377,790.37	729,633.61	32.036°N	103.592°W
9,400.00	5.04	225.07	9,395.55	-80.79	-104.47	377,788.81	729,632.02	32.036°N	103.592°W
9,425.00	4.87	224.18	9,420.46	-82.32	-105.99	377,787.28	729,630.51	32.036°N	103.592°W
9,450.00	4.79	223.22	9,445.37	-83.84	-107.44	377,785.75	729,629.05	32.036°N	103.592°W
9,475.00	4.57	220.15	9,470.29	-85.37	-108.80	377,784.23	729,627.69	32.036°N	103.592°W
9,500.00	4.25	218.28	9,495.22	-86.85	-110.02	377,782.74	729,626.48	32.036°N	103.592°W
9,525.00	4.08	216.76	9,520.15	-88.29	-111.12	377,781.30	729,625.37	32.036°N	103.592°W
9,550.00	4.00	215.73	9,545.09	-89.71	-112.17	377,779.88	729,624.33	32.036°N	103.592°W
9,575.00	4.02	215.87	9,570.03	-91.13	-113.19	377,778.47	729,623.31	32.036°N	103.592°W
9,600.00	4.28	217.31	9,594.96	-92.58	-114.27	377,777.01	729,622.23	32.036°N	103.592°W
9,625.00	4.76	219.62	9,619.88	-94.13	-115.49	377,775.47	729,621.00	32.036°N	103.592°W
9,650.00	4.78	220.47	9,644.80	-95.72	-116.83	377,773.88	729,619.67	32.036°N	103.592°W
9,675.00	4.87	219.92	9,669.71	-97.32	-118.19	377,772.28	729,618.31	32.036°N	103.592°W
9,700.00	4.61	219.57	9,694.62	-98.91	-119.51	377,770.69	729,616.99	32.036°N	103.592°W
9,725.00	4.37	220.05	9,719.54	-100.41	-120.76	377,769.18	729,615.73	32.036°N	103.592°W
9,750.00	4.02	220.50	9,744.48	-101.81	-121.94	377,767.79	729,614.55	32.036°N	103.592°W
9,775.00	3.94	219.28	9,769.42	-103.14	-123.06	377,766.46	729,613.44	32.036°N	103.592°W
9,800.00	3.96	220.31	9,794.36	-104.46	-124.16	377,765.13	729,612.34	32.036°N	103.592°W
9,825.00	3.90	220.09	9,819.30	-105.77	-125.27	377,763.83	729,611.23	32.036°N	103.592°W
9,850.00	3.81	219.19	9,844.24	-107.07	-126.34	377,762.53	729,610.16	32.036°N	103.592°W
9,875.00	3.71	218.40	9,869.19	-108.35	-127.37	377,761.25	729,609.13	32.036°N	103.592°W
9,900.00	3.53	215.82	9,894.14	-109.60	-128.32	377,760.00	729,608.18	32.036°N	103.592°W
9,925.00	3.55	216.09	9,919.09	-110.85	-129.22	377,758.75	729,607.27	32.036°N	103.592°W
9,950.00	3.54	217.61	9,944.04	-112.09	-130.15	377,757.51	729,606.35	32.036°N	103.592°W



Survey Report - Geographic

Company:	Concho Operating	Local Co-ordinate Reference:	Well VAST State 26H
Project:	Lea County, NM (Nad 27)	TVD Reference:	GL 3262 + 28' RKB @ 3290.00ft
Site:	VAST State	MD Reference:	GL 3262 + 28' RKB @ 3290.00ft
Well:	VAST State 26H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.14 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
9,975.00	3.77	219.18	9,968.99	-113.34	-131.14	377,756.26	729,605.36	32.036°N	103.592°W
10,000.00	4.28	222.02	9,993.93	-114.67	-132.29	377,754.93	729,604.21	32.036°N	103.592°W
10,025.00	4.38	222.55	10,018.86	-116.06	-133.56	377,753.53	729,602.94	32.036°N	103.592°W
10,050.00	4.44	222.51	10,043.79	-117.48	-134.85	377,752.12	729,601.64	32.036°N	103.592°W
10,075.00	4.54	222.81	10,068.71	-118.92	-136.18	377,750.68	729,600.32	32.036°N	103.592°W
10,100.00	4.51	222.77	10,093.63	-120.37	-137.52	377,749.23	729,598.98	32.036°N	103.592°W
10,125.00	4.32	221.77	10,118.56	-121.79	-138.82	377,747.81	729,597.68	32.036°N	103.592°W
10,150.00	4.21	221.96	10,143.49	-123.18	-140.06	377,746.42	729,596.44	32.036°N	103.592°W
10,175.00	4.13	223.00	10,168.42	-124.52	-141.28	377,745.08	729,595.21	32.036°N	103.592°W
10,200.00	4.03	223.93	10,193.36	-125.81	-142.51	377,743.79	729,593.99	32.036°N	103.592°W
10,225.00	3.95	223.92	10,218.30	-127.06	-143.71	377,742.54	729,592.78	32.036°N	103.592°W
10,250.00	3.93	225.41	10,243.24	-128.28	-144.92	377,741.32	729,591.58	32.036°N	103.592°W
10,275.00	3.92	225.65	10,268.18	-129.48	-146.14	377,740.12	729,590.35	32.036°N	103.592°W
10,300.00	4.02	227.21	10,293.12	-130.67	-147.40	377,738.92	729,589.10	32.036°N	103.592°W
10,325.00	4.04	228.19	10,318.06	-131.86	-148.70	377,737.74	729,587.80	32.036°N	103.592°W
10,350.00	4.16	230.23	10,342.99	-133.02	-150.05	377,736.58	729,586.45	32.036°N	103.592°W
10,375.00	4.45	233.50	10,367.92	-134.18	-151.53	377,735.42	729,584.97	32.036°N	103.592°W
10,400.00	4.45	235.67	10,392.85	-135.30	-153.11	377,734.29	729,583.39	32.036°N	103.592°W
10,425.00	4.55	234.36	10,417.77	-136.43	-154.71	377,733.17	729,581.78	32.036°N	103.592°W
10,450.00	4.65	234.54	10,442.69	-137.59	-156.34	377,732.00	729,580.15	32.036°N	103.592°W
10,475.00	4.69	234.45	10,467.61	-138.78	-158.00	377,730.82	729,578.49	32.036°N	103.592°W
10,500.00	4.71	234.44	10,492.52	-139.97	-159.67	377,729.63	729,576.83	32.036°N	103.592°W
10,525.00	4.63	234.03	10,517.44	-141.16	-161.32	377,728.44	729,575.18	32.036°N	103.592°W
10,550.00	4.58	234.81	10,542.36	-142.33	-162.95	377,727.27	729,573.54	32.036°N	103.592°W
10,575.00	4.56	233.66	10,567.28	-143.49	-164.57	377,726.11	729,571.93	32.036°N	103.592°W
10,600.00	4.55	234.75	10,592.20	-144.65	-166.18	377,724.95	729,570.32	32.036°N	103.592°W
10,625.00	4.50	235.60	10,617.12	-145.78	-167.80	377,723.82	729,568.70	32.036°N	103.592°W
10,650.00	4.18	240.94	10,642.05	-146.77	-169.40	377,722.82	729,567.09	32.036°N	103.592°W
10,675.00	4.00	244.60	10,666.99	-147.59	-170.99	377,722.01	729,565.51	32.036°N	103.592°W
10,700.00	3.85	245.58	10,691.93	-148.31	-172.54	377,721.29	729,563.96	32.036°N	103.593°W
10,725.00	3.72	245.82	10,716.88	-148.99	-174.04	377,720.61	729,562.45	32.036°N	103.593°W
10,750.00	3.66	247.96	10,741.82	-149.62	-175.52	377,719.98	729,560.97	32.036°N	103.593°W
10,775.00	3.59	248.93	10,766.77	-150.20	-176.99	377,719.40	729,559.50	32.036°N	103.593°W
10,800.00	3.43	250.69	10,791.73	-150.73	-178.43	377,718.87	729,558.07	32.036°N	103.593°W
10,825.00	3.31	253.96	10,816.68	-151.18	-179.83	377,718.42	729,556.67	32.036°N	103.593°W
10,850.00	3.31	255.00	10,841.64	-151.56	-181.22	377,718.03	729,555.28	32.036°N	103.593°W
10,875.00	3.30	254.74	10,866.60	-151.94	-182.61	377,717.66	729,553.89	32.036°N	103.593°W
10,900.00	3.26	255.23	10,891.56	-152.31	-183.99	377,717.29	729,552.50	32.036°N	103.593°W
10,925.00	3.23	255.76	10,916.52	-152.67	-185.36	377,716.93	729,551.13	32.036°N	103.593°W
10,950.00	3.29	253.42	10,941.48	-153.04	-186.73	377,716.55	729,549.76	32.036°N	103.593°W
10,975.00	3.33	252.81	10,966.44	-153.46	-188.11	377,716.14	729,548.38	32.036°N	103.593°W
11,000.00	3.28	253.07	10,991.40	-153.89	-189.49	377,715.71	729,547.01	32.036°N	103.593°W
11,025.00	3.33	252.14	11,016.35	-154.32	-190.87	377,715.28	729,545.63	32.036°N	103.593°W
11,050.00	3.30	252.26	11,041.31	-154.76	-192.24	377,714.84	729,544.25	32.036°N	103.593°W
11,075.00	3.47	252.07	11,066.27	-155.21	-193.65	377,714.39	729,542.85	32.036°N	103.593°W
11,100.00	3.36	252.42	11,091.22	-155.67	-195.07	377,713.93	729,541.43	32.036°N	103.593°W
11,125.00	3.40	252.35	11,116.18	-156.11	-196.47	377,713.49	729,540.03	32.036°N	103.593°W
11,150.00	3.32	253.10	11,141.14	-156.55	-197.87	377,713.05	729,538.63	32.036°N	103.593°W
11,175.00	3.30	254.95	11,166.10	-156.94	-199.26	377,712.65	729,537.24	32.036°N	103.593°W
11,200.00	3.35	255.75	11,191.05	-157.31	-200.66	377,712.29	729,535.84	32.036°N	103.593°W
11,225.00	3.53	254.44	11,216.01	-157.70	-202.11	377,711.90	729,534.39	32.036°N	103.593°W
11,250.00	3.72	255.05	11,240.96	-158.11	-203.64	377,711.49	729,532.86	32.036°N	103.593°W
11,275.00	3.70	255.63	11,265.91	-158.52	-205.20	377,711.08	729,531.30	32.036°N	103.593°W
11,300.00	3.72	256.93	11,290.85	-158.91	-206.77	377,710.69	729,529.73	32.036°N	103.593°W
11,325.00	3.70	254.69	11,315.80	-159.30	-208.34	377,710.30	729,528.16	32.036°N	103.593°W



Survey Report - Geographic

Company:	Concho Operating	Local Co-ordinate Reference:	Well VAST State 26H
Project:	Lea County, NM (Nad 27)	TVD Reference:	GL 3262 + 28' RKB @ 3290.00ft
Site:	VAST State	MD Reference:	GL 3262 + 28' RKB @ 3290.00ft
Well:	VAST State 26H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.14 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
11,350.00	3.81	255.37	11,340.75	-159.72	-209.92	377,709.87	729,526.58	32.036°N	103.593°W
11,375.00	3.90	256.30	11,365.69	-160.14	-211.55	377,709.46	729,524.95	32.036°N	103.593°W
11,400.00	3.83	254.35	11,390.63	-160.56	-213.18	377,709.04	729,523.32	32.036°N	103.593°W
11,425.00	3.81	254.45	11,415.58	-161.01	-214.79	377,708.59	729,521.71	32.036°N	103.593°W
11,450.00	3.90	254.47	11,440.52	-161.46	-216.40	377,708.14	729,520.09	32.036°N	103.593°W
11,475.00	3.72	257.82	11,465.47	-161.86	-218.02	377,707.74	729,518.48	32.036°N	103.593°W
11,500.00	3.74	253.19	11,490.41	-162.27	-219.59	377,707.33	729,516.91	32.036°N	103.593°W
11,525.00	3.65	253.51	11,515.36	-162.73	-221.13	377,706.87	729,515.36	32.036°N	103.593°W
11,550.00	3.53	254.31	11,540.31	-163.16	-222.64	377,706.44	729,513.86	32.036°N	103.593°W
11,575.00	3.34	254.91	11,565.27	-163.56	-224.08	377,706.04	729,512.42	32.036°N	103.593°W
11,600.00	3.19	254.32	11,590.23	-163.94	-225.45	377,705.66	729,511.04	32.036°N	103.593°W
11,604.00	3.18	253.87	11,594.22	-164.00	-225.67	377,705.60	729,510.83	32.036°N	103.593°W
11604' Tie into Gyro Survey									
11,781.00	3.17	254.08	11,770.95	-166.70	-235.09	377,702.89	729,501.41	32.036°N	103.593°W
11781' MD: Begin DrilTech MWD Survey									
11,844.00	3.34	251.79	11,833.85	-167.76	-238.51	377,701.84	729,497.99	32.036°N	103.593°W
11,933.00	3.34	258.30	11,922.70	-169.09	-243.51	377,700.51	729,492.99	32.036°N	103.593°W
11,985.00	3.34	256.10	11,974.61	-169.76	-246.46	377,699.84	729,490.03	32.036°N	103.593°W
12,032.00	5.28	323.25	12,021.50	-168.36	-249.09	377,701.24	729,487.41	32.036°N	103.593°W
12,080.00	10.29	340.65	12,069.05	-162.54	-251.83	377,707.06	729,484.66	32.036°N	103.593°W
12,127.00	13.45	344.87	12,115.04	-153.30	-254.65	377,716.30	729,481.85	32.036°N	103.593°W
12,174.00	21.98	346.45	12,159.77	-139.45	-258.14	377,730.15	729,478.35	32.036°N	103.593°W
12,221.00	27.35	348.91	12,202.47	-120.29	-262.29	377,749.31	729,474.21	32.036°N	103.593°W
12,268.00	36.40	357.79	12,242.36	-95.69	-264.91	377,773.91	729,471.59	32.036°N	103.593°W
12,315.00	43.26	0.34	12,278.43	-65.61	-265.35	377,803.98	729,471.15	32.037°N	103.593°W
12,361.00	49.68	357.79	12,310.10	-32.29	-265.93	377,837.31	729,470.56	32.037°N	103.593°W
12,408.00	58.21	355.95	12,337.74	5.61	-268.04	377,875.21	729,468.46	32.037°N	103.593°W
12,456.00	64.19	356.21	12,360.85	47.56	-270.91	377,917.15	729,465.59	32.037°N	103.593°W
12,503.00	66.57	357.53	12,380.43	90.21	-273.24	377,959.81	729,463.26	32.037°N	103.593°W
12,550.00	68.68	358.05	12,398.32	133.64	-274.91	378,003.24	729,461.58	32.037°N	103.593°W
12,597.00	72.02	359.46	12,414.13	177.89	-275.87	378,047.48	729,460.63	32.037°N	103.593°W
12,644.00	74.13	359.72	12,427.81	222.85	-276.19	378,092.44	729,460.31	32.037°N	103.593°W
12,691.00	76.77	1.66	12,439.62	268.33	-275.64	378,137.93	729,460.86	32.037°N	103.593°W
12,738.00	78.08	3.33	12,449.85	314.16	-273.64	378,183.75	729,462.86	32.038°N	103.593°W
12,785.00	79.23	3.15	12,459.09	360.16	-271.03	378,229.76	729,465.46	32.038°N	103.593°W
12,832.00	81.25	2.45	12,467.06	406.42	-268.77	378,276.02	729,467.72	32.038°N	103.593°W
12,879.00	83.80	1.39	12,473.18	452.99	-267.21	378,322.59	729,469.28	32.038°N	103.593°W
12,926.00	91.01	1.22	12,475.30	499.90	-266.14	378,369.50	729,470.35	32.038°N	103.593°W
12,971.00	93.91	0.87	12,473.37	544.85	-265.32	378,414.45	729,471.17	32.038°N	103.593°W
13,066.00	91.19	0.08	12,469.14	639.74	-264.54	378,509.34	729,471.96	32.038°N	103.593°W
13,160.00	89.25	359.81	12,468.78	733.74	-264.63	378,603.33	729,471.87	32.039°N	103.593°W
13,255.00	92.24	1.92	12,467.55	828.70	-263.20	378,698.30	729,473.30	32.039°N	103.593°W
13,348.00	91.98	2.36	12,464.12	921.57	-259.73	378,791.17	729,476.77	32.039°N	103.593°W
13,442.00	86.88	1.13	12,465.06	1,015.49	-256.86	378,885.09	729,479.63	32.040°N	103.593°W
13,537.00	87.58	1.83	12,469.65	1,110.35	-254.41	378,979.95	729,482.08	32.040°N	103.593°W
13,631.00	87.67	1.92	12,473.55	1,204.22	-251.34	379,073.81	729,485.16	32.040°N	103.593°W
13,725.00	90.75	1.92	12,474.84	1,298.14	-248.19	379,167.74	729,488.31	32.040°N	103.593°W
13,818.00	91.01	1.39	12,473.41	1,391.09	-245.51	379,260.69	729,490.99	32.041°N	103.593°W
13,913.00	93.03	2.45	12,470.06	1,485.98	-242.33	379,355.57	729,494.17	32.041°N	103.593°W
14,007.00	92.42	2.36	12,465.60	1,579.79	-238.39	379,449.38	729,498.11	32.041°N	103.593°W
14,101.00	91.36	1.57	12,462.50	1,673.68	-235.16	379,543.27	729,501.33	32.041°N	103.593°W
14,194.00	95.14	2.89	12,457.22	1,766.44	-231.55	379,636.03	729,504.94	32.042°N	103.593°W
14,289.00	90.57	358.85	12,452.49	1,861.27	-230.12	379,730.86	729,506.38	32.042°N	103.593°W
14,383.00	89.08	357.70	12,452.78	1,955.22	-232.95	379,824.81	729,503.55	32.042°N	103.593°W
14,477.00	89.69	357.18	12,453.79	2,049.12	-237.15	379,918.71	729,499.35	32.042°N	103.593°W



Survey Report - Geographic

Company:	Concho Operating	Local Co-ordinate Reference:	Well VAST State 26H
Project:	Lea County, NM (Nad 27)	TVD Reference:	GL 3262 + 28' RKB @ 3290.00ft
Site:	VAST State	MD Reference:	GL 3262 + 28' RKB @ 3290.00ft
Well:	VAST State 26H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.14 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
14,572.00	89.08	355.95	12,454.81	2,143.94	-242.84	380,013.53	729,493.66	32.043°N	103.593°W
14,666.00	89.60	355.68	12,455.89	2,237.68	-249.70	380,107.28	729,486.80	32.043°N	103.593°W
14,761.00	91.98	356.91	12,454.58	2,332.47	-255.84	380,202.06	729,480.66	32.043°N	103.593°W
14,855.00	91.71	355.77	12,451.55	2,426.22	-261.83	380,295.82	729,474.66	32.043°N	103.593°W
14,949.00	94.97	356.74	12,446.08	2,519.85	-267.96	380,389.44	729,468.53	32.044°N	103.593°W
15,044.00	95.32	355.59	12,437.56	2,614.25	-274.29	380,483.85	729,462.20	32.044°N	103.593°W
15,138.00	91.63	355.24	12,431.86	2,707.77	-281.79	380,577.36	729,454.71	32.044°N	103.593°W
15,233.00	92.07	355.59	12,428.79	2,802.41	-289.38	380,672.00	729,447.11	32.044°N	103.593°W
15,327.00	89.60	353.92	12,427.42	2,896.00	-297.97	380,765.59	729,438.52	32.045°N	103.593°W
15,421.00	90.66	355.86	12,427.21	2,989.62	-306.35	380,859.21	729,430.15	32.045°N	103.593°W
15,516.00	94.26	0.16	12,423.13	3,084.43	-309.64	380,954.03	729,426.85	32.045°N	103.593°W
15,610.00	94.26	359.99	12,416.15	3,178.17	-309.52	381,047.77	729,426.97	32.045°N	103.593°W
15,704.00	94.09	0.60	12,409.31	3,271.92	-309.04	381,141.52	729,427.46	32.046°N	103.593°W
15,798.00	92.24	359.64	12,404.12	3,365.77	-308.84	381,235.37	729,427.65	32.046°N	103.593°W
15,893.00	90.92	0.52	12,401.50	3,460.74	-308.71	381,330.33	729,427.79	32.046°N	103.593°W
15,987.00	90.04	359.64	12,400.71	3,554.73	-308.58	381,424.32	729,427.92	32.046°N	103.593°W
16,081.00	92.87	0.60	12,398.32	3,648.69	-308.38	381,518.28	729,428.11	32.047°N	103.593°W
16,176.00	90.66	359.81	12,395.40	3,743.64	-308.04	381,613.23	729,428.45	32.047°N	103.593°W
16,270.00	94.09	1.92	12,391.50	3,837.53	-306.63	381,707.12	729,429.87	32.047°N	103.593°W
16,364.00	96.64	2.98	12,382.71	3,931.02	-302.63	381,800.61	729,433.87	32.048°N	103.593°W
16,459.00	96.29	0.78	12,372.02	4,025.36	-299.53	381,894.95	729,436.96	32.048°N	103.593°W
16,553.00	98.66	1.57	12,359.79	4,118.53	-297.62	381,988.12	729,438.87	32.048°N	103.593°W
16,648.00	99.01	0.95	12,345.20	4,212.38	-295.56	382,081.97	729,440.94	32.048°N	103.593°W
16,742.00	95.67	359.20	12,333.19	4,305.60	-295.44	382,175.19	729,441.05	32.049°N	103.593°W
16,836.00	93.39	357.88	12,325.76	4,399.26	-297.83	382,268.85	729,438.66	32.049°N	103.593°W
16,930.00	90.31	356.82	12,322.73	4,493.10	-302.18	382,362.69	729,434.32	32.049°N	103.593°W
17,023.00	92.59	359.46	12,320.38	4,586.01	-305.19	382,455.60	729,431.30	32.049°N	103.593°W
17,116.00	91.71	357.97	12,316.89	4,678.92	-307.28	382,548.50	729,429.22	32.050°N	103.593°W
17,211.00	93.39	358.32	12,312.66	4,773.77	-310.35	382,643.36	729,426.15	32.050°N	103.593°W
17,255.00	93.30	357.53	12,310.09	4,817.66	-311.94	382,687.25	729,424.56	32.050°N	103.593°W
17255'MD: Final MWD Survey									
17,307.00	93.30	357.53	12,307.10	4,869.53	-314.18	382,739.12	729,422.32	32.050°N	103.593°W
17307'MD: Projection to Total Depth									

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
11,604.00	11,594.22	-164.00	-225.67	11604' Tie into Gyro Survey
11,781.00	11,770.95	-166.70	-235.09	11781'MD: Begin DriTech MWD Survey
17,255.00	12,310.09	4,817.66	-311.94	17255'MD: Final MWD Survey
17,307.00	12,307.10	4,869.53	-314.18	17307'MD: Projection to Total Depth

Checked By: _____ Approved By: _____ Date: _____