



30-025-4370

Endeavor Energy Resource

Lea County, NM

Sec 35-2, T26S, R33E

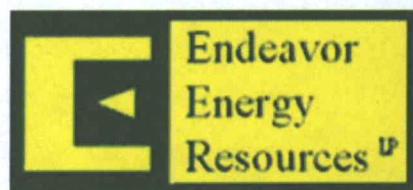
Battle Axe Fed #2H

Original Wellbore

Design: Original Wellbore

Survey Report - Geographic

30 August, 2014



Company:	Endeavor Energy Resource	Local Co-ordinate Reference:	Site Sec 35-2, T26S, R33E
Project:	Lea County, NM	TVD Reference:	WELL @ 3348.0usft (Original Well Elev)
Site:	Sec 35-2, T26S, R33E	MD Reference:	WELL @ 3348.0usft (Original Well Elev)
Well:	Battle Axe Fed #2H	North Reference:	Grid
Wellbore:	Original Wellbore	Survey Calculation Method:	Minimum Curvature
Design:	Original Wellbore	Database:	EDM 5000.1 Single User Db

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

Site	Sec 35-2, T26S, R33E		
Site Position:		Northing:	391,367.40 usft
From:	Map	Easting:	783,838.60 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 4' 21.616 N
		Longitude:	103° 25' 1.211 W
		Grid Convergence:	0.49 °

Well	Battle Axe Fed #2H		
Well Position	+N/-S	0.0 usft	Northing: 391,367.40 usft
	+E/-W	0.0 usft	Easting: 783,838.60 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	3,348.0 usft
		Latitude:	32° 4' 21.616 N
		Longitude:	103° 25' 1.211 W
		Ground Level:	3,322.0 usft

Wellbore	Original Wellbore		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2010	8/14/2014	7.11
			Dip Angle (°)
			59.99
			Field Strength (nT)
			48,226

Design	Original Wellbore		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.0	0.0	0.0
			Direction (°)
			0.01

Survey Program	Date	8/30/2014		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	8,500.0	BigDog Gyro Data (Original Wellbore)	NS-GYRO-MS	North sensing gyrocompassing m/s
8,603.0	16,233.0	MWD Survey (Original Wellbore)	MWD	MWD - Standard

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.0	0.00	0.00	0.0	0.0	0.0	391,367.40	783,838.60	32° 4' 21.616 N	103° 25' 1.211 W
100.0	0.37	358.65	100.0	0.3	0.0	391,367.72	783,838.59	32° 4' 21.620 N	103° 25' 1.211 W
First Gyro Survey									
200.0	0.38	5.07	200.0	1.0	0.0	391,368.37	783,838.61	32° 4' 21.626 N	103° 25' 1.210 W
300.0	0.38	25.54	300.0	1.6	0.2	391,369.00	783,838.78	32° 4' 21.632 N	103° 25' 1.208 W
400.0	0.35	29.05	400.0	2.2	0.5	391,369.57	783,839.08	32° 4' 21.638 N	103° 25' 1.205 W
500.0	0.17	74.92	500.0	2.5	0.8	391,369.88	783,839.37	32° 4' 21.641 N	103° 25' 1.201 W
600.0	0.17	79.64	600.0	2.5	1.1	391,369.94	783,839.66	32° 4' 21.641 N	103° 25' 1.198 W
700.0	0.16	80.47	700.0	2.6	1.3	391,369.99	783,839.94	32° 4' 21.642 N	103° 25' 1.195 W
800.0	0.37	83.61	800.0	2.7	1.8	391,370.05	783,840.40	32° 4' 21.642 N	103° 25' 1.189 W
900.0	0.38	86.29	900.0	2.7	2.5	391,370.11	783,841.05	32° 4' 21.643 N	103° 25' 1.182 W

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Site:	Sec 35-2, T26S, R33E	MD Reference:	WELL @ 3348.0usft (Original Well Elev)
Well:	Battle Axe Fed #2H	North Reference:	Grid
Wellbore:	Original Wellbore	Survey Calculation Method:	Minimum Curvature
Design:	Original Wellbore	Database:	EDM 5000.1 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
1,000.0	0.43	88.44	1,000.0	2.7	3.2	391,370.14	783,841.76	32° 4' 21.643 N	103° 25' 1.174 W
1,100.0	0.42	90.27	1,100.0	2.7	3.9	391,370.15	783,842.50	32° 4' 21.643 N	103° 25' 1.165 W
1,200.0	0.43	97.79	1,200.0	2.7	4.6	391,370.10	783,843.24	32° 4' 21.643 N	103° 25' 1.156 W
1,300.0	0.35	106.27	1,300.0	2.6	5.3	391,369.96	783,843.90	32° 4' 21.641 N	103° 25' 1.149 W
1,400.0	0.17	81.59	1,400.0	2.5	5.7	391,369.89	783,844.34	32° 4' 21.641 N	103° 25' 1.144 W
1,500.0	0.10	27.06	1,500.0	2.6	5.9	391,369.99	783,844.53	32° 4' 21.642 N	103° 25' 1.141 W
1,600.0	0.10	339.81	1,600.0	2.8	5.9	391,370.15	783,844.54	32° 4' 21.643 N	103° 25' 1.141 W
1,700.0	0.12	300.06	1,700.0	2.9	5.8	391,370.29	783,844.42	32° 4' 21.644 N	103° 25' 1.143 W
1,800.0	0.14	282.64	1,800.0	3.0	5.6	391,370.37	783,844.21	32° 4' 21.645 N	103° 25' 1.145 W
1,900.0	0.10	299.05	1,900.0	3.0	5.4	391,370.44	783,844.01	32° 4' 21.646 N	103° 25' 1.147 W
2,000.0	0.05	348.42	2,000.0	3.1	5.3	391,370.52	783,843.93	32° 4' 21.647 N	103° 25' 1.148 W
2,100.0	0.08	63.05	2,100.0	3.2	5.4	391,370.60	783,843.98	32° 4' 21.648 N	103° 25' 1.148 W
2,200.0	0.13	75.58	2,200.0	3.3	5.6	391,370.66	783,844.15	32° 4' 21.648 N	103° 25' 1.146 W
2,300.0	0.15	255.68	2,300.0	3.3	5.5	391,370.65	783,844.13	32° 4' 21.648 N	103° 25' 1.146 W
2,400.0	0.31	269.31	2,400.0	3.2	5.1	391,370.62	783,843.74	32° 4' 21.648 N	103° 25' 1.151 W
2,500.0	0.32	261.15	2,500.0	3.2	4.6	391,370.57	783,843.19	32° 4' 21.647 N	103° 25' 1.157 W
2,600.0	0.17	248.63	2,600.0	3.1	4.2	391,370.47	783,842.78	32° 4' 21.646 N	103° 25' 1.162 W
2,700.0	0.08	248.11	2,700.0	3.0	4.0	391,370.39	783,842.57	32° 4' 21.646 N	103° 25' 1.164 W
2,800.0	0.09	17.95	2,800.0	3.0	3.9	391,370.44	783,842.53	32° 4' 21.646 N	103° 25' 1.165 W
2,900.0	0.12	20.74	2,900.0	3.2	4.0	391,370.61	783,842.59	32° 4' 21.648 N	103° 25' 1.164 W
3,000.0	0.20	39.98	3,000.0	3.4	4.1	391,370.85	783,842.74	32° 4' 21.650 N	103° 25' 1.162 W
3,100.0	0.48	65.46	3,100.0	3.8	4.6	391,371.15	783,843.24	32° 4' 21.653 N	103° 25' 1.156 W
3,200.0	0.91	79.66	3,200.0	4.1	5.8	391,371.47	783,844.40	32° 4' 21.656 N	103° 25' 1.143 W
3,300.0	1.34	91.48	3,299.9	4.2	7.8	391,371.58	783,846.35	32° 4' 21.657 N	103° 25' 1.120 W
3,400.0	1.53	96.56	3,399.9	4.0	10.2	391,371.40	783,848.84	32° 4' 21.655 N	103° 25' 1.091 W
3,500.0	1.56	96.48	3,499.9	3.7	12.9	391,371.09	783,851.52	32° 4' 21.652 N	103° 25' 1.060 W
3,600.0	1.54	95.94	3,599.8	3.4	15.6	391,370.80	783,854.21	32° 4' 21.649 N	103° 25' 1.029 W
3,700.0	1.53	83.99	3,699.8	3.4	18.3	391,370.80	783,856.88	32° 4' 21.648 N	103° 25' 0.998 W
3,800.0	1.49	75.36	3,799.8	3.9	20.9	391,371.27	783,859.46	32° 4' 21.653 N	103° 25' 0.968 W
3,900.0	1.32	84.52	3,899.7	4.3	23.3	391,371.71	783,861.87	32° 4' 21.657 N	103° 25' 0.940 W
4,000.0	1.21	82.62	3,999.7	4.6	25.5	391,371.95	783,864.06	32° 4' 21.659 N	103° 25' 0.914 W
4,100.0	1.14	93.31	4,099.7	4.6	27.5	391,372.03	783,866.10	32° 4' 21.660 N	103° 25' 0.891 W
4,200.0	0.67	122.38	4,199.7	4.3	29.0	391,371.66	783,867.59	32° 4' 21.656 N	103° 25' 0.873 W
4,300.0	0.55	117.56	4,299.7	3.7	29.9	391,371.13	783,868.51	32° 4' 21.651 N	103° 25' 0.863 W
4,400.0	0.86	94.96	4,399.7	3.4	31.1	391,370.84	783,869.68	32° 4' 21.648 N	103° 25' 0.849 W
4,500.0	1.26	98.07	4,499.6	3.2	32.9	391,370.62	783,871.52	32° 4' 21.645 N	103° 25' 0.828 W
4,600.0	1.51	108.86	4,599.6	2.6	35.3	391,370.04	783,873.85	32° 4' 21.640 N	103° 25' 0.801 W
4,700.0	2.17	115.55	4,699.6	1.4	38.2	391,368.80	783,876.81	32° 4' 21.627 N	103° 25' 0.766 W
4,800.0	2.83	118.04	4,799.5	-0.6	42.1	391,366.82	783,880.69	32° 4' 21.607 N	103° 25' 0.721 W
4,900.0	2.82	117.66	4,899.4	-2.9	46.5	391,364.52	783,885.05	32° 4' 21.584 N	103° 25' 0.671 W
5,000.0	1.82	103.47	4,999.3	-4.4	50.2	391,363.01	783,888.77	32° 4' 21.569 N	103° 25' 0.628 W
5,100.0	0.48	35.46	5,099.2	-4.4	52.0	391,362.98	783,890.56	32° 4' 21.568 N	103° 25' 0.607 W
5,200.0	0.17	348.95	5,199.2	-3.9	52.2	391,363.46	783,890.78	32° 4' 21.573 N	103° 25' 0.605 W
5,300.0	0.06	56.71	5,299.2	-3.8	52.2	391,363.64	783,890.79	32° 4' 21.575 N	103° 25' 0.604 W
5,400.0	0.06	58.96	5,399.2	-3.7	52.3	391,363.69	783,890.88	32° 4' 21.575 N	103° 25' 0.603 W
5,500.0	0.04	76.26	5,499.2	-3.7	52.4	391,363.73	783,890.96	32° 4' 21.576 N	103° 25' 0.603 W
5,600.0	0.04	31.47	5,599.2	-3.6	52.4	391,363.77	783,891.01	32° 4' 21.576 N	103° 25' 0.602 W
5,700.0	0.04	284.55	5,699.2	-3.6	52.4	391,363.81	783,891.00	32° 4' 21.576 N	103° 25' 0.602 W
5,800.0	0.04	267.51	5,799.2	-3.6	52.3	391,363.81	783,890.93	32° 4' 21.576 N	103° 25' 0.603 W
5,900.0	0.06	318.44	5,899.2	-3.5	52.3	391,363.85	783,890.86	32° 4' 21.577 N	103° 25' 0.604 W
6,000.0	0.02	149.70	5,999.2	-3.5	52.2	391,363.88	783,890.83	32° 4' 21.577 N	103° 25' 0.604 W
6,100.0	0.03	185.87	6,099.2	-3.6	52.2	391,363.83	783,890.84	32° 4' 21.577 N	103° 25' 0.604 W
6,200.0	0.03	96.59	6,199.2	-3.6	52.3	391,363.81	783,890.86	32° 4' 21.576 N	103° 25' 0.604 W
6,300.0	0.07	212.63	6,299.2	-3.6	52.3	391,363.75	783,890.85	32° 4' 21.576 N	103° 25' 0.604 W
6,400.0	0.04	199.03	6,399.2	-3.7	52.2	391,363.67	783,890.81	32° 4' 21.575 N	103° 25' 0.604 W

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Project:	Lea County, NM	TVD Reference:	WELL @ 3348.0usft (Original Well Elev)
Site:	Sec 35-2, T26S, R33E	MD Reference:	WELL @ 3348.0usft (Original Well Elev)
Well:	Battle Axe Fed #2H	North Reference:	Grid
Wellbore:	Original Wellbore	Survey Calculation Method:	Minimum Curvature
Design:	Original Wellbore	Database:	EDM 5000.1 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
6,500.0	0.04	233.30	6,499.2	-3.8	52.2	391,363.61	783,890.77	32° 4' 21.575 N	103° 25' 0.605 W
6,600.0	0.03	99.77	6,599.2	-3.8	52.2	391,363.59	783,890.77	32° 4' 21.574 N	103° 25' 0.605 W
6,700.0	0.03	95.13	6,699.2	-3.8	52.2	391,363.58	783,890.82	32° 4' 21.574 N	103° 25' 0.604 W
6,800.0	0.05	170.74	6,799.2	-3.9	52.3	391,363.54	783,890.85	32° 4' 21.574 N	103° 25' 0.604 W
6,900.0	0.11	121.79	6,899.2	-4.0	52.3	391,363.44	783,890.94	32° 4' 21.573 N	103° 25' 0.603 W
7,000.0	0.21	32.81	6,999.2	-3.9	52.5	391,363.55	783,891.12	32° 4' 21.574 N	103° 25' 0.601 W
7,100.0	0.11	272.87	7,099.2	-3.7	52.5	391,363.70	783,891.13	32° 4' 21.575 N	103° 25' 0.601 W
7,200.0	0.05	208.68	7,199.2	-3.7	52.4	391,363.67	783,891.01	32° 4' 21.575 N	103° 25' 0.602 W
7,300.0	0.03	114.71	7,299.2	-3.8	52.4	391,363.62	783,891.01	32° 4' 21.575 N	103° 25' 0.602 W
7,400.0	0.04	207.11	7,399.2	-3.8	52.4	391,363.58	783,891.02	32° 4' 21.574 N	103° 25' 0.602 W
7,500.0	0.04	134.51	7,499.2	-3.9	52.4	391,363.52	783,891.03	32° 4' 21.574 N	103° 25' 0.602 W
7,600.0	0.04	145.18	7,599.2	-3.9	52.5	391,363.47	783,891.07	32° 4' 21.573 N	103° 25' 0.601 W
7,700.0	0.07	167.97	7,699.2	-4.0	52.5	391,363.38	783,891.11	32° 4' 21.572 N	103° 25' 0.601 W
7,800.0	0.07	243.08	7,799.2	-4.1	52.5	391,363.29	783,891.06	32° 4' 21.571 N	103° 25' 0.601 W
7,900.0	0.12	247.82	7,899.2	-4.2	52.3	391,363.23	783,890.91	32° 4' 21.571 N	103° 25' 0.603 W
8,000.0	0.07	14.45	7,999.2	-4.2	52.2	391,363.25	783,890.83	32° 4' 21.571 N	103° 25' 0.604 W
8,100.0	0.21	48.70	8,099.2	-4.0	52.4	391,363.43	783,890.98	32° 4' 21.573 N	103° 25' 0.602 W
8,200.0	0.25	99.29	8,199.2	-3.9	52.7	391,363.51	783,891.34	32° 4' 21.573 N	103° 25' 0.598 W
8,300.0	0.43	146.78	8,299.2	-4.2	53.2	391,363.16	783,891.76	32° 4' 21.570 N	103° 25' 0.593 W
8,400.0	0.62	158.28	8,399.2	-5.1	53.6	391,362.35	783,892.16	32° 4' 21.562 N	103° 25' 0.589 W
8,500.0	0.62	168.42	8,499.2	-6.1	53.9	391,361.31	783,892.47	32° 4' 21.552 N	103° 25' 0.585 W
8,555.0	2.54	356.19	8,554.2	-5.2	53.9	391,362.24	783,892.45	32° 4' 21.561 N	103° 25' 0.585 W
First MWD Survey									
8,603.0	5.30	355.40	8,602.1	-1.9	53.6	391,365.51	783,892.20	32° 4' 21.593 N	103° 25' 0.588 W
8,635.0	6.40	352.60	8,633.9	1.4	53.3	391,368.76	783,891.85	32° 4' 21.625 N	103° 25' 0.592 W
8,666.0	8.80	348.80	8,664.7	5.4	52.6	391,372.80	783,891.17	32° 4' 21.665 N	103° 25' 0.599 W
8,698.0	11.60	346.20	8,696.2	10.9	51.3	391,378.32	783,889.93	32° 4' 21.720 N	103° 25' 0.613 W
8,730.0	15.10	343.80	8,727.3	18.1	49.4	391,385.45	783,888.00	32° 4' 21.791 N	103° 25' 0.635 W
8,762.0	18.20	341.70	8,757.9	26.8	46.7	391,394.20	783,885.26	32° 4' 21.878 N	103° 25' 0.666 W
8,793.0	21.20	344.20	8,787.1	36.8	43.6	391,404.19	783,882.22	32° 4' 21.977 N	103° 25' 0.700 W
8,825.0	24.10	348.40	8,816.7	48.8	40.7	391,416.16	783,879.33	32° 4' 22.095 N	103° 25' 0.732 W
8,857.0	24.50	351.70	8,845.8	61.7	38.5	391,429.13	783,877.06	32° 4' 22.224 N	103° 25' 0.758 W
8,889.0	24.00	352.70	8,875.0	74.8	36.7	391,442.15	783,875.27	32° 4' 22.353 N	103° 25' 0.777 W
8,921.0	23.50	351.90	8,904.3	87.5	34.9	391,454.92	783,873.55	32° 4' 22.479 N	103° 25' 0.796 W
8,952.0	24.20	352.80	8,932.6	99.9	33.3	391,467.35	783,871.88	32° 4' 22.603 N	103° 25' 0.814 W
8,984.0	26.40	356.00	8,961.6	113.6	32.0	391,480.95	783,870.56	32° 4' 22.737 N	103° 25' 0.828 W
9,015.0	28.40	358.40	8,989.1	127.8	31.3	391,495.20	783,869.87	32° 4' 22.878 N	103° 25' 0.835 W
9,047.0	30.20	357.80	9,017.0	143.4	30.8	391,510.85	783,869.35	32° 4' 23.033 N	103° 25' 0.839 W
9,078.0	31.50	357.00	9,043.6	159.3	30.0	391,526.73	783,868.63	32° 4' 23.190 N	103° 25' 0.846 W
9,110.0	33.90	357.60	9,070.5	176.6	29.2	391,544.00	783,867.82	32° 4' 23.361 N	103° 25' 0.854 W
9,142.0	36.80	356.30	9,096.6	195.1	28.2	391,562.48	783,866.82	32° 4' 23.544 N	103° 25' 0.863 W
9,174.0	39.60	354.40	9,121.8	214.8	26.6	391,582.20	783,865.21	32° 4' 23.740 N	103° 25' 0.880 W
9,206.0	42.90	353.30	9,145.8	235.8	24.3	391,603.17	783,862.94	32° 4' 23.947 N	103° 25' 0.904 W
9,237.0	45.40	352.00	9,168.1	257.2	21.6	391,624.58	783,860.18	32° 4' 24.159 N	103° 25' 0.934 W
9,269.0	47.30	352.00	9,190.2	280.1	18.4	391,647.51	783,856.95	32° 4' 24.387 N	103° 25' 0.970 W
9,301.0	48.70	352.30	9,211.6	303.7	15.1	391,671.07	783,853.71	32° 4' 24.620 N	103° 25' 1.005 W
9,332.0	50.70	352.80	9,231.6	327.1	12.0	391,694.51	783,850.64	32° 4' 24.852 N	103° 25' 1.038 W
9,364.0	53.10	353.80	9,251.4	352.1	9.1	391,719.52	783,847.71	32° 4' 25.100 N	103° 25' 1.070 W
9,395.0	55.60	353.50	9,269.4	377.2	6.3	391,744.55	783,844.92	32° 4' 25.348 N	103° 25' 1.100 W
9,427.0	58.40	353.50	9,286.9	403.8	3.3	391,771.22	783,841.88	32° 4' 25.612 N	103° 25' 1.133 W
9,459.0	61.00	352.60	9,303.0	431.2	-0.1	391,798.64	783,838.54	32° 4' 25.884 N	103° 25' 1.169 W
9,490.0	64.00	352.50	9,317.3	458.5	-3.6	391,825.90	783,834.97	32° 4' 26.154 N	103° 25' 1.207 W
9,522.0	67.10	353.20	9,330.6	487.4	-7.2	391,854.80	783,831.35	32° 4' 26.440 N	103° 25' 1.247 W
9,554.0	70.20	354.70	9,342.2	517.0	-10.4	391,884.43	783,828.21	32° 4' 26.733 N	103° 25' 1.280 W
9,585.0	72.90	356.20	9,352.0	546.3	-12.7	391,913.74	783,825.88	32° 4' 27.024 N	103° 25' 1.304 W

Company:	Endeavor Energy Resource	Local Co-ordinate Reference:	Site Sec 35-2, T26S, R33E
Project:	Lea County, NM	TVD Reference:	WELL @ 3348.0usft (Original Well Elev)
Site:	Sec 35-2, T26S, R33E	MD Reference:	WELL @ 3348.0usft (Original Well Elev)
Well:	Battle Axe Fed #2H	North Reference:	Grid
Wellbore:	Original Wellbore	Survey Calculation Method:	Minimum Curvature
Design:	Original Wellbore	Database:	EDM 5000.1 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
9,617.0	76.80	356.30	9,360.4	577.2	-14.7	391,944.56	783,823.86	32° 4' 27.329 N	103° 25' 1.325 W
9,649.0	81.10	356.60	9,366.5	608.5	-16.7	391,975.90	783,821.92	32° 4' 27.639 N	103° 25' 1.344 W
9,680.0	85.10	358.10	9,370.2	639.2	-18.1	392,006.63	783,820.50	32° 4' 27.943 N	103° 25' 1.358 W
9,711.0	88.10	359.20	9,372.1	670.2	-18.8	392,037.57	783,819.77	32° 4' 28.249 N	103° 25' 1.363 W
9,743.0	88.70	0.00	9,373.0	702.2	-19.0	392,069.55	783,819.55	32° 4' 28.566 N	103° 25' 1.363 W
9,838.0	89.60	0.70	9,374.4	797.1	-18.5	392,164.54	783,820.13	32° 4' 29.506 N	103° 25' 1.347 W
9,933.0	88.80	0.80	9,375.7	892.1	-17.2	392,259.52	783,821.37	32° 4' 30.446 N	103° 25' 1.323 W
10,028.0	89.80	1.40	9,376.9	987.1	-15.4	392,354.50	783,823.20	32° 4' 31.385 N	103° 25' 1.292 W
10,122.0	92.00	2.00	9,375.4	1,081.0	-12.6	392,448.44	783,825.98	32° 4' 32.315 N	103° 25' 1.251 W
10,218.0	91.50	2.80	9,372.5	1,176.9	-8.6	392,544.31	783,830.00	32° 4' 33.263 N	103° 25' 1.194 W
10,312.0	91.10	3.30	9,370.3	1,270.8	-3.6	392,638.15	783,835.00	32° 4' 34.191 N	103° 25' 1.127 W
10,407.0	90.90	0.90	9,368.7	1,365.7	-0.1	392,733.06	783,838.48	32° 4' 35.130 N	103° 25' 1.077 W
10,502.0	91.30	1.40	9,366.8	1,460.6	1.8	392,828.03	783,840.39	32° 4' 36.070 N	103° 25' 1.046 W
10,597.0	89.70	0.40	9,366.0	1,555.6	3.3	392,923.01	783,841.88	32° 4' 37.009 N	103° 25' 1.019 W
10,693.0	89.50	0.20	9,366.7	1,651.6	3.8	393,019.00	783,842.38	32° 4' 37.959 N	103° 25' 1.004 W
10,788.0	90.10	0.00	9,367.0	1,746.6	4.0	393,114.00	783,842.55	32° 4' 38.899 N	103° 25' 0.992 W
10,884.0	88.70	359.80	9,368.0	1,842.6	3.8	393,209.99	783,842.38	32° 4' 39.849 N	103° 25' 0.985 W
10,979.0	90.20	0.40	9,368.9	1,937.6	3.9	393,304.99	783,842.55	32° 4' 40.789 N	103° 25' 0.973 W
11,074.0	92.60	2.00	9,366.6	2,032.5	5.9	393,399.93	783,844.54	32° 4' 41.728 N	103° 25' 0.941 W
11,169.0	92.70	2.40	9,362.2	2,127.4	9.6	393,494.76	783,848.18	32° 4' 42.666 N	103° 25' 0.889 W
11,264.0	92.70	3.50	9,357.7	2,222.1	14.5	393,589.52	783,853.06	32° 4' 43.604 N	103° 25' 0.823 W
11,359.0	92.10	1.70	9,353.8	2,316.9	18.8	393,684.34	783,857.37	32° 4' 44.542 N	103° 25' 0.764 W
11,453.0	91.50	0.10	9,350.8	2,410.9	20.2	393,778.28	783,858.84	32° 4' 45.471 N	103° 25' 0.737 W
11,549.0	89.80	357.50	9,349.7	2,506.8	18.2	393,874.24	783,856.83	32° 4' 46.421 N	103° 25' 0.751 W
11,644.0	89.00	0.10	9,350.7	2,601.8	16.2	393,969.20	783,854.84	32° 4' 47.361 N	103° 25' 0.765 W
11,739.0	88.90	0.40	9,352.5	2,696.8	16.7	394,064.19	783,855.26	32° 4' 48.301 N	103° 25' 0.751 W
11,835.0	87.80	359.20	9,355.2	2,792.7	16.3	394,160.14	783,854.92	32° 4' 49.250 N	103° 25' 0.745 W
11,929.0	88.80	359.60	9,358.0	2,886.7	15.3	394,254.09	783,853.94	32° 4' 50.180 N	103° 25' 0.747 W
12,025.0	90.00	359.20	9,359.0	2,982.7	14.3	394,350.08	783,852.93	32° 4' 51.130 N	103° 25' 0.750 W
12,120.0	92.20	359.00	9,357.2	3,077.6	12.8	394,445.05	783,851.44	32° 4' 52.070 N	103° 25' 0.758 W
12,216.0	91.40	358.30	9,354.2	3,173.6	10.6	394,540.97	783,849.18	32° 4' 53.019 N	103° 25' 0.774 W
12,311.0	92.10	359.10	9,351.3	3,268.5	8.4	394,635.90	783,847.03	32° 4' 53.959 N	103° 25' 0.790 W
12,407.0	90.40	358.80	9,349.2	3,364.5	6.7	394,731.86	783,845.27	32° 4' 54.908 N	103° 25' 0.801 W
12,502.0	90.60	357.30	9,348.4	3,459.4	3.4	394,826.80	783,842.04	32° 4' 55.848 N	103° 25' 0.829 W
12,598.0	92.10	358.10	9,346.1	3,555.3	-0.4	394,922.69	783,838.18	32° 4' 56.797 N	103° 25' 0.864 W
12,693.0	91.60	358.90	9,343.0	3,650.2	-2.9	395,017.61	783,835.70	32° 4' 57.737 N	103° 25' 0.884 W
12,789.0	91.60	359.40	9,340.3	3,746.2	-4.3	395,113.56	783,834.27	32° 4' 58.686 N	103° 25' 0.891 W
12,884.0	91.10	0.00	9,338.1	3,841.1	-4.8	395,208.53	783,833.78	32° 4' 59.626 N	103° 25' 0.887 W
12,979.0	89.50	0.70	9,337.6	3,936.1	-4.2	395,303.52	783,834.36	32° 5' 0.566 N	103° 25' 0.871 W
13,074.0	90.50	0.70	9,337.6	4,031.1	-3.1	395,398.51	783,835.52	32° 5' 1.506 N	103° 25' 0.848 W
13,169.0	90.70	1.40	9,336.6	4,126.1	-1.3	395,493.49	783,837.26	32° 5' 2.446 N	103° 25' 0.819 W
13,263.0	88.20	0.50	9,337.5	4,220.1	0.2	395,587.47	783,838.82	32° 5' 3.375 N	103° 25' 0.791 W
13,358.0	90.50	0.70	9,338.6	4,315.1	1.2	395,682.45	783,839.81	32° 5' 4.315 N	103° 25' 0.771 W
13,453.0	90.00	0.70	9,338.2	4,410.0	2.4	395,777.44	783,840.97	32° 5' 5.255 N	103° 25' 0.748 W
13,548.0	88.40	0.10	9,339.5	4,505.0	3.0	395,872.43	783,841.64	32° 5' 6.195 N	103° 25' 0.731 W
13,644.0	91.40	0.20	9,339.7	4,601.0	3.3	395,968.41	783,841.89	32° 5' 7.145 N	103° 25' 0.718 W
13,739.0	91.60	359.80	9,337.2	4,696.0	3.3	396,063.38	783,841.89	32° 5' 8.084 N	103° 25' 0.709 W
13,834.0	93.50	0.00	9,333.0	4,790.9	3.1	396,158.28	783,841.72	32° 5' 9.024 N	103° 25' 0.701 W
13,929.0	93.10	1.40	9,327.5	4,885.7	4.3	396,253.12	783,842.88	32° 5' 9.962 N	103° 25' 0.678 W
14,024.0	91.50	0.70	9,323.7	4,980.6	6.0	396,348.02	783,844.62	32° 5' 10.901 N	103° 25' 0.649 W
14,120.0	89.50	0.70	9,322.8	5,076.6	7.2	396,444.00	783,845.79	32° 5' 11.850 N	103° 25' 0.626 W
14,214.0	90.40	1.00	9,322.9	5,170.6	8.6	396,537.99	783,847.19	32° 5' 12.780 N	103° 25' 0.600 W
14,309.0	89.80	1.00	9,322.8	5,265.6	10.2	396,632.98	783,848.84	32° 5' 13.720 N	103° 25' 0.572 W
14,405.0	91.10	1.40	9,322.0	5,361.6	12.3	396,728.95	783,850.85	32° 5' 14.670 N	103° 25' 0.539 W
14,500.0	90.30	0.30	9,320.8	5,456.5	13.7	396,823.93	783,852.26	32° 5' 15.609 N	103° 25' 0.513 W

Company:	Endeavor Energy Resource	Local Co-ordinate Reference:	Site Sec 35-2, T26S, R33E
Project:	Lea County, NM	TVD Reference:	WELL @ 3348.0usft (Original Well Elev)
Site:	Sec 35-2, T26S, R33E	MD Reference:	WELL @ 3348.0usft (Original Well Elev)
Well:	Battle Axe Fed #2H	North Reference:	Grid
Wellbore:	Original Wellbore	Survey Calculation Method:	Minimum Curvature
Design:	Original Wellbore	Database:	EDM 5000.1 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
14,596.0	88.70	0.40	9,321.7	5,552.5	14.3	396,919.92	783,852.85	32° 5' 16.559 N	103° 25' 0.497 W
14,690.0	89.10	0.20	9,323.5	5,646.5	14.7	397,013.90	783,853.34	32° 5' 17.489 N	103° 25' 0.482 W
14,785.0	90.30	0.10	9,324.0	5,741.5	15.0	397,108.90	783,853.59	32° 5' 18.429 N	103° 25' 0.469 W
14,879.0	91.90	0.40	9,322.2	5,835.5	15.4	397,202.88	783,854.00	32° 5' 19.359 N	103° 25' 0.455 W
14,975.0	89.60	0.30	9,320.9	5,931.5	16.0	397,298.86	783,854.59	32° 5' 20.309 N	103° 25' 0.439 W
15,070.0	90.50	0.10	9,320.8	6,026.5	16.3	397,393.86	783,854.92	32° 5' 21.249 N	103° 25' 0.426 W
15,166.0	88.10	359.30	9,322.0	6,122.4	15.8	397,489.84	783,854.42	32° 5' 22.199 N	103° 25' 0.422 W
15,260.0	87.90	358.60	9,325.3	6,216.4	14.1	397,583.77	783,852.70	32° 5' 23.128 N	103° 25' 0.433 W
15,355.0	87.70	358.20	9,328.9	6,311.3	11.4	397,678.66	783,850.04	32° 5' 24.067 N	103° 25' 0.454 W
15,451.0	88.00	358.40	9,332.5	6,407.2	8.6	397,774.55	783,847.20	32° 5' 25.017 N	103° 25' 0.478 W
15,546.0	88.40	358.60	9,335.5	6,502.1	6.1	397,869.47	783,844.71	32° 5' 25.956 N	103° 25' 0.498 W
15,642.0	89.80	359.20	9,337.0	6,598.0	4.3	397,965.44	783,842.87	32° 5' 26.906 N	103° 25' 0.509 W
15,737.0	89.90	358.80	9,337.3	6,693.0	2.6	398,060.43	783,841.21	32° 5' 27.846 N	103° 25' 0.519 W
15,832.0	90.30	359.20	9,337.1	6,788.0	1.0	398,155.41	783,839.55	32° 5' 28.786 N	103° 25' 0.529 W
15,928.0	90.90	359.50	9,336.1	6,884.0	-0.1	398,251.40	783,838.47	32° 5' 29.736 N	103° 25' 0.532 W
16,023.0	91.50	359.20	9,334.1	6,979.0	-1.2	398,346.37	783,837.39	32° 5' 30.676 N	103° 25' 0.536 W
16,118.0	92.60	359.60	9,330.7	7,073.9	-2.2	398,441.30	783,836.39	32° 5' 31.615 N	103° 25' 0.538 W
16,177.0	93.10	359.80	9,327.8	7,132.8	-2.5	398,500.23	783,836.09	32° 5' 32.198 N	103° 25' 0.536 W
Last MWD Survey									
16,233.0	93.10	359.80	9,324.8	7,188.7	-2.7	398,556.15	783,835.89	32° 5' 32.752 N	103° 25' 0.532 W
PTB - TD									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
100.0	100.0	0.3	0.0	First Gyro Survey
8,555.0	8,554.2	-5.2	53.9	First MWD Survey
16,177.0	9,327.8	7,132.8	-2.5	Last MWD Survey
16,233.0	9,324.8	7,188.7	-2.7	PTB - TD

Checked By: _____ Approved By: _____ Date: _____