

Amtex Energy, Inc

Lea County, New Mexico

Sec 30, T21S, R33E

Dagger State Com #504H

Wellbore #1

Design: Wellbore #1

Survey Report - Geographic

29 March, 2017



Survey Report - Geographic



Company:	Amtex Energy, Inc	Local Co-ordinate Reference:	Well Dagger State Com #504H
Project:	Lea County, New Mexico	TVD Reference:	Well @ 3809.8usft (United #40)
Site:	Sec 30, T21S, R33E	MD Reference:	Well @ 3809.8usft (United #40)
Well:	Dagger State Com #504H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM5002

Project	Lea County, New Mexico		
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 30, T21S, R33E		
Site Position:		Northing:	528,781.77 usft
From:	Lat/Long	Easting:	722,057.48 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 27' 6.033 N
		Longitude:	103° 36' 48.469 W
		Grid Convergence:	0.39 °

Well	Dagger State Com #504H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft
		Latitude:	32° 26' 59.432 N
		Longitude:	103° 36' 16.046 W
		Ground Level:	3,783.8 usft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2015	5/2/2016	7.11
			Dip Angle (°)
			60.28
			Field Strength (nT)
			48,182

Design	Wellbore #1		
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 (°)
			359.53

Survey Program	Date 3/29/2017		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
100.0	2,202.0	Gyros (Wellbore #1)	GYRO-NS
2,278.0	10,500.0	MWD Surveys (Wellbore #1)	MWD default
10,527.0	18,458.0	MWD Surveys 2 (Wellbore #1)	MWD default
			Description
			OWSG Gyrocompass Gyro
			MWD - Standard
			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	528,133.50	724,840.22	32° 26' 59.432 N	103° 36' 16.046 W	
100.0	0.57	133.50	100.0	-0.3	0.4	528,133.16	724,840.58	32° 26' 59.428 N	103° 36' 16.042 W	
200.0	0.60	138.11	200.0	-1.1	1.1	528,132.43	724,841.29	32° 26' 59.421 N	103° 36' 16.034 W	
300.0	0.60	146.42	300.0	-1.9	1.7	528,131.60	724,841.93	32° 26' 59.413 N	103° 36' 16.027 W	
400.0	0.51	173.90	400.0	-2.8	2.0	528,130.72	724,842.26	32° 26' 59.404 N	103° 36' 16.023 W	
500.0	0.50	187.75	500.0	-3.7	2.0	528,129.85	724,842.25	32° 26' 59.395 N	103° 36' 16.023 W	
600.0	0.48	200.73	600.0	-4.5	1.8	528,129.02	724,842.04	32° 26' 59.387 N	103° 36' 16.025 W	
700.0	0.50	197.17	700.0	-5.3	1.6	528,128.21	724,841.77	32° 26' 59.379 N	103° 36' 16.029 W	
800.0	0.44	191.80	800.0	-6.1	1.3	528,127.42	724,841.56	32° 26' 59.371 N	103° 36' 16.031 W	
900.0	0.46	192.16	900.0	-6.8	1.2	528,126.65	724,841.40	32° 26' 59.364 N	103° 36' 16.033 W	

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Well:	Dagger State Com #504H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM5002

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	0.52	205.27	1,000.0	-7.7	0.9	528,125.85	724,841.12	32° 26' 59.356 N	103° 36' 16.037 W
1,100.0	0.61	221.46	1,100.0	-8.5	0.4	528,125.04	724,840.57	32° 26' 59.348 N	103° 36' 16.043 W
1,200.0	0.69	237.95	1,200.0	-9.2	-0.5	528,124.32	724,839.71	32° 26' 59.341 N	103° 36' 16.053 W
1,300.0	0.74	250.13	1,299.9	-9.7	-1.6	528,123.78	724,838.59	32° 26' 59.335 N	103° 36' 16.066 W
1,400.0	0.73	246.81	1,399.9	-10.2	-2.8	528,123.31	724,837.40	32° 26' 59.331 N	103° 36' 16.080 W
1,500.0	0.70	243.44	1,499.9	-10.7	-3.9	528,122.79	724,836.27	32° 26' 59.326 N	103° 36' 16.093 W
1,600.0	0.59	238.90	1,599.9	-11.3	-4.9	528,122.25	724,835.28	32° 26' 59.321 N	103° 36' 16.105 W
1,700.0	0.52	206.53	1,699.9	-11.9	-5.6	528,121.58	724,834.64	32° 26' 59.314 N	103° 36' 16.113 W
1,800.0	0.72	145.54	1,799.9	-12.8	-5.4	528,120.65	724,834.79	32° 26' 59.305 N	103° 36' 16.111 W
1,900.0	0.34	115.87	1,899.9	-13.5	-4.8	528,120.01	724,835.41	32° 26' 59.298 N	103° 36' 16.104 W
2,000.0	0.49	75.89	1,999.9	-13.5	-4.1	528,119.98	724,836.09	32° 26' 59.298 N	103° 36' 16.096 W
2,100.0	0.49	22.43	2,099.9	-13.0	-3.5	528,120.48	724,836.67	32° 26' 59.303 N	103° 36' 16.089 W
2,200.0	0.21	321.38	2,199.9	-12.5	-3.5	528,121.02	724,836.72	32° 26' 59.308 N	103° 36' 16.088 W
2,202.0	0.21	317.76	2,201.9	-12.5	-3.5	528,121.03	724,836.72	32° 26' 59.308 N	103° 36' 16.088 W
Tie into gyros @ 2202.0' MD/2201.9' TVD									
2,278.0	0.20	317.30	2,277.9	-12.3	-3.7	528,121.23	724,836.53	32° 26' 59.310 N	103° 36' 16.090 W
2,375.0	0.20	332.60	2,374.9	-12.0	-3.9	528,121.50	724,836.34	32° 26' 59.313 N	103° 36' 16.093 W
2,471.0	0.30	19.40	2,470.9	-11.6	-3.9	528,121.89	724,836.35	32° 26' 59.317 N	103° 36' 16.093 W
2,568.0	0.30	26.50	2,567.9	-11.1	-3.7	528,122.35	724,836.54	32° 26' 59.321 N	103° 36' 16.090 W
2,662.0	0.50	40.10	2,661.9	-10.6	-3.3	528,122.89	724,836.92	32° 26' 59.327 N	103° 36' 16.086 W
2,757.0	0.80	41.80	2,756.9	-9.8	-2.6	528,123.70	724,837.63	32° 26' 59.335 N	103° 36' 16.077 W
2,852.0	1.20	48.00	2,851.9	-8.6	-1.4	528,124.86	724,838.81	32° 26' 59.346 N	103° 36' 16.064 W
2,949.0	1.60	51.90	2,948.8	-7.1	0.4	528,126.37	724,840.63	32° 26' 59.361 N	103° 36' 16.042 W
3,044.0	0.80	70.70	3,043.8	-6.1	2.1	528,127.41	724,842.30	32° 26' 59.371 N	103° 36' 16.023 W
3,140.0	1.20	60.50	3,139.8	-5.4	3.6	528,128.13	724,843.81	32° 26' 59.378 N	103° 36' 16.005 W
3,234.0	0.80	54.50	3,233.8	-4.5	5.0	528,128.99	724,845.20	32° 26' 59.387 N	103° 36' 15.989 W
3,331.0	1.20	47.80	3,330.8	-3.4	6.3	528,130.07	724,846.50	32° 26' 59.397 N	103° 36' 15.973 W
3,426.0	1.60	46.40	3,425.8	-1.8	8.0	528,131.65	724,848.20	32° 26' 59.413 N	103° 36' 15.953 W
3,521.0	0.40	350.20	3,520.7	-0.6	8.9	528,132.89	724,849.10	32° 26' 59.425 N	103° 36' 15.943 W
3,617.0	0.40	357.40	3,616.7	0.1	8.8	528,133.56	724,849.03	32° 26' 59.432 N	103° 36' 15.944 W
3,714.0	0.40	358.10	3,713.7	0.7	8.8	528,134.24	724,849.00	32° 26' 59.438 N	103° 36' 15.944 W
3,810.0	0.40	4.90	3,809.7	1.4	8.8	528,134.90	724,849.02	32° 26' 59.445 N	103° 36' 15.944 W
3,906.0	0.50	355.60	3,905.7	2.2	8.8	528,135.66	724,849.02	32° 26' 59.452 N	103° 36' 15.944 W
4,002.0	0.70	0.70	4,001.7	3.2	8.8	528,136.66	724,848.99	32° 26' 59.462 N	103° 36' 15.944 W
4,098.0	0.50	355.60	4,097.7	4.2	8.7	528,137.66	724,848.96	32° 26' 59.472 N	103° 36' 15.944 W
4,195.0	0.40	359.70	4,194.7	4.9	8.7	528,138.42	724,848.93	32° 26' 59.480 N	103° 36' 15.944 W
4,291.0	0.40	2.30	4,290.7	5.6	8.7	528,139.09	724,848.94	32° 26' 59.486 N	103° 36' 15.944 W
4,387.0	0.30	24.10	4,386.7	6.2	8.8	528,139.66	724,849.06	32° 26' 59.492 N	103° 36' 15.943 W
4,483.0	0.20	19.70	4,482.7	6.5	9.0	528,140.05	724,849.22	32° 26' 59.496 N	103° 36' 15.941 W
4,578.0	0.30	343.10	4,577.7	6.9	9.0	528,140.44	724,849.20	32° 26' 59.500 N	103° 36' 15.941 W
4,675.0	0.30	341.90	4,674.7	7.4	8.8	528,140.92	724,849.05	32° 26' 59.504 N	103° 36' 15.943 W
4,772.0	0.30	340.30	4,771.7	7.9	8.7	528,141.40	724,848.88	32° 26' 59.509 N	103° 36' 15.945 W
4,868.0	0.20	15.50	4,867.7	8.3	8.6	528,141.80	724,848.84	32° 26' 59.513 N	103° 36' 15.945 W
4,964.0	0.20	20.80	4,963.7	8.6	8.7	528,142.12	724,848.95	32° 26' 59.516 N	103° 36' 15.944 W
5,060.0	0.20	38.30	5,059.7	8.9	8.9	528,142.41	724,849.11	32° 26' 59.519 N	103° 36' 15.942 W
5,157.0	0.20	53.30	5,156.7	9.1	9.1	528,142.64	724,849.35	32° 26' 59.521 N	103° 36' 15.939 W
5,253.0	0.30	57.00	5,252.7	9.4	9.5	528,142.88	724,849.70	32° 26' 59.524 N	103° 36' 15.935 W
5,349.0	0.30	11.60	5,348.7	9.8	9.7	528,143.26	724,849.96	32° 26' 59.527 N	103° 36' 15.932 W
5,446.0	0.40	8.10	5,445.7	10.3	9.8	528,143.85	724,850.06	32° 26' 59.533 N	103° 36' 15.931 W
5,542.0	0.50	357.40	5,541.7	11.1	9.9	528,144.60	724,850.08	32° 26' 59.541 N	103° 36' 15.930 W
5,639.0	0.50	348.10	5,638.7	11.9	9.8	528,145.43	724,849.98	32° 26' 59.549 N	103° 36' 15.932 W
5,735.0	0.40	4.60	5,734.7	12.7	9.7	528,146.18	724,849.92	32° 26' 59.556 N	103° 36' 15.932 W
5,832.0	0.30	31.30	5,831.7	13.2	9.9	528,146.73	724,850.08	32° 26' 59.562 N	103° 36' 15.930 W
5,928.0	0.30	34.50	5,927.7	13.7	10.1	528,147.15	724,850.35	32° 26' 59.566 N	103° 36' 15.927 W
6,025.0	0.30	22.90	6,024.7	14.1	10.4	528,147.60	724,850.59	32° 26' 59.570 N	103° 36' 15.924 W

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Site:	Sec 30, T21S, R33E	MD Reference:	Well @ 3809.8usft (United #40)
Well:	Dagger State Com #504H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM5002

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
6,121.0	0.40	29.40	6,120.7	14.6	10.6	528,148.12	724,850.86	32° 26' 59.575 N	103° 36' 15.921 W
6,218.0	0.40	45.90	6,217.7	15.1	11.0	528,148.65	724,851.26	32° 26' 59.581 N	103° 36' 15.916 W
6,315.0	0.40	46.40	6,314.7	15.6	11.5	528,149.12	724,851.75	32° 26' 59.585 N	103° 36' 15.911 W
6,410.0	0.40	34.50	6,409.7	16.1	12.0	528,149.62	724,852.18	32° 26' 59.590 N	103° 36' 15.906 W
6,507.0	0.40	29.50	6,506.7	16.7	12.3	528,150.20	724,852.54	32° 26' 59.596 N	103° 36' 15.901 W
6,602.0	0.50	19.70	6,601.7	17.4	12.6	528,150.88	724,852.84	32° 26' 59.603 N	103° 36' 15.898 W
6,697.0	0.50	21.10	6,696.7	18.2	12.9	528,151.65	724,853.13	32° 26' 59.610 N	103° 36' 15.894 W
6,793.0	0.50	22.00	6,792.7	18.9	13.2	528,152.43	724,853.44	32° 26' 59.618 N	103° 36' 15.891 W
6,888.0	0.50	18.50	6,887.7	19.7	13.5	528,153.21	724,853.73	32° 26' 59.626 N	103° 36' 15.887 W
6,984.0	0.50	12.80	6,983.7	20.5	13.7	528,154.01	724,853.95	32° 26' 59.634 N	103° 36' 15.885 W
7,081.0	0.30	11.80	7,080.7	21.2	13.9	528,154.68	724,854.10	32° 26' 59.640 N	103° 36' 15.883 W
7,177.0	0.30	14.60	7,176.7	21.7	14.0	528,155.17	724,854.21	32° 26' 59.645 N	103° 36' 15.881 W
7,273.0	0.30	41.50	7,272.6	22.1	14.2	528,155.60	724,854.44	32° 26' 59.649 N	103° 36' 15.879 W
7,369.0	0.40	46.90	7,368.6	22.5	14.6	528,156.01	724,854.85	32° 26' 59.653 N	103° 36' 15.874 W
7,464.0	0.40	45.90	7,463.6	23.0	15.1	528,156.47	724,855.33	32° 26' 59.658 N	103° 36' 15.868 W
7,558.0	0.40	45.50	7,557.6	23.4	15.6	528,156.93	724,855.80	32° 26' 59.662 N	103° 36' 15.863 W
7,654.0	0.30	58.90	7,653.6	23.8	16.0	528,157.29	724,856.26	32° 26' 59.666 N	103° 36' 15.857 W
7,748.0	0.50	54.50	7,747.6	24.2	16.6	528,157.66	724,856.80	32° 26' 59.669 N	103° 36' 15.851 W
7,843.0	0.40	55.00	7,842.6	24.6	17.2	528,158.09	724,857.41	32° 26' 59.674 N	103° 36' 15.844 W
7,938.0	0.30	42.20	7,937.6	25.0	17.6	528,158.46	724,857.85	32° 26' 59.677 N	103° 36' 15.839 W
8,034.0	0.30	56.40	8,033.6	25.3	18.0	528,158.79	724,858.23	32° 26' 59.681 N	103° 36' 15.834 W
8,129.0	0.20	50.50	8,128.6	25.5	18.3	528,159.03	724,858.56	32° 26' 59.683 N	103° 36' 15.830 W
8,224.0	0.10	70.70	8,223.6	25.7	18.6	528,159.17	724,858.77	32° 26' 59.684 N	103° 36' 15.828 W
8,320.0	0.10	91.90	8,319.6	25.7	18.7	528,159.19	724,858.93	32° 26' 59.684 N	103° 36' 15.826 W
8,414.0	0.20	89.50	8,413.6	25.7	19.0	528,159.19	724,859.18	32° 26' 59.684 N	103° 36' 15.823 W
8,509.0	0.10	63.10	8,508.6	25.7	19.2	528,159.23	724,859.42	32° 26' 59.685 N	103° 36' 15.820 W
8,604.0	0.20	342.40	8,603.6	25.9	19.2	528,159.42	724,859.44	32° 26' 59.687 N	103° 36' 15.820 W
8,699.0	0.30	13.40	8,698.6	26.3	19.2	528,159.82	724,859.45	32° 26' 59.691 N	103° 36' 15.820 W
8,793.0	0.20	8.30	8,792.6	26.7	19.3	528,160.23	724,859.53	32° 26' 59.695 N	103° 36' 15.819 W
8,888.0	0.10	127.80	8,887.6	26.8	19.4	528,160.34	724,859.62	32° 26' 59.696 N	103° 36' 15.818 W
8,983.0	0.10	56.40	8,982.6	26.8	19.5	528,160.33	724,859.75	32° 26' 59.696 N	103° 36' 15.816 W
9,076.0	0.00	62.40	9,075.6	26.9	19.6	528,160.38	724,859.82	32° 26' 59.696 N	103° 36' 15.816 W
9,171.0	0.20	312.20	9,170.6	27.0	19.5	528,160.49	724,859.70	32° 26' 59.697 N	103° 36' 15.817 W
9,267.0	0.30	307.50	9,266.6	27.3	19.2	528,160.76	724,859.38	32° 26' 59.700 N	103° 36' 15.821 W
9,362.0	0.20	338.70	9,361.6	27.6	18.9	528,161.06	724,859.12	32° 26' 59.703 N	103° 36' 15.824 W
9,458.0	0.30	60.50	9,457.6	27.8	19.1	528,161.34	724,859.28	32° 26' 59.706 N	103° 36' 15.822 W
9,553.0	0.30	52.60	9,552.6	28.1	19.5	528,161.62	724,859.69	32° 26' 59.708 N	103° 36' 15.817 W
9,648.0	0.30	62.40	9,647.6	28.4	19.9	528,161.88	724,860.11	32° 26' 59.711 N	103° 36' 15.812 W
9,744.0	0.40	81.40	9,743.6	28.5	20.4	528,162.05	724,860.66	32° 26' 59.713 N	103° 36' 15.806 W
9,839.0	0.10	67.00	9,838.6	28.6	20.8	528,162.13	724,861.07	32° 26' 59.713 N	103° 36' 15.801 W
9,934.0	0.20	215.90	9,933.6	28.5	20.8	528,162.03	724,861.05	32° 26' 59.712 N	103° 36' 15.801 W
10,029.0	0.10	261.80	10,028.6	28.4	20.6	528,161.88	724,860.87	32° 26' 59.711 N	103° 36' 15.803 W
10,124.0	0.30	272.10	10,123.6	28.4	20.3	528,161.88	724,860.54	32° 26' 59.711 N	103° 36' 15.807 W
10,219.0	0.30	229.80	10,218.6	28.2	19.9	528,161.73	724,860.10	32° 26' 59.709 N	103° 36' 15.812 W
10,314.0	2.40	336.30	10,313.6	29.9	18.9	528,163.39	724,859.11	32° 26' 59.726 N	103° 36' 15.824 W
10,408.0	6.70	353.10	10,407.3	37.1	17.4	528,170.64	724,857.66	32° 26' 59.798 N	103° 36' 15.840 W
10,453.0	8.30	357.20	10,451.9	43.0	17.0	528,176.49	724,857.18	32° 26' 59.856 N	103° 36' 15.845 W
10,500.0	8.30	357.20	10,498.4	49.8	16.6	528,183.27	724,856.85	32° 26' 59.923 N	103° 36' 15.848 W
10,527.0	10.80	357.20	10,525.0	54.2	16.4	528,187.74	724,856.63	32° 26' 59.967 N	103° 36' 15.851 W
10,626.0	27.30	355.30	10,618.3	86.4	14.1	528,219.85	724,854.30	32° 27' 0.285 N	103° 36' 15.875 W
10,657.0	28.30	354.00	10,645.7	100.7	12.7	528,234.25	724,852.95	32° 27' 0.428 N	103° 36' 15.890 W
10,689.0	29.20	354.60	10,673.8	116.1	11.2	528,249.56	724,851.42	32° 27' 0.579 N	103° 36' 15.906 W
10,721.0	32.00	355.10	10,701.3	132.3	9.7	528,265.78	724,849.97	32° 27' 0.740 N	103° 36' 15.922 W
10,753.0	36.00	355.40	10,727.8	150.1	8.3	528,283.61	724,848.49	32° 27' 0.916 N	103° 36' 15.938 W
10,785.0	39.40	354.20	10,753.1	169.6	6.5	528,303.10	724,846.71	32° 27' 1.109 N	103° 36' 15.957 W

Survey Report - Geographic



Company:	Amtex Energy, Inc	Local Co-ordinate Reference:	Well Dagger State Com #504H
Project:	Lea County, New Mexico	TVD Reference:	Well @ 3809.8usft (United #40)
Site:	Sec 30, T21S, R33E	MD Reference:	Well @ 3809.8usft (United #40)
Well:	Dagger State Com #504H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM5002

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
10,817.0	42.10	354.40	10,777.4	190.4	4.4	528,323.88	724,844.63	32° 27' 1.315 N	103° 36' 15.980 W
10,848.0	45.00	356.00	10,799.8	211.7	2.6	528,345.16	724,842.85	32° 27' 1.526 N	103° 36' 15.999 W
10,880.0	48.30	357.20	10,821.8	234.9	1.3	528,368.39	724,841.48	32° 27' 1.756 N	103° 36' 16.013 W
10,912.0	51.90	359.10	10,842.3	259.4	0.5	528,392.92	724,840.70	32° 27' 1.998 N	103° 36' 16.020 W
10,944.0	54.80	359.10	10,861.4	285.1	0.1	528,418.58	724,840.29	32° 27' 2.252 N	103° 36' 16.023 W
10,961.0	56.18	358.83	10,871.1	299.1	-0.2	528,432.59	724,840.04	32° 27' 2.391 N	103° 36' 16.025 W
Crossed 330' Hardline @ 10961' MD / 10871' TVD									
10,976.0	57.40	358.60	10,879.3	311.6	-0.5	528,445.14	724,839.76	32° 27' 2.515 N	103° 36' 16.027 W
11,008.0	60.90	358.80	10,895.7	339.1	-1.1	528,472.60	724,839.14	32° 27' 2.787 N	103° 36' 16.032 W
11,040.0	63.80	358.80	10,910.5	367.4	-1.7	528,500.93	724,838.54	32° 27' 3.067 N	103° 36' 16.037 W
11,071.0	66.10	359.00	10,923.7	395.5	-2.2	528,529.01	724,838.01	32° 27' 3.345 N	103° 36' 16.041 W
11,103.0	67.80	358.40	10,936.2	424.9	-2.9	528,558.45	724,837.34	32° 27' 3.637 N	103° 36' 16.046 W
11,135.0	69.10	358.60	10,947.9	454.7	-3.7	528,588.20	724,836.56	32° 27' 3.931 N	103° 36' 16.053 W
11,166.0	71.40	359.10	10,958.4	483.9	-4.2	528,617.37	724,835.97	32° 27' 4.220 N	103° 36' 16.057 W
11,197.0	72.80	359.00	10,967.9	513.4	-4.7	528,646.86	724,835.48	32° 27' 4.512 N	103° 36' 16.061 W
11,229.0	74.20	358.40	10,977.0	544.0	-5.4	528,677.54	724,834.79	32° 27' 4.815 N	103° 36' 16.066 W
11,261.0	77.50	358.30	10,984.8	575.0	-6.3	528,708.55	724,833.89	32° 27' 5.122 N	103° 36' 16.074 W
11,292.0	79.00	358.10	10,991.2	605.4	-7.3	528,738.88	724,832.94	32° 27' 5.422 N	103° 36' 16.083 W
11,324.0	81.60	358.40	10,996.6	636.9	-8.2	528,770.41	724,831.98	32° 27' 5.734 N	103° 36' 16.092 W
11,356.0	84.50	359.10	11,000.4	668.7	-8.9	528,802.16	724,831.29	32° 27' 6.049 N	103° 36' 16.097 W
11,387.0	86.50	359.30	11,002.9	699.6	-9.4	528,833.06	724,830.85	32° 27' 6.354 N	103° 36' 16.100 W
11,412.0	87.80	359.30	11,004.1	724.5	-9.7	528,858.03	724,830.55	32° 27' 6.602 N	103° 36' 16.102 W
11,482.0	89.50	359.30	11,005.7	794.5	-10.5	528,928.00	724,829.69	32° 27' 7.294 N	103° 36' 16.106 W
11,578.0	91.60	359.70	11,004.8	890.5	-11.4	529,023.99	724,828.86	32° 27' 8.244 N	103° 36' 16.108 W
11,609.0	92.60	0.20	11,003.7	921.5	-11.4	529,054.97	724,828.83	32° 27' 8.550 N	103° 36' 16.106 W
11,641.0	91.30	0.00	11,002.6	953.4	-11.3	529,086.95	724,828.88	32° 27' 8.867 N	103° 36' 16.103 W
11,672.0	89.40	0.00	11,002.4	984.4	-11.3	529,117.95	724,828.88	32° 27' 9.174 N	103° 36' 16.100 W
11,704.0	89.80	359.80	11,002.6	1,016.4	-11.4	529,149.94	724,828.83	32° 27' 9.490 N	103° 36' 16.098 W
11,736.0	90.40	359.80	11,002.6	1,048.4	-11.5	529,181.94	724,828.72	32° 27' 9.807 N	103° 36' 16.097 W
11,768.0	90.40	359.30	11,002.4	1,080.4	-11.8	529,213.94	724,828.47	32° 27' 10.124 N	103° 36' 16.098 W
11,800.0	90.60	359.30	11,002.1	1,112.4	-12.1	529,245.94	724,828.07	32° 27' 10.440 N	103° 36' 16.100 W
11,830.0	91.40	359.00	11,001.6	1,142.4	-12.6	529,275.93	724,827.63	32° 27' 10.737 N	103° 36' 16.102 W
11,862.0	91.10	358.40	11,000.9	1,174.4	-13.3	529,307.91	724,826.90	32° 27' 11.054 N	103° 36' 16.108 W
11,894.0	90.40	358.40	11,000.4	1,206.4	-14.2	529,339.90	724,826.01	32° 27' 11.370 N	103° 36' 16.116 W
11,926.0	89.90	358.80	11,000.4	1,238.4	-15.0	529,371.89	724,825.23	32° 27' 11.687 N	103° 36' 16.123 W
11,959.0	89.90	359.10	11,000.4	1,271.4	-15.6	529,404.88	724,824.62	32° 27' 12.013 N	103° 36' 16.127 W
11,991.0	90.80	359.30	11,000.2	1,303.4	-16.0	529,436.88	724,824.18	32° 27' 12.330 N	103° 36' 16.130 W
12,023.0	91.50	359.10	10,999.6	1,335.4	-16.5	529,468.87	724,823.73	32° 27' 12.646 N	103° 36' 16.132 W
12,054.0	90.80	359.50	10,999.0	1,366.4	-16.9	529,499.86	724,823.35	32° 27' 12.953 N	103° 36' 16.134 W
12,150.0	91.20	0.50	10,997.3	1,462.3	-16.9	529,595.84	724,823.35	32° 27' 13.903 N	103° 36' 16.127 W
12,245.0	90.60	359.70	10,995.8	1,557.3	-16.7	529,690.83	724,823.52	32° 27' 14.843 N	103° 36' 16.117 W
12,340.0	90.00	359.80	10,995.3	1,652.3	-17.1	529,785.83	724,823.10	32° 27' 15.783 N	103° 36' 16.115 W
12,435.0	89.30	359.00	10,995.9	1,747.3	-18.1	529,880.82	724,822.11	32° 27' 16.723 N	103° 36' 16.119 W
12,530.0	89.90	358.60	10,996.5	1,842.3	-20.1	529,975.80	724,820.12	32° 27' 17.663 N	103° 36' 16.134 W
12,626.0	91.10	358.60	10,995.7	1,938.3	-22.4	530,071.76	724,817.77	32° 27' 18.613 N	103° 36' 16.154 W
12,658.0	91.90	358.60	10,994.9	1,970.2	-23.2	530,103.74	724,816.99	32° 27' 18.929 N	103° 36' 16.161 W
12,688.0	91.80	359.80	10,993.9	2,000.2	-23.6	530,133.72	724,816.57	32° 27' 19.226 N	103° 36' 16.163 W
12,719.0	92.20	1.60	10,992.8	2,031.2	-23.3	530,164.70	724,816.95	32° 27' 19.532 N	103° 36' 16.156 W
12,814.0	91.50	1.10	10,989.7	2,126.1	-21.0	530,259.62	724,819.19	32° 27' 20.471 N	103° 36' 16.122 W
12,909.0	91.90	0.00	10,986.9	2,221.1	-20.1	530,354.58	724,820.10	32° 27' 21.411 N	103° 36' 16.104 W
12,972.0	91.90	0.20	10,984.8	2,284.0	-20.0	530,417.54	724,820.21	32° 27' 22.034 N	103° 36' 16.098 W
13,004.0	91.60	0.40	10,983.9	2,316.0	-19.8	530,449.53	724,820.38	32° 27' 22.350 N	103° 36' 16.093 W
13,098.0	89.40	0.50	10,983.0	2,410.0	-19.1	530,543.51	724,821.12	32° 27' 23.280 N	103° 36' 16.077 W
13,192.0	89.10	359.80	10,984.3	2,504.0	-18.9	530,637.50	724,821.36	32° 27' 24.210 N	103° 36' 16.067 W
13,287.0	91.30	359.70	10,983.9	2,599.0	-19.3	530,732.50	724,820.95	32° 27' 25.150 N	103° 36' 16.064 W

Survey Report - Geographic



Company:	Amtex Energy, Inc	Local Co-ordinate Reference:	Well Dagger State Com #504H
Project:	Lea County, New Mexico	TVD Reference:	Well @ 3809.8usft (United #40)
Site:	Sec 30, T21S, R33E	MD Reference:	Well @ 3809.8usft (United #40)
Well:	Dagger State Com #504H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM5002

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
13,351.0	90.00	0.90	10,983.2	2,663.0	-18.9	530,796.49	724,821.28	32° 27' 25.784 N	103° 36' 16.055 W
13,448.0	88.60	0.40	10,984.4	2,760.0	-17.8	530,893.47	724,822.38	32° 27' 26.743 N	103° 36' 16.035 W
13,511.0	89.10	0.90	10,985.7	2,823.0	-17.1	530,956.46	724,823.10	32° 27' 27.366 N	103° 36' 16.021 W
13,543.0	89.70	1.10	10,986.0	2,854.9	-16.6	530,988.45	724,823.66	32° 27' 27.683 N	103° 36' 16.012 W
13,574.0	90.70	1.20	10,985.9	2,885.9	-15.9	531,019.44	724,824.28	32° 27' 27.990 N	103° 36' 16.003 W
13,607.0	91.30	1.60	10,985.3	2,918.9	-15.1	531,052.43	724,825.08	32° 27' 28.316 N	103° 36' 15.990 W
13,639.0	91.30	2.10	10,984.6	2,950.9	-14.1	531,084.40	724,826.12	32° 27' 28.632 N	103° 36' 15.976 W
13,671.0	90.80	2.10	10,984.0	2,982.9	-12.9	531,116.38	724,827.29	32° 27' 28.949 N	103° 36' 15.960 W
13,703.0	90.80	2.70	10,983.5	3,014.8	-11.6	531,148.34	724,828.63	32° 27' 29.265 N	103° 36' 15.941 W
13,735.0	90.80	2.80	10,983.1	3,046.8	-10.1	531,180.30	724,830.16	32° 27' 29.581 N	103° 36' 15.921 W
13,768.0	90.70	2.80	10,982.7	3,079.8	-8.4	531,213.26	724,831.78	32° 27' 29.907 N	103° 36' 15.900 W
13,791.0	90.40	2.80	10,982.4	3,102.7	-7.3	531,236.23	724,832.90	32° 27' 30.134 N	103° 36' 15.885 W
13,822.0	90.00	3.20	10,982.3	3,133.7	-5.7	531,267.19	724,834.52	32° 27' 30.440 N	103° 36' 15.863 W
13,885.0	90.80	3.00	10,981.9	3,196.6	-2.3	531,330.10	724,837.93	32° 27' 31.063 N	103° 36' 15.818 W
13,981.0	92.90	3.00	10,978.8	3,292.4	2.7	531,425.91	724,842.95	32° 27' 32.010 N	103° 36' 15.752 W
14,076.0	91.70	1.40	10,975.0	3,387.3	6.4	531,520.76	724,846.59	32° 27' 32.949 N	103° 36' 15.702 W
14,171.0	91.50	1.80	10,972.3	3,482.2	9.0	531,615.68	724,849.25	32° 27' 33.888 N	103° 36' 15.664 W
14,267.0	92.30	1.20	10,969.2	3,578.1	11.5	531,711.60	724,851.76	32° 27' 34.837 N	103° 36' 15.627 W
14,362.0	92.50	0.90	10,965.2	3,673.0	13.3	531,806.50	724,853.50	32° 27' 35.776 N	103° 36' 15.599 W
14,458.0	91.70	0.70	10,961.7	3,768.9	14.6	531,902.42	724,854.84	32° 27' 36.725 N	103° 36' 15.576 W
14,554.0	91.00	359.70	10,959.4	3,864.9	15.0	531,998.39	724,855.17	32° 27' 37.674 N	103° 36' 15.564 W
14,649.0	92.10	359.80	10,956.8	3,959.9	14.5	532,093.36	724,854.76	32° 27' 38.614 N	103° 36' 15.561 W
14,745.0	91.70	0.50	10,953.6	4,055.8	14.8	532,189.30	724,855.01	32° 27' 39.564 N	103° 36' 15.551 W
14,841.0	92.00	359.80	10,950.5	4,151.7	15.0	532,285.25	724,855.26	32° 27' 40.513 N	103° 36' 15.540 W
14,936.0	91.60	0.50	10,947.6	4,246.7	15.3	532,380.20	724,855.51	32° 27' 41.453 N	103° 36' 15.530 W
15,030.0	91.50	0.50	10,945.0	4,340.7	16.1	532,474.17	724,856.33	32° 27' 42.382 N	103° 36' 15.513 W
15,125.0	90.70	1.80	10,943.2	4,435.6	18.0	532,569.13	724,858.23	32° 27' 43.322 N	103° 36' 15.483 W
15,219.0	90.90	0.40	10,941.9	4,529.6	19.8	532,663.10	724,860.04	32° 27' 44.251 N	103° 36' 15.454 W
15,315.0	91.70	359.30	10,939.7	4,625.6	19.6	532,759.07	724,859.79	32° 27' 45.201 N	103° 36' 15.449 W
15,409.0	91.40	0.40	10,937.2	4,719.5	19.3	532,853.03	724,859.54	32° 27' 46.131 N	103° 36' 15.445 W
15,505.0	92.10	1.80	10,934.2	4,815.5	21.2	532,948.97	724,861.38	32° 27' 47.080 N	103° 36' 15.416 W
15,599.0	91.40	1.80	10,931.4	4,909.4	24.1	533,042.88	724,864.33	32° 27' 48.009 N	103° 36' 15.374 W
15,694.0	90.90	359.80	10,929.5	5,004.3	25.4	533,137.84	724,865.66	32° 27' 48.949 N	103° 36' 15.351 W
15,790.0	91.50	0.70	10,927.4	5,100.3	25.9	533,233.82	724,866.08	32° 27' 49.899 N	103° 36' 15.338 W
15,886.0	91.70	0.90	10,924.8	5,196.3	27.2	533,329.77	724,867.42	32° 27' 50.848 N	103° 36' 15.315 W
15,982.0	91.40	359.80	10,922.2	5,292.2	27.8	533,425.74	724,868.00	32° 27' 51.797 N	103° 36' 15.300 W
16,077.0	91.70	0.00	10,919.6	5,387.2	27.6	533,520.70	724,867.84	32° 27' 52.737 N	103° 36' 15.295 W
16,173.0	89.00	359.80	10,919.0	5,483.2	27.5	533,616.69	724,867.67	32° 27' 53.687 N	103° 36' 15.289 W
16,268.0	89.30	1.10	10,920.4	5,578.2	28.2	533,711.67	724,868.42	32° 27' 54.627 N	103° 36' 15.273 W
16,363.0	90.30	2.70	10,920.7	5,673.1	31.4	533,806.62	724,871.57	32° 27' 55.566 N	103° 36' 15.228 W
16,458.0	90.90	0.70	10,919.8	5,768.1	34.2	533,901.56	724,874.39	32° 27' 56.505 N	103° 36' 15.188 W
16,554.0	91.10	359.50	10,918.1	5,864.0	34.3	533,997.55	724,874.55	32° 27' 57.455 N	103° 36' 15.178 W
16,650.0	90.20	358.40	10,917.0	5,960.0	32.6	534,093.52	724,872.79	32° 27' 58.405 N	103° 36' 15.191 W
16,746.0	90.90	359.30	10,916.1	6,056.0	30.7	534,189.50	724,870.87	32° 27' 59.355 N	103° 36' 15.206 W
16,841.0	90.30	358.30	10,915.1	6,151.0	28.7	534,284.47	724,868.88	32° 28' 0.295 N	103° 36' 15.222 W
16,936.0	89.00	357.90	10,915.7	6,245.9	25.5	534,379.41	724,865.73	32° 28' 1.234 N	103° 36' 15.251 W
17,030.0	89.50	359.10	10,916.9	6,339.9	23.1	534,473.37	724,863.27	32° 28' 2.164 N	103° 36' 15.272 W
17,125.0	88.50	359.80	10,918.5	6,434.8	22.1	534,568.35	724,862.36	32° 28' 3.104 N	103° 36' 15.275 W
17,219.0	88.60	0.50	10,920.9	6,528.8	22.4	534,662.32	724,862.60	32° 28' 4.034 N	103° 36' 15.265 W
17,260.5	88.82	0.98	10,921.9	6,570.3	22.9	534,703.81	724,863.14	32° 28' 4.445 N	103° 36' 15.255 W
Crossed into Lot "A" Section 19 @ 17260.5' MD / 10922' TVD									
17,314.0	89.10	1.60	10,922.8	6,623.8	24.1	534,757.28	724,864.34	32° 28' 4.974 N	103° 36' 15.237 W
17,409.0	88.50	1.80	10,924.8	6,718.7	26.9	534,852.22	724,867.16	32° 28' 5.913 N	103° 36' 15.197 W
17,505.0	87.90	1.90	10,927.8	6,814.6	30.0	534,948.12	724,870.26	32° 28' 6.862 N	103° 36' 15.153 W
17,601.0	89.30	2.30	10,930.2	6,910.5	33.6	535,044.03	724,873.77	32° 28' 7.810 N	103° 36' 15.104 W

Survey Report - Geographic



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Project:	Lea County, New Mexico	TVD Reference:	Well @ 3809.8usft (United #40)
Site:	Sec 30, T21S, R33E	MD Reference:	Well @ 3809.8usft (United #40)
Well:	Dagger State Com #504H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM5002

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
17,697.0	89.80	3.30	10,930.9	7,006.4	38.2	535,139.91	724,878.46	32° 28' 8.759 N	103° 36' 15.042 W
17,793.0	90.80	4.60	10,930.4	7,102.2	44.9	535,235.67	724,885.08	32° 28' 9.706 N	103° 36' 14.957 W
17,887.0	90.80	3.20	10,929.1	7,195.9	51.3	535,329.45	724,891.47	32° 28' 10.633 N	103° 36' 14.875 W
17,982.0	91.10	3.00	10,927.5	7,290.8	56.4	535,424.29	724,896.61	32° 28' 11.572 N	103° 36' 14.807 W
18,077.0	90.40	3.30	10,926.3	7,385.6	61.6	535,519.14	724,901.83	32° 28' 12.510 N	103° 36' 14.739 W
18,172.0	90.40	3.70	10,925.6	7,480.5	67.4	535,613.96	724,907.63	32° 28' 13.448 N	103° 36' 14.663 W
18,252.5	90.57	4.71	10,925.0	7,560.7	73.3	535,694.24	724,913.52	32° 28' 14.242 N	103° 36' 14.588 W
Crossed 330' Hardline @ 18252.5' MD / 10925' TVD									
18,268.0	90.60	4.90	10,924.8	7,576.2	74.6	535,709.69	724,914.82	32° 28' 14.394 N	103° 36' 14.572 W
18,363.0	91.00	6.50	10,923.5	7,670.7	84.0	535,804.20	724,924.26	32° 28' 15.329 N	103° 36' 14.454 W
18,457.0	91.40	7.70	10,921.5	7,764.0	95.7	535,897.46	724,935.87	32° 28' 16.251 N	103° 36' 14.311 W
18,458.0	91.40	7.72	10,921.5	7,764.9	95.8	535,898.45	724,936.01	32° 28' 16.261 N	103° 36' 14.310 W
BHL - FNL: 125.9' FEL: 401.1' - TD @ 18458' MD / 10921.5' TVD									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,202.0	2,201.9	-12.5	-3.5	Tie into gyros @ 2202.0' MD/2201.9' TVD
10,961.0	10,871.1	299.1	-0.2	Crossed 330' Hardline @ 10961' MD / 10871' TVD
17,260.5	10,921.9	6,570.3	22.9	Crossed into Lot "A" Section 19 @ 17260.5' MD / 10922' TVD
18,252.5	10,925.0	7,560.7	73.3	Crossed 330' Hardline @ 18252.5' MD / 10925' TVD
18,458.0	10,921.5	7,764.9	95.8	BHL - FNL: 125.9' FEL: 401.1'
18,458.0	10,921.5	7,764.9	95.8	TD @ 18458' MD / 10921.5' TVD

Checked By: _____ Approved By: _____ Date: _____