



# **Diamondback Energy**

**Andrews County, Texas**

**UL A-U181, Sec 40, Blk 6**

**UL Blk 6 DDU A 4007WA**

**Wellbore #1**

**Design: Surveys**

## **Survey Report - Geographic**

**04 June, 2019**





## Survey Report - Geographic



<b>Company:</b>	Diamondback Energy	<b>Local Co-ordinate Reference:</b>	Well UL Blk 6 DDU A 4007WA
<b>Project:</b>	Andrews County, Texas	<b>TVD Reference:</b>	RKB @ 2984.0usft (Cactus #170)
<b>Site:</b>	UL A-U181, Sec 40, Blk 6	<b>MD Reference:</b>	RKB @ 2984.0usft (Cactus #170)
<b>Well:</b>	UL Blk 6 DDU A 4007WA	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Surveys	<b>Database:</b>	EDM 5000.1 Single User Db

<b>Project</b>	Andrews County, Texas		
<b>Map System:</b>	US State Plane 1927 (Exact solution)	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	NAD 1927 (NADCON CONUS)		
<b>Map Zone:</b>	Texas North Central 4202		

<b>Site</b>	UL A-U181, Sec 40, Blk 6		
<b>Site Position:</b>		<b>Northing:</b>	319,998.00 usft
<b>From:</b>	Map	<b>Easting:</b>	545,772.00 usft
<b>Position Uncertainty:</b>	0.0 usft	<b>Slot Radius:</b>	13-3/16 "
		<b>Latitude:</b>	32° 27' 23.464 N
		<b>Longitude:</b>	102° 12' 58.141 W
		<b>Grid Convergence:</b>	-2.57 °

<b>Well</b>	UL Blk 6 DDU A 4007WA		
<b>Well Position</b>	<b>+N/-S</b>	0.0 usft	<b>Northing:</b>
	<b>+E/-W</b>	0.0 usft	<b>Easting:</b>
<b>Position Uncertainty</b>	0.0 usft		<b>Wellhead Elevation:</b>
			<b>Latitude:</b>
			<b>Longitude:</b>
			<b>Ground Level:</b>

<b>Wellbore</b>	Wellbore #1		
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination</b>
			(°)
	User Defined	4/11/2019	6.17
			<b>Dip Angle</b>
			(°)
			60.18
			<b>Field Strength</b>
			(nT)
			47,833.90000000

<b>Design</b>	Surveys		
<b>Audit Notes:</b>			
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL
		<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD)</b>	<b>+N/-S</b>	<b>+E/-W</b>
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			<b>Direction</b>
			(°)
			347.49

<b>Survey Program</b>	<b>Date</b>	6/4/2019		
<b>From</b>	<b>To</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
(usft)	(usft)			
129.0	1,800.0	Spudder Surveys (Wellbore #1)	MWD Default	OWSG MWD - Standard
1,868.0	23,431.0	QES Surveys - Full FDIR to TD (Wellbore)	MWD+IFR1	OWSG MWD + IFR1

<b>Survey</b>									
<b>Measured</b>	<b>Inclination</b>	<b>Azimuth</b>	<b>Vertical</b>	<b>+N/-S</b>	<b>+E/-W</b>	<b>Map</b>	<b>Map</b>	<b>Latitude</b>	<b>Longitude</b>
<b>Depth</b>	(°)	(°)	<b>Depth</b>	(usft)	(usft)	<b>Northing</b>	<b>Easting</b>		
(usft)			(usft)			(usft)	(usft)		
0.0	0.00	0.00	0.0	0.0	0.0	319,991.00	545,743.00	32° 27' 23.382 N	102° 12' 58.475 W
129.0	0.35	345.40	129.0	0.4	-0.1	319,991.38	545,742.90	32° 27' 23.386 N	102° 12' 58.477 W
218.0	0.35	59.10	218.0	0.8	0.1	319,991.78	545,743.07	32° 27' 23.390 N	102° 12' 58.475 W
307.0	0.00	183.50	307.0	0.9	0.3	319,991.92	545,743.30	32° 27' 23.391 N	102° 12' 58.472 W
397.0	0.18	112.80	397.0	0.9	0.4	319,991.87	545,743.43	32° 27' 23.391 N	102° 12' 58.471 W
481.0	0.00	13.90	481.0	0.8	0.6	319,991.81	545,743.55	32° 27' 23.390 N	102° 12' 58.469 W
565.0	0.26	29.30	565.0	1.0	0.6	319,991.98	545,743.65	32° 27' 23.392 N	102° 12' 58.468 W
648.0	0.70	13.14	648.0	1.6	0.9	319,992.64	545,743.85	32° 27' 23.399 N	102° 12' 58.466 W
731.0	0.79	11.91	731.0	2.7	1.1	319,993.69	545,744.09	32° 27' 23.409 N	102° 12' 58.464 W
816.0	0.79	5.93	816.0	3.9	1.3	319,994.85	545,744.27	32° 27' 23.421 N	102° 12' 58.463 W
901.0	0.62	50.49	901.0	4.7	1.7	319,995.72	545,744.68	32° 27' 23.429 N	102° 12' 58.458 W



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<b>Project:</b>	Andrews County, Texas	<b>TVD Reference:</b>	RKB @ 2984.0usft (Cactus #170)
<b>Site:</b>	UL A-U181, Sec 40, Blk 6	<b>MD Reference:</b>	RKB @ 2984.0usft (Cactus #170)
<b>Well:</b>	UL Blk 6 DDU A 4007WA	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Surveys	<b>Database:</b>	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
985.0	0.70	29.75	985.0	5.5	2.3	319,996.46	545,745.29	32° 27' 23.437 N	102° 12' 58.452 W
1,070.0	1.14	358.72	1,070.0	6.8	2.5	319,997.75	545,745.53	32° 27' 23.450 N	102° 12' 58.450 W
1,155.0	1.41	17.88	1,154.9	8.6	2.8	319,999.60	545,745.83	32° 27' 23.468 N	102° 12' 58.447 W
1,179.0	1.14	354.84	1,178.9	9.1	2.9	320,000.11	545,745.90	32° 27' 23.473 N	102° 12' 58.446 W
1,324.0	1.06	13.49	1,323.9	11.9	3.1	320,002.86	545,746.08	32° 27' 23.501 N	102° 12' 58.446 W
1,493.0	0.70	9.09	1,492.9	14.4	3.6	320,005.39	545,746.61	32° 27' 23.526 N	102° 12' 58.441 W
1,577.0	0.62	359.07	1,576.9	15.4	3.7	320,006.36	545,746.68	32° 27' 23.535 N	102° 12' 58.441 W
1,662.0	1.14	10.85	1,661.9	16.6	3.8	320,007.65	545,746.84	32° 27' 23.548 N	102° 12' 58.439 W
1,745.0	0.63	353.36	1,744.9	17.9	3.9	320,008.91	545,746.94	32° 27' 23.561 N	102° 12' 58.439 W
1,800.0	0.26	1.45	1,799.9	18.3	3.9	320,009.34	545,746.91	32° 27' 23.565 N	102° 12' 58.440 W
MWD Tie-in @ 1800.0' MD / 1799.9' TVD									
1,868.0	0.16	29.20	1,867.9	18.6	4.0	320,009.57	545,746.96	32° 27' 23.567 N	102° 12' 58.439 W
1,900.0	0.12	358.15	1,899.9	18.6	4.0	320,009.64	545,746.98	32° 27' 23.568 N	102° 12' 58.439 W
1,995.0	1.14	49.99	1,994.8	19.4	4.7	320,010.35	545,747.70	32° 27' 23.575 N	102° 12' 58.431 W
2,090.0	2.19	39.82	2,089.8	21.4	6.6	320,012.35	545,749.58	32° 27' 23.596 N	102° 12' 58.410 W
2,185.0	2.95	44.75	2,184.7	24.5	9.5	320,015.48	545,752.47	32° 27' 23.628 N	102° 12' 58.378 W
2,280.0	3.91	45.49	2,279.5	28.5	13.5	320,019.49	545,756.50	32° 27' 23.670 N	102° 12' 58.333 W
2,375.0	4.77	40.58	2,374.3	33.8	18.4	320,024.76	545,761.38	32° 27' 23.724 N	102° 12' 58.279 W
2,470.0	5.57	40.31	2,468.9	40.3	23.9	320,031.28	545,766.93	32° 27' 23.791 N	102° 12' 58.218 W
2,565.0	6.20	39.15	2,563.4	47.8	30.1	320,038.77	545,773.15	32° 27' 23.868 N	102° 12' 58.149 W
2,660.0	6.55	32.69	2,657.8	56.3	36.3	320,047.31	545,779.32	32° 27' 23.955 N	102° 12' 58.082 W
2,756.0	6.91	31.20	2,753.1	65.9	42.3	320,056.86	545,785.27	32° 27' 24.052 N	102° 12' 58.017 W
2,850.0	6.97	31.64	2,846.4	75.6	48.2	320,066.55	545,791.19	32° 27' 24.150 N	102° 12' 57.953 W
2,945.0	6.93	31.22	2,940.7	85.4	54.2	320,076.36	545,797.18	32° 27' 24.250 N	102° 12' 57.888 W
3,040.0	7.04	31.18	3,035.0	95.2	60.2	320,086.24	545,803.17	32° 27' 24.350 N	102° 12' 57.824 W
3,136.0	6.89	31.14	3,130.3	105.2	66.2	320,096.20	545,809.19	32° 27' 24.451 N	102° 12' 57.759 W
3,231.0	6.67	29.26	3,224.7	114.9	71.8	320,105.89	545,814.83	32° 27' 24.550 N	102° 12' 57.698 W
3,326.0	6.66	29.74	3,319.0	124.5	77.3	320,115.49	545,820.26	32° 27' 24.647 N	102° 12' 57.640 W
3,421.0	6.81	30.51	3,413.4	134.1	82.9	320,125.13	545,825.85	32° 27' 24.745 N	102° 12' 57.580 W
3,516.0	6.57	28.94	3,507.7	143.7	88.3	320,134.73	545,831.34	32° 27' 24.842 N	102° 12' 57.521 W
3,611.0	6.58	28.23	3,602.1	153.3	93.5	320,144.29	545,836.55	32° 27' 24.939 N	102° 12' 57.465 W
3,706.0	6.45	28.72	3,696.5	162.8	98.7	320,153.76	545,841.69	32° 27' 25.035 N	102° 12' 57.410 W
3,801.0	6.38	29.08	3,790.9	172.1	103.8	320,163.05	545,846.82	32° 27' 25.129 N	102° 12' 57.355 W
3,895.0	6.39	28.19	3,884.3	181.2	108.8	320,172.23	545,851.83	32° 27' 25.222 N	102° 12' 57.302 W
3,990.0	6.18	26.65	3,978.7	190.5	113.6	320,181.46	545,856.62	32° 27' 25.315 N	102° 12' 57.251 W
4,085.0	6.07	29.91	4,073.2	199.4	118.4	320,190.38	545,861.42	32° 27' 25.406 N	102° 12' 57.199 W
4,180.0	6.00	32.56	4,167.7	207.9	123.6	320,198.92	545,866.59	32° 27' 25.492 N	102° 12' 57.143 W
4,275.0	5.83	32.68	4,262.2	216.2	128.9	320,207.17	545,871.87	32° 27' 25.576 N	102° 12' 57.086 W
4,370.0	5.67	32.14	4,356.7	224.2	134.0	320,215.20	545,876.97	32° 27' 25.658 N	102° 12' 57.031 W
4,465.0	5.65	31.88	4,451.2	232.1	138.9	320,223.15	545,881.94	32° 27' 25.739 N	102° 12' 56.977 W
4,559.0	5.40	31.48	4,544.8	239.9	143.7	320,230.85	545,886.69	32° 27' 25.817 N	102° 12' 56.926 W
4,654.0	5.13	31.87	4,639.4	247.3	148.3	320,238.27	545,891.27	32° 27' 25.892 N	102° 12' 56.876 W
4,749.0	4.87	30.35	4,734.0	254.4	152.5	320,245.35	545,895.55	32° 27' 25.964 N	102° 12' 56.830 W
4,844.0	4.93	29.65	4,828.7	261.4	156.6	320,252.38	545,899.60	32° 27' 26.036 N	102° 12' 56.786 W
4,939.0	4.85	28.33	4,923.3	268.5	160.5	320,259.46	545,903.53	32° 27' 26.107 N	102° 12' 56.744 W
5,034.0	4.84	27.03	5,018.0	275.6	164.3	320,266.57	545,907.26	32° 27' 26.179 N	102° 12' 56.705 W
5,129.0	4.76	26.21	5,112.7	282.7	167.8	320,273.67	545,910.82	32° 27' 26.251 N	102° 12' 56.667 W
5,224.0	4.82	25.35	5,207.3	289.8	171.3	320,280.82	545,914.27	32° 27' 26.323 N	102° 12' 56.630 W
5,319.0	4.74	24.14	5,302.0	297.0	174.6	320,288.01	545,917.58	32° 27' 26.396 N	102° 12' 56.595 W
5,413.0	4.80	23.04	5,395.7	304.2	177.7	320,295.17	545,920.71	32° 27' 26.468 N	102° 12' 56.563 W
5,508.0	4.72	23.50	5,490.3	311.4	180.8	320,302.41	545,923.82	32° 27' 26.541 N	102° 12' 56.530 W
5,602.0	4.67	22.83	5,584.0	318.5	183.8	320,309.49	545,926.85	32° 27' 26.612 N	102° 12' 56.499 W
5,697.0	4.60	22.24	5,678.7	325.6	186.8	320,316.58	545,929.79	32° 27' 26.684 N	102° 12' 56.468 W
5,793.0	4.57	22.33	5,774.4	332.7	189.7	320,323.68	545,932.70	32° 27' 26.755 N	102° 12' 56.438 W
5,888.0	4.52	21.21	5,869.1	339.7	192.5	320,330.67	545,935.50	32° 27' 26.825 N	102° 12' 56.409 W



# Survey Report - Geographic



<b>Company:</b>	Diamondback Energy	<b>Local Co-ordinate Reference:</b>	Well UL Blk 6 DDU A 4007WA
<b>Project:</b>	Andrews County, Texas	<b>TVD Reference:</b>	RKB @ 2984.0usft (Cactus #170)
<b>Site:</b>	UL A-U181, Sec 40, Blk 6	<b>MD Reference:</b>	RKB @ 2984.0usft (Cactus #170)
<b>Well:</b>	UL Blk 6 DDU A 4007WA	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Surveys	<b>Database:</b>	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
5,983.0	4.43	21.31	5,963.8	346.6	195.2	320,337.58	545,938.18	32° 27' 26.895 N	102° 12' 56.381 W
6,078.0	4.39	22.02	6,058.5	353.4	197.9	320,344.36	545,940.88	32° 27' 26.963 N	102° 12' 56.353 W
6,173.0	4.32	22.69	6,153.3	360.0	200.6	320,351.04	545,943.62	32° 27' 27.030 N	102° 12' 56.325 W
6,268.0	4.34	22.16	6,248.0	366.7	203.4	320,357.67	545,946.36	32° 27' 27.097 N	102° 12' 56.296 W
6,363.0	4.16	22.47	6,342.7	373.2	206.0	320,364.18	545,949.03	32° 27' 27.163 N	102° 12' 56.269 W
6,458.0	3.95	21.77	6,437.5	379.4	208.6	320,370.40	545,951.56	32° 27' 27.225 N	102° 12' 56.242 W
6,483.0	3.89	22.33	6,462.4	381.0	209.2	320,371.99	545,952.20	32° 27' 27.241 N	102° 12' 56.236 W
6,522.8	3.90	21.97	6,502.1	383.5	210.2	320,374.49	545,953.22	32° 27' 27.266 N	102° 12' 56.225 W
VP - UL Blk 6 DDU A 4007WA D#4									
6,522.9	3.90	21.97	6,502.3	383.5	210.2	320,374.50	545,953.23	32° 27' 27.267 N	102° 12' 56.225 W
TEST VP - DDU A 4007WA									
6,587.0	3.91	21.40	6,566.2	387.6	211.8	320,378.55	545,954.84	32° 27' 27.307 N	102° 12' 56.209 W
6,682.0	3.56	21.92	6,661.0	393.3	214.1	320,384.30	545,957.12	32° 27' 27.365 N	102° 12' 56.185 W
6,777.0	3.45	33.05	6,755.8	398.4	216.8	320,389.43	545,959.78	32° 27' 27.417 N	102° 12' 56.157 W
6,871.0	3.07	29.70	6,849.7	403.0	219.6	320,393.99	545,962.57	32° 27' 27.463 N	102° 12' 56.126 W
6,966.0	2.23	38.24	6,944.6	406.7	222.0	320,397.65	545,964.98	32° 27' 27.501 N	102° 12' 56.100 W
7,060.0	1.66	49.49	7,038.5	409.0	224.1	320,399.97	545,967.14	32° 27' 27.525 N	102° 12' 56.076 W
7,155.0	1.44	57.62	7,133.5	410.5	226.2	320,401.51	545,969.20	32° 27' 27.541 N	102° 12' 56.053 W
7,250.0	1.32	56.76	7,228.4	411.7	228.1	320,402.75	545,971.12	32° 27' 27.554 N	102° 12' 56.031 W
7,345.0	1.16	62.26	7,323.4	412.8	229.9	320,403.79	545,972.89	32° 27' 27.565 N	102° 12' 56.011 W
7,440.0	1.06	77.97	7,418.4	413.4	231.6	320,404.42	545,974.60	32° 27' 27.572 N	102° 12' 55.992 W
7,535.0	0.97	76.19	7,513.4	413.8	233.2	320,404.80	545,976.24	32° 27' 27.576 N	102° 12' 55.973 W
7,631.0	0.74	64.91	7,609.4	414.3	234.6	320,405.26	545,977.59	32° 27' 27.581 N	102° 12' 55.957 W
7,725.0	0.71	61.20	7,703.4	414.8	235.6	320,405.79	545,978.65	32° 27' 27.587 N	102° 12' 55.945 W
7,820.0	0.64	44.43	7,798.4	415.5	236.5	320,406.46	545,979.54	32° 27' 27.594 N	102° 12' 55.935 W
7,915.0	0.36	6.64	7,893.4	416.1	236.9	320,407.13	545,979.94	32° 27' 27.601 N	102° 12' 55.931 W
8,010.0	0.52	5.48	7,988.4	416.9	237.0	320,407.86	545,980.02	32° 27' 27.608 N	102° 12' 55.930 W
8,105.0	0.43	4.76	8,083.4	417.6	237.1	320,408.64	545,980.09	32° 27' 27.616 N	102° 12' 55.930 W
8,200.0	0.46	6.57	8,178.4	418.4	237.2	320,409.38	545,980.16	32° 27' 27.623 N	102° 12' 55.929 W
8,295.0	0.21	353.19	8,273.3	418.9	237.2	320,409.93	545,980.18	32° 27' 27.629 N	102° 12' 55.929 W
8,390.0	0.87	183.63	8,368.3	418.4	237.1	320,409.38	545,980.12	32° 27' 27.623 N	102° 12' 55.930 W
8,485.0	1.19	140.03	8,463.3	416.9	237.7	320,407.91	545,980.71	32° 27' 27.609 N	102° 12' 55.922 W
8,580.0	1.00	124.49	8,558.3	415.7	239.0	320,406.68	545,982.02	32° 27' 27.597 N	102° 12' 55.906 W
8,675.0	1.14	133.03	8,653.3	414.6	240.4	320,405.57	545,983.40	32° 27' 27.587 N	102° 12' 55.890 W
8,770.0	1.41	142.96	8,748.3	413.0	241.8	320,403.99	545,984.79	32° 27' 27.572 N	102° 12' 55.873 W
8,865.0	1.53	143.85	8,843.2	411.0	243.2	320,402.03	545,986.24	32° 27' 27.553 N	102° 12' 55.855 W
8,947.1	1.41	138.26	8,925.3	409.4	244.6	320,400.39	545,987.56	32° 27' 27.538 N	102° 12' 55.838 W
VP - DDU A 4007WA									
8,960.0	1.39	137.29	8,938.2	409.2	244.8	320,400.16	545,987.77	32° 27' 27.536 N	102° 12' 55.836 W
9,055.0	1.32	112.89	9,033.2	407.9	246.6	320,398.89	545,989.56	32° 27' 27.524 N	102° 12' 55.814 W
9,079.0	1.38	116.82	9,057.2	407.7	247.1	320,398.65	545,990.08	32° 27' 27.522 N	102° 12' 55.808 W
9,174.0	5.50	325.61	9,152.1	410.9	245.5	320,401.89	545,988.52	32° 27' 27.553 N	102° 12' 55.828 W
9,269.0	19.35	328.37	9,244.6	428.1	234.6	320,419.14	545,977.65	32° 27' 27.719 N	102° 12' 55.964 W
9,364.0	23.44	332.70	9,333.0	458.3	217.7	320,449.34	545,960.72	32° 27' 28.010 N	102° 12' 56.177 W
9,459.0	28.43	333.79	9,418.5	495.4	199.0	320,486.44	545,942.05	32° 27' 28.368 N	102° 12' 56.414 W
9,553.0	29.69	343.09	9,500.7	537.8	182.4	320,528.82	545,925.39	32° 27' 28.780 N	102° 12' 56.631 W
9,648.0	36.59	349.29	9,580.2	588.2	170.3	320,579.22	545,913.26	32° 27' 29.273 N	102° 12' 56.798 W
9,743.0	48.76	339.90	9,650.0	649.9	152.6	320,640.88	545,895.64	32° 27' 29.874 N	102° 12' 57.036 W
9,838.0	57.68	344.20	9,706.8	722.2	129.4	320,713.21	545,872.39	32° 27' 30.579 N	102° 12' 57.345 W
9,933.0	63.51	348.81	9,753.4	802.6	110.2	320,793.65	545,853.18	32° 27' 31.366 N	102° 12' 57.611 W
10,028.0	72.70	346.56	9,788.8	888.7	91.3	320,879.65	545,834.35	32° 27' 32.208 N	102° 12' 57.876 W
10,123.0	77.25	347.38	9,813.5	978.0	70.7	320,969.02	545,813.67	32° 27' 33.082 N	102° 12' 58.164 W
10,157.2	79.99	347.76	9,820.2	1,010.8	63.5	321,001.76	545,806.46	32° 27' 33.402 N	102° 12' 58.265 W
80° Crossed @ 10157.2'MD/9820.2'TVD									



# Survey Report - Geographic



<b>Company:</b>	Diamondback Energy	<b>Local Co-ordinate Reference:</b>	Well UL Blk 6 DDU A 4007WA
<b>Project:</b>	Andrews County, Texas	<b>TVD Reference:</b>	RKB @ 2984.0usft (Cactus #170)
<b>Site:</b>	UL A-U181, Sec 40, Blk 6	<b>MD Reference:</b>	RKB @ 2984.0usft (Cactus #170)
<b>Well:</b>	UL Blk 6 DDU A 4007WA	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Surveys	<b>Database:</b>	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
10,218.0	84.85	348.43	9,828.2	1,069.7	51.0	321,060.72	545,794.03	32° 27' 33.980 N	102° 12' 58.441 W
10,248.0	86.36	348.83	9,830.5	1,099.0	45.1	321,090.04	545,788.14	32° 27' 34.267 N	102° 12' 58.525 W
Enter NPZ @ 10248.0'MD/9830.5'TVD									
10,313.0	89.64	349.70	9,832.8	1,162.9	33.0	321,153.85	545,776.04	32° 27' 34.892 N	102° 12' 58.699 W
10,348.0	89.06	350.35	9,833.2	1,197.3	27.0	321,188.32	545,769.98	32° 27' 35.231 N	102° 12' 58.788 W
Exit NPZ @ 10348.0'MD/9833.2'TVD									
10,350.2	89.02	350.39	9,833.2	1,199.5	26.6	321,190.54	545,769.60	32° 27' 35.252 N	102° 12' 58.794 W
FTP - DDU A 4007WA									
10,408.0	88.07	351.47	9,834.7	1,256.6	17.5	321,247.55	545,760.50	32° 27' 35.812 N	102° 12' 58.930 W
10,503.0	86.84	351.20	9,838.9	1,350.4	3.2	321,341.37	545,746.21	32° 27' 36.733 N	102° 12' 59.145 W
10,597.0	86.53	349.98	9,844.4	1,443.0	-12.1	321,433.95	545,730.86	32° 27' 37.641 N	102° 12' 59.373 W
10,692.0	88.85	348.36	9,848.2	1,536.2	-30.0	321,527.17	545,713.03	32° 27' 38.555 N	102° 12' 59.630 W
10,787.0	89.72	348.00	9,849.4	1,629.2	-49.4	321,620.15	545,693.57	32° 27' 39.466 N	102° 12' 59.905 W
10,882.0	89.02	346.39	9,850.4	1,721.8	-70.5	321,712.78	545,672.52	32° 27' 40.372 N	102° 13' 0.199 W
10,977.0	90.25	348.04	9,851.0	1,814.4	-91.5	321,805.41	545,651.50	32° 27' 41.278 N	102° 13' 0.493 W
11,072.0	90.31	349.73	9,850.6	1,907.6	-109.8	321,898.63	545,633.18	32° 27' 42.192 N	102° 13' 0.755 W
11,166.0	90.22	348.73	9,850.1	2,000.0	-127.4	321,990.97	545,615.62	32° 27' 43.097 N	102° 13' 1.008 W
11,261.0	91.43	349.08	9,848.7	2,093.2	-145.7	322,084.18	545,597.34	32° 27' 44.010 N	102° 13' 1.270 W
11,355.0	91.12	349.10	9,846.7	2,185.5	-163.4	322,176.46	545,579.55	32° 27' 44.915 N	102° 13' 1.526 W
11,449.0	91.01	348.31	9,844.9	2,277.6	-181.9	322,268.62	545,561.15	32° 27' 45.817 N	102° 13' 1.789 W
11,544.0	90.98	347.20	9,843.3	2,370.4	-202.0	322,361.45	545,541.00	32° 27' 46.726 N	102° 13' 2.073 W
11,639.0	90.64	348.17	9,841.9	2,463.3	-222.3	322,454.25	545,520.74	32° 27' 47.635 N	102° 13' 2.357 W
11,734.0	88.77	347.73	9,842.4	2,556.2	-242.1	322,547.15	545,500.91	32° 27' 48.544 N	102° 13' 2.637 W
11,829.0	88.69	347.64	9,844.5	2,648.9	-262.4	322,639.94	545,480.65	32° 27' 49.453 N	102° 13' 2.922 W
11,923.0	88.69	347.64	9,846.7	2,740.7	-282.5	322,731.74	545,460.54	32° 27' 50.351 N	102° 13' 3.205 W
12,018.0	87.54	346.86	9,849.8	2,833.3	-303.4	322,824.34	545,439.58	32° 27' 51.257 N	102° 13' 3.498 W
12,114.0	89.33	347.44	9,852.4	2,926.9	-324.8	322,917.90	545,418.24	32° 27' 52.173 N	102° 13' 3.795 W
12,186.2	89.78	347.76	9,853.0	2,997.4	-340.3	322,988.41	545,402.74	32° 27' 52.863 N	102° 13' 4.013 W
3000VS - 4007WA									
12,208.0	89.92	347.86	9,853.0	3,018.7	-344.9	323,009.72	545,398.14	32° 27' 53.072 N	102° 13' 4.078 W
12,304.0	89.27	347.26	9,853.7	3,112.5	-365.5	323,103.47	545,377.46	32° 27' 53.989 N	102° 13' 4.368 W
12,399.0	89.16	347.56	9,855.0	3,205.2	-386.3	323,196.17	545,356.75	32° 27' 54.896 N	102° 13' 4.658 W
12,495.0	90.42	348.00	9,855.4	3,299.0	-406.6	323,290.00	545,336.43	32° 27' 55.815 N	102° 13' 4.944 W
12,590.0	90.59	347.70	9,854.5	3,391.9	-426.6	323,382.86	545,316.44	32° 27' 56.724 N	102° 13' 5.226 W
12,684.0	89.86	347.90	9,854.1	3,483.7	-446.4	323,474.74	545,296.57	32° 27' 57.623 N	102° 13' 5.506 W
12,778.0	89.75	347.20	9,854.5	3,575.5	-466.7	323,566.53	545,276.31	32° 27' 58.522 N	102° 13' 5.790 W
12,872.0	90.00	346.92	9,854.7	3,667.1	-487.7	323,658.14	545,255.26	32° 27' 59.418 N	102° 13' 6.084 W
12,966.0	92.71	346.42	9,852.4	3,758.6	-509.4	323,749.57	545,233.60	32° 28' 0.312 N	102° 13' 6.384 W
13,061.0	91.71	347.56	9,848.8	3,851.1	-530.8	323,842.06	545,212.23	32° 28' 1.217 N	102° 13' 6.682 W
13,156.0	89.44	347.90	9,847.8	3,943.9	-551.0	323,934.88	545,192.04	32° 28' 2.126 N	102° 13' 6.966 W
13,251.0	89.52	347.83	9,848.7	4,036.8	-570.9	324,027.76	545,172.07	32° 28' 3.035 N	102° 13' 7.248 W
13,346.0	92.35	349.71	9,847.1	4,129.9	-589.4	324,120.91	545,153.57	32° 28' 3.948 N	102° 13' 7.512 W
13,442.0	91.37	350.63	9,844.0	4,224.5	-605.8	324,215.45	545,137.19	32° 28' 4.875 N	102° 13' 7.753 W
13,536.0	88.66	348.07	9,844.0	4,316.8	-623.2	324,307.81	545,119.82	32° 28' 5.781 N	102° 13' 8.004 W
13,631.0	88.83	347.25	9,846.1	4,409.6	-643.5	324,400.60	545,099.53	32° 28' 6.689 N	102° 13' 8.289 W
13,726.0	89.83	347.36	9,847.2	4,502.3	-664.4	324,493.27	545,078.65	32° 28' 7.596 N	102° 13' 8.581 W
13,820.0	88.69	347.94	9,848.4	4,594.1	-684.5	324,585.08	545,058.55	32° 28' 8.494 N	102° 13' 8.863 W
13,915.0	86.81	348.38	9,852.1	4,687.0	-703.9	324,677.98	545,039.07	32° 28' 9.404 N	102° 13' 9.139 W
14,010.0	89.02	347.71	9,855.6	4,779.9	-723.6	324,770.86	545,019.41	32° 28' 10.314 N	102° 13' 9.417 W
14,105.0	89.83	347.90	9,856.5	4,872.7	-743.7	324,863.71	544,999.34	32° 28' 11.223 N	102° 13' 9.700 W
14,186.8	90.19	348.14	9,856.5	4,952.7	-760.6	324,943.73	544,982.36	32° 28' 12.006 N	102° 13' 9.940 W
5000VS (2) - 4007WA - 5000VS - 4007WA									
14,200.0	90.25	348.18	9,856.5	4,965.6	-763.3	324,956.64	544,979.65	32° 28' 12.133 N	102° 13' 9.978 W
14,294.0	90.45	347.20	9,855.9	5,057.5	-783.4	325,048.48	544,959.61	32° 28' 13.032 N	102° 13' 10.260 W



# Survey Report - Geographic



<b>Company:</b>	Diamondback Energy	<b>Local Co-ordinate Reference:</b>	Well UL Blk 6 DDU A 4007WA
<b>Project:</b>	Andrews County, Texas	<b>TVD Reference:</b>	RKB @ 2984.0usft (Cactus #170)
<b>Site:</b>	UL A-U181, Sec 40, Blk 6	<b>MD Reference:</b>	RKB @ 2984.0usft (Cactus #170)
<b>Well:</b>	UL Blk 6 DDU A 4007WA	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Surveys	<b>Database:</b>	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
14,389.0	89.41	345.03	9,856.0	5,149.7	-806.2	325,140.70	544,936.82	32° 28' 13.933 N	102° 13' 10.574 W
14,483.0	90.36	344.44	9,856.2	5,240.4	-830.9	325,231.38	544,912.07	32° 28' 14.819 N	102° 13' 10.910 W
14,579.0	89.83	344.81	9,856.1	5,332.9	-856.4	325,323.94	544,886.62	32° 28' 15.722 N	102° 13' 11.256 W
14,673.0	88.74	345.99	9,857.2	5,423.9	-880.1	325,414.90	544,862.92	32° 28' 16.611 N	102° 13' 11.580 W
14,769.0	88.52	344.83	9,859.5	5,516.8	-904.3	325,507.77	544,838.75	32° 28' 17.518 N	102° 13' 11.910 W
14,864.0	88.69	346.23	9,861.8	5,608.7	-928.0	325,599.73	544,815.02	32° 28' 18.417 N	102° 13' 12.235 W
14,959.0	89.47	348.28	9,863.4	5,701.4	-948.9	325,692.37	544,794.06	32° 28' 19.323 N	102° 13' 12.528 W
15,054.0	89.97	348.02	9,863.8	5,794.3	-968.4	325,785.35	544,774.56	32° 28' 20.234 N	102° 13' 12.804 W
15,150.0	90.48	347.53	9,863.4	5,888.2	-988.8	325,879.17	544,754.23	32° 28' 21.152 N	102° 13' 13.091 W
15,245.0	90.39	349.91	9,862.7	5,981.3	-1,007.4	325,972.32	544,735.65	32° 28' 22.065 N	102° 13' 13.356 W
15,340.0	90.42	349.76	9,862.1	6,074.8	-1,024.1	326,065.83	544,718.88	32° 28' 22.982 N	102° 13' 13.601 W
15,436.0	90.81	349.34	9,861.0	6,169.2	-1,041.5	326,160.23	544,701.47	32° 28' 23.907 N	102° 13' 13.853 W
15,531.0	88.52	349.83	9,861.6	6,262.7	-1,058.7	326,253.66	544,684.30	32° 28' 24.823 N	102° 13' 14.102 W
15,625.0	88.83	350.72	9,863.8	6,355.3	-1,074.6	326,346.28	544,668.43	32° 28' 25.732 N	102° 13' 14.336 W
15,687.4	88.55	350.13	9,865.2	6,416.8	-1,085.0	326,407.81	544,658.04	32° 28' 26.336 N	102° 13' 14.489 W
6500VS (2) - 4007WA									
15,687.7	88.55	350.13	9,865.2	6,417.1	-1,085.0	326,408.08	544,658.00	32° 28' 26.338 N	102° 13' 14.490 W
6500VS (3) - 4007WA - 6500VS - 4007WA									
15,720.0	88.41	349.82	9,866.0	6,448.9	-1,090.6	326,439.89	544,652.37	32° 28' 26.650 N	102° 13' 14.572 W
15,815.0	86.50	346.88	9,870.3	6,541.8	-1,109.8	326,532.82	544,633.21	32° 28' 27.560 N	102° 13' 14.845 W
15,910.0	86.31	347.37	9,876.2	6,634.3	-1,130.9	326,625.25	544,612.09	32° 28' 28.465 N	102° 13' 15.139 W
16,004.0	87.40	346.65	9,881.4	6,725.7	-1,152.0	326,716.71	544,590.99	32° 28' 29.360 N	102° 13' 15.433 W
16,099.0	88.46	347.28	9,884.8	6,818.2	-1,173.4	326,809.20	544,569.58	32° 28' 30.264 N	102° 13' 15.732 W
16,194.0	89.47	346.76	9,886.5	6,910.8	-1,194.8	326,901.75	544,548.24	32° 28' 31.170 N	102° 13' 16.029 W
16,288.0	87.15	345.94	9,889.3	7,002.1	-1,216.9	326,993.05	544,526.07	32° 28' 32.063 N	102° 13' 16.335 W
16,384.0	88.04	346.47	9,893.3	7,095.2	-1,239.8	327,086.20	544,503.20	32° 28' 32.973 N	102° 13' 16.651 W
16,479.0	90.28	345.96	9,894.7	7,187.4	-1,262.4	327,178.45	544,480.57	32° 28' 33.875 N	102° 13' 16.963 W
16,507.0	90.28	345.89	9,894.6	7,214.6	-1,269.2	327,205.61	544,473.76	32° 28' 34.141 N	102° 13' 17.057 W
16,602.0	91.34	345.64	9,893.2	7,306.7	-1,292.6	327,297.68	544,450.40	32° 28' 35.040 N	102° 13' 17.378 W
16,697.0	89.86	347.09	9,892.2	7,399.0	-1,315.0	327,389.99	544,428.01	32° 28' 35.943 N	102° 13' 17.687 W
16,791.0	88.35	348.74	9,893.7	7,490.9	-1,334.7	327,481.89	544,408.33	32° 28' 36.843 N	102° 13' 17.965 W
16,886.0	88.77	347.90	9,896.1	7,583.9	-1,353.9	327,574.89	544,389.11	32° 28' 37.754 N	102° 13' 18.238 W
16,981.0	89.63	348.82	9,897.4	7,676.9	-1,373.1	327,667.93	544,369.94	32° 28' 38.665 N	102° 13' 18.510 W
17,075.0	88.54	348.81	9,898.9	7,769.1	-1,391.3	327,760.13	544,351.71	32° 28' 39.568 N	102° 13' 18.771 W
17,170.0	89.35	349.50	9,900.7	7,862.4	-1,409.2	327,853.42	544,333.84	32° 28' 40.483 N	102° 13' 19.028 W
17,264.0	89.35	349.50	9,901.7	7,954.8	-1,426.3	327,945.84	544,316.71	32° 28' 41.389 N	102° 13' 19.277 W
17,358.0	88.23	349.37	9,903.7	8,047.2	-1,443.5	328,038.22	544,299.48	32° 28' 42.294 N	102° 13' 19.526 W
17,454.0	88.23	349.37	9,906.7	8,141.5	-1,461.2	328,132.53	544,281.78	32° 28' 43.219 N	102° 13' 19.782 W
17,548.0	88.26	347.87	9,909.6	8,233.6	-1,479.8	328,224.63	544,263.24	32° 28' 44.121 N	102° 13' 20.047 W
17,644.0	89.05	348.59	9,911.8	8,327.6	-1,499.3	328,318.59	544,243.66	32° 28' 45.041 N	102° 13' 20.324 W
17,739.0	87.70	345.79	9,914.5	8,420.2	-1,520.4	328,411.17	544,222.61	32° 28' 45.947 N	102° 13' 20.618 W
17,834.0	88.77	346.03	9,917.4	8,512.3	-1,543.5	328,503.27	544,199.50	32° 28' 46.847 N	102° 13' 20.936 W
17,929.0	89.21	345.90	9,919.1	8,604.4	-1,566.5	328,595.42	544,176.46	32° 28' 47.748 N	102° 13' 21.253 W
18,024.0	89.74	345.43	9,920.0	8,696.5	-1,590.1	328,687.46	544,152.94	32° 28' 48.647 N	102° 13' 21.576 W
18,119.0	90.42	345.55	9,919.9	8,788.4	-1,613.9	328,779.43	544,129.14	32° 28' 49.546 N	102° 13' 21.902 W
18,189.8	89.48	345.58	9,919.9	8,857.0	-1,631.5	328,848.04	544,111.48	32° 28' 50.216 N	102° 13' 22.143 W
9000VS (4) - 4007WA - 9000VS (3) - 4007WA - 9000VS - 4007WA - 9000VS (2) - 4007WA									
18,214.0	89.16	345.59	9,920.2	8,880.4	-1,637.5	328,871.43	544,105.47	32° 28' 50.445 N	102° 13' 22.226 W
18,310.0	90.42	345.88	9,920.6	8,973.5	-1,661.2	328,964.47	544,081.81	32° 28' 51.354 N	102° 13' 22.551 W
18,404.0	88.85	346.98	9,921.2	9,064.8	-1,683.2	329,055.84	544,059.76	32° 28' 52.248 N	102° 13' 22.856 W
18,499.0	90.05	347.84	9,922.1	9,157.5	-1,703.9	329,148.54	544,039.05	32° 28' 53.155 N	102° 13' 23.146 W
18,594.0	91.17	347.86	9,921.1	9,250.4	-1,723.9	329,241.41	544,019.06	32° 28' 54.064 N	102° 13' 23.428 W
18,689.0	89.52	348.89	9,920.5	9,343.5	-1,743.1	329,334.45	543,999.92	32° 28' 54.975 N	102° 13' 23.700 W
18,784.0	89.16	348.74	9,921.6	9,436.6	-1,761.5	329,427.64	543,981.49	32° 28' 55.888 N	102° 13' 23.964 W
18,878.0	90.58	348.41	9,921.8	9,528.8	-1,780.1	329,519.78	543,962.87	32° 28' 56.791 N	102° 13' 24.229 W





# Survey Report - Geographic



<b>Company:</b>	Diamondback Energy	<b>Local Co-ordinate Reference:</b>	Well UL Blk 6 DDU A 4007WA
<b>Project:</b>	Andrews County, Texas	<b>TVD Reference:</b>	RKB @ 2984.0usft (Cactus #170)
<b>Site:</b>	UL A-U181, Sec 40, Blk 6	<b>MD Reference:</b>	RKB @ 2984.0usft (Cactus #170)
<b>Well:</b>	UL Blk 6 DDU A 4007WA	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Surveys	<b>Database:</b>	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
18,973.0	89.77	348.26	9,921.5	9,621.8	-1,799.3	329,612.82	543,943.66	32° 28' 57.702 N	102° 13' 24.502 W
19,068.0	88.46	348.18	9,923.0	9,714.8	-1,818.7	329,705.80	543,924.27	32° 28' 58.613 N	102° 13' 24.777 W
19,164.0	88.46	348.18	9,925.5	9,808.7	-1,838.4	329,799.73	543,904.61	32° 28' 59.533 N	102° 13' 25.055 W
19,258.0	88.60	348.07	9,928.0	9,900.7	-1,857.7	329,891.69	543,885.28	32° 29' 0.433 N	102° 13' 25.329 W
19,354.0	89.24	348.10	9,929.8	9,994.6	-1,877.5	329,985.60	543,865.46	32° 29' 1.353 N	102° 13' 25.610 W
19,449.0	91.17	347.89	9,929.4	10,087.5	-1,897.3	330,078.52	543,845.70	32° 29' 2.263 N	102° 13' 25.889 W
19,543.0	91.17	347.89	9,927.5	10,179.4	-1,917.0	330,170.41	543,825.99	32° 29' 3.162 N	102° 13' 26.167 W
19,637.0	87.78	347.05	9,928.4	10,271.2	-1,937.4	330,262.15	543,805.60	32° 29' 4.060 N	102° 13' 26.453 W
19,732.0	87.78	347.05	9,932.0	10,363.7	-1,958.7	330,354.67	543,784.32	32° 29' 4.965 N	102° 13' 26.750 W
19,826.0	89.16	347.62	9,934.6	10,455.3	-1,979.3	330,446.35	543,763.72	32° 29' 5.862 N	102° 13' 27.038 W
19,920.0	90.53	348.00	9,934.8	10,547.2	-1,999.1	330,538.22	543,743.87	32° 29' 6.762 N	102° 13' 27.318 W
20,014.0	89.32	347.97	9,934.9	10,639.2	-2,018.7	330,630.16	543,724.31	32° 29' 7.662 N	102° 13' 27.594 W
20,109.0	89.32	347.97	9,936.1	10,732.1	-2,038.5	330,723.07	543,704.51	32° 29' 8.572 N	102° 13' 27.874 W
20,204.0	90.86	348.52	9,935.9	10,825.1	-2,057.8	330,816.07	543,685.15	32° 29' 9.482 N	102° 13' 28.148 W
20,299.0	89.97	347.13	9,935.2	10,917.9	-2,077.9	330,908.93	543,665.12	32° 29' 10.391 N	102° 13' 28.431 W
20,394.0	89.02	347.75	9,936.1	11,010.7	-2,098.5	331,001.65	543,644.46	32° 29' 11.299 N	102° 13' 28.720 W
20,489.0	89.27	347.79	9,937.5	11,103.5	-2,118.7	331,094.49	543,624.34	32° 29' 12.208 N	102° 13' 29.004 W
20,583.0	89.63	347.35	9,938.4	11,195.3	-2,138.9	331,186.28	543,604.11	32° 29' 13.106 N	102° 13' 29.288 W
20,679.0	90.72	346.95	9,938.1	11,288.9	-2,160.2	331,279.87	543,582.76	32° 29' 14.022 N	102° 13' 29.586 W
20,690.4	90.57	346.73	9,938.0	11,299.9	-2,162.8	331,290.93	543,580.17	32° 29' 14.130 N	102° 13' 29.622 W
11500VS (4) - 4007WA									
20,690.5	90.57	346.73	9,938.0	11,300.0	-2,162.9	331,291.03	543,580.15	32° 29' 14.131 N	102° 13' 29.622 W
11500VS (3) - 4007WA									
20,690.6	90.57	346.73	9,938.0	11,300.1	-2,162.9	331,291.13	543,580.13	32° 29' 14.132 N	102° 13' 29.623 W
11500VS (2) - 4007WA									
20,690.6	90.56	346.72	9,938.0	11,300.2	-2,162.9	331,291.18	543,580.11	32° 29' 14.133 N	102° 13' 29.623 W
11500VS - 4007WA									
20,773.0	89.44	345.11	9,938.0	11,380.1	-2,182.9	331,371.09	543,560.07	32° 29' 14.914 N	102° 13' 29.899 W
20,868.0	89.44	345.11	9,938.9	11,471.9	-2,207.3	331,462.89	543,535.66	32° 29' 15.810 N	102° 13' 30.232 W
20,963.0	90.95	344.08	9,938.6	11,563.5	-2,232.6	331,554.47	543,510.42	32° 29' 16.704 N	102° 13' 30.574 W
21,058.0	90.28	345.63	9,937.5	11,655.2	-2,257.4	331,646.17	543,485.60	32° 29' 17.600 N	102° 13' 30.912 W
21,153.0	90.58	346.92	9,936.8	11,747.5	-2,279.9	331,738.45	543,463.07	32° 29' 18.502 N	102° 13' 31.223 W
21,248.0	89.88	347.35	9,936.5	11,840.1	-2,301.1	331,831.06	543,441.91	32° 29' 19.408 N	102° 13' 31.518 W
21,343.0	89.88	347.35	9,936.6	11,932.8	-2,321.9	331,923.76	543,421.11	32° 29' 20.315 N	102° 13' 31.809 W
21,438.0	90.56	347.66	9,936.3	12,025.5	-2,342.4	332,016.50	543,400.56	32° 29' 21.223 N	102° 13' 32.098 W
21,533.0	90.95	346.47	9,935.0	12,118.1	-2,363.7	332,109.08	543,379.29	32° 29' 22.129 N	102° 13' 32.395 W
21,629.0	90.61	348.34	9,933.7	12,211.8	-2,384.6	332,202.76	543,358.36	32° 29' 23.046 N	102° 13' 32.688 W
21,723.0	88.96	347.14	9,934.1	12,303.6	-2,404.6	332,294.61	543,338.40	32° 29' 23.945 N	102° 13' 32.969 W
21,818.0	89.24	346.61	9,935.6	12,396.1	-2,426.2	332,387.12	543,316.83	32° 29' 24.850 N	102° 13' 33.269 W
21,913.0	89.46	349.11	9,936.6	12,489.0	-2,446.1	332,479.98	543,296.86	32° 29' 25.759 N	102° 13' 33.551 W
22,008.0	91.11	349.51	9,936.2	12,582.3	-2,463.8	332,573.33	543,279.24	32° 29' 26.674 N	102° 13' 33.805 W
22,103.0	89.74	349.42	9,935.5	12,675.7	-2,481.1	332,666.72	543,261.87	32° 29' 27.589 N	102° 13' 34.057 W
22,198.0	90.33	349.95	9,935.4	12,769.2	-2,498.1	332,760.18	543,244.86	32° 29' 28.506 N	102° 13' 34.304 W
22,293.0	90.61	348.54	9,934.6	12,862.5	-2,515.9	332,853.51	543,227.13	32° 29' 29.420 N	102° 13' 34.560 W
22,388.0	92.18	348.73	9,932.3	12,955.6	-2,534.6	332,946.62	543,208.42	32° 29' 30.333 N	102° 13' 34.827 W
22,483.0	91.37	349.43	9,929.4	13,048.9	-2,552.6	333,039.85	543,190.43	32° 29' 31.246 N	102° 13' 35.086 W
22,579.0	91.17	349.14	9,927.3	13,143.2	-2,570.4	333,134.15	543,172.58	32° 29' 32.171 N	102° 13' 35.344 W
22,674.0	90.78	348.24	9,925.6	13,236.3	-2,589.0	333,227.29	543,153.96	32° 29' 33.083 N	102° 13' 35.610 W
22,769.0	89.30	348.32	9,925.6	13,329.3	-2,608.3	333,320.31	543,134.66	32° 29' 33.994 N	102° 13' 35.884 W
22,864.0	90.11	349.68	9,926.1	13,422.6	-2,626.5	333,413.56	543,116.53	32° 29' 34.908 N	102° 13' 36.144 W
22,959.0	88.58	347.76	9,926.3	13,515.7	-2,645.1	333,506.72	543,097.95	32° 29' 35.820 N	102° 13' 36.410 W
23,054.0	88.40	346.33	9,928.0	13,608.3	-2,666.3	333,599.28	543,076.66	32° 29' 36.726 N	102° 13' 36.707 W
23,149.0	89.86	346.58	9,929.4	13,700.6	-2,688.6	333,691.63	543,054.41	32° 29' 37.629 N	102° 13' 37.015 W
23,244.0	90.56	346.48	9,929.1	13,793.0	-2,710.7	333,784.01	543,032.28	32° 29' 38.532 N	102° 13' 37.322 W



## Survey Report - Geographic



<b>Company:</b>	Diamondback Energy	<b>Local Co-ordinate Reference:</b>	Well UL Blk 6 DDU A 4007WA
<b>Project:</b>	Andrews County, Texas	<b>TVD Reference:</b>	RKB @ 2984.0usft (Cactus #170)
<b>Site:</b>	UL A-U181, Sec 40, Blk 6	<b>MD Reference:</b>	RKB @ 2984.0usft (Cactus #170)
<b>Well:</b>	UL Blk 6 DDU A 4007WA	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Surveys	<b>Database:</b>	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
23,339.0	92.26	347.40	9,926.7	13,885.5	-2,732.2	333,876.52	543,010.82	32° 29' 39.437 N	102° 13' 37.620 W
23,356.2	92.77	347.61	9,926.0	13,902.3	-2,735.9	333,893.30	543,007.11	32° 29' 39.602 N	102° 13' 37.673 W
LTP Crossed @ 23356.2'MD/9926.0'TVD									
23,375.0	93.33	347.84	9,925.0	13,920.6	-2,739.9	333,911.65	543,003.11	32° 29' 39.781 N	102° 13' 37.729 W
23,405.3	93.33	347.84	9,923.2	13,950.2	-2,746.3	333,941.19	542,996.75	32° 29' 40.071 N	102° 13' 37.819 W
Lateral Target Line - DDU A 4007WA - D#7 - PBHL - DDU A 4007WA - D#7									
23,405.7	93.33	347.84	9,923.2	13,950.6	-2,746.3	333,941.59	542,996.66	32° 29' 40.074 N	102° 13' 37.820 W
PBHL - DDU A 4007WA - D#6 - PBHL - DDU A 4007WA - D#4									
23,406.0	93.33	347.84	9,923.2	13,950.9	-2,746.4	333,941.87	542,996.60	32° 29' 40.077 N	102° 13' 37.821 W
PBHL - DDU A 4007WA - D#8									
23,406.1	93.33	347.84	9,923.2	13,951.0	-2,746.4	333,942.00	542,996.57	32° 29' 40.078 N	102° 13' 37.821 W
50' HLCrossed @ 23406.1'MD/9923.2'TVD - PBHL - DDU A 4007WA - D#5									
23,431.0	93.33	347.84	9,921.7	13,975.3	-2,751.7	333,966.30	542,991.34	32° 29' 40.316 N	102° 13' 37.895 W
TD @ 23431.0'MD/9921.7'TVD - LTP - DDU A 4007WA									

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,800.0	1,799.9	18.3	3.9	MWD Tie-in @ 1800.0' MD / 1799.9' TVD
10,157.2	9,820.2	1,010.8	63.5	80° Crossed @ 10157.2'MD/9820.2'TVD
10,248.0	9,830.5	1,099.0	45.1	Enter NPZ @ 10248.0'MD/9830.5'TVD
10,348.0	9,833.2	1,197.3	27.0	Exit NPZ @ 10348.0'MD/9833.2'TVD
23,356.2	9,926.0	13,902.3	-2,735.9	LTP Crossed @ 23356.2'MD/9926.0'TVD
23,406.1	9,923.2	13,951.0	-2,746.4	50' HLCrossed @ 23406.1'MD/9923.2'TVD
23,431.0	9,921.7	13,975.3	-2,751.7	TD @ 23431.0'MD/9921.7'TVD