



# Actual Wellpath Report

University 6-48D No. 104H AWP 144' - 19485' Projection: 19510'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	Pioneer Natural Resources	Well	University 6-48D No. 104H
Field	Andrews County, TX	API	42-003-48666-0000
Facility	University 6-48 Pad	Wellbore	University 6-48D No. 104H
Slot	University 6-48D No. 104H		

## REPORT SETUP INFORMATION

Projection System	NAD27 / Lambert Texas SP, Central Zone (4203), US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Florrol01
Scale	1.000191	Report Generated	1/17/2023 at 9:48:08 AM
Convergence at slot	1.00° West	Database	WellArchitectDB

## WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	13.40	58.49	1403673.50	1009251.50	32°25'37.8419"N	102°15'56.0359"W
Facility Reference Pt			1403615.00	1009238.10	32°25'37.6993"N	102°15'56.7155"W
Field Reference Pt			609601.22	0.00	29°35'29.3607"N	104°42'28.9819"W

## WELLPATH DATUM

Calculation method	Minimum curvature	Rig: Ensign 125 (KB) to Facility Vertical Datum	2993.00ft
Horizontal Reference Pt	Slot	Rig: Ensign 125 (KB) to Mean Sea Level	2993.00ft
Vertical Reference Pt	Rig: Ensign 125 (KB)	Rig: Ensign 125 (KB) to Ground Level at Slot (University 6-48D No. 104H)	25.00ft
MD Reference Pt	Rig: Ensign 125 (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	165.88°

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Field	Andrews County, TX	API	42-003-48666-0000
Facility	University 6-48 Pad	Wellbore	University 6-48D No. 104H
Slot	University 6-48D No. 104H		

## WELLPATH DATA (218 stations) † = interpolated, ‡ = extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
0.00†	0.000	358.800	0.00	0.00	0.00	0.00	1403673.50	1009251.50	32°25'37.8419"N	102°15'56.0359"W	0.00	
25.00	0.000	358.800	25.00	0.00	0.00	0.00	1403673.50	1009251.50	32°25'37.8419"N	102°15'56.0359"W	0.00	
144.00	0.200	358.800	144.00	-0.20	0.21	0.00	1403673.50	1009251.71	32°25'37.8439"N	102°15'56.0360"W	0.17	
229.00	0.200	64.700	229.00	-0.38	0.42	0.13	1403673.63	1009251.92	32°25'37.8460"N	102°15'56.0345"W	0.26	
311.00	0.200	262.100	311.00	-0.42	0.46	0.11	1403673.61	1009251.96	32°25'37.8464"N	102°15'56.0347"W	0.48	
402.00	0.500	285.700	402.00	-0.63	0.55	-0.43	1403673.07	1009252.05	32°25'37.8472"N	102°15'56.0410"W	0.36	
495.00	0.800	165.800	494.99	-0.19	0.03	-0.66	1403672.84	1009251.53	32°25'37.8420"N	102°15'56.0436"W	1.22	
589.00	0.900	161.400	588.98	1.21	-1.31	-0.26	1403673.24	1009250.19	32°25'37.8289"N	102°15'56.0387"W	0.13	
682.00	1.600	173.000	681.96	3.22	-3.29	0.13	1403673.63	1009248.21	32°25'37.8093"N	102°15'56.0337"W	0.80	
777.00	1.800	172.800	776.92	6.02	-6.09	0.48	1403673.98	1009245.41	32°25'37.7817"N	102°15'56.0291"W	0.21	
870.00	1.700	160.700	869.88	8.84	-8.84	1.12	1403674.62	1009242.66	32°25'37.7546"N	102°15'56.0211"W	0.41	
965.00	2.300	169.000	964.82	12.15	-12.04	1.95	1403675.45	1009239.46	32°25'37.7231"N	102°15'56.0108"W	0.70	
1059.00	2.800	167.400	1058.72	16.33	-16.13	2.81	1403676.31	1009235.37	32°25'37.6827"N	102°15'55.9999"W	0.54	
1151.00	2.700	173.500	1150.62	20.72	-20.48	3.54	1403677.05	1009231.02	32°25'37.6399"N	102°15'55.9904"W	0.34	
1245.00	2.500	173.000	1244.52	24.95	-24.71	4.04	1403677.55	1009226.78	32°25'37.5981"N	102°15'55.9837"W	0.21	
1340.00	2.500	177.900	1339.43	29.03	-28.84	4.37	1403677.87	1009222.66	32°25'37.5573"N	102°15'55.9791"W	0.22	
1435.00	2.500	173.200	1434.34	33.12	-32.97	4.69	1403678.20	1009218.53	32°25'37.5165"N	102°15'55.9745"W	0.22	
1529.00	2.400	166.300	1528.26	37.12	-36.91	5.40	1403678.90	1009214.58	32°25'37.4776"N	102°15'55.9654"W	0.33	
1624.00	2.100	162.600	1623.18	40.84	-40.51	6.39	1403679.90	1009210.98	32°25'37.4422"N	102°15'55.9531"W	0.35	
1717.00	2.300	154.900	1716.11	44.38	-43.82	7.70	1403681.20	1009207.67	32°25'37.4096"N	102°15'55.9373"W	0.38	
1811.00	1.700	156.500	1810.06	47.60	-46.81	9.05	1403682.55	1009204.68	32°25'37.3803"N	102°15'55.9209"W	0.64	
1906.00	1.100	169.100	1905.03	49.91	-49.00	9.79	1403683.29	1009202.49	32°25'37.3588"N	102°15'55.9119"W	0.71	
1944.00	1.300	164.200	1943.02	50.70	-49.77	9.97	1403683.47	1009201.72	32°25'37.3512"N	102°15'55.9095"W	0.59	Imported MWD Surveys 144' - 1944' (Corrected for Rig Height)
2045.00	0.450	172.740	2044.01	52.24	-51.27	10.34	1403683.84	1009200.22	32°25'37.3364"N	102°15'55.9050"W	0.85	
2135.00	0.930	178.000	2134.00	53.30	-52.35	10.41	1403683.91	1009199.14	32°25'37.3257"N	102°15'55.9040"W	0.54	
2225.00	2.260	177.000	2223.96	55.76	-54.85	10.52	1403684.03	1009196.64	32°25'37.3010"N	102°15'55.9021"W	1.48	
2315.00	2.940	170.050	2313.87	59.80	-58.90	11.02	1403684.52	1009192.59	32°25'37.2611"N	102°15'55.8955"W	0.83	
2406.00	5.030	170.050	2404.65	66.11	-65.12	12.11	1403685.61	1009186.36	32°25'37.1996"N	102°15'55.8815"W	2.30	
2496.00	7.080	174.950	2494.14	75.52	-74.54	13.28	1403686.78	1009176.95	32°25'37.1067"N	102°15'55.8660"W	2.35	
2587.00	7.220	175.970	2584.43	86.69	-85.83	14.17	1403687.68	1009165.66	32°25'36.9952"N	102°15'55.8532"W	0.21	

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Slot	University 6-48D No. 104H		

**WELLPATH DATA (218 stations)**

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
2677.00	7.020	175.860	2673.74	97.68	-96.95	14.97	1403688.47	1009154.53	32°25'36.8852"N	102°15'55.8417"W	0.22	
2767.00	6.100	173.740	2763.15	107.83	-107.19	15.89	1403689.39	1009144.29	32°25'36.7841"N	102°15'55.8289"W	1.06	
2857.00	4.820	159.150	2852.74	116.32	-115.48	17.75	1403691.26	1009136.00	32°25'36.7024"N	102°15'55.8054"W	2.09	
2948.00	3.060	132.040	2943.53	122.14	-120.68	20.92	1403694.42	1009130.80	32°25'36.6515"N	102°15'55.7675"W	2.77	
3039.00	2.320	123.420	3034.43	125.51	-123.32	24.26	1403697.76	1009128.16	32°25'36.6259"N	102°15'55.7280"W	0.92	
3129.00	0.760	143.420	3124.39	127.41	-124.80	26.14	1403699.64	1009126.67	32°25'36.6116"N	102°15'55.7058"W	1.81	
3219.00	0.190	109.440	3214.39	128.04	-125.33	26.63	1403700.14	1009126.14	32°25'36.6064"N	102°15'55.6999"W	0.68	
3310.00	0.370	137.970	3305.39	128.39	-125.60	26.97	1403700.48	1009125.87	32°25'36.6038"N	102°15'55.6959"W	0.24	
3400.00	0.480	139.500	3395.39	128.98	-126.10	27.41	1403700.92	1009125.37	32°25'36.5989"N	102°15'55.6906"W	0.12	
3490.00	0.570	133.480	3485.38	129.70	-126.70	27.98	1403701.49	1009124.78	32°25'36.5932"N	102°15'55.6839"W	0.12	
3581.00	0.440	130.800	3576.38	130.36	-127.24	28.57	1403702.08	1009124.24	32°25'36.5879"N	102°15'55.6768"W	0.15	
3671.00	0.420	111.050	3666.38	130.84	-127.58	29.14	1403702.65	1009123.89	32°25'36.5846"N	102°15'55.6701"W	0.17	
3762.00	0.760	319.290	3757.38	130.49	-127.25	29.06	1403702.57	1009124.23	32°25'36.5879"N	102°15'55.6712"W	1.26	
3852.00	1.350	315.770	3847.36	129.04	-126.03	27.93	1403701.44	1009125.44	32°25'36.5997"N	102°15'55.6846"W	0.66	
3943.00	1.070	320.960	3938.34	127.34	-124.60	26.65	1403700.15	1009126.87	32°25'36.6136"N	102°15'55.6998"W	0.33	
4033.00	0.930	311.740	4028.33	125.97	-123.47	25.58	1403699.08	1009128.01	32°25'36.6247"N	102°15'55.7126"W	0.24	
4123.00	0.810	312.560	4118.32	124.84	-122.55	24.56	1403698.07	1009128.93	32°25'36.6336"N	102°15'55.7246"W	0.13	
4213.00	0.540	313.270	4208.31	123.95	-121.83	23.78	1403697.29	1009129.65	32°25'36.6406"N	102°15'55.7338"W	0.30	
4304.00	0.480	328.880	4299.31	123.22	-121.21	23.27	1403696.78	1009130.27	32°25'36.6467"N	102°15'55.7399"W	0.17	
4394.00	0.410	312.990	4389.30	122.59	-120.67	22.84	1403696.35	1009130.81	32°25'36.6520"N	102°15'55.7450"W	0.16	
4484.00	0.370	344.000	4479.30	122.03	-120.17	22.53	1403696.03	1009131.31	32°25'36.6568"N	102°15'55.7488"W	0.24	
4575.00	0.330	314.210	4570.30	121.52	-119.70	22.26	1403695.76	1009131.78	32°25'36.6614"N	102°15'55.7520"W	0.20	
4665.00	0.190	298.540	4660.30	121.19	-119.45	21.94	1403695.45	1009132.03	32°25'36.6638"N	102°15'55.7558"W	0.17	
4755.00	0.290	323.140	4750.30	120.88	-119.20	21.68	1403695.18	1009132.28	32°25'36.6663"N	102°15'55.7589"W	0.16	
4846.00	0.330	312.410	4841.30	120.45	-118.84	21.34	1403694.85	1009132.64	32°25'36.6698"N	102°15'55.7629"W	0.08	
4936.00	0.160	268.320	4931.30	120.21	-118.66	21.03	1403694.53	1009132.81	32°25'36.6714"N	102°15'55.7666"W	0.27	
5026.00	0.220	279.920	5021.30	120.11	-118.64	20.73	1403694.23	1009132.84	32°25'36.6717"N	102°15'55.7701"W	0.08	
5116.00	0.190	274.520	5111.29	119.99	-118.60	20.41	1403693.92	1009132.88	32°25'36.6720"N	102°15'55.7738"W	0.04	
5207.00	0.200	166.140	5202.29	120.10	-118.74	20.30	1403693.80	1009132.74	32°25'36.6706"N	102°15'55.7751"W	0.35	
5297.00	0.280	175.380	5292.29	120.48	-119.11	20.35	1403693.86	1009132.37	32°25'36.6669"N	102°15'55.7744"W	0.10	

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University 6-48D No. 104H AWP 144' - 19485' Projection: 19510'  
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Operator	Pioneer Natural Resources	Well	University 6-48D No. 104H
Field	Andrews County, TX	API	42-003-48666-0000
Facility	University 6-48 Pad	Wellbore	University 6-48D No. 104H
Slot	University 6-48D No. 104H		

## WELLPATH DATA (218 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
5387.00	0.090	172.760	5382.29	120.76	-119.40	20.38	1403693.89	1009132.08	32°25'36.6641"N	102°15'55.7740"W	0.21	
5478.00	0.160	182.340	5473.29	120.96	-119.60	20.39	1403693.89	1009131.88	32°25'36.6621"N	102°15'55.7739"W	0.08	
5568.00	0.120	90.170	5563.29	121.10	-119.72	20.47	1403693.98	1009131.75	32°25'36.6609"N	102°15'55.7728"W	0.23	
5659.00	0.370	101.250	5654.29	121.25	-119.78	20.86	1403694.36	1009131.70	32°25'36.6604"N	102°15'55.7684"W	0.28	
5749.00	0.400	117.450	5744.29	121.58	-119.98	21.42	1403694.93	1009131.49	32°25'36.6585"N	102°15'55.7617"W	0.12	
5840.00	0.380	99.320	5835.29	121.91	-120.18	22.00	1403695.51	1009131.30	32°25'36.6566"N	102°15'55.7549"W	0.14	
5930.00	0.370	77.320	5925.29	122.04	-120.16	22.58	1403696.08	1009131.31	32°25'36.6569"N	102°15'55.7482"W	0.16	
6021.00	0.370	114.090	6016.28	122.23	-120.22	23.13	1403696.64	1009131.26	32°25'36.6564"N	102°15'55.7417"W	0.26	
6111.00	0.310	69.870	6106.28	122.38	-120.25	23.63	1403697.13	1009131.22	32°25'36.6562"N	102°15'55.7360"W	0.29	
6201.00	0.220	57.770	6196.28	122.30	-120.08	24.00	1403697.51	1009131.40	32°25'36.6580"N	102°15'55.7316"W	0.12	
6292.00	0.310	74.750	6287.28	122.25	-119.92	24.39	1403697.89	1009131.56	32°25'36.6596"N	102°15'55.7272"W	0.13	
6382.00	0.220	74.310	6377.28	122.24	-119.81	24.79	1403698.29	1009131.67	32°25'36.6608"N	102°15'55.7225"W	0.10	
6472.00	0.280	57.080	6467.28	122.16	-119.64	25.14	1403698.65	1009131.84	32°25'36.6625"N	102°15'55.7184"W	0.11	
6563.00	0.290	60.860	6558.28	122.03	-119.41	25.53	1403699.03	1009132.07	32°25'36.6649"N	102°15'55.7140"W	0.02	
6653.00	0.310	51.500	6648.28	121.87	-119.15	25.92	1403699.42	1009132.33	32°25'36.6675"N	102°15'55.7095"W	0.06	
6744.00	0.380	52.560	6739.27	121.65	-118.81	26.35	1403699.86	1009132.67	32°25'36.6709"N	102°15'55.7045"W	0.08	
6802.00	0.350	69.650	6797.27	121.55	-118.63	26.67	1403700.17	1009132.85	32°25'36.6727"N	102°15'55.7008"W	0.19	12 1/4" BKR MWD Surveys 2045' - 6802'
6962.00	0.170	325.080	6957.27	121.28	-118.27	26.99	1403700.50	1009133.21	32°25'36.6764"N	102°15'55.6971"W	0.27	
7052.00	0.030	93.320	7047.27	121.16	-118.16	26.94	1403700.44	1009133.32	32°25'36.6775"N	102°15'55.6978"W	0.21	
7142.00	0.040	32.810	7137.27	121.15	-118.13	26.98	1403700.48	1009133.34	32°25'36.6777"N	102°15'55.6973"W	0.04	
7232.00	0.110	145.730	7227.27	121.21	-118.18	27.04	1403700.55	1009133.30	32°25'36.6773"N	102°15'55.6965"W	0.15	
7323.00	0.170	127.580	7318.27	121.39	-118.33	27.20	1403700.71	1009133.14	32°25'36.6758"N	102°15'55.6947"W	0.08	
7413.00	0.040	153.100	7408.27	121.53	-118.44	27.32	1403700.83	1009133.04	32°25'36.6747"N	102°15'55.6933"W	0.15	
7503.00	0.190	41.450	7498.27	121.48	-118.36	27.43	1403700.94	1009133.12	32°25'36.6756"N	102°15'55.6920"W	0.23	
7594.00	0.060	10.280	7589.27	121.35	-118.20	27.54	1403701.05	1009133.28	32°25'36.6772"N	102°15'55.6907"W	0.16	
7684.00	0.030	155.990	7679.27	121.33	-118.17	27.56	1403701.07	1009133.30	32°25'36.6774"N	102°15'55.6905"W	0.10	
7774.00	0.150	108.580	7769.27	121.41	-118.23	27.68	1403701.19	1009133.24	32°25'36.6769"N	102°15'55.6891"W	0.15	
7865.00	0.120	31.580	7860.27	121.41	-118.19	27.84	1403701.35	1009133.29	32°25'36.6773"N	102°15'55.6872"W	0.19	
7955.00	0.610	21.730	7950.27	120.96	-117.66	28.07	1403701.58	1009133.81	32°25'36.6825"N	102°15'55.6847"W	0.55	
8045.00	0.620	192.360	8040.27	121.00	-117.69	28.14	1403701.65	1009133.78	32°25'36.6823"N	102°15'55.6838"W	1.36	



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University 6-48D No. 104H AWP 144' - 19485' Projection: 19510'

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Operator	Pioneer Natural Resources	Well	University 6-48D No. 104H
Field	Andrews County, TX	API	42-003-48666-0000
Facility	University 6-48 Pad	Wellbore	University 6-48D No. 104H
Slot	University 6-48D No. 104H		

## WELLPATH DATA (218 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
8136.00	0.480	262.320	8131.26	121.40	-118.23	27.66	1403701.17	1009133.25	32°25'36.6769"N	102°15'55.6893"W	0.70	
8226.00	0.410	265.590	8221.26	121.31	-118.30	26.97	1403700.47	1009133.18	32°25'36.6761"N	102°15'55.6974"W	0.08	
8317.00	0.090	172.560	8312.26	121.32	-118.40	26.65	1403700.16	1009133.08	32°25'36.6750"N	102°15'55.7011"W	0.47	
8407.00	9.760	181.920	8401.82	128.74	-126.11	26.40	1403699.91	1009125.37	32°25'36.5987"N	102°15'55.7024"W	10.75	
8498.00	20.300	194.880	8489.61	150.03	-149.15	22.08	1403695.58	1009102.33	32°25'36.3700"N	102°15'55.7482"W	12.09	
8588.00	29.010	175.970	8571.45	185.29	-186.13	19.59	1403693.10	1009065.33	32°25'36.0037"N	102°15'55.7697"W	12.95	
8678.00	34.430	161.810	8648.08	232.25	-232.17	29.09	1403702.60	1009019.28	32°25'35.5498"N	102°15'55.6496"W	10.20	
8769.00	43.820	162.860	8718.60	289.50	-286.84	46.45	1403719.95	1008964.61	32°25'35.0120"N	102°15'55.4361"W	10.34	
8859.00	49.480	168.660	8780.38	354.87	-350.23	62.37	1403735.89	1008901.20	32°25'34.3875"N	102°15'55.2374"W	7.84	
8950.00	58.210	163.190	8834.05	428.23	-421.34	80.40	1403753.92	1008830.08	32°25'33.6871"N	102°15'55.0127"W	10.75	
9040.00	67.780	162.350	8874.87	508.20	-497.83	104.15	1403777.67	1008753.57	32°25'32.9344"N	102°15'54.7202"W	10.67	
9131.00	76.300	165.390	8902.91	594.62	-580.92	128.12	1403801.65	1008670.47	32°25'32.1165"N	102°15'54.4237"W	9.89	
9221.00	84.620	168.010	8917.81	683.28	-667.21	148.50	1403822.02	1008584.16	32°25'31.2662"N	102°15'54.1686"W	9.68	
9312.00	89.770	163.060	8922.27	774.11	-755.16	171.19	1403844.73	1008496.19	32°25'30.3999"N	102°15'53.8860"W	7.84	
9402.00	87.980	166.160	8924.03	864.06	-841.91	195.07	1403868.61	1008409.43	32°25'29.5458"N	102°15'53.5900"W	3.98	
9492.00	89.430	165.280	8926.07	954.03	-929.10	217.26	1403890.81	1008322.22	32°25'28.6870"N	102°15'53.3134"W	1.88	
9583.00	89.860	167.090	8926.63	1045.02	-1017.46	238.99	1403912.54	1008233.85	32°25'27.8165"N	102°15'53.0421"W	2.04	
9673.00	89.580	165.610	8927.07	1135.02	-1104.92	260.23	1403933.78	1008146.37	32°25'26.9549"N	102°15'52.7766"W	1.67	
9763.00	89.060	166.000	8928.14	1225.01	-1192.16	282.30	1403955.85	1008059.11	32°25'26.0955"N	102°15'52.5016"W	0.72	
9854.00	89.090	165.380	8929.61	1316.00	-1280.33	304.79	1403978.35	1007970.93	32°25'25.2271"N	102°15'52.2214"W	0.68	
9944.00	88.900	166.320	8931.19	1405.98	-1367.58	326.79	1404000.35	1007883.66	32°25'24.3676"N	102°15'51.9471"W	1.07	
10035.00	89.000	166.100	8932.85	1496.97	-1455.94	348.47	1404022.04	1007795.28	32°25'23.4971"N	102°15'51.6763"W	0.27	
10125.00	89.490	165.820	8934.04	1586.96	-1543.25	370.31	1404043.88	1007707.96	32°25'22.6371"N	102°15'51.4039"W	0.63	
10215.00	90.040	164.880	8934.41	1676.95	-1630.32	393.07	1404066.64	1007620.87	32°25'21.7796"N	102°15'51.1208"W	1.21	
10306.00	92.040	165.360	8932.76	1767.92	-1718.25	416.43	1404090.01	1007532.93	32°25'20.9136"N	102°15'50.8305"W	2.26	
10396.00	89.830	165.080	8931.29	1857.90	-1805.25	439.39	1404112.97	1007445.91	32°25'20.0568"N	102°15'50.5451"W	2.48	
10486.00	89.670	164.530	8931.68	1947.88	-1892.10	462.98	1404136.56	1007359.04	32°25'19.2015"N	102°15'50.2524"W	0.64	
10577.00	89.520	163.670	8932.32	2038.84	-1979.62	487.90	1404161.50	1007271.50	32°25'18.3400"N	102°15'49.9439"W	0.96	
10667.00	88.380	165.610	8933.97	2128.79	-2066.39	511.74	1404185.34	1007184.72	32°25'17.4856"N	102°15'49.6483"W	2.50	
10758.00	90.350	163.870	8934.98	2219.76	-2154.16	535.69	1404209.29	1007096.93	32°25'16.6213"N	102°15'49.3512"W	2.89	

## REFERENCE WELLPATH IDENTIFICATION

Operator	Pioneer Natural Resources	Well	University 6-48D No. 104H
Field	Andrews County, TX	API	42-003-48666-0000
Facility	University 6-48 Pad	Wellbore	University 6-48D No. 104H
Slot	University 6-48D No. 104H		

## WELLPATH DATA (218 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
10848.00	90.130	167.000	8934.61	2309.75	-2241.26	558.32	1404231.92	1007009.82	32°25'15.7635"N	102°15'49.0697"W	3.49	
10938.00	88.530	162.720	8935.66	2399.70	-2328.11	581.81	1404255.42	1006922.95	32°25'14.9083"N	102°15'48.7780"W	5.08	
11029.00	90.130	165.450	8936.72	2490.64	-2415.60	606.76	1404280.38	1006835.44	32°25'14.0469"N	102°15'48.4693"W	3.48	
11119.00	88.960	163.700	8937.44	2580.61	-2502.35	630.70	1404304.32	1006748.67	32°25'13.1927"N	102°15'48.1726"W	2.34	
11210.00	88.660	169.440	8939.33	2671.55	-2590.81	651.82	1404325.44	1006660.20	32°25'12.3212"N	102°15'47.9083"W	6.31	
11300.00	89.550	168.140	8940.73	2761.42	-2679.08	669.31	1404342.94	1006571.92	32°25'11.4509"N	102°15'47.6864"W	1.75	
11390.00	90.320	169.390	8940.84	2851.30	-2767.35	686.85	1404360.48	1006483.63	32°25'10.5806"N	102°15'47.4640"W	1.63	
11480.00	89.640	167.850	8940.87	2941.19	-2855.58	704.61	1404378.24	1006395.38	32°25'9.7107"N	102°15'47.2390"W	1.87	
11571.00	89.360	166.460	8941.66	3032.16	-2944.29	724.84	1404398.47	1006306.65	32°25'8.8365"N	102°15'46.9851"W	1.56	
11661.00	89.640	165.730	8942.45	3122.16	-3031.65	746.46	1404420.10	1006219.27	32°25'7.9759"N	102°15'46.7152"W	0.87	
11752.00	88.190	165.460	8944.17	3213.14	-3119.77	769.10	1404442.74	1006131.14	32°25'7.1079"N	102°15'46.4334"W	1.62	
11842.00	89.640	166.450	8945.88	3303.12	-3207.06	790.93	1404464.58	1006043.83	32°25'6.2480"N	102°15'46.1610"W	1.95	
11933.00	89.730	165.890	8946.38	3394.12	-3295.42	812.69	1404486.34	1005955.45	32°25'5.3776"N	102°15'45.8894"W	0.62	
12023.00	89.700	166.050	8946.82	3484.12	-3382.74	834.50	1404508.16	1005868.12	32°25'4.5174"N	102°15'45.6173"W	0.18	
12114.00	90.070	165.070	8947.01	3575.11	-3470.86	857.20	1404530.86	1005779.98	32°25'3.6495"N	102°15'45.3348"W	1.15	
12203.00	88.720	164.630	8947.95	3664.09	-3556.76	880.45	1404554.12	1005694.06	32°25'2.8036"N	102°15'45.0461"W	1.60	
12294.00	89.210	164.860	8949.59	3755.06	-3644.54	904.39	1404578.06	1005606.27	32°25'1.9392"N	102°15'44.7492"W	0.59	
12384.00	89.520	164.460	8950.59	3845.03	-3731.33	928.20	1404601.88	1005519.46	32°25'1.0847"N	102°15'44.4539"W	0.56	
12475.00	88.660	165.960	8952.03	3936.01	-3819.30	951.43	1404625.11	1005431.48	32°25'0.2183"N	102°15'44.1652"W	1.90	
12565.00	89.800	166.060	8953.24	4026.00	-3906.62	973.18	1404646.87	1005344.14	32°24'59.3581"N	102°15'43.8938"W	1.27	
12656.00	89.000	166.180	8954.19	4116.99	-3994.96	995.01	1404668.70	1005255.79	32°24'58.4879"N	102°15'43.6214"W	0.89	
12746.00	89.300	166.080	8955.53	4206.98	-4082.32	1016.58	1404690.28	1005168.40	32°24'57.6272"N	102°15'43.3521"W	0.35	
12836.00	88.470	166.130	8957.28	4296.97	-4169.67	1038.19	1404711.89	1005081.04	32°24'56.7667"N	102°15'43.0824"W	0.92	
12927.00	89.090	166.230	8959.22	4387.94	-4258.02	1059.92	1404733.63	1004992.68	32°24'55.8964"N	102°15'42.8111"W	0.69	
13017.00	88.560	165.820	8961.06	4477.92	-4345.34	1081.66	1404755.36	1004905.34	32°24'55.0362"N	102°15'42.5400"W	0.74	
13107.00	89.670	165.830	8962.45	4567.91	-4432.58	1103.69	1404777.40	1004818.08	32°24'54.1768"N	102°15'42.2653"W	1.23	
13198.00	90.410	166.290	8962.39	4658.91	-4520.90	1125.61	1404799.33	1004729.74	32°24'53.3067"N	102°15'41.9918"W	0.96	
13288.00	89.120	165.970	8962.76	4748.91	-4608.28	1147.19	1404820.91	1004642.35	32°24'52.4460"N	102°15'41.7225"W	1.48	
13379.00	89.360	166.320	8963.97	4839.90	-4696.62	1168.98	1404842.70	1004553.99	32°24'51.5757"N	102°15'41.4505"W	0.47	
13469.00	89.640	166.280	8964.75	4929.89	-4784.06	1190.29	1404864.02	1004466.54	32°24'50.7142"N	102°15'41.1842"W	0.31	



# Actual Wellpath Report

University 6-48D No. 104H AWP 144' - 19485' Projection: 19510'  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	Pioneer Natural Resources	Well	University 6-48D No. 104H
Field	Andrews County, TX	API	42-003-48666-0000
Facility	University 6-48 Pad	Wellbore	University 6-48D No. 104H
Slot	University 6-48D No. 104H		

## WELLPATH DATA (218 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
13560.00	89.610	165.800	8965.35	5020.89	-4872.37	1212.24	1404885.97	1004378.21	32°24'49.8443"N	102°15'40.9103"W	0.53	
13650.00	89.430	166.240	8966.10	5110.88	-4959.70	1233.99	1404907.72	1004290.86	32°24'48.9840"N	102°15'40.6391"W	0.53	
13741.00	89.700	166.050	8966.79	5201.88	-5048.05	1255.78	1404929.51	1004202.50	32°24'48.1136"N	102°15'40.3671"W	0.36	
13831.00	89.980	165.830	8967.04	5291.88	-5135.35	1277.64	1404951.38	1004115.18	32°24'47.2536"N	102°15'40.0945"W	0.40	
13921.00	90.040	165.790	8967.03	5381.88	-5222.60	1299.70	1404973.45	1004027.91	32°24'46.3941"N	102°15'39.8195"W	0.08	
14012.00	89.770	166.050	8967.18	5472.88	-5310.87	1321.84	1404995.59	1003939.62	32°24'45.5246"N	102°15'39.5435"W	0.41	
14102.00	90.290	165.720	8967.13	5562.88	-5398.15	1343.79	1405017.54	1003852.33	32°24'44.6649"N	102°15'39.2698"W	0.68	
14193.00	89.980	166.160	8966.92	5653.88	-5486.43	1365.90	1405039.66	1003764.04	32°24'43.7953"N	102°15'38.9942"W	0.59	
14283.00	90.130	166.010	8966.83	5743.88	-5573.78	1387.54	1405061.30	1003676.66	32°24'42.9347"N	102°15'38.7241"W	0.24	
14374.00	89.460	166.240	8967.16	5834.88	-5662.13	1409.36	1405083.13	1003588.30	32°24'42.0644"N	102°15'38.4517"W	0.78	
14464.00	90.100	165.920	8967.50	5924.87	-5749.48	1431.01	1405104.78	1003500.93	32°24'41.2038"N	102°15'38.1816"W	0.80	
14554.00	90.440	165.700	8967.08	6014.87	-5836.74	1453.08	1405126.85	1003413.66	32°24'40.3444"N	102°15'37.9066"W	0.45	
14645.00	90.810	165.490	8966.09	6105.87	-5924.87	1475.71	1405149.49	1003325.51	32°24'39.4763"N	102°15'37.6248"W	0.47	
14735.00	90.470	165.930	8965.08	6195.86	-6012.08	1497.93	1405171.71	1003238.28	32°24'38.6172"N	102°15'37.3481"W	0.62	
14826.00	89.550	165.720	8965.06	6286.86	-6100.31	1520.21	1405194.00	1003150.04	32°24'37.7482"N	102°15'37.0704"W	1.04	
14916.00	89.770	165.650	8965.60	6376.86	-6187.51	1542.46	1405216.25	1003062.82	32°24'36.8892"N	102°15'36.7933"W	0.26	
15006.00	89.330	165.440	8966.31	6466.85	-6274.66	1564.93	1405238.72	1002975.65	32°24'36.0308"N	102°15'36.5137"W	0.54	
15097.00	89.890	165.450	8966.92	6557.85	-6362.74	1587.80	1405261.60	1002887.56	32°24'35.1633"N	102°15'36.2292"W	0.62	
15187.00	90.040	165.770	8966.98	6647.85	-6449.91	1610.16	1405283.97	1002800.37	32°24'34.3047"N	102°15'35.9507"W	0.39	
15277.00	89.300	165.320	8967.50	6737.84	-6537.06	1632.63	1405306.44	1002713.20	32°24'33.4463"N	102°15'35.6711"W	0.96	
15368.00	89.800	165.650	8968.21	6828.84	-6625.15	1655.43	1405329.25	1002625.09	32°24'32.5786"N	102°15'35.3873"W	0.66	
15458.00	89.430	165.090	8968.82	6918.83	-6712.23	1678.17	1405351.98	1002537.99	32°24'31.7210"N	102°15'35.1046"W	0.75	
15548.00	89.800	165.670	8969.42	7008.82	-6799.32	1700.88	1405374.70	1002450.90	32°24'30.8633"N	102°15'34.8221"W	0.76	
15639.00	90.260	166.100	8969.37	7099.82	-6887.57	1723.07	1405396.90	1002362.63	32°24'29.9939"N	102°15'34.5455"W	0.69	
15729.00	89.700	165.560	8969.41	7189.82	-6974.83	1745.11	1405418.94	1002275.35	32°24'29.1344"N	102°15'34.2709"W	0.86	
15820.00	89.980	165.430	8969.66	7280.82	-7062.93	1767.90	1405441.73	1002187.23	32°24'28.2666"N	102°15'33.9873"W	0.34	
15910.00	91.000	166.150	8968.89	7370.82	-7150.17	1789.99	1405463.83	1002099.98	32°24'27.4073"N	102°15'33.7121"W	1.39	
16001.00	91.430	165.570	8966.96	7461.79	-7238.39	1812.21	1405486.06	1002011.74	32°24'26.5382"N	102°15'33.4351"W	0.79	
16091.00	91.460	166.200	8964.69	7551.77	-7325.65	1834.16	1405508.00	1001924.46	32°24'25.6787"N	102°15'33.1616"W	0.70	
16181.00	90.410	165.860	8963.22	7641.75	-7412.97	1855.88	1405529.73	1001837.12	32°24'24.8185"N	102°15'32.8906"W	1.23	



# Actual Wellpath Report

University 6-48D No. 104H AWP 144' - 19485' Projection: 19510'  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	Pioneer Natural Resources	Well	University 6-48D No. 104H
Field	Andrews County, TX	API	42-003-48666-0000
Facility	University 6-48 Pad	Wellbore	University 6-48D No. 104H
Slot	University 6-48D No. 104H		

## WELLPATH DATA (218 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
16272.00	89.550	165.560	8963.25	7732.75	-7501.16	1878.34	1405552.20	1001748.92	32°24'23.9499"N	102°15'32.6108"W	1.00	
16362.00	89.770	165.610	8963.79	7822.75	-7588.32	1900.75	1405574.61	1001661.74	32°24'23.0913"N	102°15'32.3319"W	0.25	
16453.00	89.950	165.520	8964.01	7913.75	-7676.45	1923.43	1405597.29	1001573.60	32°24'22.2233"N	102°15'32.0496"W	0.22	
16543.00	90.200	166.150	8963.89	8003.75	-7763.71	1945.45	1405619.32	1001486.32	32°24'21.3637"N	102°15'31.7751"W	0.75	
16633.00	90.690	165.740	8963.19	8093.74	-7851.01	1967.31	1405641.18	1001399.00	32°24'20.5037"N	102°15'31.5026"W	0.71	
16724.00	90.290	165.310	8962.42	8184.74	-7939.12	1990.06	1405663.93	1001310.88	32°24'19.6359"N	102°15'31.2196"W	0.65	
16814.00	89.860	165.770	8962.30	8274.73	-8026.27	2012.53	1405686.41	1001223.71	32°24'18.7775"N	102°15'30.9399"W	0.70	
16904.00	89.890	165.580	8962.49	8364.73	-8113.47	2034.80	1405708.68	1001136.49	32°24'17.9185"N	102°15'30.6626"W	0.21	
16995.00	90.320	165.730	8962.33	8455.73	-8201.63	2057.34	1405731.23	1001048.31	32°24'17.0501"N	102°15'30.3819"W	0.50	
17085.00	89.460	165.460	8962.50	8545.73	-8288.80	2079.73	1405753.63	1000961.13	32°24'16.1915"N	102°15'30.1032"W	1.00	
17175.00	90.410	165.520	8962.60	8635.73	-8375.93	2102.28	1405776.18	1000873.98	32°24'15.3334"N	102°15'29.8226"W	1.06	
17265.00	89.520	165.560	8962.66	8725.72	-8463.08	2124.75	1405798.66	1000786.82	32°24'14.4750"N	102°15'29.5430"W	0.99	
17356.00	91.180	166.180	8962.10	8816.72	-8551.32	2146.97	1405820.88	1000698.56	32°24'13.6057"N	102°15'29.2661"W	1.95	
17446.00	90.380	165.720	8960.88	8906.71	-8638.62	2168.82	1405842.73	1000611.24	32°24'12.7458"N	102°15'28.9937"W	1.03	
17536.00	89.800	165.770	8960.74	8996.71	-8725.85	2190.98	1405864.89	1000524.00	32°24'11.8865"N	102°15'28.7177"W	0.65	
17626.00	89.860	165.430	8961.00	9086.71	-8813.02	2213.36	1405887.28	1000436.81	32°24'11.0279"N	102°15'28.4391"W	0.38	
17716.00	89.950	165.470	8961.15	9176.70	-8900.13	2235.97	1405909.89	1000349.68	32°24'10.1699"N	102°15'28.1578"W	0.11	
17806.00	90.170	165.970	8961.06	9266.70	-8987.35	2258.17	1405932.10	1000262.45	32°24'9.3108"N	102°15'27.8813"W	0.61	
17897.00	90.170	165.910	8960.79	9357.70	-9075.62	2280.28	1405954.21	1000174.16	32°24'8.4412"N	102°15'27.6057"W	0.07	
17987.00	90.690	165.860	8960.11	9447.70	-9162.90	2302.22	1405976.16	1000086.86	32°24'7.5814"N	102°15'27.3322"W	0.58	
18077.00	90.200	165.590	8959.41	9537.70	-9250.12	2324.41	1405998.35	999999.62	32°24'6.7223"N	102°15'27.0558"W	0.62	
18168.00	90.570	165.710	8958.80	9628.69	-9338.28	2346.97	1406020.91	999911.45	32°24'5.8539"N	102°15'26.7750"W	0.43	
18258.00	90.040	165.760	8958.32	9718.69	-9425.51	2369.14	1406043.09	999824.21	32°24'4.9948"N	102°15'26.4988"W	0.59	
18348.00	89.300	165.610	8958.84	9808.69	-9512.71	2391.40	1406065.35	999736.99	32°24'4.1358"N	102°15'26.2217"W	0.84	
18438.00	89.860	165.520	8959.50	9898.69	-9599.86	2413.83	1406087.79	999649.82	32°24'3.2773"N	102°15'25.9425"W	0.63	
18528.00	89.610	166.080	8959.92	9988.68	-9687.11	2435.91	1406109.87	999562.55	32°24'2.4179"N	102°15'25.6675"W	0.68	
18619.00	89.770	166.310	8960.41	10079.68	-9775.48	2457.62	1406131.59	999474.16	32°24'1.5473"N	102°15'25.3964"W	0.31	
18709.00	90.170	166.630	8960.46	10169.68	-9862.99	2478.68	1406152.65	999386.65	32°24'0.6852"N	102°15'25.1332"W	0.57	
18800.00	90.470	167.000	8959.95	10260.66	-9951.58	2499.43	1406173.41	999298.03	32°23'59.8121"N	102°15'24.8733"W	0.52	
18890.00	90.690	166.570	8959.04	10350.65	-10039.20	2520.01	1406193.98	999210.40	32°23'58.9488"N	102°15'24.6157"W	0.54	





## REFERENCE WELLPATH IDENTIFICATION



# Actual Wellpath Report

University 6-48D No. 104H AWP 144' - 19485' Projection: 19510'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	Pioneer Natural Resources	Well	University 6-48D No. 104H
Field	Andrews County, TX	API	42-003-48666-0000
Facility	University 6-48 Pad	Wellbore	University 6-48D No. 104H
Slot	University 6-48D No. 104H		

## WELLPATH COMPOSITION - Ref Wellbore: University 6-48D No. 104H    Ref Wellpath: University 6-48D No. 104H AWP 144' - 19485' Projection: 19510'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
25.00	1944.00	OWSG MWD rev2 - Standard	MES MWD Surveys from 144' - 1944' (Corrected Rig Height)	University 6-48D No. 104H	11/22/2022
1944.00	6802.00	OWSG MWD rev2+IFR1+MS	12 1/4" BKR MWD Surveys 2045' - 6802'	University 6-48D No. 104H	12/9/2022
6802.00	19510.00	OWSG MWD rev2+IFR1+MS	8 1/2" BKR RSS MWD Surveys 6962' - 19485'	University 6-48D No. 104H	1/13/2023



# Actual Wellpath Report

University 6-48D No. 104H AWP 144' - 19485' Projection: 19510'

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Operator	Pioneer Natural Resources	Well	University 6-48D No. 104H
Field	Andrews County, TX	API	42-003-48666-0000
Facility	University 6-48 Pad	Wellbore	University 6-48D No. 104H
Slot	University 6-48D No. 104H		

## COMMENTS

### Wellpath general comments

Well: University 6-48D 104H  
Field: Spraberry (Trend Area)  
Rig: Ensign T125  
Location: Andrews County, TX  
API: 42-003-48666-00  
Latitude: 32°25'37.8419"N  
Longitude: 102°15'56.0359"W  
DF Elevation: 2993.00 ft  
Elev. GL: 2968.00 ft  
DF: 25.00 ft  
Proposed Direction: 165.88°  
PBHL: 19510 feet  
Duration: 12/18/2022 to 1/14/2023  
FSE's: Remote ops  
SO#: 111610575