



Actual Wellpath Report

Northdown 28-0-43-6 A 11H_awp 174'-22258' Proj: 22279'
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REFERENCE WELLPATH IDENTIFICATION

Operator	Anadarko E&P Onshore, LLC	Well	Northdown 28-0-43-6 A 11H
Field	Phantom (Wolfcamp) - Loving County, TX	API	42-301-66679-00
Facility	Northdown 28-0-43-6 Pad	Wellbore	Northdown 28-0-43-6 A 11H AWB
Slot	Northdown 28-0-43-6 A 11H		

REPORT SETUP INFORMATION

Projection System	NAD27 / Lambert Texas SP, Central Zone (4203), US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Moyagusa
Scale	0.999968	Report Generated	3/8/2024 at 4:39:06 PM
Convergence at slot	1.57° West	Database	WA_HOU_Midland_Defn

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.00	0.00	1051174.23	771686.82	31°45'9.5458"N	103°23'10.1507"W
Facility Reference Pt			1051174.23	771686.82	31°45'9.5458"N	103°23'10.1507"W
Field Reference Pt			2082485.83	492283.04	31°01'12.0000"N	100°04'12.0000"W

WELLPATH DATUM

Calculation method	Minimum curvature	H&P 266 (KB) to Facility Vertical Datum	2884.60ft
Horizontal Reference Pt	Slot	H&P 266 (KB) to Mean Sea Level	2884.60ft
Vertical Reference Pt	H&P 266 (KB)	H&P 266 (KB) to Ground Level at Slot (Northdown 28-0-43-6 A 11H)	25.00ft
MD Reference Pt	H&P 266 (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	161.56°



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Slot	Northdown 28-0-43-6 A 11H		

WELLPATH DATA (220 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]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
0.00†	0.000	81.630	0.00	0.00	0.00	0.00	1051174.23	771686.82	31°45'9.5458"N	103°23'10.1507"W	0.00	0.00	0.00	
25.00	0.000	81.630	25.00	0.00	0.00	0.00	1051174.23	771686.82	31°45'9.5458"N	103°23'10.1507"W	0.00	0.00	0.00	
174.00	0.590	81.630	174.00	0.13	0.11	0.76	1051174.99	771686.93	31°45'9.5471"N	103°23'10.1419"W	0.40	0.40	0.00	
237.00	0.650	86.090	236.99	0.28	0.18	1.44	1051175.67	771687.00	31°45'9.5480"N	103°23'10.1341"W	0.12	0.10	7.08	
330.00	0.670	83.150	329.99	0.52	0.28	2.50	1051176.73	771687.10	31°45'9.5493"N	103°23'10.1218"W	0.04	0.02	-3.16	
424.00	0.740	80.210	423.98	0.72	0.45	3.65	1051177.88	771687.27	31°45'9.5513"N	103°23'10.1086"W	0.08	0.07	-3.13	
520.00	0.830	74.030	519.97	0.85	0.75	4.93	1051179.16	771687.57	31°45'9.5546"N	103°23'10.0939"W	0.13	0.09	-6.44	
615.00	0.870	67.830	614.96	0.83	1.21	6.26	1051180.48	771688.03	31°45'9.5595"N	103°23'10.0787"W	0.11	0.04	-6.53	
710.00	0.870	70.170	709.95	0.77	1.73	7.60	1051181.83	771688.55	31°45'9.5650"N	103°23'10.0632"W	0.04	0.00	2.46	
805.00	0.600	62.970	804.94	0.67	2.20	8.72	1051182.95	771689.02	31°45'9.5699"N	103°23'10.0504"W	0.30	-0.28	-7.58	
900.00	0.170	359.970	899.94	0.47	2.57	9.17	1051183.40	771689.39	31°45'9.5737"N	103°23'10.0454"W	0.57	-0.45	-66.32	
994.00	0.090	320.960	993.94	0.26	2.76	9.12	1051183.35	771689.58	31°45'9.5756"N	103°23'10.0460"W	0.12	-0.09	-41.50	
1089.00	0.130	355.090	1088.94	0.09	2.93	9.06	1051183.29	771689.75	31°45'9.5772"N	103°23'10.0467"W	0.08	0.04	35.93	
1184.00	0.110	212.820	1183.94	0.04	2.96	9.00	1051183.23	771689.78	31°45'9.5775"N	103°23'10.0474"W	0.24	-0.02	-149.76	
1279.00	0.540	221.440	1278.94	0.32	2.55	8.66	1051182.89	771689.37	31°45'9.5733"N	103°23'10.0513"W	0.45	0.45	9.07	
1373.00	0.620	219.250	1372.93	0.82	1.82	8.04	1051182.27	771688.64	31°45'9.5660"N	103°23'10.0581"W	0.09	0.09	-2.33	
1468.00	0.750	211.350	1467.93	1.49	0.89	7.40	1051181.63	771687.71	31°45'9.5566"N	103°23'10.0654"W	0.17	0.14	-8.32	
1563.00	0.660	205.090	1562.92	2.29	-0.14	6.84	1051181.07	771686.68	31°45'9.5463"N	103°23'10.0715"W	0.12	-0.09	-6.59	
1657.00	0.680	211.090	1656.91	3.05	-1.10	6.32	1051180.55	771685.72	31°45'9.5366"N	103°23'10.0771"W	0.08	0.02	6.38	
1752.00	0.720	214.690	1751.91	3.77	-2.08	5.69	1051179.92	771684.74	31°45'9.5268"N	103°23'10.0841"W	0.06	0.04	3.79	
1847.00	0.650	226.120	1846.90	4.36	-2.94	4.96	1051179.19	771683.88	31°45'9.5181"N	103°23'10.0923"W	0.16	-0.07	12.03	
1906.00	0.560	262.290	1905.90	4.45	-3.21	4.44	1051178.67	771683.61	31°45'9.5152"N	103°23'10.0983"W	0.65	-0.15	61.31	
2026.00	0.880	300.740	2025.89	3.64	-2.82	3.06	1051177.29	771684.00	31°45'9.5187"N	103°23'10.1143"W	0.47	0.27	32.04	
2121.00	1.010	291.400	2120.87	2.56	-2.14	1.66	1051175.89	771684.68	31°45'9.5251"N	103°23'10.1308"W	0.21	0.14	-9.83	
2215.00	0.960	291.910	2214.86	1.51	-1.54	0.15	1051174.38	771685.28	31°45'9.5306"N	103°23'10.1484"W	0.05	-0.05	0.54	
2310.00	0.850	298.440	2309.85	0.48	-0.91	-1.20	1051173.03	771685.91	31°45'9.5365"N	103°23'10.1643"W	0.16	-0.12	6.87	
2405.00	0.610	335.040	2404.84	-0.53	-0.12	-2.04	1051172.19	771686.70	31°45'9.5441"N	103°23'10.1742"W	0.54	-0.25	38.53	
2595.00	0.640	349.940	2594.83	-2.59	1.84	-2.65	1051171.58	771688.66	31°45'9.5633"N	103°23'10.1819"W	0.09	0.02	7.84	
2690.00	0.960	17.990	2689.82	-3.75	3.12	-2.50	1051171.73	771689.94	31°45'9.5760"N	103°23'10.1806"W	0.52	0.34	29.53	
2784.00	0.820	36.880	2783.81	-4.77	4.41	-1.85	1051172.38	771691.23	31°45'9.5889"N	103°23'10.1735"W	0.34	-0.15	20.10	



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Facility	Northdown 28-0-43-6 Pad	Wellbore	Northdown 28-0-43-6 A 11H AWB
Slot	Northdown 28-0-43-6 A 11H		

WELLPATH DATA (220 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]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
2879.00	1.000	42.880	2878.80	-5.55	5.56	-0.88	1051173.35	771692.38	31°45'9.6006"N	103°23'10.1626"W	0.21	0.19	6.32	
2974.00	1.220	40.430	2973.78	-6.47	6.94	0.34	1051174.57	771693.76	31°45'9.6145"N	103°23'10.1489"W	0.24	0.23	-2.58	
3068.00	1.930	94.190	3067.75	-6.38	7.58	2.57	1051176.80	771694.40	31°45'9.6215"N	103°23'10.1233"W	1.66	0.76	57.19	
3162.00	3.310	105.980	3161.65	-4.24	6.72	6.76	1051180.99	771693.54	31°45'9.6141"N	103°23'10.0746"W	1.57	1.47	12.54	
3257.00	2.560	113.250	3256.52	-1.28	5.13	11.35	1051185.57	771691.95	31°45'9.5996"N	103°23'10.0210"W	0.88	-0.79	7.65	
3352.00	2.200	123.390	3351.44	1.57	3.29	14.82	1051189.05	771690.11	31°45'9.5824"N	103°23'9.9802"W	0.58	-0.38	10.67	
3446.00	2.080	133.370	3445.38	4.49	1.12	17.56	1051191.79	771687.94	31°45'9.5617"N	103°23'9.9477"W	0.42	-0.13	10.62	
3541.00	2.340	146.960	3540.31	7.89	-1.69	19.87	1051194.10	771685.13	31°45'9.5345"N	103°23'9.9201"W	0.61	0.27	14.31	
3635.00	2.540	152.830	3634.22	11.80	-5.15	21.87	1051196.10	771681.67	31°45'9.5008"N	103°23'9.8959"W	0.34	0.21	6.24	
3730.00	2.890	167.690	3729.12	16.26	-9.36	23.34	1051197.57	771677.46	31°45'9.4595"N	103°23'9.8775"W	0.82	0.37	15.64	
3825.00	3.030	193.630	3823.99	20.77	-14.14	23.26	1051197.49	771672.68	31°45'9.4122"N	103°23'9.8769"W	1.41	0.15	27.31	
3919.00	3.030	199.620	3917.86	24.83	-18.89	21.84	1051196.07	771667.93	31°45'9.3648"N	103°23'9.8918"W	0.34	0.00	6.37	
4014.00	2.920	174.260	4012.74	29.17	-23.67	21.24	1051195.47	771663.15	31°45'9.3174"N	103°23'9.8973"W	1.38	-0.12	-26.69	
4109.00	3.200	157.500	4107.60	34.18	-28.53	22.50	1051196.73	771658.30	31°45'9.2697"N	103°23'9.8812"W	0.98	0.29	-17.64	
4204.00	3.080	135.450	4202.46	39.11	-32.79	25.30	1051199.53	771654.03	31°45'9.2283"N	103°23'9.8473"W	1.27	-0.13	-23.21	
4299.00	3.420	112.140	4297.32	43.25	-35.68	29.72	1051203.95	771651.14	31°45'9.2009"N	103°23'9.7953"W	1.43	0.36	-24.54	
4394.00	2.040	127.360	4392.21	46.49	-37.77	33.69	1051207.92	771649.05	31°45'9.1813"N	103°23'9.7487"W	1.63	-1.45	16.02	
4488.00	1.860	182.880	4486.16	49.30	-40.31	34.94	1051209.17	771646.51	31°45'9.1565"N	103°23'9.7334"W	1.94	-0.19	59.06	
4583.00	2.340	180.360	4581.10	52.57	-43.79	34.85	1051209.08	771643.03	31°45'9.1220"N	103°23'9.7333"W	0.51	0.51	-2.65	
4678.00	2.520	163.550	4676.01	56.49	-47.74	35.43	1051209.66	771639.09	31°45'9.0832"N	103°23'9.7254"W	0.77	0.19	-17.69	
4773.00	2.650	160.130	4770.92	60.77	-51.80	36.77	1051211.00	771635.02	31°45'9.0433"N	103°23'9.7086"W	0.21	0.14	-3.60	
4868.00	2.550	120.680	4865.83	64.57	-54.95	39.33	1051213.56	771631.87	31°45'9.0129"N	103°23'9.6779"W	1.85	-0.11	-41.53	
4963.00	2.840	117.480	4960.72	67.86	-57.11	43.24	1051217.47	771629.71	31°45'8.9926"N	103°23'9.6320"W	0.34	0.31	-3.37	
5057.00	1.900	135.840	5054.64	70.93	-59.30	46.39	1051220.62	771627.52	31°45'8.9717"N	103°23'9.5948"W	1.27	-1.00	19.53	
5152.00	1.220	149.260	5149.60	73.34	-61.30	48.00	1051222.23	771625.52	31°45'8.9524"N	103°23'9.5755"W	0.81	-0.72	14.13	
5247.00	1.420	153.880	5244.58	75.49	-63.23	49.04	1051223.27	771623.59	31°45'8.9336"N	103°23'9.5629"W	0.24	0.21	4.86	
5342.00	1.310	149.480	5339.55	77.72	-65.22	50.11	1051224.34	771621.60	31°45'8.9142"N	103°23'9.5499"W	0.16	-0.12	-4.63	
5437.00	1.330	145.710	5434.53	79.85	-67.07	51.28	1051225.51	771619.75	31°45'8.8963"N	103°23'9.5357"W	0.09	0.02	-3.97	
5532.00	1.440	137.120	5529.50	81.99	-68.85	52.71	1051226.94	771617.97	31°45'8.8790"N	103°23'9.5185"W	0.25	0.12	-9.04	
5626.00	1.640	136.980	5623.47	84.29	-70.70	54.44	1051228.66	771616.12	31°45'8.8612"N	103°23'9.4980"W	0.21	0.21	-0.15	



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WELLPATH DATA (220 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]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
5721.00	1.650	134.870	5718.43	86.75	-72.66	56.33	1051230.56	771614.16	31°45'8.8423"N	103°23'9.4755"W	0.06	0.01	-2.22	
5816.00	1.690	131.990	5813.39	89.19	-74.56	58.34	1051232.57	771612.26	31°45'8.8240"N	103°23'9.4516"W	0.10	0.04	-3.03	
5911.00	1.820	132.110	5908.34	91.72	-76.51	60.50	1051234.73	771610.31	31°45'8.8053"N	103°23'9.4259"W	0.14	0.14	0.13	
6006.00	2.110	135.740	6003.29	94.61	-78.78	62.84	1051237.07	771608.05	31°45'8.7836"N	103°23'9.3981"W	0.33	0.31	3.82	
6100.00	4.220	139.360	6097.14	99.37	-82.64	66.30	1051240.53	771604.18	31°45'8.7463"N	103°23'9.3568"W	2.25	2.24	3.85	
6195.00	6.680	136.580	6191.70	107.62	-89.31	72.38	1051246.61	771597.52	31°45'8.6820"N	103°23'9.2844"W	2.60	2.59	-2.93	
6290.00	9.080	140.160	6285.80	119.61	-99.08	80.98	1051255.21	771587.75	31°45'8.5877"N	103°23'9.1817"W	2.58	2.53	3.77	
6385.00	11.220	146.280	6379.31	135.50	-112.52	90.92	1051265.14	771574.30	31°45'8.4574"N	103°23'9.0624"W	2.52	2.25	6.44	
6480.00	13.650	147.950	6472.07	155.32	-129.71	102.00	1051276.22	771557.11	31°45'8.2903"N	103°23'8.9287"W	2.59	2.56	1.76	
6574.00	17.010	143.840	6562.72	179.20	-150.22	116.00	1051290.23	771536.60	31°45'8.0912"N	103°23'8.7601"W	3.75	3.57	-4.37	
6669.00	19.910	140.660	6652.82	207.56	-173.96	134.46	1051308.68	771512.87	31°45'7.8614"N	103°23'8.5389"W	3.23	3.05	-3.35	
6764.00	21.180	140.200	6741.78	238.65	-199.65	155.70	1051329.92	771487.17	31°45'7.6130"N	103°23'8.2848"W	1.35	1.34	-0.48	
6858.00	22.880	139.370	6828.91	271.39	-226.57	178.47	1051352.69	771460.26	31°45'7.3529"N	103°23'8.0126"W	1.84	1.81	-0.88	
6953.00	20.950	137.470	6917.04	304.00	-253.11	201.98	1051376.20	771433.72	31°45'7.0968"N	103°23'7.7320"W	2.16	-2.03	-2.00	
7048.00	17.740	141.240	7006.67	333.08	-276.91	222.53	1051396.75	771409.92	31°45'6.8669"N	103°23'7.4866"W	3.62	-3.38	3.97	
7143.00	17.710	141.510	7097.16	360.23	-299.51	240.58	1051414.80	771387.32	31°45'6.6482"N	103°23'7.2704"W	0.09	-0.03	0.28	
7238.00	17.950	141.590	7187.60	387.56	-322.29	258.67	1051432.89	771364.54	31°45'6.4278"N	103°23'7.0538"W	0.25	0.25	0.08	
7332.00	18.220	141.150	7276.96	414.95	-345.09	276.88	1051451.11	771341.75	31°45'6.2072"N	103°23'6.8357"W	0.32	0.29	-0.47	
7427.00	18.720	141.090	7367.06	443.15	-368.51	295.78	1051470.00	771318.32	31°45'5.9806"N	103°23'6.6095"W	0.53	0.53	-0.06	
7522.00	19.420	141.050	7456.85	472.23	-392.66	315.28	1051489.50	771294.17	31°45'5.7470"N	103°23'6.3761"W	0.74	0.74	-0.04	
7617.00	18.860	139.990	7546.60	501.30	-416.70	335.08	1051509.30	771270.13	31°45'5.5146"N	103°23'6.1392"W	0.69	-0.59	-1.12	
7712.00	18.040	139.100	7636.71	529.17	-439.58	354.58	1051528.80	771247.25	31°45'5.2935"N	103°23'5.9061"W	0.91	-0.86	-0.94	
7807.00	18.060	138.780	7727.04	556.34	-461.78	373.92	1051548.14	771225.06	31°45'5.0792"N	103°23'5.6753"W	0.11	0.02	-0.34	
7901.00	17.350	137.690	7816.58	582.59	-483.10	392.95	1051567.17	771203.73	31°45'4.8734"N	103°23'5.4481"W	0.83	-0.76	-1.16	
7996.00	17.220	138.330	7907.29	608.47	-504.08	411.84	1051586.05	771182.76	31°45'4.6710"N	103°23'5.2228"W	0.24	-0.14	0.67	
8091.00	17.090	137.840	7998.07	634.17	-524.93	430.56	1051604.77	771161.91	31°45'4.4698"N	103°23'4.9995"W	0.20	-0.14	-0.52	
8186.00	17.100	137.950	8088.87	659.75	-545.65	449.28	1051623.50	771141.19	31°45'4.2699"N	103°23'4.7762"W	0.04	0.01	0.12	
8280.00	16.420	139.780	8178.88	684.75	-566.06	467.12	1051641.33	771120.78	31°45'4.0729"N	103°23'4.5632"W	0.92	-0.72	1.95	
8375.00	16.180	140.470	8270.06	709.57	-586.52	484.21	1051658.42	771100.32	31°45'3.8751"N	103°23'4.3588"W	0.32	-0.25	0.73	
8470.00	14.550	139.760	8361.66	733.00	-605.84	500.35	1051674.56	771081.00	31°45'3.6884"N	103°23'4.1659"W	1.73	-1.72	-0.75	



Actual Wellpath Report

Northdown 28-0-43-6 A 11H_awp 174'-22258' Proj: 22279'

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REFERENCE WELLPATH IDENTIFICATION

Operator	Anadarko E&P Onshore, LLC	Well	Northdown 28-0-43-6 A 11H
Field	Phantom (Wolfcamp) - Loving County, TX	API	42-301-66679-00
Facility	Northdown 28-0-43-6 Pad	Wellbore	Northdown 28-0-43-6 A 11H AWB
Slot	Northdown 28-0-43-6 A 11H		

WELLPATH DATA (220 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]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
8565.00	13.000	138.890	8453.93	753.94	-623.00	515.08	1051689.29	771063.84	31°45'3.5226"N	103°23'3.9899"W	1.65	-1.63	-0.92	
8660.00	12.900	139.810	8546.51	773.65	-639.15	528.95	1051703.16	771047.69	31°45'3.3666"N	103°23'3.8242"W	0.24	-0.11	0.97	
8754.00	13.030	140.520	8638.11	793.28	-655.35	542.46	1051716.67	771031.50	31°45'3.2101"N	103°23'3.6627"W	0.22	0.14	0.76	
8849.00	13.040	141.790	8730.67	813.37	-672.03	555.90	1051730.11	771014.81	31°45'3.0486"N	103°23'3.5018"W	0.30	0.01	1.34	
8944.00	11.710	141.480	8823.46	832.51	-688.00	568.53	1051742.74	770998.84	31°45'2.8941"N	103°23'3.3505"W	1.40	-1.40	-0.33	
9039.00	10.240	141.690	8916.72	849.50	-702.17	579.77	1051753.98	770984.68	31°45'2.7570"N	103°23'3.2159"W	1.55	-1.55	0.22	
9134.00	8.770	141.530	9010.41	864.25	-714.46	589.51	1051763.72	770972.38	31°45'2.6380"N	103°23'3.0992"W	1.55	-1.55	-0.17	
9229.00	7.710	142.960	9104.43	877.09	-725.22	597.85	1051772.06	770961.62	31°45'2.5339"N	103°23'2.9992"W	1.14	-1.12	1.51	
9323.00	7.210	145.350	9197.63	888.73	-735.11	605.01	1051779.22	770951.74	31°45'2.4380"N	103°23'2.9133"W	0.63	-0.53	2.54	
9418.00	6.640	147.700	9291.94	899.79	-744.65	611.33	1051785.54	770942.19	31°45'2.3453"N	103°23'2.8370"W	0.67	-0.60	2.47	
9608.00	4.550	163.240	9481.03	917.99	-761.16	619.38	1051793.58	770925.69	31°45'2.1842"N	103°23'2.7386"W	1.35	-1.10	8.18	
9703.00	3.990	170.110	9575.77	925.03	-768.02	621.03	1051795.24	770918.82	31°45'2.1167"N	103°23'2.7173"W	0.80	-0.59	7.23	
9798.00	3.490	168.980	9670.57	931.16	-774.12	622.15	1051796.36	770912.73	31°45'2.0567"N	103°23'2.7024"W	0.53	-0.53	-1.19	
9893.00	3.000	174.630	9765.41	936.45	-779.43	622.94	1051797.14	770907.42	31°45'2.0044"N	103°23'2.6916"W	0.62	-0.52	5.95	
9987.00	2.330	182.450	9859.31	940.63	-783.79	623.08	1051797.29	770903.06	31°45'1.9613"N	103°23'2.6885"W	0.81	-0.71	8.32	
10082.00	2.140	186.680	9954.24	944.04	-787.48	622.80	1051797.00	770899.37	31°45'1.9247"N	103°23'2.6907"W	0.26	-0.20	4.45	
10177.00	2.210	185.700	10049.17	947.32	-791.06	622.41	1051796.62	770895.78	31°45'1.8892"N	103°23'2.6941"W	0.08	0.07	-1.03	
10272.00	2.130	182.850	10144.10	950.64	-794.65	622.14	1051796.35	770892.20	31°45'1.8536"N	103°23'2.6960"W	0.14	-0.08	-3.00	
10367.00	1.940	185.980	10239.04	953.75	-798.01	621.88	1051796.09	770888.84	31°45'1.8203"N	103°23'2.6979"W	0.23	-0.20	3.29	
10462.00	1.270	181.210	10334.01	956.20	-800.66	621.69	1051795.90	770886.18	31°45'1.7940"N	103°23'2.6993"W	0.72	-0.71	-5.02	
10557.00	0.830	135.020	10428.99	957.81	-802.20	622.16	1051796.37	770884.64	31°45'1.7789"N	103°23'2.6934"W	0.97	-0.46	-48.62	
10651.00	0.800	102.470	10522.98	958.76	-802.83	623.28	1051797.49	770884.02	31°45'1.7730"N	103°23'2.6802"W	0.49	-0.03	-34.63	
10746.00	1.380	97.160	10617.96	959.59	-803.11	625.06	1051799.27	770883.74	31°45'1.7707"N	103°23'2.6595"W	0.62	0.61	-5.59	
10841.00	2.080	94.210	10712.92	960.75	-803.38	627.92	1051802.12	770883.47	31°45'1.7688"N	103°23'2.6264"W	0.74	0.74	-3.11	
11031.00	1.290	80.640	10902.84	962.41	-803.29	633.46	1051807.67	770883.56	31°45'1.7713"N	103°23'2.5622"W	0.46	-0.42	-7.14	
11126.00	0.620	104.610	10997.82	962.86	-803.24	635.02	1051809.23	770883.60	31°45'1.7721"N	103°23'2.5442"W	0.81	-0.71	25.23	
11315.00	0.900	236.700	11186.82	963.80	-804.32	634.77	1051808.97	770882.53	31°45'1.7614"N	103°23'2.5468"W	0.74	0.15	69.89	
11394.00	1.280	199.900	11265.80	964.65	-805.49	633.95	1051808.16	770881.36	31°45'1.7496"N	103°23'2.5559"W	0.98	0.48	-46.58	
11582.00	12.060	175.440	11452.27	985.43	-827.10	634.80	1051809.00	770859.74	31°45'1.5360"N	103°23'2.5392"W	5.80	5.73	-13.01	
11677.00	20.660	161.500	11543.37	1011.88	-852.95	640.92	1051815.13	770833.90	31°45'1.2820"N	103°23'2.4601"W	9.89	9.05	-14.67	



Actual Wellpath Report

Northdown 28-0-43-6 A 11H_awp 174'-22258' Proj: 22279'

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REFERENCE WELLPATH IDENTIFICATION

Operator	Anadarko E&P Onshore, LLC	Well	Northdown 28-0-43-6 A 11H
Field	Phantom (Wolfcamp) - Loving County, TX	API	42-301-66679-00
Facility	Northdown 28-0-43-6 Pad	Wellbore	Northdown 28-0-43-6 A 11H AWB
Slot	Northdown 28-0-43-6 A 11H		

WELLPATH DATA (220 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]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
11772.00	33.520	155.390	11627.79	1054.91	-892.86	657.23	1051831.44	770793.99	31°45'0.8916"N	103°23'2.2586"W	13.83	13.54	-6.43	
11866.00	44.270	152.780	11700.84	1113.31	-945.79	683.12	1051857.33	770741.06	31°45'0.3750"N	103°23'1.9421"W	11.57	11.44	-2.78	
11961.00	52.230	154.440	11764.05	1183.45	-1009.26	714.54	1051888.75	770677.60	31°44'59.7557"N	103°23'1.5582"W	8.48	8.38	1.75	
12055.00	63.170	154.550	11814.21	1262.19	-1080.86	748.70	1051922.90	770606.00	31°44'59.0566"N	103°23'1.1401"W	11.64	11.64	0.12	
12150.00	73.790	155.730	11849.01	1349.89	-1160.95	785.77	1051959.97	770525.91	31°44'58.2744"N	103°23'0.6855"W	11.24	11.18	1.24	
12245.00	86.450	158.050	11865.28	1442.97	-1246.86	822.39	1051996.59	770440.00	31°44'57.4345"N	103°23'0.2343"W	13.54	13.33	2.44	
12339.00	89.530	162.260	11868.57	1536.85	-1335.20	854.27	1052028.47	770351.67	31°44'56.5693"N	103°22'59.8372"W	5.55	3.28	4.48	
12434.00	89.470	162.380	11869.40	1631.84	-1425.70	883.12	1052057.32	770261.16	31°44'55.6817"N	103°22'59.4745"W	0.14	-0.06	0.13	
12529.00	89.160	161.970	11870.54	1726.83	-1516.14	912.20	1052086.39	770170.73	31°44'54.7950"N	103°22'59.1092"W	0.54	-0.33	-0.43	
12719.00	90.290	158.070	11871.45	1916.72	-1694.66	977.10	1052151.30	769992.22	31°44'53.0466"N	103°22'58.3011"W	2.14	0.59	-2.05	
12813.00	89.810	158.730	11871.37	2010.58	-1782.06	1011.71	1052185.90	769904.82	31°44'52.1914"N	103°22'57.8728"W	0.87	-0.51	0.70	
12909.00	88.790	158.060	11872.54	2106.42	-1871.31	1047.05	1052221.25	769815.58	31°44'51.3181"N	103°22'57.4353"W	1.27	-1.06	-0.70	
13003.00	88.940	159.680	11874.40	2200.30	-1958.97	1080.93	1052255.12	769727.92	31°44'50.4601"N	103°22'57.0153"W	1.73	0.16	1.72	
13098.00	88.880	161.070	11876.21	2295.26	-2048.43	1112.83	1052287.02	769638.46	31°44'49.5837"N	103°22'56.6176"W	1.46	-0.06	1.46	
13193.00	89.810	163.060	11877.30	2390.24	-2138.80	1142.08	1052316.27	769548.09	31°44'48.6976"N	103°22'56.2504"W	2.31	0.98	2.09	
13288.00	89.900	163.150	11877.54	2485.20	-2229.70	1169.69	1052343.88	769457.19	31°44'47.8059"N	103°22'55.9019"W	0.13	0.09	0.09	
13382.00	89.930	165.470	11877.68	2579.09	-2320.19	1195.11	1052369.30	769366.71	31°44'46.9176"N	103°22'55.5790"W	2.47	0.03	2.47	
13477.00	89.930	167.480	11877.79	2673.74	-2412.55	1217.32	1052391.51	769274.35	31°44'46.0100"N	103°22'55.2925"W	2.12	0.00	2.12	
13572.00	89.870	169.430	11877.96	2768.04	-2505.63	1236.34	1052410.52	769181.28	31°44'45.0944"N	103°22'55.0429"W	2.05	-0.06	2.05	
13667.00	89.930	169.560	11878.13	2862.13	-2599.03	1253.66	1052427.84	769087.87	31°44'44.1750"N	103°22'54.8127"W	0.15	0.06	0.14	
13856.00	90.050	168.240	11878.16	3049.58	-2784.49	1290.04	1052464.23	768902.42	31°44'42.3502"N	103°22'54.3327"W	0.70	0.06	-0.70	
13951.00	90.120	168.140	11878.02	3143.95	-2877.48	1309.49	1052483.67	768809.44	31°44'41.4356"N	103°22'54.0781"W	0.13	0.07	-0.11	
14046.00	90.120	165.870	11877.82	3238.51	-2970.04	1330.85	1052505.03	768716.88	31°44'40.5258"N	103°22'53.8015"W	2.39	0.00	-2.39	
14140.00	90.020	165.690	11877.70	3332.26	-3061.16	1353.94	1052528.12	768625.76	31°44'39.6306"N	103°22'53.5053"W	0.22	-0.11	-0.19	
14235.00	89.410	164.320	11878.18	3427.08	-3152.93	1378.52	1052552.70	768534.00	31°44'38.7295"N	103°22'53.1916"W	1.58	-0.64	-1.44	
14424.00	89.500	164.300	11879.97	3615.85	-3334.87	1429.63	1052603.81	768352.06	31°44'36.9434"N	103°22'52.5423"W	0.05	0.05	-0.01	
14519.00	89.310	164.310	11880.96	3710.74	-3426.33	1455.32	1052629.50	768260.61	31°44'36.0457"N	103°22'52.2158"W	0.20	-0.20	0.01	
14614.00	89.470	164.230	11881.97	3805.63	-3517.76	1481.08	1052655.26	768169.18	31°44'35.1481"N	103°22'51.8887"W	0.19	0.17	-0.08	
14708.00	89.350	164.080	11882.94	3899.53	-3608.19	1506.74	1052680.92	768078.76	31°44'34.2606"N	103°22'51.5629"W	0.20	-0.13	-0.16	
14803.00	90.020	163.560	11883.46	3994.45	-3699.42	1533.21	1052707.39	767987.52	31°44'33.3652"N	103°22'51.2276"W	0.89	0.71	-0.55	



Actual Wellpath Report

Northdown 28-0-43-6 A 11H_awp 174'-22258' Proj: 22279'
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REFERENCE WELLPATH IDENTIFICATION

Operator	Anadarko E&P Onshore, LLC	Well	Northdown 28-0-43-6 A 11H
Field	Phantom (Wolfcamp) - Loving County, TX	API	42-301-66679-00
Facility	Northdown 28-0-43-6 Pad	Wellbore	Northdown 28-0-43-6 A 11H AWB
Slot	Northdown 28-0-43-6 A 11H		

WELLPATH DATA (220 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]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
14898.00	89.990	163.570	11883.45	4089.39	-3790.54	1560.09	1052734.27	767896.41	31°44'32.4711"N	103°22'50.8875"W	0.03	-0.03	0.01	
14992.00	89.990	163.620	11883.47	4183.33	-3880.71	1586.64	1052760.81	767806.24	31°44'31.5863"N	103°22'50.5516"W	0.05	0.00	0.05	
15087.00	89.960	163.600	11883.51	4278.27	-3971.85	1613.44	1052787.62	767715.10	31°44'30.6919"N	103°22'50.2124"W	0.04	-0.03	-0.02	
15182.00	90.240	163.680	11883.35	4373.21	-4063.01	1640.20	1052814.38	767623.95	31°44'29.7974"N	103°22'49.8738"W	0.31	0.29	0.08	
15277.00	91.220	163.700	11882.14	4468.13	-4154.18	1666.88	1052841.05	767532.79	31°44'28.9028"N	103°22'49.5361"W	1.03	1.03	0.02	
15467.00	90.730	163.980	11878.90	4657.96	-4336.64	1719.75	1052893.92	767350.33	31°44'27.1121"N	103°22'48.8662"W	0.30	-0.26	0.15	
15561.00	90.580	163.610	11877.83	4751.88	-4426.90	1745.98	1052920.15	767260.07	31°44'26.2263"N	103°22'48.5339"W	0.42	-0.16	-0.39	
15656.00	90.980	163.900	11876.53	4846.80	-4518.10	1772.56	1052946.73	767168.88	31°44'25.3313"N	103°22'48.1974"W	0.52	0.42	0.31	
15751.00	90.080	163.800	11875.66	4941.72	-4609.35	1798.98	1052973.15	767077.63	31°44'24.4358"N	103°22'47.8626"W	0.95	-0.95	-0.11	
15941.00	89.930	163.780	11875.64	5131.57	-4791.79	1852.02	1053026.19	766895.19	31°44'22.6453"N	103°22'47.1908"W	0.08	-0.08	-0.01	
16036.00	90.270	164.150	11875.47	5226.49	-4883.10	1878.26	1053052.43	766803.89	31°44'21.7492"N	103°22'46.8581"W	0.53	0.36	0.39	
16131.00	90.450	164.010	11874.88	5321.40	-4974.45	1904.32	1053078.48	766712.54	31°44'20.8525"N	103°22'46.5276"W	0.24	0.19	-0.15	
16320.00	90.150	163.630	11873.89	5510.25	-5155.96	1956.99	1053131.15	766531.04	31°44'19.0712"N	103°22'45.8604"W	0.26	-0.16	-0.20	
16415.00	90.150	163.450	11873.64	5605.19	-5247.07	1983.90	1053158.06	766439.93	31°44'18.1772"N	103°22'45.5200"W	0.19	0.00	-0.19	
16510.00	89.870	163.510	11873.62	5700.14	-5338.15	2010.92	1053185.08	766348.86	31°44'17.2836"N	103°22'45.1784"W	0.30	-0.29	0.06	
16605.00	89.960	163.590	11873.76	5795.08	-5429.26	2037.82	1053211.98	766257.75	31°44'16.3895"N	103°22'44.8381"W	0.13	0.09	0.08	
16700.00	89.870	163.440	11873.90	5890.02	-5520.35	2064.78	1053238.93	766166.66	31°44'15.4957"N	103°22'44.4972"W	0.18	-0.09	-0.16	
16794.00	90.050	163.690	11873.97	5983.97	-5610.51	2091.37	1053265.53	766076.50	31°44'14.6110"N	103°22'44.1608"W	0.33	0.19	0.27	
16984.00	89.990	163.790	11873.90	6173.83	-5792.91	2144.57	1053318.73	765894.11	31°44'12.8210"N	103°22'43.4872"W	0.06	-0.03	0.05	
17174.00	89.990	163.480	11873.94	6363.70	-5975.21	2198.10	1053372.26	765711.81	31°44'11.0320"N	103°22'42.8098"W	0.16	0.00	-0.16	
17268.00	89.960	163.630	11873.98	6457.65	-6065.37	2224.71	1053398.87	765621.66	31°44'10.1474"N	103°22'42.4732"W	0.16	-0.03	0.16	
17363.00	89.870	163.480	11874.12	6552.59	-6156.48	2251.61	1053425.76	765530.55	31°44'9.2533"N	103°22'42.1331"W	0.18	-0.09	-0.16	
17458.00	90.020	163.690	11874.21	6647.53	-6247.61	2278.45	1053452.61	765439.43	31°44'8.3591"N	103°22'41.7934"W	0.27	0.16	0.22	
17552.00	90.020	163.670	11874.18	6741.46	-6337.82	2304.87	1053479.02	765349.22	31°44'7.4738"N	103°22'41.4591"W	0.02	0.00	-0.02	
17647.00	90.050	163.590	11874.12	6836.40	-6428.97	2331.64	1053505.79	765258.07	31°44'6.5794"N	103°22'41.1203"W	0.09	0.03	-0.08	
17742.00	89.840	163.780	11874.21	6931.34	-6520.14	2358.33	1053532.48	765166.90	31°44'5.6847"N	103°22'40.7825"W	0.30	-0.22	0.20	
17837.00	90.300	163.460	11874.09	7026.28	-6611.29	2385.12	1053559.27	765075.76	31°44'4.7903"N	103°22'40.4436"W	0.59	0.48	-0.34	
17932.00	89.840	163.720	11873.98	7121.22	-6702.42	2411.96	1053586.11	764984.63	31°44'3.8960"N	103°22'40.1041"W	0.56	-0.48	0.27	
18026.00	89.750	163.480	11874.31	7215.16	-6792.59	2438.50	1053612.65	764894.46	31°44'3.0112"N	103°22'39.7683"W	0.27	-0.10	-0.26	
18121.00	90.150	163.530	11874.40	7310.10	-6883.68	2465.47	1053639.62	764803.37	31°44'2.1173"N	103°22'39.4272"W	0.42	0.42	0.05	



Actual Wellpath Report

Northdown 28-0-43-6 A 11H_awp 174'-22258' Proj: 22279'

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REFERENCE WELLPATH IDENTIFICATION

Operator	Anadarko E&P Onshore, LLC	Well	Northdown 28-0-43-6 A 11H
Field	Phantom (Wolfcamp) - Loving County, TX	API	42-301-66679-00
Facility	Northdown 28-0-43-6 Pad	Wellbore	Northdown 28-0-43-6 A 11H AWB
Slot	Northdown 28-0-43-6 A 11H		

WELLPATH DATA (220 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]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
18311.00	90.490	163.470	11873.34	7499.99	-7065.86	2519.43	1053693.58	764621.21	31°44'0.3298"N	103°22'38.7449"W	0.18	0.18	-0.03	
18406.00	90.730	163.470	11872.32	7594.93	-7156.92	2546.46	1053720.60	764530.14	31°43'59.4362"N	103°22'38.4033"W	0.25	0.25	0.00	
18501.00	90.330	163.400	11871.44	7689.87	-7247.98	2573.55	1053747.69	764439.09	31°43'58.5428"N	103°22'38.0610"W	0.43	-0.42	-0.07	
18596.00	90.390	163.520	11870.85	7784.82	-7339.04	2600.59	1053774.73	764348.03	31°43'57.6492"N	103°22'37.7191"W	0.14	0.06	0.13	
18691.00	90.180	163.610	11870.38	7879.76	-7430.16	2627.47	1053801.61	764256.91	31°43'56.7551"N	103°22'37.3791"W	0.24	-0.22	0.09	
18880.00	89.870	163.460	11870.29	8068.65	-7611.41	2681.04	1053855.17	764075.67	31°43'54.9766"N	103°22'36.7017"W	0.18	-0.16	-0.08	
18975.00	90.150	163.540	11870.28	8163.59	-7702.50	2708.02	1053882.15	763984.59	31°43'54.0828"N	103°22'36.3606"W	0.31	0.29	0.08	
19070.00	90.080	163.470	11870.09	8258.54	-7793.59	2734.99	1053909.13	763893.50	31°43'53.1890"N	103°22'36.0195"W	0.10	-0.07	-0.07	
19164.00	90.180	163.550	11869.87	8352.48	-7883.72	2761.67	1053935.81	763803.37	31°43'52.3046"N	103°22'35.6822"W	0.14	0.11	0.09	
19354.00	90.520	163.970	11868.71	8542.34	-8066.14	2814.81	1053988.94	763620.96	31°43'50.5144"N	103°22'35.0094"W	0.28	0.18	0.22	
19448.00	90.120	163.790	11868.19	8636.26	-8156.44	2840.91	1054015.04	763530.66	31°43'49.6281"N	103°22'34.6787"W	0.47	-0.43	-0.19	
19543.00	90.520	164.460	11867.66	8731.16	-8247.81	2866.89	1054041.02	763439.29	31°43'48.7312"N	103°22'34.3490"W	0.82	0.42	0.71	
19638.00	90.180	163.950	11867.08	8826.06	-8339.22	2892.75	1054066.88	763347.88	31°43'47.8340"N	103°22'34.0208"W	0.65	-0.36	-0.54	
19733.00	89.930	163.660	11866.98	8920.99	-8430.45	2919.25	1054093.38	763256.66	31°43'46.9386"N	103°22'33.6853"W	0.40	-0.26	-0.31	
19827.00	89.960	164.010	11867.08	9014.91	-8520.74	2945.42	1054119.54	763166.38	31°43'46.0526"N	103°22'33.3538"W	0.37	0.03	0.37	
19922.00	90.760	164.760	11866.48	9109.79	-8612.23	2970.99	1054145.11	763074.89	31°43'45.1544"N	103°22'33.0289"W	1.15	0.84	0.79	
20017.00	89.530	160.150	11866.24	9204.75	-8702.78	2999.62	1054173.74	762984.34	31°43'44.2663"N	103°22'32.6688"W	5.02	-1.29	-4.85	
20111.00	90.790	159.900	11865.98	9298.72	-8791.13	3031.73	1054205.85	762896.00	31°43'43.4011"N	103°22'32.2692"W	1.37	1.34	-0.27	
20206.00	90.950	158.320	11864.53	9393.62	-8879.87	3065.60	1054239.72	762807.26	31°43'42.5324"N	103°22'31.8491"W	1.67	0.17	-1.66	
20301.00	90.860	158.070	11863.03	9488.44	-8968.06	3100.88	1054275.00	762719.07	31°43'41.6695"N	103°22'31.4129"W	0.28	-0.09	-0.26	
20395.00	90.980	158.140	11861.52	9582.26	-9055.27	3135.93	1054310.05	762631.86	31°43'40.8162"N	103°22'30.9796"W	0.15	0.13	0.07	
20585.00	89.650	157.230	11860.48	9771.82	-9231.03	3208.07	1054382.19	762456.11	31°43'39.0970"N	103°22'30.0890"W	0.85	-0.70	-0.48	
20680.00	89.590	157.290	11861.11	9866.55	-9318.64	3244.79	1054418.91	762368.50	31°43'38.2402"N	103°22'29.6363"W	0.09	-0.06	0.06	
20775.00	89.530	157.020	11861.84	9961.26	-9406.19	3281.67	1054455.79	762280.95	31°43'37.3841"N	103°22'29.1818"W	0.29	-0.06	-0.28	
20870.00	89.440	156.980	11862.69	10055.96	-9493.63	3318.79	1054492.90	762193.51	31°43'36.5291"N	103°22'28.7245"W	0.10	-0.09	-0.04	
20965.00	89.710	156.480	11863.40	10150.62	-9580.90	3356.32	1054530.43	762106.25	31°43'35.6760"N	103°22'28.2625"W	0.60	0.28	-0.53	
21059.00	89.500	159.180	11864.04	10244.41	-9667.94	3391.79	1054565.90	762019.21	31°43'34.8245"N	103°22'27.8245"W	2.88	-0.22	2.87	
21154.00	89.500	162.270	11864.87	10339.38	-9757.60	3423.14	1054597.25	761929.55	31°43'33.9460"N	103°22'27.4332"W	3.25	0.00	3.25	
21249.00	89.780	165.390	11865.47	10434.29	-9848.83	3449.59	1054623.70	761838.33	31°43'33.0507"N	103°22'27.0982"W	3.30	0.29	3.28	
21344.00	90.390	170.460	11865.33	10528.68	-9941.70	3469.46	1054643.57	761745.46	31°43'32.1373"N	103°22'26.8389"W	5.38	0.64	5.34	



Actual Wellpath Report

Northdown 28-0-43-6 A 11H_awp 174'-22258' Proj: 22279'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	Anadarko E&P Onshore, LLC	Well	Northdown 28-0-43-6 A 11H
Field	Phantom (Wolfcamp) - Loving County, TX	API	42-301-66679-00
Facility	Northdown 28-0-43-6 Pad	Wellbore	Northdown 28-0-43-6 A 11H AWB
Slot	Northdown 28-0-43-6 A 11H		

WELLPATH DATA (220 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]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
21439.00	89.650	168.260	11865.30	10622.79	-10035.06	3487.00	1054661.11	761652.11	31°43'31.2185"N	103°22'26.6064"W	2.44	-0.78	-2.32	
21534.00	89.040	167.850	11866.38	10717.18	-10128.00	3506.66	1054680.77	761559.17	31°43'30.3044"N	103°22'26.3494"W	0.77	-0.64	-0.43	
21629.00	91.100	168.820	11866.27	10811.51	-10221.03	3525.87	1054699.98	761466.14	31°43'29.3893"N	103°22'26.0977"W	2.40	2.17	1.02	
21724.00	90.760	167.690	11864.72	10905.84	-10314.03	3545.20	1054719.31	761373.15	31°43'28.4746"N	103°22'25.8445"W	1.24	-0.36	-1.19	
21819.00	90.180	166.350	11863.95	11000.41	-10406.59	3566.54	1054740.65	761280.59	31°43'27.5646"N	103°22'25.5683"W	1.54	-0.61	-1.41	
21913.00	90.180	164.420	11863.65	11094.19	-10497.55	3590.26	1054764.36	761189.64	31°43'26.6712"N	103°22'25.2650"W	2.05	0.00	-2.05	
22103.00	90.120	163.480	11863.15	11284.02	-10680.14	3642.79	1054816.89	761007.05	31°43'24.8791"N	103°22'24.5993"W	0.50	-0.03	-0.49	
22198.00	90.120	164.120	11862.95	11378.95	-10771.36	3669.29	1054843.39	760915.83	31°43'23.9838"N	103°22'24.2637"W	0.67	0.00	0.67	
22258.00	89.870	164.230	11862.96	11438.89	-10829.09	3685.65	1054859.75	760858.10	31°43'23.4172"N	103°22'24.0561"W	0.46	-0.42	0.18	
22279.00‡	89.870	164.230	11863.01	11459.87	-10849.30	3691.36	1054865.46	760837.89	31°43'23.2188"N	103°22'23.9836"W	0.00	0.00	0.00	



Actual Wellpath Report

Northdown 28-0-43-6 A 11H_awp 174'-22258' Proj: 22279'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	Anadarko E&P Onshore, LLC	Well	Northdown 28-0-43-6 A 11H
Field	Phantom (Wolfcamp) - Loving County, TX	API	42-301-66679-00
Facility	Northdown 28-0-43-6 Pad	Wellbore	Northdown 28-0-43-6 A 11H AWB
Slot	Northdown 28-0-43-6 A 11H		

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Northdown 28-0-43-6 A 11H - PBHL	11852.95	-10900.03	3633.51	1054807.61	760787.17	31°43'22.7014"N	103°22'24.6371"W	point
Northdown 28-0-43-6 A 11H - LTP	11853.10	-10813.63	3608.28	1054782.39	760873.56	31°43'23.5492"N	103°22'24.9564"W	point
Northdown 28-0-43-6 A 11H - FTP	11871.23	-837.36	692.11	1051866.32	770849.49	31°45'1.4501"N	103°23'1.8724"W	point
Northdown 28-0-43-6 A 11H - PP	11871.32	-789.38	678.06	1051852.27	770897.47	31°45'1.9210"N	103°23'2.0503"W	point

WELLPATH COMPOSITION - Ref Wellbore: Northdown 28-0-43-6 A 11H AWB Ref Wellpath: Northdown 28-0-43-6 A 11H_awp 174'-22258' Proj: 22279'					
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
25.00	1906.00	OWSG MWD+IFR1+SAG	PHX MWD Surveys 174'-1906' (Imported)	Northdown 28-0-43-6 A 11H AWB	1/21/2024
1906.00	11394.00	Custom OWSG MWD+IFR1+SAG+FDIR (Approximation)	PHX MWD Surveys 2026'-11394' (Imported)	Northdown 28-0-43-6 A 11H AWB	1/24/2024
11394.00	22279.00	Custom OWSG MWD+IFR1+SAG+FDIR (Approximation)	6-3/4" BKR Lucida MWD Surveys 11582'-22258'	Northdown 28-0-43-6 A 11H AWB	1/18/2024



Actual Wellpath Report

Northdown 28-0-43-6 A 11H_awp 174'-22258' Proj: 22279'
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REFERENCE WELLPATH IDENTIFICATION

Operator	Anadarko E&P Onshore, LLC	Well	Northdown 28-0-43-6 A 11H
Field	Phantom (Wolfcamp) - Loving County, TX	API	42-301-66679-00
Facility	Northdown 28-0-43-6 Pad	Wellbore	Northdown 28-0-43-6 A 11H AWB
Slot	Northdown 28-0-43-6 A 11H		

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
174.00	0.590	81.630	174.00	PHX MWD Surveys 174'-1906' (Imported)
2026.00	0.880	300.740	2025.89	PHX MWD Surveys 2026'-11394' (Imported)
11582.00	12.060	175.440	11452.27	6-3/4" BKR Lucida MWD Surveys 11582'-22258'
22279.00	89.870	164.230	11863.01	Projection to TD: 22279.00ft MD

COMMENTS

Wellpath general comments

Well: Northdown 28-0-43-6 A 11H
Field: Phantom (Wolfcamp)
Rig: H&P 266
Location: Loving County, TX
API: 42-301-66679-00
Latitude: 31°45'9.5458"N
Longitude: 103°23'10.1507"W
Rig Floor to MSL: 2884.60 ft
Rig Floor to GL: 25.00 ft
Ground Elevation: 2859.60 ft
Proposed Direction: 161.56°
PBHL: 22,279 ft
Duration: 02/28/2024 – 03/08/2024
FSE's: Remote Ops
SO#: 112142299
PHX MWD Surveys 174'-1906' (Imported)
PHX MWD Surveys 2026'-11394' (Imported)
6-3/4" BKR Lucida MWD Surveys 11582'-22258'
Projection to TD: 22279.00ft MD