



Actual Wellpath Report

No.18H AWP

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15-41395



REFERENCE WELLPATH IDENTIFICATION

Operator	Devon Energy	Slot	No.18H SHL
Area	Eddy County, NM	Well	No.18H
Field	(Apache) Sec 25, T22S, R30E	Wellbore	No.18H AWB
Facility	Apache 25 Fed No.18H & No.19H		

REPORT SETUP INFORMATION

Projection System	NAD83 / TM New Mexico SP, Eastern Zone (3001), US feet	Software System	WellArchitect® 4.0.1
North Reference	Grid	User	Gentbry
Scale	0.999937	Report Generated	10/21/2013 at 9:33:23 AM
Convergence at slot	0.27° East	Database/Source file	MidlandDB/No.18H_AWB.xml

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	697768.40	497749.00	32°22'02.511"N	103°49'36.013"W
Facility Reference Pt			697768.40	497749.00	32°22'02.511"N	103°49'36.013"W
Field Reference Pt			697210.85	494370.02	32°21'29.100"N	103°49'42.700"W

WELLPATH DATUM

Calculation method	Minimum curvature	Rig on No.18H SHL (KB) to Facility Vertical Datum	3396.80ft
Horizontal Reference Pt	Slot	Rig on No.18H SHL (KB) to Mean Sea Level	3396.80ft
Vertical Reference Pt	Rig on No.18H SHL (KB)	Rig on No.18H SHL (KB) to Mud Line at Slot (No.18H SHL)	3396.80ft
MD Reference Pt	Rig on No.18H SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	258.98°



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WELLPATH DATA (195 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
0.00	0.000	207.010	0.00	0.00	0.00	0.00	697768.40	497749.00	32°22'02.511"N	103°49'36.013"W	0.00	
116.78	0.770	207.010	116.78	0.48	-0.70	-0.36	697768.04	497748.30	32°22'02.504"N	103°49'36.018"W	0.66	
210.93	1.010	243.900	210.92	1.67	-1.63	-1.39	697767.01	497747.37	32°22'02.494"N	103°49'36.030"W	0.65	
305.08	0.570	223.820	305.06	2.86	-2.33	-2.46	697765.94	497746.67	32°22'02.488"N	103°49'36.042"W	0.55	
399.23	0.970	239.710	399.20	3.99	-3.07	-3.47	697764.93	497745.93	32°22'02.480"N	103°49'36.054"W	0.48	
493.38	0.950	226.750	493.34	5.41	-4.01	-4.73	697763.67	497744.99	32°22'02.471"N	103°49'36.069"W	0.23	
587.53	1.050	228.520	587.47	6.81	-5.11	-5.94	697762.46	497743.89	32°22'02.460"N	103°49'36.083"W	0.11	
681.68	1.370	240.180	681.60	8.62	-6.24	-7.56	697760.84	497742.76	32°22'02.449"N	103°49'36.102"W	0.43	
775.83	1.470	244.680	775.72	10.85	-7.32	-9.63	697758.77	497741.68	32°22'02.439"N	103°49'36.126"W	0.16	
869.98	1.500	248.020	869.84	13.23	-8.30	-11.87	697756.53	497740.70	32°22'02.429"N	103°49'36.152"W	0.10	
964.13	1.420	244.410	963.96	15.57	-9.26	-14.06	697754.34	497739.74	32°22'02.420"N	103°49'36.178"W	0.13	
1058.28	1.130	239.520	1058.09	17.58	-10.24	-15.91	697752.49	497738.76	32°22'02.410"N	103°49'36.199"W	0.33	
1152.43	1.070	243.450	1152.22	19.30	-11.10	-17.50	697750.90	497737.90	32°22'02.402"N	103°49'36.218"W	0.10	
1246.58	1.010	228.810	1246.35	20.86	-12.04	-18.91	697749.49	497736.96	32°22'02.392"N	103°49'36.235"W	0.29	
1340.73	0.990	224.950	1340.49	22.26	-13.16	-20.11	697748.29	497735.84	32°22'02.381"N	103°49'36.249"W	0.07	
1434.88	0.940	227.550	1434.62	23.59	-14.26	-21.26	697747.15	497734.74	32°22'02.370"N	103°49'36.262"W	0.07	
1529.03	0.820	206.770	1528.76	24.66	-15.38	-22.13	697746.27	497733.62	32°22'02.359"N	103°49'36.272"W	0.36	
1623.18	0.750	193.890	1622.91	25.33	-16.58	-22.58	697745.82	497732.42	32°22'02.348"N	103°49'36.278"W	0.20	
1717.33	0.790	194.420	1717.05	25.87	-17.81	-22.89	697745.51	497731.19	32°22'02.335"N	103°49'36.281"W	0.04	
1811.48	0.930	184.060	1811.19	26.35	-19.20	-23.11	697745.30	497729.80	32°22'02.322"N	103°49'36.284"W	0.22	
1905.63	0.810	186.210	1905.33	26.74	-20.62	-23.23	697745.17	497728.38	32°22'02.308"N	103°49'36.285"W	0.13	
1999.78	0.770	173.400	1999.47	26.99	-21.91	-23.23	697745.17	497727.09	32°22'02.295"N	103°49'36.285"W	0.19	
2093.93	1.160	166.930	2093.60	27.01	-23.47	-22.94	697745.46	497725.53	32°22'02.279"N	103°49'36.282"W	0.43	
2188.08	0.830	169.010	2187.74	26.97	-25.07	-22.60	697745.80	497723.93	32°22'02.264"N	103°49'36.278"W	0.35	
2282.23	1.000	155.580	2281.88	26.78	-26.49	-22.13	697746.27	497722.52	32°22'02.249"N	103°49'36.273"W	0.29	
2376.38	0.920	162.220	2376.01	26.50	-27.95	-21.56	697746.84	497721.05	32°22'02.235"N	103°49'36.266"W	0.15	
2470.53	0.870	165.100	2470.15	26.36	-29.36	-21.14	697747.26	497719.64	32°22'02.221"N	103°49'36.261"W	0.07	
2564.68	0.800	167.060	2564.29	26.29	-30.70	-20.81	697747.59	497718.31	32°22'02.208"N	103°49'36.258"W	0.08	
2658.83	0.450	186.090	2658.44	26.38	-31.70	-20.70	697747.70	497717.30	32°22'02.198"N	103°49'36.256"W	0.43	
2752.98	0.640	200.910	2752.58	26.77	-32.56	-20.93	697747.47	497716.44	32°22'02.189"N	103°49'36.259"W	0.25	
2847.13	0.520	207.020	2846.73	27.31	-33.43	-21.31	697747.09	497715.57	32°22'02.181"N	103°49'36.264"W	0.14	
2941.28	0.430	237.270	2940.87	27.90	-34.01	-21.80	697746.60	497715.00	32°22'02.175"N	103°49'36.269"W	0.28	
3035.43	0.650	127.520	3035.02	27.88	-34.52	-21.68	697746.72	497714.48	32°22'02.170"N	103°49'36.268"W	0.95	
3129.58	1.420	133.630	3129.16	26.85	-35.65	-20.41	697747.99	497713.35	32°22'02.159"N	103°49'36.253"W	0.83	
3223.73	1.870	134.100	3223.27	25.29	-37.53	-18.46	697749.94	497711.48	32°22'02.140"N	103°49'36.231"W	0.48	
3317.88	1.600	139.420	3317.37	23.77	-39.59	-16.50	697751.90	497709.41	32°22'02.120"N	103°49'36.208"W	0.33	
3412.03	1.770	142.290	3411.48	22.46	-41.74	-14.76	697753.64	497707.26	32°22'02.098"N	103°49'36.188"W	0.20	
3506.18	2.340	140.650	3505.57	20.90	-44.38	-12.65	697755.75	497704.62	32°22'02.072"N	103°49'36.163"W	0.61	
3600.33	3.160	133.600	3599.61	18.48	-47.66	-9.55	697758.85	497701.35	32°22'02.039"N	103°49'36.127"W	0.94	
3694.48	3.090	136.910	3693.62	15.63	-51.30	-5.94	697762.46	497697.71	32°22'02.003"N	103°49'36.085"W	0.21	
3788.63	2.780	149.580	3787.65	13.53	-55.12	-3.05	697765.35	497693.88	32°22'01.965"N	103°49'36.052"W	0.76	
3882.78	2.140	143.400	3881.71	12.01	-58.50	-0.85	697767.55	497690.50	32°22'01.932"N	103°49'36.026"W	0.73	
3976.93	2.050	145.320	3975.80	10.58	-61.30	1.16	697769.56	497687.71	32°22'01.904"N	103°49'36.003"W	0.12	
4071.08	2.230	144.830	4069.88	9.15	-64.18	3.17	697771.57	497684.83	32°22'01.875"N	103°49'35.980"W	0.19	
4165.23	1.930	137.860	4163.97	7.58	-66.85	5.29	697773.69	497682.15	32°22'01.849"N	103°49'35.955"W	0.42	



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WELLPATH DATA (195 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
4259.38	1.990	139.200	4258.07	5.95	-69.26	7.42	697775.82	497679.74	32°22'01.825"N	103°49'35.931"W	0.08	
4353.53	1.970	144.970	4352.16	4.48	-71.83	9.42	697777.82	497677.18	32°22'01.799"N	103°49'35.907"W	0.21	
4447.68	1.530	164.840	4446.27	3.73	-74.37	10.68	697779.08	497674.64	32°22'01.774"N	103°49'35.893"W	0.79	
4541.83	1.740	193.910	4540.38	4.24	-76.97	10.66	697779.06	497672.04	32°22'01.748"N	103°49'35.893"W	0.90	
4635.98	1.610	167.070	4634.49	4.80	-79.64	10.62	697779.02	497669.36	32°22'01.722"N	103°49'35.894"W	0.84	
4730.13	1.230	156.070	4728.61	4.53	-81.86	11.32	697779.72	497667.15	32°22'01.700"N	103°49'35.886"W	0.49	
4824.28	1.320	153.480	4822.74	4.02	-83.75	12.22	697780.62	497665.26	32°22'01.681"N	103°49'35.876"W	0.11	
4918.43	0.850	164.310	4916.87	3.67	-85.39	12.89	697781.29	497663.61	32°22'01.665"N	103°49'35.868"W	0.54	
5012.58	1.180	151.390	5011.01	3.32	-86.92	13.54	697781.94	497662.09	32°22'01.650"N	103°49'35.860"W	0.42	
5106.73	0.740	183.540	5105.15	3.18	-88.37	13.97	697782.37	497660.63	32°22'01.635"N	103°49'35.855"W	0.72	
5200.88	0.990	173.180	5199.28	3.39	-89.79	14.03	697782.43	497659.22	32°22'01.621"N	103°49'35.855"W	0.31	
5295.03	0.870	159.770	5293.42	3.34	-91.27	14.37	697782.77	497657.74	32°22'01.607"N	103°49'35.851"W	0.26	
5389.18	0.640	194.180	5387.56	3.45	-92.45	14.49	697782.89	497656.56	32°22'01.595"N	103°49'35.850"W	0.53	
5483.33	0.630	189.870	5481.71	3.85	-93.47	14.27	697782.67	497655.54	32°22'01.585"N	103°49'35.852"W	0.05	
5577.48	0.680	192.570	5575.85	4.26	-94.52	14.06	697782.46	497654.48	32°22'01.575"N	103°49'35.855"W	0.06	
5671.63	0.710	199.110	5670.00	4.78	-95.62	13.75	697782.15	497653.39	32°22'01.564"N	103°49'35.858"W	0.09	
5765.78	0.700	216.690	5764.14	5.50	-96.63	13.22	697781.61	497652.38	32°22'01.554"N	103°49'35.865"W	0.23	
5859.93	0.880	188.550	5858.28	6.16	-97.81	12.76	697781.16	497651.20	32°22'01.542"N	103°49'35.870"W	0.45	
5954.08	0.990	191.310	5952.42	6.72	-99.32	12.50	697780.90	497649.69	32°22'01.527"N	103°49'35.873"W	0.13	
6048.23	1.050	200.890	6046.55	7.48	-100.92	12.03	697780.43	497648.08	32°22'01.511"N	103°49'35.879"W	0.19	
6142.38	1.460	183.580	6140.68	8.24	-102.93	11.65	697780.05	497646.08	32°22'01.492"N	103°49'35.883"W	0.59	
6236.53	1.460	188.170	6234.80	8.94	-105.31	11.40	697779.80	497643.70	32°22'01.468"N	103°49'35.886"W	0.12	
6330.68	1.330	189.040	6328.92	9.70	-107.58	11.06	697779.46	497641.43	32°22'01.446"N	103°49'35.890"W	0.14	
6424.83	1.230	196.490	6423.05	10.55	-109.62	10.60	697779.00	497639.38	32°22'01.425"N	103°49'35.896"W	0.21	
6518.98	1.170	214.660	6517.18	11.70	-111.38	9.77	697778.17	497637.62	32°22'01.408"N	103°49'35.906"W	0.41	
6613.13	1.150	243.820	6611.31	13.30	-112.59	8.37	697776.77	497636.42	32°22'01.396"N	103°49'35.922"W	0.62	
6707.28	1.300	251.420	6705.44	15.27	-113.35	6.51	697774.91	497635.66	32°22'01.389"N	103°49'35.944"W	0.23	
6801.43	1.160	237.300	6799.57	17.21	-114.20	4.70	697773.10	497634.80	32°22'01.380"N	103°49'35.965"W	0.35	
6895.58	1.210	233.460	6893.70	19.00	-115.31	3.10	697771.50	497633.70	32°22'01.369"N	103°49'35.984"W	0.10	
6989.73	1.240	220.540	6987.83	20.69	-116.68	1.64	697770.04	497632.33	32°22'01.356"N	103°49'36.001"W	0.29	
7083.88	1.380	209.600	7081.95	22.23	-118.44	0.42	697768.82	497630.57	32°22'01.339"N	103°49'36.015"W	0.30	
7178.03	1.430	197.160	7176.07	23.52	-120.54	-0.49	697767.91	497628.46	32°22'01.318"N	103°49'36.026"W	0.33	
7272.18	1.310	193.770	7270.20	24.53	-122.71	-1.09	697767.31	497626.30	32°22'01.296"N	103°49'36.033"W	0.15	
7366.33	1.520	190.640	7364.32	25.44	-124.98	-1.58	697766.82	497624.02	32°22'01.274"N	103°49'36.039"W	0.24	
7460.48	1.490	192.560	7458.43	26.39	-127.41	-2.08	697766.32	497621.60	32°22'01.250"N	103°49'36.045"W	0.06	
7554.63	1.400	200.290	7552.55	27.48	-129.68	-2.74	697765.66	497619.33	32°22'01.228"N	103°49'36.052"W	0.23	
7648.78	1.740	202.490	7646.67	28.86	-132.08	-3.69	697764.71	497616.93	32°22'01.204"N	103°49'36.064"W	0.37	
7742.93	1.540	194.570	7740.78	30.20	-134.62	-4.55	697763.85	497614.38	32°22'01.179"N	103°49'36.074"W	0.32	
7837.08	4.670	292.460	7834.82	33.94	-134.38	-8.42	697759.98	497614.62	32°22'01.181"N	103°49'36.119"W	5.43	
7931.23	10.230	309.360	7928.15	42.48	-127.61	-18.43	697749.97	497621.40	32°22'01.249"N	103°49'36.235"W	6.29	
8025.38	8.000	308.050	8021.10	52.11	-118.27	-30.06	697738.35	497630.74	32°22'01.342"N	103°49'36.370"W	2.38	
8119.53	6.340	301.480	8114.52	60.23	-111.52	-39.65	697728.75	497637.49	32°22'01.409"N	103°49'36.482"W	1.96	
8213.68	5.290	291.120	8208.18	67.74	-107.24	-48.13	697720.27	497641.77	32°22'01.452"N	103°49'36.580"W	1.57	
8307.83	4.050	286.990	8302.02	74.35	-104.70	-55.36	697713.04	497644.30	32°22'01.477"N	103°49'36.665"W	1.36	
8401.98	3.750	282.550	8395.95	80.11	-103.06	-61.55	697706.86	497645.94	32°22'01.494"N	103°49'36.737"W	0.45	



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Facility	Apache 25 Fed No.18H & No.19H		

WELLPATH DATA (195 stations)

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8496.13	3.350	286.620	8489.92	85.37	-101.61	-67.19	697701.22	497647.40	32°22'01.508"N	103°49'36.802"W	0.50	
8590.28	3.210	281.550	8583.92	90.24	-100.29	-72.41	697696.00	497648.71	32°22'01.522"N	103°49'36.863"W	0.34	
8684.43	3.100	284.490	8677.92	94.97	-99.13	-77.45	697690.95	497649.88	32°22'01.533"N	103°49'36.922"W	0.21	
8778.58	3.900	290.290	8771.90	100.00	-97.38	-82.92	697685.48	497651.63	32°22'01.551"N	103°49'36.985"W	0.93	
8872.73	3.730	285.150	8865.84	105.49	-95.47	-88.88	697679.53	497653.54	32°22'01.570"N	103°49'37.055"W	0.41	
8966.88	3.360	277.310	8959.81	110.86	-94.32	-94.57	697673.83	497654.69	32°22'01.582"N	103°49'37.121"W	0.65	
9061.03	2.830	278.160	9053.82	115.67	-93.64	-99.61	697668.80	497655.37	32°22'01.589"N	103°49'37.180"W	0.57	
9155.18	2.000	269.430	9147.89	119.48	-93.32	-103.55	697664.85	497655.68	32°22'01.592"N	103°49'37.226"W	0.96	
9249.33	2.160	244.530	9241.98	122.81	-94.10	-106.80	697661.61	497654.90	32°22'01.584"N	103°49'37.264"W	0.97	
9343.48	1.730	242.570	9336.07	125.90	-95.52	-109.66	697658.75	497653.49	32°22'01.571"N	103°49'37.297"W	0.46	
9437.63	2.390	236.030	9430.16	129.07	-97.27	-112.55	697655.86	497651.73	32°22'01.553"N	103°49'37.331"W	0.74	
9531.78	2.400	234.440	9524.23	132.67	-99.52	-115.78	697652.63	497649.49	32°22'01.531"N	103°49'37.369"W	0.07	
9625.93	2.060	233.380	9618.31	135.99	-101.67	-118.74	697649.66	497647.33	32°22'01.510"N	103°49'37.403"W	0.36	
9720.08	1.670	217.420	9712.41	138.54	-103.77	-120.94	697647.47	497645.24	32°22'01.489"N	103°49'37.429"W	0.69	
9814.23	0.880	176.610	9806.54	139.66	-105.58	-121.73	697646.68	497643.42	32°22'01.472"N	103°49'37.438"W	1.23	
9908.38	0.830	152.460	9900.68	139.56	-106.91	-121.37	697647.04	497642.10	32°22'01.458"N	103°49'37.434"W	0.38	
10002.53	1.330	169.360	9994.81	139.38	-108.59	-120.85	697647.56	497640.42	32°22'01.442"N	103°49'37.428"W	0.62	
10096.68	2.400	174.440	10088.91	139.57	-111.62	-120.46	697647.95	497637.38	32°22'01.412"N	103°49'37.424"W	1.15	
10155.00	2.840	198.760	10147.17	140.41	-114.21	-120.81	697647.60	497634.80	32°22'01.386"N	103°49'37.428"W	2.03	
10196.00	2.720	209.980	10188.12	141.55	-116.01	-121.62	697646.79	497633.00	32°22'01.368"N	103°49'37.438"W	1.36	
10228.00	2.920	218.560	10220.08	142.67	-117.31	-122.51	697645.90	497631.70	32°22'01.356"N	103°49'37.448"W	1.46	
10259.00	3.140	213.120	10251.04	143.86	-118.63	-123.46	697644.95	497630.37	32°22'01.342"N	103°49'37.459"W	1.17	
10290.00	6.010	212.320	10281.94	145.56	-120.72	-124.79	697643.61	497628.29	32°22'01.322"N	103°49'37.475"W	9.26	
10321.00	8.690	212.070	10312.68	148.28	-124.07	-126.91	697641.50	497624.93	32°22'01.289"N	103°49'37.500"W	8.65	
10353.00	11.320	216.210	10344.19	152.24	-128.66	-130.04	697638.36	497620.35	32°22'01.244"N	103°49'37.537"W	8.52	
10385.00	13.350	218.180	10375.45	157.34	-134.10	-134.18	697634.22	497614.91	32°22'01.190"N	103°49'37.585"W	6.48	
10416.00	15.100	219.180	10405.50	163.15	-140.04	-138.95	697629.46	497608.97	32°22'01.131"N	103°49'37.641"W	5.70	
10448.00	18.160	216.410	10436.16	170.03	-147.29	-144.54	697623.87	497601.72	32°22'01.060"N	103°49'37.707"W	9.88	
10479.00	20.990	214.480	10465.36	177.55	-155.75	-150.55	697617.86	497593.26	32°22'00.976"N	103°49'37.777"W	9.36	
10510.00	23.370	214.370	10494.07	185.88	-165.41	-157.17	697611.24	497583.61	32°22'00.881"N	103°49'37.855"W	7.68	
10541.00	25.250	212.270	10522.32	194.80	-176.07	-164.17	697604.24	497572.94	32°22'00.776"N	103°49'37.937"W	6.67	
10573.00	27.260	211.430	10551.01	204.42	-188.10	-171.64	697596.77	497560.91	32°22'00.657"N	103°49'38.025"W	6.39	
10604.00	27.810	213.250	10578.50	214.26	-200.20	-179.30	697589.11	497548.81	32°22'00.538"N	103°49'38.115"W	3.24	
10636.00	30.180	214.580	10606.49	225.22	-213.07	-187.96	697580.45	497535.94	32°22'00.411"N	103°49'38.217"W	7.67	
10667.00	32.180	218.060	10633.01	237.03	-225.99	-197.48	697570.94	497523.03	32°22'00.284"N	103°49'38.328"W	8.68	
10699.00	35.000	215.350	10659.67	250.11	-240.19	-208.04	697560.37	497508.83	32°22'00.144"N	103°49'38.452"W	9.98	
10730.00	39.240	212.790	10684.38	263.34	-255.69	-218.50	697549.91	497493.33	32°21'59.991"N	103°49'38.575"W	14.55	
10761.00	42.690	212.290	10707.79	277.34	-272.82	-229.43	697538.99	497476.20	32°21'59.822"N	103°49'38.703"W	11.18	
10793.00	44.890	211.640	10730.89	292.44	-291.61	-241.15	697527.27	497457.41	32°21'59.636"N	103°49'38.841"W	7.02	
10824.00	48.500	210.210	10752.15	307.51	-310.96	-252.73	697515.68	497438.06	32°21'59.445"N	103°49'38.977"W	12.12	
10856.00	52.110	209.730	10772.58	323.65	-332.29	-265.03	697503.39	497416.73	32°21'59.235"N	103°49'39.122"W	11.34	
10887.00	54.580	210.260	10791.09	339.97	-353.82	-277.46	697490.96	497395.20	32°21'59.023"N	103°49'39.268"W	8.08	
10918.00	57.710	211.780	10808.36	357.21	-375.88	-290.73	697477.69	497373.15	32°21'58.805"N	103°49'39.424"W	10.89	
10950.00	58.800	214.710	10825.19	376.20	-398.63	-305.65	697462.77	497350.40	32°21'58.580"N	103°49'39.599"W	8.50	
10981.00	60.490	217.770	10840.86	395.85	-420.20	-321.47	697446.95	497328.83	32°21'58.368"N	103°49'39.784"W	10.11	



Actual Wellpath Report

No.18H AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	Devon Energy	Slot	No.18H SHL
Area	Eddy County, NM	Well	No.18H
Field	(Apache) Sec 25, T22S, R30E	Wellbore	No.18H AWP
Facility	Apache 25 Fed No.18H & No.19H		

WELLPATH DATA (195 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
11013.00	62.640	221.150	10856.10	417.56	-441.91	-339.35	697429.07	497307.12	32°21'58.154"N	103°49'39.994"W	11.46	
11044.00	64.160	223.460	10869.98	439.79	-462.41	-358.01	697410.41	497286.62	32°21'57.952"N	103°49'40.213"W	8.27	
11056.00	65.030	224.140	10875.13	448.65	-470.23	-365.51	697402.91	497278.80	32°21'57.875"N	103°49'40.301"W	8.87	
11130.00	66.390	228.850	10905.59	505.53	-516.63	-414.42	697354.00	497232.40	32°21'57.418"N	103°49'40.874"W	6.09	
11161.00	67.410	233.210	10917.75	530.71	-534.56	-436.59	697331.84	497214.48	32°21'57.242"N	103°49'41.133"W	13.35	
11194.00	68.530	237.560	10930.14	558.73	-551.93	-461.76	697306.67	497197.11	32°21'57.071"N	103°49'41.427"W	12.68	
11225.00	69.790	240.980	10941.17	586.00	-566.72	-486.66	697281.77	497182.31	32°21'56.926"N	103°49'41.718"W	11.08	
11257.00	72.140	244.370	10951.61	615.03	-580.60	-513.53	697254.90	497168.44	32°21'56.790"N	103°49'42.032"W	12.42	
11289.00	74.680	246.830	10960.74	644.86	-593.26	-541.46	697226.98	497155.77	32°21'56.666"N	103°49'42.359"W	10.83	
11320.00	77.600	249.890	10968.17	674.44	-604.36	-569.43	697199.01	497144.68	32°21'56.557"N	103°49'42.685"W	13.44	
11352.00	80.860	252.030	10974.15	705.56	-614.61	-599.14	697169.30	497134.43	32°21'56.457"N	103°49'43.032"W	12.12	
11383.00	83.850	254.280	10978.27	736.12	-623.51	-628.54	697139.90	497125.53	32°21'56.370"N	103°49'43.376"W	12.03	
11415.00	85.030	255.910	10981.37	767.90	-631.70	-659.32	697109.13	497117.34	32°21'56.291"N	103°49'43.735"W	6.27	
11446.00	86.850	257.490	10983.57	798.79	-638.81	-689.41	697079.04	497110.23	32°21'56.222"N	103°49'44.086"W	7.77	
11478.00	89.440	259.680	10984.60	830.77	-645.14	-720.75	697047.69	497103.90	32°21'56.161"N	103°49'44.452"W	10.60	
11541.00	91.020	262.530	10984.35	893.72	-654.88	-782.99	696985.46	497094.16	32°21'56.067"N	103°49'45.178"W	5.17	
11573.00	91.820	264.460	10983.56	925.61	-658.50	-814.77	696953.68	497090.54	32°21'56.033"N	103°49'45.549"W	6.53	
11636.00	91.940	264.810	10981.49	988.27	-664.39	-877.46	696891.00	497084.65	32°21'55.978"N	103°49'46.280"W	0.59	
11731.00	91.760	265.600	10978.43	1082.66	-672.33	-972.08	696796.39	497076.72	32°21'55.903"N	103°49'47.384"W	0.85	
11826.00	91.200	267.300	10975.97	1176.81	-678.21	-1066.86	696701.61	497070.84	32°21'55.850"N	103°49'48.489"W	1.88	
11921.00	91.730	267.810	10973.54	1270.72	-682.26	-1161.74	696606.73	497066.79	32°21'55.814"N	103°49'49.595"W	0.77	
12016.00	90.890	267.850	10971.37	1364.57	-685.85	-1256.65	696511.83	497063.19	32°21'55.783"N	103°49'50.702"W	0.89	
12111.00	90.890	268.650	10969.90	1458.31	-688.76	-1351.59	696416.90	497060.29	32°21'55.758"N	103°49'51.809"W	0.84	
12205.00	91.020	268.340	10968.33	1551.01	-691.22	-1445.55	696322.95	497057.82	32°21'55.738"N	103°49'52.905"W	0.36	
12300.00	91.260	267.810	10966.44	1644.79	-694.41	-1540.47	696228.03	497054.63	32°21'55.711"N	103°49'54.011"W	0.61	
12395.00	90.000	267.160	10965.39	1738.74	-698.58	-1635.37	696133.13	497050.46	32°21'55.674"N	103°49'55.118"W	1.49	
12490.00	90.460	267.750	10965.01	1832.70	-702.80	-1730.28	696038.23	497046.24	32°21'55.637"N	103°49'56.225"W	0.79	
12585.00	88.740	266.240	10965.68	1926.77	-707.78	-1825.14	695943.38	497041.27	32°21'55.592"N	103°49'57.331"W	2.41	
12680.00	88.950	266.400	10967.59	2020.97	-713.88	-1919.92	695848.60	497035.17	32°21'55.536"N	103°49'58.436"W	0.28	
12775.00	88.770	265.770	10969.48	2115.22	-720.36	-2014.68	695753.85	497028.68	32°21'55.476"N	103°49'59.542"W	0.69	
12869.00	89.630	265.500	10970.79	2208.58	-727.52	-2108.40	695660.14	497021.53	32°21'55.410"N	103°50'00.635"W	0.96	
12964.00	89.910	265.440	10971.17	2302.97	-735.02	-2203.10	695565.44	497014.03	32°21'55.340"N	103°50'01.739"W	0.30	
13059.00	90.060	265.250	10971.20	2397.38	-742.73	-2297.79	695470.76	497006.32	32°21'55.268"N	103°50'02.843"W	0.25	
13154.00	90.800	265.590	10970.49	2491.78	-750.31	-2392.48	695376.07	496998.73	32°21'55.198"N	103°50'03.948"W	0.86	
13249.00	91.670	265.600	10968.44	2586.13	-757.61	-2487.18	695281.38	496991.44	32°21'55.130"N	103°50'05.052"W	0.92	
13344.00	91.750	265.080	10965.60	2680.50	-765.32	-2581.82	695186.75	496983.73	32°21'55.058"N	103°50'06.156"W	0.55	
13438.00	92.220	265.470	10962.35	2773.88	-773.06	-2675.45	695093.13	496975.99	32°21'54.985"N	103°50'07.248"W	0.65	
13483.00	91.200	266.230	10961.01	2818.53	-776.32	-2720.31	695048.27	496972.73	32°21'54.955"N	103°50'07.771"W	2.83	
13533.00	91.390	266.190	10959.88	2868.12	-779.62	-2770.19	694998.39	496969.43	32°21'54.925"N	103°50'08.353"W	0.39	
13628.00	90.370	265.620	10958.42	2962.42	-786.40	-2864.93	694903.66	496962.65	32°21'54.862"N	103°50'09.458"W	1.23	
13723.00	91.390	265.880	10956.96	3056.74	-793.44	-2959.66	694808.94	496955.61	32°21'54.797"N	103°50'10.563"W	1.11	
13818.00	91.290	265.130	10954.74	3151.10	-800.89	-3054.34	694714.26	496948.17	32°21'54.728"N	103°50'11.667"W	0.80	
13912.00	91.670	263.870	10952.31	3244.63	-809.89	-3147.87	694620.73	496939.16	32°21'54.643"N	103°50'12.758"W	1.40	
14007.00	91.200	263.370	10949.93	3339.29	-820.45	-3242.25	694526.36	496928.61	32°21'54.543"N	103°50'13.859"W	0.72	
14100.00	90.950	263.120	10948.18	3432.02	-831.38	-3334.59	694434.03	496917.67	32°21'54.439"N	103°50'14.936"W	0.38	



Actual Wellpath Report

No.18H AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	Devon Energy	Slot	No.18H SHL
Area	Eddy County, NM	Well	No.18H
Field	(Apache) Sec 25, T22S, R30E	Wellbore	No.18H AWB
Facility	Apache 25 Fed No.18H & No.19H		

WELLPATH DATA (195 stations)

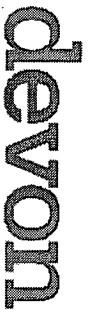
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
14195.00	90.770	264.420	10946.76	3526.67	-841.69	-3429.02	694339.61	496907.36	32°21'54.341"N	103°50'16.037"W	1.38	
14289.00	90.280	265.110	10945.90	3620.19	-850.27	-3522.62	694246.01	496898.79	32°21'54.260"N	103°50'17.129"W	0.90	
14384.00	90.220	265.350	10945.48	3714.62	-858.17	-3617.29	694151.34	496890.89	32°21'54.187"N	103°50'18.233"W	0.26	
14479.00	90.520	266.520	10944.87	3808.92	-864.90	-3712.05	694056.59	496884.15	32°21'54.124"N	103°50'19.338"W	1.27	
14574.00	90.740	266.860	10943.82	3903.06	-870.39	-3806.88	693961.76	496878.67	32°21'54.074"N	103°50'20.444"W	0.43	
14669.00	91.800	266.470	10941.72	3997.18	-875.91	-3901.70	693866.96	496873.15	32°21'54.024"N	103°50'21.550"W	1.19	
14764.00	91.390	266.340	10939.07	4091.35	-881.87	-3996.47	693772.19	496867.19	32°21'53.969"N	103°50'22.655"W	0.45	
14859.00	90.740	266.580	10937.31	4185.52	-887.73	-4091.28	693677.39	496861.33	32°21'53.916"N	103°50'23.761"W	0.73	
14955.00	88.270	267.340	10938.14	4280.58	-892.82	-4187.13	693581.54	496856.24	32°21'53.870"N	103°50'24.879"W	2.69	
15048.00	87.880	267.320	10941.26	4372.54	-897.15	-4279.97	693488.70	496851.91	32°21'53.831"N	103°50'25.961"W	0.42	
15143.00	87.910	267.050	10944.75	4466.51	-901.81	-4374.80	693393.89	496847.25	32°21'53.789"N	103°50'27.067"W	0.29	
15238.00	88.120	267.230	10948.04	4560.49	-906.55	-4469.62	693299.07	496842.51	32°21'53.747"N	103°50'28.173"W	0.29	
15333.00	88.550	267.160	10950.80	4654.48	-911.20	-4564.47	693204.23	496837.86	32°21'53.705"N	103°50'29.279"W	0.46	
15388.00	88.610	266.950	10952.16	4708.91	-914.02	-4619.38	693149.32	496835.04	32°21'53.680"N	103°50'29.919"W	0.40	
15461.00	88.610	266.950	10953.94	4781.19	-917.91	-4692.25	693076.45	496831.15	32°21'53.645"N	103°50'30.769"W	0.00	Proj to Bit

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
No.18H PBHL		10950.00	-913.76	-4692.90	693075.80	496835.30	32°21'53.686"N	103°50'30.776"W	point

WELLPATH COMPOSITION - Ref Wellbore: No.18H AWB Ref Wellpath: No.18H AWP

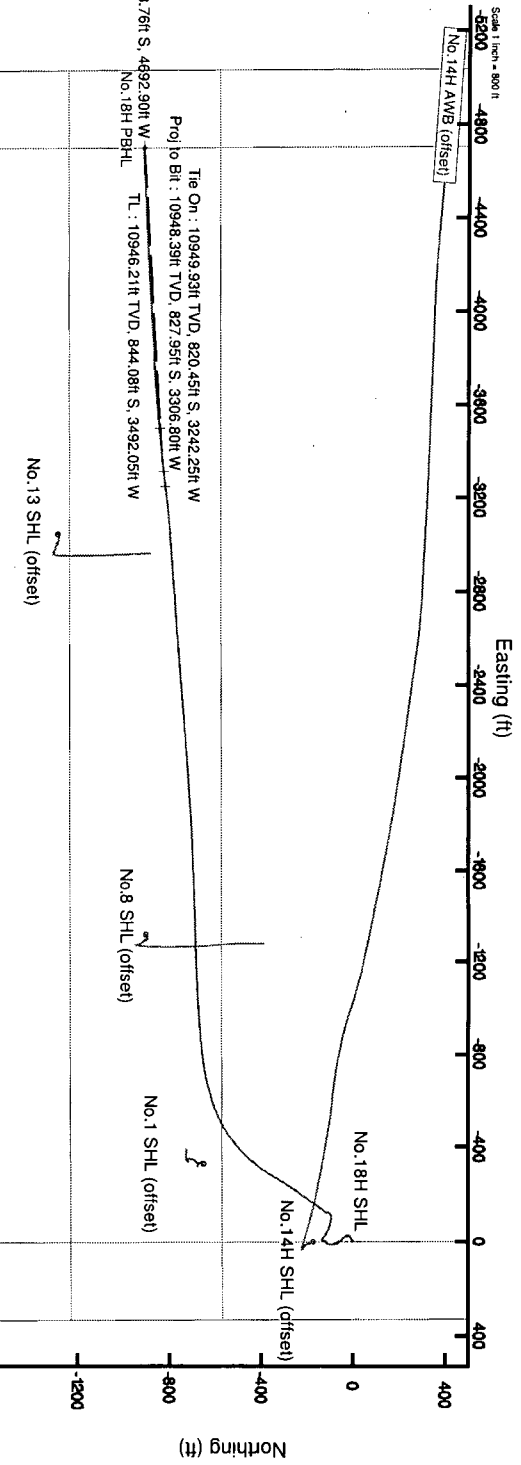
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	10096.68	Generic gyro - northseeking (Standard)	VES Gyro <116.78-10096.68>	No.18H AWB
10096.68	15388.00	NaviTrak (Standard)	BHI MWD NaviTrak <10155-XXXX>	No.18H AWB
15388.00	15461.00	Blind Drilling (std)	Projection to bit	No.18H AWB



Devon Energy

Location: Eddy County, NM
Field: (Apache) Sec 25, T22S, R30E
Facility: Apache 25 Fed No.18H & No.19H

Slot: No.18H SHL
Well: No.18H
Wellbore: No.18H PWB

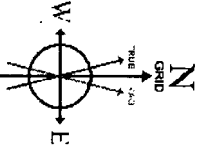


Well Profile Data

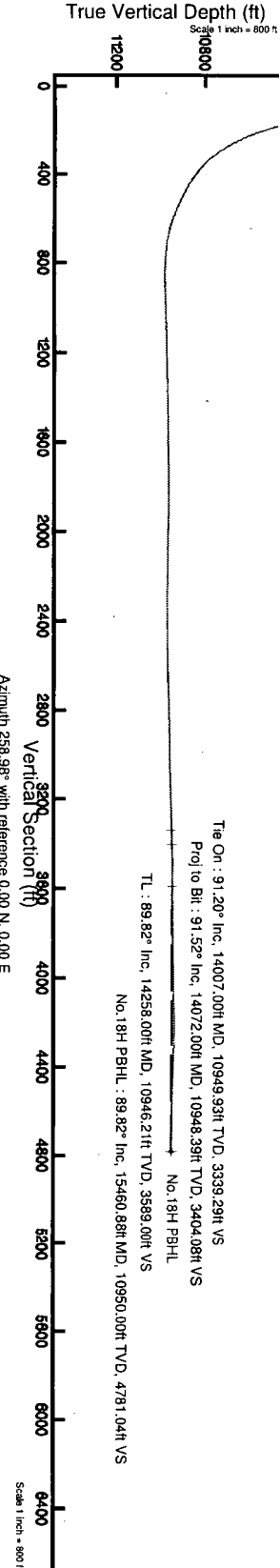
Design Comment	MD (ft)	Inc (°)	Az (°)	TYD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	14007.00	91.200	263.370	10949.39	-820.45	-3242.25	0.00	3339.29
Proj to Bit	14072.00	91.520	263.370	10948.39	-827.95	-3306.80	0.49	3404.08
TL	14258.00	89.820	266.679	10946.21	-844.08	-3492.05	2.00	3589.00
No.18H PBHL	15460.88	89.820	266.679	10950.00	-913.76	-4692.90	0.00	4781.04

Plot reference webpath is Rev-E.0

True vertical depths are referenced to Rig on No.18H SHL (KB)	GMS System: NAD83 / TM New Mexico SP, Eastern Zone (G001), US feet
Measured depths are referenced to Rig on No.18H SHL (KB)	North Reference: Grid north
Rig on No.18H SHL (KB) to Mean Sea Level: 3396.8 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: No.18H SHL) 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: genby on 10/13/2013



BGGM (1945.0 to 2015.0) Dip: 60.21° Field: 48428.6 nT
Magnetic North is 7.54 degrees East of True North (at 10/7/2013)
Grid North is 0.27 degrees East of True North
To correct azimuth from True to Grid subtract 0.27 degrees
To correct azimuth from Magnetic to Grid add 7.27 degrees



Azimuth 258.98° with reference 0.00 N, 0.00 E

Rev-E.0