

15-40828



Actual Wellpath Report

No.19H AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	Devon Energy	Slot	No.19H SHL
Area	Eddy County, NM	Well	No.19H
Field	(Apache) Sec 25, T22S, R30E	Wellbore	No.19H 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® 4.0.0
North Reference	Grid	User	Richjoh
Scale	0.999937	Report Generated	23/Nov/2013 at 23:26
Convergence at slot	0.27° East	Database/Source file	WellArchitectDB/No.19H_AWB.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	50.20	-0.10	697768.30	497799.20	32°22'03.007"N	103°49'36.012"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.19H SHL (KB) to Facility Vertical Datum	3397.20ft
Horizontal Reference Pt	Slot	Rig on No.19H SHL (KB) to Mean Sea Level	3397.20ft
Vertical Reference Pt	Rig on No.19H SHL (KB)	Rig on No.19H SHL (KB) to Mud Line at Slot (No.19H SHL)	3397.20ft
MD Reference Pt	Rig on No.19H SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	274.00°



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WELLPATH DATA (166 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]
0.00	0.000	194.930	0.00	0.00	0.00	0.00	0.00
45.90	0.120	194.930	45.90	0.01	-0.05	-0.01	0.26
134.70	0.320	206.070	134.70	0.12	-0.36	-0.15	0.23
222.00	0.420	204.420	222.00	0.32	-0.87	-0.38	0.12
309.20	0.530	201.550	309.19	0.56	-1.54	-0.67	0.13
402.70	0.690	200.900	402.69	0.85	-2.46	-1.02	0.17
463.90	0.810	198.050	463.88	1.06	-3.22	-1.29	0.21
626.00	1.230	192.210	625.96	1.59	-6.01	-2.01	0.27
657.00	1.080	205.020	656.95	1.74	-6.60	-2.21	0.96
749.00	1.140	188.120	748.93	2.12	-8.29	-2.70	0.36
842.00	1.110	184.960	841.92	2.20	-10.10	-2.91	0.07
937.00	0.960	192.550	936.90	2.33	-11.80	-3.16	0.21
1031.00	1.000	188.630	1030.89	2.52	-13.38	-3.46	0.08
1126.00	1.070	195.890	1125.87	2.77	-15.05	-3.83	0.16
1220.00	1.130	194.000	1219.85	3.11	-16.79	-4.29	0.07
1315.00	0.940	187.520	1314.84	3.32	-18.47	-4.62	0.23
1409.00	0.740	185.810	1408.83	3.38	-19.84	-4.78	0.21
1504.00	0.510	167.360	1503.82	3.28	-20.87	-4.75	0.32
1598.00	0.590	175.690	1597.82	3.09	-21.76	-4.62	0.12
1692.00	0.530	181.610	1691.81	3.01	-22.67	-4.60	0.09
1787.00	0.470	179.430	1786.81	2.96	-23.50	-4.61	0.07
1880.00	0.450	196.130	1879.81	3.00	-24.24	-4.70	0.15
1974.00	0.400	175.030	1973.81	3.03	-24.92	-4.78	0.17
2068.00	0.510	192.010	2067.80	3.04	-25.65	-4.84	0.18
2162.00	0.510	149.190	2161.80	2.86	-26.42	-4.71	0.40
2256.00	0.350	151.930	2255.80	2.46	-27.03	-4.36	0.17
2350.00	0.490	142.960	2349.79	2.05	-27.61	-3.98	0.16
2444.00	0.330	170.890	2443.79	1.72	-28.20	-3.70	0.27
2538.00	0.350	173.580	2537.79	1.61	-28.75	-3.62	0.03
2632.00	0.190	144.080	2631.79	1.46	-29.16	-3.50	0.22
2726.00	0.060	187.800	2725.79	1.36	-29.34	-3.42	0.16
2820.00	0.380	225.630	2819.79	1.57	-29.60	-3.64	0.36
2914.00	0.250	220.920	2913.79	1.90	-29.97	-4.00	0.14
3008.00	0.310	189.140	3007.79	2.05	-30.38	-4.18	0.17
3102.00	0.530	152.960	3101.78	1.85	-31.02	-4.02	0.36
3196.00	1.130	137.070	3195.77	0.94	-32.09	-3.19	0.68
3289.00	1.460	141.570	3288.75	-0.53	-33.68	-1.83	0.37
3384.00	0.850	129.620	3383.73	-1.91	-35.08	-0.53	0.69
3477.00	1.140	132.080	3476.72	-3.20	-36.14	0.68	0.32
3571.00	1.370	137.720	3570.69	-4.75	-37.60	2.13	0.28
3665.00	1.640	133.860	3664.66	-6.60	-39.36	3.86	0.31

3760.00	1.030	113.390	3759.63	-8.45	-40.64	5.62	0.81
3854.00	0.510	98.750	3853.63	-9.66	-41.04	6.81	0.59
4002.00	0.560	101.380	4001.62	-11.03	-41.29	8.17	0.04
4190.00	0.440	113.330	4189.61	-12.63	-41.75	9.74	0.08



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Field	(Apache) Sec 25, T22S, R30E	Wellbore	No.19H AWB
Facility	Apache 25 Fed No.18H & No.19H		

WELLPATH DATA (166 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]
4285.00	1.460	77.270	4284.60	-14.13	-41.63	11.25	1.19
4378.00	2.820	73.040	4377.53	-17.40	-40.70	14.60	1.47
4472.00	4.690	75.560	4471.33	-23.21	-39.07	20.53	2.00
4566.00	6.580	71.340	4564.87	-31.82	-36.39	29.35	2.06
4659.00	7.460	64.190	4657.17	-41.98	-32.05	39.84	1.33
4847.00	7.540	61.040	4843.56	-62.92	-20.77	61.62	0.22
5035.00	7.090	59.100	5030.03	-82.78	-8.84	82.36	0.27
5223.00	7.220	58.330	5216.57	-101.89	3.32	102.38	0.09
5412.00	7.110	58.920	5404.09	-121.11	15.60	122.50	0.07
5601.00	6.970	57.240	5591.67	-139.87	27.84	142.16	0.13
5790.00	7.140	58.430	5779.24	-158.61	40.20	161.81	0.12
5979.00	6.850	56.640	5966.83	-177.13	52.54	181.23	0.19
6167.00	7.220	57.300	6153.42	-195.51	65.09	200.54	0.20
6357.00	5.950	68.350	6342.17	-213.96	75.17	219.74	0.94
6546.00	5.780	67.780	6530.18	-231.33	82.39	237.66	0.10
6735.00	5.830	63.670	6718.21	-248.15	90.24	255.07	0.22
6924.00	6.940	54.200	6906.04	-265.21	101.18	272.94	0.81
7112.00	7.010	54.580	7092.65	-282.80	114.47	291.50	0.04
7301.00	6.580	54.600	7280.32	-300.08	127.43	309.72	0.23
7490.00	6.500	55.810	7468.09	-316.85	139.72	327.40	0.08
7678.00	6.320	56.670	7654.91	-333.44	151.38	344.85	0.11
7867.00	5.540	63.170	7842.90	-349.55	161.21	361.68	0.54
8056.00	6.050	64.720	8030.94	-366.07	169.59	378.83	0.28
8245.00	6.800	61.540	8218.75	-384.20	179.17	397.67	0.44
8433.00	4.610	65.400	8405.81	-400.22	187.62	414.33	1.18
8622.00	6.150	68.790	8593.97	-416.05	194.45	430.67	0.83
8811.00	7.900	65.210	8781.54	-436.60	203.56	451.90	0.95
9000.00	7.140	69.170	8968.92	-458.64	213.18	474.67	0.49
9188.00	7.050	57.210	9155.49	-478.48	223.58	495.29	0.79
9377.00	5.840	70.430	9343.30	-496.59	233.09	514.10	1.01
9567.00	5.900	65.940	9532.31	-514.06	240.30	532.13	0.24
9756.00	6.610	56.740	9720.18	-531.29	250.23	550.10	0.65
9851.00	4.500	55.540	9814.73	-538.57	255.34	557.74	2.22
9945.00	4.010	52.280	9908.47	-543.91	259.44	563.38	0.58
10040.00	2.220	60.410	10003.33	-547.92	262.38	567.61	1.94
10134.00	0.770	100.660	10097.30	-550.06	263.16	569.81	1.82
10230.00	0.770	123.920	10193.29	-551.26	262.68	570.98	0.32
10325.00	0.840	133.590	10288.28	-552.35	261.84	572.02	0.16
10419.00	2.130	234.120	10382.26	-551.54	260.34	571.10	2.58
10451.00	5.330	257.650	10414.19	-549.66	259.68	569.17	10.88
10482.00	8.190	261.290	10444.97	-546.12	259.04	565.58	9.32

10514.00	10.420	262.970	10476.54	-541.06	258.34	560.45	7.02
10545.00	13.370	263.010	10506.87	-534.79	257.56	554.11	9.52
10577.00	15.490	265.550	10537.86	-526.93	256.77	546.18	6.91
10608.00	17.890	267.450	10567.56	-518.10	256.24	537.29	7.94



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

WELLPATH DATA (166 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]
10640.00	21.080	267.540	10597.72	-507.50	255.78	526.63	9.97
10671.00	23.750	267.310	10626.37	-495.76	255.24	514.82	8.62
10703.00	26.480	265.770	10655.35	-482.29	254.41	501.27	8.77
10734.00	29.770	268.730	10682.68	-467.78	253.73	486.68	11.53
10766.00	32.670	269.010	10710.05	-451.27	253.41	470.09	9.07
10797.00	35.770	269.780	10735.68	-433.89	253.23	452.66	10.10
10829.00	38.510	270.470	10761.18	-414.62	253.28	433.35	8.66
10860.00	41.780	271.120	10784.88	-394.66	253.56	413.36	10.63
10892.00	44.770	271.290	10808.17	-372.76	254.02	391.44	9.35
10923.00	48.200	270.730	10829.52	-350.31	254.41	368.96	11.14
10955.00	51.550	270.810	10850.14	-325.88	254.74	344.50	10.47
10980.00	54.300	271.140	10865.21	-305.97	255.08	324.56	11.05
11064.00	62.130	273.000	10909.42	-234.66	257.71	253.26	9.51
11096.00	65.420	272.660	10923.56	-205.97	259.12	224.60	10.33
11127.00	68.650	272.520	10935.65	-177.44	260.41	196.09	10.43
11159.00	70.720	271.870	10946.76	-147.44	261.56	166.10	6.74
11191.00	72.840	271.300	10956.77	-117.08	262.40	135.72	6.84
11222.00	74.970	270.930	10965.36	-87.33	262.98	105.94	6.97
11254.00	76.010	270.720	10973.38	-56.40	263.43	74.97	3.31
11284.00	77.920	269.610	10980.14	-27.24	263.51	45.74	7.32
11315.00	79.510	269.660	10986.21	3.07	263.31	15.34	5.13
11347.00	81.100	269.150	10991.60	34.51	262.99	-16.20	5.21
11378.00	82.300	271.630	10996.07	65.12	263.20	-46.87	8.81
11410.00	83.980	272.830	10999.90	96.88	264.43	-78.62	6.44
11442.00	85.830	272.290	11002.74	128.74	265.86	-110.46	6.02
11473.00	88.400	272.450	11004.30	159.68	267.14	-141.39	8.31
11505.00	90.960	272.380	11004.48	191.67	268.49	-173.36	8.00
11536.00	91.600	272.360	11003.78	222.65	269.77	-204.32	2.07
11631.00	91.480	272.150	11001.23	317.57	273.50	-299.21	0.25
11726.00	91.450	272.150	10998.80	412.49	277.07	-394.12	0.03
11821.00	91.420	271.890	10996.42	507.40	280.41	-489.03	0.28
11916.00	91.880	271.530	10993.69	602.29	283.25	-583.94	0.61
12011.00	92.500	271.690	10990.06	697.13	285.91	-678.84	0.67
12105.00	90.960	271.770	10987.22	791.01	288.75	-772.75	1.64
12200.00	90.220	269.820	10986.24	885.85	290.07	-867.73	2.20
12295.00	89.380	269.140	10986.57	980.56	289.21	-962.72	1.14
12390.00	89.320	269.070	10987.65	1075.20	287.72	-1057.71	0.10
12485.00	89.290	269.240	10988.80	1169.86	286.32	-1152.69	0.18
12580.00	88.580	269.280	10990.57	1264.52	285.10	-1247.66	0.75
12675.00	88.890	268.830	10992.67	1359.14	283.53	-1342.63	0.58
12769.00	91.140	269.620	10992.64	1452.81	282.26	-1436.61	2.54

12864.00	92.190	270.060	10989.88	1547.51	281.99	-1531.57	1.20
12959.00	90.860	268.730	10987.35	1642.17	280.99	-1626.53	1.98
13054.00	92.160	269.670	10984.85	1736.80	279.66	-1721.48	1.69
13149.00	92.810	268.940	10980.73	1831.39	278.51	-1816.38	1.03



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WELLPATH DATA (166 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]
13244.00	92.710	268.020	10976.16	1925.84	276.00	-1911.24	0.97
13339.00	93.020	267.950	10971.41	2020.20	272.66	-2006.06	0.33
13433.00	91.170	269.220	10967.97	2113.71	270.34	-2099.96	2.39
13528.00	91.200	270.620	10966.01	2208.45	270.21	-2194.94	1.47
13623.00	91.510	270.440	10963.76	2303.24	271.09	-2289.91	0.38
13718.00	89.970	271.460	10962.53	2398.10	272.66	-2384.88	1.94
13813.00	89.540	271.440	10962.94	2493.00	275.06	-2479.85	0.45
13908.00	89.910	271.170	10963.40	2587.90	277.23	-2574.83	0.48
14002.00	90.400	271.630	10963.14	2681.80	279.53	-2668.80	0.71
14097.00	90.490	271.270	10962.40	2776.70	281.93	-2763.77	0.39
14192.00	90.250	270.370	10961.79	2871.55	283.29	-2858.75	0.98
14287.00	90.090	269.850	10961.51	2966.33	283.47	-2953.75	0.57
14382.00	90.400	270.600	10961.10	3061.12	283.84	-3048.75	0.85
14477.00	90.400	271.130	10960.44	3155.98	285.28	-3143.74	0.56
14571.00	90.120	270.570	10960.01	3249.84	286.67	-3237.72	0.67
14666.00	89.940	270.440	10959.96	3344.66	287.51	-3332.72	0.23
14761.00	90.620	269.940	10959.50	3439.45	287.82	-3427.72	0.89
14856.00	91.850	270.120	10957.45	3534.19	287.87	-3522.69	1.31
14950.00	92.060	270.160	10954.24	3627.93	288.10	-3616.64	0.23
15045.00	92.160	271.630	10950.75	3722.72	289.59	-3711.56	1.55
15140.00	92.900	273.540	10946.55	3817.59	293.87	-3806.37	2.15
15235.00	93.390	273.220	10941.34	3912.44	299.46	-3901.06	0.62
15330.00	92.800	273.550	10936.21	4007.30	305.06	-3995.75	0.71
15425.00	93.300	273.000	10931.16	4102.16	310.48	-4090.46	0.78
15520.00	91.050	273.540	10927.55	4197.07	315.89	-4185.23	2.44
15615.00	89.750	274.410	10926.89	4292.07	322.48	-4280.00	1.65
15709.00	88.120	274.200	10928.63	4386.05	329.53	-4373.71	1.75
15804.00	88.090	274.070	10931.78	4481.00	336.38	-4468.42	0.14
15899.00	88.090	273.590	10934.94	4575.94	342.72	-4563.15	0.50
15966.00	88.060	273.550	10937.19	4642.90	346.89	-4629.98	0.07
16038.00	88.060	273.550	10939.63	4714.86	351.35	-4701.80	0.00