

Actual Wellpath Report

ST01 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	Patterson Petroleum	Slot	SHL
Area	Lea County, NM	Well	Gen. Montcalm 25 State #1
Field	Section 25 T17S R33E	Wellbore	ST01 AWB
Facility	Gen. Montcalm 25 State	Sidetrack from	OH Actual Wellbore at 12500.00 MD

REPORT SETUP INFORMATION

Projection System	NAD27 / TM New Mexico State Planes, Eastern Zone (3001), US feet	Software System	WellArchitect™ 1.2
North Reference	Grid	User	Gomeoscr
Scale	0.999965	Report Generated	11/16/06 at 15:33:08
Wellbore last revised	08/30/06	Database/Source file	WellArchitectDB/ST01

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North [feet]	East [feet]	Easting [US feet]	Northing [US feet]	Latitude [°]	Longitude [°]
Slot Location	0.00	0.00	721759.30	658217.40	32 48 26.813N	103 36 41.688W
Facility Reference Pt			721759.30	658217.40	32 48 26.813N	103 36 41.688W
Field Reference Pt			721759.30	658217.40	32 48 26.813N	103 36 41.688W

WELLPATH DATUM

Calculation method	Minimum curvature	Rig on SHL (RT) to Facility Vertical Datum	0.00 feet
Horizontal Reference Pt	Slot	Rig on SHL (RT) to Mean Sea Level	0.00 feet
Vertical Reference Pt	Rig on SHL (RT)	Facility Vertical Datum to Mud Line (Facility)	0.00 feet
MD Reference Pt	Rig on SHL (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	90.00°

SUR: H-25-17s-33em 1980/N & 1260/E
BHL: H-25-17s-33e, 1865/N & 1221/E
API # 30-025-37823

1865 N 1221 E



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WELLPATH DATA (144 stations)

MD [feet]	Inclination [°]	Azimuth [°]	TVD [feet]	Vert Sect [feet]	North [feet]	East [feet]	DLS [°/100ft]
0.00	0.000	0.000	0.00	0.00	0.00	0.00	0.00
100.00	0.330	136.700	100.00	0.20	-0.21	0.20	0.33
200.00	0.580	113.830	200.00	0.86	-0.62	0.86	0.30
300.00	0.690	120.920	299.99	1.84	-1.14	1.84	0.13
400.00	0.730	131.420	399.98	2.83	-1.87	2.83	0.14
500.00	0.860	143.370	499.97	3.76	-2.89	3.76	0.21
600.00	0.890	135.510	599.96	4.75	-4.05	4.75	0.12
700.00	0.840	130.820	699.95	5.85	-5.08	5.85	0.09
800.00	0.590	129.560	799.94	6.80	-5.89	6.80	0.25
900.00	0.580	143.580	899.94	7.50	-6.62	7.50	0.14
1000.00	0.460	134.760	999.93	8.08	-7.31	8.08	0.14
1100.00	0.630	142.590	1099.93	8.70	-8.03	8.70	0.19
1200.00	0.480	144.260	1199.92	9.28	-8.81	9.28	0.15
1300.00	0.530	144.800	1299.92	9.79	-9.53	9.79	0.05
1400.00	0.580	163.470	1399.92	10.20	-10.39	10.20	0.19
1500.00	0.600	180.170	1499.91	10.34	-11.40	10.34	0.17
1600.00	0.400	190.560	1599.91	10.28	-12.27	10.28	0.22
1700.00	0.360	212.330	1699.90	10.05	-12.88	10.05	0.15
1800.00	0.470	180.550	1799.90	9.88	-13.55	9.88	0.25
1900.00	0.100	128.590	1899.90	9.94	-14.02	9.94	0.42
2000.00	0.280	48.720	1999.90	10.19	-13.91	10.19	0.28
2100.00	0.520	22.560	2099.90	10.55	-13.33	10.55	0.30
2200.00	0.680	21.520	2199.89	10.94	-12.36	10.94	0.16
2300.00	0.710	49.560	2299.88	11.63	-11.40	11.63	0.34
2400.00	0.680	33.630	2399.88	12.43	-10.51	12.43	0.19
2500.00	1.130	47.170	2499.86	13.48	-9.34	13.48	0.50
2600.00	0.970	53.270	2599.85	14.88	-8.17	14.88	0.19
2700.00	1.260	43.620	2699.83	16.32	-6.86	16.32	0.34
2800.00	1.470	32.330	2799.80	17.77	-4.98	17.77	0.34
2900.00	1.330	18.870	2899.77	18.83	-2.80	18.83	0.36
3000.00	1.180	24.380	2999.75	19.63	-0.77	19.63	0.19
3100.00	1.090	18.360	3099.73	20.35	1.07	20.35	0.15
3200.00	0.920	14.700	3199.71	20.85	2.75	20.85	0.18
3300.00	0.860	25.700	3299.70	21.38	4.21	21.38	0.18
3400.00	0.830	18.410	3399.69	21.94	5.57	21.94	0.11
3500.00	0.780	22.790	3499.68	22.43	6.88	22.43	0.08
3600.00	0.770	11.060	3599.67	22.82	8.17	22.82	0.16
3700.00	0.650	356.060	3699.66	22.91	9.40	22.91	0.22
3800.00	0.570	341.400	3799.66	22.72	10.43	22.72	0.17
3900.00	0.580	343.100	3899.65	22.41	11.39	22.41	0.02

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Field	Section 25 T17S R33E	Wellbore	ST01 AWP
Facility	Gen. Montcalm 25 State	Sidetrack from	OH Actual Wellbore at 12500.00 MD

WELLPATH DATA (144 stations)

MD [feet]	Inclination [°]	Azimuth [°]	TVD [feet]	Vert Sect [feet]	North [feet]	East [feet]	DLS [°/100ft]
4000.00	0.350	319.550	3999.65	22.06	12.11	22.06	0.29
4100.00	0.670	313.560	4099.64	21.44	12.74	21.44	0.32
4200.00	0.570	323.720	4199.64	20.72	13.55	20.72	0.15
4300.00	0.570	313.680	4299.63	20.07	14.29	20.07	0.10
4400.00	0.480	312.980	4399.63	19.40	14.92	19.40	0.09
4500.00	0.470	301.890	4499.63	18.75	15.42	18.75	0.09
4600.00	0.420	275.930	4599.62	18.04	15.68	18.04	0.21
4700.00	0.330	297.670	4699.62	17.42	15.85	17.42	0.17
4800.00	0.400	269.290	4799.62	16.81	15.98	16.81	0.19
4900.00	0.600	246.830	4899.62	15.98	15.77	15.98	0.28
5000.00	0.580	235.060	4999.61	15.09	15.27	15.09	0.12
5100.00	0.530	215.580	5099.61	14.40	14.60	14.40	0.19
5200.00	0.450	213.340	5199.60	13.92	13.90	13.92	0.08
5300.00	0.350	184.450	5299.60	13.68	13.27	13.68	0.22
5400.00	0.330	195.450	5399.60	13.58	12.69	13.58	0.07
5500.00	0.260	183.310	5499.60	13.49	12.18	13.49	0.09
5600.00	0.390	192.920	5599.59	13.40	11.62	13.40	0.14
5700.00	0.360	221.790	5699.59	13.11	11.06	13.11	0.19
5800.00	0.240	216.980	5799.59	12.78	10.66	12.78	0.12
5900.00	0.140	229.030	5899.59	12.56	10.41	12.56	0.11
6000.00	0.230	229.330	5999.59	12.31	10.20	12.31	0.09
6100.00	0.150	305.560	6099.59	12.06	10.14	12.06	0.24
6200.00	0.130	316.870	6199.59	11.87	10.30	11.87	0.03
6300.00	0.210	269.300	6299.59	11.61	10.38	11.61	0.16
6400.00	0.190	12.080	6399.59	11.46	10.54	11.46	0.31
6500.00	0.380	33.950	6499.59	11.68	10.98	11.68	0.22
6600.00	0.460	25.770	6599.58	12.04	11.62	12.04	0.10
6700.00	0.410	18.560	6699.58	12.33	12.32	12.33	0.07
6800.00	0.250	6.160	6799.58	12.47	12.87	12.47	0.17
6900.00	0.540	32.050	6899.58	12.74	13.49	12.74	0.33
7000.00	0.560	20.360	6999.57	13.16	14.35	13.16	0.11
7100.00	0.560	19.540	7099.57	13.50	15.27	13.50	0.01
7200.00	0.710	27.060	7199.56	13.94	16.28	13.94	0.17
7300.00	0.620	38.610	7299.56	14.56	17.25	14.56	0.16
7400.00	0.500	18.520	7399.55	15.04	18.09	15.04	0.23
7500.00	0.580	28.590	7499.55	15.42	18.95	15.42	0.12
7600.00	0.400	354.410	7599.54	15.63	19.74	15.63	0.34
7700.00	0.300	17.390	7699.54	15.67	20.34	15.67	0.17
7800.00	0.400	20.890	7799.54	15.87	20.91	15.87	0.10
7900.00	0.390	9.390	7899.54	16.05	21.57	16.05	0.08

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WELLPATH DATA (144 stations)

MD [feet]	Inclination [°]	Azimuth [°]	TVD [feet]	Vert Sect [feet]	North [feet]	East [feet]	DLS [°/100ft]
8000.00	0.260	353.340	7999.54	16.08	22.14	16.08	0.16
8100.00	0.290	324.100	8099.53	15.91	22.57	15.91	0.14
8200.00	0.470	309.260	8199.53	15.44	23.03	15.44	0.20
8300.00	0.460	288.190	8299.53	14.74	23.42	14.74	0.17
8400.00	0.280	287.090	8399.53	14.13	23.61	14.13	0.18
8500.00	0.260	291.290	8499.53	13.68	23.77	13.68	0.03
8600.00	0.290	279.570	8599.52	13.22	23.89	13.22	0.06
8700.00	0.150	299.160	8699.52	12.86	24.00	12.86	0.16
8800.00	0.130	339.640	8799.52	12.70	24.17	12.70	0.10
8900.00	0.030	333.810	8899.52	12.65	24.30	12.65	0.10
9000.00	0.070	2.400	8999.52	12.64	24.38	12.64	0.05
9100.00	0.100	79.190	9099.52	12.73	24.46	12.73	0.11
9200.00	0.110	319.680	9199.52	12.76	24.55	12.76	0.18
9300.00	0.150	23.280	9299.52	12.74	24.74	12.74	0.14
9400.00	0.120	21.320	9399.52	12.83	24.96	12.83	0.03
9500.00	0.130	33.100	9499.52	12.93	25.15	12.93	0.03
9600.00	0.010	348.850	9599.52	12.99	25.26	12.99	0.12
9700.00	0.110	131.560	9699.52	13.06	25.20	13.06	0.12
9800.00	0.250	27.390	9799.52	13.24	25.33	13.24	0.30
9900.00	0.030	334.200	9899.52	13.33	25.55	13.33	0.23
10000.00	0.130	107.300	9999.52	13.42	25.54	13.42	0.15
10100.00	0.140	39.440	10099.52	13.61	25.60	13.61	0.15
10200.00	0.230	72.900	10199.52	13.88	25.75	13.88	0.14
10300.00	0.160	352.720	10299.52	14.05	25.95	14.05	0.26
10400.00	0.410	7.810	10399.52	14.08	26.44	14.08	0.26
10500.00	0.360	26.050	10499.52	14.27	27.08	14.27	0.13
10600.00	0.410	14.420	10599.51	14.50	27.71	14.50	0.09
10700.00	0.500	15.340	10699.51	14.70	28.47	14.70	0.09
10800.00	0.310	322.660	10799.51	14.65	29.11	14.65	0.40
10900.00	0.210	344.760	10899.51	14.44	29.50	14.44	0.14
11000.00	0.300	58.720	10999.51	14.62	29.82	14.62	0.32
11100.00	0.210	88.630	11099.51	15.02	29.96	15.02	0.16
11200.00	0.090	6.080	11199.51	15.21	30.04	15.21	0.22
11300.00	0.440	65.850	11299.51	15.57	30.27	15.57	0.40
11400.00	0.220	76.840	11399.50	16.11	30.47	16.11	0.23
11500.00	0.110	136.570	11499.50	16.36	30.45	16.36	0.19
11600.00	0.220	241.190	11599.50	16.26	30.29	16.26	0.27
11700.00	0.120	240.010	11699.50	16.00	30.14	16.00	0.10
11800.00	0.180	110.450	11799.50	16.06	30.03	16.06	0.27
11900.00	0.470	108.060	11899.50	16.60	29.85	16.60	0.29

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WELLPATH DATA (144 stations)

MD [feet]	Inclination [°]	Azimuth [°]	TVD [feet]	Vert Sect [feet]	North [feet]	East [feet]	DLS [°/100ft]
12000.00	0.480	131.760	11999.50	17.30	29.45	17.30	0.20
12100.00	0.580	128.970	12099.49	18.00	28.85	18.00	0.10
12200.00	0.690	126.950	12199.49	18.88	28.17	18.88	0.11
12300.00	0.730	119.410	12299.48	19.92	27.49	19.92	0.10
12400.00	0.730	127.490	12399.47	20.98	26.79	20.98	0.10
12500.00	0.630	106.090	12499.46	22.01	26.25	22.01	0.27
12575.00	6.900	103.800	12574.26	26.79	25.06	26.79	8.36
12637.00	6.700	102.400	12635.83	33.93	23.40	33.93	0.42
12700.00	7.300	101.000	12698.36	41.45	21.84	41.45	0.99
12763.00	7.000	109.100	12760.87	49.01	19.82	49.01	1.67
12826.00	7.000	106.000	12823.40	56.33	17.51	56.33	0.60
12888.00	6.700	110.900	12884.96	63.34	15.18	63.34	1.06
12950.00	6.400	110.900	12946.55	69.95	12.66	69.95	0.48
13008.00	5.800	109.100	13004.23	75.73	10.54	75.73	1.09
13070.00	5.000	106.300	13065.95	81.29	8.76	81.29	1.36
13133.00	3.800	100.300	13128.76	85.98	7.62	85.98	2.04
13198.00	3.600	101.700	13193.63	90.09	6.82	90.09	0.34
13261.00	2.900	92.600	13256.53	93.62	6.34	93.62	1.38
13325.00	2.800	88.700	13320.45	96.80	6.31	96.80	0.34
13388.00	1.500	77.500	13383.40	99.15	6.52	99.15	2.16
13452.00	0.500	45.100	13447.39	100.16	6.90	100.16	1.74
13516.00	0.200	47.900	13511.39	100.44	7.17	100.44	0.47
13579.00	0.600	103.800	13574.39	100.85	7.16	100.85	0.82
13692.00	0.400	100.600	13687.38	101.81	6.95	101.81	0.18

WELLPATH COMPOSITION Ref Wellbore: ST01 AWP Ref Wellpath: ST01 AWP

Start MD [feet]	End MD [feet]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	12500.00	Generic gyro - northseeking (Standard)	Gyro 0' - 12510'	OH Actual Wellbore
12500.00	13692.00	NaviTrak (Standard)	ST01 MWD	ST01 AWP