

30-015-25399

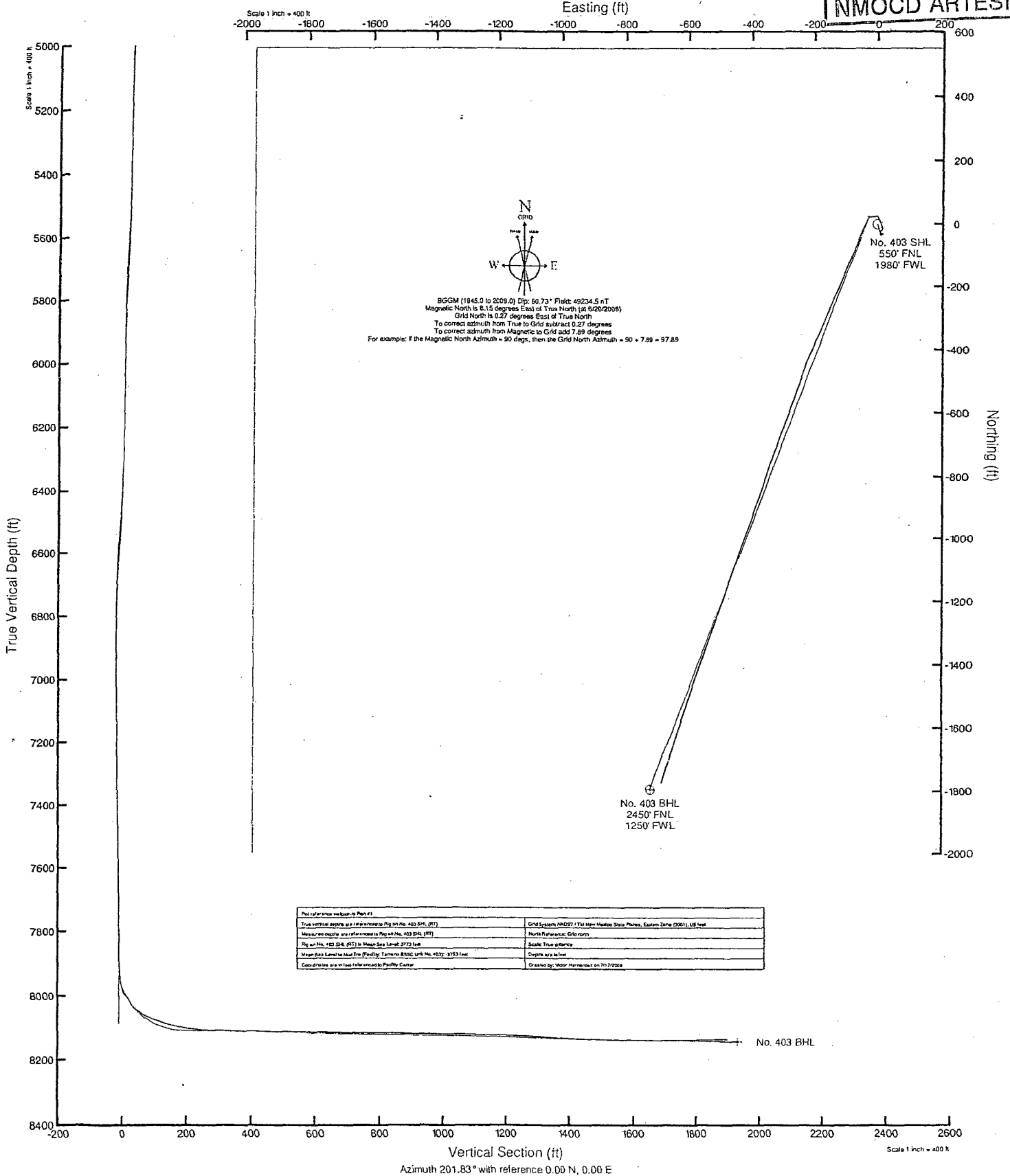
Legacy Reserves

Location: Eddy County, NM
Field: (Tamano) Sec 11, T18S, R31E
Facility: Tamano BSSC Unit No. 403

Slot: No. 403 SHL
Well: No. 403
Wellbore: No. 403 PWB



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Actual Wellpath Report

No. 403 AWB

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	Legacy Reserves	Slot	No. 403 SHL
Area	Eddy County, NM	Well	No. 403
Field	(Tamano) Sec 11, T18S, R31E	Wellbore	No. 403 AWB
Facility	Tamano BSSC Unit No. 403	Sidetrack from	No. 403 AWB OH at 7900.00 MD

REPORT SETUP INFORMATION

Projection System	NAD27 / TM New Mexico State Planes, Eastern Zone (3001), US feet	Software System	WellArchitect® 2.0
North Reference	Grid	User	Victor Hernandez
Scale	0.999935	Report Generated	7/17/2008 at 8:28:43 AM
Convergence at slot	0.27° East	Database/Source file	WA_Midland/No. 403_AWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude
Slot Location	0.00	0.00	651075.20	643234.60	32°46'02.569"N	103°50'30.663"W
Facility Reference Pt			651075.20	643234.60	32°46'02.569"N	103°50'30.663"W
Field Reference Pt			651075.20	643234.60	32°46'02.569"N	103°50'30.663"W

WELLPATH DATUM

Calculation method	Minimum curvature	Rig on No. 403 SHL (RT) to Facility Vertical Datum	20.00ft
Horizontal Reference Pt	Facility Center	Rig on No. 403 SHL (RT) to Mean Sea Level	3773.00ft
Vertical Reference Pt	Rig on No. 403 SHL (RT)	Facility Vertical Datum to Mud Line (Facility)	0.00ft
MD Reference Pt	Rig on No. 403 SHL (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	201.83°



Actual Wellpath Report

No. 403 AWB

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	Legacy Reserves	Slot	No. 403 SHL
Area	Eddy County, NM	Well	No. 403
Field	(Tamano) Sec 11, T18S, R31E	Wellbore	No. 403 AWB
Facility	Tamano BSSC Unit No. 403	Sidetrack from	No. 403 AWB OH at 7900.00 MD

WELLPATH DATA (121 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]
0.00	0.000	168.430	0.00	0.00	0.00	0.00	0.00
100.00	0.560	168.430	100.00	0.41	-0.48	0.10	0.56
200.00	0.550	158.420	199.99	1.16	-1.40	0.37	0.10
300.00	0.620	157.450	299.99	1.90	-2.35	0.76	0.07
400.00	0.750	147.120	399.98	2.66	-3.40	1.32	0.18
500.00	1.460	161.670	499.96	4.02	-5.16	2.08	0.76
600.00	1.680	163.810	599.92	6.14	-7.78	2.88	0.23
700.00	1.600	166.840	699.88	8.44	-10.54	3.61	0.12
800.00	1.430	165.310	799.85	10.59	-13.11	4.25	0.17
900.00	1.390	159.470	899.82	12.49	-15.45	4.99	0.15
1000.00	1.210	158.600	999.79	14.15	-17.57	5.80	0.18
1100.00	1.190	159.700	1099.77	15.69	-19.53	6.54	0.03
1200.00	1.040	159.220	1199.75	17.13	-21.35	7.23	0.15
1300.00	0.840	161.090	1299.74	18.35	-22.89	7.79	0.20
1400.00	0.760	160.300	1399.73	19.41	-24.21	8.25	0.08
1500.00	0.690	157.830	1499.72	20.34	-25.39	8.70	0.08
1600.00	0.630	154.360	1599.71	21.14	-26.44	9.16	0.07
1700.00	0.610	149.520	1699.71	21.84	-27.40	9.67	0.06
1800.00	0.560	138.630	1799.70	22.38	-28.22	10.26	0.12
1900.00	0.560	111.950	1899.70	22.62	-28.79	10.03	0.24
2000.00	0.680	99.920	1999.69	22.52	-29.09	12.06	0.19
2100.00	0.720	95.810	2099.69	22.22	-29.26	13.27	0.06
2200.00	0.750	99.930	2199.68	21.91	-29.43	14.54	0.06
2300.00	0.540	106.660	2299.67	21.74	-29.68	15.64	0.22
2400.00	0.370	96.060	2399.67	21.61	-29.85	16.41	0.19
2500.00	0.260	79.780	2499.67	21.40	-29.84	16.96	0.14
2600.00	0.310	89.020	2599.66	21.17	-29.80	17.45	0.07
2700.00	0.060	115.540	2699.66	21.07	-29.82	17.77	0.26
2800.00	0.300	212.260	2799.66	21.33	-30.06	17.68	0.31
2900.00	0.260	220.350	2899.66	21.80	-30.45	17.59	0.06



Actual Wellpath Report

No. 403 AWB

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	Legacy Reserves	Slot	No. 403 SHL
Area	Eddy County, NM	Well	No. 403
Field	(Tamano) Sec 11, T18S, R31E	Wellbore	No. 403 AWB
Facility	Tamano BSSC Unit No. 403	Sidetrack from	No. 403 A WB OH at 7900.00 MD

WELLPATH DATA (121 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]
3000.00	0.310	242.490	2999.66	22.22	-30.75	17.00	0.12
3100.00	0.360	212.870	3099.66	22.74	-31.14	16.59	0.18
3200.00	0.500	226.530	3199.66	23.44	-31.70	16.10	0.17
3300.00	0.430	222.160	3299.65	24.19	-32.28	15.53	0.08
3400.00	0.590	241.460	3399.65	24.94	-32.81	14.88	0.28
3500.00	0.590	236.590	3499.64	25.76	-33.34	13.95	0.05
3600.00	0.440	230.580	3599.64	26.52	-33.86	13.22	0.16
3700.00	0.420	233.340	3699.64	27.17	-34.33	12.63	0.03
3800.00	0.400	218.990	3799.63	27.81	-34.82	12.12	0.10
3900.00	0.330	202.900	3899.63	28.43	-35.35	11.77	0.14
4000.00	0.310	261.350	3999.63	28.86	-35.65	11.39	0.30
4100.00	0.300	276.030	4099.63	29.07	-35.66	10.86	0.08
4200.00	0.300	343.800	4199.63	28.93	-35.38	10.52	0.33
4300.00	0.340	296.100	4299.63	28.70	-35.00	10.19	0.26
4400.00	0.310	353.160	4399.63	28.44	-34.60	9.90	0.32
4500.00	0.500	335.190	4499.62	27.90	-33.94	9.69	0.23
4600.00	0.560	347.600	4599.62	27.19	-33.06	9.40	0.13
4700.00	0.750	354.320	4699.61	26.21	-31.93	9.23	0.20
4800.00	0.740	348.500	4799.60	25.09	-30.65	9.04	0.08
4900.00	0.740	346.560	4899.60	24.02	-29.39	8.76	0.03
5000.00	0.850	351.650	4999.59	22.86	-28.03	8.50	0.13
5100.00	0.900	8.080	5099.57	21.45	-26.52	8.51	0.25
5200.00	0.970	26.880	5199.56	19.85	-24.98	9.00	0.31
5300.00	1.210	35.290	5299.54	17.98	-23.37	9.99	0.29
5400.00	1.450	31.660	5399.52	15.70	-21.43	11.26	0.23
5500.00	1.600	31.940	5499.48	13.08	-19.17	12.67	0.15
5600.00	1.710	31.200	5599.44	10.23	-16.71	14.18	0.11
5700.00	1.450	18.940	5699.40	7.50	-14.23	15.36	0.43
5800.00	0.980	353.180	5799.38	5.48	-12.19	15.67	0.71
5900.00	0.080	338.050	5899.36	4.05	-10.46	15.22	0.29



Actual Wellpath Report

No. 403 AWB

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REFERENCE WELLPATH IDENTIFICATION

Operator	Legacy Reserves	Slot	No. 403 SHL
Area	Eddy County, NM	Well	No. 403
Field	(Tamano) Sec 11, T18S, R31E	Wellbore	No. 403 AWB
Facility	Tamano BSSC Unit No. 403	Sidetrack from	No. 403 AWB OH at 7900.00 MD

WELLPATH DATA (121 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]
6000.00	1.240	343.740	5999.34	2.52	-8.55	14.56	0.20
6100.00	1.380	346.220	6099.32	0.69	-6.34	13.97	0.15
6200.00	1.570	333.760	6199.28	-1.20	-3.94	13.08	0.37
6300.00	3.540	337.720	6299.18	-4.34	0.14	11.30	1.98
6400.00	3.30	338.390	6398.97	-8.98	-6.10	8.90	0.29
6500.00	3.460	336.840	6498.77	-13.54	11.98	6.49	0.38
6600.00	3.340	335.920	6598.59	-17.70	17.42	4.11	0.13
6700.00	2.690	329.730	6698.46	-21.16	22.10	1.74	0.73
6800.00	1.710	323.640	6798.38	-23.39	25.33	-0.33	1.01
6900.00	0.760	318.100	6898.36	-24.47	27.03	-1.60	0.96
7000.00	0.660	261.100	6998.35	-24.47	27.43	-2.67	0.68
7100.00	1.080	232.750	7098.34	-23.37	26.77	-3.99	0.59
7200.00	1.370	236.650	7198.32	-21.58	25.55	-5.73	0.30
7300.00	1.670	256.450	7298.28	-19.76	24.55	-8.15	0.60
7400.00	1.840	258.990	7398.23	-18.08	23.90	-13.14	0.19
7500.00	2.010	265.530	7498.18	-16.39	23.46	-14.47	0.28
7600.00	1.760	271.730	7598.12	-15.09	23.37	-17.75	0.32
7700.00	1.800	271.470	7698.08	-14.01	23.45	-20.85	0.04
7800.00	1.830	271.890	7798.03	-12.92	23.54	-24.02	0.03
7900.00	1.730	278.730	7897.98	-12.04	23.83	-27.14	0.28
7930.00	5.500	201.000	7927.92	-10.49	22.55	-28.07	18.01
7962.00	12.700	206.200	7959.50	-5.45	17.96	-30.18	22.62
7993.00	23.900	205.500	7988.89	4.25	9.20	-34.40	36.14
8024.00	35.900	203.400	8015.71	19.66	-4.86	-40.73	38.85
8055.00	46.800	202.700	8038.95	40.10	-23.68	-48.73	35.19
8087.00	57.800	202.300	8058.49	65.38	-47.04	-58.40	34.39
8116.00	67.200	202.000	8071.86	91.07	-70.84	-68.08	32.43
8147.00	74.400	201.300	8082.05	120.33	-98.03	-78.87	23.32
8179.00	75.200	201.600	8090.44	151.21	-126.77	-90.16	2.66
8210.00	78.100	201.600	8097.60	181.52	-154.81	-101.27	9.35



Actual Wellpath Report

No. 403 AWB

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	Legacy Reserves	Slot	No. 403 SHL
Area	Eddy County, NM	Well	No. 403
Field	(Tamano) Sec 11, T18S, R31E	Wellbore	No. 403 AWB
Facility	Tamano BSSC Unit No. 403	Sidetrack from	No. 403 AWB OH at 7900.00 MD

WELLPATH DATA (121 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]
8242.00	82.100	202.600	8103.10	212.89	-184.01	-113.13	12.87
8273.00	85.000	203.400	8106.58	243.68	-212.36	-125.16	9.70
8305.00	88.600	203.400	8108.37	275.61	-241.68	-137.85	11.25
8337.00	88.700	203.400	8109.12	307.59	-271.04	-150.55	0.31
8368.00	88.600	203.400	8109.85	338.57	-299.48	-162.86	0.32
8400.00	88.600	204.000	8110.63	370.54	-328.78	-175.72	1.87
8432.00	88.700	203.400	8111.39	402.52	-358.07	-188.58	1.90
8463.00	89.100	204.100	8111.98	433.49	-386.44	-201.06	2.60
8495.00	89.300	202.300	8112.43	465.48	-415.85	-213.67	5.66
8559.00	88.900	199.100	8113.41	529.45	-475.70	-236.28	5.04
8622.00	89.100	199.800	8114.53	592.39	-535.09	-257.26	1.16
8685.00	89.000	199.800	8115.58	655.34	-594.36	-278.59	0.16
8748.00	89.100	200.600	8116.62	718.30	-653.48	-300.35	1.28
8811.00	90.300	200.700	8116.95	781.29	-712.43	-322.56	1.91
8874.00	89.000	198.800	8117.94	844.26	-771.72	-343.85	3.65
8937.00	89.000	198.800	8118.44	907.14	-831.35	-364.15	0.00
9000.00	89.400	199.100	8119.32	970.06	-890.93	-384.61	0.79
9062.00	90.100	199.100	8119.59	1031.99	-949.51	-404.89	1.13
9126.00	88.300	199.100	8120.48	1095.91	-1009.98	-425.83	2.81
9190.00	87.800	198.400	8122.66	1159.78	-1070.55	-446.39	1.34
9253.00	87.500	199.800	8125.24	1222.65	-1130.03	-466.99	2.27
9316.00	87.500	198.800	8127.99	1285.53	-1189.43	-487.79	1.59
9379.00	86.800	199.100	8131.12	1348.37	-1248.94	-508.22	1.21
9442.00	88.100	199.500	8133.93	1411.24	-1308.34	-529.03	2.16
9506.00	88.600	199.500	8136.33	1475.15	-1368.63	-550.37	2.07
9569.00	88.900	199.100	8138.25	1538.05	-1428.06	-571.19	2.16
9633.00	89.500	199.100	8139.14	1601.97	-1488.53	-592.13	0.94
9695.00	89.600	198.100	8139.63	1663.87	-1547.29	-611.90	1.62
9788.00	91.000	197.400	8139.14	1756.63	-1635.86	-640.25	1.68
9888.00	91.600	196.000	8136.99	1851.22	-1726.88	-667.54	1.60



Actual Wellpath Report

No. 403 AWB

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	Legacy Reserves	Slot	No. 403 SHL
Area	Eddy County, NM	Well	No. 403
Field	(Tamano) Sec 11, T18S, R31E	Wellbore	No. 403 AWB
Facility	Tamano BSSC Unit No. 403	Sidetrack from	No. 403 AWB OH at 7900.00 MD

WELLPATH DATA (121 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]
9933.00†	91.600	196.000	8135.59	1900.95	-1774.87	-681.32	0.00

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
No. 403 BHL		8144.00	-1794.02	-718.75	650356.50	641440.70	32°45'44.851"N	103°50'39.177"W	point

WELLPATH COMPOSITION Ref Wellbore: No. 403 AWB Ref Wellpath: No. 403 AWB

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7900.00	Generic gyro - continuous (Standard)	GYRO	No. 403 AWB OH
7900.00	9883.00	NaviTrak (Standard)	MWD	No. 403 AWB
9883.00	9933.00	Blind Drilling (std)	Projection to bit	No. 403 AWB