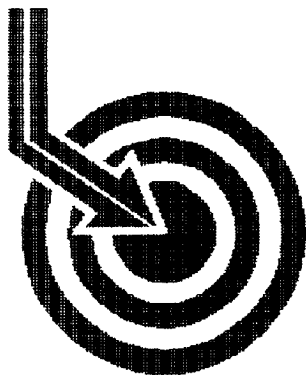




Scientific Drilling

SUR: L-34-15s-35e, 1980/S & 660/W
BHL: L-34-15s-35e, 1870/S & 859/W
API # 30-025-32291

ENERGEN RESOURCES

Field: WLSU
Site: Lea County, NM
Well: WLSU #8
Wellpath: ST - Job #32K0706555/643/640
Survey: 07/12/06



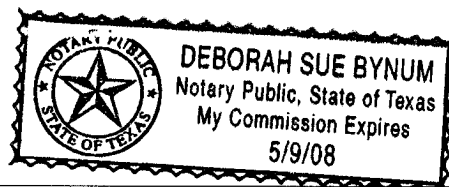
This survey is correct to the best of my knowledge
and is supported by actual field data.

.....*Leharton*..... Company Representative

Notorized this date 14th of November 2006.

Deborah Sue Bynum

Notary Signature
County of Midland
State of Texas





Scientific Drilling International

Survey Report

Company: ENERGEN RESOURCES	Date: 11/07/2006	Time: 12:41:33	Page: 1
Field: WLSU	Co-ordinate(NE) Reference:	Site: Lea County, NM, Grid North	
Site: Lea County, NM	Vertical (TVD) Reference:	SITE 0.0	
Well: WLSU #8	Section (VS) Reference:	Well (0.00N,0.00E,320.02Azi)	
Wellpath: VH - Job #32K0506426	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Survey: 05/26/06 KSRG 0'-8450'	Start Date: 05/26/2006
Company: Scientific Drilling Internatio	Engineer: Gonzales w/Signal
Tool: E-field;E-field	Tied-to: From Surface

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.41	339.55	100.00	0.34	0.34	-0.13	0.41	0.36	339.55
200.00	0.54	313.70	200.00	1.14	1.00	-0.59	0.25	1.16	329.33
300.00	0.52	304.62	299.99	2.05	1.58	-1.30	0.09	2.05	320.44
400.00	0.45	313.43	399.99	2.88	2.11	-1.96	0.10	2.88	317.02
500.00	0.41	310.19	499.99	3.62	2.61	-2.52	0.05	3.63	315.96
600.00	0.30	315.04	599.98	4.23	3.02	-2.98	0.11	4.25	315.42
700.00	0.19	332.61	699.98	4.65	3.36	-3.24	0.13	4.67	316.00
800.00	0.21	333.34	799.98	4.99	3.67	-3.40	0.02	5.00	317.17
900.00	0.22	355.14	899.98	5.33	4.02	-3.50	0.08	5.33	318.99
1000.00	0.24	46.70	999.98	5.50	4.36	-3.36	0.20	5.50	322.35
1100.00	0.19	86.39	1099.98	5.41	4.51	-3.04	0.15	5.44	325.99
1200.00	0.18	116.93	1199.98	5.17	4.45	-2.74	0.10	5.23	328.39
1300.00	0.19	137.12	1299.98	4.86	4.26	-2.49	0.07	4.93	329.72
1400.00	0.22	136.33	1399.98	4.50	4.00	-2.24	0.03	4.58	330.73
1500.00	0.20	132.81	1499.98	4.14	3.74	-1.98	0.02	4.23	332.11
1600.00	0.08	130.65	1599.98	3.90	3.58	-1.80	0.12	4.00	333.30
1700.00	0.06	166.76	1699.98	3.78	3.48	-1.73	0.05	3.89	333.51
1800.00	0.14	91.20	1799.98	3.65	3.43	-1.60	0.14	3.78	334.97
1900.00	0.14	37.32	1899.98	3.60	3.52	-1.40	0.13	3.79	338.26
2000.00	0.13	35.21	1999.98	3.66	3.71	-1.26	0.01	3.92	341.19
2100.00	0.12	26.29	2099.98	3.73	3.90	-1.15	0.02	4.06	343.53
2200.00	0.24	60.79	2199.98	3.73	4.09	-0.92	0.16	4.20	347.29
2300.00	0.22	37.10	2299.97	3.73	4.35	-0.62	0.10	4.39	351.83
2400.00	0.27	59.87	2399.97	3.74	4.62	-0.31	0.11	4.63	356.22
2500.00	0.31	41.55	2499.97	3.74	4.94	0.08	0.10	4.94	0.91
2600.00	0.35	44.71	2599.97	3.80	5.36	0.47	0.04	5.38	5.04
2700.00	0.67	38.35	2699.97	3.95	6.04	1.05	0.32	6.13	9.87
2800.00	0.91	36.83	2799.96	4.25	7.13	1.89	0.24	7.38	14.84
2900.00	0.99	34.97	2899.94	4.66	8.47	2.86	0.09	8.94	18.65
3000.00	1.00	30.70	2999.93	5.17	9.93	3.80	0.07	10.63	20.94
3100.00	1.07	32.36	3099.91	5.74	11.47	4.75	0.08	12.41	22.48
3200.00	0.87	37.38	3199.90	6.19	12.86	5.71	0.22	14.07	23.92
3300.00	0.78	37.17	3299.89	6.51	14.01	6.58	0.09	15.48	25.16
3400.00	0.66	35.86	3399.88	6.80	15.02	7.33	0.12	16.71	26.01
3500.00	0.66	34.65	3499.87	7.09	15.96	7.99	0.01	17.85	26.60
3600.00	0.31	350.79	3599.87	7.48	16.70	8.28	0.49	18.64	26.36
3700.00	0.25	344.70	3699.87	7.91	17.18	8.18	0.07	19.02	25.45
3800.00	0.48	355.52	3799.87	8.45	17.80	8.09	0.24	19.55	24.42
3900.00	1.12	351.32	3899.86	9.63	19.19	7.91	0.64	20.75	22.39
4000.00	1.22	351.90	3999.84	11.37	21.21	7.61	0.10	22.53	19.73
4100.00	1.23	351.46	4099.81	13.18	23.32	7.30	0.01	24.44	17.38
4200.00	1.13	345.13	4199.79	14.99	25.34	6.89	0.16	26.26	15.20
4300.00	1.07	336.55	4299.77	16.78	27.15	6.26	0.18	27.86	12.99
4400.00	0.96	332.51	4399.76	18.49	28.75	5.50	0.13	29.27	10.84
4500.00	0.99	328.46	4499.74	20.17	30.23	4.66	0.08	30.58	8.77
4600.00	0.97	324.43	4599.73	21.87	31.65	3.72	0.07	31.87	6.70
4700.00	1.08	332.82	4699.71	23.63	33.18	2.80	0.19	33.30	4.82
4800.00	1.09	336.12	4799.69	25.46	34.89	1.98	0.06	34.94	3.25



Scientific Drilling International Survey Report

Company: ENERGEN RESOURCES	Date: 11/07/2006	Time: 12:41:33	Page: 2
Field: WLSU	Co-ordinate(NE) Reference:	Site: Lea County, NM, Grid North	
Site: Lea County, NM	Vertical (TVD) Reference:	SITE 0.0	
Well: WLSU #8	Section (VS) Reference:	Well (0.00N,0.00E,320.02Azi)	
Wellpath: VH - Job #32K0506426	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
4900.00	1.02	334.74	4899.68	27.24	36.56	1.22	0.07	36.58	1.91
5000.00	0.92	329.47	4999.66	28.89	38.06	0.43	0.13	38.06	0.65
5100.00	0.93	323.63	5099.65	30.49	39.40	-0.46	0.09	39.41	359.33
5200.00	0.96	320.74	5199.64	32.14	40.71	-1.47	0.06	40.73	357.93
5300.00	0.79	306.25	5299.62	33.65	41.76	-2.56	0.28	41.84	356.50
5400.00	0.71	299.45	5399.62	34.90	42.47	-3.65	0.12	42.63	355.08
5500.00	0.76	289.54	5499.61	36.05	43.00	-4.82	0.14	43.27	353.61
5600.00	0.68	281.46	5599.60	37.08	43.34	-6.02	0.13	43.76	352.09
5700.00	0.80	242.31	5699.59	37.69	43.13	-7.22	0.51	43.73	350.49
5800.00	0.60	240.56	5799.58	37.94	42.55	-8.30	0.20	43.35	348.97
5900.00	0.52	246.75	5899.58	38.17	42.11	-9.17	0.10	43.10	347.72
6000.00	0.63	226.54	5999.57	38.26	41.56	-9.99	0.23	42.74	346.49
6100.00	0.65	209.15	6099.57	38.03	40.68	-10.66	0.19	42.06	345.31
6200.00	0.68	191.35	6199.56	37.45	39.61	-11.06	0.21	41.12	344.40
6300.00	0.71	159.71	6299.56	36.50	38.44	-10.96	0.38	39.98	344.09
6400.00	0.70	157.42	6399.55	35.33	37.30	-10.51	0.03	38.75	344.27
6500.00	0.70	161.95	6499.54	34.18	36.15	-10.08	0.06	37.53	344.42
6600.00	0.73	172.03	6599.53	33.08	34.94	-9.81	0.13	36.29	344.32
6700.00	0.76	183.28	6699.52	32.05	33.65	-9.76	0.15	35.04	343.83
6800.00	0.76	190.26	6799.52	31.15	32.33	-9.91	0.09	33.82	342.96
6900.00	0.73	187.92	6899.51	30.30	31.05	-10.12	0.04	32.66	341.95
7000.00	0.63	202.08	6999.50	29.61	29.91	-10.41	0.19	31.67	340.81
7100.00	0.67	205.03	7099.49	29.11	28.87	-10.87	0.05	30.85	339.38
7200.00	0.64	200.16	7199.49	28.58	27.82	-11.31	0.06	30.03	337.88
7300.00	0.70	209.58	7299.48	28.09	26.76	-11.80	0.13	29.25	336.21
7400.00	0.67	202.22	7399.47	27.60	25.69	-12.32	0.09	28.49	334.37
7500.00	0.71	207.17	7499.47	27.09	24.60	-12.83	0.07	27.74	332.46
7600.00	0.70	208.38	7599.46	26.62	23.51	-13.40	0.02	27.06	330.32
7700.00	0.61	208.49	7699.45	26.20	22.50	-13.94	0.09	26.47	328.21
7800.00	0.46	197.59	7799.45	25.79	21.65	-14.32	0.18	25.96	326.52
7900.00	0.45	208.49	7899.44	25.43	20.92	-14.63	0.09	25.53	325.04
8000.00	0.62	206.68	7999.44	25.07	20.10	-15.06	0.17	25.11	323.16
8100.00	0.52	181.68	8099.43	24.52	19.16	-15.31	0.27	24.53	321.36
8200.00	0.49	161.37	8199.43	23.78	18.30	-15.19	0.18	23.78	320.30
8300.00	0.52	146.31	8299.43	22.93	17.52	-14.80	0.14	22.93	319.80
8400.00	1.19	137.24	8399.42	21.45	16.38	-13.85	0.68	21.45	319.79
8450.00	0.72	128.33	8449.41	20.62	15.80	-13.25	0.98	20.62	320.02



Scientific Drilling International Survey Report

Company: ENERGEN RESOURCES	Date: 11/07/2006	Time: 12:42:03	Page: 1
Field: WLSU	Co-ordinate(NE) Reference:	Site: Lea County, NM, Grid North	
Site: Lea County, NM	Vertical (TVD) Reference:	SITE 0.0	
Well: WLSU #8	Section (VS) Reference:	Well (0.00N,0.00E,320.02Azi)	
Wellpath: ST - Job #32K0706555/643/640	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: 07/12/06	Start Date: 07/12/2006
KSRG 0'-4600'-5070'	
Company: Scientific Drilling Internatio	Engineer: Guebara/Rowe
Tool: Keeper;Keeper Gyro	Tied-to: From: Definitive Path

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
4600.00	0.97	324.43	4599.73	21.87	31.65	3.72	0.00	31.87	6.70
4700.00	1.11	334.04	4699.71	23.65	33.21	2.80	0.22	33.33	4.83
4800.00	3.53	6.08	4799.63	26.73	37.14	2.71	2.66	37.24	4.17
4900.00	4.05	6.90	4899.41	31.28	43.71	3.46	0.52	43.85	4.52
5000.00	3.20	0.28	4999.21	35.82	50.01	3.89	0.95	50.16	4.45
5070.00	2.47	352.52	5069.12	38.58	53.46	3.71	1.18	53.59	3.97
5100.00	2.58	325.33	5099.09	39.80	54.65	3.24	3.97	54.75	3.39
5200.00	1.64	329.57	5199.02	43.45	57.74	1.23	0.95	57.75	1.22
5300.00	2.91	66.30	5298.97	44.15	59.99	2.83	3.50	60.06	2.70
5400.00	4.29	103.54	5398.78	40.43	60.14	8.80	2.64	60.78	8.32
5500.00	4.91	119.93	5498.46	33.41	57.13	16.14	1.45	59.36	15.78
5600.00	5.25	119.00	5598.07	25.12	52.77	23.85	0.35	57.91	24.32
5700.00	5.01	120.84	5697.67	16.72	48.32	31.60	0.29	57.73	33.19
5800.00	4.62	126.47	5797.32	8.68	43.68	38.59	0.61	58.29	41.46
5900.00	4.54	129.72	5897.00	0.88	38.76	44.87	0.27	59.30	49.18
6000.00	4.47	129.12	5996.69	-6.84	33.77	50.94	0.08	61.12	56.45
6100.00	3.38	125.72	6096.45	-13.53	29.59	56.36	1.11	63.65	62.29
6200.00	3.37	125.03	6196.28	-19.22	26.19	61.16	0.04	66.53	66.82
6300.00	3.39	125.31	6296.11	-24.92	22.79	65.98	0.03	69.80	70.94
6400.00	3.22	122.09	6395.94	-30.45	19.59	70.77	0.25	73.43	74.53
6500.00	3.04	122.86	6495.79	-35.66	16.66	75.38	0.18	77.19	77.54
6600.00	2.93	124.06	6595.66	-40.65	13.79	79.72	0.13	80.90	80.19
6700.00	2.87	125.71	6695.53	-45.53	10.90	83.87	0.10	84.57	82.60
6800.00	3.67	123.91	6795.36	-51.03	7.65	88.56	0.81	88.89	85.06
6900.00	3.68	123.04	6895.16	-57.18	4.11	93.91	0.06	94.00	87.49
7000.00	3.28	119.86	6994.97	-62.93	0.94	99.08	0.44	99.08	89.46
7100.00	2.62	122.80	7094.84	-67.80	-1.72	103.48	0.68	103.49	90.95
7200.00	2.67	124.84	7194.73	-72.23	-4.29	107.31	0.11	107.40	92.29
7300.00	2.21	127.38	7294.64	-76.36	-6.79	110.76	0.47	110.96	93.51
7400.00	2.23	129.25	7394.57	-80.15	-9.19	113.79	0.08	114.17	94.62
7500.00	2.08	133.31	7494.50	-83.87	-11.67	116.62	0.21	117.20	95.71
7600.00	1.96	134.26	7594.43	-87.37	-14.11	119.17	0.12	120.00	96.75
7700.00	1.91	128.51	7694.38	-90.71	-16.34	121.70	0.20	122.79	97.65
7800.00	2.00	129.83	7794.32	-94.06	-18.50	124.34	0.10	125.71	98.46
7900.00	2.31	124.73	7894.25	-97.72	-20.76	127.34	0.36	129.02	99.26
8000.00	2.54	120.22	7994.16	-101.75	-23.02	130.91	0.30	132.92	99.98
8100.00	2.62	115.84	8094.06	-105.92	-25.14	134.88	0.21	137.20	100.56
8200.00	2.44	114.12	8193.96	-109.92	-27.00	138.88	0.20	141.48	101.00
8300.00	2.29	110.75	8293.88	-113.57	-28.58	142.69	0.20	145.52	101.33
8400.00	2.44	106.54	8393.79	-117.09	-29.89	146.60	0.23	149.62	101.53
8500.00	2.34	108.03	8493.70	-120.60	-31.13	150.58	0.12	153.76	101.68
8600.00	2.32	110.28	8593.62	-124.09	-32.46	154.42	0.09	157.80	101.87
8700.00	2.41	111.45	8693.54	-127.69	-33.94	158.28	0.10	161.87	102.10
8800.00	2.38	108.27	8793.45	-131.30	-35.35	162.20	0.14	166.01	102.30
8900.00	2.10	105.86	8893.37	-134.58	-36.51	165.94	0.30	169.91	102.41
9000.00	1.89	106.14	8993.31	-137.47	-37.47	169.28	0.21	173.38	102.48
9100.00	1.72	113.26	9093.26	-140.18	-38.52	172.25	0.28	176.50	102.60
9200.00	1.62	111.26	9193.22	-142.76	-39.62	174.94	0.12	179.37	102.76
9300.00	1.48	115.20	9293.18	-145.17	-40.68	177.43	0.18	182.03	102.91



Scientific Drilling International Survey Report

Company: ENERGEN RESOURCES
Field: WLSU
Site: Lea County, NM
Well: WLSU #8
Wellpath: ST - Job #32K0706555/643/640

Date: 11/07/2006 Time: 12:42:03 Page: 2
Co-ordinate(NE) Reference: Site: Lea County, NM, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,320.02Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
9400.00	1.37	114.07	9393.15	-147.41	-41.72	179.69	0.11	184.47	103.07
9500.00	1.28	126.14	9493.13	-149.57	-42.87	181.68	0.29	186.67	103.28
9600.00	1.66	136.65	9593.09	-152.10	-44.58	183.58	0.46	188.91	103.65
9700.00	1.62	132.57	9693.05	-154.95	-46.59	185.61	0.12	191.37	104.09
9800.00	1.30	132.16	9793.02	-157.48	-48.31	187.50	0.32	193.62	104.45
9900.00	0.98	132.58	9893.00	-159.45	-49.65	188.97	0.32	195.38	104.72
10000.00	0.85	135.45	9992.99	-161.04	-50.75	190.12	0.14	196.78	104.95
10100.00	0.84	124.24	10092.98	-162.48	-51.70	191.24	0.17	198.11	105.13
10200.00	0.67	145.76	10192.97	-163.77	-52.59	192.18	0.33	199.24	105.30
10300.00	0.77	156.72	10292.96	-164.99	-53.69	192.77	0.17	200.11	105.56
10400.00	0.89	147.34	10392.95	-166.41	-54.96	193.46	0.18	201.11	105.86
10500.00	1.04	160.44	10492.93	-168.03	-56.47	194.18	0.27	202.23	106.22
10600.00	1.06	149.87	10592.92	-169.79	-58.13	194.95	0.19	203.43	106.60
10700.00	1.04	156.74	10692.90	-171.57	-59.76	195.77	0.13	204.69	106.98
10800.00	1.26	177.44	10792.88	-173.31	-61.69	196.18	0.47	205.65	107.46
10900.00	1.85	172.48	10892.84	-175.55	-64.39	196.44	0.60	206.72	108.15
11000.00	1.88	185.80	10992.79	-178.05	-67.62	196.48	0.43	207.80	108.99
11100.00	2.26	187.30	11092.73	-180.54	-71.21	196.07	0.38	208.60	109.96
11200.00	2.28	181.47	11192.65	-183.36	-75.16	195.77	0.23	209.70	111.00
11300.00	2.45	185.39	11292.56	-186.36	-79.27	195.51	0.23	210.97	112.07
11400.00	3.18	187.19	11392.44	-189.75	-84.15	194.97	0.74	212.35	113.35
11500.00	3.81	187.19	11492.25	-193.89	-90.20	194.20	0.63	214.13	114.91
11600.00	3.91	194.83	11592.03	-198.11	-96.79	192.92	0.52	215.84	116.64
11700.00	3.10	185.83	11691.84	-201.96	-102.78	191.77	0.98	217.57	118.19
11773.00	2.94	180.82	11764.74	-204.76	-106.61	191.54	0.42	219.21	119.10



Scientific
Drilling

Field: WLSU

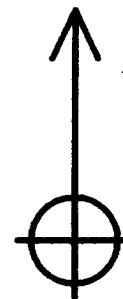
Site: Lea County, NM

Well: WLSU #8

Wellpath: ST - Job #32K0706555/643/640

Survey: 07/12/06

G/T/M



Azimuths to Grid North

True North: 0.00°

Magnetic North: 0.00°

Magnetic Field

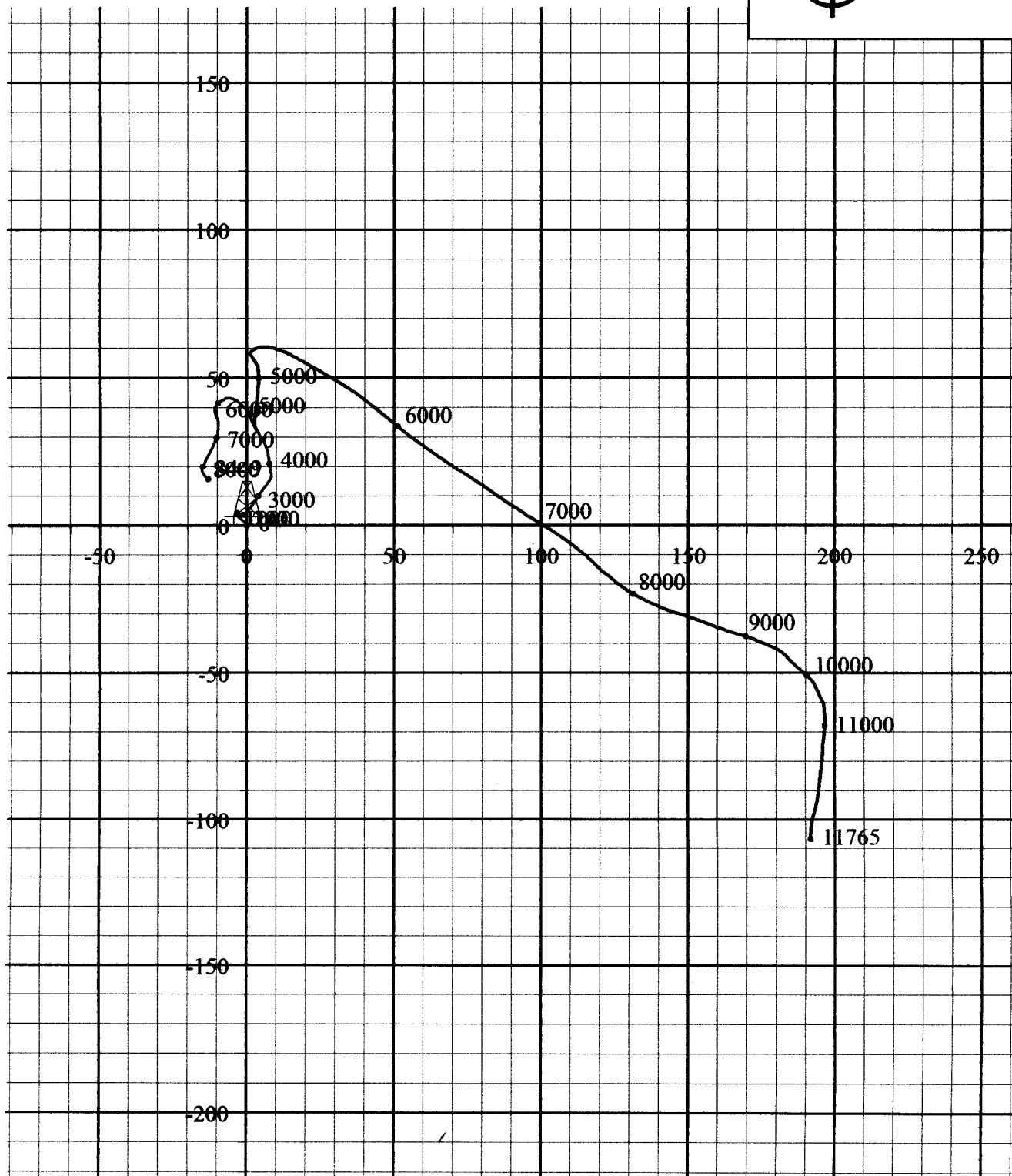
Strength: 0nT

Dip Angle: 0.00°

Date: 08/09/2006

Model: igrf2000

South(-)/North(+) [50ft/in]



West(-)/East(+) [50ft/in]