

Scientific Drilling International

Survey Completion Report

Company: E.O.G. RESOURCES		Date: 7/31/2006	Time: 12:24:06	Page: 1
Field: Stevens County Kansas		Co-ordinate(NE) Reference: Well: Sullins 34 2H Morrow, Grid North		
Site: Section 34 - 32S - 36W		Vertical (TVD) Reference: SITE 34 2H 3H 3062.0		
Well: Sullins 34 2H Morrow		Section (VS) Reference: Well (0.00N,0.00E,180.00Azi)		
Wellpath: Original Wellpath		Survey Calculation Method: Minimum Curvature Db: Sybase		

Survey:	Start Date:
Company:	Engineer:
Tool:	Tied-to:

Field: Stevens County Kansas Stevens County Kansas		Map Zone: Kansas, Southern Zone	
Map System: US State Plane Coordinate System 1927		Coordinate System: Well Centre	
Geo Datum: NAD27 (Clarke 1866)		Geomagnetic Model: igrf2005	
Sys Datum: Mean Sea Level			

Site: Section 34 - 32S - 36W Stevens County Kansas Section 34 - 32S - 36W			
Site Position:	Northing: 65707.26 m	Latitude: 37 13 36.479 N	
From: Map	Easting: 367514.43 m	Longitude: 101 13 41.286 W	
Position Uncertainty: 0.0 ft		North Reference: Grid	
Ground Level: 0.0 ft		Grid Convergence: -1.68 deg	

Well: Sullins 34 2H Morrow Sullins 34 2H Morrow 150 FSL 455 FWL			
Well Position: +N/-S 570.0 ft		Northing: 65881.00 m	Latitude: 37 13 42.096 N
+E/-W -55.0 ft		Easting: 367497.66 m	Longitude: 101 13 42.172 W
Position Uncertainty: 0.0 ft			

Wellpath: Original Wellpath Original Wellpath of Sullins 34 2H		Drilled From: Surface
Current Datum: SITE 34 2H 3H	Height 3062.0 ft	Tie-on Depth: 0.0 ft
Magnetic Data: 5/23/2006		Above System Datum: Mean Sea Level
Field Strength: 52341 nT		Declination: 7.35 deg
Vertical Section: Depth From (TVD)	+N/-S	Mag Dip Angle: 65.15 deg
ft	ft	ft
0.0	0.0	0.0
		180.00

Survey										
MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	ClsD ft	ClsA deg	Comment
0.0	0.00	180.00	0.0	0.0	0.0	0.0	0.00	0.0	0.00	
100.0	0.43	265.14	100.0	0.0	-0.4	0.0	0.43	0.4	265.14	
200.0	0.52	235.47	200.0	-0.3	-1.1	0.3	0.26	1.2	254.04	
300.0	0.30	213.66	300.0	-0.8	-1.6	0.8	0.27	1.8	244.12	
400.0	0.36	173.42	400.0	-1.3	-1.7	1.3	0.23	2.2	232.84	
500.0	0.86	97.50	500.0	-1.7	-1.0	1.7	0.85	2.0	209.19	
600.0	0.99	103.51	600.0	-2.0	0.6	2.0	0.16	2.1	163.21	
700.0	1.34	133.03	700.0	-3.0	2.3	3.0	0.68	3.8	142.74	
800.0	1.34	133.51	799.9	-4.6	4.0	4.6	0.01	6.1	139.14	
900.0	1.25	133.05	899.9	-6.2	5.7	6.2	0.09	8.4	137.57	
1000.0	0.97	130.98	999.9	-7.5	7.1	7.5	0.28	10.3	136.55	
1100.0	0.18	142.61	1099.9	-8.2	7.8	8.2	0.79	11.3	136.22	
1200.0	0.50	172.73	1199.9	-8.7	8.0	8.7	0.36	11.8	137.56	
1300.0	0.64	189.72	1299.9	-9.7	7.9	9.7	0.22	12.5	140.73	
1400.0	0.72	186.26	1399.9	-10.9	7.8	10.9	0.09	13.4	144.45	
1500.0	0.64	186.29	1499.9	-12.1	7.6	12.1	0.08	14.3	147.63	
1600.0	0.62	180.39	1599.8	-13.2	7.6	13.2	0.07	15.2	150.05	
1700.0	0.55	174.82	1699.8	-14.2	7.6	14.2	0.09	16.1	151.74	
1800.0	0.31	184.04	1799.8	-14.9	7.6	14.9	0.25	16.8	152.88	
1900.0	0.47	172.40	1899.8	-15.6	7.7	15.6	0.18	17.4	153.79	
2000.0	0.23	155.24	1999.8	-16.2	7.8	16.2	0.26	18.0	154.22	
2100.0	0.29	181.23	2099.8	-16.6	7.9	16.6	0.13	18.4	154.59	
2200.0	0.33	163.71	2199.8	-17.2	8.0	17.2	0.10	18.9	155.07	
2300.0	0.29	151.94	2299.8	-17.7	8.2	17.7	0.07	19.5	155.16	

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Company: E.O.G. RESOURCES Field: Stevens County Kansas Site: Section 34 - 32S - 36W Well: Sullins 34 2H Morrow Wellpath: Original Wellpath	Date: 7/31/2006 Co-ordinate(NE) Reference: Vertical (TVD) Reference: Section (VS) Reference: Survey Calculation Method:	Time: 12:24:06 Well: Sullins 34 2H Morrow, Grid North SITE 34 2H 3H 3062.0 Well (0.00N,0.00E,180.00Azi) Minimum Curvature	Page: 2 Db: Sybase
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Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	ClbD ft	ClbA deg	Comment
2400.0	0.04	180.18	2399.8	-17.9	8.3	17.9	0.26	19.7	155.16	
2500.0	0.22	164.09	2499.8	-18.1	8.3	18.1	0.18	20.0	155.29	
2600.0	0.44	157.46	2599.8	-18.7	8.5	18.7	0.22	20.5	155.41	
2700.0	0.51	165.60	2699.8	-19.5	8.8	19.5	0.10	21.4	155.66	
2800.0	0.60	159.72	2799.8	-20.4	9.1	20.4	0.11	22.3	155.95	
2900.0	0.51	171.17	2899.8	-21.3	9.3	21.3	0.14	23.3	156.33	
3000.0	0.48	168.19	2999.8	-22.2	9.5	22.2	0.04	24.1	156.80	
3100.0	0.34	184.50	3099.8	-22.9	9.6	22.9	0.18	24.8	157.31	
3200.0	0.43	133.63	3199.8	-23.4	9.8	23.4	0.34	25.4	157.28	
3300.0	0.29	162.44	3299.8	-23.9	10.2	23.9	0.22	26.0	157.00	
3400.0	0.44	136.93	3399.8	-24.4	10.5	24.4	0.22	26.6	156.76	
3500.0	0.19	128.40	3499.8	-24.8	10.9	24.8	0.25	27.1	156.32	
3600.0	0.39	124.18	3599.8	-25.1	11.3	25.1	0.20	27.5	155.78	
3700.0	0.71	144.41	3699.8	-25.8	11.9	25.8	0.37	28.4	155.18	
3800.0	0.73	136.67	3799.8	-26.8	12.7	26.8	0.10	29.7	154.56	
3900.0	1.13	144.53	3899.8	-28.1	13.7	28.1	0.42	31.2	153.89	
4000.0	0.89	145.97	3999.8	-29.5	14.8	29.5	0.24	33.0	153.43	
4100.0	0.45	152.95	4099.8	-30.5	15.4	30.5	0.45	34.1	153.25	
4200.0	0.41	130.28	4199.8	-31.1	15.8	31.1	0.17	34.9	153.02	
4300.0	0.43	127.33	4299.7	-31.5	16.4	31.5	0.03	35.5	152.53	
4400.0	0.33	122.94	4399.7	-31.9	16.9	31.9	0.10	36.1	152.05	
4500.0	0.14	75.16	4499.7	-32.0	17.3	32.0	0.26	36.4	151.65	
4600.0	0.28	72.23	4599.7	-31.9	17.6	31.9	0.14	36.5	151.08	
4700.0	0.67	74.78	4699.7	-31.7	18.4	31.7	0.39	36.7	149.82	
4800.0	0.56	74.46	4799.7	-31.4	19.5	31.4	0.11	37.0	148.21	
4900.0	0.35	92.65	4899.7	-31.3	20.2	31.3	0.25	37.3	147.10	
5000.0	0.50	56.91	4999.7	-31.1	20.9	31.1	0.30	37.5	146.06	
5100.0	0.65	45.67	5099.7	-30.4	21.7	30.4	0.19	37.4	144.53	
5200.0	1.05	34.47	5199.7	-29.3	22.6	29.3	0.43	37.0	142.33	
5300.0	1.34	49.81	5299.7	-27.8	24.0	27.8	0.43	36.7	139.15	
5380.0	1.29	58.21	5379.7	-26.7	25.5	26.7	0.25	36.9	136.32	
5410.0	1.51	76.43	5409.7	-26.4	26.2	26.4	1.65	37.2	135.28	
5442.0	3.01	125.85	5441.6	-26.8	27.3	26.8	7.28	38.3	134.53	
5474.0	6.35	143.49	5473.5	-28.7	29.0	28.7	11.25	40.8	134.74	
5506.0	9.97	150.38	5505.2	-32.6	31.4	32.6	11.70	45.3	136.03	
5536.0	14.16	153.66	5534.5	-38.1	34.3	38.1	14.15	51.3	137.99	
5568.0	18.38	157.68	5565.2	-46.3	38.0	46.3	13.64	59.9	140.63	
5599.0	22.41	160.47	5594.3	-56.4	41.8	56.4	13.37	70.2	143.44	
5631.0	25.94	165.60	5623.5	-68.9	45.6	68.9	12.83	82.7	146.51	
5663.0	29.30	170.59	5651.8	-83.4	48.6	83.4	12.74	96.6	149.77	
5694.0	32.78	175.26	5678.4	-99.3	50.6	99.3	13.64	111.4	153.01	
5726.0	35.68	179.61	5704.9	-117.3	51.3	117.3	11.85	128.0	156.35	
5757.0	38.88	182.67	5729.5	-136.0	51.0	136.0	11.93	145.3	159.47	
5788.0	42.84	184.88	5753.0	-156.3	49.6	156.3	13.60	163.9	162.39	
5820.0	46.19	184.27	5775.8	-178.6	47.8	178.6	10.55	184.9	165.01	
5851.0	49.62	183.20	5796.6	-201.6	46.3	201.6	11.36	206.8	167.06	
5882.0	53.27	183.82	5815.9	-225.8	44.8	225.8	11.88	230.2	168.77	
5914.0	56.33	184.97	5834.3	-251.8	42.8	251.8	10.00	255.4	170.35	
5945.0	58.72	186.46	5851.0	-277.9	40.2	277.9	8.71	280.7	171.76	
5977.0	60.45	187.05	5867.2	-305.3	37.0	305.3	5.64	307.5	173.09	
6004.0	61.49	188.26	5880.3	-328.6	33.8	328.6	5.49	330.4	174.12	
6035.0	62.72	188.17	5894.8	-355.8	29.9	355.8	3.98	357.0	175.19	

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 Section (VS) Reference: Well (0.00N,0.00E,180.00Azi)
 Survey Calculation Method: Minimum Curvature Db: Sybase

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MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	ClbD ft	ClbA deg	Comment
6065.0	64.63	187.45	5908.1	-382.4	26.3	382.4	6.72	383.3	176.07	
6096.0	67.18	185.78	5920.7	-410.5	23.0	410.5	9.58	411.2	176.79	
6128.0	70.26	184.46	5932.3	-440.2	20.3	440.2	10.36	440.7	177.35	
6158.0	73.95	184.28	5941.6	-468.7	18.2	468.7	12.31	469.0	177.78	
6190.0	78.26	184.20	5949.2	-499.6	15.9	499.6	13.47	499.9	178.18	
6222.0	82.31	184.02	5954.6	-531.1	13.6	531.1	12.67	531.3	178.53	
6254.0	83.19	183.49	5958.7	-562.8	11.5	562.8	3.20	562.9	178.83	
6283.0	83.89	183.14	5961.9	-591.5	9.9	591.5	2.70	591.6	179.04	
6314.0	84.50	183.32	5965.1	-622.3	8.1	622.3	2.05	622.4	179.25	
6443.0	86.35	182.09	5975.4	-750.8	2.1	750.8	1.72	750.8	179.84	
6474.0	86.97	182.09	5977.2	-781.7	0.9	781.7	2.00	781.7	179.93	
6505.0	88.64	182.17	5978.4	-812.6	-0.2	812.6	5.39	812.6	180.01	
6537.0	88.81	181.91	5979.1	-844.6	-1.3	844.6	0.97	844.6	180.09	
6569.0	88.55	182.00	5979.8	-876.6	-2.4	876.6	0.86	876.6	180.16	
6601.0	88.64	180.50	5980.6	-908.6	-3.1	908.6	4.69	908.6	180.20	
6632.0	88.46	180.50	5981.4	-939.6	-3.4	939.6	0.58	939.6	180.21	
6664.0	88.64	179.89	5982.2	-971.6	-3.5	971.6	1.99	971.6	180.21	
6696.0	88.11	178.22	5983.1	-1003.5	-3.0	1003.5	5.47	1003.5	180.17	
6727.0	87.93	178.66	5984.2	-1034.5	-2.1	1034.5	1.53	1034.5	180.12	
6759.0	88.90	178.57	5985.1	-1066.5	-1.4	1066.5	3.04	1066.5	180.07	
6791.0	89.16	178.22	5985.6	-1098.5	-0.5	1098.5	1.36	1098.5	180.02	
6823.0	88.64	177.87	5986.2	-1130.4	0.6	1130.4	1.96	1130.4	179.97	
6855.0	88.64	178.04	5987.0	-1162.4	1.8	1162.4	0.53	1162.4	179.91	
6886.0	89.69	178.31	5987.4	-1193.4	2.7	1193.4	3.50	1193.4	179.87	
6918.0	90.31	178.92	5987.4	-1225.4	3.5	1225.4	2.72	1225.4	179.84	
6949.0	90.84	178.48	5987.1	-1256.4	4.2	1256.4	2.22	1256.4	179.81	
6980.0	90.22	177.69	5986.8	-1287.4	5.3	1287.4	3.24	1287.4	179.77	
7011.0	90.04	177.08	5986.8	-1318.3	6.7	1318.3	2.05	1318.3	179.71	
7043.0	90.13	177.16	5986.7	-1350.3	8.3	1350.3	0.38	1350.3	179.65	
7074.0	90.66	176.90	5986.5	-1381.2	9.9	1381.2	1.90	1381.3	179.59	
7106.0	91.45	177.16	5985.9	-1413.2	11.5	1413.2	2.60	1413.2	179.53	
7138.0	91.54	177.16	5985.1	-1445.1	13.1	1445.1	0.28	1445.2	179.48	
7170.0	91.80	176.81	5984.1	-1477.1	14.8	1477.1	1.36	1477.2	179.43	
7202.0	91.80	176.64	5983.1	-1509.0	16.6	1509.0	0.53	1509.1	179.37	
7234.0	91.63	176.90	5982.2	-1540.9	18.4	1540.9	0.97	1541.1	179.31	
7265.0	91.98	177.34	5981.2	-1571.9	20.0	1571.9	1.81	1572.0	179.27	
7297.0	91.98	177.52	5980.1	-1603.8	21.4	1603.8	0.56	1604.0	179.23	
7328.0	91.71	178.22	5979.1	-1634.8	22.6	1634.8	2.42	1635.0	179.21	
7360.0	91.89	178.22	5978.1	-1666.8	23.6	1666.8	0.56	1666.9	179.19	
7392.0	91.36	179.01	5977.2	-1698.7	24.3	1698.7	2.97	1698.9	179.18	
7424.0	89.69	179.80	5976.9	-1730.7	24.7	1730.7	5.77	1730.9	179.18	
7456.0	89.43	180.07	5977.1	-1762.7	24.7	1762.7	1.17	1762.9	179.20	
7487.0	89.43	180.15	5977.4	-1793.7	24.7	1793.7	0.26	1793.9	179.21	
7519.0	89.60	180.15	5977.7	-1825.7	24.6	1825.7	0.53	1825.9	179.23	
7551.0	89.43	180.42	5978.0	-1857.7	24.4	1857.7	1.00	1857.9	179.25	
7583.0	90.13	180.68	5978.1	-1889.7	24.1	1889.7	2.33	1889.9	179.27	
7614.0	90.40	181.21	5978.0	-1920.7	23.6	1920.7	1.92	1920.9	179.30	
7645.0	90.92	180.68	5977.6	-1951.7	23.1	1951.7	2.40	1951.9	179.32	
7677.0	90.66	180.42	5977.2	-1983.7	22.8	1983.7	1.15	1983.9	179.34	
7709.0	90.40	180.59	5976.9	-2015.7	22.5	2015.7	0.97	2015.8	179.36	
7741.0	91.19	179.89	5976.4	-2047.7	22.4	2047.7	3.30	2047.8	179.37	
7773.0	91.45	180.77	5975.7	-2079.7	22.2	2079.7	2.87	2079.8	179.39	
7805.0	91.01	179.27	5975.0	-2111.7	22.2	2111.7	4.88	2111.8	179.40	

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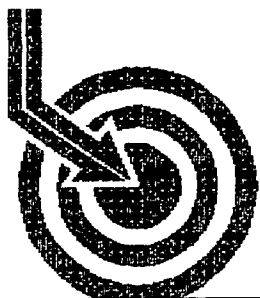
Company: E.O.G. RESOURCES Field: Stevens County Kansas Site: Section 34 - 32S - 36W Well: Sullins 34 2H Morrow Wellpath: Original Wellpath	Date: 7/31/2006 Time: 12:24:06 Page: 4 Co-ordinate(NE) Reference: Well: Sullins 34 2H Morrow, Grid North Vertical (TVD) Reference: SITE 34 2H 3H 3062.0 Section (VS) Reference: Well (0.00N,0.00E,180.00Azi) Survey Calculation Method: Minimum Curvature Db: Sybase
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MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	ClsD ft	ClsA deg	Comment
7837.0	91.54	180.42	5974.3	-2143.7	22.3	2143.7	3.96	2143.8	179.41	
7869.0	92.51	181.03	5973.2	-2175.7	21.8	2175.7	3.58	2175.8	179.42	
7900.0	93.03	181.38	5971.7	-2206.6	21.2	2206.6	2.02	2206.7	179.45	
7931.0	92.95	180.94	5970.0	-2237.6	20.6	2237.6	1.44	2237.7	179.47	
7963.0	92.51	182.00	5968.5	-2269.5	19.7	2269.5	3.58	2269.6	179.50	
7995.0	92.86	182.00	5967.0	-2301.5	18.6	2301.5	1.09	2301.5	179.54	
8027.0	93.30	182.35	5965.3	-2333.4	17.4	2333.4	1.76	2333.5	179.57	
8059.0	92.77	180.86	5963.6	-2365.3	16.5	2365.3	4.94	2365.4	179.60	
8091.0	92.86	180.86	5962.0	-2397.3	16.0	2397.3	0.28	2397.4	179.62	
8123.0	93.47	181.30	5960.3	-2429.2	15.4	2429.2	2.35	2429.3	179.64	
8154.0	93.65	181.21	5958.3	-2460.2	14.8	2460.2	0.65	2460.2	179.66	
8186.0	94.44	181.74	5956.1	-2492.1	13.9	2492.1	2.97	2492.1	179.68	
8217.0	95.14	182.26	5953.5	-2523.0	12.9	2523.0	2.81	2523.0	179.71	
8249.0	94.44	181.38	5950.8	-2554.8	11.9	2554.8	3.51	2554.9	179.73	
8280.0	94.53	181.38	5948.4	-2585.7	11.1	2585.7	0.29	2585.8	179.75	
8311.0	95.32	181.82	5945.7	-2616.6	10.2	2616.6	2.91	2616.6	179.78	
8343.0	95.14	181.03	5942.8	-2648.5	9.5	2648.5	2.52	2648.5	179.80	
8373.0	94.35	180.50	5940.3	-2678.4	9.1	2678.4	3.17	2678.4	179.81	
8405.0	94.18	179.54	5938.0	-2710.3	9.0	2710.3	3.04	2710.3	179.81	
8437.0	94.26	179.71	5935.6	-2742.2	9.3	2742.2	0.59	2742.2	179.81	
8469.0	94.26	179.19	5933.2	-2774.1	9.6	2774.1	1.62	2774.1	179.80	
8501.0	94.79	179.01	5930.7	-2806.0	10.1	2806.0	1.75	2806.0	179.79	
8533.0	94.53	178.75	5928.1	-2837.9	10.7	2837.9	1.15	2837.9	179.78	
8565.0	95.23	179.98	5925.4	-2869.8	11.0	2869.8	4.41	2869.8	179.78	
8588.0	95.43	179.39	5923.2	-2892.7	11.2	2892.7	2.68	2892.7	179.78	Closure 2892.7' @ 17
8596.0	95.50	179.19	5922.5	-2900.6	11.3	2900.6	2.68	2900.6	179.78	
8608.0	95.50	179.80	5921.3	-2912.6	11.4	2912.6	5.06	2912.6	179.78	
8663.0	95.50	179.80	5916.1	-2967.3	11.6	2967.3	0.00	2967.3	179.78	

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Scientific Drilling

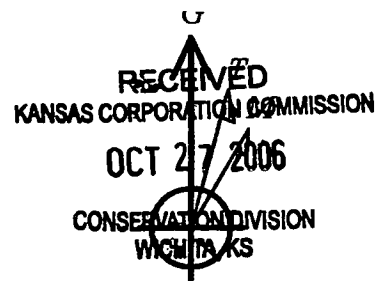
KCC

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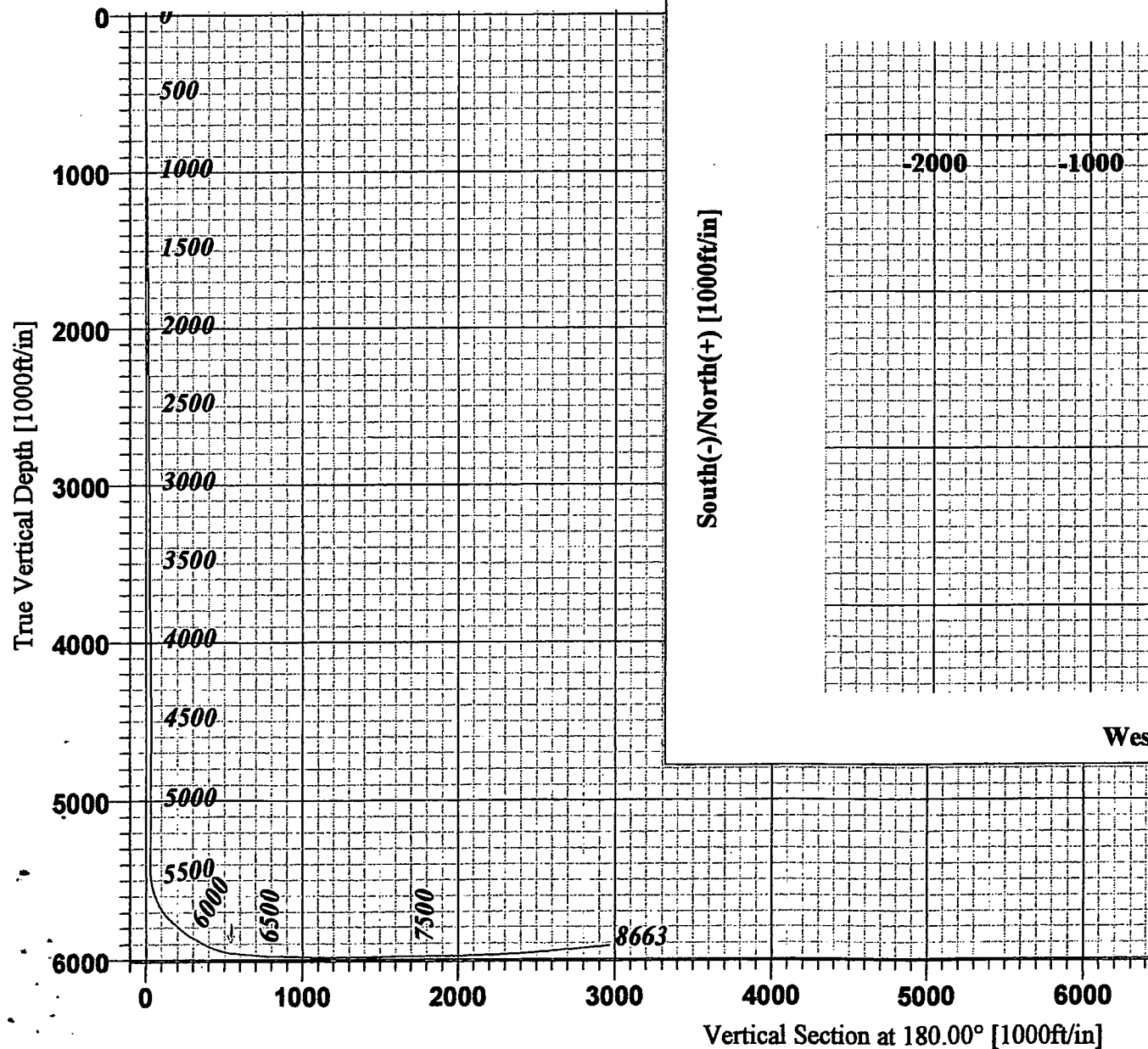
E.O.G. RESOURCES

Field: Stevens County Kansas
Site: Section 34 - 32S - 36W
Well: Sullins 34 2H Morrow
Wellpath: Original Wellpath

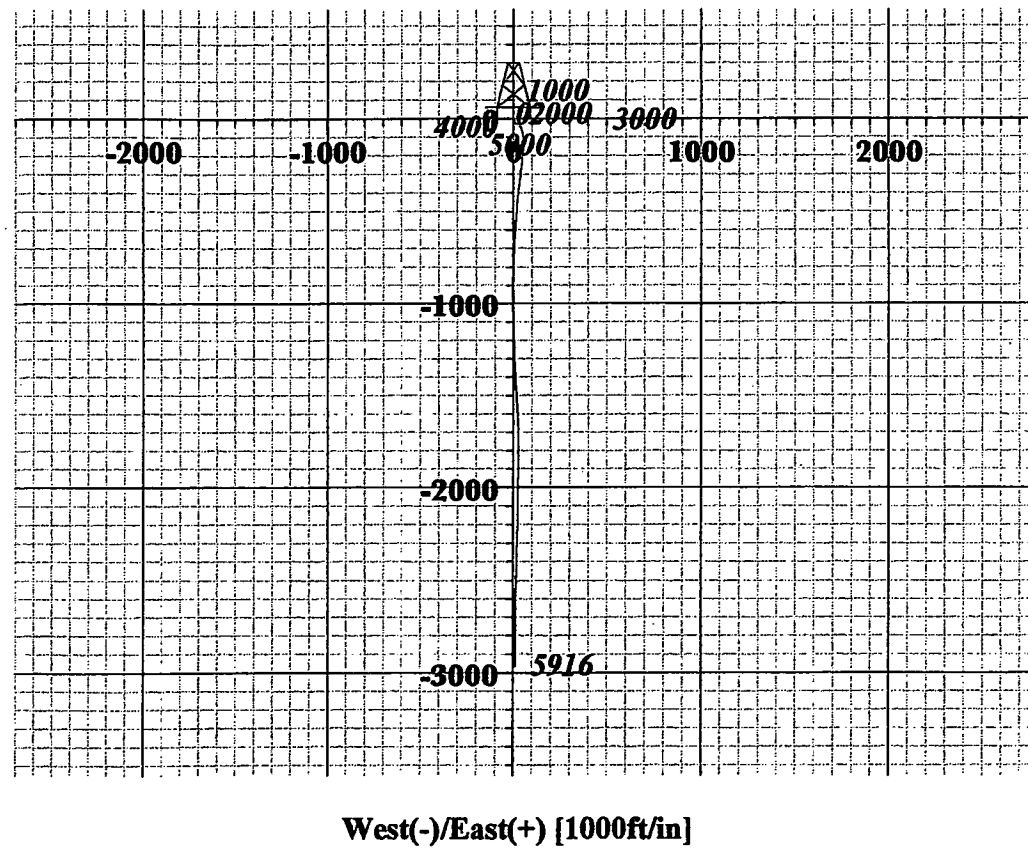


Azimuths to Grid North
True North: 1.68°
Magnetic North: 9.03°

Magnetic Field
Strength: 52341nT
Dip Angle: 65.15°
Date: 5/23/2006
Model: igrf2005



South(-)/North(+) [1000ft/in]



West(-)/East(+) [1000ft/in]

Bottom Hole Location from Surface
5916.1' TVD 2967.3' South & 11.6' East

Bottom Hole Vertical Section
8663.0' MD 2967.3 feet @ 179.80 Azimuth

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

Company Representative