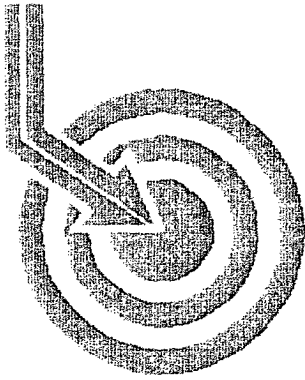




Scientific Drilling

E.O.G.

Field: Ranger
Site: Eddy County, NM
Well: Ranger 7 Fed Com #4H
Wellpath: VH - Job #32K0806667
Survey: 08/17/06

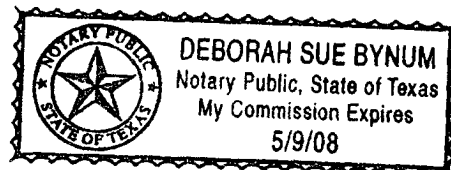
This survey is correct to the best of my knowledge
and is supported by actual field data.

.....R. Wharta..... Company Representative

Notorized this date 7th of September, 2006.

Deborah Sue Bynum
Notary Signature

County of Midland
State of Texas





Scientific
Drilling

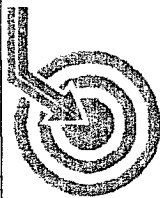
Scientific Drilling International Survey Report

Company: E.O.G.	Date: 09/06/2006	Time: 14:30:30	Page: 1
Field: Ranger	Co-ordinate(NE) Reference:	Site: Eddy County, NM, Grid North	
Site: Eddy County, NM	Vertical (TVD) Reference:	SITE 0.0	
Well: Ranger 7 Fed Com #4H	Section (VS) Reference:	Well (0.00N,0.00E,184.16Azi)	
Wellpath: VH - Job #32K0806667	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: 08/17/06	Start Date: 08/17/2006
Company: KSRG 0'-8000'	
Tool: Scientific Drilling Internatio	Engineer: Lilja w/
Keeper;Keeper Surface Readout Gyro	Tied-to: From Surface

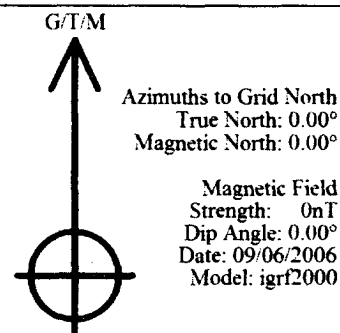
Survey

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	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.11	116.22	100.00	0.04	-0.04	0.09	0.11	0.10	116.22
200.00	0.23	81.29	200.00	0.03	-0.05	0.37	0.15	0.37	98.35
300.00	0.46	21.04	300.00	-0.40	0.35	0.71	0.40	0.79	63.82
400.00	0.57	4.08	399.99	-1.28	1.22	0.89	0.19	1.51	36.16
500.00	0.55	12.90	499.99	-2.25	2.19	1.04	0.09	2.42	25.35
600.00	0.66	9.14	599.98	-3.30	3.22	1.23	0.12	3.45	20.95
700.00	0.63	11.23	699.98	-4.42	4.33	1.43	0.04	4.56	18.31
800.00	0.69	8.84	799.97	-5.57	5.46	1.63	0.07	5.70	16.63
900.00	0.64	8.00	899.96	-6.73	6.61	1.80	0.05	6.85	15.25
1000.00	0.64	17.09	999.96	-7.83	7.70	2.04	0.10	7.97	14.87
1100.00	0.81	34.69	1099.95	-8.98	8.81	2.61	0.28	9.19	16.50
1200.00	0.73	30.28	1199.94	-10.16	9.95	3.33	0.10	10.49	18.53
1300.00	0.78	42.75	1299.93	-11.26	11.00	4.12	0.17	11.74	20.53
1400.00	0.65	33.09	1399.92	-12.29	11.97	4.89	0.18	12.93	22.22
1500.00	0.52	44.05	1499.92	-13.14	12.77	5.51	0.17	13.91	23.35
1600.00	0.33	26.40	1599.92	-13.75	13.36	5.96	0.23	14.62	24.04
1700.00	0.26	25.32	1699.92	-14.23	13.82	6.18	0.07	15.14	24.10
1800.00	0.21	357.75	1799.91	-14.62	14.21	6.27	0.12	15.53	23.82
1900.00	0.13	354.83	1899.91	-14.92	14.50	6.26	0.08	15.79	23.33
2000.00	0.26	337.55	1999.91	-15.23	14.83	6.16	0.14	16.05	22.56
2100.00	0.15	16.45	2099.91	-15.56	15.16	6.11	0.17	16.35	21.95
2200.00	0.15	358.87	2199.91	-15.82	15.42	6.14	0.05	16.60	21.73
2300.00	0.33	290.15	2299.91	-16.03	15.65	5.87	0.31	16.71	20.56
2400.00	0.46	283.03	2399.91	-16.17	15.84	5.21	0.14	16.67	18.21
2500.00	0.35	265.86	2499.91	-16.19	15.91	4.51	0.16	16.53	15.84
2600.00	0.58	274.50	2599.90	-16.15	15.92	3.70	0.24	16.35	13.09
2700.00	0.63	264.53	2699.90	-16.06	15.91	2.65	0.12	16.13	9.46
2800.00	0.55	264.70	2799.89	-15.89	15.81	1.63	0.08	15.90	5.87
2900.00	0.71	261.34	2899.89	-15.67	15.68	0.54	0.16	15.69	1.96
3000.00	0.61	259.39	2999.88	-15.40	15.48	-0.60	0.10	15.50	357.78
3100.00	0.65	265.58	3099.87	-15.18	15.34	-1.69	0.08	15.44	353.72
3200.00	0.63	253.42	3199.87	-14.90	15.14	-2.78	0.14	15.40	349.60
3300.00	0.74	249.20	3299.86	-14.43	14.76	-3.91	0.12	15.27	345.16
3400.00	0.67	237.80	3399.85	-13.81	14.22	-5.01	0.16	15.07	340.59
3500.00	0.78	239.05	3499.84	-13.08	13.55	-6.09	0.11	14.86	335.81
3600.00	0.65	234.90	3599.84	-12.33	12.88	-7.14	0.14	14.72	331.01
3700.00	0.68	243.55	3699.83	-11.67	12.29	-8.13	0.10	14.73	326.51
3800.00	0.65	235.71	3799.82	-11.01	11.70	-9.13	0.10	14.84	322.04
3900.00	0.64	232.85	3899.82	-10.29	11.05	-10.04	0.03	14.93	317.72
4000.00	0.74	233.73	3999.81	-9.50	10.33	-11.01	0.10	15.10	313.17
4100.00	0.68	236.57	4099.80	-8.72	9.62	-12.03	0.07	15.40	308.65
4200.00	0.65	239.53	4199.80	-8.04	9.00	-13.01	0.05	15.82	304.68
4300.00	0.67	239.66	4299.79	-7.38	8.42	-14.00	0.02	16.34	301.02
4400.00	0.63	245.05	4399.78	-6.78	7.89	-15.01	0.07	16.96	297.74
4500.00	0.75	248.17	4499.78	-6.23	7.42	-16.11	0.13	17.74	294.72
4600.00	0.89	250.35	4599.76	-5.63	6.91	-17.45	0.14	18.77	291.61
4700.00	0.81	256.11	4699.75	-5.10	6.48	-18.87	0.12	19.95	288.96
4800.00	0.87	257.54	4799.74	-4.66	6.15	-20.30	0.06	21.21	286.86

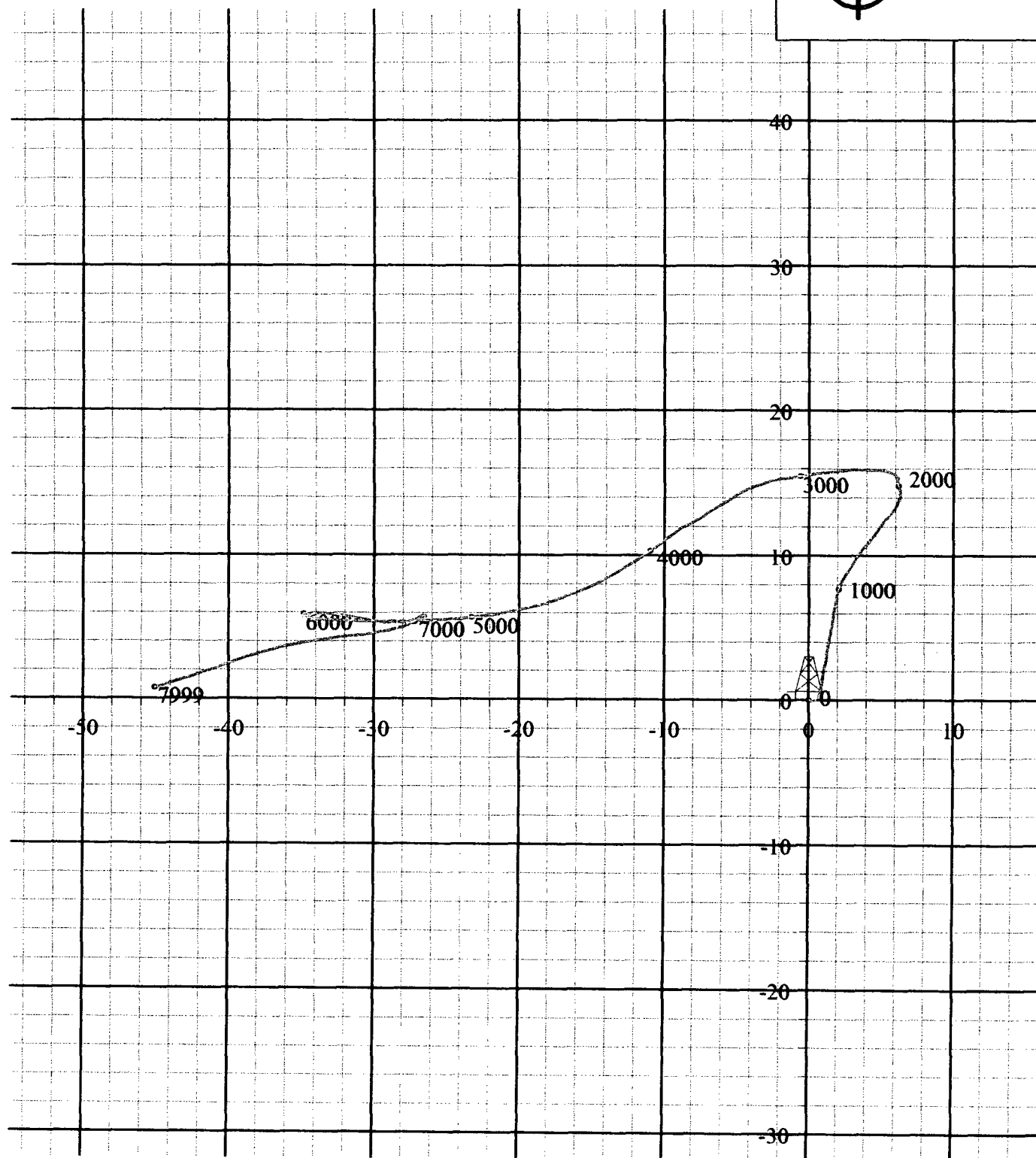


Scientific
Drilling

Field: Ranger
Site: Eddy County, NM
Well: Ranger 7 Fed Com #4H
Wellpath: VH - Job #32K0806667
Survey: 08/17/06



South(-)/North(+) [10ft/in]



West(-)/East(+) [10ft/in]

Actual Path

TMD	DEG	AZI	TVD	N/S	E/W	VS	DLS
7300	0.8	259.4	7299.55	4.58	-30.17	-2.99	-999.25
7376	1.06	237.12	7375.54	4.1	-31.28	-2.45	0.58
7407	2.37	213.95	7406.53	3.41	-31.88	-1.73	4.7
7439	5.36	200.12	7438.45	1.46	-32.76	0.26	9.72
7470	8.79	195.02	7469.21	-2.19	-33.88	3.96	11.24
7501	12.84	193.08	7499.65	-7.83	-35.27	9.67	13.12
7532	16.62	192.61	7529.63	-15.52	-37.02	17.44	12.2
7564	21.19	191.72	7559.89	-25.65	-39.19	27.67	14.31
7595	25.41	191.89	7588.36	-37.65	-41.7	39.79	13.61
7626	29.28	190.95	7615.89	-51.61	-44.51	53.87	12.56
7657	33.5	190.58	7642.35	-67.47	-47.53	69.87	13.63
7688	37.81	189.42	7667.53	-85.26	-50.65	87.8	14.07
7719	41.24	186.31	7691.44	-104.8	-53.33	107.45	12.77
7751	44.67	181.24	7714.87	-126.54	-54.74	129.24	15.21
7782	47.4	176.99	7736.39	-148.84	-54.37	151.49	13.22
7813	49.33	177.51	7756.98	-171.98	-53.26	174.54	6.35
7845	51.44	180	7777.39	-196.62	-52.74	199.12	8.91
7876	53.99	181.29	7796.17	-221.28	-53.02	223.76	8.87
7907	57.24	181.66	7813.67	-246.85	-53.68	249.33	10.53
7938	61.03	183.84	7829.57	-273.42	-54.97	275.93	13.63
7969	64.02	185.07	7843.88	-300.84	-57.11	303.42	10.27
8001	66.39	186.32	7857.29	-329.74	-59.99	332.44	8.21
8032	68.5	185.99	7869.18	-358.2	-63.06	361.02	6.88
8063	71.75	185.4	7879.72	-387.21	-65.95	390.14	10.64
8095	75.36	185.03	7888.78	-417.77	-68.74	420.8	11.34
8126	77.82	184.79	7895.97	-447.81	-71.32	450.94	7.97
8157	80.02	185.07	7901.93	-478.12	-73.93	481.34	7.15
8188	81.34	184.08	7906.95	-508.61	-76.37	511.92	5.3
8219	81.69	183.89	7911.52	-539.2	-78.4	542.57	1.28
8250	82.22	183.26	7915.86	-569.83	-80.32	573.26	2.64
8282	83.8	183.55	7919.75	-601.54	-82.2	605.02	5.02
8344	85.03	184.48	7925.79	-663.09	-86.53	666.72	2.48
8407	85.56	183.75	7930.95	-725.71	-91.03	729.49	1.43
8470	86.09	183.39	7935.54	-788.42	-94.94	792.32	1.02
8532	85.12	183.91	7940.29	-850.12	-98.88	854.13	1.77
8594	85.12	183.76	7945.57	-911.75	-103.01	915.9	0.24
8687	85.91	183.07	7952.84	-1004.3	-108.53	1008.62	1.13
8749	84.94	183.76	7957.78	-1065.99	-112.21	1070.41	1.92
8812	84.68	183.91	7963.48	-1128.59	-116.41	1133.15	0.48
8874	84.77	183.76	7969.18	-1190.19	-120.54	1194.88	0.28
8936	84.94	183.78	7974.74	-1251.81	-124.6	1256.63	0.28
8998	84.94	184.14	7980.21	-1313.42	-128.86	1318.38	0.58
9061	84.94	183.98	7985.77	-1376.02	-133.31	1381.12	0.25
9123	85.12	183.87	7991.14	-1437.64	-137.54	1442.88	0.34
9216	85.12	183.8	7999.05	-1530.1	-143.73	1535.53	0.07
9309	84.94	183.52	8007.11	-1622.56	-149.65	1628.18	0.36
9401	83.36	183.19	8016.49	-1713.92	-155	1719.69	1.75
9494	83.98	182.2	8026.74	-1806.25	-159.35	1812.12	1.25
9588	84.5	181.79	8036.17	-1899.71	-162.6	1905.63	0.7
9619	84.68	181.92	8039.1	-1930.56	-163.6	1936.49	0.72
9668	84.68	181.92	8043.64	-1979.32	-165.24	1985.27	0.01