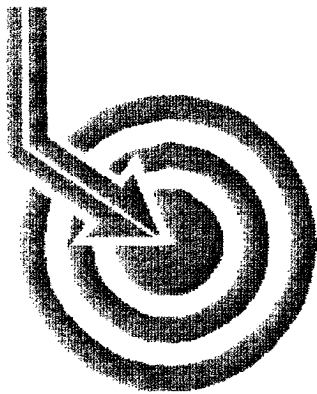
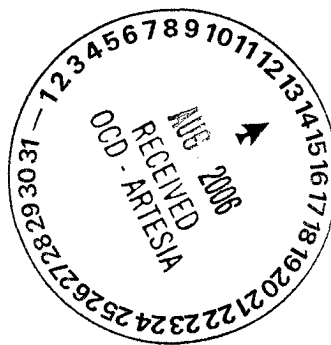




Scientific Drilling



E.O.G.

Field: Rio Grande
Site: Eddy County, NM
Well: Rio Grande 23 Fed #3
Wellpath: VH - Job #32K0506392
Survey: 05/15/06

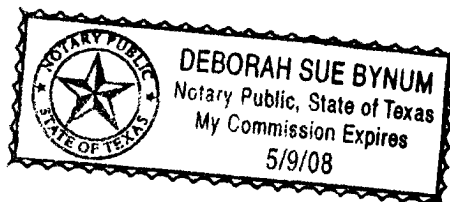
This survey is correct to the best of my knowledge
and is supported by actual field data.

.....*R. Wharton*.....Company Representative

Notorized this date 20th of June, 2006.

Deborah Sue Bynum

Notary Signature
County of Midland
State of Texas





Scientific Drilling International Survey Report

Company: E.O.G. **Date:** 06/20/2006 **Time:** 19:21:34 **Page:** 1
Field: Rio Grande **Co-ordinate(NE) Reference:** Site: Eddy County, NM, Grid North
Site: Eddy County, NM **Vertical (TVD) Reference:** SITE 0.0
Well: Rio Grande 23 Fed #3 **Section (VS) Reference:** Well (0.00N,0.00E,0.35Azi)
Wellpath: VH - Job #32K0506392 **Survey Calculation Method:** Minimum Curvature **Db:** Sybase

Survey: 05/15/06 **Start Date:** 05/15/2006
Company: Scientific Drilling Internatio **Engineer:** Guebara/Carter w/Signal
Tool: Keeper;Keeper Surface Readout Gyro **Tied-to:** From Surface

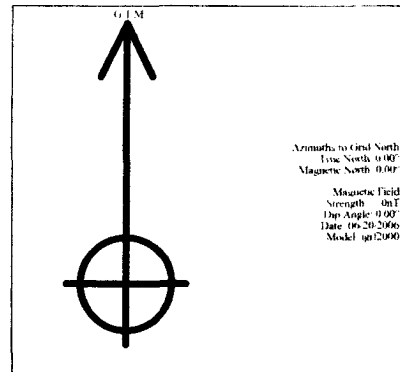
Survey

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	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.27	144.29	100.00	-0.19	-0.19	0.14	0.27	0.24	144.29
200.00	0.46	138.48	200.00	-0.68	-0.68	0.54	0.19	0.87	141.62
300.00	0.76	140.23	299.99	-1.49	-1.49	1.23	0.30	1.94	140.49
400.00	1.01	169.59	399.98	-2.86	-2.87	1.82	0.51	3.40	147.69
500.00	1.46	172.43	499.96	-4.99	-5.00	2.14	0.45	5.44	156.81
600.00	1.20	163.86	599.93	-7.25	-7.27	2.60	0.33	7.72	160.31
700.00	1.28	192.73	699.91	-9.35	-9.36	2.65	0.62	9.73	164.22
800.00	1.38	194.46	799.88	-11.61	-11.62	2.10	0.11	11.81	169.76
900.00	1.40	195.79	899.85	-13.95	-13.96	1.47	0.04	14.04	174.01
1000.00	1.01	208.00	999.83	-15.91	-15.91	0.72	0.46	15.93	177.41
1100.00	1.11	206.02	1099.81	-17.56	-17.56	-0.12	0.11	17.56	180.39
1200.00	1.08	204.03	1199.79	-19.30	-19.29	-0.93	0.05	19.32	182.75
1300.00	0.98	211.62	1299.78	-20.89	-20.88	-1.76	0.17	20.96	184.82
1400.00	1.03	218.19	1399.76	-22.33	-22.32	-2.76	0.13	22.49	187.06
1500.00	0.93	213.58	1499.75	-23.72	-23.70	-3.77	0.13	24.00	189.03
1600.00	0.76	208.38	1599.74	-24.99	-24.96	-4.53	0.19	25.37	190.29
1700.00	0.39	197.46	1699.73	-25.90	-25.87	-4.95	0.38	26.34	190.83
1800.00	0.29	255.10	1799.73	-26.29	-26.26	-5.30	0.34	26.79	191.40
1900.00	0.23	271.94	1899.73	-26.35	-26.32	-5.74	0.10	26.94	192.31
2000.00	0.37	258.28	1999.73	-26.41	-26.38	-6.26	0.16	27.11	193.35
2100.00	0.40	251.57	2099.73	-26.59	-26.55	-6.91	0.05	27.43	194.58
2200.00	0.40	233.06	2199.72	-26.92	-26.87	-7.52	0.13	27.90	195.63
2300.00	0.40	215.89	2299.72	-27.41	-27.36	-8.00	0.12	28.51	196.30
2400.00	0.18	289.24	2399.72	-27.65	-27.59	-8.35	0.39	28.83	196.84
2500.00	0.42	278.32	2499.72	-27.54	-27.49	-8.86	0.25	28.88	197.87
2600.00	0.41	304.65	2599.72	-27.29	-27.23	-9.52	0.19	28.85	199.27
2700.00	0.41	316.79	2699.71	-26.83	-26.77	-10.06	0.09	28.60	200.60
2800.00	0.24	265.43	2799.71	-26.59	-26.53	-10.51	0.32	28.53	201.62
2900.00	0.20	292.89	2899.71	-26.54	-26.47	-10.88	0.11	28.62	202.35
3000.00	0.18	323.70	2999.71	-26.35	-26.28	-11.14	0.10	28.54	202.97
3100.00	0.15	99.15	3099.71	-26.24	-26.17	-11.10	0.31	28.43	202.98
3200.00	0.27	311.95	3199.71	-26.10	-26.04	-11.15	0.40	28.32	203.18
3300.00	0.13	292.88	3299.71	-25.90	-25.84	-11.43	0.15	28.25	203.86
3400.00	0.63	133.01	3399.71	-26.23	-26.17	-11.13	0.75	28.43	203.04
3500.00	0.24	109.02	3499.70	-26.67	-26.61	-10.53	0.42	28.62	201.59
3600.00	1.02	114.13	3599.70	-27.10	-27.04	-9.52	0.78	28.67	199.39
3700.00	0.69	130.88	3699.69	-27.85	-27.80	-8.25	0.41	29.00	196.53
3800.00	0.83	85.25	3799.68	-28.18	-28.13	-7.07	0.60	29.01	194.11
3850.00	0.35	74.69	3849.68	-28.10	-28.06	-6.57	0.98	28.82	193.17



**Scientific
Drilling**

Field: Rio Grande
Site: Eddy County, NM
Well: Rio Grande 23 Fed #3
Wellpath: VH - Job #32K0506392
Survey: 05/15/06



South(-)/North(+) [5ft/in]

West(-)/East(+) [5ft/in]

