Scientific Drilling

E.O.G.

Field: Rhine
Site: Eddy County, NM
Well: Rhine 13 Fed #1H
Wellpath: VH- Job #32K0705559
Survey: 07/29/05

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

.....Company Representative

Notorized this date 11th of August, 2005.

Deborah Sue Bynum
Notary Signature
County of Midland
State of Texas

NOTARY PUBLIC STATE OF TEXAS
DEBORAH SUE BYNUM
Notary Public, State of Texas
My Commission Expires
5/9/08

Scientific Drilling

Scientific Drilling International
Survey Report

Company:	E.O.G.	**Date:** 8/11/2005	**Time:** 11:32:44	**Page:**	1
Field:	Rhine	**Co-ordinate(NE) Reference:**	Site: Eddy County, NM, Grid North		
Site:	Eddy County, NM	**Vertical (TVD) Reference:**	SITE 0.0		
Well:	Rhine 13 Fed #1H	**Section (VS) Reference:**	Well (0.00N,0.00E,356.69Azi)		
Wellpath:	VH- Job #32K0705559	**Survey Calculation Method:**	Minimum Curvature	**Db:**	Sybase

Survey:	07/29/05 KSRG 0'-4955'	**Start Date:**	7/29/2005
Company:	Scientific Drilling Internatio	**Engineer:**	Gonzales/Page
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	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.50	240.09	100.00	-0.20	-0.22	-0.38	0.50	0.44	240.09
200.00	0.44	270.88	200.00	-0.36	-0.43	-1.14	0.26	1.22	249.37
300.00	0.69	317.73	299.99	0.13	0.02	-1.93	0.50	1.93	270.66
400.00	0.90	339.53	399.98	1.35	1.20	-2.61	0.36	2.87	294.76
500.00	1.08	348.59	499.97	3.04	2.86	-3.07	0.24	4.20	313.00
600.00	1.99	346.78	599.93	5.68	5.48	-3.65	0.91	6.58	326.29
700.00	2.05	346.09	699.87	9.15	8.90	-4.48	0.06	9.97	333.29
800.00	2.08	350.24	799.80	12.71	12.43	-5.22	0.15	13.48	337.22
900.00	2.26	347.86	899.73	16.46	16.14	-5.94	0.20	17.20	339.80
1000.00	2.26	349.46	999.65	20.37	20.01	-6.72	0.06	21.11	341.45
1100.00	2.25	348.60	1099.58	24.26	23.87	-7.46	0.04	25.01	342.64
1200.00	2.23	345.96	1199.50	28.12	27.68	-8.32	0.11	28.91	343.26
1300.00	2.10	346.04	1299.43	31.83	31.35	-9.24	0.13	32.68	343.58
1400.00	2.15	346.05	1399.36	35.48	34.95	-10.13	0.05	36.39	343.83
1500.00	2.12	345.08	1499.29	39.13	38.56	-11.06	0.05	40.11	343.99
1600.00	1.95	348.56	1599.23	42.63	42.01	-11.87	0.21	43.66	344.22
1700.00	1.94	348.38	1699.17	45.99	45.34	-12.55	0.01	47.04	344.52
1800.00	2.02	347.25	1799.11	49.40	48.71	-13.28	0.09	50.49	344.75
1900.00	2.12	350.39	1899.04	52.98	52.26	-13.98	0.15	54.09	345.02
2000.00	1.99	349.14	1998.98	56.54	55.79	-14.62	0.14	57.67	345.32
2100.00	1.86	352.20	2098.92	59.88	59.10	-15.16	0.17	61.01	345.61
2200.00	1.69	350.19	2198.88	62.96	62.16	-15.64	0.18	64.10	345.88
2300.00	1.52	353.45	2298.84	65.75	64.93	-16.04	0.19	66.88	346.13
2400.00	1.51	354.07	2398.80	68.39	67.56	-16.33	0.02	69.50	346.41
2500.00	1.38	357.07	2498.77	70.91	70.07	-16.52	0.15	71.99	346.73
2600.00	1.34	359.85	2598.74	73.28	72.44	-16.59	0.08	74.32	347.10
2700.00	1.26	353.71	2698.72	75.55	74.71	-16.71	0.16	76.55	347.39
2800.00	1.18	352.58	2798.69	77.67	76.82	-16.96	0.08	78.67	347.55
2900.00	1.04	349.15	2898.67	79.60	78.73	-17.27	0.15	80.60	347.63
3000.00	0.88	350.43	2998.66	81.26	80.38	-17.57	0.16	82.28	347.67
3100.00	0.73	346.42	3098.65	82.65	81.76	-17.84	0.16	83.68	347.69
3200.00	0.75	343.26	3198.64	83.91	83.00	-18.18	0.05	84.97	347.64
3300.00	0.78	347.89	3298.63	85.22	84.29	-18.51	0.07	86.30	347.61
3400.00	0.62	344.07	3398.63	86.42	85.48	-18.80	0.17	87.52	347.59
3500.00	0.58	344.65	3498.62	87.45	86.49	-19.09	0.04	88.57	347.55
3600.00	0.67	341.38	3598.61	88.51	87.53	-19.41	0.10	89.66	347.50
3700.00	0.61	348.61	3698.61	89.60	88.61	-19.70	0.10	90.77	347.47
3800.00	0.53	348.86	3798.60	90.58	89.58	-19.89	0.08	91.76	347.48
3900.00	0.68	8.72	3898.60	91.62	90.62	-19.89	0.26	92.78	347.62
4000.00	0.64	12.98	3998.59	92.74	91.75	-19.68	0.06	93.84	347.90
4100.00	0.72	18.48	4098.58	93.86	92.89	-19.35	0.10	94.89	348.23
4200.00	0.82	32.01	4198.57	95.02	94.10	-18.78	0.21	95.95	348.72
4300.00	0.97	44.91	4298.56	96.17	95.30	-17.80	0.25	96.95	349.42
4400.00	1.05	51.06	4398.55	97.27	96.48	-16.49	0.13	97.88	350.30
4500.00	1.25	52.27	4498.53	98.42	97.72	-14.91	0.20	98.85	351.32
4600.00	1.32	57.44	4598.50	99.60	99.01	-13.08	0.14	99.87	352.47
4700.00	1.41	58.23	4698.47	100.75	100.28	-11.06	0.09	100.88	353.70
4800.00	1.33	57.24	4798.44	101.90	101.55	-9.04	0.08	101.95	354.91

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Wellpath:	VH- Job #32K0705559	**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	1.43	55.88	4898.42	103.11	102.88	-7.03	0.11	103.12	356.09
4955.00	1.18	55.62	4953.40	103.76	103.58	-6.00	0.45	103.76	356.69

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Field: Rhine
Site: Eddy County, NM
Well: Rhine 13 Fed #1H
Wellpath: VH- Job #32K0705559
Survey: 07/29/05