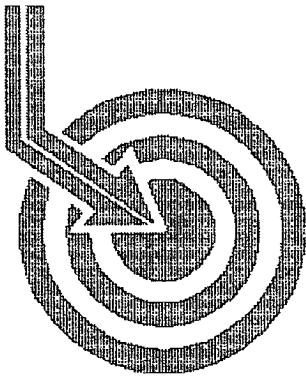
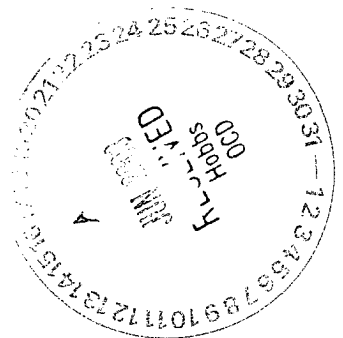




Scientific Drilling

CHEVRONTEXACO

Field: Vacuum Glorietta West
Site: Lea County, NM
Well: VGWU #6
Wellpath: VH - Job #32K0203062
Survey: 02/11/03



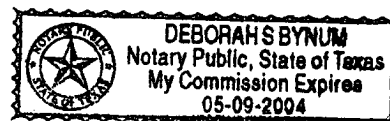
This survey is correct to the best of my knowledge
and is supported by actual field data.

Debrah Sue Bynum Company Representative

Notorized this date 20th of March, 2003.

Debrah Sue Bynum

Notary Signature
County of Midland
State of Texas



Scientific Drilling International

Survey Report

Company: CHEVRONTXACO	Date: 3/19/2003	Time: 16:15:20	Page: 1
Field: Vacuum Goriotta West	Co-ordinate(NE) Reference:	Site: Lea County, NM, Grid North	
Site: Lea County, NM	Vertical (TVD) Reference:	SITE: 0.0 above Mean Sea Level	
Well: VGWU #6	Section (VS) Reference:	Well (0.0E, 0.0N, 0.0Azi)	
Wellpath: VH - Job #32K0203062	Survey Calculation Method:	Minimum Curvature	

Survey: 02/11/03
KSRG 0'-6236'

Start Date: 3/19/2003

Company: Scientific Drilling Internatio
Tool: Keeper

Engineer: Angel Guebara

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	ClsD ft	ClsA deg	DLS deg/100ft
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0.00
100.0	0.68	340.02	100.0	0.6	0.6	-0.2	0.6	340.02	0.68
200.0	0.72	340.09	200.0	1.7	1.7	-0.6	1.8	340.04	0.04
300.0	0.66	338.43	300.0	2.8	2.8	-1.0	3.0	339.75	0.06
400.0	0.42	330.38	400.0	3.7	3.7	-1.4	4.0	338.69	0.25
500.0	0.27	333.33	500.0	4.2	4.2	-1.7	4.6	337.75	0.15
600.0	0.23	344.26	600.0	4.6	4.6	-1.9	5.0	337.80	0.06
700.0	0.19	340.16	700.0	5.0	5.0	-2.0	5.4	338.11	0.04
800.0	0.12	289.90	800.0	5.2	5.2	-2.2	5.6	337.38	0.15
900.0	0.10	347.84	900.0	5.3	5.3	-2.3	5.7	336.76	0.11
1000.0	0.14	59.13	1000.0	5.4	5.4	-2.2	5.9	338.11	0.14
1100.0	0.33	19.55	1100.0	5.8	5.8	-2.0	6.1	341.03	0.24
1200.0	0.20	356.09	1200.0	6.2	6.2	-1.9	6.5	343.01	0.16
1300.0	0.14	19.45	1300.0	6.5	6.5	-1.9	6.8	343.97	0.09
1400.0	0.32	344.62	1400.0	6.9	6.9	-1.9	7.1	344.56	0.22
1500.0	0.40	312.68	1500.0	7.4	7.4	-2.2	7.7	343.20	0.21
1600.0	0.37	288.88	1600.0	7.7	7.7	-2.8	8.2	340.14	0.16
1700.0	0.16	213.88	1700.0	7.7	7.7	-3.2	8.3	337.64	0.36
1800.0	0.10	223.23	1800.0	7.5	7.5	-3.3	8.2	336.28	0.06
1900.0	0.02	129.21	1900.0	7.5	7.5	-3.4	8.2	335.77	0.10
2000.0	0.12	76.81	2000.0	7.5	7.5	-3.2	8.2	336.54	0.11
2100.0	0.04	130.42	2100.0	7.5	7.5	-3.1	8.1	337.38	0.10
2200.0	0.09	327.99	2200.0	7.5	7.5	-3.1	8.1	337.41	0.13
2300.0	0.11	286.93	2300.0	7.6	7.6	-3.3	8.3	336.81	0.07
2400.0	0.52	348.57	2400.0	8.1	8.1	-3.4	8.8	336.93	0.48
2500.0	0.15	352.30	2500.0	8.7	8.7	-3.6	9.4	337.71	0.36
2600.0	0.58	7.89	2600.0	9.3	9.3	-3.5	9.9	339.37	0.43
2700.0	0.80	20.16	2700.0	10.4	10.4	-3.2	10.9	343.01	0.26
2800.0	0.31	41.29	2799.9	11.3	11.3	-2.8	11.6	346.22	0.52
2900.0	0.33	45.56	2899.9	11.7	11.7	-2.4	12.0	348.48	0.03
3000.0	0.50	33.12	2999.9	12.3	12.3	-1.9	12.4	351.00	0.19
3100.0	0.48	16.24	3099.9	13.0	13.0	-1.6	13.1	353.05	0.14
3200.0	0.14	233.30	3199.9	13.4	13.4	-1.6	13.5	353.31	0.60
3300.0	0.45	6.17	3299.9	13.7	13.7	-1.6	13.8	353.25	0.56
3400.0	0.46	359.24	3399.9	14.5	14.5	-1.6	14.6	353.76	0.06
3500.0	0.23	330.51	3499.9	15.1	15.1	-1.7	15.2	353.61	0.28
3600.0	0.28	329.96	3599.9	15.5	15.5	-1.9	15.6	352.95	0.05
3700.0	0.05	258.26	3699.9	15.7	15.7	-2.1	15.8	352.45	0.27
3800.0	0.08	308.36	3799.9	15.7	15.7	-2.2	15.8	352.12	0.06
3900.0	0.20	225.11	3899.9	15.6	15.6	-2.4	15.8	351.44	0.21
4000.0	0.25	275.08	3999.9	15.5	15.5	-2.7	15.7	350.16	0.19
4100.0	0.46	269.54	4099.9	15.5	15.5	-3.3	15.9	347.97	0.21
4200.0	0.42	269.66	4199.9	15.5	15.5	-4.1	16.0	345.29	0.04
4300.0	0.25	211.19	4299.9	15.3	15.3	-4.6	16.0	343.46	0.36
4400.0	0.29	196.74	4399.9	14.9	14.9	-4.7	15.6	342.36	0.08
4500.0	1.02	190.84	4499.9	13.8	13.8	-5.0	14.7	340.14	0.73
4600.0	1.35	151.32	4599.9	11.9	11.9	-4.6	12.7	338.91	0.86
4700.0	3.04	95.13	4699.8	10.6	10.6	-1.4	10.7	352.61	2.55

Scientific Drilling International

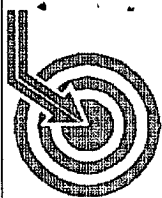
Survey Report

Company: CHEVRONTEXACO
Field: Vacuum Glorietta West
Site: Lea County, NM
Well: VGWU #6
Wellpath: VH - Job #32K0203062

Date: 3/19/2003 **Time:** 16:52:27 **Page:** 2
Co-ordinate(NE) Reference: Site: Lea County, NM, Grid North
Vertical (TVD) Reference: SITE 0.0 above Mean Sea Level
Section (VS) Reference: Well (0.0E,0.0N,112.2Azi)
Survey Calculation Method: Minimum Curvature

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	ClsD ft	ClsA deg	DLS deg/100ft
4800.0	2.70	99.80	4799.7	-0.5	10.0	3.6	10.6	19.77	0.41
4900.0	2.41	106.98	4899.6	3.9	9.0	7.9	12.0	41.46	0.43
5000.0	2.47	123.49	4999.5	8.1	7.2	11.7	13.7	58.59	0.70
5100.0	2.15	119.87	5099.4	12.1	5.0	15.2	16.0	71.61	0.35
5200.0	2.24	116.34	5199.4	15.9	3.2	18.5	18.8	80.10	0.16
5300.0	2.63	124.69	5299.3	20.1	1.1	22.2	22.2	87.26	0.53
5400.0	2.07	126.78	5399.2	24.1	-1.3	25.5	25.5	92.97	0.57
5500.0	1.71	135.41	5499.1	27.2	-3.5	28.0	28.2	97.06	0.45
5600.0	1.92	125.50	5599.1	30.2	-5.5	30.4	30.9	100.26	0.37
5700.0	2.15	124.04	5699.0	33.7	-7.5	33.3	34.2	102.72	0.24
5800.0	2.26	122.31	5798.9	37.5	-9.6	36.5	37.8	104.76	0.13
5900.0	2.11	126.12	5898.9	41.2	-11.8	39.7	41.4	106.51	0.21
6000.0	2.04	131.62	5998.8	44.7	-14.0	42.5	44.8	108.27	0.21
6100.0	2.46	128.43	6098.7	48.4	-16.6	45.5	48.4	109.98	0.44
6200.0	1.88	136.97	6198.7	52.0	-19.1	48.3	52.0	111.55	0.67
6236.0	1.79	151.19	6234.6	52.9	-20.0	49.0	52.9	112.21	1.28

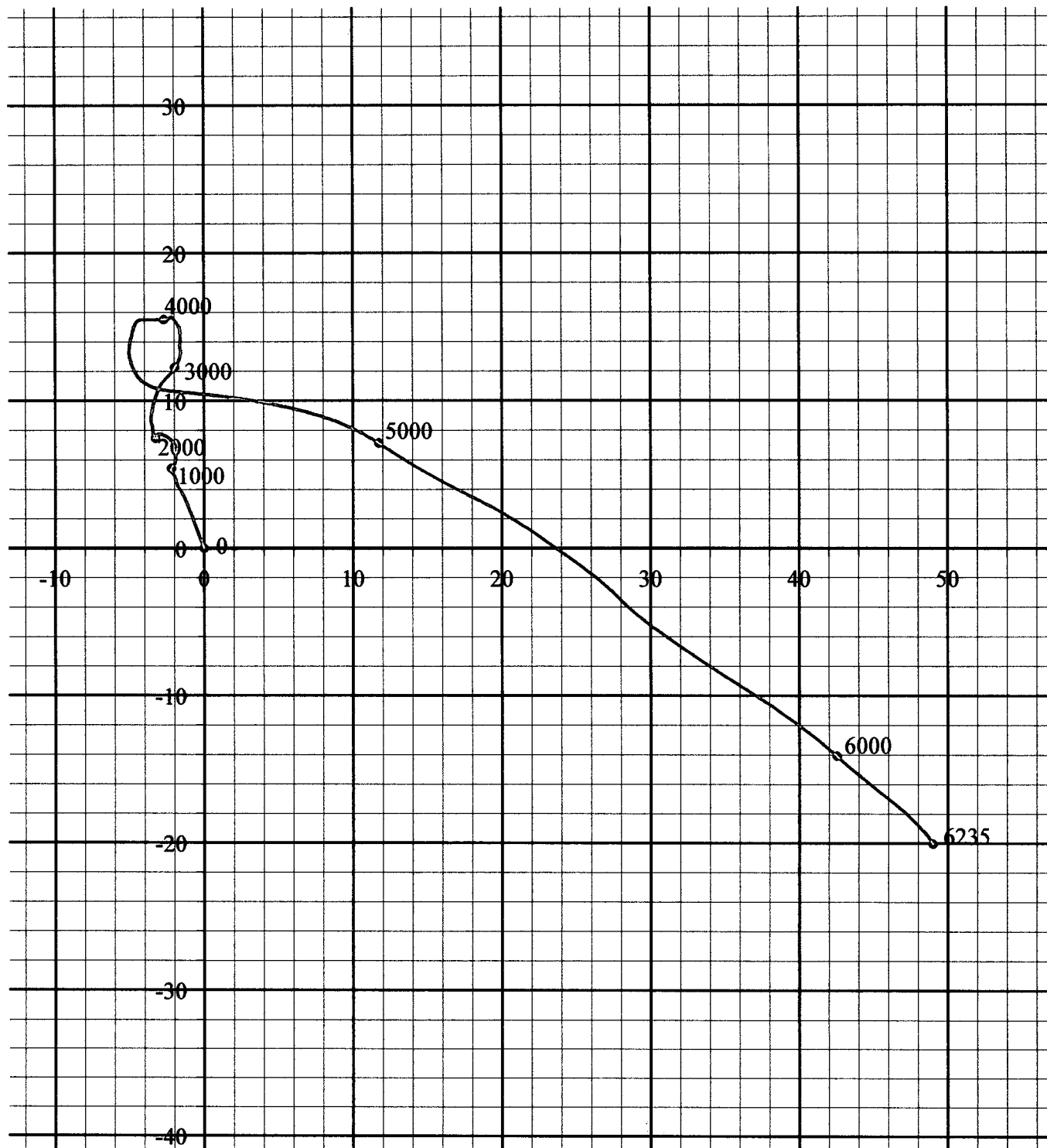


**Scientific
Drilling**

Field: Vacuum Glorietta West
Site: Lea County, NM
Well: VGWU #6
Wellpath: VH - Job #32K0203062
Survey: 02/11/03

G/T/M All Angles Relative
To Grid North
Grid North: 0.00
True North: 0.00
Magnetic North: 0.00

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



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