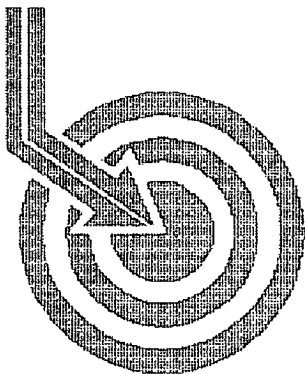


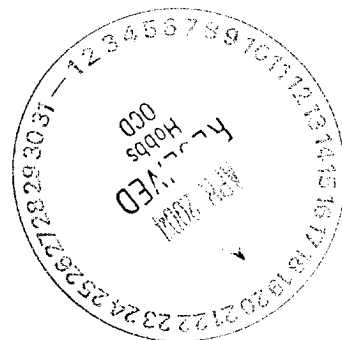


Scientific Drilling

SUR: J-29-21s-37e, 1335/S & 1335/E
BHL: C-32-21s-37e, 234/N & 3770/E
API # 30-025-25515

CHEVRONTEXACO

Field: Drinkard
Site: Lea County, NM
Well: Central Drinkard #418H
Wellpath: DH - Job #32D0204109
Survey: 02/17/04-02/26/04



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

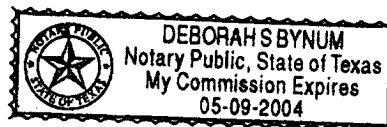
[Signature]

.....Company Representative

Notorized this date 15th of March, 2004.

Deborah S. Bynum

Notary Signature
County of Midland
State of Texas





Scientific
Drilling

Scientific Drilling Survey Report

Company: CHEVRONTXACO	Date: 3/12/2004	Time: 14:29:34	Page: 1
Field: Drinkard	Co-ordinate(NE) Reference: Site: Lea County, NM, Grid North		
Site: Lea County, NM	Vertical (TVD) Reference: SITE 0.0		
Well: Central Drinkard #418H	Section (VS) Reference: Well (0.00N,0.00E,237.28Azi)		
Wellpath: VH - Job #32K0204111	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Survey: 02/18/04	Start Date: 2/18/2004
KSRG 0'-6454'	
Company: Scientific Drilling	Engineer: Robert Gonzales
Tool: Keeper, Keeper 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
0.0	0.00	359.38	0.0	0.0	0.0	0.0	0.00	0.0	0.00
100.0	0.39	303.87	100.0	0.1	0.2	-0.3	0.39	0.3	303.87
200.0	0.42	294.95	200.0	0.5	0.5	-0.9	0.07	1.0	300.75
300.0	0.62	312.96	300.0	0.8	1.1	-1.6	0.26	1.9	303.04
400.0	0.60	313.79	400.0	1.1	1.8	-2.4	0.02	3.0	306.69
500.0	0.54	316.70	500.0	1.3	2.5	-3.1	0.07	4.0	308.81
600.0	0.61	324.42	600.0	1.4	3.3	-3.7	0.10	5.0	311.21
700.0	0.52	310.22	700.0	1.5	4.0	-4.4	0.17	5.9	312.31
800.0	0.45	307.99	800.0	1.8	4.5	-5.0	0.07	6.8	311.92
900.0	0.44	312.39	900.0	2.0	5.0	-5.6	0.04	7.6	311.74
1000.0	0.53	314.65	1000.0	2.2	5.6	-6.3	0.09	8.4	311.93
1100.0	0.65	320.35	1100.0	2.4	6.4	-6.9	0.13	9.4	312.56
1200.0	0.73	321.64	1199.9	2.5	7.3	-7.7	0.08	10.6	313.52
1300.0	1.16	326.51	1299.9	2.6	8.7	-8.7	0.44	12.2	315.01
1400.0	1.21	328.09	1399.9	2.6	10.4	-9.8	0.06	14.3	316.78
1500.0	1.21	328.98	1499.9	2.6	12.2	-10.9	0.02	16.3	318.29
1600.0	1.12	340.67	1599.9	2.3	14.0	-11.7	0.25	18.3	320.07
1700.0	0.99	348.88	1699.9	1.8	15.8	-12.2	0.20	20.0	322.25
1800.0	0.91	355.83	1799.8	1.1	17.4	-12.5	0.14	21.4	324.46
1900.0	0.93	9.88	1899.8	0.1	19.0	-12.4	0.23	22.7	326.97
2000.0	0.87	34.12	1999.8	-1.1	20.5	-11.8	0.38	23.6	330.00
2100.0	0.99	50.55	2099.8	-2.7	21.6	-10.7	0.29	24.1	333.65
2200.0	1.12	48.59	2199.8	-4.5	22.8	-9.3	0.13	24.7	337.80
2300.0	1.34	42.66	2299.8	-6.6	24.3	-7.8	0.25	25.5	342.24
2400.0	1.34	45.59	2399.7	-8.9	26.0	-6.2	0.07	26.7	346.67
2500.0	1.33	38.38	2499.7	-11.1	27.7	-4.6	0.17	28.1	350.57
2600.0	1.01	26.26	2599.7	-13.0	29.4	-3.5	0.40	29.6	353.22
2700.0	1.06	23.51	2699.7	-14.5	31.1	-2.7	0.07	31.2	354.96
2800.0	0.83	25.79	2799.7	-15.9	32.6	-2.1	0.23	32.6	356.39
2900.0	0.67	27.07	2899.6	-17.0	33.8	-1.5	0.16	33.8	357.50
3000.0	0.54	51.89	2999.6	-18.0	34.6	-0.8	0.29	34.6	358.62
3100.0	0.54	49.22	3099.6	-18.9	35.2	-0.1	0.03	35.2	359.83
3200.0	0.48	63.58	3199.6	-19.8	35.7	0.6	0.14	35.7	1.01
3300.0	0.52	57.05	3299.6	-20.7	36.1	1.4	0.07	36.1	2.19
3400.0	0.55	60.10	3399.6	-21.6	36.6	2.2	0.04	36.6	3.41
3500.0	0.49	57.42	3499.6	-22.5	37.0	3.0	0.06	37.2	4.56
3600.0	0.46	52.26	3599.6	-23.3	37.5	3.6	0.05	37.7	5.53
3700.0	0.53	49.27	3699.6	-24.2	38.1	4.3	0.07	38.3	6.45
3800.0	0.50	48.56	3799.6	-25.1	38.7	5.0	0.03	39.0	7.34
3900.0	0.49	44.20	3899.6	-25.9	39.3	5.6	0.04	39.7	8.12
4000.0	0.58	46.01	3999.6	-26.8	39.9	6.3	0.09	40.4	8.92
4100.0	0.51	44.45	4099.6	-27.8	40.6	6.9	0.07	41.2	9.71
4200.0	0.54	51.88	4199.6	-28.7	41.2	7.6	0.07	41.9	10.49
4300.0	0.40	30.07	4299.6	-29.5	41.8	8.2	0.22	42.6	11.06
4400.0	0.37	40.33	4399.6	-30.1	42.3	8.6	0.08	43.2	11.42
4500.0	0.42	49.73	4499.6	-30.8	42.8	9.0	0.08	43.8	11.93
4600.0	0.42	65.90	4599.6	-31.5	43.2	9.7	0.12	44.3	12.60
4700.0	0.47	70.51	4699.6	-32.2	43.5	10.4	0.06	44.7	13.42
4800.0	0.49	75.89	4799.6	-33.0	43.7	11.2	0.05	45.1	14.34



Scientific
Drilling

Scientific Drilling Survey Report

Company: CHEVRONTXACO
Field: Drinkard
Site: Lea County, NM
Well: Central Drinkard #418H
Wellpath: VH - Job #32K0204111

Date: 3/12/2004 Time: 14:29:34 Page: 2
Co-ordinate(N/E) Reference: Site: Lea County, NM, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,237.28Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

MD ft	Incl deg	Azlm deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
4900.0	0.53	73.94	4899.6	-33.9	44.0	12.0	0.04	45.6	15.31
5000.0	0.50	79.30	4999.6	-34.7	44.2	12.9	0.06	46.0	16.29
5100.0	0.54	88.42	5099.6	-35.5	44.3	13.8	0.09	46.4	17.33
5200.0	0.70	133.81	5199.6	-36.1	43.9	14.7	0.50	46.3	18.55
5300.0	0.80	142.04	5299.6	-36.3	42.9	15.6	0.15	45.6	19.97
5400.0	0.72	142.62	5399.5	-36.4	41.8	16.4	0.08	44.9	21.40
5500.0	0.62	131.56	5499.5	-36.6	41.0	17.2	0.16	44.4	22.75
5600.0	0.70	128.05	5599.5	-37.0	40.2	18.1	0.09	44.1	24.18
5700.0	0.54	107.50	5699.5	-37.5	39.7	19.0	0.27	44.0	25.56
5800.0	0.70	111.89	5799.5	-38.1	39.4	20.0	0.17	44.2	26.96
5900.0	1.02	106.48	5899.5	-39.0	38.9	21.4	0.33	44.4	28.87
6000.0	1.15	107.93	5999.5	-40.3	38.3	23.2	0.13	44.8	31.24
6100.0	1.22	114.39	6099.5	-41.5	37.6	25.2	0.15	45.2	33.81
6200.0	1.36	128.03	6199.4	-42.4	36.4	27.1	0.34	45.4	36.63
6300.0	1.60	109.58	6299.4	-43.7	35.2	29.3	0.53	45.8	39.79
6400.0	1.37	105.75	6399.4	-45.3	34.4	31.8	0.25	46.8	42.73
6454.5	1.62	103.37	6453.9	-46.3	34.1	33.2	0.47	47.5	44.24



Scientific
Drilling

Scientific Drilling Survey Report

Company: CHEVRONTXACO
Field: Drinkard
Site: Lea County, NM
Well: Central Drinkard #418H
Wellpath: DH - Job #32D0204109

Date: 3/12/2004 Time: 15:36:39 Page: 1
Co-ordinate(N/E) Reference: Site: Lea County, NM, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,237.28Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: 02/17/04-02/26/04
MWD 6451'-9477'
Company: Scientific Drilling
Tool: MWD,MWD

Start Date: 2/17/2004
Engineer: Lamb/Melendez/Hendrix
Tied-to: From: Definitive Path

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
6451.0	1.60	103.50	6450.4	-46.2	34.1	33.1	0.00	47.5	44.13
6498.0	18.38	235.44	6496.6	-39.2	29.7	27.5	41.46	40.5	42.87
6513.0	25.24	239.92	6510.5	-33.7	26.7	22.8	47.03	35.1	40.50
6530.0	32.89	241.68	6525.4	-25.4	22.7	15.6	45.28	27.6	34.50
6545.0	39.31	243.96	6537.5	-16.6	18.7	7.8	43.72	20.2	22.52
6561.0	46.78	244.14	6549.2	-5.8	13.9	-2.1	46.69	14.1	351.58
6576.0	53.99	241.33	6558.7	5.7	8.6	-12.3	50.18	15.0	304.98
6586.0	58.83	239.48	6564.3	14.0	4.5	-19.6	50.79	20.1	282.97
6622.0	75.18	236.14	6578.3	47.0	-13.1	-47.5	46.20	49.3	254.53
6653.0	81.87	237.99	6584.4	77.4	-29.6	-73.0	22.36	78.7	247.89
6685.0	84.94	238.60	6588.1	109.2	-46.3	-100.0	9.78	110.2	245.13
6716.0	90.75	238.25	6589.3	140.1	-62.6	-126.4	18.78	141.0	243.66
6747.0	93.03	234.21	6588.3	171.1	-79.8	-152.1	14.96	171.8	242.33
6778.0	91.98	235.00	6586.9	202.0	-97.7	-177.4	4.24	202.5	241.15
6810.0	93.30	234.65	6585.4	234.0	-116.1	-203.5	4.27	234.3	240.29
6842.0	94.35	235.88	6583.3	265.9	-134.3	-229.7	5.05	266.1	239.69
6873.0	93.47	235.61	6581.2	296.8	-151.7	-255.3	2.97	297.0	239.28
6905.0	92.68	235.70	6579.5	328.7	-169.8	-281.7	2.48	328.9	238.92
6937.0	92.51	235.00	6578.0	360.7	-187.9	-308.0	2.25	360.8	238.61
6968.0	91.98	234.47	6576.8	391.6	-205.8	-333.3	2.42	391.7	238.30
7003.0	91.98	234.21	6575.6	426.6	-226.2	-361.7	0.74	426.6	237.98
7031.0	93.21	237.37	6574.3	454.5	-241.9	-384.8	12.10	454.6	237.84
7063.0	92.95	237.19	6572.6	486.5	-259.2	-411.7	0.99	486.5	237.81
7095.0	92.86	236.93	6571.0	518.4	-276.6	-438.5	0.86	518.5	237.76
7126.0	93.30	236.84	6569.3	549.4	-293.5	-464.5	1.45	549.4	237.71
7157.0	93.12	236.67	6567.6	580.3	-310.5	-490.3	0.80	580.4	237.66
7188.0	93.03	235.96	6565.9	611.3	-327.6	-516.1	2.31	611.3	237.59
7219.0	93.30	233.59	6564.2	642.2	-345.5	-541.4	7.68	642.2	237.46
7251.0	94.09	232.18	6562.1	674.1	-364.7	-566.8	5.04	674.1	237.24
7282.0	93.65	232.80	6560.0	704.9	-383.6	-591.4	2.45	704.9	237.03
7313.0	90.48	235.96	6558.9	735.8	-401.6	-616.6	14.43	735.8	236.92
7344.0	91.19	235.26	6558.5	766.8	-419.1	-642.1	3.22	766.8	236.87
7376.0	91.54	236.49	6557.7	798.8	-437.1	-668.6	4.00	798.8	236.83
7407.0	92.51	236.23	6556.6	829.8	-454.2	-694.4	3.24	829.8	236.81
7438.0	92.42	238.16	6555.3	860.7	-471.0	-720.4	6.23	860.7	236.82
7469.0	92.59	240.18	6553.9	891.7	-486.9	-747.0	6.53	891.7	236.91
7500.0	93.03	241.06	6552.4	922.6	-502.1	-774.0	3.17	922.6	237.03
7532.0	92.33	241.94	6550.9	954.5	-517.3	-802.1	3.51	954.5	237.18
7563.0	91.89	239.57	6549.8	985.4	-532.5	-829.1	7.77	985.4	237.29
7594.0	92.42	237.46	6548.6	1016.3	-548.6	-855.5	7.01	1016.3	237.33
7626.0	93.12	237.81	6547.1	1048.3	-565.7	-882.5	2.45	1048.3	237.34
7658.0	93.30	237.55	6545.3	1080.3	-582.8	-909.5	0.99	1080.3	237.35
7689.0	92.86	236.58	6543.6	1111.2	-599.7	-935.5	3.43	1111.2	237.34
7721.0	92.68	235.96	6542.1	1143.2	-617.4	-962.1	2.02	1143.2	237.31
7753.0	92.15	235.70	6540.7	1175.1	-635.4	-988.6	1.84	1175.1	237.27
7784.0	91.45	236.32	6539.7	1206.1	-652.7	-1014.2	3.02	1206.1	237.24
7816.0	88.11	234.47	6539.9	1238.1	-670.9	-1040.6	11.93	1238.1	237.19
7847.0	89.34	231.04	6540.5	1269.0	-689.6	-1065.2	11.75	1269.0	237.08
7879.0	91.36	235.88	6540.4	1300.9	-708.7	-1090.9	16.39	1300.9	236.99



Scientific
Drilling

Scientific Drilling Survey Report

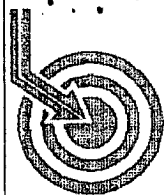
Company: CHEVRONTExACO
Field: Drinkard
Site: Lea County, NM
Well: Central Drinkard #418H
Wellpath: DH - Job #32D0204109

Date: 3/12/2004 Time: 15:36:39 Page: 2
Co-ordinate(NE) Reference: Site: Lea County, NM, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,237.28Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

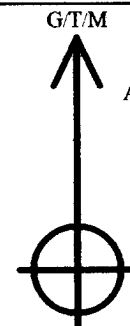
MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
7911.0	92.42	237.99	6539.3	1332.9	-726.1	-1117.8	7.38	1332.9	236.99
7942.0	90.31	242.12	6538.6	1363.8	-741.6	-1144.6	14.96	1363.8	237.06
7974.0	89.87	242.12	6538.5	1395.7	-756.5	-1172.9	1.37	1395.7	237.18
8005.0	87.85	241.68	6539.1	1426.6	-771.1	-1200.2	6.67	1426.6	237.28
8037.0	87.67	241.50	6540.4	1458.5	-786.3	-1228.3	0.80	1458.5	237.37
8069.0	90.66	239.92	6540.8	1490.4	-802.0	-1256.2	10.57	1490.4	237.45
8100.0	92.15	240.01	6540.1	1521.4	-817.5	-1283.1	4.82	1521.4	237.50
8132.0	92.15	239.57	6538.9	1553.3	-833.6	-1310.7	1.37	1553.3	237.54
8163.0	90.48	236.84	6538.2	1584.3	-849.9	-1337.0	10.32	1584.3	237.56
8195.0	89.34	236.49	6538.2	1616.3	-867.5	-1363.8	3.73	1616.3	237.54
8226.0	85.91	234.56	6539.5	1647.3	-885.0	-1389.3	12.69	1647.3	237.50
8258.0	85.47	235.17	6541.9	1679.1	-903.4	-1415.4	2.35	1679.1	237.45
8290.0	86.26	235.61	6544.2	1711.0	-921.5	-1441.7	2.82	1711.0	237.41
8321.0	86.26	235.88	6546.2	1742.0	-938.9	-1467.2	0.87	1742.0	237.38
8353.0	86.09	235.17	6548.4	1773.9	-957.0	-1493.6	2.28	1773.9	237.35
8385.0	86.53	235.35	6550.4	1805.8	-975.2	-1519.8	1.49	1805.8	237.31
8416.0	87.67	237.02	6552.0	1836.7	-992.4	-1545.5	6.52	1836.7	237.29
8448.0	88.37	236.93	6553.1	1868.7	-1009.9	-1572.3	2.21	1868.7	237.29
8479.0	88.29	237.37	6554.0	1899.7	-1026.7	-1598.4	1.44	1899.7	237.29
8511.0	87.85	237.11	6555.1	1931.7	-1044.0	-1625.3	1.60	1931.7	237.29
8543.0	88.64	237.55	6556.1	1963.7	-1061.3	-1652.2	2.83	1963.7	237.29
8574.0	89.16	237.55	6556.7	1994.7	-1077.9	-1678.3	1.68	1994.7	237.29
8606.0	89.60	237.02	6557.0	2026.7	-1095.2	-1705.3	2.15	2026.7	237.29
8637.0	87.14	236.14	6557.9	2057.6	-1112.2	-1731.1	8.43	2057.6	237.28
8669.0	86.79	235.35	6559.6	2089.6	-1130.2	-1757.5	2.70	2089.6	237.26
8701.0	88.11	237.02	6561.0	2121.5	-1148.0	-1784.1	6.65	2121.5	237.24
8732.0	88.37	237.02	6562.0	2152.5	-1164.9	-1810.1	0.84	2152.5	237.24
8764.0	88.61	236.05	6562.8	2184.5	-1182.5	-1836.8	3.12	2184.5	237.23
8795.0	88.90	235.00	6563.5	2215.5	-1200.1	-1862.3	3.51	2215.5	237.20
8827.0	89.08	234.56	6564.0	2247.5	-1218.5	-1888.5	1.49	2247.5	237.17
8858.0	86.61	236.76	6565.2	2278.4	-1236.0	-1914.0	10.67	2278.4	237.15
8890.0	87.93	236.58	6566.7	2310.4	-1253.6	-1940.7	4.16	2310.4	237.14
8921.0	87.22	237.99	6568.0	2341.4	-1270.3	-1966.8	5.09	2341.4	237.14
8953.0	87.32	237.63	6569.6	2373.3	-1287.3	-1993.9	1.17	2373.3	237.15
8985.0	88.02	235.79	6570.9	2405.3	-1304.9	-2020.6	6.15	2405.3	237.15
9016.0	89.16	234.12	6571.6	2436.3	-1322.7	-2046.0	6.52	2436.3	237.12
9048.0	88.81	234.82	6572.2	2468.2	-1341.3	-2072.0	2.45	2468.2	237.08
9079.0	89.25	233.94	6572.7	2499.2	-1359.3	-2097.2	3.17	2499.2	237.05
9111.0	87.14	234.82	6573.7	2531.1	-1377.9	-2123.2	7.14	2531.1	237.02
9143.0	86.35	237.11	6575.6	2563.0	-1395.8	-2149.7	7.56	2563.1	237.00
9174.0	86.17	235.35	6577.6	2594.0	-1413.0	-2175.4	5.70	2594.0	236.99
9206.0	86.00	237.19	6579.8	2625.9	-1430.7	-2201.9	5.76	2625.9	236.99
9238.0	87.41	238.69	6581.6	2657.8	-1447.7	-2229.0	6.43	2657.9	237.00
9269.0	87.93	238.78	6582.9	2688.8	-1463.8	-2255.5	1.70	2688.8	237.02
9301.0	88.99	239.13	6583.7	2720.8	-1480.3	-2282.9	3.49	2720.8	237.04
9332.0	89.78	238.07	6584.1	2751.8	-1496.4	-2309.3	4.26	2751.8	237.06
9364.0	90.04	238.42	6584.1	2783.8	-1513.3	-2336.5	1.36	2783.8	237.07
9396.0	89.43	240.89	6584.2	2815.7	-1529.4	-2364.2	7.95	2815.7	237.10
9427.0	89.34	241.15	6584.6	2846.7	-1544.4	-2391.3	0.89	2846.7	237.14
9442.0	88.64	240.89	6584.8	2861.6	-1551.7	-2404.4	4.98	2861.6	237.16
9477.0	88.64	240.89	6585.7	2896.5	-1568.7	-2435.0	0.00	2896.5	237.21

234 North 1100 West



**Scientific
Drilling**

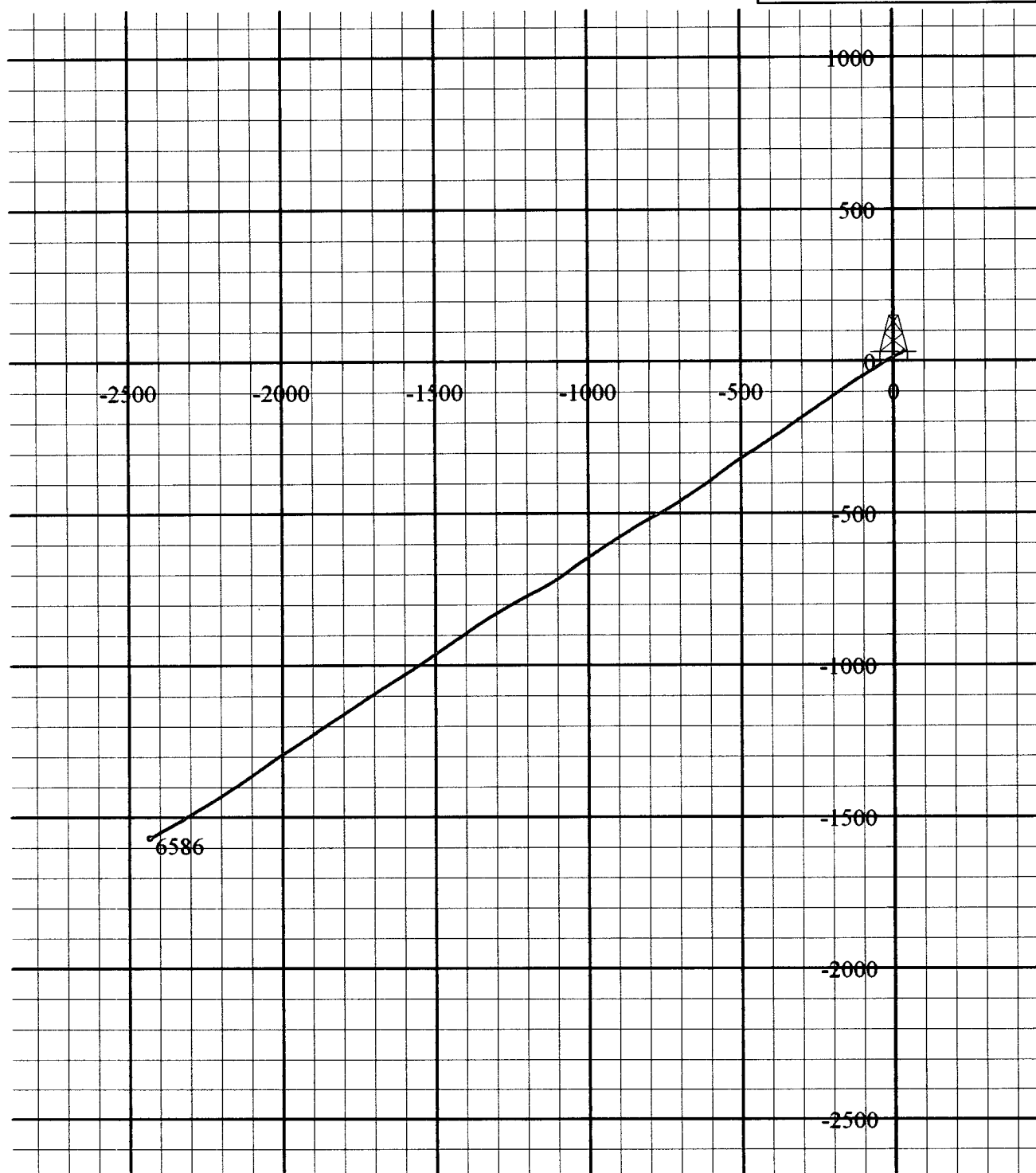
Field: Drinkard
Site: Lea County, NM
Well: Central Drinkard #418H
Wellpath: DH - Job #32D0204109
Survey: 02/17/04-02/26/04



Azimuths to Grid North
True North: 0.00°
Magnetic North: 0.00°

Magnetic Field
Strength: 0nT
Dip Angle: 0.00°
Date: 3/12/2004
Model: Wmm_95

South(-)/North(+) [500ft/in]



West(-)/East(+) [500ft/in]