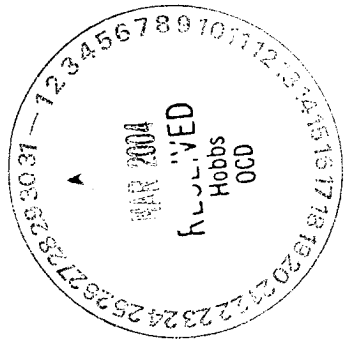
Scientific Drilling

SUR: J-32-21s-37e, 2086/S & 2086/E
BHL: E-33-21s-37e, 2148/S & 151/W
API # 30-025-06944

CHEVRONTEXACO

Field: Drinkard
Site: Lea County, NM
Well: Central Drinkard #150H
Wellpath: DH - Job #32D0204075
Survey: 02/04/04-02/13/04

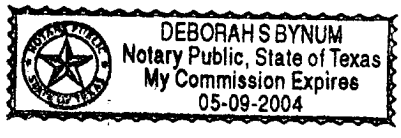


This survey is correct to the best of my knowledge and is supported by actual field data.

.....Company Representative

Notorized this date 19th of February, 2004.

Notary Signature
County of Midland
State of Texas



Scientific Drilling
Survey Report

Company:	CHEVRONTEXACO	**Date:** 2/19/2004	**Time:** 12:15:19	**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 #150H	**Section (VS) Reference:**	Well (0.00N,0.00E,64.64Azi)		
Wellpath:	VH - Job #32K0204076	**Survey Calculation Method:**	Minimum Curvature	**Db:**	Sybase

Survey:	02/04/04 KSRG 0'-6445'	**Start Date:**	2/4/2004
Company:	Scientific Drilling	**Engineer:**	Angel Guebara
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	359.40	0.0	0.0	0.0	0.0	0.00	0.0	0.00
100.0	0.31	317.98	100.0	-0.1	0.2	-0.2	0.31	0.3	317.98
200.0	0.37	342.49	200.0	-0.1	0.7	-0.5	0.16	0.8	327.08
300.0	0.22	289.44	300.0	-0.2	1.1	-0.7	0.29	1.3	325.71
400.0	0.28	337.35	400.0	-0.3	1.4	-1.0	0.21	1.7	323.56
500.0	0.34	274.96	500.0	-0.6	1.6	-1.4	0.32	2.1	319.20
600.0	0.19	214.99	600.0	-1.0	1.5	-1.8	0.29	2.3	310.20
700.0	0.24	238.92	700.0	-1.3	1.3	-2.1	0.10	2.4	301.56
800.0	0.14	321.45	800.0	-1.6	1.3	-2.3	0.26	2.6	298.42
900.0	0.10	178.46	900.0	-1.6	1.3	-2.4	0.23	2.7	297.86
1000.0	0.23	218.38	1000.0	-1.8	1.0	-2.5	0.17	2.7	292.11
1100.0	0.22	279.48	1100.0	-2.2	0.9	-2.8	0.23	3.0	287.58
1200.0	0.32	344.96	1200.0	-2.3	1.2	-3.1	0.30	3.3	291.13
1300.0	0.48	0.27	1300.0	-2.0	1.9	-3.2	0.19	3.7	300.76
1400.0	0.51	8.74	1400.0	-1.6	2.7	-3.1	0.08	4.1	311.57
1500.0	0.31	5.49	1500.0	-1.2	3.4	-3.0	0.20	4.6	319.05
1600.0	0.51	348.13	1600.0	-1.0	4.2	-3.1	0.23	5.2	323.66
1700.0	0.56	16.02	1700.0	-0.6	5.1	-3.0	0.26	5.9	329.22
1800.0	0.72	47.96	1800.0	0.4	5.9	-2.4	0.38	6.4	337.92
1900.0	0.83	58.43	1900.0	1.7	6.7	-1.3	0.18	6.9	348.86
2000.0	0.92	79.25	1999.9	3.2	7.3	0.1	0.33	7.3	0.60
2100.0	1.18	82.59	2099.9	4.9	7.6	1.9	0.27	7.8	14.00
2200.0	1.34	79.35	2199.9	7.0	7.9	4.1	0.18	8.9	27.15
2300.0	1.44	66.28	2299.9	9.4	8.6	6.3	0.33	10.7	36.37
2400.0	1.57	64.74	2399.8	12.1	9.7	8.7	0.14	13.1	41.98
2500.0	1.39	61.89	2499.8	14.6	10.9	11.0	0.19	15.5	45.47
2600.0	1.32	55.16	2599.8	17.0	12.1	13.1	0.17	17.8	47.20
2700.0	1.24	54.47	2699.8	19.2	13.4	14.9	0.08	20.0	48.05
2800.0	1.20	54.68	2799.7	21.3	14.6	16.6	0.04	22.1	48.67
2900.0	1.08	52.78	2899.7	23.2	15.8	18.2	0.12	24.1	49.10
3000.0	1.29	48.00	2999.7	25.2	17.1	19.8	0.23	26.2	49.18
3100.0	1.27	47.39	3099.7	27.4	18.6	21.5	0.02	28.4	49.06
3200.0	1.23	44.90	3199.6	29.4	20.1	23.0	0.07	30.6	48.86
3300.0	1.29	45.31	3299.6	31.5	21.7	24.6	0.06	32.8	48.61
3400.0	1.21	50.68	3399.6	33.6	23.1	26.2	0.14	35.0	48.56
3500.0	1.31	50.92	3499.6	35.7	24.5	27.9	0.10	37.2	48.70
3600.0	1.43	57.68	3599.5	38.1	25.9	29.9	0.20	39.5	49.04
3700.0	1.24	59.82	3699.5	40.4	27.1	31.9	0.19	41.8	49.58
3800.0	1.05	66.54	3799.5	42.4	28.0	33.6	0.23	43.8	50.18
3900.0	1.10	74.18	3899.5	44.3	28.7	35.4	0.15	45.6	50.99
4000.0	1.02	72.69	3999.5	46.1	29.2	37.2	0.08	47.3	51.85
4100.0	1.01	73.54	4099.4	47.8	29.7	38.9	0.02	48.9	52.60
4200.0	1.07	83.97	4199.4	49.6	30.1	40.6	0.20	50.5	53.51
4300.0	0.82	112.27	4299.4	51.0	29.9	42.2	0.52	51.7	54.71
4400.0	1.43	144.91	4399.4	51.7	28.6	43.6	0.86	52.1	56.75
4500.0	1.85	130.91	4499.4	52.5	26.5	45.6	0.58	52.7	59.80
4600.0	1.93	123.55	4599.3	54.0	24.5	48.2	0.25	54.1	63.03
4700.0	1.90	127.77	4699.2	55.7	22.6	50.9	0.14	55.7	66.08
4800.0	1.95	128.07	4799.2	57.2	20.5	53.5	0.05	57.3	69.04

Scientific Drilling
Survey Report

Company:	CHEVRONTEXACO	**Date:** 2/19/2004	**Time:** 12:15:19	**Page:**	2
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 #150H	**Section (VS) Reference:**	Well (0.00N,0.00E,64.64Azi)		
Wellpath:	VH - Job #32K0204076	**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
4900.0	1.60	134.02	4899.1	58.4	18.5	55.9	0.39	58.9	71.69
5000.0	1.82	131.93	4999.1	59.5	16.5	58.1	0.23	60.4	74.17
5100.0	1.88	143.44	5099.0	60.5	14.1	60.2	0.38	61.8	76.84
5200.0	1.58	147.57	5199.0	60.9	11.6	61.9	0.32	63.0	79.39
5300.0	1.41	141.15	5299.0	61.4	9.5	63.5	0.24	64.2	81.51
5400.0	1.51	147.36	5398.9	61.9	7.4	64.9	0.19	65.4	83.49
5500.0	1.41	156.30	5498.9	62.0	5.2	66.1	0.25	66.3	85.53
5600.0	1.23	156.18	5598.9	61.9	3.1	67.1	0.18	67.1	87.39
5700.0	1.32	155.44	5698.9	61.9	1.0	68.0	0.09	68.0	89.13
5800.0	1.47	154.79	5798.8	61.9	-1.2	69.0	0.15	69.0	90.98
5900.0	1.52	148.59	5898.8	62.0	-3.5	70.2	0.17	70.3	92.83
6000.0	1.67	151.46	5998.7	62.2	-5.9	71.6	0.17	71.9	94.69
6100.0	1.51	154.47	6098.7	62.3	-8.3	72.9	0.18	73.4	96.53
6200.0	1.28	168.44	6198.7	62.0	-10.6	73.7	0.41	74.5	98.21
6300.0	0.88	163.29	6298.7	61.7	-12.5	74.1	0.41	75.2	99.55
6400.0	1.07	167.59	6398.6	61.3	-14.1	74.6	0.20	75.9	100.72
6445.0	1.00	166.88	6443.6	61.1	-14.9	74.7	0.16	76.2	101.28

Scientific Drilling
Survey Report

Company:	CHEVRONTEXACO	**Date:** 2/19/2004	**Time:** 12:19:42	**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 #150H	**Section (VS) Reference:**	Well (0.00N,0.00E,64.64Azi)		
Wellpath:	DH - Job #32D0204075	**Survey Calculation Method:**	Minimum Curvature	**Db:**	Sybase

Survey:	02/04/04-02/13/04 MWD 6508'-8944'	**Start Date:**	2/4/2004
Company:	Scientific Drilling	**Engineer:**	Lamb/Melendez/Hendrix
Tool:	MWD,MWD	**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
6444.0	1.00	166.90	6442.6	61.2	-14.9	74.7	0.00	76.2	101.27
6508.0	27.52	63.52	6504.2	76.1	-8.7	88.4	43.39	88.8	95.64
6518.0	32.18	63.61	6512.9	81.1	-6.5	92.8	46.60	93.0	94.01
6528.0	36.49	62.64	6521.2	86.7	-4.0	97.8	43.44	97.9	92.32
6538.0	41.15	61.33	6528.9	93.0	-1.0	103.4	47.32	103.4	90.56
6548.0	46.08	60.80	6536.2	99.9	2.3	109.4	49.44	109.4	88.78
6558.0	50.65	59.57	6542.8	107.3	6.0	115.9	46.61	116.1	87.01
6568.0	55.13	58.43	6548.9	115.2	10.2	122.7	45.71	123.1	85.27
6583.0	61.03	57.37	6556.8	127.9	16.9	133.5	39.79	134.6	82.78
6615.0	72.37	56.49	6569.4	157.0	32.9	158.1	35.53	161.5	78.23
6646.0	76.24	57.46	6577.8	186.5	49.2	183.1	12.84	189.6	74.96
6677.0	80.28	57.02	6584.1	216.6	65.6	208.6	13.11	218.7	72.54
6709.0	86.79	57.37	6587.7	248.1	82.8	235.3	20.37	249.5	70.61
6741.0	91.80	57.55	6588.1	279.9	100.0	262.3	15.67	280.7	69.12
6773.0	92.24	57.99	6587.0	311.6	117.1	289.4	1.94	312.1	67.97
6805.0	92.59	58.51	6585.6	343.4	133.9	316.5	1.96	343.7	67.07
6837.0	92.33	58.69	6584.3	375.2	150.6	343.8	0.99	375.4	66.35
6869.0	92.68	58.60	6582.9	407.0	167.2	371.1	1.13	407.1	65.75
6901.0	93.30	58.86	6581.2	438.8	183.8	398.4	2.10	438.8	65.24
6932.0	93.74	58.43	6579.3	469.5	199.9	424.9	1.98	469.5	64.80
6964.0	93.74	63.43	6577.2	501.4	215.4	452.8	15.59	501.4	64.56
6997.0	94.26	63.35	6574.9	534.3	230.2	482.2	1.59	534.3	64.48
7029.0	94.97	62.82	6572.3	566.2	244.6	510.6	2.77	566.2	64.41
7060.0	93.91	63.35	6569.9	597.1	258.6	538.2	3.82	597.1	64.34
7092.0	94.44	61.94	6567.6	629.0	273.2	566.5	4.70	629.0	64.25
7123.0	91.54	63.26	6566.0	659.9	287.5	594.0	10.28	659.9	64.17
7155.0	89.87	64.14	6565.6	691.9	301.7	622.7	5.90	691.9	64.15
7187.0	89.60	66.42	6565.7	723.9	315.1	651.8	7.17	723.9	64.20
7219.0	94.70	66.16	6564.5	755.9	327.9	681.0	15.96	755.9	64.29
7250.0	94.97	65.90	6561.9	786.7	340.5	709.3	1.21	786.7	64.36
7282.0	94.70	66.16	6559.2	818.6	353.4	738.4	1.17	818.6	64.42
7315.0	94.09	66.51	6556.7	851.5	366.6	768.5	2.13	851.5	64.50
7347.0	93.74	66.25	6554.5	883.4	379.4	797.8	1.36	883.4	64.57
7378.0	95.23	64.67	6552.1	914.3	392.2	825.9	6.99	914.3	64.60
7410.0	95.23	64.75	6549.2	946.2	405.9	854.7	0.25	946.2	64.60
7443.0	95.08	64.31	6546.2	979.0	420.0	884.4	1.40	979.0	64.60
7474.0	94.70	64.23	6543.6	1009.9	433.4	912.2	1.25	1009.9	64.59
7507.0	94.26	64.23	6541.0	1042.8	447.7	941.8	1.33	1042.8	64.58
7538.0	94.00	64.23	6538.7	1073.8	461.1	969.7	0.84	1073.8	64.57
7570.0	95.94	65.72	6536.0	1105.6	474.6	998.6	7.63	1105.6	64.58
7602.0	95.50	65.81	6532.8	1137.5	487.7	1027.6	1.40	1137.5	64.61
7633.0	95.41	65.37	6529.8	1168.3	500.5	1055.7	1.44	1168.3	64.64
7665.0	94.09	65.63	6527.2	1200.2	513.7	1084.7	4.20	1200.2	64.66
7697.0	91.98	65.37	6525.5	1232.2	526.9	1113.8	6.64	1232.2	64.68
7729.0	92.24	64.84	6524.3	1264.1	540.4	1142.8	1.84	1264.1	64.69
7760.0	92.24	64.14	6523.1	1295.1	553.7	1170.8	2.26	1295.1	64.69
7793.0	94.00	63.79	6521.3	1328.1	568.2	1200.4	5.44	1328.1	64.67
7824.0	94.09	63.70	6519.1	1359.0	581.9	1228.1	0.41	1359.0	64.65
7855.0	94.00	62.91	6516.9	1389.9	595.8	1255.7	2.56	1389.9	64.62

Scientific Drilling
Survey Report

Company:	CHEVRONTEXACO	**Date:** 2/19/2004	**Time:** 12:19:42	**Page:**	2
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 #150H	**Section (VS) Reference:**	Well (0.00N,0.00E,64.64Azi)		
Wellpath:	DH - Job #32D0204075	**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
7888.0	90.13	63.96	6515.7	1422.9	610.5	1285.2	12.15	1422.9	64.59
7920.0	91.19	63.87	6515.4	1454.8	624.6	1314.0	3.32	1454.8	64.58
7952.0	92.51	63.70	6514.3	1486.8	638.7	1342.6	4.16	1486.8	64.56
7984.0	88.46	64.31	6514.1	1518.8	652.7	1371.4	12.80	1518.8	64.55
8016.0	82.92	65.02	6516.5	1550.7	666.4	1400.2	17.45	1550.7	64.55
8049.0	83.27	64.84	6520.4	1583.5	680.3	1429.9	1.19	1583.5	64.56
8081.0	86.53	63.96	6523.3	1615.3	694.0	1458.6	10.55	1615.3	64.55
8113.0	88.46	64.05	6524.7	1647.3	708.0	1487.4	6.04	1647.3	64.54
8145.0	86.53	65.10	6526.1	1679.3	721.8	1516.3	6.86	1679.3	64.54
8177.0	88.64	66.25	6527.4	1711.2	734.9	1545.4	7.51	1711.2	64.57
8209.0	93.39	67.13	6526.9	1743.2	747.6	1574.8	15.10	1743.2	64.60
8241.0	90.22	65.37	6525.9	1775.2	760.5	1604.0	11.33	1775.2	64.63
8273.0	87.23	64.49	6526.6	1807.2	774.0	1633.0	9.74	1807.2	64.64
8305.0	87.67	63.87	6528.0	1839.1	787.9	1661.8	2.37	1839.1	64.63
8339.0	87.76	64.05	6529.3	1873.1	802.9	1692.3	0.59	1873.1	64.62
8370.0	85.56	64.14	6531.2	1904.0	816.4	1720.1	7.10	1904.0	64.61
8402.0	85.74	62.91	6533.6	1935.9	830.6	1748.7	3.87	1935.9	64.59
8434.0	86.17	63.26	6535.8	1967.8	845.1	1777.2	1.73	1967.8	64.57
8466.0	85.82	64.40	6538.1	1999.8	859.1	1805.8	3.72	1999.8	64.56
8498.0	86.53	64.14	6540.2	2031.7	873.0	1834.6	2.36	2031.7	64.55
8530.0	85.82	65.02	6542.3	2063.6	886.7	1863.4	3.53	2063.6	64.55
8561.0	86.09	64.05	6544.5	2094.5	900.0	1891.3	3.24	2094.5	64.55
8593.0	86.97	63.26	6546.5	2126.5	914.2	1920.0	3.69	2126.5	64.54
8625.0	85.55	65.02	6548.6	2158.4	928.1	1948.7	7.06	2158.4	64.53
8657.0	84.94	65.63	6551.2	2190.3	941.4	1977.7	2.69	2190.3	64.54
8689.0	84.68	65.02	6554.1	2222.2	954.7	2006.6	2.06	2222.2	64.56
8720.0	85.91	65.37	6556.6	2253.1	967.7	2034.7	4.12	2253.1	64.56
8752.0	85.82	65.63	6558.9	2285.0	980.9	2063.7	0.86	2285.0	64.58
8789.0	85.12	65.54	6561.9	2321.8	996.2	2097.3	1.91	2321.8	64.59
8816.0	86.00	63.79	6564.0	2348.8	1007.7	2121.6	7.24	2348.8	64.59
8848.0	87.05	64.14	6565.9	2380.7	1021.7	2150.3	3.46	2380.7	64.59
8880.0	88.46	64.75	6567.2	2412.7	1035.5	2179.2	4.80	2412.7	64.58
8907.0	88.29	65.28	6567.9	2439.7	1046.9	2203.6	2.06	2439.7	64.59
8944.0	88.29	65.28	6569.0	2476.6	1062.4	2237.2	0.00	2476.6	64.60

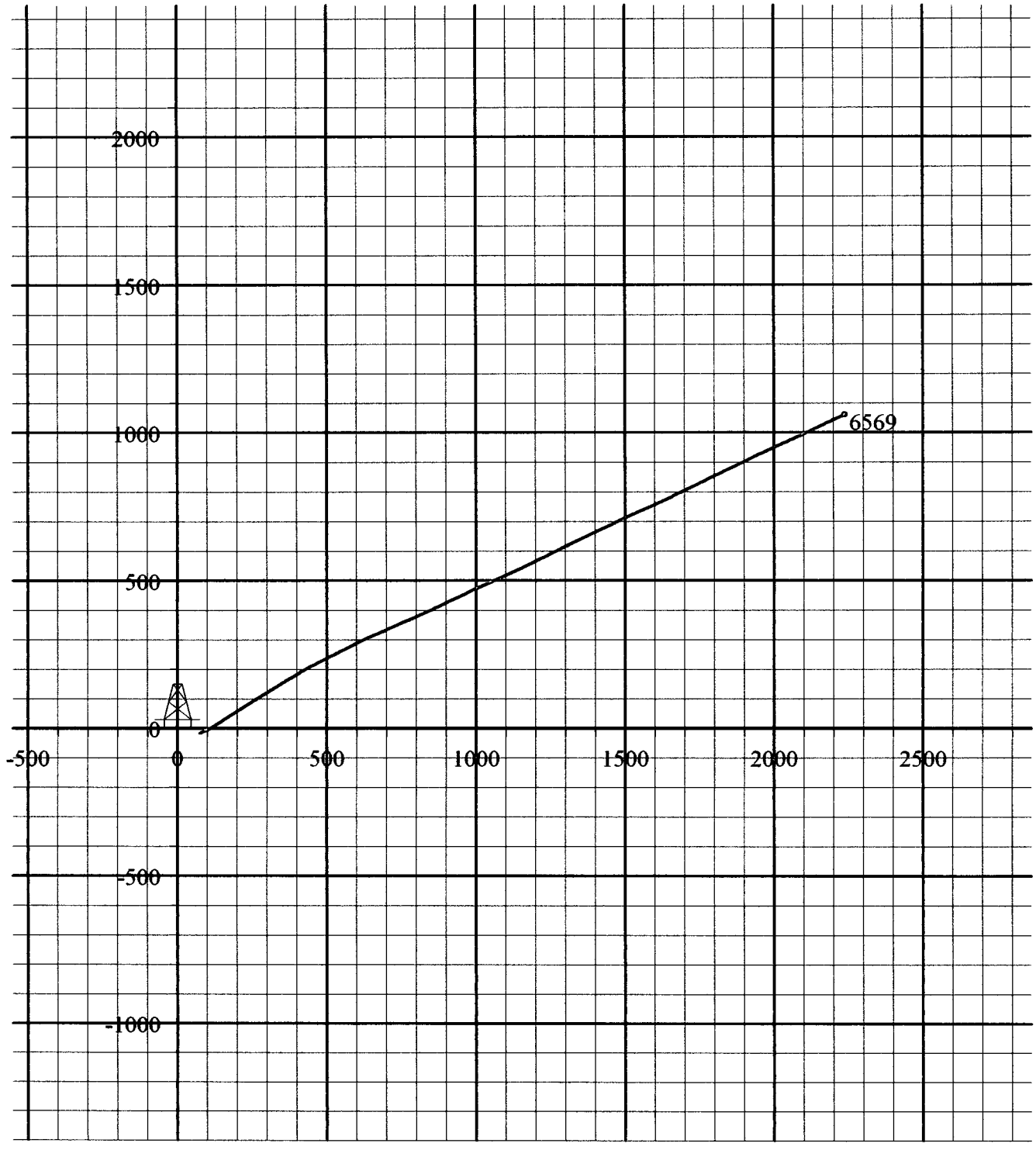
Scientific Drilling

Field: Drinkard
Site: Lea County, NM
Well: Central Drinkard #150H
Wellpath: DH - Job #32D0204075
Survey: 02/04/04-02/13/04

G/T/M

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

Magnetic Field
Strength: 0nT
Dip Angle: 0.00°
Date: 2/19/2004
Model: Wmm_95



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

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