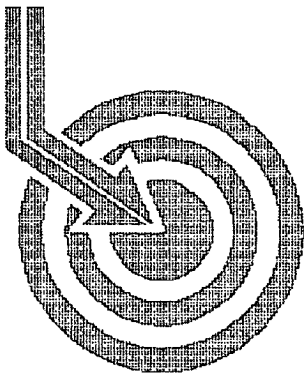




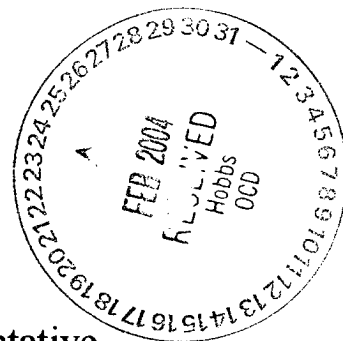
Scientific Drilling

SUR: H-31-21s-37e, 1980/N & 330/E
BHL: C-32-21s-37e, 620/N & 1700/W
API # 30-025-06921

CHEVRONTXACO

Field: Drinkard
Site: Lea County, NM
Well: Central Drinkard #136H
Wellpath: DH - Job #32D0104051
Survey: 01/23/04-02/02/04

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

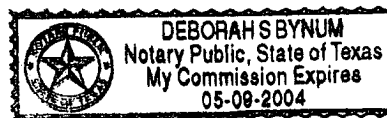


[Signature] Company Representative

Notorized this date 19th of February, 2004.

Deborah Sue Bynum
Notary Signature

County of Midland
State of Texas



Scientific Drilling Survey Report

Company: CHEVRONTEXACO Field: Drinkard Site: Lea County, NM Well: Central Drinkard #136H Wellpath: VH - Job #32K0104052	Date: 2/19/2004 Co-ordinate(NE) Reference: Vertical (TVD) Reference: Section (VS) Reference: Survey Calculation Method:	Time: 12:29:19 Site: Lea County, NM, Grid North SITE: 0.0 Well (0.00N,0.00E,56.18Azi) Minimum Curvature	Page: 1 Db: Sybase
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Survey: 01/24/04 KSRG 0'-6460' Company: Scientific Drilling Tool: Keeper, Keeper Gyro	Start Date: 1/24/2004 Engineer: Angel Guebara Tied-to: From Surface	
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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	0.15	351.72	100.0	0.1	0.1	0.0	0.15	0.1	351.72
200.0	0.15	351.45	200.0	0.2	0.4	-0.1	0.00	0.4	351.63
300.0	0.17	10.72	300.0	0.3	0.7	0.0	0.06	0.7	355.78
400.0	0.34	26.71	400.0	0.7	1.1	0.1	0.18	1.1	5.95
500.0	0.07	32.24	500.0	1.0	1.4	0.3	0.27	1.4	11.30
600.0	0.09	36.47	600.0	1.1	1.5	0.4	0.02	1.5	13.34
700.0	0.07	27.48	700.0	1.3	1.6	0.4	0.02	1.7	14.90
800.0	0.05	54.76	800.0	1.4	1.7	0.5	0.03	1.8	16.24
900.0	0.17	193.77	900.0	1.3	1.6	0.5	0.21	1.7	17.39
1000.0	0.45	259.11	1000.0	0.8	1.4	0.1	0.41	1.4	3.15
1100.0	0.41	293.23	1100.0	0.3	1.4	-0.6	0.26	1.6	335.95
1200.0	0.35	286.80	1200.0	-0.1	1.7	-1.3	0.07	2.1	322.82
1300.0	0.23	304.96	1300.0	-0.4	1.9	-1.7	0.15	2.5	317.37
1400.0	0.31	295.60	1400.0	-0.6	2.1	-2.1	0.09	3.0	314.61
1500.0	0.39	217.69	1500.0	-1.1	1.9	-2.6	0.44	3.2	307.03
1600.0	0.54	255.55	1600.0	-1.8	1.6	-3.2	0.33	3.6	295.66
1700.0	0.55	258.54	1700.0	-2.7	1.3	-4.2	0.03	4.4	287.88
1800.0	0.28	301.49	1800.0	-3.3	1.4	-4.8	0.39	5.0	285.86
1900.0	0.07	7.84	1900.0	-3.3	1.6	-5.0	0.26	5.3	287.23
2000.0	0.41	53.06	2000.0	-2.9	1.8	-4.8	0.36	5.1	291.17
2100.0	0.70	20.90	2100.0	-2.1	2.6	-4.2	0.41	5.0	301.72
2200.0	0.99	22.43	2200.0	-0.9	4.0	-3.7	0.29	5.4	317.19
2300.0	1.12	27.09	2299.9	0.7	5.7	-2.9	0.16	6.4	332.67
2400.0	1.12	42.65	2399.9	2.5	7.3	-1.8	0.30	7.5	345.91
2500.0	1.20	51.87	2499.9	4.5	8.6	-0.3	0.20	8.6	357.78
2600.0	1.19	57.88	2599.9	6.6	9.8	1.4	0.13	9.9	7.94
2700.0	1.14	61.68	2699.9	8.6	10.8	3.1	0.09	11.3	16.08
2800.0	1.21	63.96	2799.8	10.7	11.8	4.9	0.08	12.8	22.79
2900.0	1.23	65.85	2899.8	12.8	12.7	6.9	0.04	14.4	28.47
3000.0	1.27	68.19	2999.8	14.9	13.5	8.9	0.06	16.2	33.29
3100.0	1.25	71.99	3099.8	17.0	14.3	11.0	0.09	18.0	37.49
3200.0	0.91	82.99	3199.8	18.8	14.7	12.8	0.40	19.5	40.97
3300.0	0.62	66.22	3299.7	20.0	15.0	14.1	0.36	20.6	43.09
3400.0	0.71	54.63	3399.7	21.2	15.6	15.1	0.16	21.7	43.98
3500.0	0.70	59.01	3499.7	22.4	16.3	16.1	0.05	22.9	44.66
3600.0	0.65	59.54	3599.7	23.6	16.9	17.1	0.05	24.0	45.37
3700.0	0.35	91.59	3699.7	24.4	17.2	17.9	0.40	24.8	46.20
3800.0	0.14	34.42	3799.7	24.8	17.3	18.3	0.30	25.1	46.64
3900.0	0.33	15.97	3899.7	25.1	17.6	18.4	0.20	25.5	46.25
4000.0	0.36	14.03	3999.7	25.6	18.2	18.6	0.03	26.0	45.56
4100.0	0.69	48.83	4099.7	26.4	18.9	19.1	0.44	26.9	45.29
4200.0	1.13	59.06	4199.7	28.0	19.8	20.4	0.47	28.4	45.84
4300.0	1.15	72.69	4299.7	29.9	20.6	22.2	0.27	30.3	47.12
4400.0	1.06	50.44	4399.7	31.8	21.5	23.9	0.44	32.1	47.99
4500.0	0.68	54.35	4499.6	33.3	22.4	25.1	0.38	33.7	48.17
4600.0	1.02	59.41	4599.6	34.8	23.2	26.3	0.35	35.1	48.55
4700.0	0.65	67.55	4699.6	36.2	23.9	27.6	0.39	36.5	49.11
4800.0	0.78	56.62	4799.6	37.5	24.5	28.7	0.19	37.7	49.51

Scientific Drilling Survey Report

Company: CHEVRONTEXACO
Field: Drinkard
Site: Lea County, NM
Well: Central Drinkard #136H
Wellpath: VH - Job #32K0104052

Date: 2/19/2004 **Time:** 12:29:19 **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,56.18Azi)
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	0.90	11.31	4899.6	38.7	25.6	29.4	0.66	39.0	48.92
5000.0	0.66	340.18	4999.6	39.4	27.0	29.4	0.48	39.9	47.46
5100.0	1.03	347.83	5099.6	39.9	28.4	29.0	0.39	40.6	45.62
5200.0	1.11	338.40	5199.6	40.4	30.2	28.5	0.19	41.5	43.33
5300.0	0.51	333.74	5299.6	40.7	31.5	27.9	0.60	42.0	41.57
5400.0	0.63	338.85	5399.6	40.9	32.4	27.5	0.13	42.5	40.35
5500.0	0.73	352.29	5499.5	41.3	33.5	27.2	0.19	43.2	39.08
5600.0	0.70	350.06	5599.5	41.8	34.7	27.0	0.04	44.0	37.88
5700.0	0.40	1.84	5699.5	42.2	35.7	26.9	0.32	44.7	37.04
5800.0	0.32	350.44	5799.5	42.6	36.3	26.9	0.11	45.2	36.52
5900.0	0.63	340.04	5899.5	42.8	37.1	26.7	0.32	45.7	35.70
6000.0	0.28	10.19	5999.5	43.1	37.9	26.5	0.41	46.2	35.00
6100.0	0.46	7.78	6099.5	43.6	38.5	26.6	0.18	46.8	34.65
6200.0	0.47	346.35	6199.5	44.0	39.3	26.6	0.17	47.4	34.07
6300.0	0.46	281.01	6299.5	43.8	39.8	26.1	0.50	47.6	33.25
6400.0	0.19	226.49	6399.5	43.4	39.7	25.6	0.38	47.3	32.76
6460.0	0.08	110.93	6459.5	43.3	39.7	25.5	0.39	47.2	32.78

Scientific Drilling Survey Report

Company: CHEVRONTEXACO Field: Drinkard Site: Lea County, NM Well: Central Drinkard #136H Wellpath: DH - Job #32D0104051	Date: 2/19/2004 Time: 12:32:23 Page: 1 Co-ordinate(NE) Reference: Site: Lea County, NM, Grid North Vertical (TVD) Reference: SITE 0.0 Section (VS) Reference: Well (0.00N,0.00E,56.18Azi) Survey Calculation Method: Minimum Curvature Db: Sybase
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Survey: 01/23/04-02/02/04 MWD 6483'-8951' Company: Scientific Drilling Tool: MWD,MWD	Start Date: 1/23/2004 Engineer: Lamb/Melendez/Hendrix Tied-to: From: Definitive Path
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Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
6460.0	0.08	110.93	6459.5	43.3	39.7	25.5	0.00	47.2	32.78
6483.0	0.08	110.93	6482.5	43.3	39.6	25.6	0.00	47.2	32.82
6535.0	27.35	61.57	6532.6	55.5	45.4	36.3	52.50	58.2	38.63
6553.0	37.37	62.71	6547.7	65.0	49.9	44.8	55.77	67.1	41.92
6565.0	43.62	62.89	6556.9	72.8	53.5	51.8	52.09	74.4	44.06
6575.0	48.80	62.10	6563.8	79.9	56.8	58.2	52.11	81.3	45.67
6585.0	53.11	60.87	6570.1	87.7	60.5	65.0	44.14	88.8	47.03
6595.0	56.45	60.51	6575.9	95.8	64.5	72.1	33.53	96.8	48.17
6605.0	60.15	59.90	6581.1	104.3	68.7	79.5	37.36	105.1	49.14
6617.0	64.28	59.90	6586.7	114.9	74.1	88.7	34.42	115.5	50.12
6649.0	75.18	57.52	6597.8	144.8	89.7	114.3	34.77	145.2	51.88
6681.0	85.74	53.83	6603.1	176.3	107.4	140.3	34.90	176.7	52.55
6712.0	90.75	54.27	6604.0	207.3	125.6	165.3	16.22	207.7	52.77
6744.0	91.01	53.66	6603.5	239.3	144.4	191.2	2.07	239.6	52.93
6776.0	89.79	59.11	6603.3	271.2	162.2	217.9	17.45	271.6	53.34
6808.0	89.69	62.27	6603.4	303.1	177.8	245.8	9.88	303.3	54.11
6840.0	90.04	61.74	6603.5	335.0	192.8	274.0	1.98	335.1	54.86
6872.0	90.13	61.83	6603.5	366.8	208.0	302.2	0.40	366.9	55.47
6904.0	90.48	57.79	6603.3	398.8	224.1	329.9	12.67	398.8	55.81
6936.0	91.19	57.97	6602.8	430.7	241.1	357.0	2.29	430.7	55.97
6968.0	91.10	57.09	6602.2	462.7	258.2	384.0	2.76	462.7	56.08
7000.0	92.07	57.26	6601.3	494.7	275.6	410.8	3.08	494.7	56.15
7032.0	92.15	56.65	6600.1	526.7	293.0	437.6	1.92	526.7	56.20
7064.0	89.87	57.17	6599.6	558.7	310.5	464.4	7.31	558.7	56.24
7096.0	90.22	56.30	6599.5	590.7	328.0	491.2	2.93	590.7	56.26
7128.0	90.13	56.30	6599.4	622.7	345.8	517.8	0.28	622.7	56.27
7160.0	90.31	55.07	6599.3	654.7	363.8	544.3	3.88	654.7	56.24
7192.0	89.52	53.66	6599.4	686.6	382.5	570.3	5.05	686.6	56.15
7224.0	89.69	53.66	6599.6	718.6	401.4	596.0	0.53	718.6	56.04
7257.0	91.89	56.03	6599.1	751.6	420.4	623.0	9.80	751.6	55.99
7288.0	91.98	56.56	6598.1	782.6	437.6	648.8	1.73	782.6	56.00
7320.0	91.10	56.21	6597.2	814.6	455.3	675.4	2.96	814.6	56.01
7352.0	93.21	56.74	6596.0	846.5	473.0	702.1	6.80	846.5	56.03
7384.0	93.65	56.82	6594.1	878.5	490.5	728.8	1.40	878.5	56.06
7416.0	94.00	57.53	6592.0	910.4	507.8	755.6	2.47	910.4	56.10
7447.0	94.35	57.88	6589.7	941.3	524.3	781.8	1.59	941.3	56.15
7479.0	94.53	58.23	6587.2	973.2	541.2	808.8	1.23	973.2	56.21
7510.0	93.21	57.61	6585.2	1004.1	557.6	835.0	4.70	1004.1	56.27
7543.0	92.59	57.97	6583.5	1037.1	575.2	862.9	2.17	1037.1	56.31
7574.0	88.46	55.42	6583.2	1068.0	592.2	888.8	15.66	1068.1	56.33
7606.0	88.46	54.36	6584.1	1100.0	610.6	915.0	3.31	1100.0	56.28
7638.0	90.92	54.98	6584.2	1132.0	629.1	941.1	7.93	1132.0	56.24
7670.0	90.84	55.42	6583.7	1164.0	647.4	967.4	1.40	1164.0	56.21
7701.0	91.28	55.24	6583.2	1195.0	665.0	992.9	1.53	1195.0	56.19
7733.0	92.77	55.50	6582.0	1227.0	683.2	1019.2	4.73	1227.0	56.17
7765.0	91.63	55.07	6580.8	1258.9	701.4	1045.5	3.81	1258.9	56.14
7797.0	90.84	54.54	6580.1	1290.9	719.8	1071.6	2.97	1290.9	56.11
7829.0	94.79	55.94	6578.5	1322.9	738.0	1097.9	13.09	1322.9	56.09
7861.0	94.09	55.42	6576.1	1354.8	756.0	1124.2	2.72	1354.8	56.08

Scientific Drilling

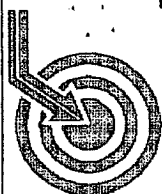
Survey Report

Company: CHEVRONTEXACO
Field: Drinkard
Site: Lea County, NM
Well: Central Drinkard #136H
Wellpath: DH - Job #32D0104051

Date: 2/19/2004 **Time:** 12:32:23 **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,56.18Azi)
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
7893.0	93.65	55.24	6573.9	1386.7	774.2	1150.5	1.49	1386.7	56.06
7925.0	92.42	56.56	6572.2	1418.7	792.1	1176.9	5.63	1418.7	56.06
7957.0	91.63	56.56	6571.1	1450.6	809.7	1203.6	2.47	1450.6	56.07
7989.0	90.22	56.38	6570.6	1482.6	827.4	1230.3	4.44	1482.6	56.08
8020.0	91.98	56.21	6570.0	1513.6	844.6	1256.1	5.70	1513.6	56.08
8052.0	91.45	56.38	6569.0	1545.6	862.4	1282.7	1.74	1545.6	56.09
8084.0	92.24	56.56	6568.0	1577.6	880.0	1309.3	2.53	1577.6	56.09
8116.0	91.10	56.38	6567.1	1609.6	897.7	1336.0	3.61	1609.6	56.10
8148.0	92.77	56.65	6566.0	1641.6	915.3	1362.7	5.29	1641.6	56.11
8180.0	92.33	56.65	6564.5	1673.5	932.9	1389.4	1.37	1673.5	56.12
8212.0	93.74	56.82	6562.9	1705.5	950.4	1416.1	4.44	1705.5	56.13
8245.0	92.95	56.12	6560.9	1738.4	968.6	1443.6	3.20	1738.4	56.14
8277.0	92.95	55.77	6559.3	1770.4	986.5	1470.0	1.09	1770.4	56.13
8309.0	92.59	55.15	6557.7	1802.3	1004.6	1496.4	2.24	1802.3	56.12
8340.0	92.42	54.63	6556.4	1833.3	1022.5	1521.7	1.76	1833.3	56.10
8372.0	91.98	53.75	6555.2	1865.3	1041.2	1547.6	3.07	1865.3	56.07
8404.0	91.89	56.56	6554.1	1897.2	1059.4	1573.9	8.78	1897.2	56.05
8436.0	91.80	55.94	6553.0	1929.2	1077.2	1600.5	1.96	1929.2	56.06
8468.0	91.71	57.70	6552.1	1961.2	1094.7	1627.2	5.50	1961.2	56.07
8499.0	90.92	58.14	6551.3	1992.2	1111.2	1653.5	2.92	1992.2	56.10
8531.0	90.92	57.70	6550.8	2024.2	1128.2	1680.6	1.37	2024.2	56.13
8563.0	92.33	56.82	6549.9	2056.1	1145.5	1707.5	5.19	2056.1	56.14
8594.0	91.54	55.94	6548.9	2087.1	1162.6	1733.3	3.81	2087.1	56.15
8627.0	92.68	56.65	6547.7	2120.1	1180.9	1760.7	4.07	2120.1	56.15
8659.0	91.98	56.03	6546.4	2152.1	1198.6	1787.4	2.92	2152.1	56.15
8691.0	92.33	56.65	6545.2	2184.0	1216.4	1814.0	2.22	2184.0	56.16
8723.0	93.47	57.44	6543.5	2216.0	1233.7	1840.8	4.33	2216.0	56.17
8755.0	92.42	57.35	6541.9	2247.9	1251.0	1867.7	3.29	2247.9	56.19
8787.0	91.63	57.26	6540.8	2279.9	1268.2	1894.6	2.48	2279.9	56.20
8819.0	90.84	57.17	6540.1	2311.9	1285.6	1921.5	2.48	2311.9	56.22
8850.0	90.92	56.21	6539.6	2342.9	1302.6	1947.4	3.11	2342.9	56.22
8882.0	90.92	55.68	6539.1	2374.9	1320.5	1973.9	1.66	2374.9	56.22
8914.0	93.91	54.27	6537.7	2406.9	1338.9	2000.1	10.33	2406.9	56.20
8951.0	93.91	54.27	6535.2	2443.7	1360.4	2030.1	0.00	2443.7	56.17



**Scientific
Drilling**

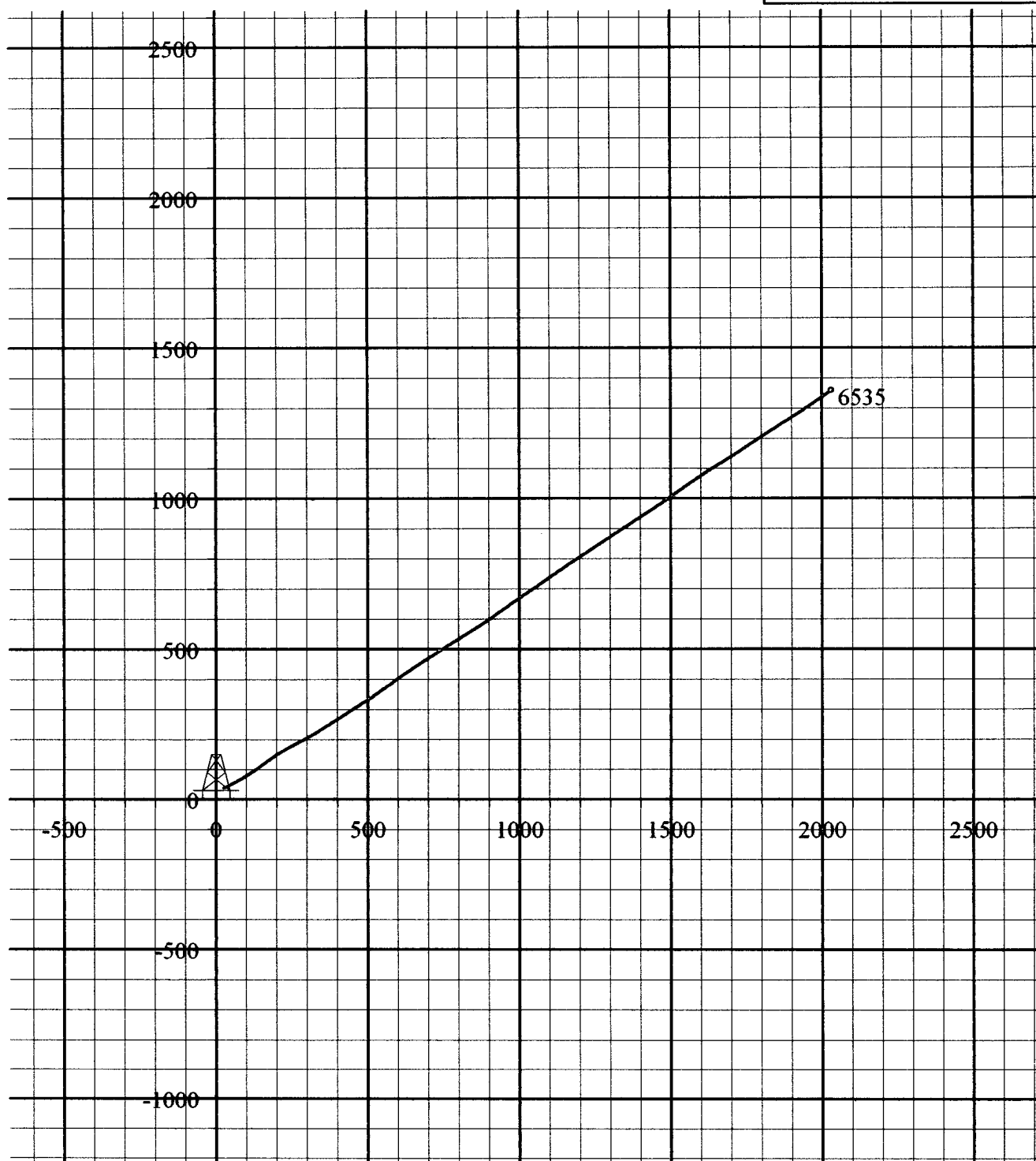
Field: Drinkard
Site: Lea County, NM
Well: Central Drinkard #136H
Wellpath: DH - Job #32D0104051
Survey: 01/23/04-02/02/04



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]