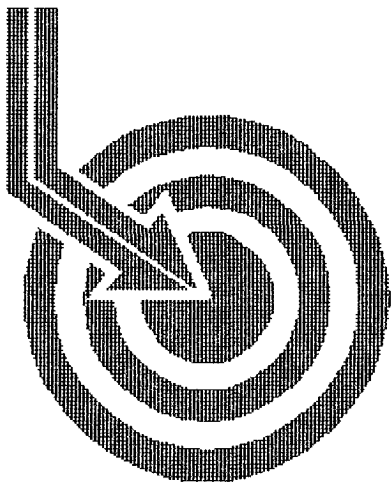




Scientific Drilling

RECEIVED

AUG 27 2010
HOBBSOCD

CONOCOPHILLIPS

Field: Warren Drinkard
Site: Lea County, NM
Well: Warren Unit #345
Wellpath: VH - Job #32K0710504
Survey: 07/06/10

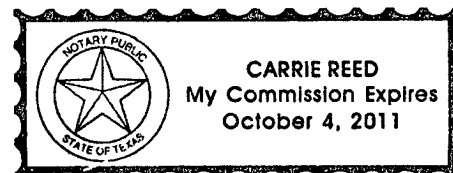
30-025-39726
Unit K, 27-20s-38e
2540/s & 1330/w

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

Warren Drinkard
Company Representative

Notarized this date 4th of August, 2010.

Carrie Reed
Notary Signature
County of Midland
State of Texas





Scientific Drilling International, Inc.

Survey Report

Company: CONOCOPHILLIPS
Field: Warren Drinkard
Site: Lea County, NM
Well: Warren Unit #345
Wellpath: VH - Job #32K0710504

Date: 7/12/2010
Co-ordinate(NE) Reference: Site: Lea County, NM, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,238.26Azi)
Survey Calculation Method: Minimum Curvature

Page: 1
Db: Sybase

Survey: 07/06/10
Start Date: 7/6/2010
Company: Scientific Drilling Internatio
Engineer: Guebara w/SLB
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	0.00	0.0	0.0	0.0	0.0	0.00	0.0	0.00
100.0	0.46	314.95	100.0	0.1	0.3	-0.3	0.46	0.4	314.95
150.0	0.38	326.88	150.0	0.1	0.6	-0.5	0.24	0.8	317.52
200.0	0.42	330.35	200.0	0.1	0.9	-0.7	0.09	1.1	321.01
250.0	0.48	316.27	250.0	0.2	1.2	-0.9	0.25	1.5	321.49
300.0	0.34	294.13	300.0	0.3	1.4	-1.2	0.42	1.8	318.77
350.0	0.11	217.42	350.0	0.4	1.4	-1.4	0.66	2.0	315.60
400.0	0.07	292.16	400.0	0.5	1.4	-1.4	0.23	2.0	313.89
450.0	0.31	284.48	450.0	0.6	1.4	-1.6	0.48	2.1	311.81
500.0	0.09	256.42	500.0	0.7	1.5	-1.8	0.47	2.3	309.44
550.0	0.29	288.73	550.0	0.9	1.5	-1.9	0.44	2.4	307.64
600.0	0.33	257.46	600.0	1.1	1.5	-2.2	0.34	2.6	304.35
650.0	0.24	237.97	650.0	1.3	1.4	-2.4	0.26	2.8	300.22
700.0	0.29	161.70	700.0	1.4	1.2	-2.5	0.66	2.8	296.54
750.0	0.20	168.08	750.0	1.5	1.0	-2.4	0.19	2.6	293.07
800.0	0.17	209.34	800.0	1.6	0.9	-2.4	0.27	2.6	289.84
850.0	0.25	262.17	850.0	1.8	0.8	-2.6	0.40	2.7	287.20
900.0	0.17	223.23	900.0	1.9	0.7	-2.7	0.32	2.8	284.90
950.0	0.28	159.62	950.0	2.0	0.6	-2.7	0.51	2.8	281.51
1000.0	0.23	156.71	1000.0	2.1	0.3	-2.7	0.10	2.7	277.52
1050.0	0.16	161.06	1050.0	2.1	0.2	-2.6	0.14	2.6	274.24
1100.0	0.08	187.73	1100.0	2.1	0.1	-2.6	0.19	2.6	272.03
1150.0	0.45	153.80	1150.0	2.2	-0.1	-2.5	0.77	2.5	267.25
1200.0	0.46	130.26	1200.0	2.1	-0.4	-2.2	0.37	2.3	259.28
1250.0	0.19	181.27	1250.0	2.1	-0.6	-2.1	0.74	2.2	253.07
1300.0	0.37	127.39	1300.0	2.1	-0.8	-2.0	0.60	2.1	247.43
1350.0	0.48	161.87	1350.0	2.1	-1.1	-1.8	0.55	2.1	237.87
1400.0	0.48	177.76	1400.0	2.3	-1.5	-1.7	0.27	2.3	228.18
1450.0	0.58	151.37	1450.0	2.4	-2.0	-1.6	0.52	2.5	218.83
1500.0	0.55	171.00	1500.0	2.5	-2.4	-1.4	0.39	2.8	210.38
1550.0	0.51	151.34	1550.0	2.6	-2.8	-1.3	0.37	3.1	204.06
1600.0	0.51	152.33	1600.0	2.6	-3.2	-1.1	0.02	3.4	198.14
1650.0	0.17	180.20	1650.0	2.7	-3.5	-1.0	0.74	3.6	195.27
1700.0	0.34	137.13	1700.0	2.7	-3.7	-0.9	0.49	3.8	193.07
1750.0	0.17	166.18	1750.0	2.7	-3.9	-0.7	0.42	3.9	190.80
1800.0	0.43	79.95	1800.0	2.5	-3.9	-0.5	0.90	4.0	187.81
1850.0	0.32	72.89	1850.0	2.2	-3.8	-0.2	0.24	3.8	183.25
1900.0	0.72	31.83	1900.0	1.8	-3.5	0.1	1.05	3.5	178.69
1950.0	1.01	44.21	1950.0	1.1	-2.9	0.6	0.69	3.0	169.37
2000.0	1.34	41.20	2000.0	0.1	-2.2	1.2	0.67	2.5	150.40
2050.0	1.75	47.87	2049.9	-1.2	-1.2	2.2	0.89	2.5	119.47
2100.0	1.89	44.15	2099.9	-2.8	-0.1	3.3	0.37	3.3	92.36
2150.0	2.19	48.58	2149.9	-4.5	1.1	4.6	0.68	4.8	76.80
2200.0	2.50	45.33	2199.8	-6.5	2.5	6.1	0.67	6.6	67.91
2250.0	2.53	47.09	2249.8	-8.7	4.0	7.7	0.17	8.7	62.55
2300.0	2.95	51.63	2299.7	-11.0	5.6	9.5	0.94	11.0	59.75
2350.0	2.92	50.71	2349.7	-13.6	7.2	11.5	0.11	13.6	58.14
2400.0	3.05	55.21	2399.6	-16.1	8.7	13.6	0.54	16.2	57.31
2450.0	3.10	51.83	2449.5	-18.8	10.3	15.7	0.38	18.8	56.77



Scientific Drilling International, Inc.

Survey Report

Company: CONOCOPHILLIPS
 Field: Warren Drinkard
 Site: Lea County, NM
 Well: Warren Unit #345
 Wellpath: VH - Job #32K0710504

Date: 7/12/2010 Time: 15:39:04 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,238.26Azi)
 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
2500.0	3.14	54.06	2499.4	-21.5	12.0	17.9	0.26	21.5	56.29
2550.0	3.20	55.00	2549.4	-24.3	13.6	20.2	0.16	24.3	56.09
2600.0	3.18	53.05	2599.3	-27.1	15.2	22.4	0.22	27.1	55.88
2650.0	3.18	53.87	2649.2	-29.8	16.8	24.7	0.09	29.9	55.65
2700.0	2.79	54.61	2699.2	-32.4	18.4	26.8	0.78	32.5	55.54
2750.0	2.51	50.15	2749.1	-34.7	19.8	28.6	0.70	34.8	55.34
2800.0	2.37	54.30	2799.1	-36.8	21.1	30.3	0.45	36.9	55.15
2850.0	2.10	45.79	2849.0	-38.8	22.3	31.8	0.85	38.8	54.91
2900.0	1.90	47.87	2899.0	-40.5	23.5	33.0	0.43	40.6	54.56
2950.0	1.57	45.22	2949.0	-42.0	24.6	34.1	0.68	42.1	54.28
3000.0	1.37	46.55	2998.9	-43.2	25.4	35.1	0.41	43.3	54.03
3050.0	1.07	33.08	3048.9	-44.2	26.3	35.8	0.83	44.4	53.71
3100.0	0.69	38.44	3098.9	-44.9	26.9	36.2	0.78	45.1	53.40
3150.0	0.53	4.90	3148.9	-45.3	27.3	36.4	0.77	45.5	53.09
3200.0	0.14	84.46	3198.9	-45.5	27.6	36.5	1.05	45.7	52.91
3250.0	0.03	231.33	3248.9	-45.6	27.6	36.5	0.33	45.8	52.95
3300.0	0.11	244.43	3298.9	-45.5	27.5	36.5	0.16	45.7	52.94
3350.0	0.42	239.62	3348.9	-45.3	27.4	36.3	0.62	45.5	52.90
3400.0	0.52	231.99	3398.9	-44.9	27.2	35.9	0.24	45.1	52.88
3450.0	0.69	231.98	3448.9	-44.4	26.9	35.5	0.34	44.5	52.89
3500.0	0.91	232.78	3498.9	-43.7	26.5	35.0	0.44	43.9	52.90
3550.0	0.82	234.53	3548.9	-42.9	26.0	34.4	0.19	43.1	52.88
3600.0	1.06	227.56	3598.9	-42.1	25.5	33.7	0.53	42.3	52.93
3650.0	1.05	229.37	3648.9	-41.2	24.9	33.0	0.07	41.4	53.03
3700.0	1.03	234.19	3698.9	-40.3	24.3	32.3	0.18	40.5	53.06
3750.0	1.07	220.69	3748.9	-39.4	23.7	31.7	0.50	39.5	53.19
3800.0	1.04	232.75	3798.9	-38.5	23.1	31.0	0.45	38.6	53.34
3850.0	1.08	225.79	3848.9	-37.6	22.5	30.3	0.27	37.7	53.45
3900.0	0.92	219.57	3898.9	-36.7	21.8	29.7	0.39	36.9	53.69
3950.0	1.13	229.63	3948.8	-35.9	21.2	29.1	0.55	36.0	53.90
4000.0	1.09	230.76	3998.8	-34.9	20.6	28.3	0.09	35.0	54.01
4050.0	1.19	224.98	4048.8	-33.9	19.9	27.6	0.30	34.0	54.19
4100.0	1.08	224.39	4098.8	-33.0	19.2	26.9	0.22	33.1	54.47
4150.0	1.28	227.34	4148.8	-32.0	18.5	26.2	0.42	32.0	54.74
4200.0	1.11	221.40	4198.8	-31.0	17.7	25.4	0.42	31.0	55.08
4250.0	1.45	229.87	4248.8	-29.9	17.0	24.6	0.78	29.9	55.41
4300.0	1.42	226.30	4298.8	-28.6	16.1	23.7	0.19	28.7	55.73
4350.0	1.59	235.62	4348.7	-27.3	15.3	22.7	0.59	27.4	55.95
4400.0	1.45	221.40	4398.7	-26.0	14.5	21.7	0.80	26.1	56.30
4450.0	1.44	226.89	4448.7	-24.8	13.6	20.8	0.28	24.8	56.92
4500.0	1.45	224.50	4498.7	-23.6	12.7	19.9	0.12	23.6	57.51
4550.0	1.24	219.38	4548.7	-22.5	11.8	19.1	0.48	22.5	58.31
4600.0	1.37	218.63	4598.7	-21.4	10.9	18.4	0.26	21.4	59.31
4650.0	1.27	229.11	4648.7	-20.3	10.1	17.6	0.52	20.3	60.19
4700.0	1.52	232.68	4698.6	-19.1	9.3	16.7	0.53	19.1	60.77
4750.0	1.39	233.56	4748.6	-17.8	8.6	15.6	0.26	17.8	61.31
4800.0	1.51	231.87	4798.6	-16.5	7.8	14.6	0.25	16.6	61.97
4850.0	1.44	223.92	4848.6	-15.3	6.9	13.7	0.43	15.3	63.13
4900.0	1.38	231.01	4898.6	-14.1	6.1	12.8	0.37	14.2	64.47
4950.0	1.49	224.87	4948.6	-12.9	5.3	11.9	0.38	13.0	66.06
5000.0	1.24	218.97	4998.5	-11.7	4.4	11.1	0.57	11.9	68.38
5050.0	1.19	230.37	5048.5	-10.7	3.6	10.3	0.49	10.9	70.61



Scientific Drilling International, Inc.

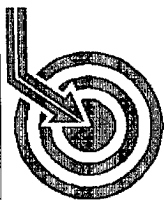
Survey Report

Company: CONOCOPHILLIPS
 Field: Warren Drinkard
 Site: Lea County, NM
 Well: Warren Unit #345
 Wellpath: VH - Job #32K0710504

Date: 7/12/2010 Time: 15:39:04 Page: 3
 Co-ordinate(NE) Reference: Site: Lea County, NM, Grid North
 Vertical (TVD) Reference: SITE 0.0
 Section (VS) Reference: Well (0.00N,0.00E,238.26Azi)
 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

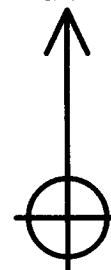
MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
5100.0	1.24	237.14	5098.5	-9.6	3.0	9.5	0.30	9.9	72.37
5150.0	1.35	231.84	5148.5	-8.5	2.3	8.5	0.33	8.9	74.63
5200.0	1.14	237.04	5198.5	-7.4	1.7	7.7	0.48	7.9	77.39
5250.0	1.17	234.15	5248.5	-6.4	1.1	6.8	0.13	6.9	80.49
5300.0	1.12	232.57	5298.5	-5.4	0.5	6.0	0.12	6.1	84.80
5350.0	1.20	239.10	5348.5	-4.4	0.0	5.2	0.31	5.2	90.19
5400.0	1.43	237.24	5398.5	-3.3	-0.6	4.2	0.47	4.3	98.41
5450.0	1.16	234.20	5448.4	-2.1	-1.3	3.3	0.56	3.5	110.96
5500.0	1.49	239.10	5498.4	-1.0	-1.9	2.3	0.70	3.0	129.19
5550.0	1.10	245.16	5548.4	0.2	-2.4	1.3	0.83	2.8	151.39
5600.0	1.10	247.03	5598.4	1.1	-2.8	0.4	0.07	2.8	171.02
5650.0	1.15	250.49	5648.4	2.1	-3.2	-0.5	0.17	3.2	188.45
5700.0	1.02	250.86	5698.4	3.0	-3.5	-1.4	0.26	3.7	201.40
5750.0	1.07	254.85	5748.4	3.9	-3.7	-2.2	0.18	4.4	210.81
5800.0	1.06	248.32	5798.4	4.8	-4.0	-3.1	0.24	5.1	217.63
5850.0	1.24	251.36	5848.4	5.8	-4.4	-4.1	0.38	6.0	222.78
5900.0	1.32	251.59	5898.4	6.8	-4.7	-5.1	0.16	7.0	227.19
5950.0	1.32	238.18	5948.3	8.0	-5.2	-6.2	0.62	8.1	229.66
6000.0	1.20	238.60	5998.3	9.1	-5.8	-7.1	0.24	9.2	230.70
6050.0	1.20	241.22	6048.3	10.1	-6.3	-8.0	0.11	10.2	231.64
6100.0	1.33	242.69	6098.3	11.2	-6.8	-9.0	0.27	11.3	232.65
6150.0	1.15	237.83	6148.3	12.3	-7.4	-9.9	0.42	12.4	233.33
6200.0	1.29	237.28	6198.3	13.4	-7.9	-10.8	0.28	13.4	233.66
6250.0	1.15	236.93	6248.3	14.4	-8.5	-11.7	0.28	14.5	233.92
6300.0	1.34	234.31	6298.3	15.5	-9.1	-12.6	0.40	15.6	234.03
6350.0	1.23	233.69	6348.2	16.6	-9.8	-13.5	0.22	16.7	234.03
6400.0	1.28	231.79	6398.2	17.7	-10.5	-14.4	0.13	17.8	233.95
6450.0	1.27	239.98	6448.2	18.8	-11.1	-15.3	0.36	18.9	234.06
6500.0	1.39	243.54	6498.2	20.0	-11.6	-16.3	0.29	20.0	234.51
6550.0	1.47	245.60	6548.2	21.2	-12.2	-17.4	0.19	21.3	235.10
6600.0	1.37	242.82	6598.2	22.5	-12.7	-18.6	0.24	22.5	235.60
6650.0	1.34	246.56	6648.2	23.6	-13.2	-19.6	0.19	23.7	236.05
6700.0	1.19	239.91	6698.2	24.7	-13.7	-20.6	0.42	24.8	236.38
6750.0	1.43	245.48	6748.1	25.9	-14.2	-21.6	0.54	25.9	236.67
6800.0	1.39	247.59	6798.1	27.1	-14.7	-22.8	0.13	27.1	237.11
6850.0	1.55	250.41	6848.1	28.4	-15.2	-24.0	0.35	28.4	237.65
6900.0	1.82	242.38	6898.1	29.8	-15.8	-25.3	0.72	29.8	238.06
6950.0	1.78	236.04	6948.1	31.4	-16.6	-26.6	0.41	31.4	238.12
6984.0	1.78	248.41	6982.0	32.4	-17.1	-27.6	1.13	32.4	238.26



Scientific
Drilling

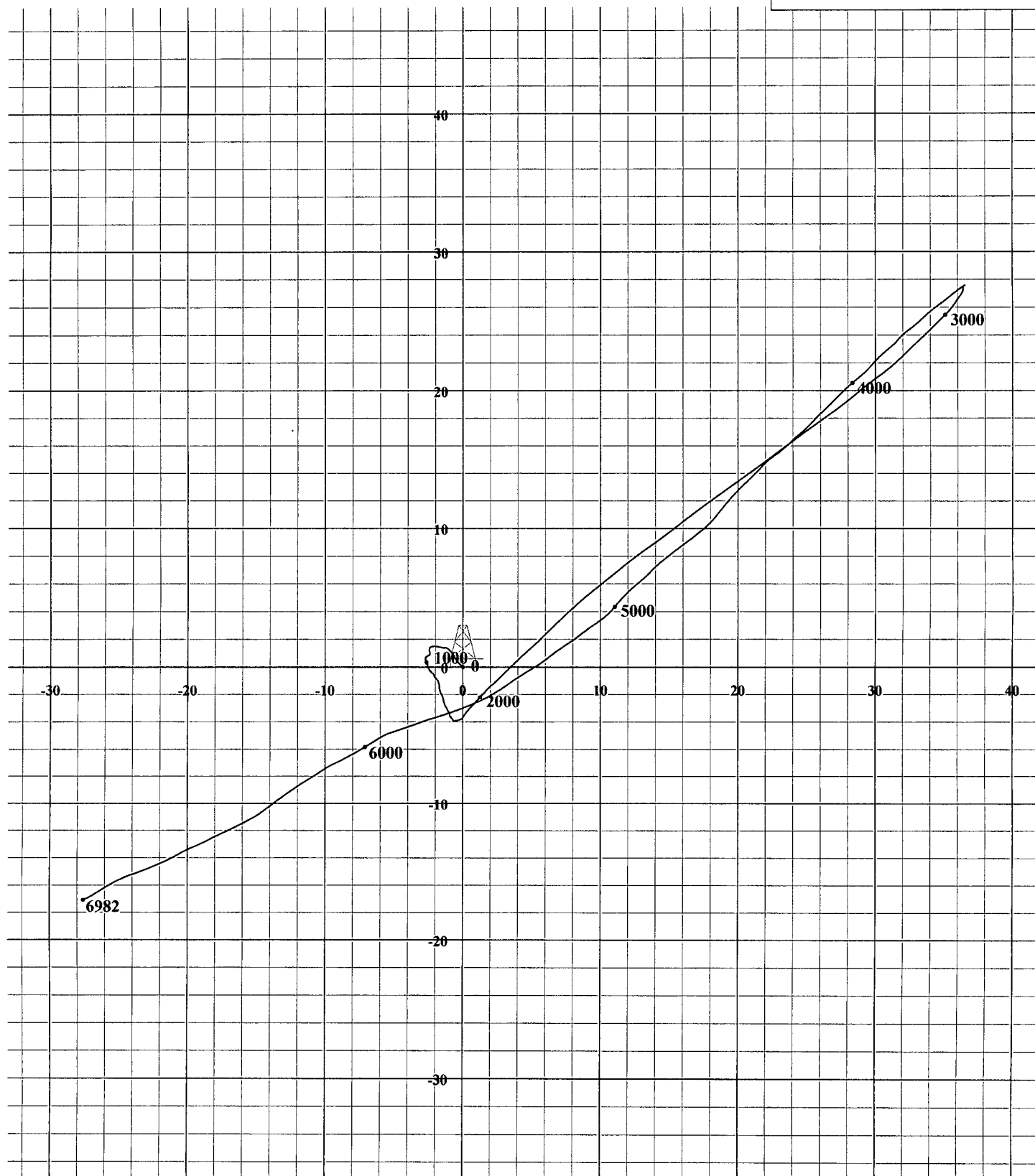
Field: Warren Drinkard
Site: Lea County, NM
Well: Warren Unit #345
Survey: 07/06/10

G/T/M



Azimuths to Grid North
True North 0.00°
Magnetic North 0.00°
Magnetic Field
Dip Angle: 0.00°
Date: 7/12/2010
Model igrf2000

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



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