

Scientific Drilling

SUR: @ B-07-18s-35e, 330/N & 2100/E
BHL @ D-07-18s-35e, 675/N & 4889/E
API # 30-025-03102

CHEVRON

Field: Vacuum Abo Rees
Site: Lea County, NM
Well: AN State Com #2H
Wellpath: DH - Job #32D0706524
Survey: 07/03/06-07/15/06

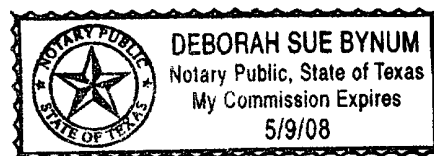
This survey is correct to the best of my knowledge
and is supported by actual field data.

.....*Deborah Sue Bynum*..... Company Representative

Notorized this date 9th of August, 2006.

Deborah Sue Bynum

Notary Signature
County of Midland
State of Texas





Scientific Drilling International Survey Report

Company: CHEVRON	Date: 08/09/2006	Time: 08:28:43	Page: 1
Field: Vacuum Abo Rees	Co-ordinate(NE) Reference:	Site: Lea County, NM, Grid North	
Site: Lea County, NM	Vertical (TVD) Reference:	SITE 0.0	
Well: An State Corn #2H	Section (VS) Reference:	Well (0.00N,0.00E,262.96Azi)	
Wellpath: VH - Job #32K0706534	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: 07/05/06	Start Date: 07/05/2006
KSRG 0'-8055'	
Company: Scientific Drilling Internatio	Engineer: Guebara/Rowe/Rehders
Tool: Keeper;Keeper Gyro	Tied-to: From Surface

Survey

MD ft	Incl deg	Azlm deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
0.00	0.00	359.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.33	317.10	100.00	0.17	0.21	-0.20	0.33	0.29	317.10
200.00	0.26	314.26	200.00	0.48	0.58	-0.55	0.07	0.80	316.30
300.00	0.25	323.65	300.00	0.73	0.91	-0.85	0.04	1.25	317.21
400.00	0.34	310.60	400.00	1.03	1.28	-1.20	0.11	1.76	316.90
500.00	0.39	315.82	499.99	1.44	1.72	-1.66	0.06	2.39	315.97
600.00	0.39	325.15	599.99	1.80	2.24	-2.09	0.06	3.07	316.97
700.00	0.28	329.10	699.99	2.06	2.73	-2.41	0.11	3.64	318.54
800.00	0.19	309.47	799.99	2.27	3.05	-2.67	0.12	4.05	318.81
900.00	0.17	303.52	899.99	2.50	3.24	-2.92	0.03	4.36	317.94
1000.00	0.14	333.02	999.99	2.66	3.43	-3.10	0.08	4.62	317.87
1100.00	0.22	334.54	1099.99	2.76	3.71	-3.24	0.08	4.92	318.88
1200.00	0.24	328.62	1199.99	2.90	4.06	-3.43	0.03	5.31	319.82
1300.00	0.21	345.57	1299.99	3.01	4.42	-3.58	0.07	5.69	320.95
1400.00	0.14	30.70	1399.99	2.96	4.70	-3.57	0.15	5.90	322.80
1500.00	0.15	36.37	1499.99	2.80	4.91	-3.43	0.02	5.99	325.10
1600.00	0.31	47.40	1599.98	2.49	5.20	-3.15	0.16	6.08	328.78
1700.00	0.41	51.51	1699.98	1.97	5.60	-2.67	0.11	6.21	334.48
1800.00	0.37	49.38	1799.98	1.39	6.03	-2.15	0.04	6.41	340.40
1900.00	0.52	44.25	1899.98	0.77	6.57	-1.59	0.15	6.76	346.42
2000.00	0.52	42.10	1999.97	0.07	7.23	-0.97	0.02	7.30	352.39
2100.00	0.53	55.88	2099.97	-0.68	7.83	-0.28	0.13	7.83	357.96
2200.00	0.52	50.24	2199.96	-1.48	8.38	0.45	0.05	8.39	3.09
2300.00	0.62	51.24	2299.96	-2.32	9.01	1.22	0.10	9.09	7.73
2400.00	0.68	58.34	2399.95	-3.32	9.65	2.15	0.10	9.89	12.55
2500.00	0.82	58.26	2499.94	-4.50	10.34	3.26	0.14	10.84	17.50
2600.00	0.78	60.38	2599.93	-5.78	11.05	4.46	0.05	11.92	21.97
2700.00	0.96	61.68	2699.92	-7.19	11.79	5.79	0.18	13.13	26.15
2800.00	0.91	54.63	2799.91	-8.67	12.64	7.17	0.12	14.54	29.56
2900.00	0.97	63.54	2899.90	-10.16	13.48	8.58	0.16	15.98	32.47
3000.00	0.95	60.78	2999.88	-11.73	14.26	10.06	0.05	17.45	35.19
3100.00	0.97	56.72	3099.87	-13.26	15.13	11.49	0.07	19.00	37.21
3200.00	0.76	47.86	3199.86	-14.56	16.04	12.69	0.25	20.45	38.34
3300.00	0.48	52.98	3299.85	-15.47	16.74	13.52	0.29	21.52	38.92
3400.00	0.42	35.11	3399.85	-16.08	17.29	14.06	0.15	22.29	39.12
3500.00	0.31	22.96	3499.85	-16.46	17.84	14.38	0.13	22.92	38.87
3600.00	0.14	1.58	3599.85	-16.61	18.22	14.49	0.19	23.28	38.50
3700.00	0.48	276.36	3699.84	-16.23	18.38	14.08	0.49	23.16	37.45
3800.00	0.51	283.65	3799.84	-15.40	18.54	13.23	0.07	22.77	35.52
3900.00	0.71	284.85	3899.83	-14.41	18.80	12.20	0.20	22.41	32.99
4000.00	0.89	282.66	3999.82	-13.11	19.13	10.85	0.18	21.99	29.55
4100.00	0.88	284.31	4099.81	-11.66	19.49	9.35	0.03	21.61	25.62
4200.00	0.86	281.11	4199.80	-10.23	19.82	7.86	0.05	21.32	21.64
4300.00	0.87	288.22	4299.79	-8.83	20.20	6.41	0.11	21.20	17.59
4400.00	0.91	288.99	4399.78	-7.44	20.70	4.94	0.04	21.28	13.41
4500.00	0.84	285.62	4499.77	-6.05	21.16	3.48	0.09	21.44	9.34
4600.00	0.94	280.93	4599.75	-4.59	21.51	1.97	0.12	21.60	5.23
4700.00	0.96	291.19	4699.74	-3.07	21.97	0.39	0.17	21.97	1.01
4800.00	1.00	277.36	4799.73	-1.49	22.38	-1.26	0.24	22.41	356.78



Scientific
Drilling

Scientific Drilling International Survey Report

Company: CHEVRON
Field: Vacuum Abo Rees
Site: Lea County, NM
Well: An State Com #2H
Wellpath: VH - Job #32K0706534

Date: 08/09/2006 Time: 08:28:43 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,262.96Azi)
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
4900.00	1.03	280.86	4899.71	0.21	22.66	-3.01	0.07	22.86	352.44
5000.00	1.17	276.32	4999.69	2.05	22.94	-4.90	0.16	23.46	347.94
5100.00	1.13	281.72	5099.67	3.98	23.25	-6.88	0.11	24.25	343.52
5200.00	1.18	277.67	5199.65	5.91	23.59	-8.87	0.10	25.20	339.40
5300.00	1.08	284.56	5299.63	7.78	23.97	-10.80	0.17	26.29	335.74
5400.00	1.07	288.28	5399.61	9.50	24.50	-12.60	0.07	27.55	332.78
5500.00	1.27	303.60	5499.59	11.19	25.40	-14.41	0.37	29.20	330.44
5600.00	1.30	305.65	5599.57	12.86	26.68	-16.25	0.06	31.24	328.65
5700.00	1.42	300.01	5699.54	14.68	27.96	-18.24	0.18	33.38	326.87
5800.00	1.69	297.11	5799.50	16.89	29.25	-20.63	0.28	35.79	324.80
5900.00	1.85	299.83	5899.46	19.40	30.72	-23.34	0.18	38.58	322.78
6000.00	1.99	304.68	5999.40	21.98	32.51	-26.16	0.21	41.73	321.17
6100.00	1.97	321.88	6099.34	24.16	34.85	-28.65	0.59	45.11	320.57
6200.00	1.99	333.97	6199.28	25.62	37.76	-30.47	0.42	48.52	321.09
6300.00	1.99	339.61	6299.22	26.58	40.95	-31.84	0.20	51.87	322.13
6400.00	1.92	347.25	6399.16	27.15	44.21	-32.82	0.27	55.06	323.41
6500.00	1.57	344.56	6499.12	27.52	47.16	-33.55	0.36	57.88	324.57
6600.00	1.01	335.36	6599.09	27.98	49.27	-34.28	0.59	60.02	325.17
6700.00	0.40	303.92	6699.08	28.51	50.26	-34.93	0.70	61.21	325.20
6800.00	0.41	265.23	6799.08	29.13	50.43	-35.57	0.27	61.71	324.80
6900.00	0.25	12.19	6899.08	29.41	50.61	-35.88	0.54	62.04	324.66
7000.00	0.32	19.67	6999.08	29.21	51.09	-35.74	0.08	62.36	325.03
7100.00	0.52	6.80	7099.08	28.98	51.81	-35.60	0.22	62.86	325.51
7200.00	0.80	0.75	7199.07	28.78	52.95	-35.53	0.29	63.77	326.14
7300.00	0.99	350.23	7299.06	28.72	54.50	-35.67	0.25	65.13	326.79
7400.00	1.10	347.08	7399.04	28.86	56.28	-36.03	0.13	66.83	327.37
7500.00	1.12	348.94	7499.02	29.03	58.18	-36.43	0.04	68.64	327.94
7600.00	1.12	346.38	7599.00	29.21	60.09	-36.85	0.05	70.49	328.48
7700.00	1.25	347.76	7698.98	29.42	62.10	-37.31	0.13	72.45	329.00
7800.00	1.27	348.62	7798.96	29.60	64.25	-37.76	0.03	74.53	329.56
7900.00	1.61	337.56	7898.93	30.06	66.63	-38.52	0.44	76.96	329.97
8000.00	1.07	0.05	7998.90	30.32	68.86	-39.05	0.74	79.17	330.44
8055.00	0.88	349.79	8053.89	30.28	69.79	-39.12	0.47	80.01	330.73



Scientific Drilling International Survey Report

Company: CHEVRON	Date: 08/09/2006	Time: 08:49:03	Page: 1
Field: Vacuum Abo Rees	Co-ordinate(NE) Reference:	Site: Lea County, NM, Grid North	
Site: Lea County, NM	Vertical (TVD) Reference:	SITE 0.0	
Well: An State Com #2H	Section (VS) Reference:	Well (0.00N,0.00E,262.96Azi)	
Wellpath: DH - Job #32D0706524	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: 07/03/06-07/15/06	Start Date: 07/03/2006
MWD 8061'-11064'	
Company: Scientific Drilling Internatio	Engineer: Lamb/Melendez/Stahl
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
8055.00	0.88	349.79	8053.89	30.28	69.79	-39.12	0.00	80.01	330.73
8061.00	0.88	349.79	8059.89	30.28	69.88	-39.14	0.00	80.10	330.75
8113.00	11.78	245.35	8111.53	35.38	68.06	-44.05	23.13	81.07	327.08
8129.00	15.38	243.28	8127.08	38.94	66.42	-47.43	22.70	81.62	324.47
8161.00	21.41	242.88	8157.43	48.43	61.85	-56.43	18.85	83.72	317.62
8192.00	27.75	242.28	8185.61	60.50	55.90	-67.87	20.47	87.93	309.48
8223.00	34.60	240.91	8212.12	75.43	48.26	-81.96	22.21	95.12	300.49
8254.00	40.79	240.20	8236.63	92.94	38.94	-98.46	20.02	105.88	291.58
8285.00	47.02	239.64	8258.96	112.72	28.16	-117.05	20.14	120.39	283.53
8316.00	53.51	238.91	8278.76	134.53	15.98	-137.53	21.01	138.45	276.63
8347.00	59.63	237.52	8295.84	158.01	2.36	-159.50	20.09	159.52	270.85
8378.00	66.16	237.11	8309.95	182.87	-12.54	-182.71	21.10	183.14	266.07
8410.00	72.53	237.05	8321.23	209.80	-28.81	-207.84	19.91	209.82	262.11
8441.00	78.76	239.36	8328.92	237.06	-44.61	-233.35	21.35	237.58	259.18
8472.00	80.23	240.78	8334.57	265.14	-59.82	-259.77	6.54	266.56	257.03
8503.00	79.93	240.88	8339.91	293.43	-74.70	-286.43	1.02	296.01	255.38
8535.00	79.53	240.57	8345.61	322.57	-90.10	-313.89	1.57	326.57	253.98
8565.00	81.94	241.65	8350.44	350.05	-104.40	-339.82	8.78	355.49	252.92
8596.00	82.55	241.77	8354.63	378.68	-118.96	-366.86	2.00	385.67	252.03
8628.00	82.21	241.74	8358.87	408.25	-133.97	-394.80	1.07	416.92	251.26
8659.00	82.04	241.46	8363.12	436.85	-148.58	-421.82	1.05	447.22	250.60
8690.00	84.31	242.42	8366.80	465.58	-163.05	-448.98	7.94	477.67	250.04
8721.00	84.49	242.04	8369.83	494.43	-177.43	-476.28	1.35	508.25	249.57
8752.00	84.38	242.08	8372.83	523.26	-191.88	-503.53	0.38	538.86	249.14
8784.00	84.75	242.25	8375.86	553.04	-206.76	-531.70	1.27	570.49	248.75
8815.00	85.15	242.28	8378.59	581.92	-221.13	-559.04	1.29	601.18	248.42
8846.00	85.52	242.43	8381.11	610.84	-235.47	-586.41	1.29	631.91	248.12
8877.00	86.23	242.45	8383.34	639.80	-249.77	-613.82	2.29	662.69	247.86
8909.00	86.57	246.27	8385.35	670.06	-263.59	-642.60	11.96	694.58	247.70
8940.00	86.40	250.70	8387.26	700.02	-274.93	-671.38	14.27	725.49	247.73
8971.00	86.78	255.32	8389.10	730.49	-283.97	-700.97	14.93	756.30	247.95
9003.00	87.95	260.09	8390.57	762.31	-290.78	-732.19	15.33	787.82	248.34
9034.00	88.72	261.80	8391.47	793.28	-295.65	-762.79	6.05	818.08	248.81
9065.00	89.13	261.79	8392.05	824.26	-300.08	-793.47	1.32	848.31	249.28
9097.00	89.46	261.41	8392.45	856.25	-304.75	-825.12	1.57	879.60	249.73
9128.00	90.20	261.47	8392.54	887.24	-309.37	-855.78	2.39	909.98	250.12
9160.00	90.70	261.56	8392.29	919.23	-314.09	-887.43	1.59	941.37	250.51
9191.00	91.14	261.65	8391.79	950.22	-318.61	-918.09	1.45	971.80	250.86
9223.00	90.17	262.52	8391.43	982.21	-323.02	-949.78	4.07	1003.21	251.22
9254.00	89.30	267.18	8391.57	1013.18	-325.80	-980.65	15.29	1033.35	251.62
9285.00	89.40	267.45	8391.92	1044.09	-327.25	-1011.61	0.93	1063.23	252.07
9316.00	89.60	267.78	8392.19	1074.99	-328.54	-1042.58	1.24	1093.12	252.51
9348.00	89.63	268.17	8392.41	1106.87	-329.67	-1074.56	1.22	1124.00	252.94
9379.00	91.24	269.79	8392.17	1137.69	-330.23	-1105.55	7.37	1153.82	253.37
9410.00	91.24	269.74	8391.50	1168.47	-330.35	-1136.55	0.16	1183.58	253.79
9442.00	91.48	269.85	8390.74	1200.23	-330.47	-1168.54	0.82	1214.37	254.21
9473.00	94.13	270.08	8389.22	1230.96	-330.49	-1199.50	8.58	1244.19	254.60
9505.00	93.93	270.39	8386.97	1262.62	-330.35	-1231.42	1.15	1274.96	254.98
9536.00	94.24	270.72	8384.77	1293.27	-330.06	-1262.34	1.46	1304.77	255.35



Scientific Drilling International Survey Report

Company: CHEVRON
Field: Vacuum Abo Rees
Site: Lea County, NM
Well: An State Com #2H
Wellpath: DH - Job #32D0706524

Date: 08/09/2006 Time: 08:49:03 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,262.96Azi)
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
9567.00	94.54	271.37	8382.39	1323.88	-329.49	-1293.24	2.30	1334.56	255.71
9599.00	94.91	271.74	8379.76	1355.41	-328.63	-1325.12	1.63	1365.26	256.07
9630.00	92.15	270.36	8377.85	1386.04	-328.06	-1356.05	9.95	1395.17	256.40
9661.00	92.28	270.61	8376.65	1416.75	-327.80	-1387.03	0.91	1425.24	256.70
9692.00	92.42	270.78	8375.38	1447.44	-327.42	-1418.00	0.71	1455.31	257.00
9723.00	92.79	270.79	8373.97	1478.12	-327.00	-1448.97	1.19	1485.41	257.28
9755.00	91.04	267.89	8372.90	1509.90	-327.37	-1480.94	10.58	1516.69	257.54
9786.00	91.24	268.82	8372.28	1540.76	-328.26	-1511.92	3.07	1547.15	257.75
9817.00	91.71	268.87	8371.49	1571.58	-328.88	-1542.91	1.52	1577.57	257.97
9848.00	92.12	268.67	8370.45	1602.40	-329.55	-1573.88	1.47	1608.01	258.17
9880.00	92.39	268.57	8369.19	1634.22	-330.32	-1605.85	0.90	1639.47	258.38
9911.00	90.77	268.65	8368.34	1665.06	-331.07	-1636.82	5.23	1669.97	258.57
9943.00	91.07	267.95	8367.82	1696.92	-332.02	-1668.81	2.38	1701.51	258.75
9974.00	91.54	268.55	8367.12	1727.78	-332.96	-1699.78	2.46	1732.09	258.92
10005.00	92.01	268.54	8366.16	1758.62	-333.75	-1730.76	1.52	1762.64	259.09
10036.00	92.45	269.01	8364.95	1789.43	-334.41	-1761.73	2.08	1793.19	259.25
10067.00	92.89	268.94	8363.51	1820.23	-334.97	-1792.69	1.44	1823.72	259.42
10099.00	93.09	269.16	8361.84	1852.00	-335.50	-1824.64	0.93	1855.23	259.58
10130.00	92.15	268.63	8360.42	1882.81	-336.09	-1855.60	3.48	1885.79	259.73
10162.00	92.08	268.39	8359.24	1914.63	-336.92	-1887.57	0.78	1917.40	259.88
10193.00	92.52	268.29	8357.99	1945.47	-337.82	-1918.53	1.46	1948.05	260.01
10224.00	92.86	268.22	8356.54	1976.31	-338.77	-1949.48	1.12	1978.70	260.14
10256.00	93.09	267.99	8354.88	2008.13	-339.82	-1981.42	1.02	2010.35	260.27
10287.00	93.16	267.30	8353.19	2038.98	-341.09	-2012.35	2.23	2041.05	260.38
10318.00	91.68	269.00	8351.88	2069.83	-342.09	-2043.30	7.27	2071.74	260.50
10349.00	91.75	269.02	8350.95	2100.64	-342.63	-2074.29	0.23	2102.39	260.62
10380.00	90.71	269.60	8350.29	2131.44	-343.00	-2105.28	3.84	2133.03	260.75
10412.00	90.77	269.57	8349.87	2163.23	-343.23	-2137.27	0.21	2164.66	260.88
10443.00	90.97	270.15	8349.40	2194.00	-343.31	-2168.27	1.98	2195.28	261.00
10474.00	90.97	269.76	8348.88	2224.76	-343.33	-2199.26	1.26	2225.90	261.13
10505.00	90.74	270.19	8348.42	2255.53	-343.35	-2230.26	1.57	2256.53	261.25
10537.00	90.91	269.83	8347.95	2287.28	-343.34	-2262.26	1.24	2288.16	261.37
10568.00	91.21	270.33	8347.38	2318.04	-343.30	-2293.25	1.88	2318.81	261.49
10600.00	91.41	270.70	8346.65	2349.75	-343.01	-2325.24	1.31	2350.41	261.61
10631.00	91.68	271.05	8345.81	2380.45	-342.54	-2356.23	1.43	2381.00	261.73
10662.00	92.01	271.35	8344.82	2411.11	-341.89	-2387.20	1.44	2411.56	261.85
10693.00	92.72	270.29	8343.54	2441.79	-341.45	-2418.17	4.11	2442.16	261.96
10725.00	93.03	270.33	8341.93	2473.49	-341.27	-2450.13	0.98	2473.79	262.07
10757.00	93.43	269.92	8340.13	2505.19	-341.20	-2482.08	1.79	2505.42	262.17
10788.00	93.42	269.93	8338.28	2535.90	-341.24	-2513.03	0.05	2536.09	262.27
10820.00	93.03	270.34	8336.48	2567.60	-341.17	-2544.98	1.77	2567.74	262.36
10851.00	92.69	270.04	8334.93	2598.32	-341.07	-2575.94	1.46	2598.42	262.46
10882.00	92.69	270.21	8333.47	2629.04	-341.00	-2606.90	0.55	2629.11	262.55
10914.00	92.92	269.98	8331.91	2660.76	-340.94	-2638.86	1.02	2660.80	262.64
10945.00	92.72	268.22	8330.38	2691.54	-341.43	-2669.82	5.71	2691.57	262.71
10976.00	93.26	268.59	8328.77	2722.36	-342.29	-2700.77	2.11	2722.37	262.78
11008.00	93.33	268.14	8326.93	2754.16	-343.20	-2732.70	1.42	2754.17	262.84
11064.00	93.33	268.14	8323.67	2809.84	-345.02	-2788.58	0.00	2809.84	262.95

675' N 391' W



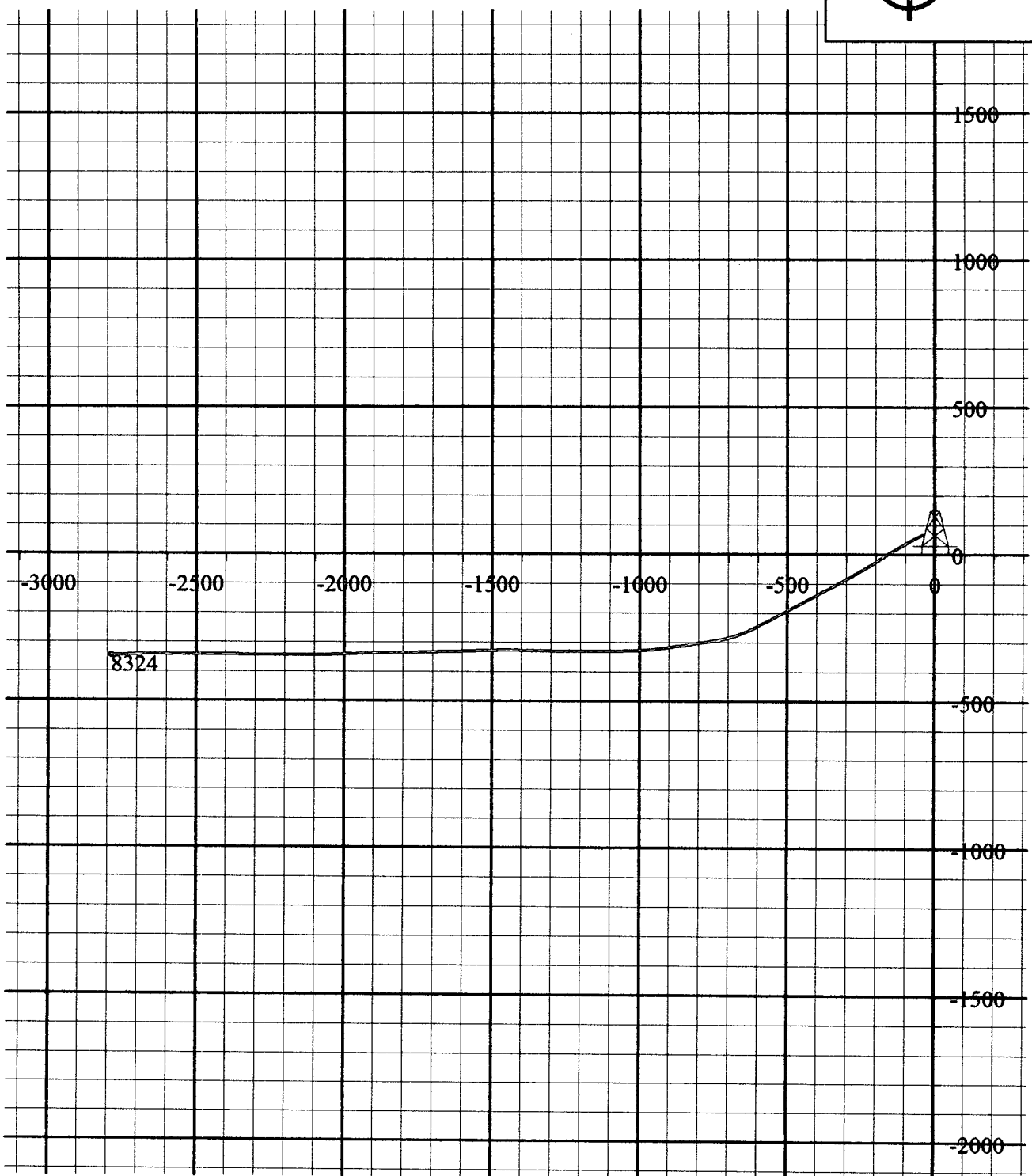
**Scientific
Drilling**

Field: Vacuum Abo Rees
Site: Lea County, NM
Well: An State Com #2H
Wellpath: DH - Job #32D0706524
Survey: 07/03/06-07/15/06

G/T/M

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

Magnetic Field
Strength: 0nT
Dip Angle: 0.00°
Date: 08/09/2006
Model: igrf2000



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

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