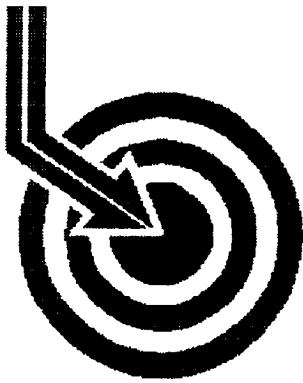




Scientific Drilling

OCCIDENTAL PERMIAN LTD.

Field: Wildcat
Site: Lea County, NM
Well: Oxy Bat Hawk State #1
Wellpath: VH - Job #32K12061038
Survey: 12/18/06

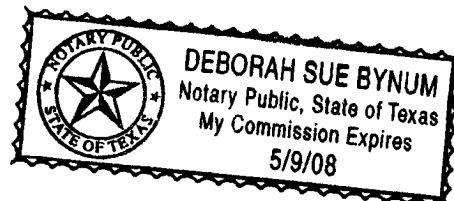
This survey is correct to the best of my knowledge
and is supported by actual field data.

.....Deborah..... Company Representative

Notorized this date 16th of January, 2007.

Deborah Sue Bynum

Notary Signature
County of Midland
State of Texas





Scientific Drilling International Survey Report

Company: OCCIDENTAL PERMIAN LTD.
Field: Wildcat
Site: Lea County, NM
Well: Oxy Bat Hawk State #1
Wellpath: VH - Job #32K12061038

Date: 01/16/2007 Time: 12:15:24 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,155.37Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: 12/18/06 Start Date: 12/18/2006
KSRG 0'-12700'
Company: Scientific Drilling Internatio Engineer: Rehders w/GeoGyro
Tool: SSK;Single Shot Kit Tied-to: From Surface

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ChD ft	ChA deg
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.05	200.75	100.00	0.03	-0.04	-0.02	0.05	0.04	200.75
200.00	0.15	211.88	200.00	0.13	-0.19	-0.10	0.10	0.22	207.43
300.00	0.08	243.50	300.00	0.21	-0.34	-0.23	0.09	0.41	214.66
400.00	0.14	281.30	400.00	0.14	-0.34	-0.41	0.09	0.54	230.41
500.00	0.34	297.11	500.00	-0.17	-0.18	-0.80	0.21	0.82	257.07
600.00	0.75	313.27	599.99	-1.01	0.40	-1.54	0.43	1.59	284.60
700.00	0.92	314.53	699.98	-2.36	1.41	-2.59	0.17	2.95	298.63
800.00	0.95	307.36	799.97	-3.84	2.48	-3.82	0.12	4.55	302.98
900.00	0.94	313.49	899.96	-5.34	3.55	-5.07	0.10	6.19	304.95
1000.00	0.93	309.47	999.94	-6.83	4.63	-6.29	0.07	7.81	306.32
1100.00	0.87	311.64	1099.93	-8.25	5.65	-7.49	0.07	9.38	307.02
1200.00	0.90	311.89	1199.92	-9.67	6.68	-8.64	0.03	10.92	307.69
1300.00	0.82	313.86	1299.91	-11.05	7.70	-9.74	0.09	12.41	308.31
1400.00	0.65	305.52	1399.90	-12.21	8.52	-10.72	0.20	13.69	308.48
1500.00	0.67	304.56	1499.89	-13.21	9.18	-11.66	0.02	14.84	308.22
1600.00	0.74	297.44	1599.89	-14.22	9.81	-12.72	0.11	16.06	307.65
1700.00	0.65	301.10	1699.88	-15.20	10.40	-13.77	0.10	17.26	307.06
1800.00	0.66	299.40	1799.87	-16.13	10.98	-14.76	0.02	18.40	306.64
1900.00	0.61	294.37	1899.87	-17.00	11.48	-15.75	0.07	19.49	306.09
2000.00	0.57	297.97	1999.86	-17.80	11.93	-16.67	0.05	20.50	305.59
2100.00	0.59	296.25	2099.85	-18.59	12.39	-17.57	0.03	21.51	305.19
2200.00	0.48	306.24	2199.85	-19.36	12.87	-18.37	0.14	22.43	305.01
2300.00	0.48	295.36	2299.85	-20.04	13.30	-19.09	0.09	23.26	304.86
2400.00	0.37	296.99	2399.84	-20.62	13.62	-19.76	0.11	24.00	304.59
2500.00	0.26	298.11	2499.84	-21.05	13.88	-20.24	0.11	24.54	304.43
2600.00	0.29	282.32	2599.84	-21.38	14.04	-20.69	0.08	25.00	304.15
2700.00	0.28	289.03	2699.84	-21.70	14.17	-21.17	0.03	25.47	303.80
2800.00	0.25	281.12	2799.84	-22.00	14.29	-21.61	0.05	25.91	303.47
2900.00	0.23	276.74	2899.84	-22.23	14.36	-22.03	0.03	26.29	303.10
3000.00	0.19	272.59	2999.84	-22.41	14.39	-22.39	0.04	26.62	302.72
3100.00	0.15	283.34	3099.84	-22.57	14.43	-22.69	0.05	26.88	302.45
3200.00	0.21	281.02	3199.84	-22.76	14.49	-22.99	0.06	27.18	302.22
3300.00	0.18	292.58	3299.84	-22.98	14.59	-23.32	0.05	27.51	302.03
3400.00	0.18	275.26	3399.84	-23.17	14.66	-23.62	0.05	27.80	301.83
3500.00	0.14	285.90	3499.84	-23.33	14.71	-23.89	0.05	28.06	301.62
3600.00	0.14	297.96	3599.83	-23.51	14.80	-24.12	0.03	28.30	301.53
3700.00	0.15	291.20	3699.83	-23.70	14.91	-24.35	0.02	28.55	301.47
3800.00	0.07	315.89	3799.83	-23.85	15.00	-24.51	0.09	28.74	301.46
3900.00	0.18	308.78	3899.83	-24.05	15.14	-24.68	0.11	28.95	301.53
4000.00	0.14	312.77	3999.83	-24.30	15.32	-24.89	0.04	29.23	301.61
4100.00	0.15	331.63	4099.83	-24.54	15.52	-25.04	0.05	29.46	301.78
4200.00	0.20	316.15	4199.83	-24.84	15.76	-25.23	0.07	29.74	301.99
4300.00	0.18	308.89	4299.83	-25.14	15.98	-25.47	0.03	30.07	302.11
4400.00	0.17	327.22	4399.83	-25.43	16.21	-25.67	0.06	30.36	302.26
4500.00	0.24	1.90	4499.83	-25.76	16.54	-25.74	0.14	30.60	302.72
4600.00	0.14	347.30	4599.83	-26.07	16.87	-25.76	0.11	30.80	303.21
4700.00	0.23	357.49	4699.83	-26.38	17.19	-25.80	0.10	31.00	303.67
4800.00	0.15	13.63	4799.83	-26.67	17.52	-25.78	0.10	31.17	304.20



Scientific Drilling International Survey Report

Company: OCCIDENTAL PERMIAN LTD.
Field: Wildcat
Site: Lea County, NM
Well: Oxy Bat Hawk State #1
Wellpath: VH - Job #32K12061038

Date: 01/16/2007 Time: 12:15:24 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,155.37Azi)
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	ChD ft	ChA deg
4900.00	0.22	354.22	4899.83	-26.95	17.84	-25.77	0.09	31.34	304.69
5000.00	0.10	325.96	4999.83	-27.22	18.10	-25.84	0.14	31.54	305.01
5100.00	0.06	163.00	5099.83	-27.25	18.12	-25.87	0.16	31.58	305.01
5200.00	0.12	151.68	5199.83	-27.10	17.98	-25.80	0.06	31.45	304.87
5300.00	0.11	147.61	5299.83	-26.90	17.81	-25.70	0.01	31.27	304.71
5400.00	0.32	152.22	5399.83	-26.52	17.48	-25.52	0.21	30.93	304.40
5500.00	0.44	149.74	5499.83	-25.86	16.90	-25.20	0.12	30.34	303.85
5600.00	0.43	147.32	5599.82	-25.11	16.25	-24.80	0.02	29.65	303.23
5700.00	0.43	144.08	5699.82	-24.37	15.63	-24.38	0.02	28.96	302.67
5800.00	0.31	160.56	5799.82	-23.73	15.07	-24.07	0.16	28.40	302.06
5900.00	0.28	185.37	5899.82	-23.25	14.57	-24.00	0.13	28.08	301.27
6000.00	0.24	216.59	5999.82	-22.94	14.16	-24.15	0.15	28.00	300.39
6100.00	0.29	222.25	6099.81	-22.74	13.81	-24.44	0.06	28.07	299.46
6200.00	0.23	216.94	6199.81	-22.54	13.46	-24.73	0.06	28.16	298.55
6300.00	0.24	229.96	6299.81	-22.39	13.16	-25.02	0.05	28.27	297.75
6400.00	0.17	275.33	6399.81	-22.41	13.04	-25.32	0.17	28.49	297.25
6500.00	0.14	270.27	6499.81	-22.54	13.06	-25.59	0.03	28.73	297.03
6600.00	0.18	270.55	6599.81	-22.65	13.06	-25.87	0.04	28.98	296.78
6700.00	0.18	284.65	6699.81	-22.82	13.10	-26.18	0.04	29.28	296.58
6800.00	0.26	286.32	6799.81	-23.07	13.20	-26.55	0.08	29.65	296.44
6900.00	0.18	261.24	6899.81	-23.26	13.24	-26.92	0.12	30.01	296.19
7000.00	0.20	265.56	6999.81	-23.36	13.21	-27.25	0.02	30.29	295.85
7100.00	0.20	277.88	7099.81	-23.52	13.22	-27.60	0.04	30.60	295.59
7200.00	0.20	245.97	7199.81	-23.61	13.17	-27.93	0.11	30.88	295.24
7300.00	0.20	254.10	7299.81	-23.64	13.05	-28.26	0.03	31.13	294.79
7400.00	0.23	258.14	7399.81	-23.71	12.96	-28.62	0.03	31.42	294.36
7500.00	0.25	249.15	7499.81	-23.77	12.84	-29.02	0.04	31.74	293.87
7600.00	0.30	205.50	7599.80	-23.62	12.53	-29.34	0.21	31.90	293.12
7700.00	0.43	188.53	7699.80	-23.13	11.92	-29.51	0.17	31.83	292.00
7800.00	0.52	184.19	7799.80	-22.42	11.10	-29.60	0.10	31.61	290.55
7900.00	0.73	176.01	7899.79	-21.43	10.01	-29.59	0.23	31.23	288.69
8000.00	0.89	170.49	7999.78	-20.08	8.61	-29.41	0.18	30.65	286.31
8100.00	1.15	165.61	8099.77	-18.35	6.87	-29.04	0.27	29.84	283.31
8200.00	1.40	162.80	8199.74	-16.15	4.73	-28.43	0.26	28.82	279.45
8300.00	1.64	157.01	8299.71	-13.51	2.25	-27.51	0.28	27.60	274.67
8400.00	1.76	155.03	8399.66	-10.54	-0.46	-26.30	0.13	26.30	268.99
8500.00	1.85	155.10	8499.61	-7.39	-3.32	-24.97	0.09	25.19	262.43
8600.00	2.14	150.81	8599.55	-3.91	-6.41	-23.38	0.33	24.24	254.66
8700.00	2.54	148.23	8699.47	0.15	-9.93	-21.30	0.41	23.50	245.02
8800.00	2.67	147.64	8799.37	4.65	-13.78	-18.89	0.13	23.38	233.90
8900.00	2.72	146.55	8899.25	9.30	-17.72	-16.34	0.07	24.10	222.67
9000.00	2.64	145.07	8999.15	13.92	-21.59	-13.71	0.11	25.58	212.41
9100.00	2.64	148.19	9099.04	18.47	-25.44	-11.18	0.14	27.79	203.72
9200.00	2.49	146.70	9198.94	22.90	-29.21	-8.77	0.16	30.50	196.71
9300.00	2.41	146.85	9298.85	27.13	-32.79	-6.43	0.08	33.41	191.09
9400.00	2.32	145.26	9398.76	31.20	-36.21	-4.12	0.11	36.44	186.50
9500.00	2.36	148.13	9498.68	35.23	-39.62	-1.88	0.12	39.67	182.72
9600.00	2.30	146.65	9598.60	39.26	-43.05	0.31	0.08	43.05	179.59
9700.00	2.15	151.02	9698.52	43.11	-46.36	2.32	0.23	46.42	177.14
9800.00	1.99	150.83	9798.46	46.71	-49.52	4.07	0.16	49.69	175.30
9900.00	1.93	150.87	9898.40	50.12	-52.51	5.74	0.06	52.82	173.76
10000.00	1.91	148.36	9998.34	53.46	-55.40	7.43	0.09	55.89	172.36



Scientific Drilling International

Survey Report

Company: OCCIDENTAL PERMIAN LTD.
 Field: Wildcat
 Site: Lea County, NM
 Well: Oxy Bat Hawk State #1
 Wellpath: VH - Job #32K12081038

Date: 01/16/2007 Time: 12:15:24 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,155.37Azi)
 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

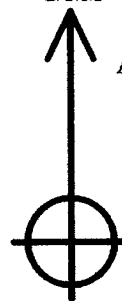
MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ChD ft	ChA deg
10100.00	1.58	148.39	10098.29	56.48	-57.99	9.03	0.33	58.69	171.15
10200.00	1.26	150.01	10198.26	58.94	-60.12	10.30	0.32	60.99	170.28
10300.00	1.15	150.37	10298.24	61.04	-61.94	11.35	0.11	62.97	169.62
10400.00	1.18	145.28	10398.22	63.05	-63.66	12.43	0.11	64.86	168.95
10500.00	1.16	144.46	10498.20	65.06	-65.33	13.60	0.03	66.73	168.24
10600.00	0.98	152.48	10598.18	66.90	-66.91	14.59	0.23	68.48	167.70
10700.00	0.63	197.99	10698.17	68.16	-68.19	14.81	0.70	69.78	167.74
10800.00	0.43	233.57	10798.17	68.64	-68.94	14.34	0.38	70.41	168.25
10900.00	0.25	226.92	10898.17	68.79	-69.31	13.88	0.18	70.69	168.68
11000.00	0.10	153.56	10998.17	68.95	-69.54	13.76	0.24	70.89	168.81
11100.00	0.38	74.37	11098.17	69.09	-69.53	14.12	0.37	70.95	168.52
11200.00	0.49	63.43	11198.16	69.12	-69.25	14.82	0.14	70.81	167.92
11300.00	0.84	72.53	11298.16	69.20	-68.83	15.90	0.36	70.65	166.99
11400.00	0.89	71.25	11398.15	69.37	-68.36	17.34	0.05	70.53	165.77
11500.00	0.88	74.58	11498.13	69.57	-67.91	18.81	0.05	70.47	164.52
11600.00	0.79	72.44	11598.12	69.78	-67.50	20.21	0.10	70.46	163.33
11700.00	0.64	68.52	11698.12	69.90	-67.09	21.39	0.16	70.41	162.32
11800.00	0.63	84.04	11798.11	70.10	-66.82	22.45	0.17	70.50	161.43
11900.00	0.58	78.74	11898.10	70.40	-66.67	23.50	0.07	70.69	160.59
12000.00	0.68	69.55	11998.10	70.56	-66.36	24.55	0.14	70.76	159.70
12100.00	0.62	74.03	12098.09	70.68	-66.01	25.62	0.08	70.81	158.78
12200.00	0.70	68.70	12198.08	70.80	-65.64	26.71	0.10	70.86	157.85
12300.00	0.50	51.42	12298.08	70.73	-65.14	27.62	0.27	70.76	157.02
12400.00	0.35	90.33	12398.08	70.75	-64.87	28.27	0.32	70.76	156.45
12500.00	0.30	79.98	12498.07	70.95	-64.83	28.83	0.08	70.95	156.02
12600.00	0.29	61.39	12598.07	70.99	-64.66	29.31	0.10	71.00	155.61
12700.00	0.31	345.25	12698.07	70.71	-64.28	29.47	0.37	70.71	155.37



Scientific
Drilling

Field: Wildcat
Site: Lea County, NM
Well: Oxy Bat Hawk State #1
Wellpath: VH - Job #32K12061038
Survey: 12/18/06

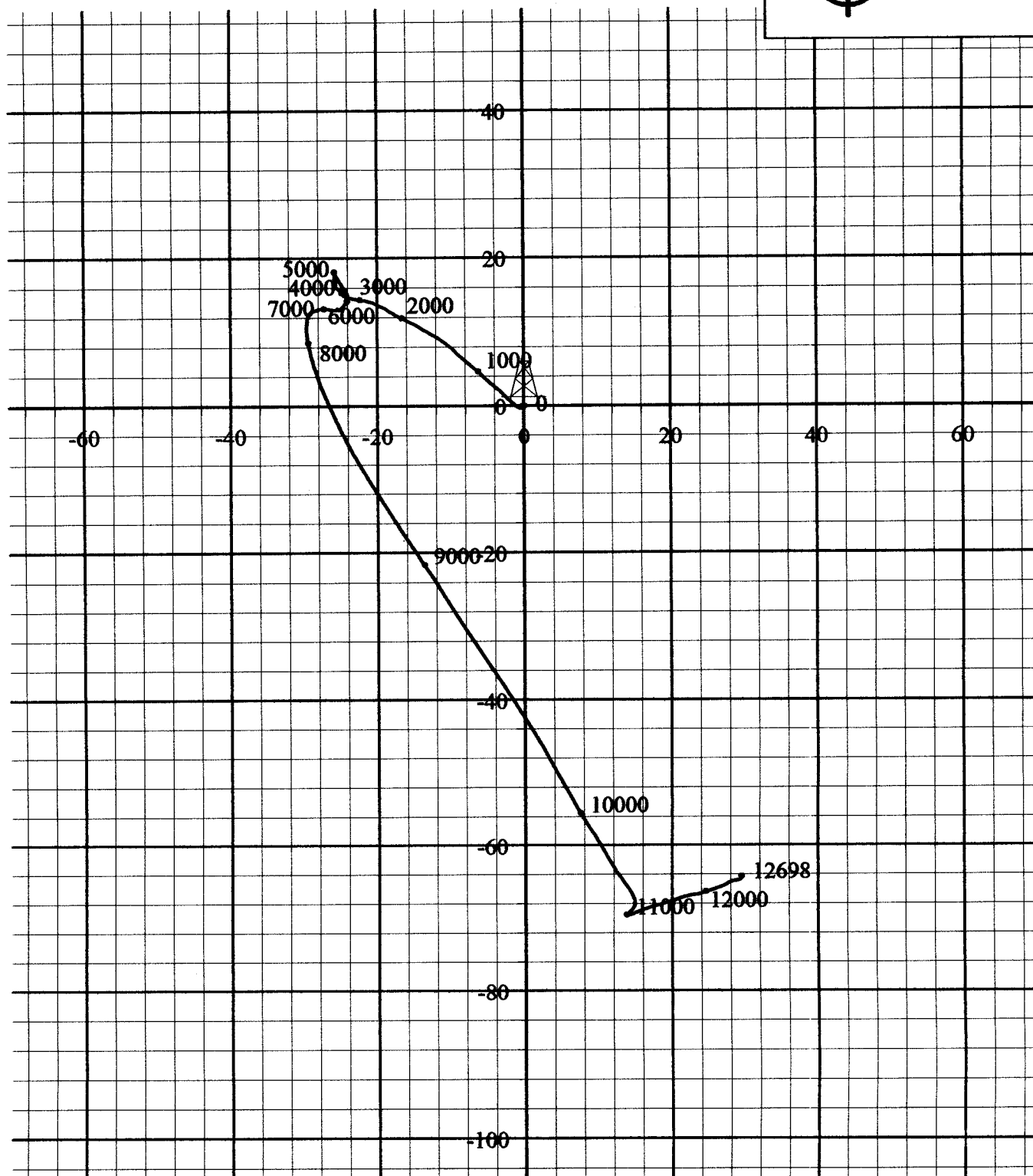
G/T/M



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

Magnetic Field
Strength: 0nT
Dip Angle: 0.00°
Date: 01/16/2007
Model: WMM_95

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



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