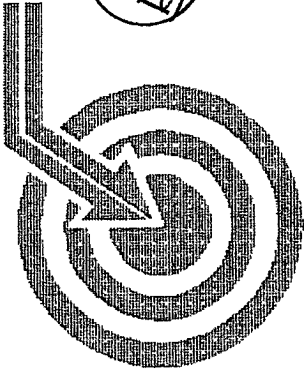


30.015.35907



Scientific Drilling

YATES PETROLEUM

Field: Wildcat
Site: Eddy County, NM
Well: Knoll AOK Federal #3H
Wellpath: VH - Job #32K0209072
Survey: 02/23/09

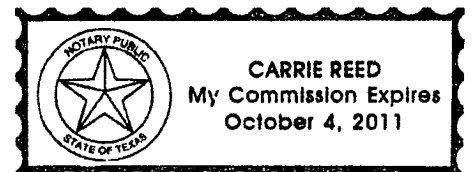
This survey is correct to the best of my knowledge
and is supported by actual field data.

.....Richard..... Company Representative

Notorized this date 23rd of March, 2009.

Carrie Reed

Notary Signature
County of Midland
State of Texas





Scientific
Drilling

Scientific Drilling International Survey Report

Company: YATES PETROLEUM	Date: 03/23/2009	Time: 12:39:22	Page: 1
Field: Wildcat	Co-ordinate(NE) Reference:	Site: Eddy County, NM, Grid North	
Site: Eddy County, NM	Vertical (TVD) Reference:	SITE: 0.0	
Well: Knoll AOK Federal #3H	Section (VS) Reference:	Well: (0.00N;0.00E;271.29Azi)	
Wellpath: VH - Job #32K0209072	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Survey: 02/23/09	Start Date: 02/23/2009
Company: Scientific Drilling Internatio	Engineer: Madrid w/P&M
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
0.00	0.00	359.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.49	93.33	100.00	-0.43	-0.02	0.43	0.49	0.43	93.33
200.00	1.17	134.98	199.99	-1.59	-0.77	1.58	0.87	1.75	116.08
300.00	2.03	145.66	299.95	-3.36	-2.96	3.30	0.91	4.43	131.87
400.00	2.36	137.75	399.88	-5.81	-5.94	5.68	0.45	8.22	136.29
500.00	2.37	142.95	499.79	-8.51	-9.12	8.31	0.21	12.34	137.65
600.00	2.67	143.99	599.69	-11.21	-12.65	10.93	0.30	16.72	139.18
700.00	2.59	138.96	699.59	-14.14	-16.24	13.78	0.24	21.30	139.68
800.00	2.50	138.61	799.49	-17.14	-19.58	16.70	0.09	25.74	139.53
900.00	2.62	140.73	899.39	-20.11	-22.98	19.59	0.15	30.20	139.55
1000.00	2.85	144.54	999.28	-23.08	-26.78	22.48	0.29	34.97	139.99
1100.00	2.90	152.91	1099.15	-25.77	-31.06	25.08	0.42	39.92	141.08
1200.00	2.90	165.31	1199.02	-27.67	-35.76	26.87	0.63	44.73	143.08
1300.00	2.89	177.85	1298.90	-28.52	-40.72	27.61	0.63	49.20	145.87
1400.00	3.20	189.20	1398.76	-28.28	-46.00	27.25	0.68	53.46	149.35
1500.00	3.57	191.37	1498.58	-27.35	-51.80	26.19	0.39	58.05	153.18
1600.00	3.19	190.88	1598.41	-26.35	-57.59	25.06	0.38	62.80	156.49
1700.00	2.51	189.25	1698.28	-25.58	-62.48	24.18	0.68	67.00	158.85
1800.00	2.06	187.50	1798.20	-25.08	-66.42	23.59	0.46	70.49	160.45
1900.00	1.62	192.70	1898.15	-24.61	-69.59	23.05	0.47	73.30	161.68
2000.00	1.23	194.14	1998.12	-24.09	-72.01	22.47	0.39	75.43	162.67
2100.00	1.02	183.49	2098.10	-23.82	-73.93	22.16	0.30	77.18	163.32
2200.00	0.83	168.16	2198.09	-23.95	-75.53	22.25	0.31	78.74	163.59
2300.00	0.71	163.45	2298.08	-24.30	-76.83	22.58	0.14	80.08	163.63
2400.00	1.10	148.02	2398.07	-25.02	-78.24	23.26	0.46	81.63	163.44
2500.00	1.44	145.11	2498.04	-26.29	-80.09	24.49	0.35	83.75	163.00
2600.00	1.36	147.25	2598.01	-27.69	-82.12	25.85	0.10	86.09	162.53
2700.00	1.48	160.23	2697.98	-28.82	-84.33	26.93	0.34	88.52	162.29
2800.00	1.52	165.14	2797.95	-29.65	-86.83	27.70	0.13	91.14	162.30
2900.00	1.65	166.41	2897.91	-30.39	-89.51	28.38	0.13	93.90	162.41
3000.00	1.51	164.27	2997.87	-31.15	-92.18	29.08	0.15	96.65	162.49
3100.00	0.72	162.71	3097.85	-31.73	-94.04	29.62	0.79	98.60	162.52
3200.00	0.73	158.14	3197.84	-32.18	-95.24	30.05	0.06	99.86	162.49
3300.00	0.63	164.08	3297.84	-32.60	-96.36	30.43	0.12	101.05	162.47
3400.00	0.65	158.42	3397.83	-32.98	-97.41	30.79	0.07	102.16	162.46
3500.00	0.59	165.68	3497.82	-33.34	-98.44	31.13	0.10	103.24	162.45
3600.00	0.51	170.88	3597.82	-33.56	-99.38	31.33	0.09	104.20	162.50
3700.00	0.56	174.94	3697.82	-33.69	-100.30	31.44	0.06	105.11	162.60
3800.00	0.49	177.41	3797.81	-33.77	-101.22	31.50	0.07	106.01	162.71
3900.00	0.53	173.60	3897.81	-33.87	-102.10	31.57	0.05	106.87	162.82
4000.00	0.49	179.41	3997.80	-33.94	-102.99	31.63	0.07	107.74	162.93
4100.00	0.50	184.44	4097.80	-33.93	-103.85	31.60	0.04	108.55	163.08
4200.00	0.44	188.58	4197.80	-33.86	-104.67	31.51	0.07	109.31	163.25
4300.00	0.53	189.39	4297.79	-33.74	-105.50	31.38	0.09	110.07	163.44
4400.00	0.48	191.28	4397.79	-33.61	-106.37	31.22	0.05	110.86	163.64
4500.00	0.40	196.62	4497.79	-33.44	-107.12	31.04	0.09	111.52	163.84
4600.00	0.44	194.16	4597.78	-33.26	-107.82	30.84	0.04	112.15	164.04
4700.00	0.44	197.60	4697.78	-33.07	-108.56	30.63	0.03	112.80	164.24
4800.00	0.49	207.25	4797.78	-32.78	-109.31	30.32	0.09	113.43	164.50



Scientific
Drilling

Scientific Drilling International Survey Report

Company: YATES PETROLEUM
Field: Wildcat
Site: Eddy County, NM
Well: Knoll AOK Federal #3H
Wellpath: VH - Job #32K0209072

Date: 03/23/2009 Time: 12:39:22 Page: 2
Co-ordinate(NE) Reference: Site: Eddy County, NM; Grid: North
Vertical (TVD) Reference: SITE: 0.0
Section (VS) Reference: Well (0.00N,0.00E,271.29Azi)
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	0.46	214.48	4897.77	-32.37	-110.02	29.90	0.07	114.01	164.80
5000.00	0.49	201.38	4997.77	-32.00	-110.75	29.52	0.11	114.61	165.08
5100.00	0.50	206.98	5097.77	-31.67	-111.53	29.16	0.05	115.28	165.35
5200.00	0.52	223.98	5197.76	-31.17	-112.25	28.65	0.15	115.85	165.68
5300.00	0.60	231.15	5297.76	-30.46	-112.90	27.93	0.11	116.31	166.11
5400.00	0.58	226.28	5397.75	-29.70	-113.58	27.15	0.05	116.78	166.56
5500.00	0.61	222.62	5497.75	-28.99	-114.32	26.43	0.05	117.34	166.98
5600.00	0.80	225.66	5597.74	-28.15	-115.20	25.57	0.19	118.01	167.49
5700.00	0.77	227.90	5697.73	-27.18	-116.14	24.57	0.04	118.71	168.06
5800.00	0.73	224.41	5797.72	-26.25	-117.05	23.62	0.06	119.41	168.59
5900.00	0.76	223.47	5897.71	-25.37	-117.98	22.72	0.03	120.15	169.10
6000.00	0.85	222.68	5997.70	-24.44	-119.01	21.76	0.09	120.98	169.64
6100.00	0.97	222.78	6097.69	-23.39	-120.18	20.69	0.12	121.94	170.23
6200.00	0.95	225.42	6197.68	-22.25	-121.38	19.52	0.05	122.94	170.86
6300.00	0.93	226.32	6297.66	-21.10	-122.52	18.34	0.02	123.89	171.49
6400.00	0.98	228.46	6397.65	-19.90	-123.65	17.12	0.06	124.83	172.12
6500.00	1.05	227.84	6497.63	-18.60	-124.83	15.80	0.07	125.83	172.79
6600.00	0.98	226.89	6597.62	-17.33	-126.03	14.49	0.07	126.86	173.44
6700.00	0.97	225.52	6697.60	-16.13	-127.21	13.27	0.03	127.90	174.05
6800.00	0.97	228.95	6797.59	-14.91	-128.36	12.02	0.06	128.92	174.65
6900.00	0.92	219.29	6897.58	-13.79	-129.54	10.88	0.17	129.99	175.20
7000.00	0.94	219.39	6997.56	-12.79	-130.79	9.85	0.02	131.16	175.69
7100.00	1.21	224.55	7097.54	-11.56	-132.18	8.59	0.29	132.46	176.28
7200.00	1.54	223.05	7197.52	-9.94	-133.91	6.93	0.33	134.09	177.04
7300.00	2.15	214.30	7297.46	-8.02	-136.44	4.95	0.67	136.53	177.92
7400.00	2.26	210.02	7397.39	-6.05	-139.70	2.91	0.20	139.73	178.81
7435.00	2.21	213.31	7432.36	-5.37	-140.86	2.19	0.39	140.88	179.11



Scientific
Drilling

Field: Wildcat
Site: Eddy County, NM
Well: Knoll AOK Federal #3H
Wellpath: VH - Job #32K0209072
Survey: 02/23/09



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

Magnetic Field
Strength: 0nT
Dip Angle: 0.00°
Date: 03/23/2009
Model: Wmm_95

West(-)/East(+) [20ft/in]

South(-)/North(+) [20ft/in]

