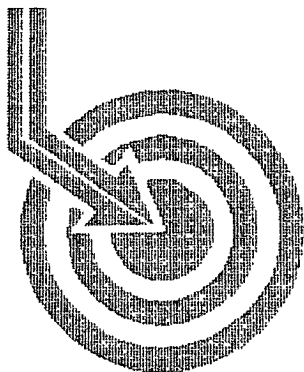


30-015-36404



Scientific Drilling

YATES PETROLEUM

Field: Wildcat
Site: Eddy County, NM
Well: Cottonwood K1 Federal Com #4H
Wellpath: VH - Job #32K1008813
Survey: 10/14/08

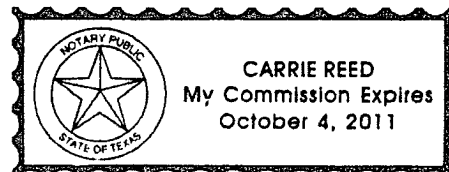
This survey is correct to the best of my knowledge
and is supported by actual field data.

.....*R. Wharton*..... Company Representative

Notorized this date 30th of October, 2008.

Carrie Reed

Notary Signature
County of Midland
State of Texas





Scientific Drilling International Survey Report

Company: YATES PETROLEUM	Date: 10/30/2008	Time: 08:20:59	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: Cottonwood K1 Federal Com #4H	Section (VS) Reference:	Well (0.00N, 0.00E, 270.03Azi)	
Wellpath: VH - Job #32K1008813	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Survey: 10/14/08 KSRG 0'-4970'	Start Date: 10/14/2008
Company: Scientific Drilling Internatio	Engineer: Madrid w/GeoGyro
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	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.35	350.24	100.00	0.05	0.30	-0.05	0.35	0.31	350.24
200.00	0.53	357.92	200.00	0.12	1.06	-0.12	0.19	1.07	353.55
300.00	1.02	351.93	299.99	0.26	2.41	-0.26	0.50	2.42	353.79
400.00	1.03	35.70	399.97	-0.14	4.02	0.14	0.76	4.02	1.96
500.00	1.37	47.96	499.95	-1.55	5.55	1.55	0.42	5.76	15.60
600.00	1.20	49.96	599.93	-3.24	7.02	3.24	0.18	7.73	24.76
700.00	1.30	49.97	699.90	-4.91	8.43	4.91	0.10	9.75	30.23
800.00	1.22	54.34	799.88	-6.64	9.78	6.64	0.12	11.82	34.19
900.00	1.18	54.51	899.86	-8.34	11.00	8.35	0.04	13.80	37.20
1000.00	0.79	49.92	999.84	-9.71	12.04	9.71	0.40	15.47	38.90
1100.00	0.66	49.23	1099.83	-10.67	12.86	10.68	0.13	16.71	39.70
1200.00	0.71	44.92	1199.83	-11.54	13.67	11.55	0.07	17.90	40.19
1300.00	0.75	46.90	1299.82	-12.46	14.56	12.46	0.05	19.17	40.57
1400.00	0.50	44.54	1399.81	-13.24	15.32	13.25	0.25	20.25	40.86
1500.00	0.38	40.39	1499.81	-13.76	15.88	13.77	0.12	21.02	40.93
1600.00	0.26	27.62	1599.81	-14.08	16.33	14.09	0.14	21.57	40.78
1700.00	0.25	27.76	1699.81	-14.29	16.73	14.30	0.01	22.00	40.52
1800.00	0.35	15.04	1799.80	-14.47	17.22	14.48	0.12	22.49	40.06
1900.00	0.54	359.25	1899.80	-14.54	17.98	14.55	0.22	23.13	38.98
2000.00	0.54	354.77	1999.80	-14.49	18.92	14.50	0.04	23.84	37.47
2100.00	0.54	349.00	2099.79	-14.36	19.85	14.37	0.05	24.51	35.89
2200.00	0.56	338.48	2199.79	-14.09	20.77	14.10	0.10	25.10	34.17
2300.00	0.62	346.95	2299.78	-13.79	21.75	13.80	0.11	25.76	32.39
2400.00	0.60	341.21	2399.78	-13.50	22.78	13.51	0.06	26.48	30.67
2500.00	0.56	336.56	2499.77	-13.13	23.72	13.14	0.06	27.12	28.99
2600.00	0.63	332.73	2599.77	-12.69	24.66	12.70	0.08	27.73	27.25
2700.00	0.63	324.99	2699.76	-12.12	25.60	12.13	0.09	28.32	25.36
2800.00	0.58	330.72	2799.75	-11.55	26.49	11.57	0.08	28.90	23.59
2900.00	0.62	323.65	2899.75	-10.99	27.36	11.00	0.08	29.49	21.90
3000.00	0.57	334.66	2999.74	-10.45	28.25	10.47	0.12	30.13	20.33
3100.00	0.68	352.72	3099.74	-10.16	29.29	10.18	0.22	31.01	19.16
3200.00	0.66	0.88	3199.73	-10.10	30.45	10.11	0.10	32.09	18.37
3300.00	0.70	5.72	3299.72	-10.16	31.64	10.18	0.07	33.23	17.84
3400.00	0.71	14.84	3399.72	-10.38	32.84	10.40	0.11	34.45	17.57
3500.00	0.73	22.76	3499.71	-10.79	34.03	10.81	0.10	35.70	17.62
3600.00	0.96	32.82	3599.70	-11.49	35.32	11.51	0.27	37.15	18.04
3700.00	0.85	40.69	3699.69	-12.42	36.59	12.44	0.17	38.65	18.78
3800.00	0.91	43.61	3799.67	-13.46	37.72	13.48	0.07	40.06	19.66
3900.00	0.91	45.35	3899.66	-14.57	38.86	14.59	0.03	41.51	20.58
4000.00	0.94	33.50	3999.65	-15.58	40.10	15.61	0.19	43.03	21.26
4100.00	0.96	37.58	4099.63	-16.55	41.45	16.57	0.07	44.64	21.79
4200.00	1.12	46.69	4199.62	-17.77	42.78	17.79	0.23	46.33	22.58
4300.00	2.06	37.30	4299.58	-19.57	44.88	19.59	0.97	48.97	23.58
4400.00	1.20	56.07	4399.54	-21.53	46.90	21.55	1.00	51.61	24.68
4500.00	1.32	45.76	4499.51	-23.22	48.28	23.24	0.26	53.59	25.71
4600.00	1.08	51.86	4599.49	-24.78	49.67	24.81	0.27	55.52	26.54
4700.00	1.06	52.03	4699.47	-26.25	50.82	26.28	0.02	57.21	27.34
4800.00	0.90	57.05	4799.46	-27.64	51.82	27.67	0.18	58.74	28.10



Scientific
Drilling

Scientific Drilling International

Survey Report

Company:	YATES PETROLEUM	Date:	10/30/2008	Time:	08:20:59	Page:	2
Field:	Wildcat	Co-ordinate(NE) Reference:	Site: Eddy County, NM, Grid North				
Site:	Eddy County, NM	Vertical (TVD) Reference:	SITE 0.0				
Well:	Cottonwood K1 Federal Com #4H	Section (VS) Reference:	Well (0.00N,0.00E,270.03Azi)				
Wellpath:	VH Job #32K1008813	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	0.95	50.39	4899.45	-28.94	52.77	28.97	0.12	60.20	28.76
4970.00	0.65	64.32	4969.44	-29.74	53.31	29.77	0.51	61.06	29.18



Scientific
Drilling

Field: Wildcat

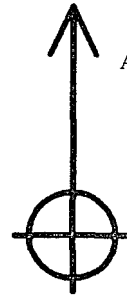
Site: Eddy County, NM

Well: Cottonwood K1 Federal Com #4H

Wellpath: VH - Job #32K1008813

Survey: 10/14/08

G/T/M



Azimuths to Grid North

True North: 0.00°

Magnetic North: 0.00°

Magnetic Field

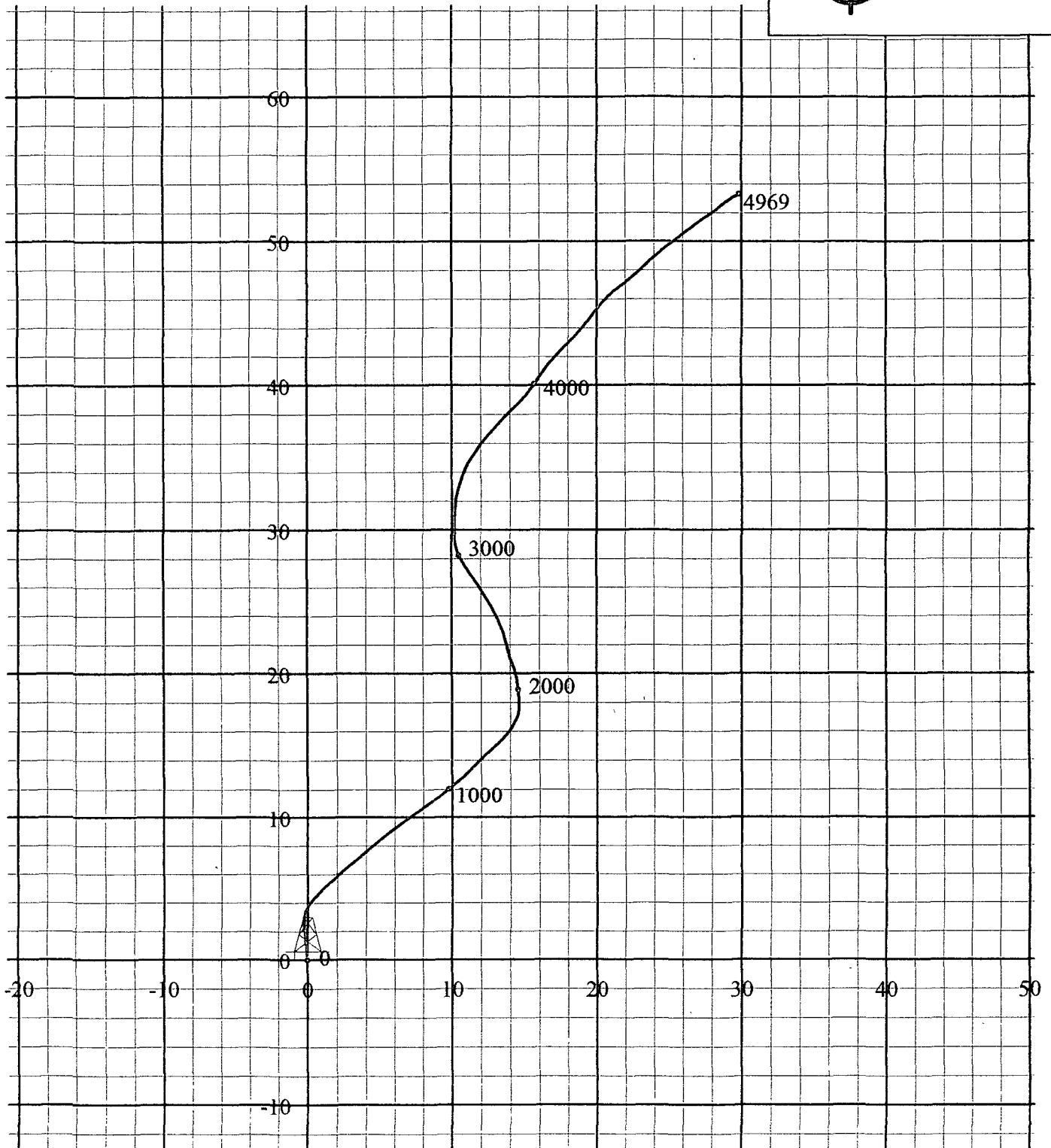
Strength: 0nT

Dip Angle: 0.00°

Date: 10/30/2008

Model: Wmm_95

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



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