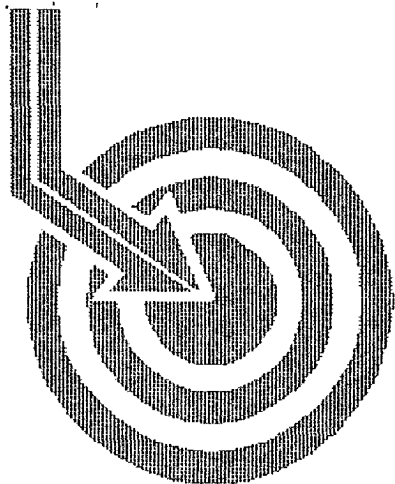




Scientific Drilling

30-015-37329

DEVON ENERGY

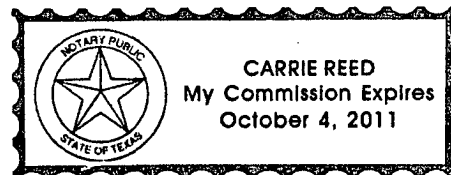
Field: Wolfcamp
Site: Eddy County, NM
Well: Mark Twain Federal Com #4H
Wellpath: VH - Job #32K0610473
Survey: 06/25/10

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

K. Wharton
Company Representative

Notarized this date 20th of July, 2010.

Carrie Reed
Notary Signature
County of Midland
State of Texas





Scientific
Drilling

Scientific Drilling International, Inc.

Survey Report

Company: DEVON ENERGY	Date: 6/30/2010	Time: 10:26:20	Page: 1
Field: Wolfcamp	Co-ordinate(NE) Reference:	Site: Eddy County, NM, Grid North	
Site: Eddy County, NM	Vertical (TVD) Reference:	SITE 0.0	
Well: Mark Twain Federal Com #4H	Section (VS) Reference:	Well (0.00N,0.00E,90.82Azi)	
Wellpath: VH - Job #32K0610473	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: 06/25/10	Start Date: 6/25/2010
Company: KSRG 0'-6070'	Engineer: Madrid/Renteria
Tool: Scientific Drilling Internatio	Tied-to: From Surface
Keeper, Keeper Gyro	

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	359.93	0.0	0.0	0.0	0.0	0.00	0.0	0.00
100.0	0.19	138.17	100.0	0.1	-0.1	0.1	0.19	0.2	138.17
200.0	0.62	181.74	200.0	0.2	-0.8	0.2	0.50	0.8	165.43
300.0	0.61	183.28	300.0	0.2	-1.9	0.2	0.02	1.9	175.15
400.0	0.31	189.04	400.0	0.1	-2.7	0.1	0.30	2.7	178.17
500.0	0.16	185.86	500.0	0.1	-3.1	0.0	0.15	3.1	179.47
600.0	0.26	200.73	600.0	0.0	-3.4	-0.1	0.11	3.4	181.11
700.0	0.32	193.94	700.0	-0.2	-3.9	-0.2	0.07	3.9	183.14
800.0	0.36	192.88	800.0	-0.3	-4.5	-0.4	0.04	4.5	184.49
900.0	0.32	194.67	900.0	-0.4	-5.1	-0.5	0.04	5.1	185.56
1000.0	0.43	195.33	1000.0	-0.6	-5.7	-0.7	0.11	5.7	186.64
1100.0	0.33	203.92	1100.0	-0.8	-6.3	-0.9	0.11	6.4	187.92
1200.0	0.38	209.76	1200.0	-1.1	-6.9	-1.2	0.06	7.0	189.59
1300.0	0.34	208.56	1300.0	-1.4	-7.4	-1.5	0.04	7.6	191.19
1400.0	0.40	204.57	1400.0	-1.6	-8.0	-1.8	0.07	8.2	192.38
1500.0	0.43	205.66	1500.0	-1.9	-8.6	-2.1	0.03	8.9	193.41
1600.0	0.31	200.03	1600.0	-2.2	-9.2	-2.3	0.13	9.5	194.07
1700.0	0.20	187.74	1700.0	-2.3	-9.7	-2.4	0.12	10.0	194.13
1800.0	0.24	191.52	1800.0	-2.4	-10.0	-2.5	0.04	10.3	193.97
1900.0	0.23	186.02	1900.0	-2.4	-10.4	-2.6	0.02	10.8	193.77
2000.0	0.26	174.14	2000.0	-2.4	-10.9	-2.6	0.06	11.2	193.24
2100.0	0.21	174.57	2100.0	-2.4	-11.3	-2.5	0.05	11.6	192.58
2200.0	0.21	162.61	2200.0	-2.3	-11.6	-2.4	0.04	11.9	191.87
2300.0	0.23	175.20	2300.0	-2.2	-12.0	-2.4	0.05	12.2	191.18
2400.0	0.26	195.95	2400.0	-2.2	-12.4	-2.4	0.09	12.7	191.01
2500.0	0.24	189.47	2500.0	-2.3	-12.9	-2.5	0.03	13.1	191.07
2600.0	0.22	186.86	2600.0	-2.4	-13.3	-2.6	0.02	13.5	190.99
2700.0	0.21	171.83	2700.0	-2.4	-13.6	-2.6	0.06	13.9	190.68
2800.0	0.28	141.13	2800.0	-2.2	-14.0	-2.4	0.15	14.2	189.69
2900.0	0.25	161.30	2900.0	-2.0	-14.4	-2.2	0.10	14.6	188.56
3000.0	0.28	166.39	3000.0	-1.8	-14.8	-2.0	0.04	15.0	187.83
3100.0	0.32	152.37	3100.0	-1.6	-15.3	-1.9	0.08	15.4	186.90
3200.0	0.29	146.29	3200.0	-1.4	-15.8	-1.6	0.04	15.9	185.73
3300.0	0.56	161.79	3299.9	-1.1	-16.5	-1.3	0.29	16.5	184.48
3400.0	0.51	164.78	3399.9	-0.8	-17.3	-1.0	0.06	17.4	183.37
3500.0	0.58	171.06	3499.9	-0.6	-18.3	-0.8	0.09	18.3	182.58
3600.0	0.62	175.93	3599.9	-0.4	-19.3	-0.7	0.06	19.3	182.10
3700.0	0.63	187.51	3699.9	-0.4	-20.4	-0.7	0.13	20.4	182.08
3800.0	0.55	192.36	3799.9	-0.6	-21.4	-0.9	0.09	21.4	182.45
3900.0	0.52	204.22	3899.9	-0.9	-22.3	-1.2	0.11	22.3	183.09
4000.0	0.59	199.72	3999.9	-1.2	-23.2	-1.6	0.08	23.2	183.86
4100.0	0.61	190.63	4099.9	-1.5	-24.2	-1.8	0.10	24.3	184.34
4200.0	0.54	185.69	4199.9	-1.6	-25.2	-2.0	0.09	25.3	184.50
4300.0	0.48	171.39	4299.9	-1.6	-26.1	-2.0	0.14	26.2	184.31
4400.0	0.57	177.97	4399.9	-1.5	-27.0	-1.9	0.11	27.1	184.00
4500.0	0.52	166.27	4499.9	-1.4	-27.9	-1.8	0.12	28.0	183.61
4600.0	0.59	163.40	4599.9	-1.1	-28.9	-1.5	0.08	28.9	182.99
4700.0	0.37	180.20	4699.9	-0.9	-29.7	-1.4	0.26	29.7	182.62
4800.0	0.29	178.81	4799.9	-0.9	-30.3	-1.4	0.08	30.3	182.56



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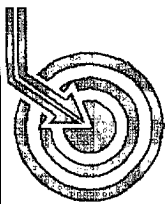
Survey Report

Company: DEVON ENERGY
Field: Wolfcamp
Site: Eddy County, NM
Well: Mark Twain Federal Com #4H
Wellpath: VH - Job #32K0610473

Date: 6/30/2010 Time: 10:26:20 Page: 2
Co-ordinate(N/E) Reference: Site: Eddy County, NM, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,90.82Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

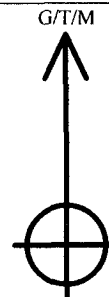
Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
4900.0	0.35	185.43	4899.9	-0.9	-30.8	-1.4	0.07	30.8	182.56
5000.0	0.32	193.16	4999.9	-1.0	-31.4	-1.5	0.05	31.4	182.68
5100.0	0.22	164.01	5099.9	-1.0	-31.8	-1.5	0.17	31.9	182.66
5200.0	0.31	152.19	5199.9	-0.8	-32.3	-1.3	0.10	32.3	182.31
5300.0	0.39	144.92	5299.9	-0.5	-32.8	-1.0	0.09	32.8	181.71
5400.0	0.50	132.63	5399.9	0.0	-33.4	-0.5	0.15	33.4	180.80
5500.0	0.68	127.04	5499.9	0.8	-34.0	0.3	0.19	34.0	179.44
5600.0	0.65	129.53	5599.9	1.7	-34.7	1.2	0.04	34.8	177.95
5700.0	0.69	125.86	5699.9	2.7	-35.4	2.2	0.06	35.5	176.50
5800.0	0.90	103.06	5799.8	3.9	-36.0	3.4	0.38	36.1	174.57
5900.0	1.11	99.69	5899.8	5.7	-36.3	5.1	0.22	36.7	171.94
6000.0	1.18	95.83	5999.8	7.6	-36.6	7.1	0.10	37.3	168.99
6070.0	1.48	97.56	6069.8	9.3	-36.8	8.7	0.43	37.8	166.64



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Field: **Wolfcamp**
Site: **Eddy County, NM**
Well: **Mark Twain Federal Com #4H**
Survey: **06/25/10**



Azimuths to Grid North
True North: 0.00°
Magnetic North: 0.00°
Magnetic Field
Dip Angle: 0.00°
Date: 6/29/2010
Model: igrf2000

West(-)/East(+) [5ft/in]

South(-)/North(+) [5ft/in]

