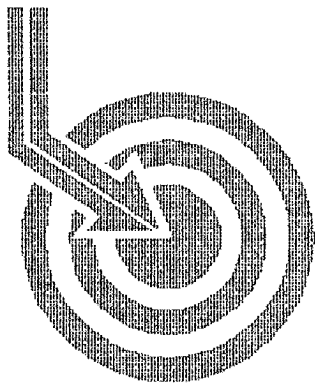




Scientific Drilling

DEVON ENERGY

Field: Quahada Ridge, SE
Site: Eddy County, NM
Well: Apache 13 Fed #6
Wellpath: VH - Job #32K0305164
Survey: 03/02/05

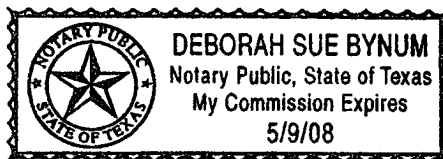
This survey is correct to the best of my knowledge
and is supported by actual field data.

[Signature] Company Representative

Notorized this date 9th of May, 2005.

Deborah Sue Bynum
Notary Signature

County of Midland
State of Texas





Scientific
Drilling

Scientific Drilling International

Survey Report

Company: DEVON ENERGY
Field: Quahada Ridge, SE
Site: Eddy County, NM
Well: Apache 13 Fed #6
Wellpath: VH - Job #32K0305164

Date: 5/9/2005 Time: 11:28:51 Page: 1
Co-ordinate(NE) Reference: Site: Eddy County, NM, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,281.00Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: 03/02/05
KSRG 0'-3880'

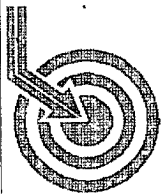
Start Date: 3/2/2005

Company: Scientific Drilling Internatio
Tool: Keeper;Keeper Gyro

Engineer: Foster w/P&M
Tied-to: From Surface

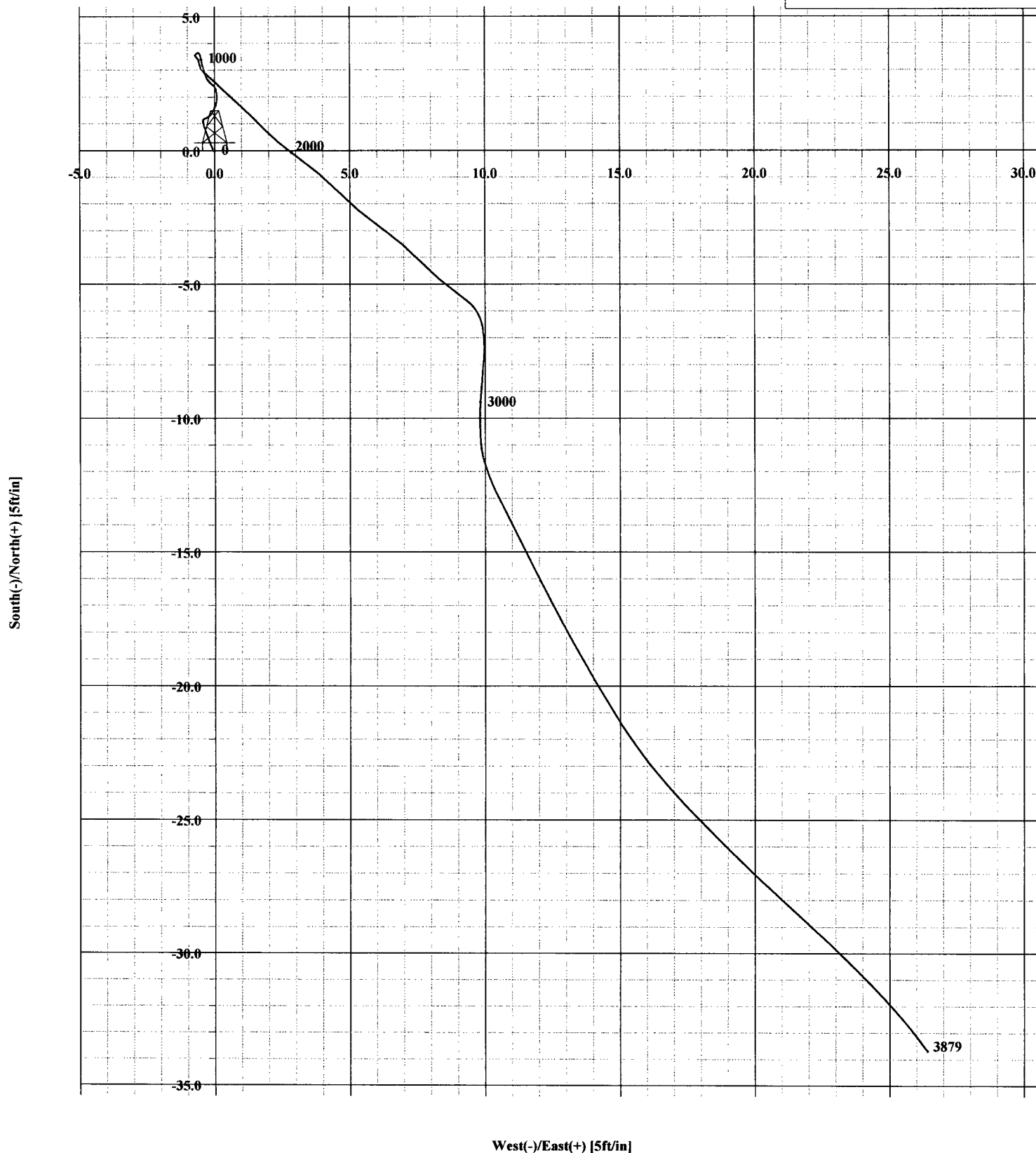
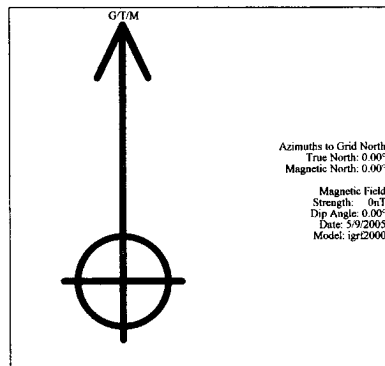
Survey

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	359.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.03	259.52	100.00	0.02	0.00	-0.03	0.03	0.03	259.52
200.00	0.73	339.37	200.00	0.38	0.59	-0.28	0.73	0.65	334.81
300.00	0.15	87.79	299.99	0.59	1.19	-0.37	0.79	1.24	342.72
400.00	0.32	35.10	399.99	0.35	1.42	-0.08	0.26	1.42	356.85
500.00	0.30	0.41	499.99	0.28	1.91	0.08	0.19	1.91	2.52
600.00	0.15	342.09	599.99	0.39	2.30	0.05	0.16	2.30	1.14
700.00	0.11	293.04	699.99	0.55	2.46	-0.08	0.11	2.46	358.07
800.00	0.24	329.11	799.99	0.78	2.68	-0.28	0.16	2.69	354.06
900.00	0.22	347.90	899.99	1.00	3.04	-0.43	0.08	3.07	352.03
1000.00	0.19	350.61	999.99	1.13	3.40	-0.49	0.03	3.43	351.73
1100.00	0.08	325.74	1099.99	1.24	3.62	-0.56	0.12	3.66	351.20
1200.00	0.08	227.50	1199.99	1.33	3.63	-0.65	0.12	3.69	349.83
1300.00	0.04	218.43	1299.99	1.39	3.55	-0.72	0.04	3.63	348.48
1400.00	0.11	119.82	1399.99	1.31	3.48	-0.66	0.12	3.54	349.22
1500.00	0.22	174.90	1499.99	1.17	3.24	-0.56	0.18	3.29	350.16
1600.00	0.25	130.99	1599.99	0.93	2.91	-0.38	0.18	2.93	352.54
1700.00	0.59	132.69	1699.99	0.30	2.41	0.16	0.34	2.42	3.86
1800.00	0.62	132.83	1799.98	-0.60	1.70	0.94	0.03	1.94	28.95
1900.00	0.82	136.09	1899.97	-1.64	0.81	1.83	0.20	2.00	66.07
2000.00	0.73	125.46	1999.96	-2.81	-0.07	2.85	0.17	2.85	91.46
2100.00	0.70	130.56	2099.95	-3.92	-0.84	3.83	0.07	3.92	102.36
2200.00	0.74	135.42	2199.95	-4.98	-1.70	4.75	0.07	5.04	109.67
2300.00	0.52	127.90	2299.94	-5.92	-2.43	5.56	0.23	6.07	113.66
2400.00	0.75	126.90	2399.93	-6.91	-3.11	6.44	0.23	7.15	115.76
2500.00	0.73	136.34	2499.93	-8.02	-3.96	7.40	0.12	8.40	118.15
2600.00	0.68	129.86	2599.92	-9.06	-4.80	8.30	0.09	9.59	120.06
2700.00	0.76	126.84	2699.91	-10.18	-5.58	9.28	0.09	10.83	121.01
2800.00	0.75	170.77	2799.90	-11.00	-6.62	9.92	0.56	11.93	123.73
2900.00	0.82	186.35	2899.89	-11.29	-7.98	9.95	0.22	12.75	128.74
3000.00	0.80	183.52	2999.88	-11.43	-9.39	9.82	0.04	13.59	133.70
3100.00	0.97	175.54	3099.87	-11.75	-10.93	9.85	0.21	14.71	137.98
3200.00	1.58	153.64	3199.85	-12.81	-13.01	10.52	0.77	16.73	141.02
3300.00	1.68	153.60	3299.81	-14.54	-15.56	11.79	0.10	19.52	142.85
3400.00	1.99	151.36	3399.76	-16.54	-18.39	13.27	0.32	22.68	144.19
3500.00	2.09	147.98	3499.69	-18.89	-21.46	15.07	0.16	26.23	144.92
3600.00	2.79	136.26	3599.60	-22.12	-24.77	17.72	0.86	30.45	144.42
3700.00	2.72	132.23	3699.49	-26.14	-28.12	21.16	0.21	35.19	143.04
3800.00	2.43	136.39	3799.38	-29.89	-31.25	24.38	0.34	39.64	142.04
3880.00	2.09	144.58	3879.32	-32.33	-33.67	26.39	0.59	42.78	141.90



**Scientific
Drilling**

**Field: Quahada Ridge, SE
Site: Eddy County, NM
Well: Apache 13 Fed #6
Wellpath: VH - Job #32K0305164
Survey: 03/02/05**



PathFinder

Survey Report

Company: Devon Energy		Date: 3/21/2005	Time: 09:03:36	Page: 1
Field: Apache 13 Federal #6H		Co-ordinate(NE) Reference:	Site: Section 13, T22-S, R30-E	
Site: Section 13, T22-S, R30-E		Vertical (TVD) Reference:	SITE 0.0	
Well: Apache 13 Federal #6H		Section (VS) Reference:	Well (0.00N,0.00E,286.06Azi)	
Wellpath: Original Hole		Survey Calculation Method:	Minimum Curvature Db: Sybase	

Field: Apache 13 Federal #6H Eddy County, New Mexico	
Map System: US State Plane Coordinate System 1927	Map Zone: New Mexico, Eastern Zone
Geo Datum: NAD27 (Clarke 1866)	Coordinate System: Site Centre
Sys Datum: Mean Sea Level	Geomagnetic Model: igrf2005

Site: Section 13, T22-S, R30-E Eddy County, New Mexico	
Site Position:	Northing: ft
From: Lease Line	Easting: ft
Position Uncertainty: 0.00 ft	Latitude:
Ground Level: 3373.00 ft	Longitude:
	North Reference: True
	Grid Convergence: 0.27 deg

Well: Apache 13 Federal #6H		Slot Name:	
Well Position:	+N/-S 0.00 ft	Northing: 504081.30 ft	Latitude: 32 23 5.330 N
	+E/-W 0.00 ft	Easting : 656567.42 ft	Longitude: 103 49 34.110 W
Position Uncertainty: 0.00 ft			

Wellpath: Original Hole		Drilled From: Surface	
Current Datum: SITE	Height 0.00 ft	Tie-on Depth:	0.00 ft
Magnetic Data: 2/10/2005		Above System Datum:	Mean Sea Level
Field Strength: 49358 nT		Declination:	8.46 deg
Vertical Section: Depth From (TVD)	+N/-S ft	Mag Dip Angle:	60.45 deg
	ft	+E/-W ft	Direction deg
0.00	0.00	0.00	286.06

Survey: PathFinder MWD Surveys	Start Date: 3/7/2005
Company: PathFinder Energy Services	Engineer: Ron McIntyre
Tool:	Tied-to: From: Definitive Path

Survey: PathFinder MWD Surveys										
MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
3880.00	2.09	144.58	3879.32	-33.67	26.39	-34.68	0.00	0.00	0.00	Tie-In to Gyro
3913.00	2.37	141.08	3912.30	-34.69	27.17	-35.71	0.94	0.85	-10.61	
3945.00	2.37	142.57	3944.27	-35.73	27.99	-36.78	0.19	0.00	4.66	
4008.00	1.04	98.45	4007.24	-36.85	29.35	-38.40	2.82	-2.11	-70.03	
4071.00	1.49	24.45	4070.23	-36.19	30.25	-39.08	2.48	0.71	-117.46	
4135.00	2.73	2.74	4134.19	-33.91	30.67	-38.85	2.27	1.94	-33.92	
4199.00	3.69	350.79	4198.09	-30.35	30.41	-37.62	1.82	1.50	-18.67	
4263.00	3.34	353.95	4261.97	-26.46	29.89	-36.04	0.62	-0.55	4.94	
4326.00	2.46	341.60	4324.89	-23.36	29.27	-34.59	1.71	-1.40	-19.60	
4390.00	2.37	335.41	4388.83	-20.85	28.28	-32.95	0.43	-0.14	-9.67	
4453.00	2.20	331.89	4451.78	-18.60	27.17	-31.25	0.35	-0.27	-5.59	
4517.00	2.20	330.84	4515.73	-16.44	25.99	-29.53	0.06	0.00	-1.64	
4612.00	2.02	341.21	4610.67	-13.26	24.57	-27.28	0.44	-0.19	10.92	
4708.00	2.11	336.38	4706.61	-10.04	23.31	-25.18	0.20	0.09	-5.03	
4804.00	2.20	334.45	4802.54	-6.76	21.81	-22.83	0.12	0.09	-2.01	
4899.00	2.46	335.94	4897.46	-3.25	20.19	-20.30	0.28	0.27	1.57	
4994.00	1.67	339.37	4992.40	-0.10	18.87	-18.16	0.84	-0.83	3.61	
5090.00	1.49	340.60	5088.36	2.39	17.97	-16.60	0.19	-0.19	1.28	
5153.00	1.76	338.75	5151.33	4.06	17.34	-15.54	0.44	0.43	-2.94	
5216.00	1.49	336.99	5214.31	5.72	16.67	-14.44	0.44	-0.43	-2.79	
5280.00	1.49	341.21	5278.29	7.27	16.08	-13.44	0.17	0.00	6.59	
5344.00	1.58	343.06	5342.26	8.90	15.55	-12.48	0.16	0.14	2.89	
5408.00	1.67	340.95	5406.24	10.63	14.99	-11.47	0.17	0.14	-3.30	
5471.00	1.67	343.85	5469.21	12.38	14.44	-10.45	0.13	0.00	4.60	

PathFinder

Survey Report

Company: Devon Energy	Date: 3/21/2005	Time: 09:03:36	Page: 2
Field: Apache 13 Federal #6H	Co-ordinate(N/E) Reference:	Site: Section 13, T22-S, R30-E	
Site: Section 13, T22-S, R30-E	Vertical (TVD) Reference:	SITE 0.0	
Well: Apache 13 Federal #6H	Section (VS) Reference:	Well (0.00N,0.00E,286.06Azi)	
Wellpath: Original Hole	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: PathFinder MWD Surveys

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
5531.00	1.76	338.75	5529.19	14.08	13.86	-9.42	0.30	0.15	-8.50	
5595.00	2.11	334.27	5593.15	16.06	12.99	-8.04	0.60	0.55	-7.00	
5657.00	2.11	333.92	5655.11	18.11	11.99	-6.52	0.02	0.00	-0.56	
5719.00	2.20	342.18	5717.06	20.27	11.13	-5.09	0.52	0.15	13.32	
5781.00	2.11	340.33	5779.02	22.47	10.38	-3.76	0.18	-0.15	-2.98	
5844.00	2.29	341.21	5841.97	24.76	9.58	-2.36	0.29	0.29	1.40	
5938.00	2.99	341.65	5935.87	28.86	8.21	0.10	0.74	0.74	0.47	
5968.00	3.69	334.62	5965.82	30.48	7.55	1.18	2.70	2.33	-23.43	
6001.00	4.48	331.63	5998.74	32.57	6.48	2.78	2.48	2.39	-9.06	
6033.00	5.45	330.93	6030.62	35.00	5.15	4.74	3.04	3.03	-2.19	
6063.00	6.24	329.61	6060.46	37.65	3.63	6.93	2.67	2.63	-4.40	
6113.00	7.12	329.26	6110.12	42.66	0.67	11.15	1.76	1.76	-0.70	
6144.00	7.39	326.71	6140.87	45.98	-1.40	14.07	1.36	0.87	-8.23	
6174.00	8.09	324.78	6170.60	49.31	-3.68	17.18	2.49	2.33	-6.43	
6205.00	8.97	319.42	6201.26	52.93	-6.51	20.90	3.82	2.84	-17.29	
6237.00	9.94	316.61	6232.82	56.83	-10.03	25.36	3.36	3.03	-8.78	
6267.00	10.90	313.26	6262.33	60.66	-13.88	30.11	3.78	3.20	-11.17	
6298.00	11.78	308.08	6292.72	64.62	-18.50	35.65	4.34	2.84	-16.71	
6338.00	13.37	309.13	6331.76	70.06	-25.30	43.70	4.02	3.97	2.62	
6400.00	16.44	308.08	6391.67	79.99	-37.77	58.43	4.97	4.95	-1.69	
6462.00	19.17	306.85	6450.69	91.51	-52.83	76.08	4.44	4.40	-1.98	
6524.00	21.37	303.77	6508.85	103.90	-70.37	96.36	3.94	3.55	-4.97	
6586.00	23.65	298.50	6566.13	116.11	-90.69	119.27	4.91	3.68	-8.50	
6679.00	26.29	293.23	6650.44	133.14	-126.02	157.93	3.71	2.84	-5.67	
6773.00	29.37	283.29	6733.60	146.66	-167.61	201.65	5.92	3.28	-10.57	
6835.00	29.55	277.40	6787.60	152.13	-197.58	231.95	4.68	0.29	-9.50	
6898.00	29.37	273.19	6842.46	154.99	-228.41	262.38	3.30	-0.29	-6.68	
6960.00	30.16	271.43	6896.28	156.22	-259.16	292.27	1.90	1.27	-2.84	
7022.00	30.42	271.43	6949.81	157.00	-290.43	322.53	0.42	0.42	0.00	
7083.00	30.78	272.92	7002.32	158.18	-321.45	352.67	1.38	0.59	2.44	
7144.00	30.60	277.05	7054.78	160.89	-352.45	383.21	3.47	-0.30	6.77	
7206.00	30.25	280.13	7108.25	165.57	-383.49	414.33	2.58	-0.56	4.97	
7268.00	30.16	280.22	7161.83	171.08	-414.19	445.35	0.16	-0.15	0.15	
7332.00	29.99	279.78	7217.21	176.65	-445.78	477.25	0.44	-0.27	-0.69	
7396.00	29.18	279.60	7272.87	181.97	-476.92	508.65	1.27	-1.27	-0.28	
7454.00	28.93	281.89	7323.57	187.22	-504.59	536.69	1.97	-0.43	3.95	
7504.00	30.42	284.44	7367.02	192.87	-528.69	561.41	3.91	2.98	5.10	
7566.00	38.16	285.40	7418.20	201.88	-562.40	596.30	12.51	12.48	1.55	
7628.00	46.96	285.84	7463.82	213.17	-602.75	638.20	14.20	14.19	0.71	
7659.00	50.83	285.76	7484.20	219.53	-625.22	661.55	12.49	12.48	-0.26	
7689.00	53.73	285.76	7502.55	225.98	-648.05	685.28	9.67	9.67	0.00	
7721.00	55.05	285.40	7521.18	232.96	-673.11	711.29	4.23	4.12	-1.12	
7753.00	57.33	285.49	7538.99	240.04	-698.74	737.88	7.13	7.12	0.28	
7783.00	61.20	286.02	7554.32	247.05	-723.55	763.66	12.99	12.90	1.77	
7814.00	63.93	285.32	7568.60	254.47	-750.04	791.17	9.03	8.81	-2.26	
7844.00	66.83	285.05	7581.10	261.62	-776.36	818.43	9.70	9.67	-0.90	
7876.00	71.31	285.14	7592.53	269.40	-805.21	848.31	14.00	14.00	0.28	
7907.00	75.71	285.05	7601.32	277.14	-833.90	878.02	14.20	14.19	-0.29	
7938.00	78.70	284.79	7608.19	284.92	-863.11	908.24	9.68	9.65	-0.84	
7969.00	81.43	284.44	7613.54	292.62	-892.65	938.77	8.88	8.81	-1.13	
8001.00	84.50	284.88	7617.45	300.66	-923.37	970.51	9.69	9.59	1.37	
8084.00	91.28	286.37	7620.51	322.99	-1003.20	1053.40	8.36	8.17	1.80	
8115.00	90.75	286.28	7619.96	331.70	-1032.95	1084.40	1.73	-1.71	-0.29	

PathFinder

Survey Report

Company: Devon Energy	Date: 3/21/2005	Time: 09:03:36	Page: 3
Field: Apache 13 Federal #6H	Co-ordinate(NE) Reference:	Site: Section 13, T22-S, R30-E	
Site: Section 13, T22-S, R30-E	Vertical (TVD) Reference:	SITE 0.0	
Well: Apache 13 Federal #6H	Section (VS) Reference:	Well (0.00N,0.00E,286.06Azi)	
Wellpath: Original Hole	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: PathFinder MWD Surveys

MD ft	Incl deg	Azim deg	TVD ft	+N-S ft	+E-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
8148.00	90.66	286.55	7619.55	341.03	-1064.60	1117.40	0.86	-0.27	0.82	
8179.00	91.01	287.25	7619.10	350.04	-1094.26	1148.39	2.52	1.13	2.26	
8243.00	90.57	286.63	7618.22	368.68	-1155.48	1212.37	1.19	-0.69	-0.97	
8306.00	90.84	286.90	7617.44	386.85	-1215.79	1275.36	0.61	0.43	0.43	
8370.00	90.75	286.55	7616.56	405.27	-1277.08	1339.35	0.56	-0.14	-0.55	
8433.00	90.40	286.19	7615.92	423.02	-1337.52	1402.35	0.80	-0.56	-0.57	
8497.00	90.13	285.05	7615.63	440.26	-1399.16	1466.35	1.83	-0.42	-1.78	
8561.00	89.96	284.61	7615.58	456.64	-1461.03	1530.33	0.74	-0.27	-0.69	
8625.00	91.98	286.11	7614.49	473.58	-1522.73	1594.31	3.93	3.16	2.34	
8689.00	91.45	285.40	7612.58	490.95	-1584.29	1658.28	1.38	-0.83	-1.11	
8753.00	91.36	285.14	7611.01	507.80	-1646.02	1722.26	0.43	-0.14	-0.41	
8816.00	90.66	283.82	7609.90	523.55	-1707.00	1785.22	2.37	-1.11	-2.10	
8880.00	91.19	284.44	7608.87	539.18	-1769.06	1849.18	1.27	0.83	0.97	
8944.00	90.66	283.65	7607.83	554.71	-1831.14	1913.13	1.49	-0.83	-1.23	
9007.00	91.01	284.08	7606.91	569.80	-1892.29	1976.07	0.88	0.56	0.68	
9103.00	88.02	282.24	7607.73	591.65	-1985.75	2071.93	3.66	-3.11	-1.92	
9167.00	87.67	282.15	7610.13	605.16	-2048.27	2135.74	0.56	-0.55	-0.14	
9231.00	87.93	282.33	7612.59	618.72	-2110.76	2199.55	0.49	0.41	0.28	
9295.00	87.32	281.80	7615.24	632.09	-2173.30	2263.34	1.26	-0.95	-0.83	
9358.00	87.14	282.94	7618.29	645.57	-2234.76	2326.14	1.83	-0.29	1.81	
9422.00	88.11	285.14	7620.94	661.08	-2296.79	2390.04	3.75	1.52	3.44	
9485.00	88.37	286.02	7622.87	677.99	-2357.45	2453.00	1.46	0.41	1.40	
9548.00	90.48	286.72	7623.51	695.75	-2417.89	2516.00	3.53	3.35	1.11	
9611.00	90.75	285.23	7622.83	713.08	-2478.45	2578.99	2.40	0.43	-2.37	
9675.00	91.98	285.23	7621.31	729.89	-2540.18	2642.96	1.92	1.92	0.00	
9737.00	92.33	285.32	7618.97	746.21	-2599.95	2704.92	0.58	0.56	0.15	
9800.00	91.98	285.32	7616.61	762.85	-2660.67	2767.87	0.56	-0.56	0.00	
9864.00	90.75	283.82	7615.08	778.94	-2722.59	2831.82	3.03	-1.92	-2.34	
9928.00	90.13	282.15	7614.59	793.32	-2784.95	2895.73	2.78	-0.97	-2.61	
9991.00	90.48	283.91	7614.25	807.52	-2846.32	2958.63	2.85	0.56	2.79	
10055.00	90.75	285.84	7613.57	823.95	-2908.17	3022.61	3.04	0.42	3.02	
10118.00	90.04	285.93	7613.13	841.19	-2968.76	3085.61	1.14	-1.13	0.14	
10182.00	90.75	287.34	7612.69	859.52	-3030.08	3149.60	2.47	1.11	2.20	
10246.00	90.57	286.98	7611.95	878.40	-3091.23	3213.59	0.63	-0.28	-0.56	
10310.00	90.84	288.04	7611.17	897.65	-3152.26	3277.56	1.71	0.42	1.66	
10372.00	91.54	289.71	7609.88	917.70	-3210.91	3339.47	2.92	1.13	2.69	Last PathFinder MWD Survey
10435.00	91.54	289.71	7608.19	938.94	-3270.20	3402.32	0.00	0.00	0.00	Bit Projection - TD

Targets

Name	Description Dip.	Dir.	TVD ft	+N-S ft	+E-W ft	Map Northing ft	Map Easting ft	← Latitude → Deg Min Sec	← Longitude → Deg Min Sec
PBHL Apache 13 Fed #6H			7609.87	941.70	-3271.17	505007.48	653291.82	32 23 14.647 N	103 50 12.259 W

Annotation

MD ft	TVD ft	
3880.00	3879.32	Tie-In to Gyro
10372.00	7609.88	Last PathFinder MWD Survey
10435.00	7608.19	Bit Projection - TD

Devon Energy

Apache '13' Federal #6H Section 13, T22-S, R30-E Eddy County, New Mexico Plan #2 - 030305

COMPANY DETAILS

Devon Energy
20 N. Broadway, Ste. 1500
Oklahoma City, OK 73102

Calculation Method: Minimum Curvature
Error System: Systematic Ellipse
Scan Method: Closest Approach 3D
Error Surface: Elliptical Conic
Warning Method: Error Ratio

PATHFINDER

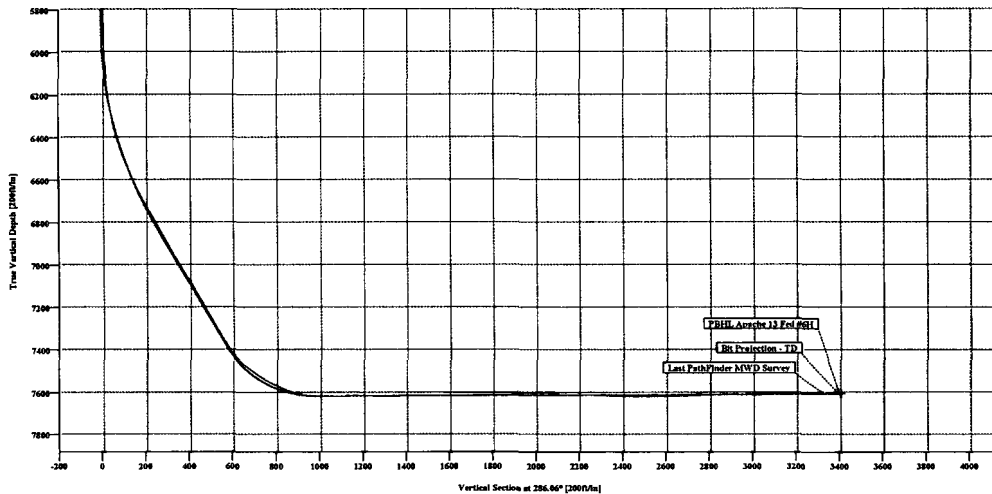
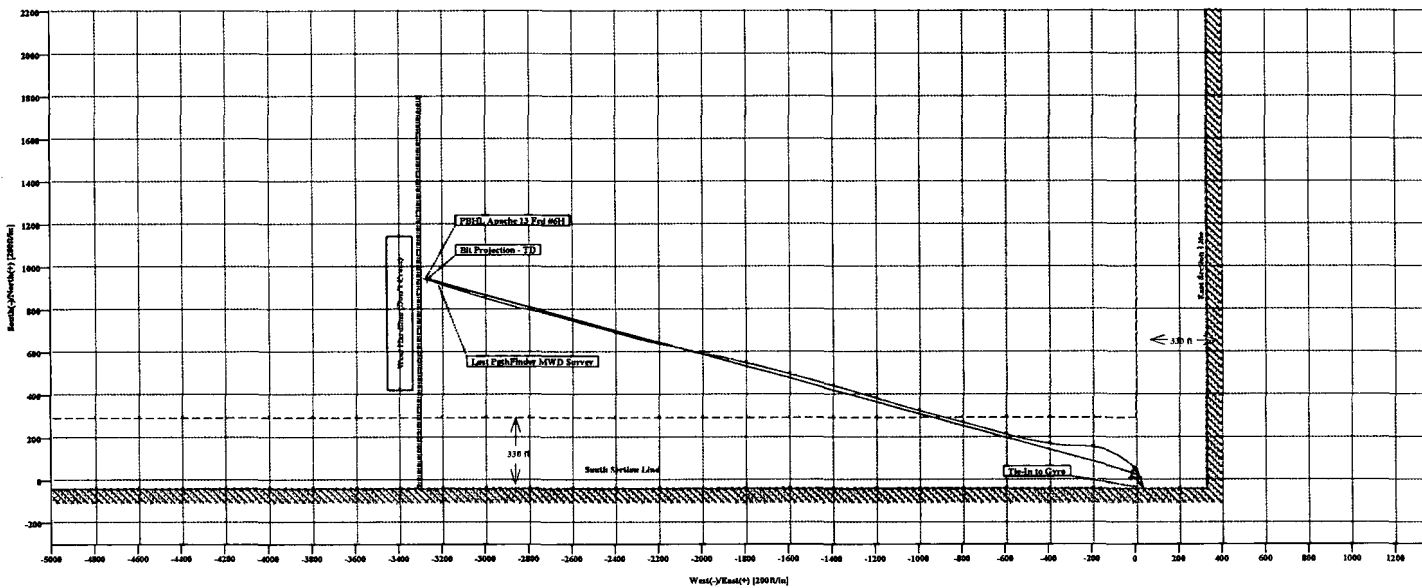
ENERGY SERVICES

WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Apache 13 Federal #6H	0.00	0.00	504081.30	656567.42	32°23'05.330N	103°49'34.110W	N/A

Survey: Pathfinder MWD Surveys (Apache 13 Federal #6H/Original Hole)

No	MD	Inc	Az	TVD	+N/-S	+E/-W	DLeg	TFace	VSec
106	9928.00	90.13	282.15	7614.59	793.32	-2784.95	2.78	-110.36	2895.73
107	9991.00	90.48	283.91	7614.25	807.52	-2846.32	2.85	78.75	2958.63
108	10055.00	90.75	285.84	7613.57	823.95	-2908.17	3.04	82.03	3022.61
109	10118.00	90.04	285.93	7613.13	841.19	-2968.76	1.14	172.78	3085.61
110	10182.00	90.75	287.34	7612.69	859.52	-3030.08	2.47	63.27	3149.60
111	10246.00	90.57	286.98	7611.95	878.40	-3091.23	0.63	-116.56	3213.59
112	10310.00	90.84	288.04	7611.17	897.65	-3152.26	1.71	75.70	3277.56
113	10372.00	91.54	289.71	7609.88	917.70	-3210.91	2.92	67.24	3339.47
114	10435.00	91.54	289.71	7608.19	938.94	-3270.20	0.00	0.00	3402.32

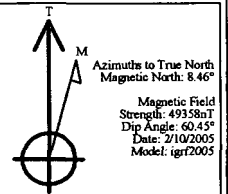


FIELD DETAILS

Apache 13 Federal #6H
Eddy County, New Mexico
Geodetic System: US State Plane Coordinate System 1927
Ellipsoid: NAD27 (Clarke 1866)
Zone: New Mexico, Eastern Zone
Magnetic Model: Igr2005
System Datum: Mean Sea Level
Local North: True North

SITE DETAILS

Section 13, T22-S, R30-E
Eddy County, New Mexico
Ground Level: 3373.00
Positional Uncertainty: 0.00
Convergence: 0.27



Survey: Pathfinder MWD Surveys (Apache 13 Federal #6H/Original Hole)
Created By: Sam McChapman Date: 3/21/2005