

Pathfinder Energy Survey Report

Surface 860/N 845/E
BNL 701/N 1899/E

7069 md
6976 Tvd

30-045-33412

Company: XTO Energy		Date: 7/5/2006		Time: 15:27:09		Page: 1	
Field: San Juan Co. New Mexico		Co-ordinate(NE) Reference: Well: Well #1, Grid North					
Site: Davidson Gas Com G #1G		Vertical (TVD) Reference: System: Mean Sea Level					
Well: Well #1		Section (VS) Reference: Well (0.00N,0.00E,279.50Azi)					
Wellpath: Original Hole		Survey Calculation Method: Minimum Curvature				Db: Sybase	

Field: San Juan Co. New Mexico Section 21; T28N; R10W	
Map System: US State Plane Coordinate System 1927	Map Zone: New Mexico, Western Zone
Geo Datum: NAD27 (Clarke 1866)	Coordinate System: Well Centre
Sys Datum: Mean Sea Level	Geomagnetic Model: igrf2005

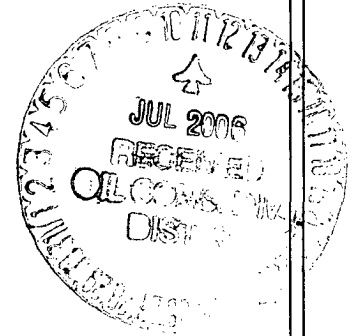
Site: Davidson Gas Com G #1G Section 21; T28N; R10W	
Site Position:	Northing: 2056818.70 ft
From: Geographic	Easting: 482138.97 ft
Position Uncertainty: 0.00 ft	Latitude: 36 39 9.500 N
Ground Level: 5030.00 ft	Longitude: 107 53 39.200 W
	North Reference: Grid
	Grid Convergence: -0.04 deg

Well: Well #1		Slot Name:	
Well Position: +N/-S 0.00 ft	Northing: 2056818.70 ft	Latitude: 36 39 9.500 N	
+E/-W 0.00 ft	Easting: 482138.97 ft	Longitude: 107 53 39.200 W	
Position Uncertainty: 0.00 ft			

Wellpath: Original Hole		Drilled From: Surface	
Current Datum: Mean Sea Level		Tie-on Depth: 0.00 ft	
Magnetic Data: 2/21/2006		Above System Datum: Mean Sea Level	
Field Strength: 43224 nT		Declination: -1.03 deg	
Vertical Section: Depth From (TVD)		Mag Dip Angle: 50.76 deg	
ft	+N/-S ft	+E/-W ft	Direction deg
0.00	0.00	0.00	279.50

Survey: Pathfinder MWD Survey		Start Date: 6/8/2006	
Company: Pathfinder Energy		Engineer:	
Tool:		Tied-to: From Surface	

Survey: Pathfinder MWD Survey										
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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
178.00	0.09	1.53	178.00	0.14	0.00	0.02	0.05	0.05	0.00	
271.00	0.26	319.69	271.00	0.37	-0.13	0.19	0.22	0.18	-44.99	
364.00	0.35	298.07	364.00	0.67	-0.52	0.62	0.16	0.10	-23.25	
456.00	0.79	351.33	455.99	1.43	-0.86	1.09	0.70	0.48	57.89	
549.00	0.79	352.04	548.99	2.70	-1.05	1.48	0.01	0.00	0.76	
642.00	0.79	356.69	641.98	3.97	-1.17	1.81	0.07	0.00	5.00	
703.00	0.88	349.14	702.97	4.85	-1.29	2.07	0.23	0.15	-12.38	
796.00	2.11	304.93	795.94	6.53	-2.82	3.86	1.72	1.32	-47.54	
889.00	3.78	290.60	888.81	8.59	-7.10	8.42	1.95	1.80	-15.41	
981.00	4.75	286.91	980.56	10.77	-13.58	15.17	1.10	1.05	-4.01	
1073.00	6.86	283.83	1072.08	13.19	-22.56	24.43	2.32	2.29	-3.35	
1166.00	8.09	284.10	1164.29	16.11	-34.30	36.49	1.32	1.32	0.29	
1258.00	10.02	277.06	1255.14	18.67	-48.52	50.94	2.42	2.10	-7.65	
1352.00	11.17	277.42	1347.54	20.85	-65.67	68.21	1.23	1.22	0.38	
1446.00	11.08	276.10	1439.77	22.99	-83.68	86.33	0.29	-0.10	-1.40	
1545.00	10.64	280.93	1537.00	25.73	-102.11	104.96	1.02	-0.44	4.88	
1634.00	10.64	281.28	1624.47	28.90	-118.24	121.39	0.07	0.00	0.39	
1727.00	10.11	283.83	1715.95	32.53	-134.58	138.11	0.75	-0.57	2.74	
1821.00	10.02	281.55	1808.50	36.14	-150.61	154.51	0.43	-0.10	-2.43	
1914.00	9.67	282.86	1900.13	39.50	-166.15	170.39	0.45	-0.38	1.41	
2008.00	9.32	280.58	1992.85	42.65	-181.33	185.88	0.55	-0.37	-2.43	
2101.00	9.41	281.55	2084.61	45.56	-196.18	201.01	0.20	0.10	1.04	
2195.00	10.02	279.09	2177.26	48.39	-211.78	216.86	0.78	0.65	-2.62	



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Pathfinder Energy

Survey Report

Company: XTO Energy
Field: San Juan Co. New Mexico
Site: Davidson Gas Com G #1G
Well: Well #1
Wellpath: Original Hole

Date: 7/5/2006 **Time:** 15:27:09 **Page:** 2
Co-ordinate(NE) Reference: Well: Well #1, Grid North
Vertical (TVD) Reference: System: Mean Sea Level
Section (VS) Reference: Well (0.00N,0.00E,279.50Azi)
Survey Calculation Method: Minimum Curvature **Db:** Sybase

Survey: Pathfinder MWD Survey

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
2287.00	10.46	279.00	2267.79	50.96	-227.93	233.22	0.48	0.48	-0.10	
2381.00	9.85	280.93	2360.32	53.82	-244.26	249.79	0.74	-0.65	2.05	
2474.00	9.94	282.95	2451.94	57.12	-259.89	265.75	0.39	0.10	2.17	
2568.00	9.41	283.39	2544.60	60.72	-275.27	281.52	0.57	-0.56	0.47	
2660.00	9.32	283.48	2635.37	64.20	-289.83	296.45	0.10	-0.10	0.10	
2785.00	9.23	279.95	2758.74	68.29	-309.55	316.58	0.46	-0.07	-2.82	
2878.00	9.58	278.54	2850.49	70.73	-324.55	331.77	0.45	0.38	-1.52	
2973.00	9.06	275.26	2944.24	72.59	-339.82	347.14	0.78	-0.55	-3.45	
3066.00	9.32	278.38	3036.04	74.36	-354.56	361.97	0.60	0.28	3.35	
3160.00	10.20	277.77	3128.68	76.59	-370.33	377.90	0.94	0.94	-0.65	
3252.00	9.41	276.89	3219.34	78.60	-385.87	393.55	0.87	-0.86	-0.96	
3346.00	10.64	279.96	3311.90	81.02	-402.05	409.91	1.43	1.31	3.27	
3439.00	9.94	278.73	3403.40	83.72	-418.44	426.52	0.79	-0.75	-1.32	
3533.00	9.67	280.05	3496.03	86.33	-434.23	442.53	0.37	-0.29	1.40	
3626.00	11.26	280.49	3587.48	89.35	-450.85	459.42	1.71	1.71	0.47	
3718.00	10.46	279.35	3677.83	92.34	-467.92	476.75	0.90	-0.87	-1.24	
3811.00	10.20	277.86	3769.33	94.84	-484.41	493.42	0.40	-0.28	-1.60	
3936.00	8.88	277.24	3892.59	97.57	-504.95	514.12	1.06	-1.06	-0.50	
4030.00	9.15	280.49	3985.43	99.84	-519.49	528.85	0.61	0.29	3.46	
4124.00	11.61	280.67	4077.89	102.95	-536.14	545.78	2.62	2.62	0.19	
4218.00	11.26	278.65	4170.02	106.09	-554.51	564.41	0.57	-0.37	-2.15	
4311.00	10.90	280.67	4261.29	109.08	-572.13	582.28	0.57	-0.39	2.17	
4405.00	10.29	279.61	4353.69	112.13	-589.14	599.56	0.68	-0.65	-1.13	
4499.00	11.52	281.81	4445.99	115.45	-606.60	617.34	1.38	1.31	2.34	
4593.00	10.99	282.43	4538.18	119.30	-624.54	635.67	0.58	-0.56	0.66	
4686.00	9.94	281.02	4629.63	122.74	-641.08	652.54	1.16	-1.13	-1.52	
4780.00	10.02	278.12	4722.21	125.45	-657.14	668.83	0.54	0.09	-3.09	
4872.00	9.94	276.45	4812.82	127.47	-672.95	684.76	0.33	-0.09	-1.82	
4965.00	11.08	277.06	4904.26	129.47	-689.80	701.70	1.23	1.23	0.66	
5059.00	9.85	275.75	4996.69	131.39	-706.76	718.75	1.33	-1.31	-1.39	
5154.00	10.46	283.57	5090.21	134.22	-723.23	735.46	1.59	0.64	8.23	
5247.00	10.73	277.24	5181.62	137.30	-740.02	752.53	1.28	0.29	-6.81	
5341.00	8.97	272.85	5274.24	138.76	-756.02	768.56	2.03	-1.87	-4.67	
5436.00	9.94	275.39	5367.94	139.90	-771.59	784.09	1.11	1.02	2.67	
5529.00	9.85	273.20	5459.56	141.10	-787.52	800.01	0.42	-0.10	-2.35	
5621.00	9.85	270.30	5550.21	141.58	-803.25	815.60	0.54	0.00	-3.15	
5713.00	9.85	274.16	5640.85	142.19	-818.96	831.20	0.72	0.00	4.20	
5806.00	9.58	273.46	5732.52	143.24	-834.62	846.82	0.32	-0.29	-0.75	
5931.00	9.15	275.04	5855.85	144.74	-854.90	867.07	0.40	-0.34	1.26	
6026.00	9.67	271.97	5949.57	145.67	-870.40	882.51	0.76	0.55	-3.23	
6120.00	9.50	273.46	6042.26	146.41	-886.04	898.05	0.32	-0.18	1.59	
6213.00	10.99	277.59	6133.78	148.05	-902.48	914.54	1.79	1.60	4.44	
6307.00	9.94	276.89	6226.21	150.20	-919.42	931.60	1.13	-1.12	-0.74	
6400.00	10.11	279.88	6317.79	152.57	-935.43	947.78	0.59	0.18	3.22	
6494.00	8.88	276.70	6410.50	154.83	-950.77	963.28	1.42	-1.31	-3.38	
6588.00	9.15	274.87	6503.34	156.31	-965.42	977.98	0.42	0.29	-1.95	
6681.00	10.55	275.83	6594.97	157.80	-981.26	993.84	1.52	1.51	1.03	
6775.00	10.82	273.77	6687.34	159.26	-998.62	1011.21	0.50	0.29	-2.19	
6867.00	10.82	275.48	6777.70	160.65	-1015.83	1028.42	0.35	0.00	1.86	
6962.00	10.82	275.92	6871.02	162.42	-1033.58	1046.21	0.09	0.00	0.46	
7069.00	10.82	275.92	6976.11	164.49	-1053.56	1066.26	0.00	0.00	0.00	