

Pathfinder Energy

Survey Report

30-045-32671

Company: XTO Energy Date: 10/13/2006 Time: 12:31:49 Page: 1
 Field: Stanolind Gas Com D #1R Co-ordinate(NE) Reference: Site: Stanolind Gas Com D #1R, Grid Nort
 Site: Stanolind Gas Com D #1R Vertical (TVD) Reference: SITE 0.0
 Well: Stanolind Gas Com D #1R Section (VS) Reference: Well (0.00N,0.00E,322.59Azi)
 Wellpath: Original Hole Survey Calculation Method: Minimum Curvature Db: Sybase

Field: Stanolind Gas Com D #1R

I- 17-32N-12W

Map System: US State Plane Coordinate System 1927
 Geo Datum: NAD27 (Clarke 1866)
 Sys Datum: Mean Sea Level

Map Zone: New Mexico, Western Zone
 Coordinate System: Site Centre
 Geomagnetic Model: igrf2005

Site: Stanolind Gas Com D #1R

Site Position: Northing: ft Latitude:
 From: Local Only Easting: ft Longitude:
 Position Uncertainty: 0.00 ft North Reference: Grid
 Ground Level: 0.00 ft Grid Convergence: deg

SURFACE 1815/S 665/E
 BHL 1865/S 703/E
 TVD 4650
 Md 4657

Well: Stanolind Gas Com D #1R

Slot Name:

Well Position: +N/-S 0.00 ft Northing: ft Latitude:
 +E/-W 0.00 ft Easting: ft Longitude:
 Position Uncertainty: 0.00 ft

Wellpath: Original Hole

Current Datum: SITE Height 0.00 ft
 Magnetic Data: 7/5/2006
 Field Strength: 0 nT
 Vertical Section: Depth From (TVD) +N/-S
 ft ft
 0.00 0.00 0.00 322.59

Survey: Pathfinder MWD Surveys

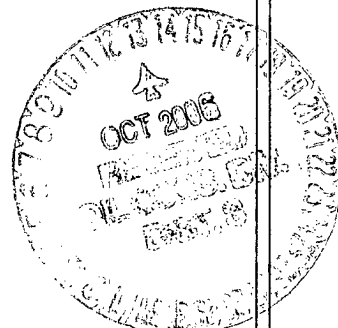
Start Date: 7/5/2006

Company: Pathfinder Energy
 Tool:

Engineer: Midwellplan
 Tied-to: From Surface

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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
687.00	2.46	324.26	686.79	11.97	-8.61	14.74	0.36	0.36	0.00	
719.00	2.29	326.02	718.76	13.06	-9.37	16.06	0.58	-0.53	5.50	
751.00	2.46	324.62	750.73	14.15	-10.13	17.39	0.56	0.53	-4.37	
782.00	2.11	330.59	781.71	15.19	-10.79	18.62	1.36	-1.13	19.26	
814.00	1.06	350.28	813.70	15.99	-11.13	19.46	3.65	-3.28	61.53	
846.00	0.53	21.92	845.69	16.42	-11.13	19.80	2.09	-1.66	98.88	
878.00	0.70	32.82	877.69	16.72	-10.96	19.94	0.64	0.53	34.06	
910.00	0.70	1.88	909.69	17.08	-10.85	20.16	1.17	0.00	-96.69	
941.00	0.35	48.29	940.69	17.33	-10.78	20.31	1.69	-1.13	149.71	
973.00	0.18	126.33	972.69	17.37	-10.66	20.27	1.12	-0.53	243.87	
1005.00	0.35	123.17	1004.69	17.29	-10.54	20.13	0.53	0.53	-9.87	
1036.00	0.18	122.12	1035.69	17.21	-10.42	20.00	0.55	-0.55	-3.39	
1068.00	0.35	82.74	1067.69	17.19	-10.28	19.90	0.75	0.53	-123.06	
1100.00	0.18	89.07	1099.69	17.21	-10.13	19.82	0.54	-0.53	19.78	
1131.00	0.35	25.79	1130.69	17.29	-10.04	19.84	1.01	0.55	-204.13	
1163.00	0.18	8.91	1162.69	17.43	-9.99	19.92	0.58	-0.53	-52.75	
1195.00	0.53	6.80	1194.69	17.63	-9.97	20.06	1.09	1.09	-6.59	
1228.00	0.70	349.22	1227.68	17.98	-9.99	20.35	0.76	0.52	-53.27	
1259.00	0.70	356.26	1258.68	18.35	-10.03	20.67	0.28	0.00	22.71	
1291.00	0.35	34.93	1290.68	18.63	-9.99	20.87	1.50	-1.09	120.84	
1323.00	0.70	15.94	1322.68	18.89	-9.88	21.01	1.21	1.09	-59.34	
1354.00	1.06	5.40	1353.67	19.36	-9.80	21.33	1.27	1.16	-34.00	
1386.00	1.23	355.55	1385.67	20.00	-9.80	21.84	0.81	0.53	-30.78	



8/10/08

Pathfinder Energy

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Well: Stanolind Gas Com D #1R	Section (VS) Reference:	Well (0.00N,0.00E,322.59Azi)	
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
1418.00	0.70	346.06	1417.66	20.53	-9.88	22.31	1.72	-1.66	-29.66	
1449.00	0.53	291.92	1448.66	20.77	-10.05	22.60	1.87	-0.55	-174.65	
1481.00	0.70	290.16	1480.66	20.89	-10.37	22.90	0.53	0.53	-5.50	
1545.00	0.88	51.45	1544.66	21.33	-10.36	23.24	2.16	0.28	189.52	
1608.00	0.35	237.78	1607.66	21.53	-10.14	23.26	1.95	-0.84	-275.67	
1671.00	0.88	238.13	1670.65	21.17	-10.72	23.33	0.84	0.84	0.56	
1735.00	1.06	62.70	1734.65	21.19	-10.61	23.27	3.03	0.28	-274.11	
1798.00	0.88	54.26	1797.64	21.74	-9.70	23.16	0.36	-0.29	-13.40	
1862.00	1.06	300.01	1861.63	22.32	-9.81	23.69	2.55	0.28	-178.52	
1925.00	0.53	323.21	1924.63	22.84	-10.49	24.52	0.97	-0.84	36.83	
1989.00	0.35	343.95	1988.63	23.27	-10.72	24.99	0.37	-0.28	32.41	
2052.00	0.70	326.37	2051.62	23.77	-10.99	25.56	0.61	0.56	-27.90	
2115.00	1.23	327.08	2114.61	24.66	-11.57	26.62	0.84	0.84	1.13	
2178.00	1.23	287.35	2177.60	25.43	-12.58	27.84	1.33	0.00	-63.06	
2242.00	0.00	150.59	2241.60	25.64	-13.24	28.40	1.92	-1.92	0.00	
2305.00	0.18	298.95	2304.60	25.68	-13.32	28.49	0.29	0.29	0.00	
2369.00	0.70	332.00	2368.59	26.08	-13.59	28.97	0.87	0.81	51.64	
2432.00	0.53	336.22	2431.59	26.68	-13.89	29.63	0.28	-0.27	6.70	
2496.00	0.88	353.44	2495.59	27.44	-14.07	30.34	0.63	0.55	26.91	
2559.00	0.18	302.12	2558.58	27.98	-14.21	30.85	1.24	-1.11	-81.46	
2622.00	1.23	337.62	2621.58	28.65	-14.55	31.60	1.73	1.67	56.35	
2686.00	1.23	1.53	2685.56	29.98	-14.79	32.80	0.80	0.00	37.36	
2749.00	0.53	258.87	2748.56	30.60	-15.06	33.45	2.29	-1.11	-162.95	
2813.00	0.70	7.86	2812.56	30.93	-15.30	33.86	1.57	0.27	170.30	
2876.00	0.53	287.70	2875.55	31.40	-15.52	34.37	1.27	-0.27	-127.24	
2939.00	1.06	308.80	2938.55	31.85	-16.25	35.17	0.95	0.84	33.49	
3003.00	0.53	314.07	3002.54	32.43	-16.93	36.04	0.84	-0.83	8.23	
3066.00	0.88	331.65	3065.54	33.05	-17.37	36.81	0.65	0.56	27.90	
3130.00	1.76	327.72	3129.52	34.32	-18.12	38.27	1.38	1.37	-6.14	
3193.00	1.23	284.89	3192.50	35.31	-19.29	39.77	1.90	-0.84	-67.98	
3257.00	0.88	359.07	3256.49	35.98	-19.97	40.71	2.04	-0.55	115.91	
3320.00	0.53	244.11	3319.49	36.33	-20.24	41.15	1.91	-0.56	-182.48	
3383.00	1.06	255.01	3382.48	36.06	-21.06	41.43	0.87	0.84	17.30	
3447.00	1.76	286.65	3446.46	36.18	-22.57	42.46	1.60	1.09	49.44	
3510.00	0.35	158.33	3509.45	36.28	-23.43	43.05	3.17	-2.24	-203.68	
3574.00	1.06	12.08	3573.45	36.68	-23.23	43.25	2.13	1.11	-228.52	
3637.00	0.35	298.60	3636.45	37.34	-23.28	43.81	1.61	-1.13	-116.63	
3700.00	1.06	292.97	3699.44	37.66	-23.99	44.49	1.13	1.13	-8.94	
3764.00	2.11	301.41	3763.41	38.51	-25.54	46.10	1.68	1.64	13.19	
3827.00	2.64	309.15	3826.36	40.03	-27.65	48.59	0.98	0.84	12.29	
3890.00	1.58	316.88	3889.32	41.58	-29.37	50.87	1.74	-1.68	12.27	
3954.00	0.35	272.23	3953.31	42.23	-30.17	51.87	2.11	-1.92	-69.77	
4017.00	0.88	295.44	4016.30	42.44	-30.80	52.42	0.91	0.84	36.84	
4081.00	1.41	282.78	4080.29	42.83	-32.01	53.47	0.91	0.83	-19.78	
4144.00	1.46	274.34	4143.27	43.06	-33.57	54.60	0.34	0.08	-13.40	
4208.00	1.23	316.18	4207.25	43.62	-34.86	55.82	1.54	-0.36	65.37	
4271.00	0.70	91.88	4270.25	44.09	-34.94	56.25	2.86	-0.84	215.40	
4334.00	0.70	119.30	4333.25	43.89	-34.22	55.65	0.53	0.00	43.52	
4398.00	1.76	282.43	4397.24	43.91	-34.84	56.05	3.81	1.66	254.89	
4461.00	0.70	351.69	4460.23	44.50	-35.84	57.12	2.62	-1.68	109.94	
4525.00	0.53	14.19	4524.22	45.18	-35.82	57.65	0.46	-0.27	35.16	
4588.00	1.06	339.38	4587.22	46.00	-35.96	58.39	1.10	0.84	-55.25	
4651.00	2.11	329.19	4650.19	47.55	-36.76	60.10	1.72	1.67	-16.17	

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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
4665.00	2.46	329.54	4664.18	48.03	-37.04	60.65	2.50	2.50	2.50	
4712.00	2.46	329.54	4711.14	49.77	-38.06	62.65	0.00	0.00	0.00	