

Pathfinder Energy

Survey Report

Company: Myco Industries Inc. Field: Chaves County, NM NAD-27 Site: Alfalfa Well: Alfalfa 32 Fee #1 Wellpath: OH	Date: 2/27/2007 Time: 15:25:40 Page: 1 Co-ordinate(NE) Reference: Well: Alfalfa 32 Fee #1, Grid North Vertical (TVD) Reference: SITE 17.0 Section (VS) Reference: Well (0.00N,0.00E,269.92Azi) Survey Calculation Method: Minimum Curvature Db: Sybase
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Field: Chaves County, NM NAD-27

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

Map Zone: New Mexico, Eastern Zone
Coordinate System: Well Centre
Geomagnetic Model: igrf2005

Site: Alfalfa

Chaves Co.

Site Position:	Northing: 715226.60 ft	Latitude: 32 57 58.208 N
From: Map	Easting: 462241.00 ft	Longitude: 104 27 23.209 W
Position Uncertainty: 0.00 ft		North Reference: Grid
Ground Level: 3459.00 ft		Grid Convergence: -0.07 deg

Well: Alfalfa 32 Fee #1

Slot Name:

Well Position:	Northing: 715226.60 ft	Latitude: 32 57 58.208 N
+N/-S 0.00 ft	Easting: 462241.00 ft	Longitude: 104 27 23.209 W
+E/-W 0.00 ft		
Position Uncertainty: 0.00 ft		

Wellpath: OH

Drilled From: Surface
Tie-on Depth: 0.00 ft
Above System Datum: Mean Sea Level
Declination: 8.57 deg
Mag Dip Angle: 60.83 deg
+E/-W ft
Direction deg

Current Datum: SITE
Magnetic Data: 12/28/2006
Field Strength: 49453 nT
Vertical Section: Depth From (TVD) ft
Height 17.00 ft
+N/-S ft

0.00 0.00 0.00 269.92

Survey: Pathfinder MWD

Start Date: 2/16/2007

Company: Pathfinder Energy
Tool:

Engineer:
Tied-to: From: Definitive Path

Survey: Pathfinder MWD

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
4200.00	1.66	96.28	4199.80	12.13	4.04	-4.06	0.00	0.00	0.00	
4278.00	1.85	82.54	4277.76	12.17	6.41	-6.43	0.59	0.24	-17.62	
4310.00	0.79	57.22	4309.75	12.35	7.11	-7.13	3.70	-3.31	-79.12	
4342.00	2.37	293.39	4341.74	12.73	6.69	-6.71	9.02	4.94	-386.97	
4374.00	6.07	287.67	4373.65	13.51	4.47	-4.49	11.62	11.56	-17.87	
4405.00	9.67	285.56	4404.35	14.71	0.40	-0.42	11.65	11.61	-6.81	
4437.00	13.45	285.21	4435.70	16.40	-5.79	5.76	11.81	11.81	-1.09	
4469.00	17.06	284.60	4466.57	18.57	-13.92	13.90	11.29	11.28	-1.91	
4501.00	20.66	283.98	4496.84	21.11	-23.95	23.92	11.27	11.25	-1.94	
4533.00	24.01	283.81	4526.44	24.03	-35.75	35.72	10.47	10.47	-0.53	
4564.00	27.35	283.02	4554.37	27.14	-48.82	48.78	10.83	10.77	-2.55	
4596.00	29.99	280.99	4582.45	30.32	-63.83	63.79	8.79	8.25	-6.34	
4628.00	32.71	278.88	4609.77	33.18	-80.23	80.18	9.17	8.50	-6.59	
4660.00	35.53	277.21	4636.26	35.69	-98.00	97.95	9.29	8.81	-5.22	
4691.00	38.69	276.42	4660.98	37.90	-116.57	116.52	10.31	10.19	-2.55	
4723.00	41.94	277.13	4685.38	40.35	-137.12	137.07	10.26	10.16	2.22	
4755.00	45.20	277.57	4708.56	43.17	-159.00	158.93	10.23	10.19	1.37	
4787.00	48.28	277.57	4730.49	46.24	-182.09	182.03	9.62	9.62	0.00	
4819.00	51.79	277.48	4751.04	49.45	-206.40	206.34	10.97	10.97	-0.28	
4850.00	55.84	277.21	4769.34	52.65	-231.21	231.14	13.08	13.06	-0.87	
4882.00	60.32	277.04	4786.25	56.01	-258.16	258.08	14.01	14.00	-0.53	
4914.00	64.81	276.51	4800.99	59.36	-286.36	286.27	14.11	14.03	-1.66	
4946.00	69.29	275.10	4813.47	62.33	-315.66	315.58	14.58	14.00	-4.41	
4977.00	73.25	272.82	4823.42	64.36	-344.94	344.85	14.55	12.77	-7.35	

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Survey Report

Company: Myco Industries Inc.
Field: Chaves County, NM NAD-27
Site: Alfalfa
Well: Alfalfa 32 Fee #1
Wellpath: OH

Date: 2/27/2007 **Time:** 15:25:40 **Page:** 2
Co-ordinate(NE) Reference: Well: Alfalfa 32 Fee #1, Grid North
Vertical (TVD) Reference: SITE 17.0
Section (VS) Reference: Well (0.00N,0.00E,269.92Azi)
Survey Calculation Method: Minimum Curvature **Db:** Sybase

Survey: Pathfinder MWD

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
5009.00	76.94	270.36	4831.65	65.21	-375.85	375.76	13.72	11.53	-7.69	
5040.00	81.25	267.72	4837.52	64.69	-406.27	406.18	16.22	13.90	-8.52	
5072.00	85.56	267.55	4841.19	63.38	-438.03	437.94	13.48	13.47	-0.53	
5103.00	86.79	267.63	4843.26	62.08	-468.93	468.84	3.98	3.97	0.26	
5134.00	86.35	267.11	4845.11	60.66	-499.84	499.76	2.20	-1.42	-1.68	
5164.00	86.61	267.55	4846.96	59.27	-529.75	529.67	1.70	0.87	1.47	
5195.00	87.93	268.34	4848.43	58.16	-560.70	560.61	4.96	4.26	2.55	
5226.00	89.08	268.34	4849.24	57.26	-591.67	591.59	3.71	3.71	0.00	
5257.00	88.90	268.34	4849.79	56.36	-622.65	622.58	0.58	-0.58	0.00	
5288.00	88.90	268.43	4850.38	55.49	-653.64	653.56	0.29	0.00	0.29	
5319.00	88.99	269.12	4850.95	54.82	-684.62	684.55	2.24	0.29	2.23	
5349.00	88.99	269.22	4851.48	54.39	-714.62	714.54	0.33	0.00	0.33	
5380.00	88.72	269.04	4852.10	53.92	-745.61	745.53	1.05	-0.87	-0.58	
5411.00	89.25	269.39	4852.65	53.49	-776.60	776.52	2.05	1.71	1.13	
5442.00	89.87	268.95	4852.89	53.04	-807.59	807.52	2.45	2.00	-1.42	
5473.00	89.78	269.22	4852.98	52.55	-838.59	838.52	0.92	-0.29	0.87	
5504.00	89.78	269.22	4853.10	52.13	-869.59	869.51	0.00	0.00	0.00	
5535.00	89.96	268.95	4853.17	51.63	-900.58	900.51	1.05	0.58	-0.87	
5565.00	91.28	269.04	4852.85	51.11	-930.58	930.50	4.41	4.40	0.30	
5596.00	91.89	268.60	4851.99	50.47	-961.56	961.49	2.43	1.97	-1.42	
5627.00	91.89	268.86	4850.97	49.78	-992.53	992.46	0.84	0.00	0.84	
5658.00	91.45	268.60	4850.07	49.09	-1023.51	1023.44	1.65	-1.42	-0.84	
5689.00	91.28	269.13	4849.33	48.48	-1054.50	1054.43	1.80	-0.55	1.71	
5720.00	91.45	269.30	4848.59	48.06	-1085.48	1085.42	0.78	0.55	0.55	
5751.00	91.89	268.95	4847.69	47.58	-1116.47	1116.40	1.81	1.42	-1.13	
5782.00	91.80	268.95	4846.69	47.02	-1147.45	1147.38	0.29	-0.29	0.00	
5813.00	91.36	269.20	4845.83	46.51	-1178.43	1178.36	1.63	-1.42	0.81	
5843.00	91.10	269.48	4845.19	46.17	-1208.42	1208.36	1.27	-0.87	0.93	
5874.00	91.19	269.92	4844.57	46.01	-1239.42	1239.35	1.45	0.29	1.42	
5905.00	91.80	269.83	4843.76	45.94	-1270.40	1270.34	1.99	1.97	-0.29	
5936.00	91.71	270.27	4842.81	45.97	-1301.39	1301.32	1.45	-0.29	1.42	
5967.00	91.63	270.27	4841.91	46.11	-1332.38	1332.31	0.26	-0.26	0.00	
5998.00	91.63	270.27	4841.03	46.26	-1363.36	1363.30	0.00	0.00	0.00	
6029.00	91.89	270.71	4840.07	46.52	-1394.35	1394.28	1.65	0.84	1.42	
6060.00	91.63	270.36	4839.12	46.81	-1425.33	1425.26	1.41	-0.84	-1.13	
6090.00	91.54	270.53	4838.29	47.05	-1455.32	1455.25	0.64	-0.30	0.57	
6121.00	91.01	269.39	4837.60	47.02	-1486.31	1486.24	4.05	-1.71	-3.68	
6153.00	91.10	268.60	4837.01	46.46	-1518.30	1518.23	2.48	0.28	-2.47	
6185.00	91.10	268.16	4836.40	45.56	-1550.28	1550.22	1.37	0.00	-1.37	
6217.00	91.98	268.07	4835.54	44.51	-1582.25	1582.19	2.76	2.75	-0.28	
6248.00	92.08	268.16	4834.44	43.49	-1613.22	1613.15	0.43	0.32	0.29	
6280.00	92.07	268.51	4833.28	42.56	-1645.18	1645.12	1.09	-0.03	1.09	
6312.00	91.89	268.51	4832.18	41.73	-1677.15	1677.09	0.56	-0.56	0.00	
6375.00	91.63	268.78	4830.24	40.24	-1740.10	1740.05	0.59	-0.41	0.43	
6439.00	91.63	269.30	4828.42	39.17	-1804.07	1804.01	0.81	0.00	0.81	
6502.00	91.54	269.57	4826.68	38.54	-1867.04	1866.99	0.45	-0.14	0.43	
6566.00	90.84	269.13	4825.35	37.82	-1931.02	1930.97	1.29	-1.09	-0.69	
6630.00	90.57	269.04	4824.56	36.80	-1995.01	1994.96	0.44	-0.42	-0.14	
6693.00	90.31	268.70	4824.08	35.55	-2058.00	2057.94	0.68	-0.41	-0.54	
6757.00	89.96	268.86	4823.93	34.19	-2121.98	2121.93	0.60	-0.55	0.25	
6820.00	90.04	269.04	4823.93	33.04	-2184.97	2184.92	0.31	0.13	0.29	
6884.00	90.31	269.22	4823.73	32.07	-2248.96	2248.92	0.51	0.42	0.28	
6947.00	90.40	269.13	4823.34	31.16	-2311.95	2311.91	0.20	0.14	-0.14	

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Wellpath: OH

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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
7011.00	90.84	269.22	4822.65	30.24	-2375.94	2375.90	0.70	0.69	0.14	
7074.00	91.89	269.13	4821.15	29.33	-2438.92	2438.88	1.67	1.67	-0.14	
7138.00	91.71	269.65	4819.14	28.65	-2502.88	2502.84	0.86	-0.28	0.81	
7201.00	91.63	269.48	4817.30	28.17	-2565.85	2565.81	0.30	-0.13	-0.27	
7265.00	90.66	268.95	4816.02	27.29	-2629.84	2629.79	1.73	-1.52	-0.83	
7328.00	92.07	269.74	4814.52	26.57	-2692.81	2692.77	2.57	2.24	1.25	
7392.00	93.12	269.74	4811.62	26.28	-2756.74	2756.70	1.64	1.64	0.00	
7455.00	93.03	269.57	4808.24	25.91	-2819.65	2819.61	0.30	-0.14	-0.27	
7519.00	92.77	269.92	4805.01	25.62	-2883.57	2883.53	0.68	-0.41	0.55	
7583.00	92.59	270.01	4802.01	25.58	-2947.50	2947.46	0.31	-0.28	0.14	
7646.00	93.03	270.18	4798.93	25.69	-3010.42	3010.38	0.75	0.70	0.27	
7710.00	92.77	270.36	4795.69	25.99	-3074.34	3074.30	0.49	-0.41	0.28	
7773.00	92.68	270.36	4792.69	26.38	-3137.27	3137.23	0.14	-0.14	0.00	
7837.00	92.24	270.10	4789.95	26.64	-3201.21	3201.17	0.80	-0.69	-0.41	
7900.00	91.71	269.74	4787.77	26.55	-3264.17	3264.13	1.02	-0.84	-0.57	
7932.00	91.98	269.92	4786.74	26.46	-3296.15	3296.11	1.01	0.84	0.56	
7996.00	91.89	269.48	4784.58	26.12	-3360.12	3360.08	0.70	-0.14	-0.69	
8027.00	91.80	269.57	4783.58	25.86	-3391.10	3391.06	0.41	-0.29	0.29	
8091.00	90.22	268.51	4782.46	24.79	-3455.08	3455.04	2.97	-2.47	-1.66	
8155.00	90.57	268.16	4782.02	22.93	-3519.05	3519.01	0.77	0.55	-0.55	
8218.00	90.84	268.07	4781.24	20.86	-3582.01	3581.98	0.45	0.43	-0.14	
8282.00	91.01	267.90	4780.21	18.61	-3645.96	3645.93	0.38	0.27	-0.27	
8345.00	90.40	267.98	4779.43	16.35	-3708.92	3708.89	0.98	-0.97	0.13	
8409.00	88.72	268.34	4779.92	14.29	-3772.88	3772.85	2.68	-2.62	0.56	
8472.00	88.02	268.25	4781.72	12.42	-3835.82	3835.80	1.12	-1.11	-0.14	
8536.00	87.67	267.72	4784.12	10.17	-3899.74	3899.72	0.99	-0.55	-0.83	
8599.00	87.49	267.55	4786.78	7.57	-3962.63	3962.62	0.39	-0.29	-0.27	
8663.00	88.81	268.95	4788.85	5.62	-4026.56	4026.55	3.01	2.06	2.19	
8726.00	88.99	268.60	4790.06	4.27	-4089.54	4089.53	0.62	0.29	-0.56	
8790.00	88.46	268.16	4791.48	2.46	-4153.50	4153.49	1.08	-0.83	-0.69	
8853.00	88.20	267.90	4793.32	0.30	-4216.43	4216.43	0.58	-0.41	-0.41	
8917.00	87.93	267.72	4795.48	-2.15	-4280.35	4280.35	0.51	-0.42	-0.28	
8975.00	87.23	267.63	4797.93	-4.50	-4338.25	4338.25	1.22	-1.21	-0.16	
9042.00	87.23	267.63	4801.17	-7.26	-4405.11	4405.12	0.00	0.00	0.00	