

PathFinder Energy Services, Inc.

Survey Report

DEVON ENERGY CORPORATION
COCKBURN G FEDERAL #5H
LEA COUNTY, NEW MEXICO

Rig: McVAY 8

PathFinder Office Supervisor: FRANCISCO SINISTERRA
PathFinder Field Engineers: J. HOLMES
B. BLAKEMORE
J. FULTON

HOBBS OGD

MAY 10 2011

Survey Horiz. Reference: WELLHEAD
Ref Coordinates: LAT: 32.45.33.7871 N LON: 103.39.30.3708 W
GRID Reference: NAD83 new mexico east Transverse Mercator
Ref GRID Coord: X: 74806.8820 Y: 640657.4940
North Aligned To: GRID NORTH
Total Magnetic Correction: 7.35° EAST TO GRID
Vertical Section Plane: 10.05
Survey Vert. Reference: 19.00' Kelly Bushing To Ground
Altitude: 3957.00' Ground To MSL

Survey Calculations by RX5 V6.03D using Minimum Curvature

RECEIVED

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Subsea Depth (ft)	Vertical Section (ft)	Rectangular Offsets (ft)	TOTAL (ft)	Closure Dist (ft)	DLS (dg/100ft)	TEMP (F)
THE FOLLOWING ARE SCIENTIFIC DRILLING GYRO SURVEYS.										
100.00	0.41	292.30	100.00	81.00	0.18	0.27 N	0.47 W	0.54@ 299.95	0.00	0.00
200.00	0.31	292.66	199.99	180.99	0.32	0.51 N	1.05 W	1.17@ 295.93	0.10	0.00
300.00	0.71	291.44	299.99	280.99	0.50	0.84 N	1.88 W	2.06@ 294.15	0.40	0.00
400.00	1.07	290.44	399.98	380.98	0.79	1.39 N	3.33 W	3.61@ 292.73	0.36	0.00
500.00	1.07	290.39	499.96	480.96	1.13	2.05 N	5.08 W	5.48@ 291.94	0.00	0.00
600.00	1.32	304.71	599.94	580.94	1.78	3.03 N	6.90 W	7.54@ 293.68	0.39	0.00
700.00	1.59	307.48	699.91	680.91	2.90	4.53 N	8.95 W	10.03@ 296.83	0.28	0.00
800.00	1.82	307.10	799.86	780.86	4.26	6.33 N	11.32 W	12.97@ 299.22	0.23	0.00
900.00	1.84	307.97	899.81	880.81	5.73	8.27 N	13.85 W	16.13@ 300.86	0.03	0.00
1000.00	1.75	306.31	999.76	980.76	7.16	10.17 N	16.35 W	19.25@ 301.88	0.10	0.00
1100.00	1.09	311.73	1099.73	1080.73	8.33	11.70 N	18.29 W	21.71@ 302.62	0.67	0.00
1200.00	0.77	311.06	1199.72	1180.72	9.18	12.78 N	19.50 W	23.32@ 303.23	0.32	0.00
1300.00	0.55	296.40	1299.71	1280.71	9.66	13.43 N	20.44 W	24.46@ 303.32	0.28	0.00
1400.00	0.53	282.75	1399.71	1380.71	9.82	13.75 N	21.32 W	25.37@ 302.82	0.13	0.00
1500.00	0.40	285.60	1499.70	1480.70	9.87	13.94 N	22.11 W	26.14@ 302.24	0.13	0.00
1600.00	0.41	287.30	1599.70	1580.70	9.95	14.14 N	22.78 W	26.82@ 301.83	0.02	0.00
1700.00	0.14	327.99	1699.70	1680.70	10.09	14.35 N	23.19 W	27.27@ 301.76	0.32	0.00
1800.00	0.05	13.97	1799.70	1780.70	10.22	14.50 N	23.25 W	27.40@ 301.96	0.11	0.00
1900.00	0.06	1.69	1899.70	1880.70	10.32	14.60 N	23.23 W	27.44@ 302.14	0.02	0.00
2000.00	0.07	23.50	1999.70	1980.70	10.43	14.70 N	23.21 W	27.47@ 302.36	0.03	0.00
2100.00	0.11	13.23	2099.70	2080.70	10.58	14.85 N	23.16 W	27.51@ 302.67	0.04	0.00
2200.00	0.25	352.42	2199.70	2180.70	10.89	15.17 N	23.17 W	27.69@ 303.21	0.16	0.00
2300.00	0.12	22.48	2299.70	2280.70	11.20	15.48 N	23.16 W	27.86@ 303.76	0.16	0.00
2400.00	0.37	32.45	2399.70	2380.70	11.60	15.85 N	22.94 W	27.89@ 304.64	0.25	0.00
2500.00	0.78	42.16	2499.69	2480.69	12.48	16.63 N	22.31 W	27.83@ 306.69	0.42	0.00

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2600.00	0.94	43.17	2599.68	2580.68	13.74	17.73 N	21.30 W	27.71@ 309.78	0.16
2700.00	1.31	43.93	2699.66	2680.66	15.38	19.15 N	19.94 W	27.65@ 313.84	0.37
2800.00	1.77	50.91	2799.63	2780.63	17.50	20.95 N	17.95 W	27.59@ 319.41	0.50
2900.00	1.58	51.39	2899.58	2880.58	19.70	22.78 N	15.67 W	27.65@ 325.47	0.19
3000.00	1.47	48.36	2999.55	2980.55	21.74	24.50 N	13.64 W	28.04@ 330.89	0.14
3100.00	1.37	53.41	3099.52	3080.52	23.62	26.06 N	11.72 W	28.57@ 335.79	0.16
3200.00	1.15	49.55	3199.49	3180.49	25.26	27.42 N	10.00 W	29.19@ 339.97	0.24
3300.00	1.01	49.08	3299.47	3280.47	26.72	28.65 N	8.57 W	29.91@ 343.35	0.14
3400.00	0.96	44.14	3399.46	3380.46	28.10	29.83 N	7.32 W	30.71@ 346.22	0.10
3500.00	1.00	43.29	3499.45	3480.45	29.52	31.07 N	6.14 W	31.67@ 348.83	0.04
3600.00	0.92	43.35	3599.43	3580.43	30.92	32.29 N	4.99 W	32.67@ 351.22	0.08
3700.00	0.96	44.66	3699.42	3680.42	32.28	33.47 N	3.85 W	33.69@ 353.44	0.05
3800.00	0.97	41.53	3799.40	3780.40	33.69	34.70 N	2.70 W	34.80@ 355.56	0.05
3900.00	0.82	40.46	3899.39	3880.39	35.03	35.87 N	1.67 W	35.91@ 357.33	0.15
4000.00	0.79	42.70	3999.38	3980.38	36.23	36.92 N	0.74 W	36.93@ 358.85	0.04
4100.00	0.72	39.54	4099.37	4080.37	37.36	37.92 N	0.13 E	37.92@ 0.20	0.08
4200.00	0.61	42.17	4199.37	4180.37	38.35	38.79 N	0.89 E	38.80@ 1.31	0.11
4300.00	0.41	38.87	4299.36	4280.36	39.12	39.47 N	1.47 E	39.50@ 2.13	0.20
4400.00	0.53	45.49	4399.36	4380.36	39.81	40.07 N	2.02 E	40.12@ 2.89	0.13
4500.00	0.53	48.45	4499.35	4480.35	40.55	40.70 N	2.70 E	40.79@ 3.79	0.03
4600.00	0.45	42.81	4599.35	4580.35	41.24	41.30 N	3.31 E	41.43@ 4.58	0.09
4700.00	0.43	45.49	4699.35	4680.35	41.88	41.85 N	3.85 E	42.02@ 5.25	0.03
4800.00	0.43	50.57	4799.35	4780.35	42.47	42.35 N	4.40 E	42.58@ 5.94	0.04
4900.00	0.50	51.21	4899.34	4880.34	43.08	42.86 N	5.03 E	43.16@ 6.70	0.07
5000.00	0.49	55.55	4999.34	4980.34	43.71	43.38 N	5.73 E	43.75@ 7.52	0.04
5100.00	0.43	49.54	5099.33	5080.33	44.30	43.86 N	6.36 E	44.32@ 8.26	0.08
5200.00	0.44	53.22	5199.33	5180.33	44.87	44.33 N	6.96 E	44.88@ 8.92	0.03
5300.00	0.35	55.92	5299.33	5280.33	45.36	44.74 N	7.52 E	45.36@ 9.54	0.09

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5400.00	0.32	49.88	5399.33	5380.33	45.79	45.09 N 7.99 E	45.79@ 10.04	0.05	0.00
5500.00	0.35	55.92	5499.33	5480.33	46.22	45.44 N 8.45 E	46.22@ 10.54	0.05	0.00
5600.00	0.31	49.66	5599.32	5580.32	46.64	45.79 N 8.91 E	46.65@ 11.02	0.05	0.00
5700.00	0.31	25.81	5699.32	5680.32	47.11	46.21 N 9.24 E	47.12@ 11.31	0.13	0.00
5800.00	0.36	42.10	5799.32	5780.32	47.64	46.68 N 9.57 E	47.65@ 11.58	0.11	0.00
5900.00	0.37	35.87	5899.32	5880.32	48.19	47.18 N 9.97 E	48.22@ 11.93	0.04	0.00
6000.00	0.38	35.87	5999.32	5980.32	48.78	47.71 N 10.35 E	48.82@ 12.24	0.01	0.00
6100.00	0.23	35.42	6099.32	6080.32	49.26	48.14 N 10.66 E	49.31@ 12.49	0.15	0.00
6200.00	0.24	28.69	6199.31	6180.31	49.64	48.49 N 10.88 E	49.69@ 12.64	0.03	0.00
6300.00	0.39	52.12	6299.31	6280.31	50.09	48.88 N 11.25 E	50.16@ 12.96	0.20	0.00
6400.00	0.53	49.67	6399.31	6380.31	50.70	49.39 N 11.87 E	50.79@ 13.51	0.14	0.00
6500.00	0.56	46.72	6499.31	6480.31	51.45	50.02 N 12.58 E	51.58@ 14.11	0.04	0.00
6600.00	0.56	52.59	6599.30	6580.30	52.20	50.65 N 13.32 E	52.38@ 14.73	0.06	0.00
6700.00	0.58	53.30	6699.30	6680.30	52.93	51.25 N 14.11 E	53.16@ 15.40	0.02	0.00
6800.00	1.28	43.73	6799.28	6780.28	54.23	52.36 N 15.29 E	54.55@ 16.28	0.71	0.00
6900.00	1.65	43.03	6899.25	6880.25	56.37	54.22 N 17.05 E	56.84@ 17.45	0.37	0.00
7000.00	2.19	41.17	6999.19	6980.19	59.21	56.71 N 19.29 E	59.90@ 18.78	0.54	0.00
7100.00	3.03	57.93	7099.09	7080.09	62.62	59.56 N 22.78 E	63.77@ 20.94	1.13	0.00
7200.00	3.80	63.23	7198.91	7179.91	66.38	62.45 N 27.98 E	68.43@ 24.14	0.83	0.00
7300.00	3.94	68.31	7298.68	7279.68	70.17	65.21 N 34.13 E	73.61@ 27.63	0.37	0.00
7400.00	3.77	70.46	7398.46	7379.46	73.60	67.58 N 40.42 E	78.75@ 30.89	0.22	0.00
7500.00	3.35	70.30	7498.26	7479.26	76.67	69.67 N 46.27 E	83.63@ 33.59	0.42	0.00
7600.00	2.18	63.89	7598.15	7579.15	79.25	71.49 N 50.73 E	87.66@ 35.36	1.21	0.00
7700.00	1.87	79.34	7698.08	7679.08	80.94	72.63 N 54.04 E	90.53@ 36.65	0.63	0.00
7800.00	1.70	79.34	7798.04	7779.04	82.05	73.20 N 57.10 E	92.84@ 37.96	0.17	0.00
7900.00	1.56	71.64	7898.00	7879.00	83.22	73.91 N 59.85 E	95.10@ 39.00	0.26	0.00
8000.00	1.38	77.44	7997.96	7978.96	84.33	74.60 N 62.32 E	97.21@ 39.88	0.23	0.00
8100.00	1.31	71.03	8097.93	8078.93	85.35	75.23 N 64.58 E	99.15@ 40.64	0.17	0.00

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8200.00	1.53	65.72	8197.90	8178.90	86.65	76.15 N 66.88 E	101.35@ 41.29	0.26	0.00
8300.00	1.11	63.72	8297.88	8278.88	87.98	77.13 N 68.96 E	103.46@ 41.80	0.42	0.00
8400.00	1.01	61.74	8397.86	8378.86	89.10	77.98 N 70.61 E	105.19@ 42.16	0.11	0.00
8500.00	0.98	50.73	8497.85	8478.85	90.30	78.93 N 72.04 E	106.87@ 42.39	0.19	0.00
** TIE IN TO SCIENTIFIC DRILLING GYRO SURVEYS @ 8565' MD.									
8565.00	0.50	30.94	8562.84	8543.84	90.98	79.53 N 72.62 E	107.70@ 42.40	0.83	0.00
8590.00	0.62	35.31	8587.84	8568.84	91.21	79.73 N 72.75 E	107.94@ 42.38	0.51	111.87
8622.00	0.53	344.46	8619.84	8600.84	91.50	80.02 N 72.81 E	108.19@ 42.30	1.56	108.25
8654.00	1.76	355.62	8651.83	8632.83	92.11	80.65 N 72.74 E	108.61@ 42.05	3.89	111.87
8686.00	3.96	9.04	8683.79	8664.79	93.69	82.23 N 72.87 E	109.88@ 41.55	7.14	111.87
8718.00	6.77	15.95	8715.65	8696.65	96.67	85.14 N 73.57 E	112.52@ 40.83	8.99	111.87
8750.00	10.73	12.49	8747.27	8728.27	101.52	89.86 N 74.73 E	116.87@ 39.75	12.48	111.87
8782.00	14.25	7.80	8778.51	8759.51	108.44	96.67 N 75.91 E	122.91@ 38.14	11.44	111.87
8813.00	17.15	5.43	8808.35	8789.35	116.81	105.01 N 76.86 E	130.13@ 36.20	9.58	111.87
8845.00	20.05	3.89	8838.67	8819.67	126.97	115.18 N 77.68 E	138.92@ 34.00	9.19	111.87
8877.00	22.95	4.70	8868.44	8849.44	138.63	126.87 N 78.56 E	149.22@ 31.77	9.11	115.48
8909.00	26.20	5.99	8897.54	8878.54	151.90	140.12 N 79.81 E	161.25@ 29.67	10.29	115.48
8941.00	28.93	6.63	8925.90	8906.90	166.67	154.83 N 81.44 E	174.95@ 27.74	8.58	115.48
8973.00	31.66	6.38	8953.53	8934.53	182.78	170.87 N 83.27 E	190.08@ 25.98	8.54	115.48
9006.00	34.73	6.26	8981.14	8962.14	200.81	188.83 N 85.26 E	207.18@ 24.30	9.30	119.09
9038.00	37.64	6.57	9006.97	8987.97	219.66	207.60 N 87.37 E	225.23@ 22.82	9.11	119.09
9070.00	40.54	6.66	9031.80	9012.80	239.80	227.64 N 89.69 E	244.67@ 21.51	9.06	119.09
9102.00	43.62	7.49	9055.55	9036.55	261.21	248.92 N 92.34 E	265.49@ 20.35	9.78	119.09
9134.00	46.69	9.22	9078.12	9059.12	283.89	271.36 N 95.64 E	287.72@ 19.42	10.33	119.09
9166.00	49.77	9.83	9099.43	9080.43	307.75	294.89 N 99.60 E	311.26@ 18.66	9.73	119.09
9198.00	53.38	9.88	9119.31	9100.31	332.81	319.59 N 103.89 E	336.05@ 18.01	11.28	122.71
9230.00	56.37	9.62	9137.72	9118.72	358.98	345.38 N 108.32 E	361.97@ 17.41	9.37	119.09

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9262.00	58.74	9.71	9154.89	9135.89	385.99	372.00 N	388.74@ 16.88	7.41	122.71
9294.00	61.55	10.40	9170.82	9151.82	413.74	399.32 N	416.31@ 16.42	8.98	122.71
9326.00	65.16	10.86	9185.17	9166.17	442.33	427.43 N	444.77@ 16.05	11.35	122.71
9358.00	68.24	10.42	9197.82	9178.82	471.72	456.31 N	474.03@ 15.72	9.71	122.71
9390.00	70.79	10.03	9209.02	9190.02	501.69	485.81 N	503.88@ 15.39	8.05	119.09
9422.00	73.51	9.87	9218.83	9199.83	532.15	515.81 N	534.20@ 15.08	8.51	122.71
9454.00	76.59	9.50	9227.08	9208.08	563.06	546.28 N	564.99@ 14.79	9.69	122.71
9487.00	79.23	9.69	9233.99	9214.99	595.32	578.10 N	597.13@ 14.50	8.02	119.09
9519.00	81.78	9.50	9239.27	9220.27	626.88	609.21 N	628.58@ 14.26	7.99	119.09
9551.00	84.94	9.52	9242.97	9223.97	658.66	640.56 N	660.25@ 14.03	9.88	119.09
9581.00	88.02	9.86	9244.81	9225.81	688.60	670.07 N	690.11@ 13.84	10.33	119.09
9613.00	91.19	10.29	9245.03	9226.03	720.60	701.57 N	722.04@ 13.68	10.00	119.09
9644.00	94.18	10.24	9243.58	9224.58	751.56	732.04 N	752.95@ 13.54	9.65	119.09
9675.00	94.62	10.39	9241.20	9222.20	782.47	762.45 N	783.81@ 13.41	1.50	119.09
9706.00	94.79	10.21	9238.66	9219.66	813.36	792.84 N	814.66@ 13.29	0.80	119.09
9737.00	95.06	10.39	9236.00	9217.00	844.25	823.23 N	845.51@ 13.18	1.05	119.09
9767.00	95.32	10.16	9233.29	9214.29	874.12	852.63 N	875.35@ 13.08	1.15	119.09
9860.00	95.41	8.46	9224.59	9205.59	966.70	944.00 N	967.76@ 12.72	1.82	122.71
9890.00	95.50	7.87	9221.74	9202.74	996.55	973.56 N	997.53@ 12.59	1.98	122.71
9921.00	95.67	7.96	9218.72	9199.72	1027.38	1004.12 N	1028.28@ 12.45	0.62	122.71
9952.00	95.14	8.01	9215.80	9196.80	1058.23	1034.68 N	1059.05@ 12.32	1.72	119.09
9984.00	94.97	8.21	9212.98	9193.98	1090.08	1066.24 N	1090.85@ 12.19	0.82	119.09
10016.00	93.03	8.49	9210.75	9191.75	1121.99	1097.82 N	1122.70@ 12.08	6.12	119.09
10046.00	92.68	8.41	9209.25	9190.25	1151.94	1127.46 N	1152.60@ 11.99	1.20	122.71
10075.00	92.86	8.36	9207.85	9188.85	1180.89	1156.12 N	1181.51@ 11.90	0.64	122.71
10106.00	93.12	8.25	9206.24	9187.24	1211.84	1186.75 N	1212.41@ 11.81	0.91	122.71
10137.00	92.59	7.94	9204.69	9185.69	1242.78	1217.40 N	1243.31@ 11.72	1.98	122.71
10168.00	92.59	7.88	9203.29	9184.29	1273.73	1248.08 N	1274.21@ 11.62	0.19	122.71

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Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Subsea Depth (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft)	Closure Dist Dir (ft) (deg)	DLS (dg/100ft)	TEMP (F)
10202.00	90.57	8.38	9202.35	9183.35	1307.69	1281.72 N	261.55 E 1308.13@	11.53	126.32
10230.00	90.22	8.42	9202.16	9183.16	1335.68	1309.42 N	265.64 E 1336.09@	11.47	126.32
10261.00	90.92	8.78	9201.85	9182.85	1366.67	1340.07 N	270.28 E 1367.05@	11.40	126.32
10292.00	91.71	9.27	9201.14	9182.14	1397.66	1370.68 N	275.14 E 1398.02@	11.35	126.32
10323.00	92.33	9.41	9200.05	9181.05	1428.64	1401.25 N	280.16 E 1428.98@	11.31	126.32
10353.00	92.59	9.21	9198.76	9179.76	1458.61	1430.82 N	285.01 E 1458.93@	11.27	126.32
10384.00	92.59	9.22	9197.36	9178.36	1489.57	1461.39 N	289.97 E 1489.88@	11.22	126.32
10415.00	92.59	9.04	9195.96	9176.96	1520.53	1491.97 N	294.89 E 1520.83@	11.18	126.32
10446.00	93.03	9.05	9194.44	9175.44	1551.49	1522.54 N	299.75 E 1551.77@	11.14	126.32
10477.00	93.30	8.63	9192.73	9173.73	1582.44	1553.13 N	304.51 E 1582.70@	11.09	126.32
10507.00	93.83	8.70	9190.86	9171.86	1612.37	1582.73 N	309.02 E 1612.62@	11.05	126.32
10538.00	93.21	8.53	9188.96	9169.96	1643.30	1613.32 N	313.66 E 1643.53@	11.00	126.32
10569.00	92.24	8.57	9187.49	9168.49	1674.26	1643.94 N	318.26 E 1674.47@	10.96	126.32
10600.00	92.51	8.26	9186.20	9167.20	1705.22	1674.58 N	322.79 E 1705.41@	10.91	129.94
10631.00	92.68	8.06	9184.80	9165.80	1736.17	1705.24 N	327.19 E 1736.34@	10.86	129.94
10661.00	92.77	7.70	9183.37	9164.37	1766.11	1734.92 N	331.30 E 1766.27@	10.81	126.32
10692.00	91.63	8.20	9182.18	9163.18	1797.07	1765.60 N	335.58 E 1797.21@	10.76	129.94
10723.00	90.84	8.97	9181.51	9162.51	1828.05	1796.24 N	340.21 E 1828.18@	10.72	129.94
10754.00	90.66	8.64	9181.11	9162.11	1859.04	1826.88 N	344.95 E 1859.16@	10.69	129.94
10784.00	91.10	8.75	9180.65	9161.65	1889.03	1856.53 N	349.49 E 1889.14@	10.66	129.94
10815.00	91.63	8.79	9179.91	9160.91	1920.01	1887.16 N	354.21 E 1920.11@	10.63	129.94
10846.00	92.15	9.01	9178.89	9159.89	1950.99	1917.77 N	359.01 E 1951.08@	10.60	129.94
10877.00	92.33	9.04	9177.67	9158.67	1981.96	1948.36 N	363.86 E 1982.05@	10.58	129.94
10907.00	92.59	8.47	9176.39	9157.39	2011.93	1977.98 N	368.43 E 2012.00@	10.55	129.94
10938.00	93.12	8.74	9174.84	9155.84	2042.88	2008.60 N	373.06 E 2042.95@	10.52	129.94
10969.00	93.56	8.84	9173.04	9154.04	2073.82	2039.18 N	377.79 E 2073.88@	10.50	129.94
11000.00	93.39	9.24	9171.16	9152.16	2104.75	2069.74 N	382.65 E 2104.81@	10.47	129.94
11030.00	93.65	9.04	9169.32	9150.32	2134.69	2099.30 N	387.41 E 2134.75@	10.46	129.94

PathFinder Energy Services, Inc.

Survey Report

DEVON ENERGY CORPORATION
COCKBURN G FEDERAL #5H
LEA COUNTY, NEW MEXICO
RIG:McVAY 8

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Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Subsea Depth (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft)	Closure Dist Dir (ft) (deg)	DLS (dg/100ft)	TEMP (F)
11062.00	94.53	9.25	9167.03	9148.03	2166.61	2130.81 N	2166.66@ 10.44	2.83	133.55
11093.00	94.97	8.94	9164.47	9145.47	2197.50	2161.32 N	2197.54@ 10.42	1.73	133.55
11124.00	95.41	9.20	9161.66	9142.66	2228.37	2191.81 N	2228.41@ 10.40	1.65	133.55
11154.00	95.41	9.11	9158.83	9139.83	2258.23	2221.29 N	2258.27@ 10.38	0.30	133.55
11185.00	94.62	8.76	9156.12	9137.12	2289.10	2251.80 N	2289.14@ 10.36	2.79	133.55
11216.00	95.06	9.04	9153.51	9134.51	2319.99	2282.31 N	2320.02@ 10.34	1.68	133.55
11247.00	95.58	8.94	9150.63	9131.63	2350.85	2312.80 N	2350.88@ 10.33	1.71	133.55
11277.00	96.20	8.97	9147.55	9128.55	2380.68	2342.28 N	2380.71@ 10.31	2.07	133.55
11308.00	95.85	8.70	9144.30	9125.30	2411.51	2372.74 N	2411.53@ 10.29	1.42	133.55
11339.00	96.11	8.37	9141.07	9122.07	2442.33	2403.23 N	2442.34@ 10.27	1.35	133.55
11370.00	96.29	8.18	9137.72	9118.72	2473.13	2433.73 N	2473.14@ 10.24	0.84	133.55
11401.00	94.70	8.43	9134.75	9115.75	2503.97	2464.26 N	2503.98@ 10.22	5.19	133.55
11431.00	94.88	8.40	9132.25	9113.25	2533.86	2493.84 N	2533.86@ 10.20	0.61	133.55
11462.00	94.70	8.15	9129.66	9110.66	2564.73	2524.41 N	2564.74@ 10.17	0.99	129.94
11492.00	94.97	7.79	9127.13	9108.13	2594.61	2554.01 N	2594.61@ 10.15	1.50	126.32
11524.00	94.62	7.66	9124.46	9105.46	2626.47	2585.61 N	2626.47@ 10.12	1.17	126.32
11555.00	94.97	7.61	9121.87	9102.87	2657.33	2616.23 N	2657.33@ 10.09	1.14	126.32
11586.00	93.39	7.52	9119.61	9100.61	2688.22	2646.87 N	2688.22@ 10.06	5.10	126.32
11616.00	92.86	8.27	9117.97	9098.97	2718.15	2676.55 N	2718.15@ 10.04	3.06	129.94
11647.00	92.95	8.09	9116.40	9097.40	2749.10	2707.19 N	2749.10@ 10.02	0.65	129.94
11677.00	93.30	8.02	9114.76	9095.76	2779.03	2736.85 N	2779.04@ 10.00	1.19	126.32
11709.00	93.30	8.15	9112.92	9093.92	2810.96	2768.48 N	2810.96@ 9.97	0.41	126.32
11740.00	93.21	8.78	9111.16	9092.16	2841.90	2799.09 N	2841.90@ 9.96	2.05	126.32
11770.00	93.39	8.32	9109.44	9090.44	2871.84	2828.71 N	2871.85@ 9.94	1.64	126.32
11801.00	93.56	8.45	9107.56	9088.56	2902.77	2859.32 N	2902.78@ 9.93	0.69	126.32
11833.00	93.83	8.40	9105.49	9086.49	2934.69	2890.91 N	2934.70@ 9.91	0.86	126.32
11864.00	93.74	8.10	9103.45	9084.45	2965.61	2921.52 N	2965.62@ 9.89	1.01	126.32
11895.00	93.21	8.71	9101.57	9082.57	2996.54	2952.13 N	2996.55@ 9.88	2.60	126.32

PathFinder Energy Services, Inc.

Survey Report

DEVON ENERGY CORPORATION
COCKBURN G FEDERAL #5H
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11926.00	93.39	8.81	9099.78	9080.78	3027.48	2982.72 N	3027.49@	9.87	126.32
11956.00	93.65	8.97	9097.94	9078.94	3057.42	3012.30 N	3057.43@	9.86	126.32
11987.00	93.74	8.75	9095.94	9076.94	3088.34	3042.87 N	3088.36@	9.85	126.32
12019.00	93.56	8.81	9093.91	9074.91	3120.27	3074.43 N	3120.29@	9.84	129.94
12049.00	93.65	8.73	9092.02	9073.02	3150.20	3104.02 N	3150.23@	9.83	126.32
12080.00	93.65	8.80	9090.05	9071.05	3181.13	3134.60 N	3181.16@	9.82	126.32
12111.00	93.47	9.13	9088.12	9069.12	3212.07	3165.16 N	3212.10@	9.81	129.94
12142.00	93.47	9.11	9086.25	9067.25	3243.01	3195.71 N	3243.04@	9.80	129.94
12173.00	93.56	9.18	9084.35	9065.35	3273.95	3226.26 N	3273.98@	9.79	129.94
12196.00	93.47	9.28	9082.94	9063.94	3296.90	3248.92 N	3296.93@	9.79	126.32
12249.00	93.47	9.28	9079.73	9060.73	3349.80	3301.13 N	3349.83@	9.78	0.00
STRAIGHT LINE PROJECTION TO BIT @ 12249' MD.									

** The survey data at tie-in point was furnished by a recognized survey company and entered as submitted. Survey stations above the tie-in point represent recalculated data by PathFinder Energy Services, Inc. and may reflect minor changes due to rounding differences between survey programs. Only survey stations taken by qualified PathFinder personnel are subject to certification.