

Results of Directional Survey

API number:	30-025-40277		
OGRID:		Operator:	RMR OPERATING, LLC
		Property:	MADERA 24 FEDERAL # 2H

surface	ULSTR:	P	24	T	26S	R	34E
				10	FSL	500	FEL

BH Loc	ULSTR:	A	24	T	26S	R	34E
13800	MD	9070.2	TVD	345	FNL	568	FEL
				4935	FSL		

Top Perf/OH	ULSTR:	P	24	T	26S	R	34E
9208	MD	9021.4	TVD	351	FSL	459	FEL

Bot Perf/OH	ULSTR:	A	24	T	26S	R	34E
13800	MD	9070.2	TVD	345	FNL	568	FEL
				4935	FSL		

	MD	N/S	E/W	VD
	9191	324.39	41.22	9018.17
TOP PERFS/OH	9208	341.07	40.72	9021.40
	9222	354.80	40.30	9024.06
	13755	4879.72	-67.28	9070.62
BOT PERFS/OH	13800	4924.71	-68.44	9070.24
	13800	4924.71	-68.44	9070.24

NEXT TO LAST	13755	4879.72	-67.28	9070.62
LAST READING	13800	4924.71	-68.44	9070.24
TD	13800	4924.71	-68.44	9070.24

Surface Location	10	FS	500	FE
Projected BHL	4935	FS	568	FE
Location of				
Top Perfs/OH	351	FS	459	FE
Bottom Perfs/OH	4935	FS	568	FE

SUMMARY of Subsurface Locations

Surface Location	P-24-26S-34E	10	FS	500	FE	Vert. Depth
Top Perfs/OH	P-24-26S-34E	351	FS	459	FE	9021.40
Bottom Perfs/OH	A-24-26S-34E	4935	FS	568	FE	9070.24
Projected TD	A-24-26S-34E	4935	FS	568	FE	9070.24

FEB 28 2012

RMR OPERATING, LLC.
 MADERA 24 FED #2H
 LEA COUNTY, NM
 Rig, WESTERN 3
 Pathfinder Office Supervisor: FRANCISCO SINISTERRA
 Pathfinder Field Engineers: S. MOORE
 N. DUFF

PathFinder Energy Services, Inc. Survey Report

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 Tie-in Date: 12/02/2011
 Date Completed: 12/18/2011

Survey Horiz. Reference: WELLHEAD
 Ref Coordinates: LAT 32.117.3140 N LON 103.24 58 5781 W
 GRID Reference: NAD27 new mexico east Transverse Mercator
 Ref GRID Coord. X: 784223.3000 Y: 372745.6000
 North Aligned To: GRID NORTH
 Total Magnetic Correction: 6 96° EAST TO GRID
 Vertical Section Plane: 359.50
 Survey Vert. Reference: 20 00' Rotary Table To Ground
 Altitude: 3190.00' Ground To MSL

Survey Calculations by RX4 using Minimum Curvature

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
THE FOLLOWING ARE SCIENTIFIC DRILLING GYRO SURVEYS.										
0.00	0.00	0.00	0.04	0.00	-0.76	0.77 S	1.57 W	1.75@	243.67	0.00
100.00	0.32	200 73	100.04	100.00	-1.02	1.04 S	1.66 W	1.96@	238.10	0.32
200.00	0.66	194 08	200.04	100.00	-1.84	1.86 S	1 90 W	2.66@	225.72	0.34
300.00	0.87	195.03	300 03	100 00	-3.13	3.15 S	2 24 W	3 86@	215.44	0.21
400.00	1.11	200.80	400 02	100 00	-4.76	4.79 S	2.78 W	5.54@	210.16	0.26
500.00	1.17	204.60	500.00	100 00	-6.59	6.62 S	3.55 W	7.51@	208 20	0.10
600.00	1.28	206.79	599 97	100.00	-8 51	8.54 S	4 48 W	9.65@	207.66	0.12
700.00	1.28	207.48	699.95	100.00	-10.48	10.53 S	5.50 W	11.88@	207 56	0.02
800.00	1.42	212.55	799.92	100.00	-12.51	12.57 S	6.68 W	14 23@	207 99	0.18
900.00	1.53	215.22	899.89	100.00	-14.63	14 70 S	8.12 W	16.79@	208 90	0.13
1000.00	1.67	222 57	999.85	100.00	-16.78	16.87 S	9.87 W	19.54@	210 34	0.25
1100.00	1.72	231.19	1099.80	100.00	-18.78	18.88 S	12.03 W	22.39@	212 50	0.26
1200.00	1.66	229.02	1199.76	100.00	-20 65	20.77 S	14 29 W	25.21@	214 53	0.09
1300.00	1.77	231.95	1299 72	100.00	-22.53	22.67 S	16.60 W	28.10@	216 21	0.14
1400.00	1.71	233 46	1399.67	100.00	-24.35	24 51 S	19.01 W	31.02@	217.80	0.08
1500.00	1.58	233.73	1499.63	100.00	-26.03	26.22 S	21.32 W	33.79@	219.12	0.13
1600.00	1.55	234.15	1599.59	100.00	-27 62	27.82 S	23.53 W	36.44@	220 22	0.03
1700 00	1.54	229 31	1699 56	100.00	-29.27	29 49 S	25.65 W	39.08@	221 01	0.13
1800.00	1.64	233.01	1799.52	100.00	-30.99	31 23 S	27.81 W	41 82@	221.68	0.14
1900.00	1.57	229.77	1899.48	100.00	-32.71	32.98 S	30.00 W	44.58@	222.29	0.12
2000.00	1.57	221.80	1999.44	100.00	-34 60	34.88 S	31.96 W	47.31@	222.49	0.22
2100.00	1.52	219 57	2099.40	100.00	-36.63	36.93 S	33 71 W	50.00@	222 40	0.08
2200:00	1 55	217.34	2199.37	100.00	-38.71	39.02 S	35.38 W	52.67@	222 20	0.07
2300.00	1.25	211.55	2299.34	100.00	-40.71	41.03 S	36.77 W	55.09@	221.87	0.33
2400.00	0.79	191.23	2399.32	100 00	-42.30	42.63 S	37 48 W	56.76@	221.32	0.58

SUR: P-24-26s-34e, 10/S & 500/E
 BHL: A-24-26s-34e, 4935/S & 568/E
 API # 30-025-40277

HOBBS OGD

FEB 22 2012

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PathFinder Energy Services, Inc.

Survey Report

RMR OPERATING, LLC.
MADERA 24 FED #2H
LEA COUNTY, NM
RIG: WESTERN 3

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Measured Depth (ft)	Incl (deg)	Drift Dir (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
2500.00	0.59	170.15	2499.32	100.00	-43.49	43.82 S	37.52 W	57.69@	220.57	0.32
2600.00	0.72	130.80	2599.31	100.00	-44.41	44.73 S	36.96 W	58.03@	219.56	0.46
2700.00	0.77	124.79	2699.30	100.00	-45.21	45.53 S	35.93 W	58.00@	218.28	0.09
2800.00	0.75	131.04	2799.29	100.00	-46.04	46.34 S	34.89 W	58.00@	216.97	0.09
2900.00	0.74	111.67	2899.28	100.00	-46.71	47.01 S	33.79 W	57.89@	215.71	0.25
3000.00	0.78	94.45	2999.27	100.00	-47.02	47.30 S	32.51 W	57.40@	214.50	0.23
3100.00	0.91	85.07	3099.26	100.00	-47.01	47.29 S	31.04 W	56.57@	213.29	0.19
3200.00	1.10	78.28	3199.25	100.00	-46.76	47.02 S	29.31 W	55.41@	211.94	0.22
3300.00	1.87	70.33	3299.21	100.00	-46.04	46.28 S	26.84 W	53.50@	210.11	0.79
3400.00	2.49	69.49	3399.14	100.00	-44.76	44.97 S	23.26 W	50.63@	207.36	0.62
3500.00	2.45	67.61	3499.05	100.00	-43.22	43.39 S	19.25 W	47.47@	203.93	0.09
3600.00	1.96	71.04	3598.97	100.00	-41.88	42.02 S	15.66 W	44.85@	200.44	0.51
3700.00	1.65	71.17	3698.92	100.00	-40.89	41.00 S	12.68 W	42.92@	197.18	0.31
3800.00	1.24	72.97	3798.89	100.00	-40.13	40.22 S	10.28 W	41.51@	194.34	0.41
3900.00	0.87	79.74	3898.88	100.00	-39.69	39.77 S	8.50 W	40.67@	192.07	0.39
4000.00	0.89	80.66	3998.86	100.00	-39.45	39.51 S	6.99 W	40.12@	190.03	0.02
4100.00	1.11	60.97	4098.85	100.00	-38.86	38.91 S	5.38 W	39.28@	187.86	0.41
4200.00	1.09	55.75	4198.83	100.00	-37.87	37.91 S	3.74 W	38.09@	185.64	0.10
4300.00	0.68	45.10	4298.82	100.00	-36.93	36.95 S	2.54 W	37.04@	183.93	0.44
4400.00	0.71	47.92	4398.81	100.00	-36.10	36.12 S	1.66 W	36.16@	182.62	0.05
4500.00	0.79	53.42	4498.80	100.00	-35.29	35.29 S	0.64 W	35.30@	181.04	0.11
4600.00	1.57	86.62	4598.78	100.00	-34.81	34.80 S	1.28 E	34.82@	177.89	1.01
4700.00	1.89	90.16	4698.74	100.00	-34.76	34.72 S	4.30 E	34.99@	172.95	0.34
4800.00	1.87	88.17	4798.68	100.00	-34.74	34.68 S	7.58 E	35.49@	167.68	0.07
4900.00	2.72	96.52	4898.60	100.00	-34.99	34.89 S	11.56 E	36.76@	161.66	0.91
5000.00	2.91	96.55	4998.48	100.00	-35.60	35.45 S	16.44 E	39.08@	155.12	0.19
5100.00	2.19	97.44	5098.38	100.00	-36.17	35.99 S	20.86 E	41.60@	149.90	0.72
5200.00	1.70	91.01	5198.32	100.00	-36.47	36.26 S	24.24 E	43.62@	146.24	0.54

PathFinder Energy Services, Inc. Survey Report

RMR OPERATING, LLC.
MADERA 24 FED #2H
LEA COUNTY, NM
RIG WESTERN 3

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Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
5300.00	1.51	88.66	5298.28	100.00	-36.49	36.26 S	27.04 E	45.23@	143.29	0.20
5400.00	1.33	67.12	5398.25	100.00	-36.03	35.78 S	29.42 E	46.32@	140.57	0.56
5500.00	1.22	65.50	5498.23	100.00	-35.16	34.88 S	31.46 E	46.98@	137.95	0.12
5600.00	1.77	65.34	5598.19	100.00	-34.09	33.80 S	33.83 E	47.82@	134.97	0.55
5700.00	1.33	59.75	5698.16	100.00	-32.88	32.57 S	36.24 E	48.72@	131.95	0.46
5800.00	1.33	62.32	5798.13	100.00	-31.78	31.45 S	38.27 E	49.53@	129.41	0.06
5900.00	0.89	68.97	5898.11	100.00	-30.98	30.63 S	40.02 E	50.40@	127.43	0.46
6000.00	0.82	67.08	5998.10	100.00	-30.43	30.07 S	41.41 E	51.17@	125.99	0.08
6100.00	0.90	70.29	6098.09	100.00	-29.90	29.53 S	42.81 E	52.00@	124.60	0.09
6200.00	0.90	73.91	6198.08	100.00	-29.43	29.04 S	44.30 E	52.97@	123.25	0.06
6300.00	0.65	72.13	6298.07	100.00	-29.05	28.65 S	45.59 E	53.85@	122.15	0.25
6400.00	0.39	79.71	6398.06	100.00	-28.82	28.42 S	46.47 E	54.47@	121.45	0.27
6500.00	0.40	79.23	6498.06	100.00	-28.70	28.29 S	47.15 E	54.98@	120.97	0.01
6600.00	0.37	89.43	6598.06	100.00	-28.64	28.22 S	47.81 E	55.52@	120.55	0.08
6700.00	0.37	79.82	6698.06	100.00	-28.58	28.16 S	48.45 E	56.04@	120.17	0.06
6800.00	0.29	77.05	6798.05	100.00	-28.48	28.05 S	49.02 E	56.48@	119.78	0.08
6900.00	0.38	79.78	6898.05	100.00	-28.37	27.93 S	49.59 E	56.92@	119.39	0.09
7000.00	0.36	70.96	6998.05	100.00	-28.21	27.77 S	50.21 E	57.38@	118.95	0.06
7100.00	0.27	80.68	7098.05	100.00	-28.07	27.63 S	50.74 E	57.78@	118.57	0.10
7200.00	0.29	76.99	7198.05	100.00	-27.98	27.54 S	51.22 E	58.15@	118.26	0.03
7300.00	0.26	41.62	7298.05	100.00	-27.76	27.31 S	51.62 E	58.40@	117.88	0.17
7400.00	0.16	5.38	7398.05	100.00	-27.45	27.00 S	51.78 E	58.40@	117.54	0.16
7500.00	0.24	350.24	7498.05	100.00	-27.11	26.66 S	51.76 E	58.22@	117.25	0.10
7600.00	0.19	7.92	7598.05	100.00	-26.74	26.29 S	51.75 E	58.04@	116.93	0.08
7700.00	0.21	353.83	7698.04	100.00	-26.39	25.94 S	51.75 E	57.89@	116.62	0.05
7800.00	0.31	342.48	7798.04	100.00	-25.95	25.50 S	51.65 E	57.60@	116.27	0.11
7900.00	0.29	12.76	7898.04	100.00	-25.44	24.99 S	51.62 E	57.36@	115.83	0.16
8000.00	0.39	37.12	7998.04	100.00	-24.93	24.48 S	51.89 E	57.37@	115.25	0.17

PathFinder Energy Services, Inc.

Survey Report

RMR OPERATING, LLC.
MADERA 24 FED #2H
LEA COUNTY, NM
RIG:WESTERN 3

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Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft)		Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
8100.00	0.53	25.74	8098.04	100.00	-24.24	23.79 S	52.29 E	57.45@	114.46	0.17
8200.00	1.26	20.78	8198.02	100.00	-22.80	22.34 S	52.88 E	57.41@	112.90	0.73
8300.00	1.18	20.70	8298.00	100.00	-20.82	20.35 S	53.64 E	57.37@	110.78	0.08
8400.00	0.93	18.67	8397.99	100.00	-19.09	18.62 S	54.26 E	57.37@	108.94	0.25
8500.00	0.54	21.34	8497.98	100.00	-17.89	17.41 S	54.69 E	57.40@	107.66	0.39
8600.00	0.58	12.35	8597.97	100.00	-16.96	16.48 S	54.97 E	57.39@	106.69	0.10
** TIED INTO SCIENTIFIC DRILLING GYRO SURVEY @ 8651 5' MD.										
8651.50	0.56	21.52	8649.47	51.50	-16.47	15.99 S	55.12 E	57.39@	106.18	0.18
THE FOLLOWING ARE PATHFINDER MWD SURVEYS.										
8683.00	7.47	3.09	8680.87	31.50	-14.28	13.80 S	55.29 E	56.98@	104.01	22.04
8715.00	13.89	0.72	8712.30	32.00	-8.36	7.88 S	55.45 E	56.00@	98.08	20.10
8747.00	19.61	359.75	8742.93	32.00	0.86	1.34 N	55.47 E	55.49@	88.61	17.90
8779.00	24.09	359.93	8772.63	32.00	12.76	13.25 N	55.44 E	57.00@	76.56	14.00
8810.00	28.23	0.37	8800.44	31.00	26.43	26.91 N	55.48 E	61.66@	64.12	13.37
8842.00	32.36	357.91	8828.07	32.00	42.56	43.05 N	55.22 E	70.01@	52.06	13.47
8874.00	36.76	354.13	8854.42	32.00	60.67	61.14 N	53.92 E	81.52@	41.41	15.29
8905.00	41.06	354.57	8878.54	31.00	80.06	80.51 N	52.01 E	95.85@	32.86	13.90
8937.00	45.55	354.57	8901.82	32.00	101.92	102.36 N	49.94 E	113.89@	26.01	14.03
8968.00	50.47	355.71	8922.55	31.00	124.89	125.31 N	47.99 E	134.18@	20.96	16.11
9000.00	54.96	357.56	8941.93	32.00	150.31	150.72 N	46.51 E	157.73@	17.15	14.77
9032.00	58.30	359.31	8959.53	32.00	177.02	177.43 N	45.79 E	183.24@	14.47	11.39
9064.00	62.26	359.67	8975.39	32.00	204.81	205.21 N	45.54 E	210.20@	12.51	12.41
9096.00	67.36	358.96	8989.01	32.00	233.75	234.16 N	45.19 E	238.48@	10.92	16.06
9128.00	71.67	357.82	9000.20	32.00	263.72	264.11 N	44.35 E	267.81@	9.53	13.87
9159.00	72.90	356.41	9009.64	31.00	293.22	293.60 N	42.86 E	296.72@	8.31	5.87
9191.00	76.15	357.47	9018.17	32.00	324.02	324.39 N	41.22 E	327.00@	7.24	10.65
9222.00	81.95	359.05	9024.06	31.00	354.44	354.80 N	40.30 E	357.08@	6.48	19.37
9255.00	87.76	0.63	9027.02	33.00	387.29	387.65 N	40.21 E	389.73@	5.92	18.24

PathFinder Energy Services, Inc.

Survey Report

RMR OPERATING LLC
MADERA 24 FED #2H
LEA COUNTY, NM
RIG:WESTERN 3

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Measured Depth (ft)	Incl (deg)	Drift Dir (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets		Closure Dist Dir		DLS (dg/100ft)
(ft)	(deg)	(deg)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(deg)	(dg/100ft)
9287.00	88.20	0 81	9028.15	32.00	419.26	419.63 N	40.61 E	421.59@	5.53	1.49
9383.00	89.34	0 63	9030.21	96.00	515.22	515.60 N	41.81 E	517.29@	4.64	1.20
9478.00	89.43	359.93	9031.23	95.00	610.20	610.59 N	42.28 E	612.06@	3.96	0.74
9573.00	89.69	358.79	9031.96	95.00	705.20	705.58 N	41.22 E	706.79@	3.34	1.23
9668.00	89.34	357.64	9032.76	95.00	800.17	800.53 N	38.26 E	801.45@	2.74	1.27
9763.00	88.29	356.59	9034.73	95.00	895.06	895.39 N	33.48 E	896.01@	2.14	1.56
9858.00	89.25	358.79	9036.77	95.00	989.99	990.28 N	29.65 E	990.73@	1.72	2.53
9953.00	88.20	358.35	9038.88	95.00	1084.95	1085.23 N	27.28 E	1085.57@	1.44	1.20
10049.00	88.90	359.75	9041.31	96.00	1180.91	1181.18 N	25.69 E	1181.46@	1.25	1.63
10144.00	88.72	0.37	9043.28	95.00	1275.89	1276.16 N	25.79 E	1276.42@	1.16	0.68
10239.00	91.19	0.37	9043.36	95.00	1370.87	1371.15 N	26.40 E	1371.40@	1.10	2.60
10334.00	90.31	3 80	9042.11	95.00	1465.75	1466.06 N	29.86 E	1466.37@	1.17	3.73
10429.00	89.25	2.65	9042.48	95.00	1560.54	1560.91 N	35.20 E	1561.31@	1.29	1.65
10525.00	88.64	2.39	9044.24	96.00	1656.39	1656.80 N	39.42 E	1657.27@	1.36	0.69
10620.00	91.10	2 30	9044.46	95.00	1751.27	1751.71 N	43.31 E	1752.25@	1.42	2.59
10715.00	89.96	1 69	9043.58	95.00	1846.17	1846.65 N	46.62 E	1847.24@	1.45	1.36
10810.00	90.57	1 16	9043.14	95.00	1941.12	1941.62 N	48.98 E	1942.24@	1.45	0.85
10905.00	90.57	0.63	9042.20	95.00	2036.08	2036.60 N	50.46 E	2037.23@	1.42	0.56
11000.00	90.31	0.19	9041.47	95.00	2131.07	2131.60 N	51.14 E	2132.21@	1.37	0.54
11095.00	90.04	0.90	9041.18	95.00	2226.05	2226.59 N	52.05 E	2227.20@	1.34	0.80
11190.00	90.66	0.46	9040.60	95.00	2321.03	2321.58 N	53.17 E	2322.19@	1.31	0.80
11285.00	89.08	359.67	9040.81	95.00	2416.02	2416.58 N	53.28 E	2417.16@	1.26	1.86
11380.00	88.99	358.87	9042.41	95.00	2511.01	2511.56 N	52.07 E	2512.10@	1.19	0.85
11475.00	88.02	358.17	9044.89	95.00	2605.96	2606.49 N	49.62 E	2606.96@	1.09	1.26
11571.00	88.29	357.64	9047.98	96.00	2701.87	2702.38 N	46.11 E	2702.77@	0.98	0.62
11666.00	88.11	358.52	9050.97	95.00	2796.79	2797.27 N	42.93 E	2797.60@	0.88	0.94
11761.00	85.56	356.33	9056.21	95.00	2891.57	2892.02 N	38.67 E	2892.28@	0.77	3.54
11856.00	85.91	355.89	9063.28	95.00	2986.14	2986.54 N	32.24 E	2986.71@	0.62	0.59

PathFinder Energy Services, Inc.

Survey Report

RMR OPERATING, LLC
MADERA 24 FED #2H
LEA COUNTY, NM
RIG:WESTERN 3

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Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
11951.00	85.82	355.18	9070.13	95.00	3080.67	3081.00 N	24.87 E	3081.10@	0.46	0.75
12046.00	87.05	357.03	9076.03	95.00	3175.31	3175.59 N	18.43 E	3175.65@	0.33	2.33
12141.00	87.93	359.05	9080.19	95.00	3270.18	3270.44 N	15.18 E	3270.48@	0.27	2.32
12237.00	87.32	358.96	9084.17	96.00	3366.10	3366.34 N	13.52 E	3366.37@	0.23	0.64
12331.00	89.25	359.14	9086.99	94.00	3460.05	3460.28 N	11.96 E	3460.31@	0.20	2.06
12426.00	87.41	356.68	9089.75	95.00	3554.96	3555.17 N	8.50 E	3555.18@	0.14	3.23
12521.00	88.29	357.64	9093.32	95.00	3649.81	3649.98 N	3.79 E	3649.99@	0.06	1.37
12616.00	88.90	357.38	9095.65	95.00	3744.73	3744.87 N	0.33 W	3744.87@	359.99	0.70
12711.00	91.71	356.15	9095.14	95.00	3839.61	3839.70 N	5.69 W	3839.71@	359.92	3.23
12805.00	89.25	354.30	9094.36	94.00	3933.33	3933.36 N	13.52 W	3933.38@	359.80	3.27
12900.00	89.16	352.90	9095.67	95.00	4027.81	4027.76 N	24.10 W	4027.83@	359.66	1.48
12994.00	87.93	353.51	9098.06	94.00	4121.22	4121.07 N	35.22 W	4121.22@	359.51	1.46
13089.00	89.52	353.69	9100.17	95.00	4215.69	4215.45 N	45.81 W	4215.70@	359.38	1.68
13184.00	95.50	358.52	9096.01	95.00	4310.36	4310.06 N	52.26 W	4310.38@	359.31	8.09
13280.00	95.76	358.17	9086.59	96.00	4405.87	4405.56 N	55.02 W	4405.90@	359.28	0.45
13374.00	95.14	359.31	9077.67	94.00	4499.44	4499.11 N	57.08 W	4499.47@	359.27	1.38
13469.00	91.89	358.79	9071.84	95.00	4594.24	4593.91 N	58.65 W	4594.28@	359.27	3.46
13564.00	91.01	358.52	9069.44	95.00	4689.20	4688.85 N	60.88 W	4689.24@	359.26	0.97
13659.00	88.55	357.64	9069.80	95.00	4784.16	4783.79 N	64.06 W	4784.22@	359.23	2.75
13755.00	90.48	358.52	9070.62	96.00	4880.13	4879.72 N	67.28 W	4880.19@	359.21	2.21
STRAIGHT LINE PROJECTION TO BIT @ 13800' MD.										
13800.00	90.48	358.52	9070.24	45.00	4925.12	4924.71 N	68.44 W	4925.18@	359.20	0.00

** 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.