



DIRECTIONAL SURVEY REPORT

30-005-04033

YATES PETROLEUM
GRID IRON BLI FED COM #1H ST-01
CHAVES COUNTY, NEW MEXICO

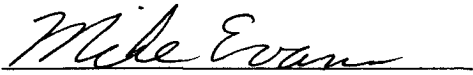
PREPARED BY: MIKE EVANS

DIRECTIONAL SURVEY COMPANY REPORT:

1. NAME OF SURVEYING COMPANY: PATHFINDER ENERGY SERVICES
2. NAME OF PERSON(S) PERFORMING SURVEY:
A) RAFAEL DONARUMMA
3. POSITION OF SAID PERSON(S): (A-F) SURVEYORS (FIELD ENGINEERS)
4. DATE(S) ON WHICH SURVEY WAS PERFORMED: 11/06/08 TO 12/22/08
5. STATE IN WHICH SURVEY WAS PERFORMED: NEW MEXICO
6. LOCATION OF WELL: CHAVES COUNTY, NM
7. TYPE OF SURVEY(S) PERFORMED: MWD
8. COMPLETE IDENTIFICATION OF WELL:

YATES PETROLEUM
GRID IRON BLI FED COM #1H ST-01
CHAVES COUNTY, NM
RIG: SILVER OAK #10
9. SURVEY CERTIFIED FROM: 3,935 TO 7,851 FEET MEASURED DEPTH.

THIS IS TO VERIFY THAT ATTACHED DOCUMENTS SHOWING THE WELL TO BE
DISPLACED AT 3109.83 FEET ON A BEARING OF 92.76 DEGREES FROM THE
CENTER OF THE ROTARY TABLE AT A PROJECTED BIT DEPTH OF 7,851 FEET,
ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.


MIKE EVANS
MWD ENGINEER

PathFinder Energy Services, Inc.

BHL Report

Page 01/01
Tie-in Date: 11/22/2008
Date Completed: 12/18/2008

YATES PETROLEUM
GRID IRON #1H-ST01
CHAVES COUNTY, NM
Rig:SILVER OAK #10
PathFinder Office Supervisor: FRANCISCO SINISTERRA
PathFinder Field Engineers:R. DONARUMMA
R. GARDNER
J.PIKE

Survey Horiz. Reference:WELLHEAD
Ref Coordinates: LAT:33.18.17.8306 N LON:104.17.9.0102 W
GRID Reference:NAD83 new mexico east Transverse Mercator
Ref GRID Coord: X: 555848.7200 Y: 838492.2830
North Aligned To:GRID NORTH
Total Magnetic Correction: 8.27° EAST TO GRID
Vertical Section Plane: 89.60
Survey Vert. Reference: 18.50' Kelly Bushing To Ground
Altitude:3748.00' Ground To MSL

Measured Depth	7851.00	(feet)
Inclination	88.81	(deg)
Azimuth	84.58	(deg)
True Vertical Depth	5290.32	(feet)
Vertical Section	3105.12	(feet)
Survey X cord	558954.94	(feet)
Survey Y cord	838342.74	(feet)
Survey Lat	33.30453763 N	(deg)
Survey Lon	104.27566936 W	(deg)
Rectangular Corr. N/S	149.51 S	(feet)
Rectangular Corr. E/W	3106.24 E	(feet)
Closure Distance	3109.83	(feet)
Direction of Closure	92.76	(deg)
Dogleg Severity	0.00	(deg/100ft)

PathFinder Energy Services, Inc.

Survey Report

YATES PETROLEUM
GRID IRON #1H-ST01
CHAVES COUNTY, NM
Rig: SILVER OAK #10
PathFinder Office Supervisor: FRANCISCO SINISTERRA
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Vertical Section Plane: 89.60
Survey Vert. Reference: 18.50' Kelly Bushing To Ground
Altitude: 3748.00' 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)	Rectangular Offsets (ft)	TOTAL (ft)	Closure Dist Dir (ft) (deg)	ΔLS (dg/100ft)
TIE IN TO SCIENTIFIC GYRO @ 3910' MD.									
3910.00	0.49	222.96	3909.77	0.00	-29.16	12.51 N	29.25 W	31.81@ 293.16	0.00
3935.00	0.88	227.42	3934.77	25.00	-29.38	12.30 N	29.46 W	31.93@ 292.66	1.57
3967.00	0.62	176.82	3966.77	32.00	-29.55	11.96 N	29.64 W	31.96@ 291.98	2.13
3999.00	0.79	125.83	3998.76	32.00	-29.36	11.66 N	29.45 W	31.67@ 291.60	1.96
4030.00	2.37	125.01	4029.75	31.00	-28.67	11.17 N	28.75 W	30.84@ 291.23	5.10
4061.00	4.92	134.95	4060.69	31.00	-27.21	9.86 N	27.28 W	29.01@ 289.87	8.44
4093.00	7.74	139.79	4092.49	32.00	-24.87	7.25 N	24.92 W	25.95@ 286.21	8.96
4124.00	10.82	140.15	4123.08	31.00	-21.68	3.42 N	21.71 W	21.97@ 278.94	9.94
4156.00	12.93	147.15	4154.39	32.00	-17.85	1.90 S	17.84 W	17.94@ 263.93	7.97
4188.00	13.89	146.62	4185.52	32.00	-13.84	8.11 S	13.78 W	15.99@ 239.52	3.02
4219.00	15.48	145.63	4215.51	31.00	-9.50	14.64 S	9.40 W	17.40@ 212.71	5.19
4251.00	17.15	142.13	4246.22	32.00	-4.25	21.89 S	4.09 W	22.27@ 190.59	6.05
4283.00	18.64	140.33	4276.67	32.00	1.86	29.55 S	2.07 E	29.62@ 176.00	4.97
4315.00	19.87	137.63	4306.88	32.00	8.74	37.50 S	9.00 E	38.57@ 166.51	4.74
4346.00	21.54	135.05	4335.88	31.00	16.25	45.42 S	16.57 E	48.35@ 159.96	6.14
4378.00	22.42	131.96	4365.55	32.00	24.88	53.66 S	25.26 E	59.31@ 154.79	4.54
4410.00	23.21	130.40	4395.05	32.00	34.16	61.83 S	34.60 E	70.85@ 150.77	3.11
4441.00	24.09	127.75	4423.44	31.00	43.76	69.66 S	44.25 E	82.53@ 147.57	4.45
4473.00	25.68	124.12	4452.47	32.00	54.61	77.55 S	55.16 E	95.16@ 144.58	6.89
4505.00	26.73	121.64	4481.19	32.00	66.43	85.21 S	67.02 E	108.41@ 141.81	4.74
4537.00	28.23	119.15	4509.58	32.00	79.11	92.68 S	79.76 E	122.27@ 139.28	5.90
4569.00	29.99	117.63	4537.53	32.00	92.76	100.07 S	93.46 E	136.93@ 136.96	5.97
4600.00	30.60	115.09	4564.30	31.00	106.72	107.01 S	107.47 E	151.66@ 134.88	4.58

THE FOLLOWING ARE PATHFINDER SURVEYS.

PathFinder Energy Services, Inc.

Survey Report

YATES PETROLEUM
GRID IRON #1H-ST01
CHAVES COUNTY, NM
RIG:SILVER OAK #10

Page 02/05

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)
4632.00	30.78	113.97	4591.82	32.00	121.53	113.79 S 122.33 E	167.07@ 132.93	1.87
4664.00	30.95	113.10	4619.29	32.00	136.53	120.35 S 137.38 E	182.64@ 131.22	1.49
4695.00	32.27	112.26	4645.69	31.00	151.48	126.61 S 152.37 E	198.11@ 129.72	4.49
4727.00	33.94	111.27	4672.49	32.00	167.67	133.09 S 168.60 E	214.80@ 128.29	5.49
4759.00	35.09	110.34	4698.86	32.00	184.57	139.52 S 185.55 E	232.16@ 126.94	3.95
4790.00	36.14	109.20	4724.06	31.00	201.52	145.63 S 202.54 E	249.46@ 125.72	4.01
4822.00	37.20	108.24	4749.73	32.00	219.57	151.76 S 220.64 E	267.79@ 124.52	3.77
4854.00	39.04	107.07	4774.90	32.00	238.36	157.75 S 239.46 E	286.75@ 123.37	6.18
4885.00	40.45	105.60	4798.74	31.00	257.34	163.32 S 258.48 E	305.75@ 122.29	5.47
4917.00	42.03	104.36	4822.80	32.00	277.67	168.76 S 278.86 E	325.95@ 121.18	5.56
4949.00	44.05	103.64	4846.19	32.00	298.83	174.05 S 300.05 E	346.87@ 120.12	6.50
4981.00	46.34	102.67	4868.74	32.00	320.90	179.21 S 322.16 E	368.65@ 119.09	7.47
5013.00	48.72	101.47	4890.34	32.00	343.94	184.14 S 345.24 E	391.28@ 118.07	7.94
5044.00	49.95	100.58	4910.54	31.00	366.99	188.63 S 368.32 E	413.81@ 117.12	4.53
5076.00	50.74	99.10	4930.96	32.00	391.24	192.84 S 392.59 E	437.40@ 116.16	4.33
5108.00	51.88	97.56	4950.97	32.00	415.92	196.46 S 417.30 E	461.24@ 115.21	5.18
5139.00	54.43	97.21	4969.55	31.00	440.50	199.64 S 441.90 E	484.91@ 114.31	8.28
5171.00	57.68	97.22	4987.42	32.00	466.81	202.98 S 468.24 E	510.34@ 113.44	10.16
5203.00	58.21	96.77	5004.40	32.00	493.70	206.28 S 495.16 E	536.41@ 112.62	2.04
5234.00	59.44	96.75	5020.45	31.00	520.02	209.40 S 521.50 E	561.97@ 111.88	3.97
5266.00	62.26	95.99	5036.04	32.00	547.77	212.50 S 549.27 E	588.94@ 111.15	9.05
5298.00	63.66	95.53	5050.58	32.00	576.11	215.36 S 577.62 E	616.47@ 110.45	4.56
5330.00	66.30	94.94	5064.12	32.00	604.96	218.00 S 606.50 E	644.49@ 109.77	8.42
5362.00	69.29	94.32	5076.21	32.00	634.47	220.39 S 636.02 E	673.13@ 109.11	9.51
5393.00	71.49	93.81	5086.61	31.00	663.58	222.46 S 665.15 E	701.37@ 108.49	7.26
5425.00	73.69	93.38	5096.19	32.00	694.04	224.38 S 695.62 E	730.92@ 107.88	6.99
5457.00	75.71	93.54	5104.63	32.00	724.83	226.24 S 726.43 E	760.85@ 107.30	6.33
5488.00	77.47	91.56	5111.82	31.00	754.95	227.58 S 756.55 E	790.04@ 106.74	8.42
5520.00	79.58	91.08	5118.19	32.00	786.29	228.30 S 787.90 E	820.31@ 106.16	6.75
5552.00	82.13	90.99	5123.27	32.00	817.87	228.87 S 819.49 E	850.85@ 105.60	7.97

PathFinder Energy Services, Inc.

Survey Report

YATES PETROLEUM
GRID IRON #1H-ST01
CHAVES COUNTY, NM
RIG:SILVER OAK #10

Page 03/05

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)
5583.00	85.12	91.35	5126.71	31.00	848.66	229.50 S 850.29 E	880.72@ 105.10	9.71
5615.00	87.93	91.54	5128.65	32.00	880.59	230.31 S 882.22 E	911.78@ 104.63	8.80
5647.00	89.43	92.12	5129.39	32.00	912.55	231.33 S 914.19 E	943.00@ 104.20	5.03
5679.00	89.96	92.31	5129.56	32.00	944.52	232.57 S 946.17 E	974.33@ 103.81	1.76
5711.00	89.43	91.78	5129.73	32.00	976.49	233.71 S 978.14 E	1005.68@ 103.44	2.34
5742.00	87.93	90.18	5130.45	31.00	1007.47	234.24 S 1009.13 E	1035.96@ 103.07	7.07
5774.00	87.85	89.79	5131.62	32.00	1039.45	234.23 S 1041.11 E	1067.13@ 102.68	1.24
5806.00	88.11	90.57	5132.75	32.00	1071.43	234.33 S 1073.09 E	1098.37@ 102.32	2.57
5838.00	88.37	90.53	5133.73	32.00	1103.41	234.64 S 1105.07 E	1129.71@ 101.99	0.82
5869.00	86.61	90.08	5135.09	31.00	1134.37	234.80 S 1136.04 E	1160.05@ 101.68	5.86
5901.00	85.91	90.10	5137.18	32.00	1166.30	234.85 S 1167.97 E	1191.35@ 101.37	2.19
5933.00	85.47	89.82	5139.58	32.00	1198.21	234.83 S 1199.88 E	1222.64@ 101.07	1.63
5965.00	84.86	88.78	5142.28	32.00	1230.10	234.44 S 1231.76 E	1253.87@ 100.78	3.76
5997.00	85.12	88.76	5145.08	32.00	1261.97	233.76 S 1263.63 E	1285.07@ 100.48	0.82
6023.00	85.30	88.94	5147.25	26.00	1287.88	233.24 S 1289.54 E	1310.46@ 100.25	0.98
6133.00	84.33	90.58	5157.19	110.00	1397.42	232.78 S 1399.08 E	1418.31@ 99.45	1.73
6165.00	83.36	90.09	5160.62	32.00	1429.23	232.96 S 1430.90 E	1449.74@ 99.25	3.39
6197.00	81.60	89.50	5164.81	32.00	1460.96	232.85 S 1462.62 E	1481.04@ 99.05	5.80
6229.00	81.60	89.07	5169.48	32.00	1492.61	232.45 S 1494.27 E	1512.25@ 98.84	1.33
6261.00	82.66	88.92	5173.86	32.00	1524.31	231.90 S 1525.97 E	1543.49@ 98.64	3.34
6293.00	84.94	89.24	5177.32	32.00	1556.12	231.39 S 1557.77 E	1574.86@ 98.45	7.19
6325.00	83.89	88.58	5180.43	32.00	1587.96	230.78 S 1589.61 E	1606.28@ 98.26	3.87
6357.00	84.33	88.40	5183.72	32.00	1619.79	229.94 S 1621.43 E	1637.66@ 98.07	1.48
6389.00	85.82	88.98	5186.46	32.00	1651.67	229.21 S 1653.31 E	1669.12@ 97.89	4.99
6421.00	86.00	89.05	5188.75	32.00	1683.58	228.66 S 1685.22 E	1700.66@ 97.73	0.60
6453.00	86.35	88.71	5190.88	32.00	1715.51	228.04 S 1717.14 E	1732.22@ 97.56	1.52
6485.00	86.26	89.11	5192.94	32.00	1747.44	227.43 S 1749.07 E	1763.80@ 97.41	1.28
6516.00	85.65	88.83	5195.13	31.00	1778.36	226.88 S 1779.99 E	1794.39@ 97.26	2.16
6549.00	86.35	89.01	5197.43	33.00	1811.28	226.26 S 1812.90 E	1826.97@ 97.11	2.19
6581.00	88.64	89.09	5198.83	32.00	1843.24	225.73 S 1844.87 E	1858.62@ 96.98	7.16

PathFinder Energy Services, Inc.

Survey Report

YATES PETROLEUM
GRID IRON #1H-ST01
CHAVES COUNTY, NM
RIG-SILVER OAK #10

Page 04/05

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)
6613.00	87.93	88.62	5199.79	32.00	1875.23	225.09 S 1876.84 E	1890.29@ 96.84	2.66
6645.00	88.90	88.48	5200.67	32.00	1907.21	224.28 S 1908.82 E	1921.95@ 96.70	3.06
6676.00	88.02	88.36	5201.51	31.00	1938.19	223.42 S 1939.80 E	1952.62@ 96.57	2.87
6708.00	88.81	88.92	5202.39	32.00	1970.17	222.66 S 1971.78 E	1984.31@ 96.44	3.03
6740.00	88.20	90.06	5203.23	32.00	2002.16	222.38 S 2003.76 E	2016.07@ 96.33	4.04
6772.00	87.05	91.03	5204.55	32.00	2034.13	222.68 S 2035.73 E	2047.88@ 96.24	4.70
6804.00	85.38	91.39	5206.66	32.00	2066.05	223.36 S 2067.66 E	2079.68@ 96.17	5.34
6836.00	83.54	90.99	5209.75	32.00	2097.88	224.02 S 2099.50 E	2111.42@ 96.09	5.88
6868.00	82.57	90.62	5213.62	32.00	2129.64	224.47 S 2131.26 E	2143.05@ 96.01	3.24
6900.00	81.34	90.06	5218.10	32.00	2161.32	224.65 S 2162.94 E	2174.58@ 95.93	4.22
6932.00	81.25	89.78	5222.94	32.00	2192.95	224.61 S 2194.57 E	2206.04@ 95.84	0.91
6964.00	80.99	88.89	5227.88	32.00	2224.57	224.24 S 2226.19 E	2237.45@ 95.75	2.87
6996.00	80.90	88.37	5232.92	32.00	2256.17	223.49 S 2257.78 E	2268.81@ 95.65	1.63
7028.00	80.55	88.32	5238.08	32.00	2287.74	222.58 S 2289.35 E	2300.14@ 95.55	1.10
7059.00	80.28	87.94	5243.24	31.00	2318.30	221.58 S 2319.90 E	2330.46@ 95.46	1.49
7091.00	81.07	87.16	5248.43	32.00	2349.85	220.23 S 2351.45 E	2361.74@ 95.35	3.45
7123.00	81.69	85.81	5253.22	32.00	2381.44	218.29 S 2383.03 E	2393.00@ 95.23	4.60
7155.00	82.75	85.03	5257.55	32.00	2413.06	215.76 S 2414.63 E	2424.25@ 95.11	4.10
7187.00	82.83	84.87	5261.57	32.00	2444.71	212.96 S 2446.25 E	2455.51@ 94.98	0.56
7219.00	83.80	84.64	5265.29	32.00	2476.37	210.06 S 2477.90 E	2486.79@ 94.85	3.11
7251.00	84.33	84.53	5268.60	32.00	2508.08	207.05 S 2509.59 E	2518.11@ 94.72	1.69
7283.00	84.94	84.17	5271.60	32.00	2539.81	203.92 S 2541.29 E	2549.46@ 94.59	2.21
7315.00	85.12	84.31	5274.37	32.00	2571.55	200.72 S 2573.01 E	2580.83@ 94.46	0.71
7347.00	86.35	84.07	5276.75	32.00	2603.32	197.49 S 2604.76 E	2612.23@ 94.34	3.92
7379.00	86.70	84.19	5278.69	32.00	2635.11	194.22 S 2636.53 E	2643.68@ 94.21	1.16
7411.00	87.93	84.56	5280.19	32.00	2666.94	191.09 S 2668.34 E	2675.18@ 94.10	4.01
7443.00	88.46	84.82	5281.19	32.00	2698.81	188.13 S 2700.19 E	2706.73@ 93.99	1.84
7506.00	88.20	84.72	5283.03	63.00	2761.56	182.39 S 2762.90 E	2768.91@ 93.78	0.44
7569.00	87.93	84.63	5285.16	63.00	2824.29	176.54 S 2825.59 E	2831.10@ 93.58	0.45
7601.00	88.20	84.52	5286.24	32.00	2856.15	173.52 S 2857.43 E	2862.69@ 93.48	0.91

PathFinder Energy Services, Inc.

Survey Report

YATES PETROLEUM
GRID IRON #1H-ST01
CHAVES COUNTY, NM
RIG:SILVER OAK #10

Page 05/05

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)
7695.00	89.78	84.37	5287.89	94.00	2949.75	164.42 S 2950.97 E	2955.55@ 93.19	1.69
7791.00	88.81	84.58	5289.08	96.00	3045.36	155.18 S 3046.52 E	3050.47@ 92.92	1.03
7851.00	88.81	84.58	5290.32	60.00	3105.12	149.51 S 3106.24 E	3109.83@ 92.76	0.00

STRAIGHT LINE PROJECTION TO BIT @ 7851' MD.

S C I E N T I F I C D R I L L I N G C O N T R O L S

KEEPER GYRO SURVEY

Directional Survey Report

for

YATES PETROLEUM

Well Number	:	GRID IRON "BLI" FED COM NO.1H
Well Location	:	CHAVEZ COUNTY, NEW MEXICO
Job Number	:	32K1105878
Location Latitude	:	33.305
Survey Date	:	5-NOV-2008
S.D.C. Personnel	:	VICTOR MELENDEZ JR.
Length Units	:	Feet
North Reference	:	GRID North
Grid Correction	:	-0.03 Degrees
Survey Depth Zero	:	RKB
Proposal Direction	:	89.60
Calculation Method	:	Minimum Curvature

Remarks : The OUTRUN Survey will be called definitive

S C I E N T I F I C D R I L L I N G C O N T R O L S

Outrun Survey
for
YATES PETROLEUM

Page 1

Well No.: GRID IRON "BLI" FED CO

Date : 5-NOV-2008

Job No. : 32K1105878

GRID

Proposal : 89.60

Depth (Feet)	T.V.D. (Feet)	V.S. (Feet)	Inc Deg.	Azimuth Deg.	Latitude (Feet)	Departure (Feet)	D-leg /100
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0.00	0.00	0.00	0.00	359.97	0.00	0.00	0.00
100.00	100.00	-0.01	0.07	193.04	-0.06	-0.01	0.07
200.00	200.00	0.14	0.20	77.65	-0.08	0.14	0.24
300.00	300.00	0.48	0.24	51.39	0.09	0.48	0.11
400.00	400.00	0.41	0.45	323.96	0.54	0.41	0.50
500.00	500.00	0.16	0.06	213.30	0.81	0.15	0.47
600.00	599.99	0.43	0.56	37.58	1.15	0.42	0.62
700.00	699.99	0.75	0.56	2.35	2.03	0.74	0.34
800.00	799.99	0.56	0.33	310.05	2.70	0.54	0.44
900.00	899.99	0.44	0.13	110.61	2.85	0.42	0.45
1000.00	999.98	0.15	0.46	274.83	2.84	0.13	0.59
1100.00	1099.98	-0.50	0.45	320.37	3.18	-0.52	0.35
1200.00	1199.98	-0.87	0.22	319.91	3.63	-0.90	0.23
1300.00	1299.98	-1.25	0.36	305.21	3.95	-1.28	0.16
1400.00	1399.97	-1.80	0.40	302.31	4.32	-1.83	0.04
1500.00	1499.97	-2.53	0.51	281.31	4.59	-2.56	0.20
1600.00	1599.96	-3.67	0.86	287.89	4.91	-3.71	0.36
1700.00	1699.95	-4.94	0.89	314.64	5.69	-4.98	0.41
1800.00	1799.94	-5.96	0.56	284.06	6.35	-6.00	0.50
1900.00	1899.93	-7.07	0.97	310.61	7.02	-7.12	0.53
2000.00	1999.92	-8.50	1.17	308.55	8.21	-8.56	0.20
2100.00	2099.90	-10.16	1.22	305.47	9.46	-10.23	0.08
2200.00	2199.87	-12.01	1.31	299.81	10.65	-12.09	0.15
2300.00	2299.85	-13.58	0.75	297.58	11.52	-13.66	0.56
2400.00	2399.84	-15.02	1.10	295.35	12.24	-15.11	0.35
2500.00	2499.83	-16.35	0.53	267.24	12.62	-16.43	0.68
2600.00	2599.82	-17.23	0.64	310.53	12.96	-17.32	0.44
2700.00	2699.82	-18.04	0.45	266.55	13.30	-18.14	0.44
2800.00	2799.82	-18.85	0.60	307.74	13.60	-18.94	0.40
2900.00	2899.81	-19.48	0.25	272.54	13.93	-19.57	0.42
3000.00	2999.81	-20.10	0.60	308.64	14.27	-20.20	0.42
3100.00	3099.80	-21.02	0.59	269.96	14.60	-21.13	0.39
3200.00	3199.80	-22.11	0.66	270.74	14.60	-22.22	0.07
3300.00	3299.79	-23.05	0.41	265.99	14.59	-23.15	0.25
3400.00	3399.79	-23.78	0.43	277.77	14.62	-23.88	0.08
3500.00	3499.78	-24.77	0.73	255.54	14.51	-24.87	0.37
3600.00	3599.78	-25.83	0.61	237.25	14.07	-25.93	0.24
3700.00	3699.77	-26.98	0.81	260.22	13.66	-27.08	0.34
3800.00	3799.76	-28.14	0.61	239.56	13.27	-28.23	0.32
3900.00	3899.76	-29.09	0.73	229.59	12.59	-29.18	0.17

S C I E N T I F I C D R I L L I N G C O N T R O L S

Outrun Survey

for

YATES PETROLEUM

Page 2

Well No.: GRID IRON "BLI" FED CO

Date : 5-NOV-2008

Job No. : 32K1105878

GRID

Proposal : 89.60

Depth	T.V.D.	V.S.	Inc	Azimuth	Latitude	Departure	D-leg
(Feet)	(Feet)	(Feet)	Deg.	Deg.	(Feet)	(Feet)	/100

3910.00	3909.76	-29.16	0.49	222.96	12.51	-29.25	2.50
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The Horizontal Displacement (in Feet) at
Measured Depth 3910.00 is 31.82 in a Direction of 293.16 Degrees