



An Operating Unit of Smith International, Inc.

## ***DIRECTIONAL SURVEY REPORT***

**YATES PETROLEUM**

***BONBON BNN STATE COM #1H***

***EDDY COUNTY, NEW MEXICO***

**PREPARED BY: FRANCISCO SINISTERRA**

Pathfinder Energy Services, Inc.  
6213 W. Interstate 20 • Midland, TX • 79706  
(432) 681-6000

DIRECTIONAL SURVEY COMPANY REPORT:

1. NAME OF SURVEYING COMPANY: PATHFINDER ENERGY SERVICES
2. NAME OF PERSON(S) PERFORMING SURVEY:  
A) BRYANT BLAKEMORE
3. POSITION OF SAID PERSON(S): (A-F) SURVEYORS (FIELD ENGINEERS)
4. DATE(S) ON WHICH SURVEY WAS PERFORMED: 03/05/10 TO 03/13/10
5. STATE IN WHICH SURVEY WAS PERFORMED: NEW MEXICO
6. LOCATION OF WELL: EDDY COUNTY
7. TYPE OF SURVEY(S) PERFORMED: MWD
8. COMPLETE IDENTIFICATION OF WELL:

YATES PETROLEUM  
BONBON BNN STATE COM #1H  
EDDY COUNTY, NM  
RIG: PATRIOT #5

9. SURVEY CERTIFIED FROM: 6128 TO 11015 FEET MEASURED DEPTH.

THIS IS TO VERIFY THAT ATTACHED DOCUMENTS SHOWING THE WELL TO BE DISPLACED AT 4670.18 FEET ON A BEARING OF 89.13 DEGREES FROM THE CENTER OF THE ROTARY TABLE AT A PROJECTED BIT DEPTH OF 11094 FEET, ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.

  
FRANCISCO SINISTERRA  
MWD COORDINATOR

# PathFinder Energy Services, Inc.

## BHL Report

Page 01/01  
Tie-In Date: 02/21/2010  
Date Completed: 03/13/2010

YATES PETROLEUM CORPORATION  
BONBON BNN STATE COM #1H  
EDDY COUNTY, NEW MEXICO  
Rig: PATRIOT #5  
PathFinder Office Supervisor: FRANCISCO SINISTERRA  
PathFinder Field Engineers: BRYANT BLAKEMORE  
MATT SHIPP

Survey Horiz. Reference: WELLHEAD  
Ref Coordinates: LAT: 32.5428139 N LON: 104.4568695 W  
GRID Reference: NAD83 new mexico east Transverse Mercator  
Ref GRID Coord: X: 619023.7070 Y: 398470.3690  
North Aligned To: GRID NORTH  
Total Magnetic Correction: 7.84° EAST TO GRID  
Vertical Section Plane: 89.53  
Survey Vert. Reference: 28.00' Drill Floor To Ground  
Altitude: 2946.00' Ground To MSL

|                       |                |             |
|-----------------------|----------------|-------------|
| Measured Depth        | 11094.00       | (feet)      |
| Inclination           | 88.55          | (deg)       |
| Azimuth               | 87.34          | (deg)       |
| True Vertical Depth   | 6685.86        | (feet)      |
| Vertical Section      | 4670.07        | (feet)      |
| Survey X cord         | 623693.35      | (feet)      |
| Survey Y cord         | 398540.98      | (feet)      |
| Survey Lat            | 32.09538942 N  | (deg)       |
| Survey Lon            | 104.06738377 W | (deg)       |
| Rectangular Corr. N/S | 70.61 N        | (feet)      |
| Rectangular Corr. E/W | 4669.65 E      | (feet)      |
| Closure Distance      | 4670.18        | (feet)      |
| Direction of Closure  | 89.13          | (deg)       |
| Dogleg Severity       | 0.00           | (deg/100ft) |

## PathFinder Energy Services, Inc.

## Survey Report

YATES PETROLEUM CORPORATION

BONBON BNN STATE COM #1H

EDDY COUNTY, NEW MEXICO

Rig: PATRIOT #5

PathFinder Office Supervisor: FRANCISCO SINISTERRA

PathFinder Field Engineers: BRYANT BLAKEMORE

MATT SHIPP

Survey Horiz. Reference: WELLHEAD

Ref Coordinates: LAT: 32.542.8139 N LON: 104.456.8695 W

GRID Reference: NAD83 new mexico east Transverse Mercator

Ref GRID Coord: X: 619023.7070 Y: 398470.3690

North Aligned To: GRID NORTH

Total Magnetic Correction: 7.84° EAST TO GRID

Vertical Section Plane: 89.53

Survey Vert. Reference: 28.00' Drill Floor To Ground

Altitude: 2946.00' Ground To MSL

Survey Calculations by RX5 V6.02B using Minimum Curvature

| Measured<br>Depth<br>(ft)                 | Incl<br>(deg) | Drift<br>Dir.<br>(deg) | TVD<br>(ft) | Course<br>Length<br>(ft) | Vertical<br>Section<br>(ft) | TOTAL<br>Rectangular Offsets<br>(ft) (ft) |          | Closure<br>Dist Dir<br>(ft) (deg) |        | DLS<br>(dg/100ft) |
|-------------------------------------------|---------------|------------------------|-------------|--------------------------|-----------------------------|-------------------------------------------|----------|-----------------------------------|--------|-------------------|
| TIE IN TO GYRO SURVEY @ 6000' MD.         |               |                        |             |                          |                             |                                           |          |                                   |        |                   |
| 6000.00                                   | 1.25          | 178.42                 | 5999.33     | 0.00                     | 5.74                        | 26.21 S                                   | 5.96 E   | 26.88@                            | 167.19 | 0.00              |
| THE FOLLOWING ARE PATHFINDER MWD SURVEYS. |               |                        |             |                          |                             |                                           |          |                                   |        |                   |
| 6128.00                                   | 1.23          | 226.70                 | 6127.30     | 128.00                   | 4.76                        | 28.55 S                                   | 5.00 E   | 28.98@                            | 170.07 | 0.79              |
| 6160.00                                   | 1.76          | 78.38                  | 6159.30     | 32.00                    | 4.99                        | 28.68 S                                   | 5.23 E   | 29.16@                            | 169.67 | 9.00              |
| 6191.00                                   | 6.60          | 81.94                  | 6190.21     | 31.00                    | 7.23                        | 28.34 S                                   | 7.46 E   | 29.30@                            | 165.25 | 15.63             |
| 6223.00                                   | 11.34         | 83.43                  | 6221.81     | 32.00                    | 12.18                       | 27.72 S                                   | 12.41 E  | 30.37@                            | 155.88 | 14.83             |
| 6255.00                                   | 15.92         | 84.61                  | 6252.90     | 32.00                    | 19.69                       | 26.95 S                                   | 19.91 E  | 33.50@                            | 143.54 | 14.34             |
| 6287.00                                   | 19.35         | 84.51                  | 6283.39     | 32.00                    | 29.34                       | 26.03 S                                   | 29.56 E  | 39.39@                            | 131.37 | 10.72             |
| 6318.00                                   | 23.13         | 86.82                  | 6312.28     | 31.00                    | 40.55                       | 25.20 S                                   | 40.75 E  | 47.92@                            | 121.73 | 12.49             |
| 6350.00                                   | 26.56         | 86.85                  | 6341.31     | 32.00                    | 53.97                       | 24.46 S                                   | 54.18 E  | 59.44@                            | 114.30 | 10.72             |
| 6382.00                                   | 30.25         | 89.10                  | 6369.46     | 32.00                    | 69.19                       | 23.94 S                                   | 69.39 E  | 73.40@                            | 109.03 | 12.00             |
| 6413.00                                   | 32.71         | 89.19                  | 6395.89     | 31.00                    | 85.37                       | 23.70 S                                   | 85.57 E  | 88.79@                            | 105.48 | 7.94              |
| 6445.00                                   | 35.17         | 90.30                  | 6422.44     | 32.00                    | 103.24                      | 23.62 S                                   | 103.44 E | 106.10@                           | 102.86 | 7.93              |
| 6477.00                                   | 37.20         | 91.53                  | 6448.26     | 32.00                    | 122.12                      | 23.93 S                                   | 122.32 E | 124.64@                           | 101.07 | 6.74              |
| 6508.00                                   | 40.27         | 91.89                  | 6472.44     | 31.00                    | 141.50                      | 24.51 S                                   | 141.71 E | 143.81@                           | 99.81  | 9.93              |
| 6540.00                                   | 43.97         | 92.40                  | 6496.17     | 32.00                    | 162.94                      | 25.32 S                                   | 163.15 E | 165.10@                           | 98.82  | 11.61             |
| 6572.00                                   | 47.40         | 91.55                  | 6518.53     | 32.00                    | 185.81                      | 26.10 S                                   | 186.03 E | 187.85@                           | 97.99  | 10.89             |
| 6603.00                                   | 49.95         | 90.44                  | 6539.00     | 31.00                    | 209.08                      | 26.50 S                                   | 209.31 E | 210.98@                           | 97.22  | 8.65              |
| 6635.00                                   | 53.29         | 89.40                  | 6558.86     | 32.00                    | 234.16                      | 26.46 S                                   | 234.39 E | 235.88@                           | 96.44  | 10.74             |
| 6667.00                                   | 56.98         | 87.95                  | 6577.15     | 32.00                    | 260.41                      | 25.84 S                                   | 260.63 E | 261.91@                           | 95.66  | 12.11             |
| 6698.00                                   | 60.59         | 87.27                  | 6593.22     | 31.00                    | 286.90                      | 24.74 S                                   | 287.11 E | 288.18@                           | 94.92  | 11.80             |
| 6730.00                                   | 64.98         | 87.11                  | 6607.85     | 32.00                    | 315.33                      | 23.34 S                                   | 315.53 E | 316.39@                           | 94.23  | 13.73             |
| 6762.00                                   | 70.00         | 87.53                  | 6620.09     | 32.00                    | 344.86                      | 21.96 S                                   | 345.05 E | 345.75@                           | 93.64  | 15.73             |
| 6794.00                                   | 75.01         | 87.99                  | 6629.71     | 32.00                    | 375.35                      | 20.77 S                                   | 375.54 E | 376.11@                           | 93.17  | 15.72             |
| 6858.00                                   | 86.17         | 90.36                  | 6640.16     | 64.00                    | 438.39                      | 19.88 S                                   | 438.57 E | 439.02@                           | 92.60  | 17.81             |

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## Survey Report

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BONBON BNN STATE COM #1H  
EDDY COUNTY, NEW MEXICO  
RIG:PATRIOT #5

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| Measured<br>Depth<br>(ft) | Incl<br>(deg) | Drift<br>Dir.<br>(deg) | TVD<br>(ft) | Course<br>Length<br>(ft) | Vertical<br>Section<br>(ft) | TOTAL<br>Rectangular Offsets<br>(ft) (ft) |           | Closure<br>Dist Dir<br>(ft) (deg) |       | DLS<br>(dg/100ft) |
|---------------------------|---------------|------------------------|-------------|--------------------------|-----------------------------|-------------------------------------------|-----------|-----------------------------------|-------|-------------------|
| 6890.00                   | 88.20         | 91.76                  | 6641.73     | 32.00                    | 470.34                      | 20.48 S                                   | 470.52 E  | 470.96@                           | 92.49 | 7.70              |
| 6985.00                   | 88.02         | 92.01                  | 6644.86     | 95.00                    | 565.20                      | 23.60 S                                   | 565.42 E  | 565.91@                           | 92.39 | 0.32              |
| 7080.00                   | 88.90         | 91.42                  | 6647.42     | 95.00                    | 660.10                      | 26.44 S                                   | 660.34 E  | 660.87@                           | 92.29 | 1.12              |
| 7175.00                   | 88.99         | 92.14                  | 6649.17     | 95.00                    | 755.01                      | 29.39 S                                   | 755.27 E  | 755.85@                           | 92.23 | 0.76              |
| 7269.00                   | 89.60         | 89.11                  | 6650.32     | 94.00                    | 848.97                      | 30.42 S                                   | 849.25 E  | 849.79@                           | 92.05 | 3.29              |
| 7365.00                   | 90.22         | 90.43                  | 6650.47     | 96.00                    | 944.97                      | 30.03 S                                   | 945.25 E  | 945.72@                           | 91.82 | 1.52              |
| 7460.00                   | 89.96         | 90.54                  | 6650.32     | 95.00                    | 1039.96                     | 30.83 S                                   | 1040.24 E | 1040.70@                          | 91.70 | 0.30              |
| 7555.00                   | 88.90         | 88.25                  | 6651.27     | 95.00                    | 1134.94                     | 29.83 S                                   | 1135.23 E | 1135.62@                          | 91.51 | 2.66              |
| 7650.00                   | 88.29         | 87.33                  | 6653.60     | 95.00                    | 1229.87                     | 26.17 S                                   | 1230.13 E | 1230.40@                          | 91.22 | 1.16              |
| 7745.00                   | 88.55         | 85.66                  | 6656.22     | 95.00                    | 1324.70                     | 20.36 S                                   | 1324.91 E | 1325.06@                          | 90.88 | 1.78              |
| 7840.00                   | 91.98         | 87.93                  | 6655.78     | 95.00                    | 1419.57                     | 15.05 S                                   | 1419.74 E | 1419.82@                          | 90.61 | 4.33              |
| 7935.00                   | 90.66         | 86.69                  | 6653.59     | 95.00                    | 1514.47                     | 10.60 S                                   | 1514.60 E | 1514.64@                          | 90.40 | 1.91              |
| 8030.00                   | 87.76         | 87.58                  | 6654.90     | 95.00                    | 1609.36                     | 5.85 S                                    | 1609.47 E | 1609.48@                          | 90.21 | 3.19              |
| 8125.00                   | 88.11         | 87.97                  | 6658.32     | 95.00                    | 1704.26                     | 2.16 S                                    | 1704.33 E | 1704.33@                          | 90.07 | 0.55              |
| 8220.00                   | 88.46         | 87.01                  | 6661.17     | 95.00                    | 1799.15                     | 2.00 N                                    | 1799.20 E | 1799.20@                          | 89.94 | 1.08              |
| 8315.00                   | 88.11         | 84.20                  | 6664.01     | 95.00                    | 1893.88                     | 9.27 N                                    | 1893.87 E | 1893.89@                          | 89.72 | 2.98              |
| 8410.00                   | 91.45         | 88.47                  | 6664.38     | 95.00                    | 1988.69                     | 15.34 N                                   | 1988.63 E | 1988.69@                          | 89.56 | 5.71              |
| 8506.00                   | 88.99         | 91.38                  | 6664.01     | 96.00                    | 2084.67                     | 15.47 N                                   | 2084.62 E | 2084.67@                          | 89.57 | 3.97              |
| 8601.00                   | 90.84         | 90.05                  | 6664.15     | 95.00                    | 2179.65                     | 14.28 N                                   | 2179.60 E | 2179.65@                          | 89.62 | 2.40              |
| 8696.00                   | 89.69         | 91.89                  | 6663.71     | 95.00                    | 2274.61                     | 12.67 N                                   | 2274.58 E | 2274.62@                          | 89.68 | 2.28              |
| 8791.00                   | 92.77         | 90.79                  | 6661.67     | 95.00                    | 2369.53                     | 10.45 N                                   | 2369.52 E | 2369.55@                          | 89.75 | 3.44              |
| 8886.00                   | 92.24         | 91.12                  | 6657.52     | 95.00                    | 2464.41                     | 8.87 N                                    | 2464.42 E | 2464.43@                          | 89.79 | 0.66              |
| 8982.00                   | 90.66         | 91.41                  | 6655.09     | 96.00                    | 2560.33                     | 6.75 N                                    | 2560.36 E | 2560.37@                          | 89.85 | 1.67              |
| 9076.00                   | 86.79         | 91.26                  | 6657.18     | 94.00                    | 2654.24                     | 4.56 N                                    | 2654.29 E | 2654.30@                          | 89.90 | 4.12              |
| 9172.00                   | 87.76         | 90.46                  | 6661.74     | 96.00                    | 2750.11                     | 3.12 N                                    | 2750.17 E | 2750.17@                          | 89.93 | 1.31              |
| 9267.00                   | 88.72         | 90.67                  | 6664.66     | 95.00                    | 2845.04                     | 2.19 N                                    | 2845.12 E | 2845.12@                          | 89.96 | 1.03              |

# PathFinder Energy Services, Inc.

## Survey Report

YATES PETROLEUM CORPORATION  
BONBON BNN STATE COM #1H  
EDDY COUNTY, NEW MEXICO  
RIG:PATRIOT #5

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| Measured<br>Depth<br>(ft)                        | Incl<br>(deg) | Drift<br>Dir.<br>(deg) | TVD<br>(ft) | Course<br>Length<br>(ft) | Vertical<br>Section<br>(ft) | TOTAL<br>Rectangular Offsets |           | Closure<br>Dist Dir |       | DLS<br>(dg/100ft) |
|--------------------------------------------------|---------------|------------------------|-------------|--------------------------|-----------------------------|------------------------------|-----------|---------------------|-------|-------------------|
|                                                  |               |                        |             |                          |                             | (ft)                         | (ft)      | (ft)                | (deg) |                   |
| 9362.00                                          | 89.60         | 91.05                  | 6666.05     | 95.00                    | 2940.01                     | 0.76 N                       | 2940.10 E | 2940.10@            | 89.99 | 1.01              |
| 9457.00                                          | 90.04         | 89.51                  | 6666.35     | 95.00                    | 3035.00                     | 0.30 N                       | 3035.10 E | 3035.10@            | 89.99 | 1.69              |
| 9553.00                                          | 90.66         | 90.40                  | 6665.77     | 96.00                    | 3130.99                     | 0.37 N                       | 3131.09 E | 3131.09@            | 89.99 | 1.13              |
| 9648.00                                          | 91.45         | 89.80                  | 6664.02     | 95.00                    | 3225.97                     | 0.21 N                       | 3226.07 E | 3226.07@            | 90.00 | 1.04              |
| 9743.00                                          | 92.24         | 88.22                  | 6660.96     | 95.00                    | 3320.91                     | 1.85 N                       | 3321.01 E | 3321.01@            | 89.97 | 1.86              |
| 9838.00                                          | 90.57         | 86.69                  | 6658.63     | 95.00                    | 3415.81                     | 6.06 N                       | 3415.88 E | 3415.88@            | 89.90 | 2.38              |
| 9933.00                                          | 91.54         | 87.05                  | 6656.88     | 95.00                    | 3510.69                     | 11.25 N                      | 3510.72 E | 3510.74@            | 89.82 | 1.09              |
| 10028.00                                         | 87.58         | 87.21                  | 6657.61     | 95.00                    | 3605.59                     | 16.01 N                      | 3605.58 E | 3605.61@            | 89.75 | 4.17              |
| 10123.00                                         | 88.55         | 87.84                  | 6660.82     | 95.00                    | 3700.48                     | 20.11 N                      | 3700.43 E | 3700.49@            | 89.69 | 1.22              |
| 10218.00                                         | 87.32         | 88.40                  | 6664.24     | 95.00                    | 3795.38                     | 23.22 N                      | 3795.32 E | 3795.39@            | 89.65 | 1.42              |
| 10314.00                                         | 88.64         | 86.88                  | 6667.62     | 96.00                    | 3891.27                     | 27.17 N                      | 3891.17 E | 3891.27@            | 89.60 | 2.10              |
| 10409.00                                         | 88.64         | 87.21                  | 6669.88     | 95.00                    | 3986.15                     | 32.07 N                      | 3986.02 E | 3986.15@            | 89.54 | 0.35              |
| 10504.00                                         | 88.55         | 86.15                  | 6672.21     | 95.00                    | 4081.00                     | 37.57 N                      | 4080.83 E | 4081.00@            | 89.47 | 1.12              |
| 10599.00                                         | 89.87         | 86.26                  | 6673.52     | 95.00                    | 4175.83                     | 43.85 N                      | 4175.61 E | 4175.84@            | 89.40 | 1.39              |
| 10694.00                                         | 89.34         | 85.45                  | 6674.17     | 95.00                    | 4270.63                     | 50.72 N                      | 4270.36 E | 4270.66@            | 89.32 | 1.02              |
| 10790.00                                         | 88.46         | 87.00                  | 6676.02     | 96.00                    | 4366.45                     | 57.04 N                      | 4366.13 E | 4366.50@            | 89.25 | 1.86              |
| 10885.00                                         | 88.20         | 88.53                  | 6678.78     | 95.00                    | 4461.36                     | 60.74 N                      | 4461.01 E | 4461.43@            | 89.22 | 1.63              |
| 10980.00                                         | 87.23         | 86.32                  | 6682.57     | 95.00                    | 4556.22                     | 65.01 N                      | 4555.84 E | 4556.30@            | 89.18 | 2.54              |
| 11015.00                                         | 88.55         | 87.34                  | 6683.86     | 35.00                    | 4591.15                     | 66.94 N                      | 4590.76 E | 4591.25@            | 89.16 | 4.76              |
| STRAIGHT LINE PROJECTION TO THE BIT @ 11094' MD. |               |                        |             |                          |                             |                              |           |                     |       |                   |
| 11094.00                                         | 88.55         | 87.34                  | 6685.86     | 79.00                    | 4670.07                     | 70.61 N                      | 4669.65 E | 4670.18@            | 89.13 | 0.00              |



## TIE-IN SURVEY INFORMATION SHEET

### CLIENT INFORMATION

|                           |                            |            |     |
|---------------------------|----------------------------|------------|-----|
| CLIENT:                   | YATES PETROLEUM            |            |     |
| LEASE / WELL No.:         | BONBON BNN STATE COM       | #1H        |     |
| WELL LOCATION:            | EDDY COUNTY, NEW MEXICO    |            |     |
| COUNTY / STATE / COUNTRY: | EDDY                       | NEW MEXICO | USA |
| RIG:                      | PATRIOT #5                 |            |     |
| API WELL No:              | 30-015-36913               |            |     |
| JOB No:                   | 101009887 WT-WT            |            |     |
| P.O. / AFE No.            | 90190                      |            |     |
| DIRECTIONAL COMPANY:      | PATHFINDER ENERGY SERVICES |            |     |

### WELL SITE INFORMATION

|                           |                                                                                                        |                 |                 |               |      |
|---------------------------|--------------------------------------------------------------------------------------------------------|-----------------|-----------------|---------------|------|
| MAGNETIC DECLINATION:     |                                                                                                        |                 |                 |               |      |
| On Wall Plat:             | 7.84                                                                                                   | LWD Calculated: | 7.834183        | Agreed Upon:  | 7.84 |
| X =                       | 619023.707000                                                                                          | Feet            | Y =             | 398470.369000 | Feet |
| SITE LATITUDE:            | 32.095226 N                                                                                            | SITE LONGITUDE: | 104.082464 W    |               |      |
| GRID SYSTEM:              | TRUE <input type="checkbox"/> UTM <input checked="" type="checkbox"/> LAMBERT <input type="checkbox"/> | ZONE:           | new mexico east |               |      |
| PROPOSED DRIFT DIRECTION: | 89.53                                                                                                  |                 |                 |               |      |
| KELLY BUSHING ELEVATION:  | 28'                                                                                                    |                 |                 |               |      |
| ALTITUDE:                 | 2946                                                                                                   | Feet            | WATER DEPTH:    | N/A           | Feet |

### TIE-IN SURVEY

|                                    |                                                                                                                            |        |  |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------|--------|--|
| MEASURED DEPTH:                    | 6000                                                                                                                       |        |  |
| DRIFT ANGLE:                       | 1.25                                                                                                                       |        |  |
| DRIFT DIRECTION:                   | 178.42                                                                                                                     |        |  |
| TRUE VERTICAL DEPTH:               | 5999.33                                                                                                                    |        |  |
| VERTICAL SECTION:                  | 5.75                                                                                                                       |        |  |
| RECTANGULAR COORDINATE ( N / S ) : | -26.21                                                                                                                     |        |  |
| RECTANGULAR COORDINATE ( E / W ) : | 5.96                                                                                                                       |        |  |
| CLOSURE DISTANCE / DIRECTION:      | 26.88                                                                                                                      | 167.18 |  |
| SURVEY CALCULATION METHOD:         | AA <input type="checkbox"/> MC <input checked="" type="checkbox"/> RC <input type="checkbox"/> BT <input type="checkbox"/> |        |  |
| SOURCE OF TIE-IN DATA ( COMPANY ): | MS ENERGY SERVICES                                                                                                         |        |  |
| COPY OF TIE-IN SURVEY REPORT       | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO                                                        |        |  |

### WELL PLAN

|                |      |              |       |
|----------------|------|--------------|-------|
| KICKOFF DEPTH: | 6130 | TOTAL DEPTH: | 11111 |
| KICKOFF ANGLE: | 1.25 | MAX ANGLE:   | 90    |

PES Engineers:

BRYANT BLAKEMORE

\*\*Signature of both field engineers required if applicable

MATT SHIPP

Directional Driller: IRBY LeJEUNE

DATE: 6-Mar-2010