



**PHOENIX**  
**TECHNOLOGY SERVICES**

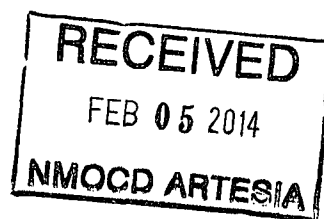
January 31, 2014

Oil Conservation Division  
State of New Mexico  
811 S. First St.  
Artesia, New Mexico 88210

Dear District 2 - Artesia

Attention: Regulatory Department

Re: Yates Petroleum Corp.  
Roy AET #6H  
Eddy County, NM  
API #30-015-41726  
Job No. 1311694



Enclosed please find the Survey Data Certification, and the original Plat and one copy of the Survey Report performed on the above referenced Well by Phoenix Technology Services, Inc. (P-5 No. 664171). Other information required by your office is as follows:

| Name & Title of Surveyor | Drain Hole Number | Surveyed Depths |       | Dates Performed |          | Type of Survey |
|--------------------------|-------------------|-----------------|-------|-----------------|----------|----------------|
|                          |                   | From            | To    | Start           | End      |                |
| Daniel Scott             | 6H                | 1,829           | 6,876 | 12/31/13        | 01/07/14 | MWD            |

A certified plat on which the bottom hole location is oriented both to the surface location and to the lease lines (or unit lines in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Best Regards,

*Dolly Bush*

Dolly Bush  
Operations Administrator

Certified mail receipt number: 7012 3050 0001 3227 2979

RECEIVED

FEB 05 2014

NMOCD ARTESIA

# Phoenix Technology Services SURVEY DATA CERTIFICATION



PHOENIX JOB NUMBER

1311694

OPERATOR

Yates Petroleum Corp.

WELL NAME

Roy AET #6H

COUNTY &amp; STATE

Eddy County, NM

API WELL NUMBER

30-015-41726

PROPOSED DIRECTION

268.79

| TIE-IN DATA       |                   |         |           |              |              |                |
|-------------------|-------------------|---------|-----------|--------------|--------------|----------------|
| MEASURED<br>DEPTH | VERTICAL<br>DEPTH | INCLIN  | AZIMUTH   | N-S<br>COORD | E-W<br>COORD | DATA<br>SOURCE |
| 1,770 ft          | 1,769.87 ft       | 0.77 ft | 270.35 ft | 7.63 ft      | 17.70 ft     | Surface        |

| FIRST<br>SURVEY<br>DATE | FIRST<br>SURVEY<br>DEPTH | INCLIN | AZIMUTH |
|-------------------------|--------------------------|--------|---------|
| 31-Dec-13               | 1,829 ft                 | 1.1    | 287.3   |

SURVEY INSTRUMENT

TYPE

Phoenix MWD

| LAST<br>SURVEY<br>DATE | LAST<br>SURVEY<br>DEPTH | INCLIN | AZIMUTH |
|------------------------|-------------------------|--------|---------|
| 7-Jan-14               | 6,876 ft                | 92.7   | 269.4   |

TO THE BEST OF MY KNOWLEDGE I  
CERTIFY THIS SURVEY DATA TO BE  
TRUE AND CORRECT.

| PROJECTED<br>TD SURVEY<br>DATE | PROJECTED<br>TD SURVEY<br>DEPTH | INCLIN | AZIMUTH |
|--------------------------------|---------------------------------|--------|---------|
| 7-Jan-14                       | 6,958 ft                        | 92.7   | 269.4   |

Daniel Scott

PRINT YOUR NAME ABOVE

Daniel Scott

SIGN YOUR NAME ABOVE

1/7/2014

TODAY'S DATE

MAGNETIC DECLINATION OR TOTAL GRID

| TOTAL CORRECTION USED | 7.83 |
|-----------------------|------|
| DECLINATION OR GRID   | GRID |

MWD SUPERVISOR 1

Daniel Scott

DIRECTIONAL DRILLER 1

Marcus Jenkins

MWD SUPERVISOR 2

Craig Peterson

DIRECTIONAL DRILLER 2

Dan Waggoner

1805 Brittmore Road

Houston, Texas 77043

(713)3370609 (Voice), (713)337-0599 (Fax)

## DISTRICT I

1625 N. French Dr., Hobbs, NM 88240  
Phone (575) 393-6161 Fax: (575) 393-0760

## DISTRICT II

811 S. First St., Artesia, NM 88210  
Phone (575) 748-1283 Fax: (575) 748-9720

## DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410  
Phone (505) 334-6176 Fax: (505) 334-6170

## DISTRICT IV

1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone (505) 476-3480 Fax: (505) 476-3482State of New Mexico  
Energy, Minerals and Natural Resources Department

## OIL CONSERVATION DIVISION

1220 South St. Francis Dr.  
Santa Fe, New Mexico 87505

Form C-102

Revised August 1, 2011

Submit one copy to appropriate  
District Office

RECEIVED

OCT 10 2013

NMOCD ARTESIA

## WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

|                                   |                                                 |                                            |
|-----------------------------------|-------------------------------------------------|--------------------------------------------|
| API Number<br><b>30-015-41726</b> | Pool Code<br><b>50270</b>                       | Pool Name<br>Penasco Draw; SA-Yeso (Assoc) |
| Property Code<br><b>12701</b>     | Property Name<br><b>ROY AET</b>                 | Well Number<br><b>6H</b>                   |
| OGRD No.<br><b>025575</b>         | Operator Name<br><b>YATES PETROLEUM COMPANY</b> | Elevation<br><b>3529</b>                   |

## Surface Location

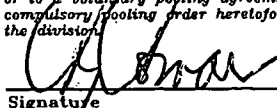
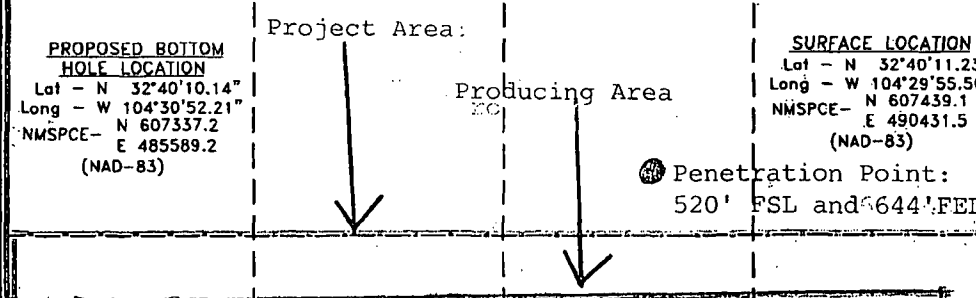
| UL or lot No. | Section | Township | Range | Lot Idn | USAt from the | North/South line | USAt from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| N             | 8       | 19 S     | 25 E  |         | 530           | SOUTH            | 150           | EAST           | EDDY   |

## Bottom Hole Location If Different From Surface

| UL or lot No. | Section | Township | Range | Lot Idn | USAt from the | North/South line | USAt from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| C             | 8       | 19 S     | 25 E  |         | 400           | SOUTH            | 330           | WEST           | EDDY   |

| Dedicated Acres | Joint or Infill | Consolidation Code | Order No. |
|-----------------|-----------------|--------------------|-----------|
| 160             |                 |                    |           |

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

|                                                                                                                           |                                      |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|---------------------------------------------------------------------------------------------------------------------------|--------------------------------------|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| N: 612248.5<br>E: 485265.4<br>NAD-83                                                                                      | N: 612255.1<br>E: 487939.6<br>NAD-83 | N: 612262.4<br>E: 490578.7<br>NAD-83 | <b>OPERATOR CERTIFICATION</b><br>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.<br><br>Signature _____ Date <b>10/10/13</b><br>Cy Cowan<br>Printed Name _____<br>Email Address _____ |
| <b>PROPOSED BOTTOM HOLE LOCATION</b><br>Lat - N 32°40'10.14"<br>Long - W 104°30'52.21"<br>NMSPCE- E 485589.2<br>(NAD-83)  |                                      |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>SURFACE LOCATION</b><br>Lat - N 32°40'11.23"<br>Long - W 104°29'55.56"<br>NMSPCE- E 607439.1<br>E 490431.5<br>(NAD-83) |                                      |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Penetration Point:<br>520' FSL and 644' FEL                                                                               |                                      |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Project Area:<br>                      |                                      |                                      | <b>SURVEYOR CERTIFICATION</b><br>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.<br><b>SEPTEMBER 06, 2013</b><br>Date Surveyed _____<br>Signature _____<br>Professional Surveyor<br>Certificate No. 7977<br>State of New Mexico<br>Surveyors                                                                                                                                                                                                                                                                                                                         |
| B.H.<br>N: 606938.2<br>E: 485258.2<br>NAD-83                                                                              |                                      |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| N: 606907.9<br>E: 490581.3<br>NAD-83                                                                                      |                                      |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Scale: 1" = 1000'<br>WO Num.: 29182                                                                                       |                                      |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |



## **Yates Petroleum Corp.**

Eddy County, NM (NAD83 NME)

Roy AET

#6H

WB1/Job #1311694

Survey: Phoenix MWD Surveys

## **Survey Report**

08 January, 2014





# Phoenix Technology Services

## Survey Report



|           |                             |                              |                                  |
|-----------|-----------------------------|------------------------------|----------------------------------|
| Company:  | Yates Petroleum Corp.       | Local Co-ordinate Reference: | Well #6H                         |
| Project:  | Eddy County, NM (NAD83 NME) | TVD Reference:               | KB @ 3547.50usft (Silver Oak 11) |
| Site:     | Roy AET                     | MD Reference:                | KB @ 3547.50usft (Silver Oak 11) |
| Well:     | #6H                         | North Reference:             | Grid                             |
| Wellbore: | WB1/Job #1311694            | Survey Calculation Method:   | Minimum Curvature                |
| Design:   | Surveys (Silver Oak 11)     | Database:                    | Compass 5000.GCR DB              |

|             |                             |               |                |
|-------------|-----------------------------|---------------|----------------|
| Project:    | Eddy County, NM (NAD83 NME) |               |                |
| Map System: | US State Plane 1983         | System Datum: | Mean Sea Level |
| Geo Datum:  | North American Datum 1983   |               |                |
| Map Zone:   | New Mexico Eastern Zone     |               |                |

|                       |           |              |            |      |                   |                     |
|-----------------------|-----------|--------------|------------|------|-------------------|---------------------|
| Site:                 | Roy AET   |              |            |      |                   |                     |
| Site Position:        |           | Northing:    | 607,439.10 | usft | Latitude:         | 32° 40' 11.23170 N  |
| From:                 | Map       | Easting:     | 490,431.50 | usft | Longitude:        | 104° 29' 55.55890 W |
| Position Uncertainty: | 0.00 usft | Slot Radius: | 13-3/16    | "    | Grid Convergence: | -0.09 °             |

|                      |           |                     |           |                 |               |                     |
|----------------------|-----------|---------------------|-----------|-----------------|---------------|---------------------|
| Well                 | #6H       |                     |           |                 |               |                     |
| Well Position        | +N/-S     | 0.00 usft           | Northing: | 607,439.10 usft | Latitude:     | 32° 40' 11.23170 N  |
|                      | +E/-W     | 0.00 usft           | Easting:  | 490,431.50 usft | Longitude:    | 104° 29' 55.55890 W |
| Position Uncertainty | 0.00 usft | Wellhead Elevation: | usft      | Ground Level:   | 3,529.00 usft |                     |

|           |                  |             |                    |                  |                        |
|-----------|------------------|-------------|--------------------|------------------|------------------------|
| Wellbore  | WB1/Job #1311694 |             |                    |                  |                        |
| Magnetics | Model Name       | Sample Date | Declination<br>(°) | Dip Angle<br>(°) | Field Strength<br>(nT) |
|           | IGRF2010_14      | 12/11/13    | 7.74               | 60.38            | 48,532                 |

|                   |  |                         |               |           |        |
|-------------------|--|-------------------------|---------------|-----------|--------|
| Design:           |  | Surveys (Silver Oak 11) |               |           |        |
| Audit Notes:      |  |                         |               |           |        |
| Version:          |  | 1.0                     | Phase:        |           | ACTUAL |
|                   |  |                         | Tie On Depth: |           | 0.00   |
| Vertical Section: |  | Depth From (TVD)        |               | +N/-S     |        |
|                   |  | (usft)                  |               | (usft)    |        |
|                   |  | 0.00                    |               | 0.00      |        |
|                   |  |                         |               | +E/-W     |        |
|                   |  |                         |               | (usft)    |        |
|                   |  |                         |               | Direction |        |
|                   |  |                         |               | (°)       |        |
|                   |  |                         |               | 268.79    |        |



# Phoenix Technology Services

## Survey Report



|           |                             |                              |                                  |
|-----------|-----------------------------|------------------------------|----------------------------------|
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| Project:  | Eddy County, NM (NAD83 NME) | TVD Reference:               | KB @ 3547.50usft (Silver Oak 11) |
| Site:     | Roy AET                     | MD Reference:                | KB @ 3547.50usft (Silver Oak 11) |
| Well:     | #6H                         | North Reference:             | Grid                             |
| Wellbore: | WB1/Job #1311694            | Survey Calculation Method:   | Minimum Curvature                |
| Design:   | Surveys (Silver Oak 11)     | Database:                    | Compass 5000 GCR DB              |

| Survey Program |              | Date                                 | 01/08/14   |                             |  |
|----------------|--------------|--------------------------------------|------------|-----------------------------|--|
| From<br>(usft) | To<br>(usft) | Survey (Wellbore)                    | Tool Name  | Description                 |  |
| 200.00         | 1,770.00     | MS Gyro Survey (WB1/Job #1311694)    | CB-GYRO-MS | Camera based gyro multishot |  |
| 1,829.00       | 6,958.00     | Phoenix MWD Surveys (WB1/Job #131169 | MWD        | MWD - Standard              |  |

| MD (usft)            | Inc (°) | Azi (azimuth) (°) | TVDSS (usft) | TVD (usft) | N/S (usft) | E/W (usft) | V. Sec (usft) | DLeg (°/100usft) | Northing (usft) | Easting (usft) |
|----------------------|---------|-------------------|--------------|------------|------------|------------|---------------|------------------|-----------------|----------------|
| 1,770.00             | 0.77    | 270.35            | -1,777.63    | 1,769.87   | -7.63      | -17.70     | 17.86         | 0.00             | 607,431.47      | 490,413.80     |
| 1,829.00             | 1.10    | 287.30            | -1,718.64    | 1,828.86   | -7.46      | -18.64     | 18.79         | 0.72             | 607,431.64      | 490,412.86     |
| First Phoenix Survey |         |                   |              |            |            |            |               |                  |                 |                |
| 1,861.00             | 2.10    | 284.20            | -1,686.65    | 1,860.85   | -7.22      | -19.50     | 19.65         | 3.14             | 607,431.88      | 490,412.00     |
| 1,892.00             | 3.80    | 280.70            | -1,655.69    | 1,891.81   | -6.89      | -21.06     | 21.20         | 5.51             | 607,432.21      | 490,410.44     |
| 1,923.00             | 5.90    | 278.20            | -1,624.81    | 1,922.69   | -6.48      | -23.64     | 23.78         | 6.81             | 607,432.62      | 490,407.86     |
| 1,955.00             | 8.60    | 278.10            | -1,593.07    | 1,954.43   | -5.90      | -27.64     | 27.76         | 8.44             | 607,433.20      | 490,403.86     |
| 1,986.00             | 11.70   | 276.30            | -1,562.55    | 1,984.95   | -5.23      | -33.06     | 33.17         | 10.05            | 607,433.87      | 490,398.44     |
| 2,017.00             | 16.00   | 272.80            | -1,532.46    | 2,015.04   | -4.68      | -40.46     | 40.55         | 14.13            | 607,434.42      | 490,391.04     |
| 2,048.00             | 21.20   | 270.50            | -1,503.09    | 2,044.41   | -4.42      | -50.34     | 50.42         | 16.94            | 607,434.68      | 490,381.16     |
| 2,078.00             | 25.80   | 266.80            | -1,475.59    | 2,071.91   | -4.74      | -62.29     | 62.37         | 16.10            | 607,434.36      | 490,369.21     |
| 2,109.00             | 30.60   | 265.50            | -1,448.27    | 2,099.23   | -5.73      | -76.90     | 77.00         | 15.61            | 607,433.37      | 490,354.60     |
| 2,141.00             | 35.90   | 265.70            | -1,421.52    | 2,125.98   | -7.08      | -94.38     | 94.51         | 16.57            | 607,432.02      | 490,337.12     |
| 2,172.00             | 40.50   | 265.80            | -1,397.17    | 2,150.33   | -8.50      | -113.50    | 113.65        | 14.84            | 607,430.60      | 490,318.00     |
| 2,203.00             | 44.80   | 265.80            | -1,374.37    | 2,173.13   | -10.03     | -134.44    | 134.62        | 13.87            | 607,429.07      | 490,297.06     |
| 2,234.00             | 49.00   | 264.90            | -1,353.19    | 2,194.31   | -11.88     | -156.99    | 157.21        | 13.71            | 607,427.22      | 490,274.51     |
| 2,265.00             | 52.10   | 265.00            | -1,333.50    | 2,214.00   | -13.98     | -180.83    | 181.09        | 10.00            | 607,425.12      | 490,250.67     |
| 2,297.00             | 54.90   | 264.90            | -1,314.47    | 2,233.03   | -16.25     | -206.46    | 206.75        | 8.75             | 607,422.85      | 490,225.04     |
| 2,328.00             | 57.80   | 264.90            | -1,297.29    | 2,250.21   | -18.54     | -232.16    | 232.50        | 9.35             | 607,420.56      | 490,199.34     |
| 2,359.00             | 61.50   | 263.90            | -1,281.63    | 2,265.87   | -21.15     | -258.77    | 259.16        | 12.26            | 607,417.95      | 490,172.73     |
| 2,390.00             | 64.70   | 264.90            | -1,267.61    | 2,279.89   | -23.85     | -286.28    | 286.72        | 10.72            | 607,415.25      | 490,145.22     |



# Phoenix Technology Services

## Survey Report



|           |                             |                              |                                  |
|-----------|-----------------------------|------------------------------|----------------------------------|
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| Site:     | Roy AET                     | MD Reference:                | KB @ 3547.50usft (Silver Oak 11) |
| Well:     | #6H                         | North Reference:             | Grid                             |
| Wellbore: | WB1/Job #1311694            | Survey Calculation Method:   | Minimum Curvature                |
| Design:   | Surveys (Silver Oak 11)     | Database:                    | Compass 5000 GCR DB              |

| MD<br>(usft) | Inc<br>(°) | Azi (azimuth)<br>(°) | TVDSS<br>(usft) | TVD<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | V. Sec<br>(usft) | DLeg<br>(%/100usft) | Northing<br>(usft) | Easting<br>(usft) |
|--------------|------------|----------------------|-----------------|---------------|---------------|---------------|------------------|---------------------|--------------------|-------------------|
| 2,422.00     | 67.70      | 265.10               | -1,254.69       | 2,292.81      | -26.40        | -315.45       | 315.94           | 9.39                | 607,412.70         | 490,116.05        |
| 2,453.00     | 69.50      | 265.00               | -1,243.38       | 2,304.12      | -28.89        | -344.20       | 344.74           | 5.81                | 607,410.21         | 490,087.30        |
| 2,484.00     | 72.90      | 264.60               | -1,233.39       | 2,314.11      | -31.55        | -373.42       | 374.01           | 11.04               | 607,407.55         | 490,058.08        |
| 2,516.00     | 76.80      | 264.70               | -1,225.03       | 2,322.47      | -34.43        | -404.17       | 404.81           | 12.19               | 607,404.67         | 490,027.33        |
| 2,547.00     | 79.80      | 265.30               | -1,218.75       | 2,328.75      | -37.07        | -434.41       | 435.09           | 9.86                | 607,402.03         | 489,997.09        |
| 2,578.00     | 82.30      | 266.00               | -1,213.92       | 2,333.58      | -39.40        | -464.94       | 465.67           | 8.37                | 607,399.70         | 489,966.56        |
| 2,604.00     | 84.60      | 266.90               | -1,210.96       | 2,336.54      | -40.99        | -490.72       | 491.47           | 9.49                | 607,398.11         | 489,940.78        |
| 2,636.00     | 87.30      | 268.00               | -1,208.70       | 2,338.80      | -42.41        | -522.60       | 523.38           | 9.11                | 607,396.69         | 489,908.90        |
| 2,667.00     | 89.40      | 268.50               | -1,207.81       | 2,339.69      | -43.36        | -553.57       | 554.37           | 6.96                | 607,395.74         | 489,877.93        |
| 2,760.00     | 92.00      | 268.90               | -1,208.94       | 2,338.56      | -45.47        | -646.53       | 647.35           | 2.83                | 607,393.63         | 489,784.97        |
| 2,854.00     | 90.10      | 269.20               | -1,210.66       | 2,336.84      | -47.03        | -740.50       | 741.33           | 2.05                | 607,392.07         | 489,691.00        |
| 2,947.00     | 90.70      | 269.60               | -1,211.31       | 2,336.19      | -48.00        | -833.49       | 834.32           | 0.78                | 607,391.10         | 489,598.01        |
| 3,041.00     | 91.20      | 269.20               | -1,212.87       | 2,334.63      | -48.99        | -927.48       | 928.30           | 0.68                | 607,390.11         | 489,504.02        |
| 3,135.00     | 91.80      | 269.30               | -1,215.33       | 2,332.17      | -50.22        | -1,021.43     | 1,022.27         | 0.65                | 607,388.88         | 489,410.07        |
| 3,229.00     | 92.30      | 269.10               | -1,218.70       | 2,328.80      | -51.53        | -1,115.36     | 1,116.20         | 0.57                | 607,387.57         | 489,316.14        |
| 3,322.00     | 92.80      | 268.90               | -1,222.83       | 2,324.67      | -53.15        | -1,208.26     | 1,209.11         | 0.58                | 607,385.95         | 489,223.24        |
| 3,415.00     | 91.80      | 269.00               | -1,226.57       | 2,320.93      | -54.85        | -1,301.17     | 1,302.03         | 1.08                | 607,384.25         | 489,130.33        |
| 3,509.00     | 91.90      | 269.40               | -1,229.60       | 2,317.90      | -56.16        | -1,395.11     | 1,395.98         | 0.44                | 607,382.94         | 489,036.39        |
| 3,603.00     | 91.30      | 269.30               | -1,232.22       | 2,315.28      | -57.23        | -1,489.07     | 1,489.94         | 0.65                | 607,381.87         | 488,942.43        |
| 3,696.00     | 91.40      | 269.00               | -1,234.42       | 2,313.08      | -58.61        | -1,582.03     | 1,582.91         | 0.34                | 607,380.49         | 488,849.47        |
| 3,789.00     | 92.20      | 268.60               | -1,237.34       | 2,310.16      | -60.56        | -1,674.96     | 1,675.87         | 0.96                | 607,378.54         | 488,756.54        |
| 3,883.00     | 92.70      | 268.20               | -1,241.36       | 2,306.14      | -63.18        | -1,768.84     | 1,769.78         | 0.68                | 607,375.92         | 488,662.66        |
| 3,977.00     | 92.40      | 269.00               | -1,245.54       | 2,301.96      | -65.47        | -1,862.72     | 1,863.68         | 0.91                | 607,373.63         | 488,568.78        |
| 4,070.00     | 92.30      | 268.60               | -1,249.35       | 2,298.15      | -67.42        | -1,955.62     | 1,956.61         | 0.44                | 607,371.68         | 488,475.88        |
| 4,164.00     | 91.90      | 269.80               | -1,252.80       | 2,294.70      | -68.73        | -2,049.54     | 2,050.54         | 1.34                | 607,370.37         | 488,381.96        |
| 4,257.00     | 90.70      | 270.00               | -1,254.91       | 2,292.59      | -68.89        | -2,142.52     | 2,143.49         | 1.31                | 607,370.21         | 488,288.98        |
| 4,351.00     | 90.60      | 270.50               | -1,255.97       | 2,291.53      | -68.48        | -2,236.51     | 2,237.46         | 0.54                | 607,370.62         | 488,194.99        |



# Phoenix Technology Services

## Survey Report



|           |                             |                              |                                  |
|-----------|-----------------------------|------------------------------|----------------------------------|
| Company:  | Yates Petroleum Corp.       | Local Co-ordinate Reference: | Well #6H                         |
| Project:  | Eddy County, NM (NAD83 NME) | TVD Reference:               | KB @ 3547.50usft (Silver Oak 11) |
| Site:     | Roy AET                     | MD Reference:                | KB @ 3547.50usft (Silver Oak 11) |
| Well:     | #6H                         | North Reference:             | Grid                             |
| Wellbore: | WB1/Job #1311694            | Survey Calculation Method:   | Minimum Curvature                |
| Design:   | Surveys (Silver Oak 11)     | Database:                    | Compass 5000 GCR DB              |

| Survey       |            |                      |                 |               |               |               |                  |                     |                    |                   |  |
|--------------|------------|----------------------|-----------------|---------------|---------------|---------------|------------------|---------------------|--------------------|-------------------|--|
| MD<br>(usft) | Inc<br>(°) | Azi (azimuth)<br>(°) | TVDSS<br>(usft) | TVD<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | V. Sec<br>(usft) | DLeg<br>(°/100usft) | Northing<br>(usft) | Easting<br>(usft) |  |
| 4,444.00     | 91.20      | 270.70               | -1,257.43       | 2,290.07      | -67.51        | -2,329.49     | 2,330.40         | 0.68                | 607,371.59         | 488,102.01        |  |
| 4,538.00     | 91.40      | 271.00               | -1,259.57       | 2,287.93      | -66.11        | -2,423.46     | 2,424.31         | 0.38                | 607,372.99         | 488,008.04        |  |
| 4,632.00     | 91.90      | 271.10               | -1,262.27       | 2,285.23      | -64.39        | -2,517.40     | 2,518.20         | 0.54                | 607,374.71         | 487,914.10        |  |
| 4,725.00     | 92.10      | 271.20               | -1,265.52       | 2,281.98      | -62.53        | -2,610.33     | 2,611.07         | 0.24                | 607,376.57         | 487,821.17        |  |
| 4,819.00     | 91.70      | 270.00               | -1,268.63       | 2,278.87      | -61.54        | -2,704.27     | 2,704.97         | 1.34                | 607,377.56         | 487,727.23        |  |
| 4,912.00     | 90.60      | 269.20               | -1,270.50       | 2,277.00      | -62.19        | -2,797.25     | 2,797.94         | 1.46                | 607,376.91         | 487,634.25        |  |
| 5,005.00     | 90.80      | 269.10               | -1,271.64       | 2,275.86      | -63.57        | -2,890.23     | 2,890.93         | 0.24                | 607,375.53         | 487,541.27        |  |
| 5,099.00     | 91.10      | 269.30               | -1,273.20       | 2,274.30      | -64.88        | -2,984.21     | 2,984.91         | 0.38                | 607,374.22         | 487,447.29        |  |
| 5,192.00     | 92.00      | 269.40               | -1,275.71       | 2,271.79      | -65.94        | -3,077.17     | 3,077.87         | 0.97                | 607,373.16         | 487,354.33        |  |
| 5,286.00     | 92.40      | 269.10               | -1,279.32       | 2,268.18      | -67.17        | -3,171.09     | 3,171.80         | 0.53                | 607,371.93         | 487,260.41        |  |
| 5,379.00     | 92.60      | 269.20               | -1,283.38       | 2,264.12      | -68.55        | -3,263.99     | 3,264.71         | 0.24                | 607,370.55         | 487,167.51        |  |
| 5,473.00     | 92.50      | 269.00               | -1,287.56       | 2,259.94      | -70.02        | -3,357.88     | 3,358.61         | 0.24                | 607,369.08         | 487,073.62        |  |
| 5,566.00     | 92.80      | 268.60               | -1,291.86       | 2,255.64      | -71.97        | -3,450.76     | 3,451.52         | 0.54                | 607,367.13         | 486,980.74        |  |
| 5,660.00     | 93.00      | 269.00               | -1,296.61       | 2,250.89      | -73.93        | -3,544.62     | 3,545.39         | 0.48                | 607,365.17         | 486,886.88        |  |
| 5,754.00     | 93.00      | 268.80               | -1,301.53       | 2,245.97      | -75.73        | -3,638.48     | 3,639.27         | 0.21                | 607,363.37         | 486,793.02        |  |
| 5,847.00     | 91.90      | 268.80               | -1,305.51       | 2,241.99      | -77.68        | -3,731.37     | 3,732.18         | 1.18                | 607,361.42         | 486,700.13        |  |
| 5,941.00     | 92.60      | 269.00               | -1,309.20       | 2,238.30      | -79.48        | -3,825.28     | 3,826.11         | 0.77                | 607,359.62         | 486,606.22        |  |
| 6,035.00     | 93.30      | 269.70               | -1,314.04       | 2,233.46      | -80.55        | -3,919.15     | 3,919.98         | 1.05                | 607,358.55         | 486,512.35        |  |
| 6,129.00     | 90.90      | 269.30               | -1,317.48       | 2,230.02      | -81.37        | -4,013.07     | 4,013.90         | 2.59                | 607,357.73         | 486,418.43        |  |
| 6,222.00     | 90.90      | 269.00               | -1,318.94       | 2,228.56      | -82.75        | -4,106.05     | 4,106.88         | 0.32                | 607,356.35         | 486,325.45        |  |
| 6,316.00     | 91.40      | 269.20               | -1,320.83       | 2,226.67      | -84.22        | -4,200.02     | 4,200.86         | 0.57                | 607,354.88         | 486,231.48        |  |
| 6,410.00     | 92.10      | 269.10               | -1,323.70       | 2,223.80      | -85.62        | -4,293.97     | 4,294.82         | 0.75                | 607,353.48         | 486,137.53        |  |
| 6,503.00     | 92.30      | 269.20               | -1,327.27       | 2,220.23      | -87.00        | -4,386.89     | 4,387.75         | 0.24                | 607,352.10         | 486,044.61        |  |
| 6,597.00     | 92.70      | 269.20               | -1,331.37       | 2,216.13      | -88.31        | -4,480.79     | 4,481.66         | 0.43                | 607,350.79         | 485,950.71        |  |
| 6,689.00     | 92.30      | 269.00               | -1,335.38       | 2,212.12      | -89.75        | -4,572.69     | 4,573.57         | 0.49                | 607,349.35         | 485,858.81        |  |
| 6,783.00     | 92.80      | 269.10               | -1,339.56       | 2,207.94      | -91.31        | -4,666.58     | 4,667.47         | 0.54                | 607,347.79         | 485,764.92        |  |



# Phoenix Technology Services

## Survey Report



Company: Yates Petroleum Corp.  
Project: Eddy County, NM (NAD83 NME)  
Site: Roy AET  
Well: #6H  
Wellbore: WB1/Job #1311694  
Design: Surveys (Silver Oak 11)

Local Co-ordinate Reference: Well #6H  
TVD Reference: KB @ 3547.50usft (Silver Oak 11)  
MD Reference: KB @ 3547.50usft (Silver Oak 11)  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature  
Database: Compass 5000 GCR DB

| Survey               |            |                      |                 |               |               |               |                  |                     |                    |                   |  |
|----------------------|------------|----------------------|-----------------|---------------|---------------|---------------|------------------|---------------------|--------------------|-------------------|--|
| MD<br>(usft)         | Inc<br>(°) | Azi (azimuth)<br>(°) | TVDSS<br>(usft) | TVD<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | V. Sec<br>(usft) | DLeg<br>(°/100usft) | Northing<br>(usft) | Easting<br>(usft) |  |
| 6,876.00             | 92.70      | 269.40               | -1,344.03       | 2,203.47      | -92.52        | -4,759.47     | 4,760.36         | 0.34                | 607,346.58         | 485,672.03        |  |
| Final Phoenix Survey |            |                      |                 |               |               |               |                  |                     |                    |                   |  |
| 6,958.00             | 92.70      | 269.40               | -1,347.89       | 2,199.61      | -93.38        | -4,841.37     | 4,842.27         | 0.00                | 607,345.72         | 485,590.13        |  |
| Projection to TD     |            |                      |                 |               |               |               |                  |                     |                    |                   |  |

| Survey Annotations          |                             |                   |                |                      |  |
|-----------------------------|-----------------------------|-------------------|----------------|----------------------|--|
| Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Local Coordinates |                | Comment              |  |
|                             |                             | +N/S<br>(usft)    | +E/W<br>(usft) |                      |  |
| 1,829.00                    | 1,828.86                    | -7.46             | -18.64         | First Phoenix Survey |  |
| 6,876.00                    | 2,203.47                    | -92.52            | -4,759.47      | Final Phoenix Survey |  |
| 6,958.00                    | 2,199.61                    | -93.38            | -4,841.37      | Projection to TD     |  |

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_

DISTRICT I  
1825 N. French Dr., Hobbs, NM 88240

DISTRICT II  
1301 W. Grand Avenue, Artesia, NM 88210

DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals and Natural Resources Department

RECEIVED

FEB 06 2014

Form C-102  
Revised July 16, 2010  
Submit one copy to appropriate  
District Office

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.  
Santa Fe, New Mexico 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

AMENDED REPORT  
As drilled

|                            |                                  |                                       |
|----------------------------|----------------------------------|---------------------------------------|
| API Number<br>30-015-41136 | Pool Code<br>96047               | Pool Name<br>Poker Lake: Delaware, SW |
| Property Code<br>30642     | Property Name<br>POKER LAKE UNIT | Well Number<br>409H                   |
| OGRID No.<br>260737        | Operator Name<br>BOPCO, L.P.     | Elevation<br>3514'                    |

Surface Location

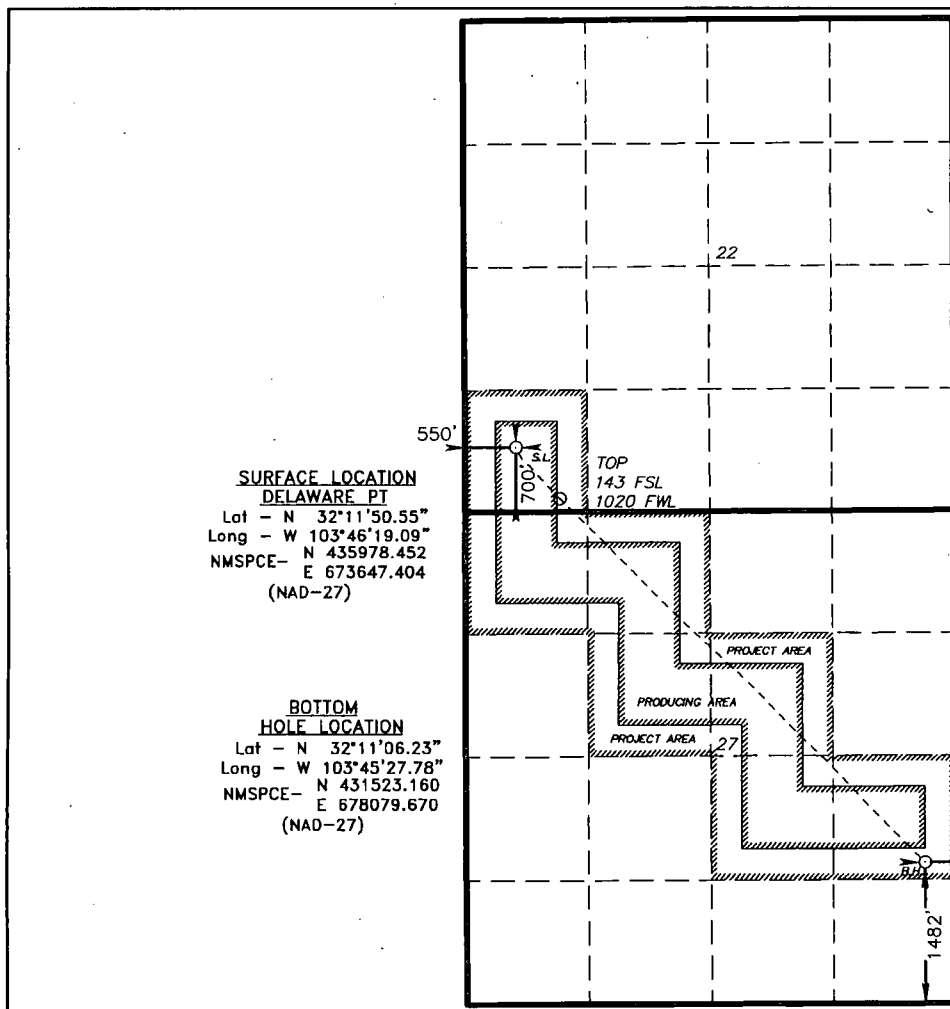
| UL or lot No. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| M             | 22      | 24 S     | 31 E  |         | 700           | SOUTH            | 550           | WEST           | EDDY   |

Bottom Hole Location If Different From Surface

| UL or lot No. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| I             | 27      | 24 S     | 31 E  |         | 1482          | SOUTH            | 314           | EAST           | EDDY   |

|                        |                 |                    |           |
|------------------------|-----------------|--------------------|-----------|
| Dedicated Acres<br>280 | Joint or Infill | Consolidation Code | Order No. |
|------------------------|-----------------|--------------------|-----------|

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature: *Tracie J Cherry* Date: 01-31-14

Tracie J Cherry

Printed Name: tjcherry@basspet.com

Email Address

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date Surveyed: *August 1, 2013*  
Signature & Seal of Professional Surveyor: *[Signature]*  
Certificate No. Gary L. Jones 7977

Basin Surveys

24971