

# George QJ Federal #10

## Log Analysis, Cisco Perfs 4996-5012

| RW<br>0.075 | Cutoff<br>0.040     | Net Pay = 12        | feet                  |                      |                     |                     |                            |
|-------------|---------------------|---------------------|-----------------------|----------------------|---------------------|---------------------|----------------------------|
| Depth       | Density<br>Porosity | Neutron<br>Porosity | CrossPlot<br>Porosity | Porosity ><br>Cutoff | Deep<br>Resistivity | Water<br>Saturation | Hydrocarbon<br>Pore Volume |
| 4995        | 0.021               | 0.021               | 0.021                 | 0.000                | 450                 | 0.000               | 0.000                      |
| 4996        | 0.037               | 0.024               | 0.031                 | 0.000                | 400                 | 0.000               | 0.000                      |
| 4997        | 0.072               | 0.039               | 0.056                 | 0.056                | 360                 | 0.200               | 0.044                      |
| 4998        | 0.101               | 0.040               | 0.071                 | 0.071                | 360                 | 0.143               | 0.060                      |
| 4999        | 0.099               | 0.033               | 0.066                 | 0.066                | 340                 | 0.225               | 0.051                      |
| 5000        | 0.110               | 0.024               | 0.067                 | 0.067                | 330                 | 0.225               | 0.052                      |
| 5001        | 0.140               | 0.025               | 0.083                 | 0.083                | 410                 | 0.164               | 0.069                      |
| 5002        | 0.157               | 0.026               | 0.092                 | 0.092                | 430                 | 0.144               | 0.078                      |
| 5003        | 0.159               | 0.029               | 0.094                 | 0.094                | 350                 | 0.156               | 0.079                      |
| 5004        | 0.145               | 0.028               | 0.087                 | 0.087                | 210                 | 0.218               | 0.068                      |
| 5005        | 0.126               | 0.027               | 0.077                 | 0.077                | 290                 | 0.210               | 0.060                      |
| 5006        | 0.139               | 0.041               | 0.090                 | 0.090                | 250                 | 0.192               | 0.073                      |
| 5007        | 0.145               | 0.048               | 0.097                 | 0.097                | 290                 | 0.167               | 0.080                      |
| 5008        | 0.104               | 0.031               | 0.068                 | 0.068                | 400                 | 0.203               | 0.054                      |
| 5009        | 0.064               | 0.011               | 0.038                 | 0.000                | 450                 | 0.000               | 0.000                      |
| 5010        | 0.021               | 0.000               | 0.011                 | 0.000                | 750                 | 0.000               | 0.000                      |
| 5011        | 0.019               | 0.000               | 0.010                 | 0.000                | 1800                | 0.000               | 0.000                      |
| 5012        | 0.020               | 0.010               | 0.000                 | 0.000                | 1650                | 0.000               | 0.000                      |
|             | 1.063               | 0.944               |                       |                      |                     |                     |                            |
|             | 0.769               |                     |                       |                      |                     |                     |                            |

BEFORE THE OIL CONSERVATION DIVISION  
Santa Fe, New Mexico

Case No. 12751 Exhibit No. 14  
Submitted by:

YATES PETROLEUM CORPORATION  
Hearing Date \_\_\_\_\_

# George QY Federal #9

## Log Analysis, Cisco Perfs 5004-5018

| $R_w$ | Cutoff           | Net Pay = 10     | feet               |                   |                  |                  |                         |
|-------|------------------|------------------|--------------------|-------------------|------------------|------------------|-------------------------|
| Depth | Density Porosity | Neutron Porosity | CrossPlot Porosity | Porosity > Cutoff | Deep Resistivity | Water Saturation | Hydrocarbon Pore Volume |
| 5005  | 0.000            | 0.008            | 0.004              | 0.000             | 1500             | 0.000            | 0.000                   |
| 5006  | 0.095            | 0.027            | 0.061              | 0.061             | 380              | 0.230            | 0.047                   |
| 5007  | 0.113            | 0.061            | 0.087              | 0.087             | 310              | 0.138            | 0.075                   |
| 5008  | 0.128            | 0.110            | 0.119              | 0.119             | 150              | 0.175            | 0.098                   |
| 5009  | 0.172            | 0.151            | 0.162              | 0.162             | 440              | 0.081            | 0.148                   |
| 5010  | 0.220            | 0.154            | 0.187              | 0.187             | 270              | 0.089            | 0.170                   |
| 5011  | 0.217            | 0.146            | 0.182              | 0.182             | 150              | 0.123            | 0.159                   |
| 5012  | 0.178            | 0.128            | 0.153              | 0.153             | 210              | 0.124            | 0.134                   |
| 5013  | 0.159            | 0.097            | 0.128              | 0.128             | 240              | 0.138            | 0.110                   |
| 5014  | 0.126            | 0.060            | 0.093              | 0.093             | 240              | 0.190            | 0.075                   |
| 5015  | 0.066            | 0.018            | 0.042              | 0.042             | 430              | 0.314            | 0.029                   |
| 5016  | 0.014            | 0.002            | 0.008              | 0.000             | 850              | 0.000            | 0.000                   |
|       |                  | 1.225            | 1.213              |                   |                  |                  | <b>1.047</b>            |

# George Federal QJ #2Y

## Log Analysis, Cisco Perfs 4979-4993

| Rw    | Cutoff              | Net Pay =           | 12                    | feet                 |                     |                     |                            |
|-------|---------------------|---------------------|-----------------------|----------------------|---------------------|---------------------|----------------------------|
| Depth | Density<br>Porosity | Neutron<br>Porosity | CrossPlot<br>Porosity | Porosity ><br>Cutoff | Deep<br>Resistivity | Water<br>Saturation | Hydrocarbon<br>Pore Volume |
| 4979  | 0.009               | 0.028               | 0.019                 | 0.000                | 410                 | 0.000               | 0.000                      |
| 4980  | 0.040               | 0.028               | 0.034                 | 0.000                | 380                 | 0.000               | 0.000                      |
| 4981  | 0.117               | 0.034               | 0.076                 | 0.076                | 260                 | 0.225               | 0.059                      |
| 4982  | 0.160               | 0.044               | 0.102                 | 0.102                | 160                 | 0.212               | 0.080                      |
| 4983  | 0.160               | 0.046               | 0.103                 | 0.103                | 150                 | 0.217               | 0.081                      |
| 4984  | 0.142               | 0.047               | 0.095                 | 0.095                | 160                 | 0.229               | 0.073                      |
| 4985  | 0.119               | 0.056               | 0.088                 | 0.088                | 140                 | 0.265               | 0.064                      |
| 4986  | 0.112               | 0.071               | 0.092                 | 0.092                | 50                  | 0.423               | 0.053                      |
| 4987  | 0.114               | 0.098               | 0.106                 | 0.106                | 45                  | 0.385               | 0.065                      |
| 4988  | 0.126               | 0.099               | 0.113                 | 0.113                | 55                  | 0.328               | 0.076                      |
| 4989  | 0.129               | 0.097               | 0.113                 | 0.113                | 50                  | 0.343               | 0.074                      |
| 4990  | 0.122               | 0.095               | 0.109                 | 0.109                | 50                  | 0.357               | 0.070                      |
| 4991  | 0.100               | 0.072               | 0.086                 | 0.086                | 60                  | 0.411               | 0.051                      |
| 4992  | 0.057               | 0.050               | 0.054                 | 0.054                | 120                 | 0.467               | 0.029                      |
| 4993  | 0.017               | 0.021               | 0.019                 | 0.000                | 850                 | 0.000               | 0.000                      |
|       |                     | 1.205               |                       | 1.134                |                     |                     | 0.773                      |

# Powers OL Deep #6

## Log Analysis, Cisco Perfs 4985-4995

| Rw    | Cutoff              | Net Pay = 6         | feet                  |
|-------|---------------------|---------------------|-----------------------|
| 0.075 | 0.040               |                     |                       |
| Depth | Density<br>Porosity | Neutron<br>Porosity | CrossPlot<br>Porosity |
| 4985  | 0.000               | 0.007               | 0.004                 |
| 4986  | 0.023               | 0.020               | 0.022                 |
| 4987  | 0.072               | 0.033               | 0.053                 |
| 4988  | 0.133               | 0.043               | 0.088                 |
| 4989  | 0.139               | 0.054               | 0.097                 |
| 4990  | 0.144               | 0.057               | 0.101                 |
| 4991  | 0.123               | 0.044               | 0.084                 |
| 4992  | 0.044               | 0.037               | 0.041                 |
| 4993  | -0.025              | 0.030               | 0.003                 |
| 4994  | -0.041              | 0.016               | -0.013                |
| 4995  | -0.033              | 0.006               | -0.014                |
| 4996  | -0.020              | 0.005               | -0.008                |
|       |                     | 0.456               | 0.462                 |
|       |                     |                     | <b>0.344</b>          |