

30-025-42136

Well Name: GAUCHO 21 FEDERAL 3H

| Sub-Division<br>DELAWARE BASIN EAST                          |           | Region<br>BASIN EAST      |         | Field Name<br>OJO CHISO            |         | County<br>LEA                       |          | State/Province<br>NM                     |             |
|--------------------------------------------------------------|-----------|---------------------------|---------|------------------------------------|---------|-------------------------------------|----------|------------------------------------------|-------------|
| Surface Legal Location<br>SEC21 T22S R34E                    |           | APN/BLM<br>3002542136     |         | Latitude (°)<br>32° 22' 13.71" N   |         | Longitude (°)<br>103° 28' 44.052" W |          | Original KB Elevation (ft)<br>3,457.40   |             |
|                                                              |           |                           |         |                                    |         |                                     |          | Ground Elev. MSL (ft)<br>3,432.40        |             |
|                                                              |           |                           |         |                                    |         |                                     |          | KB - GL (ft)<br>25.00                    |             |
| Wellbore Name<br>OH                                          |           | Parent Wellbore<br>OH     |         | SAP Well ID<br>38603               |         |                                     |          | Vertical Section Direction (°)<br>355.96 |             |
| Kick Offs & Key Depths                                       |           |                           |         |                                    |         |                                     |          |                                          |             |
| Date<br>7/21/2015                                            |           |                           |         | Type<br>CURVE                      |         |                                     |          | Top Depth (ftKB)<br>9,898.0              |             |
| Actual Deviation Survey<br>EXTREME SURVEY TOOL, Proposed? No |           |                           |         | Definitive?<br>No                  |         | Proposed?<br>No                     |          | Proposed Deviation Survey                |             |
| Deviation Survey                                             |           |                           |         |                                    |         |                                     |          |                                          |             |
| Date<br>7/7/2015                                             |           |                           |         | Description<br>EXTREME SURVEY TOOL |         |                                     |          |                                          |             |
| MD Tie in (ftKB)<br>0.00                                     |           | TVD Tie in (ftKB)<br>0.00 |         | Inclination Tie in (°)<br>0.00     |         | Azimuth Tie in (°)<br>0.00          |          | HS Tie in (ft)<br>0.00                   |             |
|                                                              |           |                           |         |                                    |         |                                     |          | EW Tie in (ft)<br>0.00                   |             |
| Survey Data                                                  |           |                           |         |                                    |         |                                     |          |                                          |             |
| Date                                                         | MD (ftKB) | Incl (°)                  | Azm (°) | TVD (ftKB)                         | VS (ft) | N/S (ft)                            | E/W (ft) | DLB (°/100ft)                            | Survey Tool |
| 7/11/2015                                                    | 197.00    | 0.40                      | 255.81  | 197.00                             | -0.12   | -0.17                               | -0.67    | 0.20                                     | MWD         |
| 7/11/2015                                                    | 317.00    | 0.40                      | 245.93  | 317.00                             | -0.34   | -0.44                               | -1.46    | 0.06                                     | MWD         |
| 7/11/2015                                                    | 438.00    | 0.22                      | 245.84  | 437.99                             | -0.56   | -0.71                               | -2.05    | 0.15                                     | MWD         |
| 7/11/2015                                                    | 527.00    | 0.22                      | 224.53  | 526.99                             | -0.73   | -0.90                               | -2.33    | 0.09                                     | MWD         |
| 7/11/2015                                                    | 613.00    | 0.22                      | 197.63  | 612.99                             | -1.00   | -1.18                               | -2.49    | 0.12                                     | MWD         |
| 7/11/2015                                                    | 713.00    | 0.40                      | 182.34  | 712.99                             | -1.52   | -1.71                               | -2.57    | 0.20                                     | MWD         |
| 7/11/2015                                                    | 813.00    | 0.22                      | 125.30  | 812.99                             | -1.99   | -2.17                               | -2.42    | 0.34                                     | MWD         |
| 7/11/2015                                                    | 991.00    | 0.48                      | 43.34   | 990.99                             | -1.70   | -1.82                               | -1.63    | 0.28                                     | MWD         |
| 7/11/2015                                                    | 1,092.00  | 1.10                      | 36.61   | 1,091.98                           | -0.68   | -0.74                               | -0.77    | 0.62                                     | MWD         |
| 7/11/2015                                                    | 1,187.00  | 1.41                      | 29.63   | 1,186.95                           | 0.98    | 1.01                                | 0.36     | 0.36                                     | MWD         |
| 7/11/2015                                                    | 1,282.00  | 1.71                      | 33.10   | 1,281.92                           | 3.09    | 3.21                                | 1.71     | 0.33                                     | MWD         |
| 7/11/2015                                                    | 1,377.00  | 1.49                      | 42.50   | 1,376.88                           | 5.07    | 5.31                                | 3.32     | 0.36                                     | MWD         |
| 7/11/2015                                                    | 1,472.00  | 1.49                      | 44.20   | 1,471.85                           | 6.74    | 7.11                                | 5.01     | 0.05                                     | MWD         |
| 7/11/2015                                                    | 1,564.00  | 1.19                      | 54.02   | 1,563.82                           | 8.04    | 8.53                                | 6.62     | 0.41                                     | MWD         |
| 7/11/2015                                                    | 1,658.00  | 0.62                      | 37.32   | 1,657.81                           | 8.94    | 9.51                                | 7.72     | 0.66                                     | MWD         |
| 7/11/2015                                                    | 1,704.00  | 0.48                      | 45.62   | 1,703.81                           | 9.25    | 9.84                                | 8.01     | 0.35                                     | MWD         |
| 7/11/2015                                                    | 1,890.00  | 0.40                      | 88.90   | 1,889.81                           | 9.72    | 10.40                               | 9.21     | 0.18                                     | MWD         |
| 7/11/2015                                                    | 1,985.00  | 0.40                      | 110.00  | 1,984.80                           | 9.57    | 10.29                               | 9.86     | 0.15                                     | MWD         |
| 7/11/2015                                                    | 2,080.00  | 0.60                      | 108.40  | 2,079.80                           | 9.26    | 10.03                               | 10.64    | 0.21                                     | MWD         |
| 7/11/2015                                                    | 2,175.00  | 0.50                      | 92.40   | 2,174.80                           | 9.04    | 9.88                                | 11.54    | 0.18                                     | MWD         |
| 7/11/2015                                                    | 2,270.00  | 0.50                      | 69.00   | 2,269.79                           | 9.11    | 10.01                               | 12.34    | 0.21                                     | MWD         |
| 7/11/2015                                                    | 2,365.00  | 1.00                      | 54.20   | 2,364.78                           | 9.67    | 10.64                               | 13.40    | 0.56                                     | MWD         |
| 7/11/2015                                                    | 2,460.00  | 1.20                      | 46.50   | 2,459.77                           | 10.74   | 11.81                               | 14.79    | 0.26                                     | MWD         |
| 7/11/2015                                                    | 2,555.00  | 1.20                      | 45.80   | 2,554.74                           | 12.01   | 13.19                               | 16.22    | 0.02                                     | MWD         |
| 7/11/2015                                                    | 2,650.00  | 1.50                      | 55.50   | 2,649.72                           | 13.29   | 14.59                               | 17.96    | 0.40                                     | MWD         |
| 7/11/2015                                                    | 2,744.00  | 1.80                      | 44.40   | 2,743.68                           | 14.89   | 16.34                               | 20.01    | 0.46                                     | MWD         |
| 7/11/2015                                                    | 2,839.00  | 2.10                      | 48.30   | 2,838.62                           | 16.94   | 18.56                               | 22.35    | 0.35                                     | MWD         |
| 7/11/2015                                                    | 2,933.00  | 2.40                      | 54.10   | 2,932.55                           | 19.03   | 20.86                               | 25.23    | 0.40                                     | MWD         |
| 7/11/2015                                                    | 3,029.00  | 2.40                      | 55.80   | 3,028.47                           | 21.10   | 23.17                               | 28.52    | 0.07                                     | MWD         |
| 7/11/2015                                                    | 3,124.00  | 2.20                      | 63.20   | 3,123.39                           | 22.81   | 25.11                               | 31.80    | 0.38                                     | MWD         |
| 7/11/2015                                                    | 3,218.00  | 2.30                      | 62.90   | 3,217.32                           | 24.25   | 26.78                               | 35.09    | 0.11                                     | MWD         |
| 7/11/2015                                                    | 3,313.00  | 2.60                      | 64.40   | 3,312.23                           | 25.78   | 28.58                               | 38.73    | 0.32                                     | MWD         |
| 7/11/2015                                                    | 3,407.00  | 2.20                      | 73.40   | 3,406.15                           | 26.96   | 30.02                               | 42.38    | 0.58                                     | MWD         |
| 7/11/2015                                                    | 3,502.00  | 2.10                      | 71.50   | 3,501.08                           | 27.79   | 31.09                               | 45.78    | 0.13                                     | MWD         |
| 7/11/2015                                                    | 3,597.00  | 1.80                      | 67.60   | 3,596.03                           | 28.70   | 32.21                               | 48.81    | 0.35                                     | MWD         |
| 7/11/2015                                                    | 3,690.00  | 1.70                      | 67.60   | 3,688.98                           | 29.59   | 33.30                               | 51.43    | 0.11                                     | MWD         |
| 7/11/2015                                                    | 3,785.00  | 1.20                      | 75.20   | 3,783.95                           | 30.22   | 34.09                               | 53.70    | 0.56                                     | MWD         |
| 7/11/2015                                                    | 3,880.00  | 1.20                      | 76.70   | 3,878.93                           | 30.57   | 34.57                               | 55.63    | 0.03                                     | MWD         |
| 7/11/2015                                                    | 3,974.00  | 0.60                      | 89.00   | 3,972.92                           | 30.70   | 34.81                               | 57.08    | 0.67                                     | MWD         |
| 7/11/2015                                                    | 4,069.00  | 0.90                      | 72.00   | 4,067.91                           | 30.85   | 35.04                               | 58.28    | 0.39                                     | MWD         |
| 7/11/2015                                                    | 4,164.00  | 0.80                      | 65.30   | 4,162.90                           | 31.27   | 35.55                               | 59.60    | 0.15                                     | MWD         |
| 7/11/2015                                                    | 4,258.00  | 0.80                      | 74.50   | 4,256.89                           | 31.63   | 36.00                               | 60.82    | 0.14                                     | MWD         |
| 7/11/2015                                                    | 4,352.00  | 0.60                      | 73.00   | 4,350.89                           | 31.87   | 36.32                               | 61.93    | 0.21                                     | MWD         |
| 7/11/2015                                                    | 4,447.00  | 0.60                      | 68.30   | 4,445.88                           | 32.13   | 36.65                               | 62.86    | 0.05                                     | MWD         |
| 7/11/2015                                                    | 4,542.00  | 0.50                      | 61.60   | 4,540.88                           | 32.45   | 37.03                               | 63.69    | 0.12                                     | MWD         |
| 7/11/2015                                                    | 4,637.00  | 0.80                      | 47.70   | 4,635.87                           | 33.03   | 37.67                               | 64.55    | 0.35                                     | MWD         |
| 7/11/2015                                                    | 4,731.00  | 0.60                      | 48.10   | 4,729.86                           | 33.74   | 38.45                               | 65.40    | 0.21                                     | MWD         |
| 7/11/2015                                                    | 4,825.00  | 0.40                      | 63.90   | 4,823.86                           | 34.17   | 38.92                               | 66.06    | 0.26                                     | MWD         |
| 7/11/2015                                                    | 4,920.00  | 0.40                      | 55.60   | 4,918.86                           | 34.46   | 39.25                               | 66.63    | 0.06                                     | MWD         |
| 7/11/2015                                                    | 4,964.00  | 0.40                      | 63.70   | 4,962.86                           | 34.60   | 39.41                               | 66.90    | 0.13                                     | MWD         |
| 7/11/2015                                                    | 5,105.00  | 0.80                      | 52.80   | 5,103.85                           | 35.32   | 40.22                               | 68.12    | 0.29                                     | MWD         |
| 7/11/2015                                                    | 5,201.00  | 1.00                      | 15.70   | 5,199.84                           | 36.48   | 41.43                               | 68.88    | 0.63                                     | MWD         |
| 7/11/2015                                                    | 5,296.00  | 1.40                      | 332.70  | 5,293.82                           | 36.30   | 43.24                               | 68.58    | 1.02                                     | MWD         |
| 7/18/2015                                                    | 5,390.00  | 2.00                      | 299.30  | 5,388.78                           | 40.28   | 45.08                               | 66.60    | 1.19                                     | MWD         |
| 7/18/2015                                                    | 5,485.00  | 3.10                      | 271.30  | 5,483.69                           | 41.43   | 45.95                               | 62.58    | 1.72                                     | MWD         |
| 7/18/2015                                                    | 5,581.00  | 4.00                      | 270.30  | 5,579.50                           | 41.92   | 46.03                               | 56.64    | 0.94                                     | MWD         |
| 7/18/2015                                                    | 5,676.00  | 5.40                      | 270.30  | 5,674.18                           | 42.51   | 46.07                               | 48.86    | 1.47                                     | MWD         |
| 7/18/2015                                                    | 5,771.00  | 6.60                      | 268.30  | 5,768.66                           | 43.08   | 45.93                               | 38.93    | 1.28                                     | MWD         |
| 7/18/2015                                                    | 5,865.00  | 7.40                      | 270.80  | 5,861.96                           | 43.81   | 45.86                               | 27.48    | 0.91                                     | MWD         |
| 7/18/2015                                                    | 5,960.00  | 7.20                      | 270.10  | 5,956.19                           | 44.75   | 45.95                               | 15.41    | 0.23                                     | MWD         |
| 7/18/2015                                                    | 6,054.00  | 7.00                      | 269.00  | 6,049.47                           | 45.48   | 45.86                               | 3.79     | 0.26                                     | MWD         |
| 7/18/2015                                                    | 6,149.00  | 6.90                      | 268.20  | 6,143.77                           | 46.01   | 45.58                               | -7.70    | 0.15                                     | MWD         |
| 7/18/2015                                                    | 6,244.00  | 7.00                      | 267.80  | 6,238.07                           | 46.42   | 45.18                               | -19.19   | 0.12                                     | MWD         |
| 7/18/2015                                                    | 6,338.00  | 6.90                      | 269.70  | 6,331.38                           | 46.97   | 44.93                               | -30.56   | 0.27                                     | MWD         |
| 7/18/2015                                                    | 6,433.00  | 6.80                      | 271.00  | 6,425.70                           | 47.84   | 45.00                               | -41.89   | 0.19                                     | MWD         |
| 7/18/2015                                                    | 6,528.00  | 6.30                      | 271.70  | 6,520.08                           | 48.85   | 45.25                               | -52.72   | 0.53                                     | MWD         |

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Well Name: GAUCHO 21 FEDERAL 3H

| Sub-Division           |           | Region     | Field Name       |                    | County                 | State/Province       |              |               |             |                       |
|------------------------|-----------|------------|------------------|--------------------|------------------------|----------------------|--------------|---------------|-------------|-----------------------|
| DELAWARE BASIN EAST    |           | BASIN EAST | OJO CHISO        |                    | LEA                    | NM                   |              |               |             |                       |
| Surface Legal Location |           | AP/UM      | Latitude (°)     | Longitude (°)      | Orig KB Elevation (ft) | Ground Elev MSL (ft) | KB - GL (ft) |               |             |                       |
| SEC21 T2S R34E         |           | 3002542136 | 32° 22' 13.71" N | 103° 28' 44.052" W | 3,457.40               | 3,432.40             | 25.00        |               |             |                       |
| Survey Data            |           |            |                  |                    |                        |                      |              |               |             |                       |
| Date                   | MD (ft)   | Incl (°)   | Azm (°)          | TVD (ft)           | VS (ft)                | N/S (ft)             | EW (ft)      | DLS (°/100ft) | Survey Tool | Survey Company        |
| 7/18/2015              | 6,623.00  | 6.90       | 269.00           | 6,614.45           | 49.68                  | 45.31                | -63.64       | 0.71          | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 6,718.00  | 6.70       | 267.80           | 6,708.78           | 50.16                  | 45.00                | -74.88       | 0.26          | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 6,813.00  | 6.90       | 266.10           | 6,803.11           | 50.35                  | 44.39                | -86.11       | 0.30          | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 6,908.00  | 6.90       | 265.00           | 6,897.43           | 50.27                  | 43.51                | -97.49       | 0.14          | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 7,003.00  | 6.20       | 269.00           | 6,991.81           | 50.45                  | 42.92                | -108.31      | 0.88          | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 7,097.00  | 7.30       | 272.20           | 7,085.15           | 51.36                  | 43.06                | -119.35      | 1.24          | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 7,192.00  | 6.60       | 270.30           | 7,179.45           | 52.43                  | 43.32                | -130.84      | 0.78          | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 7,287.00  | 7.20       | 271.30           | 7,273.77           | 53.40                  | 43.49                | -142.25      | 0.64          | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 7,382.00  | 6.90       | 271.70           | 7,368.05           | 54.53                  | 43.79                | -153.91      | 0.32          | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 7,476.00  | 6.60       | 268.50           | 7,461.40           | 55.33                  | 43.82                | -164.95      | 0.51          | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 7,571.00  | 7.00       | 269.00           | 7,555.73           | 55.88                  | 43.57                | -176.20      | 0.43          | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 7,666.00  | 5.90       | 267.50           | 7,650.13           | 56.32                  | 43.26                | -186.86      | 1.17          | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 7,761.00  | 6.50       | 268.20           | 7,744.57           | 56.66                  | 42.88                | -197.12      | 0.64          | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 7,856.00  | 6.70       | 270.60           | 7,838.94           | 57.32                  | 42.77                | -208.03      | 0.36          | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 7,951.00  | 6.50       | 269.60           | 7,933.31           | 58.11                  | 42.79                | -218.95      | 0.24          | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 8,046.00  | 6.90       | 267.60           | 8,027.66           | 58.61                  | 42.51                | -230.03      | 0.49          | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 8,140.00  | 6.80       | 268.50           | 8,120.99           | 59.02                  | 42.13                | -241.23      | 0.16          | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 8,235.00  | 7.30       | 269.70           | 8,215.27           | 59.66                  | 41.95                | -252.89      | 0.55          | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 8,331.00  | 6.80       | 268.50           | 8,310.55           | 60.31                  | 41.77                | -264.67      | 0.54          | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 8,425.00  | 6.70       | 269.20           | 8,403.89           | 60.87                  | 41.55                | -275.72      | 0.14          | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 8,520.00  | 6.70       | 271.00           | 8,498.25           | 61.67                  | 41.57                | -286.80      | 0.22          | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 8,614.00  | 7.80       | 267.50           | 8,591.49           | 62.32                  | 41.38                | -298.66      | 1.26          | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 8,708.00  | 6.90       | 263.90           | 8,684.72           | 62.29                  | 40.50                | -310.64      | 1.08          | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 8,803.00  | 7.10       | 266.90           | 8,779.01           | 62.18                  | 39.58                | -322.18      | 0.44          | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 8,898.00  | 7.10       | 265.20           | 8,873.28           | 62.20                  | 38.77                | -333.89      | 0.22          | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 8,992.00  | 7.20       | 266.80           | 8,966.55           | 62.21                  | 37.96                | -345.56      | 0.24          | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 9,087.00  | 6.40       | 265.40           | 9,060.88           | 62.24                  | 37.20                | -356.79      | 0.86          | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 9,182.00  | 6.30       | 264.80           | 9,150.88           | 62.09                  | 36.30                | -367.26      | 0.13          | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 9,276.00  | 7.30       | 264.80           | 9,248.64           | 61.86                  | 35.29                | -378.34      | 1.06          | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 9,371.00  | 6.70       | 262.50           | 9,342.93           | 61.41                  | 34.02                | -389.84      | 0.70          | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 9,466.00  | 6.70       | 272.90           | 9,437.29           | 61.74                  | 33.58                | -400.87      | 1.28          | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 9,561.00  | 5.50       | 273.30           | 9,531.75           | 62.99                  | 34.12                | -410.95      | 1.26          | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 9,656.00  | 4.10       | 274.70           | 9,626.41           | 64.09                  | 34.66                | -418.88      | 1.48          | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 9,750.00  | 3.30       | 284.30           | 9,720.21           | 65.45                  | 35.61                | -424.86      | 1.07          | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 9,844.00  | 3.30       | 282.10           | 9,814.06           | 67.05                  | 36.84                | -430.12      | 0.13          | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 9,940.00  | 4.80       | 307.40           | 9,909.82           | 70.48                  | 39.86                | -436.02      | 2.39          | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 9,971.00  | 8.50       | 330.70           | 9,940.61           | 73.41                  | 42.65                | -438.17      | 14.54         | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 10,002.00 | 12.80      | 340.20           | 9,971.08           | 78.79                  | 47.88                | -440.45      | 14.94         | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 10,034.00 | 17.30      | 344.80           | 10,001.97          | 86.88                  | 55.81                | -442.90      | 14.54         | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 10,065.00 | 21.50      | 346.60           | 10,031.20          | 97.01                  | 65.79                | -445.43      | 13.68         | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 10,097.00 | 24.90      | 348.50           | 10,060.61          | 109.48                 | 78.10                | -448.13      | 10.88         | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 10,129.00 | 27.90      | 350.60           | 10,089.27          | 123.62                 | 92.09                | -450.70      | 9.82          | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 10,160.00 | 30.00      | 351.30           | 10,116.40          | 138.56                 | 106.91               | -453.06      | 6.86          | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 10,192.00 | 32.60      | 349.90           | 10,143.74          | 155.11                 | 123.31               | -455.78      | 8.44          | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 10,224.00 | 35.20      | 351.10           | 10,170.30          | 172.88                 | 140.91               | -458.72      | 8.39          | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 10,255.00 | 38.50      | 352.00           | 10,195.10          | 191.41                 | 159.30               | -461.44      | 10.79         | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 10,287.00 | 41.80      | 352.70           | 10,219.56          | 212.00                 | 179.74               | -464.19      | 10.41         | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 10,319.00 | 45.40      | 352.50           | 10,242.73          | 234.03                 | 201.62               | -467.03      | 11.26         | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 10,350.00 | 49.60      | 352.70           | 10,263.67          | 256.84                 | 224.28               | -469.97      | 13.56         | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 10,382.00 | 53.10      | 353.90           | 10,283.65          | 281.80                 | 249.10               | -472.88      | 11.32         | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 10,413.00 | 57.10      | 355.40           | 10,301.38          | 307.21                 | 274.41               | -475.24      | 13.50         | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 10,444.00 | 61.60      | 355.90           | 10,317.18          | 333.87                 | 300.99               | -477.26      | 14.58         | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 10,476.00 | 66.10      | 355.90           | 10,331.28          | 362.59                 | 329.64               | -479.31      | 14.06         | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 10,508.00 | 69.80      | 355.50           | 10,343.29          | 392.24                 | 359.21               | -481.54      | 11.62         | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 10,539.00 | 72.20      | 355.70           | 10,353.38          | 421.55                 | 388.43               | -483.79      | 7.77          | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 10,571.00 | 75.30      | 356.10           | 10,362.34          | 452.27                 | 419.07               | -485.98      | 9.76          | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 10,603.00 | 77.70      | 356.40           | 10,369.81          | 483.38                 | 450.12               | -488.02      | 7.56          | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 10,635.00 | 81.40      | 355.50           | 10,375.61          | 514.85                 | 481.50               | -490.24      | 11.89         | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 10,667.00 | 84.00      | 355.40           | 10,379.68          | 546.58                 | 513.14               | -492.76      | 8.13          | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 10,715.00 | 87.10      | 353.90           | 10,383.40          | 594.42                 | 560.78               | -497.22      | 7.17          | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 10,810.00 | 90.00      | 353.90           | 10,385.80          | 689.32                 | 655.20               | -507.31      | 3.05          | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 10,905.00 | 91.20      | 354.10           | 10,384.81          | 784.25                 | 749.67               | -517.24      | 1.28          | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 10,999.00 | 91.50      | 353.60           | 10,382.59          | 878.16                 | 843.11               | -527.31      | 0.62          | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 11,094.00 | 91.70      | 353.20           | 10,379.94          | 973.03                 | 937.44               | -538.22      | 0.47          | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 11,189.00 | 92.10      | 352.40           | 10,376.79          | 1,067.83               | 1,031.64             | -550.12      | 0.94          | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 11,284.00 | 91.10      | 352.70           | 10,374.14          | 1,162.63               | 1,125.80             | -562.44      | 1.10          | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 11,378.00 | 90.70      | 350.60           | 10,372.66          | 1,266.34               | 1,218.79             | -576.08      | 2.27          | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 11,473.00 | 89.90      | 350.40           | 10,372.17          | 1,350.91               | 1,312.48             | -591.76      | 0.87          | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 11,569.00 | 91.00      | 352.20           | 10,371.41          | 1,446.58               | 1,407.37             | -606.28      | 2.20          | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 11,664.00 | 90.20      | 353.40           | 10,370.42          | 1,541.43               | 1,501.61             | -618.19      | 1.52          | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 11,758.00 | 89.20      | 355.50           | 10,370.91          | 1,635.39               | 1,595.16             | -627.28      | 2.47          | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 11,853.00 | 89.00      | 357.60           | 10,372.40          | 1,730.37               | 1,689.97             | -633.00      | 2.22          | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 11,948.00 | 89.00      | 358.00           | 10,374.06          | 1,825.31               | 1,784.89             | -636.64      | 0.42          | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 12,043.00 | 89.60      | 359.00           | 10,375.22          | 1,920.20               | 1,879.85             | -639.13      | 1.23          | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 12,138.00 | 90.10      | 358.20           | 10,375.47          | 2,015.10               | 1,974.82             | -641.45      | 0.99          | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 12,233.00 | 90.70      | 357.80           | 10,374.81          | 2,110.04               | 2,069.76             | -644.76      | 0.76          | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015              | 12,327.00 | 91.30      | 358.70           | 10,373.17          | 2,203.95               | 2,163.70             | -647.64      | 1.15          | MWD         | LEAM DRILLING SYSTEMS |

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Report Printed: 12/14/2015

Well Name: GAUCHO 21 FEDERAL 3H

|                                           |                      |                                  |                                     |                                    |
|-------------------------------------------|----------------------|----------------------------------|-------------------------------------|------------------------------------|
| Sub-Division<br>DELAWARE BASIN EAST       | Region<br>BASIN EAST | Field Name<br>OJO CHISO          | County<br>LEA                       | State/Province<br>NM               |
| Surface Legal Location<br>SEC21 T22S R34E | APN/OW<br>3002542136 | Latitude (°)<br>32° 22' 13.71" N | Longitude (°)<br>103° 28' 44.052" W | Orig KB Elevation (ft)<br>3,457.40 |
|                                           |                      |                                  |                                     | Ground Elev MSL (ft)<br>3,432.40   |
|                                           |                      |                                  |                                     | KB - OL (ft)<br>25.00              |

| Survey Data |           |          |         |           |          |          |          |               |             |                       |
|-------------|-----------|----------|---------|-----------|----------|----------|----------|---------------|-------------|-----------------------|
| Date        | MD (ft)   | Incl (°) | Azm (°) | TVD (ft)  | VS (ft)  | N/S (ft) | E/W (ft) | DLS (°/100ft) | Survey Tool | Survey Company        |
| 7/18/2015   | 12,421.00 | 91.20    | 359.00  | 10,371.11 | 2,297.81 | 2,257.66 | -649.52  | 0.34          | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015   | 12,516.00 | 90.90    | 359.20  | 10,369.37 | 2,392.65 | 2,352.63 | -651.01  | 0.38          | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015   | 12,610.00 | 91.40    | 359.20  | 10,367.49 | 2,486.48 | 2,446.60 | -652.33  | 0.53          | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015   | 12,705.00 | 90.60    | 358.70  | 10,365.83 | 2,581.33 | 2,541.67 | -654.07  | 0.99          | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015   | 12,800.00 | 90.00    | 357.60  | 10,365.33 | 2,676.26 | 2,636.52 | -657.13  | 1.32          | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015   | 12,895.00 | 90.00    | 357.90  | 10,365.33 | 2,771.23 | 2,731.42 | -661.36  | 0.32          | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015   | 12,989.00 | 91.40    | 356.80  | 10,364.18 | 2,865.20 | 2,825.29 | -666.20  | 1.58          | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015   | 13,084.00 | 90.70    | 355.20  | 10,362.44 | 2,960.18 | 2,920.04 | -672.82  | 1.64          | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015   | 13,179.00 | 90.50    | 355.20  | 10,361.45 | 3,055.17 | 3,014.70 | -680.77  | 0.21          | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015   | 13,274.00 | 89.10    | 354.30  | 10,361.78 | 3,150.14 | 3,109.29 | -689.46  | 1.75          | MWD         | LEAM DRILLING SYSTEMS |
| 7/18/2015   | 13,369.00 | 89.90    | 355.00  | 10,362.61 | 3,245.11 | 3,203.88 | -698.32  | 1.12          | MWD         | LEAM DRILLING SYSTEMS |
| 7/26/2015   | 13,463.00 | 90.10    | 355.90  | 10,362.61 | 3,339.11 | 3,297.58 | -705.78  | 0.98          | MWD         | LEAM DRILLING SYSTEMS |
| 7/27/2015   | 13,557.00 | 89.50    | 355.40  | 10,362.94 | 3,433.11 | 3,391.31 | -712.91  | 0.83          | MWD         | LEAM DRILLING SYSTEMS |
| 7/27/2015   | 13,652.00 | 91.10    | 355.20  | 10,362.44 | 3,528.10 | 3,485.98 | -720.69  | 1.70          | MWD         | LEAM DRILLING SYSTEMS |
| 7/27/2015   | 13,746.00 | 90.80    | 354.70  | 10,360.88 | 3,622.07 | 3,579.60 | -728.96  | 0.62          | MWD         | LEAM DRILLING SYSTEMS |
| 7/27/2015   | 13,841.00 | 90.30    | 354.80  | 10,359.97 | 3,717.04 | 3,674.20 | -737.66  | 0.54          | MWD         | LEAM DRILLING SYSTEMS |
| 7/27/2015   | 13,936.00 | 92.30    | 355.70  | 10,357.81 | 3,812.00 | 3,768.85 | -745.52  | 2.31          | MWD         | LEAM DRILLING SYSTEMS |
| 7/27/2015   | 14,031.00 | 92.30    | 356.80  | 10,354.00 | 3,906.92 | 3,863.66 | -751.73  | 1.16          | MWD         | LEAM DRILLING SYSTEMS |
| 7/27/2015   | 14,125.00 | 92.30    | 356.90  | 10,350.23 | 4,000.84 | 3,957.35 | -756.89  | 0.11          | MWD         | LEAM DRILLING SYSTEMS |
| 7/27/2015   | 14,220.00 | 90.70    | 356.10  | 10,347.74 | 4,095.80 | 4,052.13 | -762.69  | 1.88          | MWD         | LEAM DRILLING SYSTEMS |
| 7/27/2015   | 14,316.00 | 90.50    | 356.60  | 10,346.74 | 4,191.79 | 4,147.93 | -768.80  | 0.56          | MWD         | LEAM DRILLING SYSTEMS |
| 7/27/2015   | 14,411.00 | 90.70    | 357.30  | 10,345.74 | 4,286.77 | 4,242.79 | -773.85  | 0.77          | MWD         | LEAM DRILLING SYSTEMS |
| 7/27/2015   | 14,505.00 | 89.60    | 357.30  | 10,345.50 | 4,380.74 | 4,336.69 | -778.28  | 1.17          | MWD         | LEAM DRILLING SYSTEMS |
| 7/27/2015   | 14,600.00 | 89.00    | 356.90  | 10,346.66 | 4,475.72 | 4,431.56 | -783.09  | 0.76          | MWD         | LEAM DRILLING SYSTEMS |
| 7/27/2015   | 14,694.00 | 88.40    | 357.10  | 10,348.79 | 4,569.68 | 4,525.40 | -788.01  | 0.67          | MWD         | LEAM DRILLING SYSTEMS |
| 7/27/2015   | 14,789.00 | 88.80    | 357.30  | 10,351.11 | 4,664.62 | 4,620.26 | -792.64  | 0.47          | MWD         | LEAM DRILLING SYSTEMS |
| 7/27/2015   | 14,883.00 | 88.50    | 357.10  | 10,352.85 | 4,738.59 | 4,694.15 | -796.26  | 0.49          | MWD         | LEAM DRILLING SYSTEMS |
| 7/27/2015   | 14,917.00 | 88.50    | 357.10  | 10,354.27 | 4,792.56 | 4,748.06 | -798.99  | 0.00          | BIT         | LEAM DRILLING SYSTEMS |