

# NMOCD Hobbs

Form 3160-4  
(August 2007)

## UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010

### WELL COMPLETION OR RECOMPLETION REPORT AND LOG

|                                                                                                                                                                                                                                                                                                                              |  |                                                                                                           |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------|--|
| 1a. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other                                                                                                                                                                  |  | 5. Lease Serial No.<br>NMNM66272                                                                          |  |
| b. Type of Completion <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr.<br>Other _____                                                                                                |  | 6. If Indian, Allottee or Tribe Name                                                                      |  |
| 2. Name of Operator<br>DEVON ENERGY PRODUCTION CO. L Mail: Lucretia.Morris@dmv.com                                                                                                                                                                                                                                           |  | 7. Unit or CA Agreement Name and No.<br>NMNM94480X                                                        |  |
| 3. Address 333 WEST SHERIDAN AVE<br>OKLAHOMA CITY, OK 73102                                                                                                                                                                                                                                                                  |  | 8. Lease Name and Well No.<br>GAUCHO UNIT 16H                                                             |  |
| 3a. Phone No. (include area code)<br>Ph: 405-552-3803                                                                                                                                                                                                                                                                        |  | 9. API Well No.<br>30-025-41853-00-S1                                                                     |  |
| 4. Location of Well (Report location clearly and in accordance with Federal requirements)*<br>At surface SESE 200FSL 370FEL 32.369937 N Lat, 103.500650 W Lon<br>At top prod interval reported below SESE 415FSL 620FEL<br>At total depth NENE 420FNL 1000FEL                                                                |  | 10. Field and Pool, or Exploratory<br>WC-025 G06 S223421L                                                 |  |
| 14. Date Spudded<br>07/07/2015                                                                                                                                                                                                                                                                                               |  | 15. Date T.D. Reached<br>07/27/2015                                                                       |  |
| 16. Date Completed<br><input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod.<br>10/18/2015                                                                                                                                                                                                        |  | 17. Elevations (DF, KB, RT, GL)*<br>3444 GL                                                               |  |
| 18. Total Depth: MD 14632<br>TVD 10393                                                                                                                                                                                                                                                                                       |  | 19. Plug Back T.D.: MD 14609<br>TVD                                                                       |  |
| 20. Depth Bridge Plug Set: MD<br>TVD                                                                                                                                                                                                                                                                                         |  | 21. Type Electric & Other Mechanical Logs Run (Submit copy of each)<br>BOREHOLEVOLUME PLOT 6-ARMCALIPERTO |  |
| 22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis)<br>Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis)<br>Directional Survey? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (Submit analysis) |  |                                                                                                           |  |

#### 23. Casing and Liner Record (Report all strings set in well)

| Hole Size | Size/Grade  | Wt. (#/ft.) | Top (MD) | Bottom (MD) | Stage Cementer Depth | No. of Sk. & Type of Cement | Slurry Vol. (BBL) | Cement Top* | Amount Pulled |
|-----------|-------------|-------------|----------|-------------|----------------------|-----------------------------|-------------------|-------------|---------------|
| 17.500    | 13.375 J55  | 54.5        | 0        | 1850        |                      | 1730                        |                   | 0           | 250           |
| 12.250    | 9.625 J55   | 40.0        | 0        | 5035        |                      | 2495                        |                   | 0           | 120           |
| 8.750     | 5.500 P-110 | 17.0        | 0        | 14622       |                      | 2275                        |                   | 444         | 0             |
|           | RYP         |             |          |             |                      |                             |                   |             |               |

#### 24. Tubing Record

| Size  | Depth Set (MD) | Packer Depth (MD) | Size | Depth Set (MD) | Packer Depth (MD) | Size | Depth Set (MD) | Packer Depth (MD) |
|-------|----------------|-------------------|------|----------------|-------------------|------|----------------|-------------------|
| 2.875 | 9764           |                   |      |                |                   |      |                |                   |

#### 25. Producing Intervals

| Formation      | Top   | Bottom | Perforated Interval | Size | No. Holes | Perf. Status |
|----------------|-------|--------|---------------------|------|-----------|--------------|
| A) BONE SPRING | 10655 | 14565  | 10655 TO 14565      |      | 611       | OPEN         |
| B)             |       |        |                     |      |           |              |
| C)             |       |        |                     |      |           |              |
| D)             |       |        |                     |      |           |              |

#### 26. Perforation Record

| Depth Interval | Amount and Type of Material                                                                          |
|----------------|------------------------------------------------------------------------------------------------------|
| 10655 TO 14565 | 18,680 GALS 15% HCL, 846,000# OTTAWA SAND 40/70, 2,443,000# OTTAWA SAND 30/50, 2,579,000# TERRA30/50 |

#### 27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

| Date First Produced | Test Date            | Hours Tested | Test Production | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr. API | Gas Gravity | Production Method |
|---------------------|----------------------|--------------|-----------------|---------|---------|-----------|-----------------------|-------------|-------------------|
| 10/18/2015          | 11/07/2015           | 24           | →               | 633.0   | 901.0   | 572.0     |                       |             | FLOW FROM WELL    |
| Choke Size          | Tbg. Press. Flwg. SI | Csg. Press.  | 24 Hr. Rate     | Oil BBL | Gas MCF | Water BBL | Gas:Oil Ratio         | Well Status |                   |
|                     | 300                  | 750.0        | →               | 633     | 901     | 572       | 1423                  | POW         |                   |

#### 28a. Production - Interval B

| Date First Produced | Test Date            | Hours Tested | Test Production | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr. API | Gas Gravity | Production Method |
|---------------------|----------------------|--------------|-----------------|---------|---------|-----------|-----------------------|-------------|-------------------|
|                     |                      |              | →               |         |         |           |                       |             |                   |
| Choke Size          | Tbg. Press. Flwg. SI | Csg. Press.  | 24 Hr. Rate     | Oil BBL | Gas MCF | Water BBL | Gas:Oil Ratio         | Well Status |                   |
|                     |                      |              | →               |         |         |           |                       |             |                   |

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #323656 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

**\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\***

MWB/OLD 2/3/2016

FEB 03 2016

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## 28b. Production - Interval C

| Date First Produced | Test Date                  | Hours Tested | Test Production<br>→ | Oil BBL | Gas MCF | Water BBL | Oil Gravity<br>Corr. API | Gas Gravity | Production Method |
|---------------------|----------------------------|--------------|----------------------|---------|---------|-----------|--------------------------|-------------|-------------------|
| Choke Size          | Tbg. Press.<br>Flwg.<br>SI | Csg. Press.  | 24 Hr. Rate<br>→     | Oil BBL | Gas MCF | Water BBL | Gas Oil Ratio            | Well Status |                   |

## 28c. Production - Interval D

| Date First Produced | Test Date                  | Hours Tested | Test Production<br>→ | Oil BBL | Gas MCF | Water BBL | Oil Gravity<br>Corr. API | Gas Gravity | Production Method |
|---------------------|----------------------------|--------------|----------------------|---------|---------|-----------|--------------------------|-------------|-------------------|
| Choke Size          | Tbg. Press.<br>Flwg.<br>SI | Csg. Press.  | 24 Hr. Rate<br>→     | Oil BBL | Gas MCF | Water BBL | Gas Oil Ratio            | Well Status |                   |

29. Disposition of Gas(Sold, used for fuel, vented, etc.)  
SOLD

## 30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

## 31. Formation (Log) Markers

| Formation                 | Top          | Bottom | Descriptions, Contents, etc. | Name                    | Top<br>Meas. Depth |
|---------------------------|--------------|--------|------------------------------|-------------------------|--------------------|
| DELAWARE<br>BONE SPRING   | 5067<br>8491 |        | OIL/GAS<br>OIL/GAS           | DELAWARE<br>BONE SPRING | 5067<br>8491       |
| <i>Other formations??</i> |              |        |                              |                         |                    |

## 32. Additional remarks (include plugging procedure):

Surface Casing: Cement circulated reported in bbls (250).

Intermediate Casing: Cement circulated reported in bbls (120). RIH W/ 99 jts 9-5/8" 40# J-55 BTC csg and 16 jts 9-5/8" 40# HCK-55 BTC csg, set @ 5035'.

Formation Bottom not reported - unknown.

## 33. Circle enclosed attachments:

- |                                                       |                    |               |                       |
|-------------------------------------------------------|--------------------|---------------|-----------------------|
| 1. Electrical/Mechanical Logs (1 full set req'd.)     | 2. Geologic Report | 3. DST Report | 4. Directional Survey |
| 5. Sundry Notice for plugging and cement verification | 6. Core Analysis   | 7 Other:      |                       |

## 34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #323656 Verified by the BLM Well Information System.  
For DEVON ENERGY PRODUCTION CO LP, sent to the Hobbs  
Committed to AFMSS for processing by LINDA JIMENEZ on 12/01/2015 (16LJ0214SE)

Name (please print) LUCRETIA MORRIS

Title REGULATORY COMPLIANCE PROFESSI

Signature (Electronic Submission)

Date 11/16/2015

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**\*\* REVISED \*\* REVISED \*\* REVISED \*\* REVISED \*\* REVISED \*\* REVISED \*\* REVISED \*\***

District I  
1625 N. French Dr., Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720  
District II  
811 S. First St., Artesia, NM 88210  
Phone: (575) 748-1283 Fax: (575) 748-9720  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico  
Energy, Minerals & Natural Resources Department  
OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-102  
Revised August 1, 2011  
Submit one copy to appropriate  
District Office

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

|                                                |  |                                                                            |  |                                                                    |                                         |
|------------------------------------------------|--|----------------------------------------------------------------------------|--|--------------------------------------------------------------------|-----------------------------------------|
| <sup>1</sup> API Number<br><b>30-025-41853</b> |  | <sup>2</sup> Pool Code<br><b>97922</b>                                     |  | <sup>3</sup> Pool Name<br><b>WC-025 G-06 S223421L; Bone Spring</b> |                                         |
| <sup>4</sup> Property Code<br><b>30863</b>     |  | <sup>5</sup> Property Name<br><b>GAUCHO UNIT</b>                           |  |                                                                    | <sup>6</sup> Well Number<br><b>16H</b>  |
| <sup>7</sup> OGRID No.<br><b>6137</b>          |  | <sup>8</sup> Operator Name<br><b>DEVON ENERGY PRODUCTION COMPANY, L.P.</b> |  |                                                                    | <sup>9</sup> Elevation<br><b>3444.1</b> |

<sup>10</sup> Surface Location

| UL or lot no. | Section   | Township    | Range       | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County     |
|---------------|-----------|-------------|-------------|---------|---------------|------------------|---------------|----------------|------------|
| <b>P</b>      | <b>19</b> | <b>22 S</b> | <b>34 E</b> |         | <b>200</b>    | <b>SOUTH</b>     | <b>370</b>    | <b>EAST</b>    | <b>LEA</b> |

<sup>11</sup> 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     |
|---------------|-----------|-------------|-------------|---------|---------------|------------------|---------------|----------------|------------|
| <b>A</b>      | <b>19</b> | <b>22 S</b> | <b>34 E</b> |         | <b>420</b>    | <b>NORTH</b>     | <b>1000</b>   | <b>EAST</b>    | <b>LEA</b> |

|                                             |                               |                                  |                         |
|---------------------------------------------|-------------------------------|----------------------------------|-------------------------|
| <sup>12</sup> Dedicated Acres<br><b>160</b> | <sup>13</sup> Joint or Infill | <sup>14</sup> Consolidation Code | <sup>15</sup> 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.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>N89°24'38"E 2619.32 FT</p> <p>NW CORNER SEC. 19<br/>LAT. = 32.3844151°N<br/>LONG. = 103.5175887°W<br/>NMSP EAST (FT)<br/>N = 504541.86<br/>E = 793151.52</p> <p>LOT 1</p> <p>LOT 2</p> <p>DNF</p> <p>NOTE: LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1983 (NAD83). LISTED NEW MEXICO STATE PLANE EAST COORDINATES ARE GRID (NAD83). BASIS OF BEARING AND DISTANCES USED ARE NEW MEXICO STATE PLANE EAST COORDINATES MODIFIED TO THE SURFACE.</p> <p>LOT 3</p> <p>SW CORNER SEC. 19<br/>LAT. = 32.3699312°N<br/>LONG. = 103.5175204°W<br/>NMSP EAST (FT)<br/>N = 499272.72<br/>E = 793212.80</p> <p>S89°32'14"W 2604.85 FT</p> |  | <p>N89°24'38"E 2619.32 FT</p> <p>NE CORNER SEC. 19<br/>LAT. = 32.3844151°N<br/>LONG. = 103.5006223°W<br/>NMSP EAST (FT)<br/>N = 504395.75<br/>E = 798188.98</p> <p>1000'</p> <p>420'</p> <p>BOTTOM OF HOLE</p> <p>BOTTOM OF HOLE<br/>LAT. = 32.3835421°N<br/>LONG. = 103.5027639°W<br/>NMSP EAST (FT)<br/>N = 504259.48<br/>E = 797729.82</p> <p>SE CORNER SEC. 19<br/>LAT. = 32.3771965°N<br/>LONG. = 103.5006384°W<br/>NMSP EAST (FT)<br/>N = 501956.01<br/>E = 798404.55</p> <p>GAUCHO UNIT #16H<br/>ELEV. = 3444.1<br/>LAT. = 32.3701860°N (NAD83)<br/>LONG. = 103.5018476°W<br/>NMSP EAST (FT)<br/>N = 499511.79<br/>E = 798050.23</p> <p>SURFACE LOCATION</p> <p>SE CORNER SEC. 19<br/>LAT. = 32.3699366°N<br/>LONG. = 103.5006303°W<br/>NMSP EAST (FT)<br/>N = 499344.79<br/>E = 798421.43</p> <p>S89°32'14"W 2604.85 FT</p> |  | <p><sup>17</sup> OPERATOR CERTIFICATION</p> <p>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 undivided 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.</p> <p><i>Lucretia Morris</i> 8/26/2015<br/>Signature Date</p> <p><b>Lucretia Morris, Regulatory Analyst</b><br/>Printed Name</p> <p><b>Lucretia.Morris@dm.com</b><br/>E-mail Address</p> <p><sup>18</sup> SURVEYOR CERTIFICATION</p> <p>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.</p> <p>NOVEMBER 16, 2013<br/>Date of Survey</p> <p><i>[Signature]</i><br/>Signature and Seal of Professional Surveyor</p> <p>Certificate Number <b>12797</b><br/>E. L. MON F. LARCA MILLO, PLS 12797</p> <p>SURVEY NO. 2028A</p> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

PP: 415' FSL & 620' FEL, Sec 19, T22S, R34E

Project Area:

Producing Area:

## Well Name: GAUCHO UNIT 16H

|                                          |                      |                                   |                                    |                                    |
|------------------------------------------|----------------------|-----------------------------------|------------------------------------|------------------------------------|
| Sub-Division<br>DELAWARE BASIN EAST      | Region<br>BASIN EAST | Field Name<br>OJO CHISO           | County<br>BEE                      | State/Province<br>NM               |
| Surface Legal Location<br>SEC 19 22S 34E | APN/UM<br>3002541853 | Latitude (°)<br>32° 22' 13.249" N | Longitude (°)<br>103° 30' 8.723" W | Orig KB Elevation (ft)<br>3,467.10 |
|                                          |                      |                                   |                                    | Ground Elev MSL (ft)<br>3,442.10   |
|                                          |                      |                                   |                                    | KB - GL (ft)<br>25.00              |

|                     |                       |                      |                                          |
|---------------------|-----------------------|----------------------|------------------------------------------|
| Wellbore Name<br>OH | Parent Wellbore<br>OH | SAP Well ID<br>38604 | Vertical Section Direction (°)<br>356.14 |
|---------------------|-----------------------|----------------------|------------------------------------------|

|                                                      |                    |                           |                           |
|------------------------------------------------------|--------------------|---------------------------|---------------------------|
| Kick Offs & Key Depths                               |                    |                           |                           |
| Date<br>7/21/2015                                    | Type<br>KICK OFF   | Top Depth (ft)<br>9,791.0 |                           |
| Actual Deviation Survey<br>EXTREME-MWD, Proposed? No | Definitive?<br>Yes | Proposed?<br>No           | Proposed Deviation Survey |

|                   |                            |                        |                    |
|-------------------|----------------------------|------------------------|--------------------|
| Deviation Survey  |                            |                        |                    |
| Date<br>7/21/2015 | Description<br>EXTREME-MWD |                        |                    |
| MD Tie In (ft)    | TVD Tie In (ft)            | Inclination Tie In (°) | Azimuth Tie In (°) |
|                   |                            |                        | NS Tie In (ft)     |
|                   |                            |                        | EW Tie In (ft)     |

| Survey Data |          |          |         |          |         |         |         |               |             |                |
|-------------|----------|----------|---------|----------|---------|---------|---------|---------------|-------------|----------------|
| Date        | MD (ft)  | Incl (°) | Azm (°) | TVD (ft) | VS (ft) | NS (ft) | EW (ft) | DLS (°/100ft) | Survey Tool | Survey Company |
| 7/21/2015   | 0.00     | 0.00     | 0.00    | 0.00     | 0.00    | 0.00    | 0.00    | 0.00          | GYRO        | EXTREME        |
| 7/21/2015   | 136.00   | 1.01     | 118.78  | 135.99   | -0.65   | -0.58   | 1.05    | 0.74          | GYRO        | EXTREME        |
| 7/21/2015   | 225.00   | 1.01     | 186.20  | 224.98   | -1.84   | -1.73   | 1.65    | 1.28          | GYRO        | EXTREME        |
| 7/21/2015   | 330.00   | 0.88     | 167.08  | 329.97   | -3.55   | -3.44   | 1.73    | 0.32          | GYRO        | EXTREME        |
| 7/21/2015   | 409.00   | 0.88     | 154.12  | 408.96   | -4.71   | -4.58   | 2.13    | 0.25          | GYRO        | EXTREME        |
| 7/21/2015   | 501.00   | 0.48     | 162.51  | 500.95   | -5.74   | -5.58   | 2.56    | 0.45          | GYRO        | EXTREME        |
| 7/21/2015   | 592.00   | 0.09     | 88.90   | 591.95   | -6.11   | -5.94   | 2.74    | 0.51          | GYRO        | EXTREME        |
| 7/21/2015   | 654.00   | 0.10     | 81.39   | 653.95   | -6.11   | -5.93   | 2.85    | 0.03          | GYRO        | EXTREME        |
| 7/21/2015   | 749.00   | 1.49     | 326.82  | 748.94   | -5.03   | -4.89   | 2.25    | 1.62          | GYRO        | EXTREME        |
| 7/21/2015   | 837.00   | 2.02     | 354.20  | 836.90   | -2.48   | -2.39   | 1.47    | 1.11          | GYRO        | EXTREME        |
| 7/21/2015   | 933.00   | 2.90     | 355.78  | 932.81   | 1.64    | 1.72    | 1.12    | 0.92          | GYRO        | EXTREME        |
| 7/21/2015   | 1,027.00 | 3.69     | 358.20  | 1,026.65 | 7.04    | 7.11    | 0.85    | 0.85          | GYRO        | EXTREME        |
| 7/21/2015   | 1,122.00 | 3.91     | 2.20    | 1,121.45 | 13.32   | 13.41   | 0.88    | 0.36          | GYRO        | EXTREME        |
| 7/21/2015   | 1,216.00 | 3.69     | 7.60    | 1,215.24 | 19.47   | 19.61   | 1.40    | 0.45          | GYRO        | EXTREME        |
| 7/21/2015   | 1,310.00 | 4.22     | 14.41   | 1,309.02 | 25.72   | 25.95   | 2.66    | 0.75          | GYRO        | EXTREME        |
| 7/21/2015   | 1,405.00 | 4.61     | 19.38   | 1,403.73 | 32.54   | 32.94   | 4.80    | 0.57          | GYRO        | EXTREME        |
| 7/21/2015   | 1,499.00 | 4.70     | 17.49   | 1,497.42 | 39.60   | 40.18   | 7.21    | 0.19          | GYRO        | EXTREME        |
| 7/21/2015   | 1,594.00 | 4.48     | 21.09   | 1,592.12 | 46.59   | 47.35   | 9.71    | 0.38          | GYRO        | EXTREME        |
| 7/21/2015   | 1,688.00 | 4.48     | 21.80   | 1,685.83 | 53.23   | 54.19   | 12.40   | 0.06          | GYRO        | EXTREME        |
| 7/21/2015   | 1,747.00 | 4.09     | 22.98   | 1,744.67 | 57.18   | 58.26   | 14.08   | 0.68          | GYRO        | EXTREME        |
| 7/21/2015   | 1,885.00 | 3.12     | 28.39   | 1,882.39 | 64.75   | 66.10   | 17.78   | 0.74          | GYRO        | EXTREME        |
| 7/21/2015   | 1,974.00 | 2.59     | 23.12   | 1,971.28 | 68.59   | 70.08   | 19.72   | 0.66          | GYRO        | EXTREME        |
| 7/21/2015   | 2,074.00 | 2.59     | 25.62   | 2,071.18 | 72.57   | 74.19   | 21.59   | 0.11          | GYRO        | EXTREME        |
| 7/21/2015   | 2,169.00 | 2.81     | 26.81   | 2,166.07 | 76.44   | 78.21   | 23.57   | 0.24          | GYRO        | EXTREME        |
| 7/21/2015   | 2,263.00 | 3.30     | 29.59   | 2,259.94 | 80.68   | 82.61   | 25.94   | 0.54          | GYRO        | EXTREME        |
| 7/21/2015   | 2,357.00 | 3.52     | 30.98   | 2,353.77 | 85.31   | 87.44   | 28.76   | 0.25          | GYRO        | EXTREME        |
| 7/21/2015   | 2,451.00 | 3.60     | 31.60   | 2,447.59 | 90.08   | 92.43   | 31.80   | 0.09          | GYRO        | EXTREME        |
| 7/21/2015   | 2,599.00 | 3.78     | 31.20   | 2,595.29 | 97.86   | 100.56  | 36.76   | 0.12          | GYRO        | EXTREME        |
| 7/21/2015   | 2,694.00 | 4.09     | 33.31   | 2,690.06 | 103.12  | 106.07  | 40.24   | 0.36          | GYRO        | EXTREME        |
| 7/21/2015   | 2,789.00 | 4.48     | 35.82   | 2,784.80 | 108.68  | 111.91  | 44.27   | 0.46          | GYRO        | EXTREME        |
| 7/21/2015   | 2,883.00 | 4.09     | 38.58   | 2,878.53 | 113.97  | 117.51  | 48.51   | 0.47          | GYRO        | EXTREME        |
| 7/21/2015   | 2,978.00 | 4.09     | 38.50   | 2,973.29 | 118.98  | 122.81  | 52.73   | 0.01          | GYRO        | EXTREME        |
| 7/21/2015   | 3,073.00 | 4.00     | 42.01   | 3,068.06 | 123.79  | 127.92  | 57.06   | 0.28          | GYRO        | EXTREME        |
| 7/21/2015   | 3,166.00 | 4.09     | 46.98   | 3,160.82 | 128.14  | 132.59  | 61.65   | 0.39          | GYRO        | EXTREME        |
| 7/21/2015   | 3,261.00 | 4.39     | 48.00   | 3,255.56 | 132.53  | 137.34  | 66.83   | 0.33          | GYRO        | EXTREME        |
| 7/21/2015   | 3,356.00 | 4.00     | 48.20   | 3,350.31 | 136.81  | 141.98  | 72.01   | 0.41          | GYRO        | EXTREME        |
| 7/21/2015   | 3,450.00 | 3.38     | 49.50   | 3,444.11 | 140.48  | 145.96  | 76.56   | 0.67          | GYRO        | EXTREME        |
| 7/21/2015   | 3,543.00 | 2.99     | 48.60   | 3,536.97 | 143.59  | 149.35  | 80.46   | 0.42          | GYRO        | EXTREME        |
| 7/21/2015   | 3,637.00 | 2.81     | 52.52   | 3,630.85 | 146.36  | 152.37  | 84.13   | 0.28          | GYRO        | EXTREME        |
| 7/21/2015   | 3,735.00 | 2.90     | 54.00   | 3,728.73 | 149.01  | 155.29  | 88.04   | 0.12          | GYRO        | EXTREME        |
| 7/21/2015   | 3,829.00 | 2.68     | 55.28   | 3,822.62 | 151.40  | 157.94  | 91.77   | 0.24          | GYRO        | EXTREME        |
| 7/21/2015   | 3,923.00 | 2.20     | 52.60   | 3,916.53 | 153.53  | 160.29  | 95.01   | 0.52          | GYRO        | EXTREME        |
| 7/21/2015   | 4,021.00 | 1.80     | 42.72   | 4,014.47 | 155.62  | 162.56  | 97.55   | 0.54          | GYRO        | EXTREME        |
| 7/21/2015   | 4,111.00 | 1.71     | 19.51   | 4,104.43 | 157.83  | 164.86  | 98.96   | 0.79          | GYRO        | EXTREME        |
| 7/21/2015   | 4,205.00 | 2.02     | 11.69   | 4,198.38 | 160.71  | 167.81  | 99.76   | 0.43          | GYRO        | EXTREME        |
| 7/21/2015   | 4,300.00 | 1.71     | 11.12   | 4,293.33 | 163.69  | 170.84  | 100.37  | 0.33          | GYRO        | EXTREME        |
| 7/21/2015   | 4,393.00 | 2.11     | 357.20  | 4,386.28 | 166.75  | 173.91  | 100.56  | 0.66          | GYRO        | EXTREME        |
| 7/21/2015   | 4,488.00 | 2.59     | 337.02  | 4,481.20 | 170.52  | 177.63  | 99.63   | 1.00          | GYRO        | EXTREME        |
| 7/21/2015   | 4,582.00 | 2.20     | 340.80  | 4,575.12 | 174.27  | 181.29  | 98.21   | 0.45          | GYRO        | EXTREME        |
| 7/21/2015   | 4,677.00 | 2.02     | 338.91  | 4,670.05 | 177.63  | 184.58  | 97.01   | 0.20          | GYRO        | EXTREME        |
| 7/21/2015   | 4,771.00 | 2.20     | 337.72  | 4,763.99 | 180.92  | 187.79  | 95.73   | 0.20          | GYRO        | EXTREME        |
| 7/21/2015   | 4,867.00 | 2.20     | 338.38  | 4,859.92 | 184.42  | 191.21  | 94.35   | 0.03          | GYRO        | EXTREME        |
| 7/21/2015   | 4,975.00 | 2.29     | 340.49  | 4,967.84 | 188.48  | 195.17  | 92.87   | 0.11          | GYRO        | EXTREME        |
| 7/21/2015   | 5,084.00 | 2.02     | 341.41  | 5,076.76 | 192.43  | 199.04  | 91.53   | 0.25          | GYRO        | EXTREME        |
| 7/21/2015   | 5,178.00 | 2.11     | 341.19  | 5,170.70 | 195.71  | 202.25  | 90.44   | 0.10          | GYRO        | EXTREME        |
| 7/21/2015   | 5,273.00 | 1.89     | 339.61  | 5,265.84 | 198.90  | 205.38  | 89.33   | 0.24          | GYRO        | EXTREME        |
| 7/21/2015   | 5,368.00 | 1.89     | 335.92  | 5,360.59 | 201.87  | 208.28  | 88.15   | 0.13          | GYRO        | EXTREME        |
| 7/21/2015   | 5,462.00 | 1.89     | 327.79  | 5,454.54 | 204.69  | 211.00  | 86.69   | 0.29          | GYRO        | EXTREME        |
| 7/21/2015   | 5,556.00 | 1.89     | 322.60  | 5,548.49 | 207.34  | 213.55  | 84.92   | 0.18          | GYRO        | EXTREME        |
| 7/21/2015   | 5,652.00 | 1.71     | 319.31  | 5,644.44 | 209.81  | 215.89  | 83.02   | 0.22          | GYRO        | EXTREME        |
| 7/21/2015   | 5,747.00 | 1.49     | 316.19  | 5,739.40 | 211.89  | 217.86  | 81.25   | 0.25          | GYRO        | EXTREME        |
| 7/21/2015   | 5,840.00 | 1.49     | 313.81  | 5,832.37 | 213.71  | 219.56  | 79.54   | 0.07          | GYRO        | EXTREME        |
| 7/21/2015   | 5,934.00 | 1.49     | 312.89  | 5,926.34 | 215.51  | 221.24  | 77.76   | 0.03          | GYRO        | EXTREME        |
| 7/21/2015   | 6,029.00 | 1.43     | 308.40  | 6,021.31 | 217.20  | 222.82  | 75.92   | 0.14          | GYRO        | EXTREME        |
| 7/21/2015   | 6,124.00 | 1.41     | 302.21  | 6,116.28 | 218.69  | 224.18  | 74.01   | 0.16          | GYRO        | EXTREME        |
| 7/21/2015   | 6,217.00 | 1.49     | 300.98  | 6,209.25 | 220.05  | 225.41  | 72.00   | 0.09          | GYRO        | EXTREME        |



## Directional Survey

Well Name: GAUCHO UNIT 16H

|                                          |                      |                                   |                                    |                                    |
|------------------------------------------|----------------------|-----------------------------------|------------------------------------|------------------------------------|
| 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>SEC 19 22S 34E | APR/VL<br>8002541653 | Latitude (°)<br>32° 22' 13.249" N | Longitude (°)<br>103° 30' 8.723" W | Orig KB Elevation (ft)<br>3,467.10 |
|                                          |                      |                                   |                                    | Ground Elev MSL (ft)<br>3,442.10   |
|                                          |                      |                                   |                                    | KB - GL (ft)<br>25.00              |

| Survey Data |           |          |         |           |          |          |         |                |             |                |
|-------------|-----------|----------|---------|-----------|----------|----------|---------|----------------|-------------|----------------|
| Date        | MD (ft)   | Incl (°) | Azm (°) | TVD (ft)  | VS (ft)  | NS (ft)  | EW (ft) | DLS (ft/100ft) | Survey Tool | Survey Company |
| 7/21/2015   | 6,312.00  | 1.49     | 300.81  | 6,304.22  | 221.46   | 226.68   | 69.88   | 0.00           | GYRO        | EXTREME        |
| 7/21/2015   | 6,407.00  | 1.41     | 303.18  | 6,399.19  | 222.87   | 227.95   | 67.84   | 0.11           | GYRO        | EXTREME        |
| 7/21/2015   | 6,501.00  | 1.32     | 303.00  | 6,493.16  | 224.21   | 229.17   | 65.97   | 0.10           | GYRO        | EXTREME        |
| 7/21/2015   | 6,594.00  | 1.19     | 301.99  | 6,586.14  | 225.42   | 230.27   | 64.25   | 0.14           | GYRO        | EXTREME        |
| 7/21/2015   | 6,690.00  | 1.19     | 297.20  | 6,682.12  | 226.52   | 231.25   | 62.52   | 0.10           | GYRO        | EXTREME        |
| 7/21/2015   | 6,784.00  | 1.10     | 294.61  | 6,776.10  | 227.45   | 232.07   | 60.83   | 0.11           | GYRO        | EXTREME        |
| 7/21/2015   | 6,879.00  | 1.19     | 296.90  | 6,871.08  | 228.39   | 232.90   | 59.12   | 0.11           | GYRO        | EXTREME        |
| 7/21/2015   | 6,975.00  | 1.01     | 302.52  | 6,967.06  | 229.40   | 233.81   | 57.52   | 0.22           | GYRO        | EXTREME        |
| 7/21/2015   | 7,069.00  | 0.88     | 301.42  | 7,061.05  | 230.31   | 234.63   | 56.20   | 0.14           | GYRO        | EXTREME        |
| 7/21/2015   | 7,164.00  | 0.62     | 276.88  | 7,156.04  | 230.83   | 235.07   | 55.07   | 0.43           | GYRO        | EXTREME        |
| 7/21/2015   | 7,259.00  | 0.40     | 229.61  | 7,251.04  | 230.72   | 234.91   | 54.31   | 0.48           | GYRO        | EXTREME        |
| 7/21/2015   | 7,350.00  | 0.40     | 206.59  | 7,342.03  | 230.26   | 234.42   | 53.92   | 0.18           | GYRO        | EXTREME        |
| 7/21/2015   | 7,445.00  | 0.48     | 205.01  | 7,437.03  | 229.63   | 233.77   | 53.61   | 0.09           | GYRO        | EXTREME        |
| 7/21/2015   | 7,540.00  | 0.70     | 201.49  | 7,532.03  | 228.75   | 232.87   | 53.23   | 0.23           | GYRO        | EXTREME        |
| 7/21/2015   | 7,636.00  | 0.48     | 190.68  | 7,628.02  | 227.84   | 231.93   | 52.94   | 0.26           | GYRO        | EXTREME        |
| 7/21/2015   | 7,731.00  | 0.62     | 178.42  | 7,723.02  | 226.94   | 231.02   | 52.88   | 0.19           | GYRO        | EXTREME        |
| 7/21/2015   | 7,823.00  | 0.40     | 173.01  | 7,815.01  | 226.12   | 230.20   | 52.93   | 0.24           | GYRO        | EXTREME        |
| 7/21/2015   | 7,918.00  | 0.31     | 188.00  | 7,910.01  | 225.54   | 229.62   | 52.93   | 0.14           | GYRO        | EXTREME        |
| 7/21/2015   | 8,015.00  | 0.09     | 263.98  | 8,007.01  | 225.28   | 229.35   | 52.82   | 0.31           | GYRO        | EXTREME        |
| 7/21/2015   | 8,106.00  | 0.09     | 169.72  | 8,098.01  | 225.20   | 229.27   | 52.76   | 0.14           | GYRO        | EXTREME        |
| 7/21/2015   | 8,200.00  | 0.09     | 164.88  | 8,192.01  | 225.06   | 229.13   | 52.80   | 0.01           | GYRO        | EXTREME        |
| 7/21/2015   | 8,295.00  | 0.22     | 101.60  | 8,287.01  | 224.93   | 229.02   | 52.99   | 0.21           | GYRO        | EXTREME        |
| 7/21/2015   | 8,390.00  | 0.31     | 104.50  | 8,382.01  | 224.81   | 228.92   | 53.42   | 0.10           | GYRO        | EXTREME        |
| 7/21/2015   | 8,484.00  | 0.48     | 67.98   | 8,476.01  | 224.85   | 229.00   | 54.03   | 0.31           | GYRO        | EXTREME        |
| 7/21/2015   | 8,582.00  | 0.88     | 59.59   | 8,574.00  | 225.31   | 229.54   | 55.06   | 0.42           | GYRO        | EXTREME        |
| 7/21/2015   | 8,674.00  | 1.10     | 80.29   | 8,665.99  | 225.72   | 230.05   | 56.54   | 0.45           | GYRO        | EXTREME        |
| 7/21/2015   | 8,767.00  | 1.10     | 74.13   | 8,758.97  | 225.99   | 230.44   | 58.28   | 0.13           | GYRO        | EXTREME        |
| 7/21/2015   | 8,863.00  | 1.10     | 86.09   | 8,854.95  | 226.19   | 230.76   | 60.09   | 0.24           | GYRO        | EXTREME        |
| 7/21/2015   | 8,957.00  | 0.88     | 99.44   | 8,948.94  | 226.02   | 230.70   | 61.70   | 0.34           | GYRO        | EXTREME        |
| 7/21/2015   | 9,052.00  | 0.62     | 116.20  | 9,043.93  | 225.60   | 230.35   | 62.88   | 0.36           | GYRO        | EXTREME        |
| 7/21/2015   | 9,147.00  | 0.48     | 166.60  | 9,138.93  | 224.95   | 229.74   | 63.43   | 0.51           | GYRO        | EXTREME        |
| 7/21/2015   | 9,241.00  | 0.48     | 195.29  | 9,232.92  | 224.19   | 228.98   | 63.42   | 0.25           | GYRO        | EXTREME        |
| 7/21/2015   | 9,338.00  | 0.80     | 255.81  | 9,329.92  | 223.68   | 228.42   | 62.66   | 0.72           | GYRO        | EXTREME        |
| 7/21/2015   | 9,431.00  | 1.41     | 260.11  | 9,422.90  | 223.44   | 228.06   | 60.90   | 0.66           | GYRO        | EXTREME        |
| 7/21/2015   | 9,524.00  | 1.58     | 263.80  | 9,515.87  | 223.27   | 227.73   | 58.50   | 0.21           | GYRO        | EXTREME        |
| 7/21/2015   | 9,695.00  | 1.19     | 245.70  | 9,686.82  | 222.56   | 226.74   | 54.54   | 0.34           | GYRO        | EXTREME        |
| 7/21/2015   | 9,741.00  | 1.10     | 234.52  | 9,732.81  | 222.16   | 226.29   | 53.74   | 0.52           | MWD         | WEATHERFORD    |
| 7/21/2015   | 9,773.00  | 1.19     | 235.07  | 9,764.80  | 221.83   | 225.92   | 53.22   | 0.28           | MWD         | WEATHERFORD    |
| 7/21/2015   | 9,804.00  | 2.77     | 306.34  | 9,795.79  | 222.14   | 226.18   | 52.35   | 8.52           | MWD         | WEATHERFORD    |
| 7/21/2015   | 9,836.00  | 6.26     | 322.61  | 9,827.68  | 224.09   | 228.02   | 50.67   | 11.48          | MWD         | WEATHERFORD    |
| 7/21/2015   | 9,867.00  | 9.90     | 336.24  | 9,858.38  | 228.01   | 231.80   | 48.57   | 13.22          | MWD         | WEATHERFORD    |
| 7/21/2015   | 9,899.00  | 13.64    | 338.49  | 9,889.70  | 234.19   | 237.83   | 46.08   | 11.77          | MWD         | WEATHERFORD    |
| 7/21/2015   | 9,930.00  | 16.77    | 340.61  | 9,919.61  | 241.99   | 245.46   | 43.25   | 10.25          | MWD         | WEATHERFORD    |
| 7/21/2015   | 9,962.00  | 19.83    | 341.73  | 9,949.99  | 251.69   | 254.97   | 40.02   | 9.63           | MWD         | WEATHERFORD    |
| 7/21/2015   | 9,993.00  | 22.88    | 346.18  | 9,978.86  | 262.73   | 265.81   | 36.93   | 11.13          | MWD         | WEATHERFORD    |
| 7/21/2015   | 10,025.00 | 26.63    | 346.04  | 10,007.91 | 275.92   | 278.82   | 33.71   | 11.72          | MWD         | WEATHERFORD    |
| 7/21/2015   | 10,057.00 | 30.79    | 346.52  | 10,035.97 | 291.06   | 293.75   | 30.07   | 13.02          | MWD         | WEATHERFORD    |
| 7/21/2015   | 10,088.00 | 34.63    | 349.80  | 10,062.07 | 307.62   | 310.12   | 26.66   | 13.34          | MWD         | WEATHERFORD    |
| 7/21/2015   | 10,120.00 | 38.42    | 351.25  | 10,087.79 | 326.55   | 328.88   | 23.54   | 12.45          | MWD         | WEATHERFORD    |
| 7/21/2015   | 10,151.00 | 41.79    | 352.18  | 10,111.50 | 346.46   | 348.64   | 20.67   | 11.04          | MWD         | WEATHERFORD    |
| 7/21/2015   | 10,183.00 | 44.22    | 353.76  | 10,134.90 | 368.25   | 370.30   | 18.01   | 8.31           | MWD         | WEATHERFORD    |
| 7/21/2015   | 10,214.00 | 46.47    | 354.87  | 10,156.69 | 390.29   | 392.24   | 15.83   | 7.69           | MWD         | WEATHERFORD    |
| 7/21/2015   | 10,245.00 | 49.43    | 355.62  | 10,177.45 | 413.30   | 415.18   | 13.92   | 9.72           | MWD         | WEATHERFORD    |
| 7/21/2015   | 10,277.00 | 52.54    | 355.05  | 10,197.59 | 438.16   | 439.96   | 11.90   | 9.82           | MWD         | WEATHERFORD    |
| 7/21/2015   | 10,309.00 | 55.80    | 355.42  | 10,216.32 | 464.10   | 465.81   | 9.75    | 10.23          | MWD         | WEATHERFORD    |
| 7/21/2015   | 10,340.00 | 58.85    | 355.73  | 10,233.06 | 490.19   | 491.82   | 7.73    | 9.87           | MWD         | WEATHERFORD    |
| 7/21/2015   | 10,372.00 | 61.94    | 355.95  | 10,248.86 | 518.00   | 519.57   | 5.72    | 9.67           | MWD         | WEATHERFORD    |
| 7/21/2015   | 10,403.00 | 64.53    | 356.02  | 10,262.82 | 545.68   | 547.18   | 3.78    | 8.36           | MWD         | WEATHERFORD    |
| 7/21/2015   | 10,435.00 | 66.86    | 355.57  | 10,275.99 | 574.84   | 576.26   | 1.64    | 7.39           | MWD         | WEATHERFORD    |
| 7/21/2015   | 10,466.00 | 68.34    | 355.31  | 10,287.80 | 603.50   | 604.83   | -0.64   | 4.84           | MWD         | WEATHERFORD    |
| 7/21/2015   | 10,498.00 | 70.38    | 354.69  | 10,299.08 | 633.44   | 634.66   | -3.25   | 6.63           | MWD         | WEATHERFORD    |
| 7/21/2015   | 10,529.00 | 72.58    | 354.63  | 10,308.93 | 662.82   | 663.92   | -5.99   | 7.10           | MWD         | WEATHERFORD    |
| 7/21/2015   | 10,561.00 | 74.42    | 355.09  | 10,318.02 | 693.49   | 694.48   | -8.73   | 5.91           | MWD         | WEATHERFORD    |
| 7/21/2015   | 10,592.00 | 76.01    | 355.04  | 10,325.93 | 723.46   | 724.34   | -11.31  | 5.13           | MWD         | WEATHERFORD    |
| 7/21/2015   | 10,624.00 | 77.51    | 355.37  | 10,333.26 | 754.61   | 755.38   | -13.92  | 4.79           | MWD         | WEATHERFORD    |
| 7/21/2015   | 10,655.00 | 78.81    | 355.04  | 10,339.62 | 784.94   | 785.82   | -16.45  | 4.32           | MWD         | WEATHERFORD    |
| 7/21/2015   | 10,687.00 | 79.81    | 354.90  | 10,345.55 | 816.38   | 816.94   | -19.21  | 3.15           | MWD         | WEATHERFORD    |
| 7/21/2015   | 10,716.00 | 80.89    | 355.29  | 10,350.42 | 844.96   | 845.42   | -21.65  | 3.95           | MWD         | WEATHERFORD    |
| 7/21/2015   | 10,748.00 | 82.43    | 355.04  | 10,355.06 | 876.62   | 876.97   | -24.32  | 4.87           | MWD         | WEATHERFORD    |
| 7/21/2015   | 10,779.00 | 83.06    | 354.46  | 10,358.97 | 907.36   | 907.59   | -27.14  | 2.75           | MWD         | WEATHERFORD    |
| 7/21/2015   | 10,811.00 | 84.25    | 354.48  | 10,362.51 | 939.15   | 939.25   | -30.20  | 3.72           | MWD         | WEATHERFORD    |
| 7/21/2015   | 10,842.00 | 85.46    | 355.33  | 10,365.29 | 970.02   | 970.00   | -32.94  | 4.76           | MWD         | WEATHERFORD    |
| 7/21/2015   | 10,905.00 | 86.99    | 355.00  | 10,369.44 | 1,032.87 | 1,032.64 | -38.24  | 2.48           | MWD         | WEATHERFORD    |
| 7/21/2015   | 11,000.00 | 88.88    | 355.80  | 10,372.86 | 1,127.80 | 1,127.27 | -45.85  | 2.16           | MWD         | WEATHERFORD    |
| 7/21/2015   | 11,094.00 | 90.07    | 356.69  | 10,373.72 | 1,221.79 | 1,221.06 | -52.01  | 1.58           | MWD         | WEATHERFORD    |
| 7/21/2015   | 11,189.00 | 90.56    | 356.70  | 10,373.20 | 1,316.78 | 1,315.90 | -57.49  | 0.52           | MWD         | WEATHERFORD    |
| 7/21/2015   | 11,283.00 | 91.19    | 356.81  | 10,371.76 | 1,410.77 | 1,409.74 | -62.81  | 0.68           | MWD         | WEATHERFORD    |

Well Name: GAUCHO UNIT 16H

|                                          |                          |                                   |                                    |                                    |
|------------------------------------------|--------------------------|-----------------------------------|------------------------------------|------------------------------------|
| 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>SEC 19 22S 34E | APRIL 1971<br>3002541853 | Latitude (°)<br>32° 22' 13.249" N | Longitude (°)<br>103° 30' 8.723" W | Orig KB Elevation (ft)<br>3,467.10 |
|                                          |                          |                                   |                                    | Ground Elev MSL (ft)<br>3,442.10   |
|                                          |                          |                                   |                                    | KB - GL (ft)<br>25.00              |

## Survey Data

| Date      | MD (ft)   | Incl (°) | Azm (°) | TVD (ft)  | VS (ft)  | N/S (ft) | E/W (ft) | DLS<br>(°/100ft) | Survey<br>Tool | Survey Company |
|-----------|-----------|----------|---------|-----------|----------|----------|----------|------------------|----------------|----------------|
| 7/21/2015 | 11,378.00 | 92.52    | 357.82  | 10,368.69 | 1,505.70 | 1,504.57 | -67.42   | 1.64             | MWD            | WEATHERFORD    |
| 7/21/2015 | 11,472.00 | 94.06    | 357.09  | 10,363.29 | 1,599.52 | 1,598.31 | -71.75   | 1.73             | MWD            | WEATHERFORD    |
| 7/21/2015 | 11,567.00 | 93.71    | 356.37  | 10,356.86 | 1,694.29 | 1,692.94 | -77.16   | 0.84             | MWD            | WEATHERFORD    |
| 7/21/2015 | 11,661.00 | 92.17    | 356.06  | 10,352.03 | 1,788.17 | 1,786.61 | -83.35   | 1.67             | MWD            | WEATHERFORD    |
| 7/21/2015 | 11,755.00 | 91.89    | 356.63  | 10,348.70 | 1,882.11 | 1,880.36 | -89.34   | 0.68             | MWD            | WEATHERFORD    |
| 7/21/2015 | 11,850.00 | 90.77    | 356.77  | 10,346.50 | 1,977.08 | 1,975.17 | -94.81   | 1.19             | MWD            | WEATHERFORD    |
| 7/21/2015 | 11,944.00 | 88.74    | 356.43  | 10,346.90 | 2,071.07 | 2,069.00 | -100.38  | 2.19             | MWD            | WEATHERFORD    |
| 7/21/2015 | 12,039.00 | 89.30    | 355.23  | 10,348.53 | 2,166.05 | 2,163.73 | -107.29  | 1.39             | MWD            | WEATHERFORD    |
| 7/21/2015 | 12,133.00 | 89.86    | 352.71  | 10,349.22 | 2,259.97 | 2,257.20 | -117.17  | 2.75             | MWD            | WEATHERFORD    |
| 7/21/2015 | 12,228.00 | 88.60    | 353.04  | 10,350.49 | 2,354.81 | 2,351.46 | -128.95  | 1.37             | MWD            | WEATHERFORD    |
| 7/21/2015 | 12,322.00 | 86.78    | 352.86  | 10,354.28 | 2,448.58 | 2,444.67 | -140.47  | 1.95             | MWD            | WEATHERFORD    |
| 7/21/2015 | 12,416.00 | 87.13    | 352.10  | 10,359.27 | 2,542.26 | 2,537.73 | -152.76  | 0.89             | MWD            | WEATHERFORD    |
| 7/21/2015 | 12,511.00 | 87.97    | 352.30  | 10,363.34 | 2,636.94 | 2,631.76 | -165.64  | 0.91             | MWD            | WEATHERFORD    |
| 7/21/2015 | 12,606.00 | 88.74    | 352.14  | 10,366.06 | 2,731.68 | 2,725.85 | -178.49  | 0.83             | MWD            | WEATHERFORD    |
| 7/21/2015 | 12,700.00 | 87.69    | 352.75  | 10,368.99 | 2,825.44 | 2,818.99 | -190.85  | 1.29             | MWD            | WEATHERFORD    |
| 7/21/2015 | 12,794.00 | 87.55    | 352.20  | 10,372.89 | 2,919.17 | 2,912.10 | -203.15  | 0.60             | MWD            | WEATHERFORD    |
| 7/21/2015 | 12,889.00 | 87.62    | 351.95  | 10,376.90 | 3,013.84 | 3,006.10 | -216.23  | 0.27             | MWD            | WEATHERFORD    |
| 7/21/2015 | 12,983.00 | 87.97    | 352.28  | 10,380.51 | 3,107.54 | 3,099.15 | -229.12  | 0.51             | MWD            | WEATHERFORD    |
| 7/21/2015 | 13,078.00 | 89.02    | 355.38  | 10,383.01 | 3,202.42 | 3,193.55 | -239.32  | 3.44             | MWD            | WEATHERFORD    |
| 7/21/2015 | 13,172.00 | 90.98    | 357.48  | 10,383.01 | 3,296.41 | 3,287.36 | -245.18  | 3.06             | MWD            | WEATHERFORD    |
| 7/21/2015 | 13,266.00 | 92.24    | 357.94  | 10,380.37 | 3,390.33 | 3,381.24 | -248.93  | 1.43             | MWD            | WEATHERFORD    |
| 7/21/2015 | 13,361.00 | 92.59    | 357.52  | 10,376.37 | 3,485.21 | 3,476.09 | -252.69  | 0.58             | MWD            | WEATHERFORD    |
| 7/21/2015 | 13,455.00 | 92.59    | 358.03  | 10,372.12 | 3,579.08 | 3,569.92 | -256.34  | 0.54             | MWD            | WEATHERFORD    |
| 7/21/2015 | 13,550.00 | 91.82    | 356.99  | 10,368.46 | 3,673.98 | 3,664.76 | -260.46  | 1.36             | MWD            | WEATHERFORD    |
| 7/21/2015 | 13,644.00 | 90.35    | 355.39  | 10,366.68 | 3,767.95 | 3,758.53 | -266.71  | 2.31             | MWD            | WEATHERFORD    |
| 7/21/2015 | 13,738.00 | 89.86    | 355.41  | 10,366.51 | 3,861.95 | 3,852.22 | -274.24  | 0.52             | MWD            | WEATHERFORD    |
| 7/21/2015 | 13,833.00 | 88.85    | 356.31  | 10,369.24 | 3,956.89 | 3,946.92 | -281.10  | 3.31             | MWD            | WEATHERFORD    |
| 7/21/2015 | 13,927.00 | 86.15    | 357.04  | 10,374.98 | 4,050.71 | 4,040.59 | -286.54  | 1.07             | MWD            | WEATHERFORD    |
| 7/21/2015 | 14,022.00 | 87.27    | 357.60  | 10,380.43 | 4,145.53 | 4,135.33 | -290.98  | 1.32             | MWD            | WEATHERFORD    |
| 7/21/2015 | 14,116.00 | 87.83    | 357.22  | 10,384.45 | 4,239.42 | 4,229.14 | -295.22  | 0.72             | MWD            | WEATHERFORD    |
| 7/21/2015 | 14,211.00 | 87.97    | 357.18  | 10,387.93 | 4,334.34 | 4,323.97 | -299.86  | 0.15             | MWD            | WEATHERFORD    |
| 7/21/2015 | 14,306.00 | 87.97    | 358.09  | 10,391.29 | 4,429.25 | 4,418.83 | -303.78  | 0.96             | MWD            | WEATHERFORD    |
| 7/21/2015 | 14,400.00 | 88.74    | 358.45  | 10,393.99 | 4,523.15 | 4,512.74 | -306.61  | 0.90             | MWD            | WEATHERFORD    |
| 7/21/2015 | 14,495.00 | 90.00    | 359.05  | 10,395.04 | 4,618.04 | 4,607.71 | -308.68  | 1.47             | MWD            | WEATHERFORD    |
| 7/21/2015 | 14,562.00 | 91.12    | 359.14  | 10,394.38 | 4,684.95 | 4,674.70 | -309.74  | 1.68             | MWD            | WEATHERFORD    |
| 7/21/2015 | 14,632.00 | 91.12    | 359.14  | 10,393.01 | 4,754.84 | 4,744.68 | -310.79  | 0.00             | BIT            | WEATHERFORD    |