



**PHOENIX**  
TECHNOLOGY SERVICES

March 12, 2015

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

*SPD 3/24/15*  
Accepted for record  
N.M.O.C.D.

Dear District 2 - Artesia

**NM OIL CONSERVATION**  
ARTESIA DISTRICT

Re: Matador Resources  
Tiger 14-24S-28E-RB #224H WB2  
Eddy County, New Mexico  
API #30-015-42873  
Job No. 1512691

**MAR 19 2015**

**RECEIVED**

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

| Name & Title of Surveyor | Drainhole Number | Surveyed Depths |        | Dates Performed |          | Type of Survey |
|--------------------------|------------------|-----------------|--------|-----------------|----------|----------------|
|                          |                  | From            | To     | Start           | End      |                |
| Shelby Johnson           | 224H             | 11,869          | 15,264 | 02/04/15        | 02/11/15 | MWD            |

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

Best Regards,

*Bobbi Jo Jorgensen*

Bobbi Jo Jorgensen  
Operations Administrator

Certified mail receipt number: 7014 2120 0004 3423 7231

# Phoenix Technology Services SURVEY DATA CERTIFICATION



**PHOENIX**  
TECHNOLOGY SERVICES

PHOENIX JOB NUMBER

1512691

OPERATOR

Matador Resources

WELL NAME

Tiger 14-24S-28E-RB #224H WB2

COUNTY & STATE

Eddy County, NM

API WELL NUMBER

30-015-42873

PROPOSED DIRECTION

269.13

| TIE-IN DATA |              |        |         |            |              |        |
|-------------|--------------|--------|---------|------------|--------------|--------|
| MEASURED    | VERTICAL     |        |         | N-S        | E-W          | DATA   |
| DEPTH       | DEPTH        | INCLIN | AZIMUTH | COORD      | COORD        | SOURCE |
| 11,774. ft  | 10,491.26 ft | 89.50  | 266.10  | -111.85 ft | -1,357.66 ft | Gyro   |

| FIRST    | FIRST        |        |         |
|----------|--------------|--------|---------|
| SURVEY   | SURVEY       |        |         |
| DATE     | DEPTH        | INCLIN | AZIMUTH |
| 4-Feb-15 | 11,869.00 ft | 92.30  | 269.60  |

SURVEY INSTRUMENT

TYPE

Phoenix MWD

| LAST      | LAST         |        |         |
|-----------|--------------|--------|---------|
| SURVEY    | SURVEY       |        |         |
| DATE      | DEPTH        | INCLIN | AZIMUTH |
| 11-Feb-15 | 15,264.00 ft | 95.10  | 269.20  |

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

| PROJECTED | PROJECTED    |        |         |
|-----------|--------------|--------|---------|
| TD SURVEY | TD SURVEY    |        |         |
| DATE      | DEPTH        | INCLIN | AZIMUTH |
| 11-Feb-15 | 15,334.00 ft | 95.10  | 269.20  |

Shelby Johnson

PRINT YOUR NAME ABOVE

Shelby Johnson

SIGN YOUR NAME ABOVE

MAGNETIC DECLINATION OR TOTAL GRID

| TOTAL CORRECTION USED |      |
|-----------------------|------|
|                       | 7.39 |
| DECLINATION OR GRID   | GRID |
|                       |      |

2/11/2015

TODAY'S DATE

MWD SUPERVISOR 1

Shelby Johnson

DIRECTIONAL DRILLER 1

Van Johnson

MWD SUPERVISOR 2

Michael Chrismer

DIRECTIONAL DRILLER 2

Mitch Cooper

12329 Cutten Rd., Houston, Texas 777066

(713)337-0600 (Voice), (713)337-0599 (Fax)



## **Matador Resources**

**Eddy County, New Mexico (NAD27)**

**Tiger 14-24S-28E RB**

**#224H**

**Wellbore #2 Job #1512691**

**Survey: Phoenix MWD Surveys**

## **Standard Survey Report**

**12 March, 2015**

**NM OIL CONSERVATION**  
**ARTESIA DISTRICT**

**MAR 19 2015**

**RECEIVED**





## Survey Report



|           |                                 |                              |                                   |
|-----------|---------------------------------|------------------------------|-----------------------------------|
| Company:  | Matador Resources               | Local Co-ordinate Reference: | Well #224H                        |
| Project:  | Eddy County, New Mexico (NAD27) | TVD Reference:               | RKB @ 3002.00usft (Patterson 203) |
| Site:     | Tiger 14-24S-28E RB             | MD Reference:                | RKB @ 3002.00usft (Patterson 203) |
| Well:     | #224H                           | North Reference:             | Grid                              |
| Wellbore: | Wellbore #2 Job #1512691        | Survey Calculation Method:   | Minimum Curvature                 |
| Design:   | Wellbore #2 Job #1512691        | Database:                    | Compass 5000 GCR                  |

|             |                                      |               |                |
|-------------|--------------------------------------|---------------|----------------|
| Project:    | Eddy County, New Mexico (NAD27)      |               |                |
| Map System: | US State Plane 1927 (Exact solution) | System Datum: | Mean Sea Level |
| Geo Datum:  | NAD 1927 (NADCON CONUS)              |               |                |
| Map Zone:   | New Mexico East 3001                 |               |                |

|                       |  |           |  |              |  |                     |  |                   |  |                    |  |
|-----------------------|--|-----------|--|--------------|--|---------------------|--|-------------------|--|--------------------|--|
| Site                  |  |           |  |              |  | Tiger 14-24S-28E RB |  |                   |  |                    |  |
| Site Position:        |  |           |  | Northing:    |  | 440,880.00 usft     |  | Latitude:         |  | 32° 12' 42.40019 N |  |
| From:                 |  | Map       |  | Easting:     |  | 587,752.00 usft     |  | Longitude:        |  | 104° 2' 58.57422 W |  |
| Position Uncertainty: |  | 0.00 usft |  | Slot Radius: |  | 13-3/16 "           |  | Grid Convergence: |  | 0.15 °             |  |

|                      |       |           |                     |                 |               |                    |
|----------------------|-------|-----------|---------------------|-----------------|---------------|--------------------|
| Well                 | #224H |           |                     |                 |               |                    |
| Well Position        | +N/-S | 0.00 usft | Northing:           | 440,880.00 usft | Latitude:     | 32° 12' 42.40019 N |
|                      | +E/-W | 0.00 usft | Easting:            | 587,752.00 usft | Longitude:    | 104° 2' 58.57422 W |
| Position Uncertainty |       | 0.00 usft | Wellhead Elevation: | 0.00 usft       | Ground Level: | 2,977.00 usft      |

|           |            |                          |                    |                  |                        |
|-----------|------------|--------------------------|--------------------|------------------|------------------------|
| Wellbore  |            | Wellbore #2 Job #1512691 |                    |                  |                        |
| Magnetics | Model Name | Sample Date              | Declination<br>(°) | Dip Angle<br>(°) | Field Strength<br>(nT) |
|           | BGGM2014   | 2/2/2015                 | 7.54               | 59.99            | 48,142                 |

|                   |                            |                          |                 |                  |           |
|-------------------|----------------------------|--------------------------|-----------------|------------------|-----------|
| Design            |                            | Wellbore #2 Job #1512691 |                 |                  |           |
| Audit Notes:      |                            |                          |                 |                  |           |
| Version:          | 1.0                        | Phase:                   | ACTUAL          | Tie On Depth:    | 11,774.00 |
| Vertical Section: | Depth From (TVD)<br>(usft) | +N/-S<br>(usft)          | +E/-W<br>(usft) | Direction<br>(°) |           |
|                   | 0.00                       | 0.00                     | 0.00            | 269.41           |           |

| Survey Program |              | Date                                   | 3/12/2015    |                                      |  |
|----------------|--------------|----------------------------------------|--------------|--------------------------------------|--|
| From<br>(usft) | To<br>(usft) | Survey (Wellbore)                      | Tool Name    | Description                          |  |
| 135.50         | 9,680.00     | VES Gyro Survey (Wellbore #1 Job #1512 | NS-GYRO-MS   | North sensing gyrocompassing m/s     |  |
| 9,814.00       | 11,774.00    | Phoenix MWD Surveys (Wellbore #1 Job # | PHX+MWD+BGGM | PHX+MWD+BGGM v3:standard declination |  |
| 11,869.00      | 15,334.00    | Phoenix MWD Surveys (Wellbore #2 Job # | PHX+MWD+BGGM | PHX+MWD+BGGM v3:standard declination |  |

| Survey                        |                 |             |                       |              |              |                         |                         |                        |                       |
|-------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft)         | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 11,774.00                     | 89.50           | 266.10      | 10,491.26             | -111.85      | -1,357.66    | 1,358.74                | 0.00                    | 0.00                   | 0.00                  |
| Tie-in to WB1                 |                 |             |                       |              |              |                         |                         |                        |                       |
| 11,869.00                     | 92.30           | 269.60      | 10,489.77             | -115.41      | -1,452.55    | 1,453.67                | 4.72                    | 2.95                   | 3.68                  |
| First Phoenix MWD Survey WB#2 |                 |             |                       |              |              |                         |                         |                        |                       |
| 11,963.00                     | 89.70           | 275.60      | 10,488.13             | -111.15      | -1,546.39    | 1,547.46                | 6.96                    | -2.77                  | 6.38                  |
| 12,058.00                     | 91.10           | 276.30      | 10,487.47             | -101.30      | -1,640.87    | 1,641.83                | 1.65                    | 1.47                   | 0.74                  |
| 12,152.00                     | 91.30           | 275.50      | 10,485.50             | -91.64       | -1,734.36    | 1,735.21                | 0.88                    | 0.21                   | -0.85                 |
| 12,244.00                     | 90.70           | 271.80      | 10,483.89             | -85.79       | -1,826.14    | 1,826.93                | 4.07                    | -0.65                  | -4.02                 |



## Survey Report



|                  |                                 |                                     |                                   |
|------------------|---------------------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>  | Matador Resources               | <b>Local Co-ordinate Reference:</b> | Well #224H                        |
| <b>Project:</b>  | Eddy County, New Mexico (NAD27) | <b>TVD Reference:</b>               | RKB @ 3002.00usft (Patterson 203) |
| <b>Site:</b>     | Tiger 14-24S-28E RB             | <b>MD Reference:</b>                | RKB @ 3002.00usft (Patterson 203) |
| <b>Well:</b>     | #224H                           | <b>North Reference:</b>             | Grid                              |
| <b>Wellbore:</b> | Wellbore #2 Job #1512691        | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Design:</b>   | Wellbore #2 Job #1512691        | <b>Database:</b>                    | Compass 5000 GCR                  |

| Survey                        |                 |             |                       |              |              |                         |                         |                        |                       |
|-------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft)         | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 12,338.00                     | 87.70           | 271.20      | 10,485.20             | -83.33       | -1,920.09    | 1,920.84                | 3.25                    | -3.19                  | -0.64                 |
| 12,432.00                     | 89.10           | 271.80      | 10,487.83             | -80.87       | -2,014.01    | 2,014.74                | 1.62                    | 1.49                   | 0.64                  |
| 12,527.00                     | 88.50           | 270.30      | 10,489.82             | -79.13       | -2,108.97    | 2,109.68                | 1.70                    | -0.63                  | -1.58                 |
| 12,621.00                     | 93.90           | 271.50      | 10,487.85             | -77.65       | -2,202.91    | 2,203.59                | 5.88                    | 5.74                   | 1.28                  |
| 12,715.00                     | 94.10           | 271.30      | 10,481.29             | -75.36       | -2,296.65    | 2,297.30                | 0.30                    | 0.21                   | -0.21                 |
| 12,810.00                     | 92.40           | 269.10      | 10,475.91             | -75.03       | -2,391.49    | 2,392.13                | 2.92                    | -1.79                  | -2.32                 |
| 12,904.00                     | 90.00           | 267.40      | 10,473.94             | -77.90       | -2,485.41    | 2,486.08                | 3.13                    | -2.55                  | -1.81                 |
| 12,998.00                     | 89.20           | 266.00      | 10,474.59             | -83.31       | -2,579.25    | 2,579.97                | 1.72                    | -0.85                  | -1.49                 |
| 13,093.00                     | 90.90           | 266.50      | 10,474.51             | -89.53       | -2,674.04    | 2,674.82                | 1.87                    | 1.79                   | 0.53                  |
| 13,187.00                     | 92.00           | 266.80      | 10,472.13             | -95.02       | -2,767.85    | 2,768.68                | 1.21                    | 1.17                   | 0.32                  |
| 13,282.00                     | 93.10           | 268.30      | 10,467.91             | -99.08       | -2,862.67    | 2,863.54                | 1.96                    | 1.16                   | 1.58                  |
| 13,376.00                     | 94.00           | 269.10      | 10,462.09             | -101.20      | -2,956.46    | 2,957.35                | 1.28                    | 0.96                   | 0.85                  |
| 13,471.00                     | 89.90           | 268.70      | 10,458.85             | -103.03      | -3,051.37    | 3,052.27                | 4.34                    | -4.32                  | -0.42                 |
| 13,565.00                     | 91.50           | 271.10      | 10,457.71             | -103.19      | -3,145.35    | 3,146.25                | 3.07                    | 1.70                   | 2.55                  |
| 13,660.00                     | 90.70           | 270.00      | 10,455.88             | -102.28      | -3,240.32    | 3,241.21                | 1.43                    | -0.84                  | -1.16                 |
| 13,754.00                     | 92.40           | 273.90      | 10,453.34             | -99.08       | -3,334.21    | 3,335.06                | 4.52                    | 1.81                   | 4.15                  |
| 13,849.00                     | 93.00           | 274.50      | 10,448.86             | -92.13       | -3,428.85    | 3,429.62                | 0.89                    | 0.63                   | 0.63                  |
| 13,943.00                     | 93.90           | 274.80      | 10,443.21             | -84.53       | -3,522.37    | 3,523.06                | 1.01                    | 0.96                   | 0.32                  |
| 14,038.00                     | 94.60           | 275.40      | 10,436.17             | -76.11       | -3,616.74    | 3,617.33                | 0.97                    | 0.74                   | 0.63                  |
| 14,132.00                     | 92.40           | 274.10      | 10,430.43             | -68.34       | -3,710.23    | 3,710.74                | 2.72                    | -2.34                  | -1.38                 |
| 14,227.00                     | 89.70           | 272.30      | 10,428.69             | -63.04       | -3,805.05    | 3,805.50                | 3.42                    | -2.84                  | -1.89                 |
| 14,321.00                     | 89.10           | 272.00      | 10,429.67             | -59.51       | -3,898.98    | 3,899.39                | 0.71                    | -0.64                  | -0.32                 |
| 14,415.00                     | 89.80           | 272.90      | 10,430.57             | -55.49       | -3,992.89    | 3,993.25                | 1.21                    | 0.74                   | 0.96                  |
| 14,509.00                     | 88.40           | 272.60      | 10,432.05             | -50.98       | -4,086.77    | 4,087.08                | 1.52                    | -1.49                  | -0.32                 |
| 14,604.00                     | 89.60           | 273.30      | 10,433.71             | -46.10       | -4,181.63    | 4,181.88                | 1.46                    | 1.26                   | 0.74                  |
| 14,698.00                     | 89.80           | 273.40      | 10,434.20             | -40.60       | -4,275.46    | 4,275.65                | 0.24                    | 0.21                   | 0.11                  |
| 14,793.00                     | 89.60           | 271.50      | 10,434.70             | -36.54       | -4,370.37    | 4,370.52                | 2.01                    | -0.21                  | -2.00                 |
| 14,887.00                     | 87.00           | 268.40      | 10,437.49             | -36.62       | -4,464.31    | 4,464.45                | 4.30                    | -2.77                  | -3.30                 |
| 14,981.00                     | 93.00           | 267.70      | 10,437.49             | -39.82       | -4,558.21    | 4,558.38                | 6.43                    | 6.38                   | -0.74                 |
| 15,075.00                     | 93.60           | 267.60      | 10,432.08             | -43.67       | -4,651.98    | 4,652.18                | 0.65                    | 0.64                   | -0.11                 |
| 15,170.00                     | 94.50           | 267.90      | 10,425.37             | -47.39       | -4,746.67    | 4,746.90                | 1.00                    | 0.95                   | 0.32                  |
| 15,264.00                     | 95.10           | 269.20      | 10,417.50             | -49.76       | -4,840.30    | 4,840.56                | 1.52                    | 0.64                   | 1.38                  |
| Final Phoenix MWD Survey WB#2 |                 |             |                       |              |              |                         |                         |                        |                       |
| 15,334.00                     | 95.10           | 269.20      | 10,411.28             | -50.73       | -4,910.02    | 4,910.28                | 0.00                    | 0.00                   | 0.00                  |
| Projection to TD WB#2         |                 |             |                       |              |              |                         |                         |                        |                       |

## Survey Annotations

| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates |              | Comment                       |
|-----------------------|-----------------------|-------------------|--------------|-------------------------------|
|                       |                       | +N/-S (usft)      | +E/-W (usft) |                               |
| 11,774.00             | 10,491.26             | -111.85           | -1,357.66    | Tie-in to WB1                 |
| 11,869.00             | 10,489.77             | -115.41           | -1,452.55    | First Phoenix MWD Survey WB#2 |
| 15,264.00             | 10,417.50             | -49.76            | -4,840.30    | Final Phoenix MWD Survey WB#2 |
| 15,334.00             | 10,411.28             | -50.73            | -4,910.02    | Projection to TD WB#2         |



# Survey Report



|                  |                                 |                                     |                                   |
|------------------|---------------------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>  | Matador Resources               | <b>Local Co-ordinate Reference:</b> | Well #224H                        |
| <b>Project:</b>  | Eddy County, New Mexico (NAD27) | <b>TVD Reference:</b>               | RKB @ 3002.00usft (Patterson 203) |
| <b>Site:</b>     | Tiger 14-24S-28E RB             | <b>MD Reference:</b>                | RKB @ 3002.00usft (Patterson 203) |
| <b>Well:</b>     | #224H                           | <b>North Reference:</b>             | Grid                              |
| <b>Wellbore:</b> | Wellbore #2 Job #1512691        | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Design:</b>   | Wellbore #2 Job #1512691        | <b>Database:</b>                    | Compass 5000 GCR                  |

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

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                 |               | <sup>2</sup> Pool Code                                   |               | <sup>3</sup> Pool Name           |                       |                           |                       |                                   |                |
| <sup>4</sup> Property Code              |               | <sup>5</sup> Property Name<br>TIGER 14-24S-28E RB        |               |                                  |                       |                           |                       | <sup>6</sup> Well Number<br>#224H |                |
| <sup>7</sup> GRID No.                   |               | <sup>8</sup> Operator Name<br>MATADOR PRODUCTION COMPANY |               |                                  |                       |                           |                       | <sup>9</sup> Elevation<br>2977'   |                |
| <sup>10</sup> Surface Location          |               |                                                          |               |                                  |                       |                           |                       |                                   |                |
| UL or lot no.<br>P                      | Section<br>14 | Township<br>24-S                                         | Range<br>28-E | Lot Idn<br>-                     | Feet from the<br>505' | North/South line<br>SOUTH | Feet from the<br>254' | East/West line<br>EAST            | County<br>EDDY |
| UL or lot no.<br>M                      | Section<br>14 | Township<br>24-S                                         | Range<br>28-E | Lot Idn<br>-                     | Feet from the<br>330' | North/South line<br>SOUTH | Feet from the<br>260' | East/West line<br>WEST            | County<br>EDDY |
| <sup>12</sup> Dedicated Acres<br>320.00 |               | <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><sup>16</sup></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 unless 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>Signature: <i>[Signature]</i> Date: 12/17/14</p> <p>Printed Name: LARRY K. CUSHOW</p> <p>E-mail Address: lccushow@matadorresources.com</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 to the best of my belief.</p> <p>08/27/2014</p> <p>Date of Survey</p> <p>Signature and Seal of Professional Surveyor</p> <p><i>[Signature]</i></p> <p>Certificate Number</p> |  |  |  | <p>18329</p> <p>PROFESSIONAL SURVEYOR</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |