

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

|                                                                                                                              |                                                         |                                                           |                                  |
|------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------|----------------------------------|
| <sup>1</sup> Operator name and Address<br>Colgate Operating, LLC<br>300 N Marienfeld Street, Suite 1000<br>Midland, Tx 79701 |                                                         | <sup>2</sup> OGRID Number<br>371449                       |                                  |
|                                                                                                                              |                                                         | <sup>3</sup> Reason for Filing Code/ Effective Date<br>RT |                                  |
| <sup>4</sup> API Number<br>30 – 015 – 48113                                                                                  | <sup>5</sup> Pool Name<br>WINCHESTER; BONE SPRING, WEST |                                                           | <sup>6</sup> Pool Code<br>97569  |
| <sup>7</sup> Property Code<br>329347                                                                                         | <sup>8</sup> Property Name<br>TORO 22 FED STATE COM     |                                                           | <sup>9</sup> Well Number<br>122H |

II. <sup>10</sup> Surface Location

|                    |               |                 |              |         |                       |                           |                      |                        |                |
|--------------------|---------------|-----------------|--------------|---------|-----------------------|---------------------------|----------------------|------------------------|----------------|
| UL or lot no.<br>E | Section<br>22 | Township<br>19S | Range<br>28E | Lot Idn | Feet from the<br>1434 | North/South Line<br>North | Feet from the<br>405 | East/West line<br>West | County<br>Eddy |
|--------------------|---------------|-----------------|--------------|---------|-----------------------|---------------------------|----------------------|------------------------|----------------|

<sup>11</sup> Bottom Hole Location

|                             |                                             |                 |                                                    |         |                                   |                                    |                     |                                     |                |
|-----------------------------|---------------------------------------------|-----------------|----------------------------------------------------|---------|-----------------------------------|------------------------------------|---------------------|-------------------------------------|----------------|
| UL or lot no.<br>H          | Section<br>22                               | Township<br>19S | Range<br>28E                                       | Lot Idn | Feet from the<br>2294             | North/South line<br>North          | Feet from the<br>11 | East/West line<br>East              | County<br>Eddy |
| <sup>12</sup> Lse Code<br>F | <sup>13</sup> Producing Method<br>Code<br>P |                 | <sup>14</sup> Gas Connection<br>Date<br>03/01/2021 |         | <sup>15</sup> C-129 Permit Number | <sup>16</sup> C-129 Effective Date |                     | <sup>17</sup> C-129 Expiration Date |                |

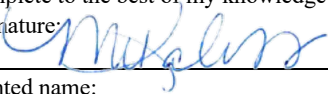
III. Oil and Gas Transporters

|                                    |                                               |                     |
|------------------------------------|-----------------------------------------------|---------------------|
| <sup>18</sup> Transporter<br>OGRID | <sup>19</sup> Transporter Name<br>and Address | <sup>20</sup> O/G/W |
| 329097                             | LM TOUCHDOWN, LLC                             | O                   |
|                                    |                                               |                     |
| 329097                             | LM TOUCHDOWN, LLC                             | G                   |
|                                    |                                               |                     |
|                                    |                                               |                     |
|                                    |                                               |                     |
|                                    |                                               |                     |
|                                    |                                               |                     |

IV. Well Completion Data

|                                       |                                        |                                            |                                              |                                              |                            |
|---------------------------------------|----------------------------------------|--------------------------------------------|----------------------------------------------|----------------------------------------------|----------------------------|
| <sup>21</sup> Spud Date<br>03/15/2022 | <sup>22</sup> Ready Date<br>07/01/2022 | <sup>23</sup> TD<br>12,257 MD<br>7,348 TVD | <sup>24</sup> PBDT<br>12,140 MD<br>7,396 TVD | <sup>25</sup> Perforations<br>7,682 – 12,017 | <sup>26</sup> DHC, MC      |
| <sup>27</sup> Hole Size               |                                        | <sup>28</sup> Casing & Tubing Size         |                                              | <sup>29</sup> Depth Set                      | <sup>30</sup> Sacks Cement |
| 17.5                                  |                                        | 13.375                                     |                                              | 254                                          | 305                        |
| 12.25                                 |                                        | 9.625                                      |                                              | 2,857                                        | Lead 460<br>Tail 205       |
| 7.875                                 |                                        | 5.5                                        |                                              | 12,257                                       | Lead 760<br>Tail 670       |
|                                       |                                        |                                            |                                              |                                              |                            |

V. Well Test Data

|                                                                                                                                                                                                                                                                                                            |                                 |                         |                           |                             |                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-------------------------|---------------------------|-----------------------------|-----------------------------|
| <sup>31</sup> Date New Oil                                                                                                                                                                                                                                                                                 | <sup>32</sup> Gas Delivery Date | <sup>33</sup> Test Date | <sup>34</sup> Test Length | <sup>35</sup> Tbg. Pressure | <sup>36</sup> Csg. Pressure |
| <sup>37</sup> Choke Size                                                                                                                                                                                                                                                                                   | <sup>38</sup> Oil               | <sup>39</sup> Water     | <sup>40</sup> Gas         |                             | <sup>41</sup> Test Method   |
| <sup>42</sup> I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.<br>Signature:  |                                 |                         | OIL CONSERVATION DIVISION |                             |                             |
| Printed name:<br>Mikah Thomas                                                                                                                                                                                                                                                                              |                                 |                         | Approved by:              |                             |                             |
| Title:<br>Sr. Regulatory Analyst                                                                                                                                                                                                                                                                           |                                 |                         | Title:                    |                             |                             |
| E-mail Address:<br><a href="mailto:mthomas@colgateenergy.com">mthomas@colgateenergy.com</a>                                                                                                                                                                                                                |                                 |                         | Approval Date:            |                             |                             |
| Date:<br>06/15/2022                                                                                                                                                                                                                                                                                        |                                 | Phone:<br>432-695-4272  |                           |                             |                             |

District I  
1625 N. French Dr., Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720

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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**

|                                     |                                                 |                                                     |
|-------------------------------------|-------------------------------------------------|-----------------------------------------------------|
| <b>1 API Number</b><br>30-015-48113 | <b>2 Pool Code</b><br>97569                     | <b>3 Pool Name</b><br>WINCHESTER; BONE SPRING, WEST |
| <b>4 Property Code</b><br>330326    | <b>5 Property Name</b><br>TORO 22 FED STATE COM | <b>6 Well Number</b><br>122H                        |
| <b>7 OGRID No.</b><br>371449        | <b>8 Operator Name</b><br>COLGATE ENERGY LLC    | <b>9 Elevation</b><br>3422.04'                      |

**<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 |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| E             | 22      | 19-S     | 28-E  |         | 1434'         | NORTH            | 405'          | WEST           | EDDY   |

**<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 |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| H             | 22      | 19-S     | 28-E  |         | 2294'         | NORTH            | 11'           | EAST           | EDDY   |

|                                  |                           |                              |                     |
|----------------------------------|---------------------------|------------------------------|---------------------|
| <b>12 Dedicated Acres</b><br>160 | <b>13 Joint or Infill</b> | <b>14 Consolidation Code</b> | <b>15 Order No.</b> |
|----------------------------------|---------------------------|------------------------------|---------------------|

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.

**CORNER DATA**  
NEW MEXICO EAST - NAD 83

A - FOUND MONUMENT  
N:601487.49' E:590787.58'

B - FOUND IRON PIPE W/ BRASS CAP  
N:601512.46' E:593384.47'

C - CALCULATED CORNER  
N:601537.44' E:595981.36'

D - FOUND IRON PIPE W/ BRASS CAP  
N:598897.79' E:595983.55'

E - FOUND IRON PIPE W/ BRASS CAP  
N:596258.72' E:595984.31'

F - FOUND IRON PIPE W/ BRASS CAP  
N:596236.89' E:593385.18'

G - FOUND IRON PIPE W/ BRASS CAP  
N:596216.35' E:590789.98'

H - FOUND MONUMENT  
N:598852.66' E:590787.16'

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

*Mikah Thomas* 06.16.2022  
Signature Date

Mikah Thomas  
Printed Name

mthomas@colgateenergy.com  
E-mail Address

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

\_\_\_\_\_  
Date of Survey

*Mark J. Murray*  
Signature and Seal of Professional Surveyor

12177  
REGISTERED PROFESSIONAL SURVEYOR

4/27/2022  
Certificate Number



## **Colgate Energy**

**Eddy County, NM (N83-NME)**

**Toro 22 Fed State Com**

**(A04) Toro 22 Fed State Com 122H**

**30-015-48113**

**122H**

**Design: 122H**

## **Standard Survey Report**

**18 April, 2022**



## Survey Report

|                  |                                  |                                     |                                       |
|------------------|----------------------------------|-------------------------------------|---------------------------------------|
| <b>Company:</b>  | Colgate Energy                   | <b>Local Co-ordinate Reference:</b> | Well (A04) Toro 22 Fed State Com 122H |
| <b>Project:</b>  | Eddy County, NM (N83-NME)        | <b>TVD Reference:</b>               | 3422+30 @ 3452.00usft                 |
| <b>Site:</b>     | Toro 22 Fed State Com            | <b>MD Reference:</b>                | 3422+30 @ 3452.00usft                 |
| <b>Well:</b>     | (A04) Toro 22 Fed State Com 122H | <b>North Reference:</b>             | Grid                                  |
| <b>Wellbore:</b> | 122H                             | <b>Survey Calculation Method:</b>   | Minimum Curvature                     |
| <b>Design:</b>   | 122H                             | <b>Database:</b>                    | EDM 5000.14 Single User Db            |

|                    |                           |                      |                |
|--------------------|---------------------------|----------------------|----------------|
| <b>Project</b>     | Eddy County, NM (N83-NME) |                      |                |
| <b>Map System:</b> | US State Plane 1983       | <b>System Datum:</b> | Mean Sea Level |
| <b>Geo Datum:</b>  | North American Datum 1983 |                      |                |
| <b>Map Zone:</b>   | New Mexico Eastern Zone   |                      |                |

|                              |                       |                     |                 |
|------------------------------|-----------------------|---------------------|-----------------|
| <b>Site</b>                  | Toro 22 Fed State Com |                     |                 |
| <b>Site Position:</b>        |                       | <b>Northing:</b>    | 600,057.66 usft |
| <b>From:</b>                 | Map                   | <b>Easting:</b>     | 591,132.01 usft |
| <b>Position Uncertainty:</b> | 0.00 usft             | <b>Slot Radius:</b> | 13-3/16 "       |
|                              |                       | <b>Latitude:</b>    | 32.64950189     |
|                              |                       | <b>Longitude:</b>   | -104.17154894   |

|                             |                                  |                            |                                  |
|-----------------------------|----------------------------------|----------------------------|----------------------------------|
| <b>Well</b>                 | (A04) Toro 22 Fed State Com 122H |                            |                                  |
| <b>Well Position</b>        | <b>+N/-S</b>                     | 0.00 usft                  | <b>Northing:</b> 600,057.69 usft |
|                             | <b>+E/-W</b>                     | 0.00 usft                  | <b>Easting:</b> 591,191.99 usft  |
| <b>Position Uncertainty</b> | 0.00 usft                        | <b>Wellhead Elevation:</b> | usft                             |
| <b>Grid Convergence:</b>    | 0.09 °                           | <b>Ground Level:</b>       | 3,422.00 usft                    |

|                  |                   |                    |                            |
|------------------|-------------------|--------------------|----------------------------|
| <b>Wellbore</b>  | 122H              |                    |                            |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination (°)</b>     |
|                  | IFR               | 3/12/2022          | 7.11                       |
|                  |                   |                    | <b>Dip Angle (°)</b>       |
|                  |                   |                    | 60.37                      |
|                  |                   |                    | <b>Field Strength (nT)</b> |
|                  |                   |                    | 47,653.80000000            |

|                          |                                |                      |                      |
|--------------------------|--------------------------------|----------------------|----------------------|
| <b>Design</b>            | 122H                           |                      |                      |
| <b>Audit Notes:</b>      |                                |                      |                      |
| <b>Version:</b>          | 1.0                            | <b>Phase:</b>        | ACTUAL               |
|                          |                                | <b>Tie On Depth:</b> | 0.00                 |
| <b>Vertical Section:</b> | <b>Depth From (TVD) (usft)</b> | <b>+N/-S (usft)</b>  | <b>+E/-W (usft)</b>  |
|                          | 0.00                           | 0.00                 | 0.00                 |
|                          |                                |                      | <b>Direction (°)</b> |
|                          |                                |                      | 89.45                |

|                       |                  |                          |                                                               |                    |
|-----------------------|------------------|--------------------------|---------------------------------------------------------------|--------------------|
| <b>Survey Program</b> | <b>Date</b>      | 4/18/2022                |                                                               |                    |
| <b>From (usft)</b>    | <b>To (usft)</b> | <b>Survey (Wellbore)</b> | <b>Tool Name</b>                                              | <b>Description</b> |
| 15.00                 | 12,199.00        | Survey #1_Gordon (122H)  | MWD+IFR1+SAG+FDIR (SQ OWSG MWD + IFR1 + Sag + FDIR Correction |                    |
| 12,257.00             | 12,257.00        | Survey #2_PTB (122H)     | BLIND                                                         | BLIND              |

|                              |                        |                    |                              |                     |                     |                                |                                |                               |                              |  |
|------------------------------|------------------------|--------------------|------------------------------|---------------------|---------------------|--------------------------------|--------------------------------|-------------------------------|------------------------------|--|
| <b>Survey</b>                |                        |                    |                              |                     |                     |                                |                                |                               |                              |  |
| <b>Measured Depth (usft)</b> | <b>Inclination (°)</b> | <b>Azimuth (°)</b> | <b>Vertical Depth (usft)</b> | <b>+N/-S (usft)</b> | <b>+E/-W (usft)</b> | <b>Vertical Section (usft)</b> | <b>Dogleg Rate (°/100usft)</b> | <b>Build Rate (°/100usft)</b> | <b>Turn Rate (°/100usft)</b> |  |
| 0.00                         | 0.00                   | 0.00               | 0.00                         | 0.00                | 0.00                | 0.00                           | 0.00                           | 0.00                          | 0.00                         |  |
| 15.00                        | 0.15                   | 45.11              | 15.00                        | 0.01                | 0.01                | 0.01                           | 1.00                           | 1.00                          | 0.00                         |  |
| 30.00                        | 0.30                   | 45.07              | 30.00                        | 0.06                | 0.06                | 0.06                           | 1.00                           | 1.00                          | -0.27                        |  |
| 45.00                        | 0.45                   | 45.02              | 45.00                        | 0.12                | 0.13                | 0.13                           | 1.00                           | 1.00                          | -0.33                        |  |
| 60.00                        | 0.60                   | 44.98              | 60.00                        | 0.22                | 0.22                | 0.22                           | 1.00                           | 1.00                          | -0.27                        |  |
| 75.00                        | 0.75                   | 44.94              | 75.00                        | 0.35                | 0.35                | 0.35                           | 1.00                           | 1.00                          | -0.27                        |  |
| 90.00                        | 0.90                   | 44.89              | 90.00                        | 0.50                | 0.50                | 0.50                           | 1.00                           | 1.00                          | -0.33                        |  |
| 105.00                       | 0.86                   | 74.85              | 104.99                       | 0.61                | 0.69                | 0.70                           | 3.04                           | -0.27                         | 199.73                       |  |
| 120.00                       | 0.65                   | 118.33             | 119.99                       | 0.60                | 0.87                | 0.88                           | 3.95                           | -1.40                         | 289.87                       |  |



## Survey Report

|                  |                                  |                                     |                                       |
|------------------|----------------------------------|-------------------------------------|---------------------------------------|
| <b>Company:</b>  | Colgate Energy                   | <b>Local Co-ordinate Reference:</b> | Well (A04) Toro 22 Fed State Com 122H |
| <b>Project:</b>  | Eddy County, NM (N83-NME)        | <b>TVD Reference:</b>               | 3422+30 @ 3452.00usft                 |
| <b>Site:</b>     | Toro 22 Fed State Com            | <b>MD Reference:</b>                | 3422+30 @ 3452.00usft                 |
| <b>Well:</b>     | (A04) Toro 22 Fed State Com 122H | <b>North Reference:</b>             | Grid                                  |
| <b>Wellbore:</b> | 122H                             | <b>Survey Calculation Method:</b>   | Minimum Curvature                     |
| <b>Design:</b>   | 122H                             | <b>Database:</b>                    | EDM 5000.14 Single User Db            |

| 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) |
| 135.00                | 0.45            | 189.25      | 134.99                | 0.50         | 0.94         | 0.95                    | 4.39                    | -1.33                  | 472.80                |
| 150.00                | 0.37            | 185.19      | 149.99                | 0.40         | 0.93         | 0.93                    | 0.57                    | -0.53                  | -27.07                |
| 165.00                | 0.28            | 178.08      | 164.99                | 0.31         | 0.92         | 0.93                    | 0.66                    | -0.60                  | -47.40                |
| 180.00                | 0.20            | 165.16      | 179.99                | 0.25         | 0.93         | 0.93                    | 0.64                    | -0.53                  | -86.13                |
| 195.00                | 0.15            | 142.98      | 194.99                | 0.21         | 0.95         | 0.95                    | 0.56                    | -0.33                  | -147.87               |
| 209.44                | 0.13            | 152.20      | 209.43                | 0.18         | 0.97         | 0.97                    | 0.21                    | -0.14                  | 63.85                 |
| 223.89                | 0.11            | 165.06      | 223.88                | 0.15         | 0.98         | 0.98                    | 0.23                    | -0.14                  | 89.00                 |
| 229.01                | 0.11            | 170.66      | 229.00                | 0.14         | 0.98         | 0.98                    | 0.22                    | -0.09                  | 109.34                |
| <b>Rustler</b>        |                 |             |                       |              |              |                         |                         |                        |                       |
| 238.33                | 0.10            | 182.00      | 238.32                | 0.13         | 0.98         | 0.98                    | 0.23                    | -0.06                  | 121.69                |
| 252.78                | 0.10            | 201.21      | 252.77                | 0.10         | 0.98         | 0.98                    | 0.23                    | 0.00                   | 132.94                |
| 267.22                | 0.11            | 218.91      | 267.21                | 0.08         | 0.96         | 0.97                    | 0.23                    | 0.07                   | 122.58                |
| 281.67                | 0.13            | 232.69      | 281.66                | 0.06         | 0.94         | 0.94                    | 0.24                    | 0.14                   | 95.36                 |
| 285.01                | 0.13            | 235.40      | 285.00                | 0.05         | 0.94         | 0.94                    | 0.23                    | 0.14                   | 81.21                 |
| <b>Top of Salt</b>    |                 |             |                       |              |              |                         |                         |                        |                       |
| 296.11                | 0.15            | 242.63      | 296.10                | 0.04         | 0.91         | 0.91                    | 0.21                    | 0.14                   | 65.11                 |
| 310.56                | 0.18            | 249.74      | 310.55                | 0.02         | 0.88         | 0.88                    | 0.25                    | 0.21                   | 49.20                 |
| 325.00                | 0.21            | 254.93      | 324.99                | 0.01         | 0.83         | 0.83                    | 0.24                    | 0.21                   | 35.94                 |
| 338.14                | 0.18            | 262.19      | 338.13                | 0.00         | 0.78         | 0.78                    | 0.30                    | -0.23                  | 55.25                 |
| 351.29                | 0.16            | 271.68      | 351.28                | 0.00         | 0.75         | 0.75                    | 0.26                    | -0.15                  | 72.17                 |
| 364.43                | 0.14            | 283.73      | 364.42                | 0.00         | 0.71         | 0.71                    | 0.28                    | -0.15                  | 91.70                 |
| 377.57                | 0.14            | 297.99      | 377.56                | 0.01         | 0.68         | 0.68                    | 0.26                    | 0.00                   | 108.52                |
| 390.71                | 0.14            | 312.97      | 390.70                | 0.03         | 0.66         | 0.66                    | 0.28                    | 0.00                   | 114.00                |
| 403.86                | 0.15            | 326.72      | 403.85                | 0.06         | 0.64         | 0.64                    | 0.27                    | 0.08                   | 104.56                |
| 417.00                | 0.16            | 338.06      | 416.99                | 0.09         | 0.62         | 0.62                    | 0.25                    | 0.08                   | 86.30                 |
| 430.14                | 0.10            | 317.71      | 430.13                | 0.11         | 0.60         | 0.61                    | 0.57                    | -0.46                  | -154.87               |
| 443.29                | 0.08            | 271.02      | 443.28                | 0.12         | 0.59         | 0.59                    | 0.56                    | -0.15                  | -355.06               |
| 456.43                | 0.12            | 229.84      | 456.42                | 0.11         | 0.57         | 0.57                    | 0.61                    | 0.30                   | -313.39               |
| 469.57                | 0.18            | 213.00      | 469.56                | 0.09         | 0.55         | 0.55                    | 0.56                    | 0.46                   | -128.16               |
| 482.71                | 0.25            | 205.36      | 482.70                | 0.04         | 0.52         | 0.52                    | 0.57                    | 0.53                   | -58.14                |
| 495.86                | 0.32            | 201.19      | 495.85                | -0.02        | 0.50         | 0.50                    | 0.55                    | 0.53                   | -31.71                |
| 509.00                | 0.40            | 198.61      | 508.99                | -0.09        | 0.47         | 0.47                    | 0.62                    | 0.61                   | -19.63                |
| 522.14                | 0.45            | 193.38      | 522.13                | -0.19        | 0.44         | 0.44                    | 0.48                    | 0.38                   | -39.80                |
| 535.29                | 0.51            | 189.36      | 535.28                | -0.30        | 0.42         | 0.42                    | 0.52                    | 0.46                   | -30.57                |
| 548.43                | 0.57            | 186.21      | 548.42                | -0.42        | 0.40         | 0.40                    | 0.51                    | 0.46                   | -23.97                |
| 561.57                | 0.64            | 183.69      | 561.56                | -0.56        | 0.39         | 0.39                    | 0.57                    | 0.53                   | -19.18                |
| 570.01                | 0.68            | 182.34      | 570.00                | -0.65        | 0.39         | 0.38                    | 0.49                    | 0.46                   | -16.01                |
| <b>Base of Salt</b>   |                 |             |                       |              |              |                         |                         |                        |                       |
| 574.71                | 0.70            | 181.65      | 574.70                | -0.71        | 0.39         | 0.38                    | 0.49                    | 0.46                   | -14.65                |
| 587.86                | 0.76            | 179.97      | 587.85                | -0.88        | 0.38         | 0.37                    | 0.48                    | 0.46                   | -12.78                |
| 601.00                | 0.83            | 178.57      | 600.99                | -1.06        | 0.39         | 0.38                    | 0.55                    | 0.53                   | -10.65                |
| 614.00                | 0.86            | 177.43      | 613.98                | -1.25        | 0.39         | 0.38                    | 0.26                    | 0.23                   | -8.77                 |
| 627.00                | 0.89            | 176.38      | 626.98                | -1.45        | 0.40         | 0.39                    | 0.26                    | 0.23                   | -8.08                 |
| 640.00                | 0.92            | 175.41      | 639.98                | -1.65        | 0.42         | 0.40                    | 0.26                    | 0.23                   | -7.46                 |



## Survey Report

|                  |                                  |                                     |                                       |
|------------------|----------------------------------|-------------------------------------|---------------------------------------|
| <b>Company:</b>  | Colgate Energy                   | <b>Local Co-ordinate Reference:</b> | Well (A04) Toro 22 Fed State Com 122H |
| <b>Project:</b>  | Eddy County, NM (N83-NME)        | <b>TVD Reference:</b>               | 3422+30 @ 3452.00usft                 |
| <b>Site:</b>     | Toro 22 Fed State Com            | <b>MD Reference:</b>                | 3422+30 @ 3452.00usft                 |
| <b>Well:</b>     | (A04) Toro 22 Fed State Com 122H | <b>North Reference:</b>             | Grid                                  |
| <b>Wellbore:</b> | 122H                             | <b>Survey Calculation Method:</b>   | Minimum Curvature                     |
| <b>Design:</b>   | 122H                             | <b>Database:</b>                    | EDM 5000.14 Single User Db            |

| 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) |
| 653.00                | 0.95            | 174.52      | 652.98                | -1.87        | 0.44         | 0.42                    | 0.26                    | 0.23                   | -6.85                 |
| 666.00                | 0.98            | 173.70      | 665.98                | -2.08        | 0.46         | 0.44                    | 0.25                    | 0.23                   | -6.31                 |
| 679.00                | 1.01            | 172.95      | 678.98                | -2.31        | 0.49         | 0.46                    | 0.25                    | 0.23                   | -5.77                 |
| 692.00                | 1.04            | 172.24      | 691.97                | -2.54        | 0.52         | 0.49                    | 0.25                    | 0.23                   | -5.46                 |
| 705.14                | 1.02            | 171.36      | 705.11                | -2.77        | 0.55         | 0.52                    | 0.19                    | -0.15                  | -6.70                 |
| 718.29                | 1.01            | 170.39      | 718.26                | -3.00        | 0.59         | 0.56                    | 0.15                    | -0.08                  | -7.38                 |
| 731.43                | 0.99            | 169.33      | 731.40                | -3.23        | 0.63         | 0.60                    | 0.21                    | -0.15                  | -8.07                 |
| 744.57                | 0.97            | 168.21      | 744.54                | -3.45        | 0.67         | 0.64                    | 0.21                    | -0.15                  | -8.52                 |
| 757.71                | 0.96            | 167.04      | 757.67                | -3.66        | 0.72         | 0.68                    | 0.17                    | -0.08                  | -8.90                 |
| 770.86                | 0.94            | 165.84      | 770.82                | -3.88        | 0.77         | 0.73                    | 0.21                    | -0.15                  | -9.13                 |
| 781.04                | 0.93            | 164.91      | 781.00                | -4.04        | 0.81         | 0.77                    | 0.17                    | -0.08                  | -9.13                 |
| Yates                 |                 |             |                       |              |              |                         |                         |                        |                       |
| 784.00                | 0.93            | 164.64      | 783.96                | -4.08        | 0.82         | 0.78                    | 0.17                    | -0.07                  | -9.15                 |
| 797.14                | 0.95            | 162.28      | 797.10                | -4.29        | 0.88         | 0.84                    | 0.33                    | 0.15                   | -17.96                |
| 810.29                | 0.97            | 160.02      | 810.25                | -4.50        | 0.96         | 0.91                    | 0.33                    | 0.15                   | -17.19                |
| 823.43                | 0.99            | 157.87      | 823.38                | -4.71        | 1.04         | 0.99                    | 0.32                    | 0.15                   | -16.36                |
| 836.57                | 1.01            | 155.82      | 836.52                | -4.92        | 1.13         | 1.08                    | 0.31                    | 0.15                   | -15.60                |
| 849.71                | 1.03            | 153.87      | 849.66                | -5.13        | 1.23         | 1.18                    | 0.30                    | 0.15                   | -14.84                |
| 862.86                | 1.06            | 152.01      | 862.81                | -5.34        | 1.34         | 1.28                    | 0.34                    | 0.23                   | -14.14                |
| 876.00                | 1.08            | 150.25      | 875.95                | -5.56        | 1.45         | 1.40                    | 0.29                    | 0.15                   | -13.39                |
| 889.29                | 1.09            | 148.84      | 889.23                | -5.78        | 1.58         | 1.53                    | 0.21                    | 0.08                   | -10.61                |
| 902.57                | 1.11            | 147.37      | 902.51                | -5.99        | 1.72         | 1.66                    | 0.26                    | 0.15                   | -11.07                |
| 915.86                | 1.13            | 145.90      | 915.80                | -6.21        | 1.86         | 1.80                    | 0.26                    | 0.15                   | -11.06                |
| 929.14                | 1.15            | 144.49      | 929.08                | -6.43        | 2.01         | 1.95                    | 0.26                    | 0.15                   | -10.62                |
| 942.43                | 1.18            | 143.20      | 942.36                | -6.64        | 2.17         | 2.11                    | 0.30                    | 0.23                   | -9.71                 |
| 955.71                | 1.21            | 142.08      | 955.64                | -6.86        | 2.34         | 2.27                    | 0.29                    | 0.23                   | -8.43                 |
| 969.00                | 1.24            | 141.22      | 968.93                | -7.09        | 2.51         | 2.45                    | 0.26                    | 0.23                   | -6.47                 |
| 982.00                | 1.28            | 140.54      | 981.92                | -7.31        | 2.69         | 2.62                    | 0.33                    | 0.31                   | -5.23                 |
| 995.00                | 1.31            | 140.00      | 994.92                | -7.54        | 2.88         | 2.81                    | 0.25                    | 0.23                   | -4.15                 |
| 1,008.00              | 1.35            | 139.47      | 1,007.92              | -7.77        | 3.08         | 3.00                    | 0.32                    | 0.31                   | -4.08                 |
| 1,021.00              | 1.39            | 138.83      | 1,020.91              | -8.00        | 3.28         | 3.20                    | 0.33                    | 0.31                   | -4.92                 |
| 1,034.00              | 1.43            | 137.93      | 1,033.91              | -8.24        | 3.49         | 3.41                    | 0.35                    | 0.31                   | -6.92                 |
| 1,047.00              | 1.47            | 136.63      | 1,046.91              | -8.48        | 3.72         | 3.63                    | 0.40                    | 0.31                   | -10.00                |
| 1,060.00              | 1.49            | 134.69      | 1,059.90              | -8.72        | 3.95         | 3.87                    | 0.41                    | 0.15                   | -14.92                |
| 1,073.14              | 1.52            | 131.68      | 1,073.04              | -8.96        | 4.20         | 4.12                    | 0.64                    | 0.23                   | -22.91                |
| 1,086.29              | 1.54            | 128.13      | 1,086.18              | -9.18        | 4.47         | 4.38                    | 0.74                    | 0.15                   | -27.00                |
| 1,099.43              | 1.57            | 124.38      | 1,099.32              | -9.39        | 4.76         | 4.67                    | 0.81                    | 0.23                   | -28.54                |
| 1,112.57              | 1.60            | 120.69      | 1,112.45              | -9.59        | 5.06         | 4.97                    | 0.81                    | 0.23                   | -28.08                |
| 1,125.71              | 1.64            | 117.30      | 1,125.59              | -9.77        | 5.39         | 5.30                    | 0.79                    | 0.30                   | -25.80                |
| 1,138.86              | 1.67            | 114.43      | 1,138.73              | -9.93        | 5.73         | 5.64                    | 0.67                    | 0.23                   | -21.83                |
| 1,152.00              | 1.70            | 112.32      | 1,151.87              | -10.09       | 6.09         | 5.99                    | 0.52                    | 0.23                   | -16.06                |
| 1,165.57              | 1.71            | 111.19      | 1,165.43              | -10.24       | 6.46         | 6.36                    | 0.26                    | 0.07                   | -8.33                 |
| 1,179.14              | 1.71            | 110.85      | 1,178.99              | -10.38       | 6.84         | 6.74                    | 0.07                    | 0.00                   | -2.51                 |



## Survey Report

|                  |                                  |                                     |                                       |
|------------------|----------------------------------|-------------------------------------|---------------------------------------|
| <b>Company:</b>  | Colgate Energy                   | <b>Local Co-ordinate Reference:</b> | Well (A04) Toro 22 Fed State Com 122H |
| <b>Project:</b>  | Eddy County, NM (N83-NME)        | <b>TVD Reference:</b>               | 3422+30 @ 3452.00usft                 |
| <b>Site:</b>     | Toro 22 Fed State Com            | <b>MD Reference:</b>                | 3422+30 @ 3452.00usft                 |
| <b>Well:</b>     | (A04) Toro 22 Fed State Com 122H | <b>North Reference:</b>             | Grid                                  |
| <b>Wellbore:</b> | 122H                             | <b>Survey Calculation Method:</b>   | Minimum Curvature                     |
| <b>Design:</b>   | 122H                             | <b>Database:</b>                    | EDM 5000.14 Single User Db            |

| 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) |  |
| 1,192.71              | 1.71            | 111.03      | 1,192.56              | -10.53       | 7.22         | 7.12                    | 0.04                    | 0.00                   | 1.33                  |  |
| 1,206.29              | 1.71            | 111.52      | 1,206.13              | -10.67       | 7.59         | 7.49                    | 0.11                    | 0.00                   | 3.61                  |  |
| 1,219.86              | 1.72            | 112.20      | 1,219.70              | -10.82       | 7.97         | 7.87                    | 0.17                    | 0.07                   | 5.01                  |  |
| 1,233.43              | 1.72            | 112.94      | 1,233.26              | -10.98       | 8.35         | 8.24                    | 0.16                    | 0.00                   | 5.45                  |  |
| 1,247.00              | 1.72            | 113.62      | 1,246.82              | -11.14       | 8.72         | 8.61                    | 0.15                    | 0.00                   | 5.01                  |  |
| 1,260.43              | 1.71            | 114.06      | 1,260.25              | -11.30       | 9.09         | 8.98                    | 0.12                    | -0.07                  | 3.28                  |  |
| 1,273.86              | 1.70            | 114.37      | 1,273.67              | -11.47       | 9.45         | 9.34                    | 0.10                    | -0.07                  | 2.31                  |  |
| 1,287.29              | 1.69            | 114.57      | 1,287.10              | -11.63       | 9.82         | 9.70                    | 0.09                    | -0.07                  | 1.49                  |  |
| 1,300.71              | 1.68            | 114.70      | 1,300.51              | -11.80       | 10.17        | 10.06                   | 0.08                    | -0.07                  | 0.97                  |  |
| 1,314.14              | 1.66            | 114.73      | 1,313.93              | -11.96       | 10.53        | 10.41                   | 0.15                    | -0.15                  | 0.22                  |  |
| 1,327.57              | 1.65            | 114.65      | 1,327.36              | -12.12       | 10.88        | 10.77                   | 0.08                    | -0.07                  | -0.60                 |  |
| 1,341.00              | 1.64            | 114.41      | 1,340.78              | -12.28       | 11.23        | 11.11                   | 0.09                    | -0.07                  | -1.79                 |  |
| 1,354.57              | 1.63            | 113.89      | 1,354.35              | -12.44       | 11.59        | 11.47                   | 0.13                    | -0.07                  | -3.83                 |  |
| 1,368.14              | 1.63            | 113.23      | 1,367.91              | -12.60       | 11.94        | 11.82                   | 0.14                    | 0.00                   | -4.86                 |  |
| 1,381.71              | 1.63            | 112.53      | 1,381.48              | -12.75       | 12.30        | 12.17                   | 0.15                    | 0.00                   | -5.16                 |  |
| 1,395.29              | 1.62            | 111.87      | 1,395.05              | -12.89       | 12.65        | 12.53                   | 0.16                    | -0.07                  | -4.86                 |  |
| 1,408.86              | 1.62            | 111.34      | 1,408.61              | -13.03       | 13.01        | 12.88                   | 0.11                    | 0.00                   | -3.91                 |  |
| 1,422.43              | 1.62            | 111.03      | 1,422.18              | -13.17       | 13.37        | 13.24                   | 0.06                    | 0.00                   | -2.28                 |  |
| 1,436.00              | 1.63            | 111.10      | 1,435.74              | -13.31       | 13.73        | 13.60                   | 0.08                    | 0.07                   | 0.52                  |  |
| 1,449.43              | 1.63            | 111.75      | 1,449.17              | -13.45       | 14.08        | 13.95                   | 0.14                    | 0.00                   | 4.84                  |  |
| 1,462.86              | 1.65            | 112.73      | 1,462.59              | -13.59       | 14.44        | 14.31                   | 0.26                    | 0.15                   | 7.30                  |  |
| 1,476.29              | 1.66            | 113.88      | 1,476.02              | -13.75       | 14.79        | 14.66                   | 0.26                    | 0.07                   | 8.56                  |  |
| 1,489.71              | 1.67            | 115.05      | 1,489.43              | -13.91       | 15.15        | 15.01                   | 0.26                    | 0.07                   | 8.72                  |  |
| 1,503.14              | 1.69            | 116.13      | 1,502.86              | -14.08       | 15.50        | 15.37                   | 0.28                    | 0.15                   | 8.04                  |  |
| 1,516.57              | 1.71            | 117.00      | 1,516.28              | -14.26       | 15.86        | 15.72                   | 0.24                    | 0.15                   | 6.48                  |  |
| 1,530.00              | 1.72            | 117.49      | 1,529.70              | -14.44       | 16.22        | 16.08                   | 0.13                    | 0.07                   | 3.65                  |  |
| 1,543.43              | 1.74            | 117.45      | 1,543.13              | -14.63       | 16.58        | 16.44                   | 0.15                    | 0.15                   | -0.30                 |  |
| 1,556.86              | 1.75            | 117.05      | 1,556.55              | -14.82       | 16.94        | 16.80                   | 0.12                    | 0.07                   | -2.98                 |  |
| 1,570.29              | 1.76            | 116.45      | 1,569.98              | -15.00       | 17.31        | 17.16                   | 0.16                    | 0.07                   | -4.47                 |  |
| 1,583.71              | 1.77            | 115.77      | 1,583.39              | -15.18       | 17.68        | 17.53                   | 0.17                    | 0.07                   | -5.07                 |  |
| 1,597.14              | 1.78            | 115.08      | 1,596.81              | -15.36       | 18.05        | 17.91                   | 0.18                    | 0.07                   | -5.14                 |  |
| 1,610.57              | 1.78            | 114.48      | 1,610.24              | -15.54       | 18.43        | 18.28                   | 0.14                    | 0.00                   | -4.47                 |  |
| 1,624.00              | 1.78            | 114.07      | 1,623.66              | -15.71       | 18.81        | 18.66                   | 0.09                    | 0.00                   | -3.05                 |  |
| 1,637.57              | 1.76            | 114.05      | 1,637.22              | -15.88       | 19.20        | 19.04                   | 0.15                    | -0.15                  | -0.15                 |  |
| 1,651.14              | 1.73            | 114.28      | 1,650.79              | -16.05       | 19.57        | 19.42                   | 0.23                    | -0.22                  | 1.69                  |  |
| 1,664.71              | 1.70            | 114.67      | 1,664.35              | -16.22       | 19.94        | 19.79                   | 0.24                    | -0.22                  | 2.87                  |  |
| 1,678.29              | 1.67            | 115.15      | 1,677.93              | -16.38       | 20.31        | 20.15                   | 0.24                    | -0.22                  | 3.53                  |  |
| 1,691.86              | 1.63            | 115.67      | 1,691.49              | -16.55       | 20.66        | 20.50                   | 0.31                    | -0.29                  | 3.83                  |  |
| 1,705.43              | 1.60            | 116.15      | 1,705.05              | -16.72       | 21.00        | 20.84                   | 0.24                    | -0.22                  | 3.54                  |  |
| 1,719.00              | 1.56            | 116.51      | 1,718.62              | -16.89       | 21.34        | 21.17                   | 0.30                    | -0.29                  | 2.65                  |  |
| 1,732.43              | 1.53            | 116.51      | 1,732.04              | -17.05       | 21.66        | 21.50                   | 0.22                    | -0.22                  | 0.00                  |  |
| 1,745.86              | 1.51            | 116.34      | 1,745.47              | -17.21       | 21.98        | 21.81                   | 0.15                    | -0.15                  | -1.27                 |  |
| 1,759.29              | 1.48            | 116.04      | 1,758.89              | -17.36       | 22.29        | 22.13                   | 0.23                    | -0.22                  | -2.23                 |  |



## Survey Report

|                  |                                  |                                     |                                       |
|------------------|----------------------------------|-------------------------------------|---------------------------------------|
| <b>Company:</b>  | Colgate Energy                   | <b>Local Co-ordinate Reference:</b> | Well (A04) Toro 22 Fed State Com 122H |
| <b>Project:</b>  | Eddy County, NM (N83-NME)        | <b>TVD Reference:</b>               | 3422+30 @ 3452.00usft                 |
| <b>Site:</b>     | Toro 22 Fed State Com            | <b>MD Reference:</b>                | 3422+30 @ 3452.00usft                 |
| <b>Well:</b>     | (A04) Toro 22 Fed State Com 122H | <b>North Reference:</b>             | Grid                                  |
| <b>Wellbore:</b> | 122H                             | <b>Survey Calculation Method:</b>   | Minimum Curvature                     |
| <b>Design:</b>   | 122H                             | <b>Database:</b>                    | EDM 5000.14 Single User Db            |

| 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) |
| 1,772.71              | 1.45            | 115.68      | 1,772.31              | -17.51       | 22.60        | 22.43                   | 0.23                    | -0.22                  | -2.68                 |
| 1,786.14              | 1.43            | 115.27      | 1,785.74              | -17.65       | 22.91        | 22.74                   | 0.17                    | -0.15                  | -3.05                 |
| 1,799.57              | 1.40            | 114.84      | 1,799.16              | -17.80       | 23.21        | 23.04                   | 0.24                    | -0.22                  | -3.20                 |
| 1,813.00              | 1.37            | 114.42      | 1,812.59              | -17.93       | 23.50        | 23.33                   | 0.24                    | -0.22                  | -3.13                 |
| 1,826.57              | 1.34            | 114.10      | 1,826.15              | -18.06       | 23.80        | 23.62                   | 0.23                    | -0.22                  | -2.36                 |
| 1,840.14              | 1.31            | 113.81      | 1,839.72              | -18.19       | 24.08        | 23.91                   | 0.23                    | -0.22                  | -2.14                 |
| 1,853.71              | 1.28            | 113.51      | 1,853.29              | -18.31       | 24.36        | 24.19                   | 0.23                    | -0.22                  | -2.21                 |
| 1,867.29              | 1.25            | 113.18      | 1,866.86              | -18.43       | 24.64        | 24.46                   | 0.23                    | -0.22                  | -2.43                 |
| 1,880.86              | 1.22            | 112.77      | 1,880.43              | -18.55       | 24.91        | 24.73                   | 0.23                    | -0.22                  | -3.02                 |
| 1,894.43              | 1.19            | 112.24      | 1,894.00              | -18.66       | 25.17        | 24.99                   | 0.24                    | -0.22                  | -3.91                 |
| 1,908.00              | 1.17            | 111.48      | 1,907.56              | -18.76       | 25.43        | 25.25                   | 0.19                    | -0.15                  | -5.60                 |
| 1,921.43              | 1.15            | 110.39      | 1,920.99              | -18.86       | 25.69        | 25.50                   | 0.22                    | -0.15                  | -8.12                 |
| 1,934.86              | 1.14            | 109.17      | 1,934.42              | -18.95       | 25.94        | 25.75                   | 0.20                    | -0.07                  | -9.08                 |
| 1,948.29              | 1.13            | 108.02      | 1,947.85              | -19.03       | 26.19        | 26.01                   | 0.19                    | -0.07                  | -8.56                 |
| 1,961.71              | 1.12            | 107.15      | 1,961.26              | -19.11       | 26.44        | 26.26                   | 0.15                    | -0.07                  | -6.48                 |
| 1,975.14              | 1.10            | 106.83      | 1,974.69              | -19.19       | 26.69        | 26.50                   | 0.16                    | -0.15                  | -2.38                 |
| 1,988.57              | 1.09            | 107.39      | 1,988.12              | -19.26       | 26.94        | 26.75                   | 0.11                    | -0.07                  | 4.17                  |
| 2,002.00              | 1.06            | 109.40      | 2,001.55              | -19.34       | 27.17        | 26.99                   | 0.36                    | -0.22                  | 14.97                 |
| 2,015.57              | 1.03            | 114.04      | 2,015.11              | -19.43       | 27.40        | 27.22                   | 0.66                    | -0.22                  | 34.19                 |
| 2,029.14              | 1.01            | 120.46      | 2,028.68              | -19.54       | 27.62        | 27.43                   | 0.85                    | -0.15                  | 47.31                 |
| 2,042.71              | 1.00            | 128.00      | 2,042.25              | -19.68       | 27.81        | 27.62                   | 0.98                    | -0.07                  | 55.56                 |
| 2,056.29              | 1.02            | 135.90      | 2,055.83              | -19.84       | 27.99        | 27.80                   | 1.04                    | 0.15                   | 58.17                 |
| 2,069.86              | 1.06            | 143.41      | 2,069.40              | -20.03       | 28.15        | 27.96                   | 1.05                    | 0.29                   | 55.34                 |
| 2,083.43              | 1.12            | 149.92      | 2,082.96              | -20.24       | 28.29        | 28.10                   | 1.01                    | 0.44                   | 47.97                 |
| 2,097.00              | 1.19            | 155.05      | 2,096.53              | -20.48       | 28.42        | 28.22                   | 0.92                    | 0.52                   | 37.80                 |
| 2,110.43              | 1.65            | 177.20      | 2,109.96              | -20.80       | 28.49        | 28.29                   | 5.27                    | 3.43                   | 164.93                |
| 2,123.86              | 2.50            | 193.33      | 2,123.38              | -21.28       | 28.43        | 28.22                   | 7.62                    | 6.33                   | 120.10                |
| 2,137.29              | 3.04            | 199.87      | 2,136.79              | -21.90       | 28.24        | 28.03                   | 4.65                    | 4.02                   | 48.70                 |
| 2,150.71              | 3.06            | 201.59      | 2,150.19              | -22.57       | 27.99        | 27.77                   | 0.70                    | 0.15                   | 12.82                 |
| 2,164.14              | 3.10            | 203.24      | 2,163.60              | -23.24       | 27.71        | 27.49                   | 0.72                    | 0.30                   | 12.29                 |
| 2,177.57              | 3.13            | 204.76      | 2,177.01              | -23.90       | 27.42        | 27.18                   | 0.65                    | 0.22                   | 11.32                 |
| 2,191.00              | 3.16            | 206.04      | 2,190.42              | -24.57       | 27.10        | 26.86                   | 0.57                    | 0.22                   | 9.53                  |
| 2,204.43              | 4.11            | 211.14      | 2,203.83              | -25.31       | 26.69        | 26.44                   | 7.47                    | 7.07                   | 37.97                 |
| 2,217.86              | 5.02            | 214.94      | 2,217.21              | -26.21       | 26.10        | 25.85                   | 7.14                    | 6.78                   | 28.29                 |
| 2,231.29              | 5.29            | 216.05      | 2,230.59              | -27.19       | 25.40        | 25.14                   | 2.14                    | 2.01                   | 8.27                  |
| 2,244.71              | 5.30            | 216.26      | 2,243.95              | -28.19       | 24.67        | 24.40                   | 0.16                    | 0.07                   | 1.56                  |
| 2,258.14              | 5.31            | 216.41      | 2,257.32              | -29.19       | 23.94        | 23.65                   | 0.13                    | 0.07                   | 1.12                  |
| 2,271.57              | 5.32            | 216.51      | 2,270.70              | -30.19       | 23.20        | 22.91                   | 0.10                    | 0.07                   | 0.74                  |
| 2,285.00              | 5.34            | 216.56      | 2,284.07              | -31.19       | 22.45        | 22.15                   | 0.15                    | 0.15                   | 0.37                  |
| 2,298.57              | 6.00            | 215.97      | 2,297.57              | -32.27       | 21.66        | 21.35                   | 4.88                    | 4.86                   | -4.35                 |
| 2,312.14              | 6.99            | 214.86      | 2,311.06              | -33.52       | 20.77        | 20.45                   | 7.35                    | 7.30                   | -8.18                 |
| 2,325.71              | 7.89            | 214.03      | 2,324.51              | -34.97       | 19.78        | 19.44                   | 6.68                    | 6.63                   | -6.12                 |
| 2,339.29              | 7.95            | 213.97      | 2,337.96              | -36.52       | 18.73        | 18.38                   | 0.45                    | 0.44                   | -0.44                 |
| 2,352.86              | 8.01            | 213.89      | 2,351.40              | -38.09       | 17.68        | 17.31                   | 0.45                    | 0.44                   | -0.59                 |



## Survey Report

|                  |                                  |                                     |                                       |
|------------------|----------------------------------|-------------------------------------|---------------------------------------|
| <b>Company:</b>  | Colgate Energy                   | <b>Local Co-ordinate Reference:</b> | Well (A04) Toro 22 Fed State Com 122H |
| <b>Project:</b>  | Eddy County, NM (N83-NME)        | <b>TVD Reference:</b>               | 3422+30 @ 3452.00usft                 |
| <b>Site:</b>     | Toro 22 Fed State Com            | <b>MD Reference:</b>                | 3422+30 @ 3452.00usft                 |
| <b>Well:</b>     | (A04) Toro 22 Fed State Com 122H | <b>North Reference:</b>             | Grid                                  |
| <b>Wellbore:</b> | 122H                             | <b>Survey Calculation Method:</b>   | Minimum Curvature                     |
| <b>Design:</b>   | 122H                             | <b>Database:</b>                    | EDM 5000.14 Single User Db            |

| 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) |  |
| 2,366.43              | 8.07            | 213.81      | 2,364.84              | -39.66       | 16.62        | 16.24                   | 0.45                    | 0.44                   | -0.59                 |  |
| 2,380.00              | 8.11            | 213.73      | 2,378.27              | -41.25       | 15.56        | 15.17                   | 0.31                    | 0.29                   | -0.59                 |  |
| 2,393.43              | 8.76            | 213.13      | 2,391.56              | -42.90       | 14.48        | 14.06                   | 4.88                    | 4.84                   | -4.47                 |  |
| 2,406.86              | 9.67            | 213.58      | 2,404.81              | -44.69       | 13.29        | 12.86                   | 6.80                    | 6.78                   | 3.35                  |  |
| 2,420.29              | 10.65           | 213.74      | 2,418.03              | -46.66       | 11.98        | 11.53                   | 7.30                    | 7.30                   | 1.19                  |  |
| 2,433.71              | 11.35           | 213.55      | 2,431.21              | -48.80       | 10.56        | 10.09                   | 5.22                    | 5.22                   | -1.42                 |  |
| 2,447.14              | 11.28           | 213.56      | 2,444.37              | -50.99       | 9.11         | 8.62                    | 0.52                    | -0.52                  | 0.07                  |  |
| 2,460.57              | 11.20           | 213.59      | 2,457.55              | -53.17       | 7.66         | 7.15                    | 0.60                    | -0.60                  | 0.22                  |  |
| 2,474.00              | 11.13           | 213.63      | 2,470.72              | -55.34       | 6.22         | 5.69                    | 0.52                    | -0.52                  | 0.30                  |  |
| 2,487.43              | 11.08           | 213.70      | 2,483.90              | -57.49       | 4.79         | 4.23                    | 0.39                    | -0.37                  | 0.52                  |  |
| 2,500.86              | 11.04           | 213.79      | 2,497.08              | -59.63       | 3.35         | 2.78                    | 0.32                    | -0.30                  | 0.67                  |  |
| 2,514.29              | 11.01           | 213.87      | 2,510.26              | -61.77       | 1.92         | 1.33                    | 0.25                    | -0.22                  | 0.60                  |  |
| 2,527.71              | 10.99           | 213.95      | 2,523.44              | -63.89       | 0.50         | -0.12                   | 0.19                    | -0.15                  | 0.60                  |  |
| 2,541.14              | 10.98           | 214.00      | 2,536.62              | -66.01       | -0.93        | -1.57                   | 0.10                    | -0.07                  | 0.37                  |  |
| 2,554.57              | 10.98           | 214.02      | 2,549.81              | -68.13       | -2.37        | -3.02                   | 0.03                    | 0.00                   | 0.15                  |  |
| 2,568.00              | 10.99           | 213.98      | 2,562.99              | -70.26       | -3.80        | -4.47                   | 0.09                    | 0.07                   | -0.30                 |  |
| 2,581.57              | 11.01           | 213.85      | 2,576.31              | -72.41       | -5.24        | -5.94                   | 0.23                    | 0.15                   | -0.96                 |  |
| 2,595.14              | 11.04           | 213.66      | 2,589.63              | -74.56       | -6.68        | -7.40                   | 0.35                    | 0.22                   | -1.40                 |  |
| 2,608.71              | 11.08           | 213.45      | 2,602.95              | -76.73       | -8.12        | -8.86                   | 0.42                    | 0.29                   | -1.55                 |  |
| 2,622.29              | 11.12           | 213.22      | 2,616.27              | -78.92       | -9.56        | -10.32                  | 0.44                    | 0.29                   | -1.69                 |  |
| 2,635.86              | 11.16           | 213.00      | 2,629.59              | -81.11       | -10.99       | -11.77                  | 0.43                    | 0.29                   | -1.62                 |  |
| 2,649.43              | 11.20           | 212.81      | 2,642.90              | -83.32       | -12.42       | -13.22                  | 0.40                    | 0.29                   | -1.40                 |  |
| 2,663.00              | 11.23           | 212.66      | 2,656.21              | -85.54       | -13.85       | -14.67                  | 0.31                    | 0.22                   | -1.11                 |  |
| 2,676.43              | 11.25           | 212.59      | 2,669.38              | -87.75       | -15.26       | -16.10                  | 0.18                    | 0.15                   | -0.52                 |  |
| 2,689.86              | 11.27           | 212.57      | 2,682.55              | -89.96       | -16.67       | -17.53                  | 0.15                    | 0.15                   | -0.15                 |  |
| 2,703.29              | 11.29           | 212.59      | 2,695.73              | -92.17       | -18.09       | -18.97                  | 0.15                    | 0.15                   | 0.15                  |  |
| 2,716.71              | 11.30           | 212.63      | 2,708.89              | -94.38       | -19.50       | -20.41                  | 0.09                    | 0.07                   | 0.30                  |  |
| 2,730.14              | 11.31           | 212.69      | 2,722.05              | -96.60       | -20.92       | -21.85                  | 0.11                    | 0.07                   | 0.45                  |  |
| 2,743.57              | 11.33           | 212.78      | 2,735.22              | -98.82       | -22.35       | -23.30                  | 0.20                    | 0.15                   | 0.67                  |  |
| 2,757.00              | 11.36           | 212.88      | 2,748.39              | -101.04      | -23.78       | -24.75                  | 0.27                    | 0.22                   | 0.74                  |  |
| 2,768.00              | 11.39           | 213.00      | 2,759.18              | -102.86      | -24.96       | -25.95                  | 0.35                    | 0.27                   | 1.09                  |  |
| 2,779.00              | 11.42           | 213.11      | 2,769.96              | -104.68      | -26.15       | -27.15                  | 0.34                    | 0.27                   | 1.00                  |  |
| 2,790.00              | 11.44           | 213.16      | 2,780.74              | -106.51      | -27.34       | -28.36                  | 0.20                    | 0.18                   | 0.45                  |  |
| 2,804.00              | 11.46           | 213.12      | 2,794.46              | -108.83      | -28.86       | -29.90                  | 0.15                    | 0.14                   | -0.29                 |  |
| 2,818.00              | 11.48           | 212.99      | 2,808.18              | -111.17      | -30.38       | -31.44                  | 0.23                    | 0.14                   | -0.93                 |  |
| 2,832.00              | 11.48           | 212.80      | 2,821.90              | -113.51      | -31.89       | -32.98                  | 0.27                    | 0.00                   | -1.36                 |  |
| 2,846.00              | 11.48           | 212.57      | 2,835.62              | -115.85      | -33.39       | -34.50                  | 0.33                    | 0.00                   | -1.64                 |  |
| 2,860.00              | 11.48           | 212.33      | 2,849.34              | -118.20      | -34.89       | -36.02                  | 0.34                    | 0.00                   | -1.71                 |  |
| 2,874.00              | 11.47           | 212.06      | 2,863.06              | -120.56      | -36.37       | -37.53                  | 0.39                    | -0.07                  | -1.93                 |  |
| 2,888.00              | 11.46           | 211.80      | 2,876.78              | -122.92      | -37.84       | -39.02                  | 0.38                    | -0.07                  | -1.86                 |  |
| 2,902.00              | 11.46           | 211.53      | 2,890.50              | -125.29      | -39.30       | -40.51                  | 0.38                    | 0.00                   | -1.93                 |  |
| 2,916.00              | 11.45           | 211.26      | 2,904.22              | -127.66      | -40.75       | -41.98                  | 0.39                    | -0.07                  | -1.93                 |  |
| 2,930.00              | 11.44           | 211.00      | 2,917.95              | -130.04      | -42.19       | -43.44                  | 0.38                    | -0.07                  | -1.86                 |  |



## Survey Report

|                  |                                  |                                     |                                       |
|------------------|----------------------------------|-------------------------------------|---------------------------------------|
| <b>Company:</b>  | Colgate Energy                   | <b>Local Co-ordinate Reference:</b> | Well (A04) Toro 22 Fed State Com 122H |
| <b>Project:</b>  | Eddy County, NM (N83-NME)        | <b>TVD Reference:</b>               | 3422+30 @ 3452.00usft                 |
| <b>Site:</b>     | Toro 22 Fed State Com            | <b>MD Reference:</b>                | 3422+30 @ 3452.00usft                 |
| <b>Well:</b>     | (A04) Toro 22 Fed State Com 122H | <b>North Reference:</b>             | Grid                                  |
| <b>Wellbore:</b> | 122H                             | <b>Survey Calculation Method:</b>   | Minimum Curvature                     |
| <b>Design:</b>   | 122H                             | <b>Database:</b>                    | EDM 5000.14 Single User Db            |

| 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) |
| 2,944.00               | 11.44           | 210.76      | 2,931.67              | -132.42      | -43.61       | -44.88                  | 0.34                    | 0.00                   | -1.71                 |
| 2,957.57               | 11.44           | 210.55      | 2,944.97              | -134.74      | -44.99       | -46.28                  | 0.31                    | 0.00                   | -1.55                 |
| 2,971.14               | 11.45           | 210.36      | 2,958.27              | -137.06      | -46.35       | -47.67                  | 0.29                    | 0.07                   | -1.40                 |
| 2,984.71               | 11.46           | 210.18      | 2,971.57              | -139.39      | -47.71       | -49.05                  | 0.27                    | 0.07                   | -1.33                 |
| 2,998.29               | 11.46           | 210.02      | 2,984.88              | -141.72      | -49.06       | -50.42                  | 0.23                    | 0.00                   | -1.18                 |
| 3,011.86               | 11.47           | 209.88      | 2,998.18              | -144.06      | -50.41       | -51.79                  | 0.22                    | 0.07                   | -1.03                 |
| 3,025.43               | 11.47           | 209.77      | 3,011.48              | -146.40      | -51.75       | -53.15                  | 0.16                    | 0.00                   | -0.81                 |
| 3,039.00               | 11.47           | 209.69      | 3,024.77              | -148.74      | -53.09       | -54.52                  | 0.12                    | 0.00                   | -0.59                 |
| 3,052.43               | 11.46           | 209.65      | 3,037.94              | -151.06      | -54.41       | -55.86                  | 0.10                    | -0.07                  | -0.30                 |
| 3,065.86               | 11.45           | 209.65      | 3,051.10              | -153.38      | -55.73       | -57.20                  | 0.07                    | -0.07                  | 0.00                  |
| 3,079.29               | 11.43           | 209.67      | 3,064.26              | -155.70      | -57.05       | -58.54                  | 0.15                    | -0.15                  | 0.15                  |
| 3,092.29               | 11.41           | 209.71      | 3,077.00              | -157.93      | -58.32       | -59.84                  | 0.16                    | -0.15                  | 0.30                  |
| <b>DLWR Mnt. Group</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 3,092.71               | 11.41           | 209.71      | 3,077.42              | -158.00      | -58.37       | -59.88                  | 0.16                    | -0.15                  | 0.29                  |
| 3,106.14               | 11.39           | 209.75      | 3,090.58              | -160.31      | -59.68       | -61.22                  | 0.16                    | -0.15                  | 0.30                  |
| 3,119.57               | 11.37           | 209.80      | 3,103.75              | -162.61      | -61.00       | -62.56                  | 0.17                    | -0.15                  | 0.37                  |
| 3,133.00               | 11.35           | 209.84      | 3,116.91              | -164.90      | -62.31       | -63.89                  | 0.16                    | -0.15                  | 0.30                  |
| 3,146.57               | 11.34           | 209.88      | 3,130.22              | -167.22      | -63.64       | -65.24                  | 0.09                    | -0.07                  | 0.29                  |
| 3,160.14               | 11.32           | 209.91      | 3,143.52              | -169.53      | -64.97       | -66.60                  | 0.15                    | -0.15                  | 0.22                  |
| 3,173.71               | 11.31           | 209.93      | 3,156.83              | -171.84      | -66.30       | -67.95                  | 0.08                    | -0.07                  | 0.15                  |
| 3,187.29               | 11.30           | 209.96      | 3,170.15              | -174.14      | -67.63       | -69.30                  | 0.09                    | -0.07                  | 0.22                  |
| 3,200.86               | 11.28           | 209.98      | 3,183.45              | -176.45      | -68.95       | -70.65                  | 0.15                    | -0.15                  | 0.15                  |
| 3,214.43               | 11.27           | 210.01      | 3,196.76              | -178.74      | -70.28       | -71.99                  | 0.09                    | -0.07                  | 0.22                  |
| 3,228.00               | 11.25           | 210.03      | 3,210.07              | -181.04      | -71.61       | -73.34                  | 0.15                    | -0.15                  | 0.15                  |
| 3,241.43               | 11.23           | 210.05      | 3,223.24              | -183.30      | -72.92       | -74.67                  | 0.15                    | -0.15                  | 0.15                  |
| 3,254.86               | 11.21           | 210.06      | 3,236.42              | -185.57      | -74.23       | -76.00                  | 0.15                    | -0.15                  | 0.07                  |
| 3,268.29               | 11.18           | 210.08      | 3,249.59              | -187.82      | -75.53       | -77.33                  | 0.23                    | -0.22                  | 0.15                  |
| 3,281.71               | 11.14           | 210.10      | 3,262.76              | -190.07      | -76.83       | -78.66                  | 0.30                    | -0.30                  | 0.15                  |
| 3,295.14               | 11.09           | 210.12      | 3,275.94              | -192.31      | -78.13       | -79.98                  | 0.37                    | -0.37                  | 0.15                  |
| 3,308.57               | 11.01           | 210.14      | 3,289.12              | -194.54      | -79.43       | -81.29                  | 0.60                    | -0.60                  | 0.15                  |
| 3,322.00               | 10.91           | 210.18      | 3,302.30              | -196.74      | -80.71       | -82.59                  | 0.75                    | -0.74                  | 0.30                  |
| 3,335.57               | 10.75           | 210.20      | 3,315.63              | -198.95      | -81.99       | -83.90                  | 1.18                    | -1.18                  | 0.15                  |
| 3,349.14               | 10.57           | 210.23      | 3,328.97              | -201.12      | -83.25       | -85.18                  | 1.33                    | -1.33                  | 0.22                  |
| 3,362.71               | 10.36           | 210.27      | 3,342.31              | -203.25      | -84.50       | -86.44                  | 1.55                    | -1.55                  | 0.29                  |
| 3,376.29               | 10.14           | 210.32      | 3,355.67              | -205.33      | -85.71       | -87.68                  | 1.62                    | -1.62                  | 0.37                  |
| 3,389.86               | 9.92            | 210.40      | 3,369.04              | -207.37      | -86.91       | -88.90                  | 1.62                    | -1.62                  | 0.59                  |
| 3,392.87               | 9.87            | 210.42      | 3,372.00              | -207.82      | -87.17       | -89.16                  | 1.70                    | -1.70                  | 0.72                  |
| <b>Bone Sping Lime</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 3,403.43               | 9.69            | 210.50      | 3,382.41              | -209.36      | -88.08       | -90.09                  | 1.70                    | -1.69                  | 0.74                  |
| 3,417.00               | 9.48            | 210.63      | 3,395.79              | -211.31      | -89.23       | -91.25                  | 1.56                    | -1.55                  | 0.96                  |
| 3,430.43               | 9.29            | 210.83      | 3,409.04              | -213.19      | -90.35       | -92.39                  | 1.44                    | -1.41                  | 1.49                  |
| 3,443.86               | 9.11            | 211.07      | 3,422.30              | -215.03      | -91.45       | -93.51                  | 1.37                    | -1.34                  | 1.79                  |
| 3,457.29               | 8.93            | 211.34      | 3,435.56              | -216.83      | -92.54       | -94.62                  | 1.38                    | -1.34                  | 2.01                  |
| 3,470.71               | 8.76            | 211.62      | 3,448.82              | -218.59      | -93.62       | -95.71                  | 1.31                    | -1.27                  | 2.09                  |



## Survey Report

|                  |                                  |                                     |                                       |
|------------------|----------------------------------|-------------------------------------|---------------------------------------|
| <b>Company:</b>  | Colgate Energy                   | <b>Local Co-ordinate Reference:</b> | Well (A04) Toro 22 Fed State Com 122H |
| <b>Project:</b>  | Eddy County, NM (N83-NME)        | <b>TVD Reference:</b>               | 3422+30 @ 3452.00usft                 |
| <b>Site:</b>     | Toro 22 Fed State Com            | <b>MD Reference:</b>                | 3422+30 @ 3452.00usft                 |
| <b>Well:</b>     | (A04) Toro 22 Fed State Com 122H | <b>North Reference:</b>             | Grid                                  |
| <b>Wellbore:</b> | 122H                             | <b>Survey Calculation Method:</b>   | Minimum Curvature                     |
| <b>Design:</b>   | 122H                             | <b>Database:</b>                    | EDM 5000.14 Single User Db            |

| 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) |  |
| 3,484.14              | 8.59            | 211.91      | 3,462.10              | -220.32      | -94.69       | -96.80                  | 1.31                    | -1.27                  | 2.16                  |  |
| 3,497.57              | 8.42            | 212.20      | 3,475.38              | -222.00      | -95.74       | -97.87                  | 1.31                    | -1.27                  | 2.16                  |  |
| 3,511.00              | 8.25            | 212.48      | 3,488.67              | -223.65      | -96.78       | -98.93                  | 1.30                    | -1.27                  | 2.08                  |  |
| 3,524.57              | 8.07            | 212.69      | 3,502.10              | -225.27      | -97.82       | -99.98                  | 1.34                    | -1.33                  | 1.55                  |  |
| 3,538.14              | 7.89            | 212.88      | 3,515.54              | -226.85      | -98.84       | -101.01                 | 1.34                    | -1.33                  | 1.40                  |  |
| 3,551.71              | 7.71            | 213.07      | 3,528.98              | -228.40      | -99.84       | -102.03                 | 1.34                    | -1.33                  | 1.40                  |  |
| 3,565.29              | 7.54            | 213.27      | 3,542.44              | -229.91      | -100.83      | -103.03                 | 1.27                    | -1.25                  | 1.47                  |  |
| 3,578.86              | 7.37            | 213.49      | 3,555.90              | -231.38      | -101.80      | -104.01                 | 1.27                    | -1.25                  | 1.62                  |  |
| 3,592.43              | 7.22            | 213.77      | 3,569.36              | -232.81      | -102.75      | -104.98                 | 1.14                    | -1.11                  | 2.06                  |  |
| 3,606.00              | 7.09            | 214.13      | 3,582.82              | -234.21      | -103.70      | -105.94                 | 1.01                    | -0.96                  | 2.65                  |  |
| 3,619.43              | 7.00            | 214.62      | 3,596.15              | -235.57      | -104.63      | -106.88                 | 0.81                    | -0.67                  | 3.65                  |  |
| 3,632.86              | 7.47            | 214.89      | 3,609.47              | -236.96      | -105.59      | -107.86                 | 3.51                    | 3.50                   | 2.01                  |  |
| 3,646.29              | 8.95            | 214.44      | 3,622.77              | -238.54      | -106.68      | -108.96                 | 11.03                   | 11.02                  | -3.35                 |  |
| 3,659.71              | 10.61           | 213.04      | 3,635.99              | -240.44      | -107.94      | -110.25                 | 12.49                   | 12.37                  | -10.43                |  |
| 3,673.14              | 10.89           | 214.02      | 3,649.19              | -242.52      | -109.33      | -111.65                 | 2.49                    | 2.08                   | 7.30                  |  |
| 3,686.57              | 10.81           | 214.58      | 3,662.38              | -244.61      | -110.75      | -113.10                 | 0.99                    | -0.60                  | 4.17                  |  |
| 3,700.00              | 10.70           | 215.14      | 3,675.57              | -246.67      | -112.18      | -114.55                 | 1.13                    | -0.82                  | 4.17                  |  |
| 3,713.57              | 10.52           | 215.62      | 3,688.91              | -248.71      | -113.63      | -116.01                 | 1.48                    | -1.33                  | 3.54                  |  |
| 3,727.14              | 10.30           | 216.05      | 3,702.25              | -250.69      | -115.07      | -117.47                 | 1.72                    | -1.62                  | 3.17                  |  |
| 3,740.71              | 10.06           | 216.45      | 3,715.61              | -252.63      | -116.48      | -118.90                 | 1.84                    | -1.77                  | 2.95                  |  |
| 3,754.29              | 9.80            | 216.82      | 3,728.99              | -254.51      | -117.88      | -120.32                 | 1.97                    | -1.91                  | 2.72                  |  |
| 3,767.86              | 9.54            | 217.16      | 3,742.36              | -256.33      | -119.25      | -121.71                 | 1.96                    | -1.92                  | 2.51                  |  |
| 3,781.43              | 9.28            | 217.44      | 3,755.75              | -258.09      | -120.60      | -123.07                 | 1.95                    | -1.92                  | 2.06                  |  |
| 3,795.00              | 9.03            | 217.64      | 3,769.15              | -259.80      | -121.91      | -124.40                 | 1.86                    | -1.84                  | 1.47                  |  |
| 3,808.57              | 8.80            | 217.68      | 3,782.55              | -261.47      | -123.20      | -125.70                 | 1.70                    | -1.69                  | 0.29                  |  |
| 3,822.14              | 8.59            | 217.61      | 3,795.97              | -263.09      | -124.45      | -126.97                 | 1.55                    | -1.55                  | -0.52                 |  |
| 3,835.71              | 8.39            | 217.47      | 3,809.39              | -264.68      | -125.67      | -128.21                 | 1.48                    | -1.47                  | -1.03                 |  |
| 3,849.29              | 8.20            | 217.27      | 3,822.83              | -266.24      | -126.86      | -129.41                 | 1.42                    | -1.40                  | -1.47                 |  |
| 3,862.86              | 8.02            | 217.02      | 3,836.26              | -267.77      | -128.02      | -130.58                 | 1.35                    | -1.33                  | -1.84                 |  |
| 3,876.43              | 7.85            | 216.73      | 3,849.70              | -269.26      | -129.14      | -131.72                 | 1.29                    | -1.25                  | -2.14                 |  |
| 3,890.00              | 7.70            | 216.44      | 3,863.15              | -270.74      | -130.24      | -132.83                 | 1.14                    | -1.11                  | -2.14                 |  |
| 3,903.43              | 7.58            | 216.21      | 3,876.46              | -272.18      | -131.29      | -133.90                 | 0.92                    | -0.89                  | -1.71                 |  |
| 3,916.86              | 8.48            | 210.80      | 3,889.76              | -273.74      | -132.32      | -134.94                 | 8.74                    | 6.70                   | -40.28                |  |
| 3,930.29              | 9.90            | 206.56      | 3,903.01              | -275.63      | -133.35      | -135.99                 | 11.71                   | 10.57                  | -31.57                |  |
| 3,943.71              | 10.66           | 205.06      | 3,916.22              | -277.78      | -134.39      | -137.05                 | 6.00                    | 5.66                   | -11.18                |  |
| 3,957.14              | 10.58           | 205.06      | 3,929.42              | -280.02      | -135.44      | -138.12                 | 0.60                    | -0.60                  | 0.00                  |  |
| 3,970.57              | 10.50           | 205.09      | 3,942.62              | -282.25      | -136.48      | -139.18                 | 0.60                    | -0.60                  | 0.22                  |  |
| 3,984.00              | 10.40           | 205.16      | 3,955.83              | -284.45      | -137.51      | -140.24                 | 0.75                    | -0.74                  | 0.52                  |  |
| 3,997.57              | 10.25           | 205.31      | 3,969.18              | -286.65      | -138.55      | -141.29                 | 1.12                    | -1.11                  | 1.11                  |  |
| 4,011.14              | 10.07           | 205.52      | 3,982.54              | -288.82      | -139.58      | -142.34                 | 1.35                    | -1.33                  | 1.55                  |  |
| 4,024.71              | 9.88            | 205.75      | 3,995.90              | -290.94      | -140.59      | -143.38                 | 1.43                    | -1.40                  | 1.69                  |  |
| 4,038.29              | 9.68            | 206.00      | 4,009.28              | -293.01      | -141.60      | -144.41                 | 1.51                    | -1.47                  | 1.84                  |  |
| 4,051.86              | 9.48            | 206.25      | 4,022.66              | -295.04      | -142.59      | -145.42                 | 1.51                    | -1.47                  | 1.84                  |  |



## Survey Report

|                  |                                  |                                     |                                       |
|------------------|----------------------------------|-------------------------------------|---------------------------------------|
| <b>Company:</b>  | Colgate Energy                   | <b>Local Co-ordinate Reference:</b> | Well (A04) Toro 22 Fed State Com 122H |
| <b>Project:</b>  | Eddy County, NM (N83-NME)        | <b>TVD Reference:</b>               | 3422+30 @ 3452.00usft                 |
| <b>Site:</b>     | Toro 22 Fed State Com            | <b>MD Reference:</b>                | 3422+30 @ 3452.00usft                 |
| <b>Well:</b>     | (A04) Toro 22 Fed State Com 122H | <b>North Reference:</b>             | Grid                                  |
| <b>Wellbore:</b> | 122H                             | <b>Survey Calculation Method:</b>   | Minimum Curvature                     |
| <b>Design:</b>   | 122H                             | <b>Database:</b>                    | EDM 5000.14 Single User Db            |

| 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) |  |
| 4,065.43              | 9.29            | 206.50      | 4,036.05              | -297.02      | -143.58      | -146.42                 | 1.43                    | -1.40                  | 1.84                  |  |
| 4,079.00              | 9.10            | 206.74      | 4,049.45              | -298.96      | -144.55      | -147.41                 | 1.43                    | -1.40                  | 1.77                  |  |
| 4,092.43              | 8.93            | 206.89      | 4,062.71              | -300.84      | -145.50      | -148.38                 | 1.28                    | -1.27                  | 1.12                  |  |
| 4,105.86              | 8.77            | 207.01      | 4,075.98              | -302.68      | -146.43      | -149.33                 | 1.20                    | -1.19                  | 0.89                  |  |
| 4,119.29              | 8.63            | 207.09      | 4,089.26              | -304.49      | -147.36      | -150.27                 | 1.05                    | -1.04                  | 0.60                  |  |
| 4,132.71              | 8.49            | 207.13      | 4,102.53              | -306.27      | -148.27      | -151.20                 | 1.04                    | -1.04                  | 0.30                  |  |
| 4,146.14              | 8.38            | 207.11      | 4,115.81              | -308.02      | -149.17      | -152.12                 | 0.82                    | -0.82                  | -0.15                 |  |
| 4,159.57              | 8.28            | 207.03      | 4,129.10              | -309.75      | -150.05      | -153.02                 | 0.75                    | -0.74                  | -0.60                 |  |
| 4,173.00              | 8.21            | 206.85      | 4,142.39              | -311.47      | -150.92      | -153.91                 | 0.56                    | -0.52                  | -1.34                 |  |
| 4,186.57              | 8.18            | 206.54      | 4,155.82              | -313.20      | -151.79      | -154.79                 | 0.39                    | -0.22                  | -2.28                 |  |
| 4,200.14              | 9.59            | 203.52      | 4,169.23              | -315.10      | -152.68      | -155.69                 | 10.94                   | 10.39                  | -22.25                |  |
| 4,213.71              | 11.00           | 199.35      | 4,182.58              | -317.36      | -153.56      | -156.60                 | 11.75                   | 10.39                  | -30.73                |  |
| 4,227.29              | 11.05           | 199.11      | 4,195.91              | -319.81      | -154.41      | -157.47                 | 0.50                    | 0.37                   | -1.77                 |  |
| 4,240.86              | 11.12           | 198.87      | 4,209.23              | -322.28      | -155.26      | -158.35                 | 0.62                    | 0.52                   | -1.77                 |  |
| 4,254.43              | 11.19           | 198.67      | 4,222.54              | -324.76      | -156.11      | -159.22                 | 0.59                    | 0.52                   | -1.47                 |  |
| 4,268.00              | 11.25           | 198.54      | 4,235.85              | -327.26      | -156.95      | -160.08                 | 0.48                    | 0.44                   | -0.96                 |  |
| 4,281.43              | 11.73           | 197.56      | 4,249.01              | -329.81      | -157.78      | -160.93                 | 3.86                    | 3.57                   | -7.30                 |  |
| 4,294.86              | 13.15           | 195.83      | 4,262.13              | -332.58      | -158.60      | -161.79                 | 10.93                   | 10.57                  | -12.88                |  |
| 4,308.29              | 14.71           | 195.92      | 4,275.16              | -335.69      | -159.49      | -162.70                 | 11.62                   | 11.62                  | 0.67                  |  |
| 4,321.71              | 14.72           | 196.16      | 4,288.14              | -338.96      | -160.43      | -163.68                 | 0.46                    | 0.07                   | 1.79                  |  |
| 4,335.14              | 14.72           | 196.45      | 4,301.13              | -342.24      | -161.39      | -164.67                 | 0.55                    | 0.00                   | 2.16                  |  |
| 4,348.57              | 14.70           | 196.74      | 4,314.12              | -345.51      | -162.36      | -165.67                 | 0.57                    | -0.15                  | 2.16                  |  |
| 4,362.00              | 14.66           | 197.00      | 4,327.11              | -348.76      | -163.35      | -166.69                 | 0.57                    | -0.30                  | 1.94                  |  |
| 4,375.57              | 14.58           | 197.18      | 4,340.24              | -352.04      | -164.36      | -167.73                 | 0.68                    | -0.59                  | 1.33                  |  |
| 4,389.14              | 14.47           | 197.31      | 4,353.38              | -355.29      | -165.37      | -168.77                 | 0.85                    | -0.81                  | 0.96                  |  |
| 4,402.71              | 14.34           | 197.40      | 4,366.52              | -358.51      | -166.37      | -169.81                 | 0.97                    | -0.96                  | 0.66                  |  |
| 4,416.29              | 14.20           | 197.46      | 4,379.69              | -361.70      | -167.38      | -170.84                 | 1.04                    | -1.03                  | 0.44                  |  |
| 4,429.86              | 14.05           | 197.50      | 4,392.84              | -364.86      | -168.37      | -171.87                 | 1.11                    | -1.11                  | 0.29                  |  |
| 4,443.43              | 13.90           | 197.52      | 4,406.01              | -367.99      | -169.36      | -172.88                 | 1.11                    | -1.11                  | 0.15                  |  |
| 4,457.00              | 13.74           | 197.52      | 4,419.19              | -371.08      | -170.33      | -173.89                 | 1.18                    | -1.18                  | 0.00                  |  |
| 4,470.43              | 13.59           | 197.51      | 4,432.24              | -374.11      | -171.29      | -174.87                 | 1.12                    | -1.12                  | -0.07                 |  |
| 4,483.86              | 13.43           | 197.47      | 4,445.30              | -377.10      | -172.23      | -175.84                 | 1.19                    | -1.19                  | -0.30                 |  |
| 4,497.29              | 13.27           | 197.42      | 4,458.37              | -380.06      | -173.16      | -176.80                 | 1.19                    | -1.19                  | -0.37                 |  |
| 4,510.71              | 13.11           | 197.36      | 4,471.43              | -382.98      | -174.07      | -177.74                 | 1.20                    | -1.19                  | -0.45                 |  |
| 4,524.14              | 12.95           | 197.28      | 4,484.52              | -385.87      | -174.98      | -178.67                 | 1.20                    | -1.19                  | -0.60                 |  |
| 4,537.57              | 12.77           | 197.19      | 4,497.61              | -388.72      | -175.86      | -179.59                 | 1.35                    | -1.34                  | -0.67                 |  |
| 4,551.00              | 12.59           | 197.08      | 4,510.71              | -391.54      | -176.73      | -180.48                 | 1.35                    | -1.34                  | -0.82                 |  |
| 4,564.57              | 12.38           | 196.97      | 4,523.96              | -394.35      | -177.59      | -181.37                 | 1.56                    | -1.55                  | -0.81                 |  |
| 4,578.14              | 12.17           | 196.85      | 4,537.22              | -397.11      | -178.43      | -182.23                 | 1.56                    | -1.55                  | -0.88                 |  |
| 4,591.71              | 11.94           | 196.72      | 4,550.49              | -399.82      | -179.25      | -183.08                 | 1.71                    | -1.69                  | -0.96                 |  |
| 4,605.29              | 11.71           | 196.58      | 4,563.78              | -402.49      | -180.04      | -183.90                 | 1.71                    | -1.69                  | -1.03                 |  |
| 4,618.86              | 11.47           | 196.43      | 4,577.08              | -405.10      | -180.82      | -184.70                 | 1.78                    | -1.77                  | -1.11                 |  |
| 4,632.43              | 11.23           | 196.29      | 4,590.38              | -407.66      | -181.57      | -185.48                 | 1.78                    | -1.77                  | -1.03                 |  |



## Survey Report

|                  |                                  |                                     |                                       |
|------------------|----------------------------------|-------------------------------------|---------------------------------------|
| <b>Company:</b>  | Colgate Energy                   | <b>Local Co-ordinate Reference:</b> | Well (A04) Toro 22 Fed State Com 122H |
| <b>Project:</b>  | Eddy County, NM (N83-NME)        | <b>TVD Reference:</b>               | 3422+30 @ 3452.00usft                 |
| <b>Site:</b>     | Toro 22 Fed State Com            | <b>MD Reference:</b>                | 3422+30 @ 3452.00usft                 |
| <b>Well:</b>     | (A04) Toro 22 Fed State Com 122H | <b>North Reference:</b>             | Grid                                  |
| <b>Wellbore:</b> | 122H                             | <b>Survey Calculation Method:</b>   | Minimum Curvature                     |
| <b>Design:</b>   | 122H                             | <b>Database:</b>                    | EDM 5000.14 Single User Db            |

| 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) |  |
| 4,646.00              | 10.97           | 196.17      | 4,603.70              | -410.17      | -182.30      | -186.23                 | 1.92                    | -1.92                  | -0.88                 |  |
| 4,659.57              | 10.71           | 196.07      | 4,617.02              | -412.62      | -183.01      | -186.96                 | 1.92                    | -1.92                  | -0.74                 |  |
| 4,673.14              | 10.44           | 195.99      | 4,630.36              | -415.02      | -183.70      | -187.67                 | 1.99                    | -1.99                  | -0.59                 |  |
| 4,686.71              | 10.17           | 195.94      | 4,643.72              | -417.35      | -184.37      | -188.36                 | 1.99                    | -1.99                  | -0.37                 |  |
| 4,700.29              | 9.91            | 195.93      | 4,657.09              | -419.63      | -185.02      | -189.04                 | 1.91                    | -1.91                  | -0.07                 |  |
| 4,713.86              | 9.66            | 195.97      | 4,670.46              | -421.84      | -185.65      | -189.69                 | 1.84                    | -1.84                  | 0.29                  |  |
| 4,727.43              | 9.42            | 196.09      | 4,683.84              | -424.01      | -186.27      | -190.33                 | 1.77                    | -1.77                  | 0.88                  |  |
| 4,741.00              | 9.22            | 196.35      | 4,697.23              | -426.12      | -186.88      | -190.97                 | 1.51                    | -1.47                  | 1.92                  |  |
| 4,754.43              | 9.08            | 196.85      | 4,710.49              | -428.16      | -187.49      | -191.60                 | 1.20                    | -1.04                  | 3.72                  |  |
| 4,767.86              | 8.96            | 197.46      | 4,723.76              | -430.17      | -188.12      | -192.24                 | 1.14                    | -0.89                  | 4.54                  |  |
| 4,781.29              | 8.86            | 198.11      | 4,737.02              | -432.15      | -188.75      | -192.89                 | 1.06                    | -0.74                  | 4.84                  |  |
| 4,794.71              | 9.26            | 198.96      | 4,750.28              | -434.16      | -189.42      | -193.58                 | 3.14                    | 2.98                   | 6.33                  |  |
| 4,808.14              | 10.36           | 200.23      | 4,763.51              | -436.31      | -190.19      | -194.37                 | 8.35                    | 8.19                   | 9.46                  |  |
| 4,821.57              | 10.27           | 200.72      | 4,776.72              | -438.57      | -191.03      | -195.23                 | 0.94                    | -0.67                  | 3.65                  |  |
| 4,835.00              | 10.18           | 201.12      | 4,789.94              | -440.79      | -191.88      | -196.11                 | 0.85                    | -0.67                  | 2.98                  |  |
| 4,848.43              | 10.08           | 201.25      | 4,803.16              | -443.00      | -192.74      | -196.98                 | 0.76                    | -0.74                  | 0.97                  |  |
| 4,861.86              | 9.96            | 201.23      | 4,816.39              | -445.17      | -193.58      | -197.85                 | 0.89                    | -0.89                  | -0.15                 |  |
| 4,875.29              | 9.84            | 201.11      | 4,829.62              | -447.33      | -194.42      | -198.70                 | 0.91                    | -0.89                  | -0.89                 |  |
| 4,888.71              | 9.72            | 200.93      | 4,842.84              | -449.45      | -195.24      | -199.54                 | 0.92                    | -0.89                  | -1.34                 |  |
| 4,902.14              | 9.59            | 200.71      | 4,856.08              | -451.56      | -196.04      | -200.36                 | 1.01                    | -0.97                  | -1.64                 |  |
| 4,915.57              | 9.47            | 200.50      | 4,869.32              | -453.64      | -196.82      | -201.16                 | 0.93                    | -0.89                  | -1.56                 |  |
| 4,929.00              | 9.35            | 200.32      | 4,882.57              | -455.70      | -197.58      | -201.95                 | 0.92                    | -0.89                  | -1.34                 |  |
| 4,942.57              | 9.24            | 200.27      | 4,895.97              | -457.75      | -198.34      | -202.73                 | 0.81                    | -0.81                  | -0.37                 |  |
| 4,956.14              | 9.13            | 200.27      | 4,909.36              | -459.79      | -199.09      | -203.50                 | 0.81                    | -0.81                  | 0.00                  |  |
| 4,969.71              | 9.02            | 200.32      | 4,922.76              | -461.79      | -199.84      | -204.26                 | 0.81                    | -0.81                  | 0.37                  |  |
| 4,983.29              | 8.92            | 200.40      | 4,936.18              | -463.78      | -200.57      | -205.02                 | 0.74                    | -0.74                  | 0.59                  |  |
| 4,996.86              | 8.81            | 200.52      | 4,949.58              | -465.74      | -201.30      | -205.77                 | 0.82                    | -0.81                  | 0.88                  |  |
| 5,010.43              | 8.71            | 200.68      | 4,963.00              | -467.67      | -202.03      | -206.51                 | 0.76                    | -0.74                  | 1.18                  |  |
| 5,024.00              | 8.61            | 200.88      | 4,976.41              | -469.58      | -202.76      | -207.26                 | 0.77                    | -0.74                  | 1.47                  |  |
| 5,037.43              | 8.51            | 201.17      | 4,989.69              | -471.45      | -203.47      | -207.99                 | 0.81                    | -0.74                  | 2.16                  |  |
| 5,050.86              | 8.41            | 201.50      | 5,002.98              | -473.29      | -204.19      | -208.73                 | 0.83                    | -0.74                  | 2.46                  |  |
| 5,064.29              | 8.32            | 201.86      | 5,016.26              | -475.11      | -204.91      | -209.47                 | 0.78                    | -0.67                  | 2.68                  |  |
| 5,077.71              | 8.22            | 202.23      | 5,029.54              | -476.89      | -205.64      | -210.21                 | 0.84                    | -0.75                  | 2.76                  |  |
| 5,091.14              | 8.12            | 202.59      | 5,042.84              | -478.66      | -206.37      | -210.95                 | 0.84                    | -0.74                  | 2.68                  |  |
| 5,104.57              | 8.03            | 202.94      | 5,056.13              | -480.40      | -207.10      | -211.70                 | 0.76                    | -0.67                  | 2.61                  |  |
| 5,118.00              | 7.93            | 203.24      | 5,069.43              | -482.11      | -207.83      | -212.45                 | 0.81                    | -0.74                  | 2.23                  |  |
| 5,131.57              | 7.83            | 203.44      | 5,082.87              | -483.82      | -208.56      | -213.20                 | 0.76                    | -0.74                  | 1.47                  |  |
| 5,145.14              | 7.73            | 203.60      | 5,096.32              | -485.51      | -209.30      | -213.95                 | 0.75                    | -0.74                  | 1.18                  |  |
| 5,158.71              | 7.64            | 203.72      | 5,109.77              | -487.17      | -210.03      | -214.69                 | 0.67                    | -0.66                  | 0.88                  |  |
| 5,172.29              | 7.54            | 203.84      | 5,123.23              | -488.81      | -210.75      | -215.43                 | 0.75                    | -0.74                  | 0.88                  |  |
| 5,185.86              | 7.43            | 203.97      | 5,136.68              | -490.43      | -211.47      | -216.16                 | 0.82                    | -0.81                  | 0.96                  |  |
| 5,199.43              | 7.33            | 204.14      | 5,150.14              | -492.02      | -212.18      | -216.89                 | 0.75                    | -0.74                  | 1.25                  |  |
| 5,213.00              | 7.23            | 204.38      | 5,163.60              | -493.59      | -212.88      | -217.61                 | 0.77                    | -0.74                  | 1.77                  |  |
| 5,226.43              | 7.12            | 204.74      | 5,176.93              | -495.11      | -213.58      | -218.32                 | 0.88                    | -0.82                  | 2.68                  |  |



## Survey Report

|                  |                                  |                                     |                                       |
|------------------|----------------------------------|-------------------------------------|---------------------------------------|
| <b>Company:</b>  | Colgate Energy                   | <b>Local Co-ordinate Reference:</b> | Well (A04) Toro 22 Fed State Com 122H |
| <b>Project:</b>  | Eddy County, NM (N83-NME)        | <b>TVD Reference:</b>               | 3422+30 @ 3452.00usft                 |
| <b>Site:</b>     | Toro 22 Fed State Com            | <b>MD Reference:</b>                | 3422+30 @ 3452.00usft                 |
| <b>Well:</b>     | (A04) Toro 22 Fed State Com 122H | <b>North Reference:</b>             | Grid                                  |
| <b>Wellbore:</b> | 122H                             | <b>Survey Calculation Method:</b>   | Minimum Curvature                     |
| <b>Design:</b>   | 122H                             | <b>Database:</b>                    | EDM 5000.14 Single User Db            |

| 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) |  |
| 5,239.86              | 7.01            | 205.17      | 5,190.25              | -496.61      | -214.28      | -219.03                 | 0.91                    | -0.82                  | 3.20                  |  |
| 5,253.29              | 6.91            | 205.66      | 5,203.59              | -498.08      | -214.98      | -219.75                 | 0.87                    | -0.74                  | 3.65                  |  |
| 5,266.71              | 6.82            | 206.17      | 5,216.91              | -499.52      | -215.68      | -220.46                 | 0.81                    | -0.67                  | 3.80                  |  |
| 5,280.14              | 6.75            | 206.68      | 5,230.25              | -500.94      | -216.38      | -221.18                 | 0.69                    | -0.52                  | 3.80                  |  |
| 5,293.57              | 6.71            | 207.16      | 5,243.58              | -502.35      | -217.09      | -221.91                 | 0.51                    | -0.30                  | 3.57                  |  |
| 5,307.00              | 6.71            | 207.58      | 5,256.92              | -503.74      | -217.82      | -222.64                 | 0.37                    | 0.00                   | 3.13                  |  |
| 5,320.57              | 6.79            | 207.90      | 5,270.40              | -505.15      | -218.56      | -223.40                 | 0.65                    | 0.59                   | 2.36                  |  |
| 5,334.14              | 6.90            | 208.15      | 5,283.87              | -506.58      | -219.32      | -224.17                 | 0.84                    | 0.81                   | 1.84                  |  |
| 5,347.71              | 7.04            | 208.36      | 5,297.34              | -508.03      | -220.10      | -224.96                 | 1.05                    | 1.03                   | 1.55                  |  |
| 5,361.29              | 7.19            | 208.54      | 5,310.82              | -509.51      | -220.90      | -225.78                 | 1.12                    | 1.10                   | 1.33                  |  |
| 5,374.86              | 7.32            | 208.73      | 5,324.28              | -511.01      | -221.72      | -226.62                 | 0.97                    | 0.96                   | 1.40                  |  |
| 5,388.43              | 7.43            | 208.93      | 5,337.73              | -512.54      | -222.56      | -227.47                 | 0.83                    | 0.81                   | 1.47                  |  |
| 5,402.00              | 8.13            | 207.99      | 5,351.18              | -514.15      | -223.44      | -228.36                 | 5.24                    | 5.16                   | -6.93                 |  |
| 5,415.43              | 9.35            | 206.26      | 5,364.45              | -515.97      | -224.36      | -229.31                 | 9.29                    | 9.08                   | -12.88                |  |
| 5,428.86              | 10.67           | 205.09      | 5,377.68              | -518.07      | -225.37      | -230.34                 | 9.94                    | 9.83                   | -8.71                 |  |
| 5,442.29              | 11.53           | 205.27      | 5,390.86              | -520.41      | -226.47      | -231.46                 | 6.41                    | 6.40                   | 1.34                  |  |
| 5,455.71              | 11.52           | 205.67      | 5,404.01              | -522.83      | -227.63      | -232.64                 | 0.60                    | -0.07                  | 2.98                  |  |
| 5,469.14              | 11.51           | 206.09      | 5,417.17              | -525.25      | -228.80      | -233.83                 | 0.63                    | -0.07                  | 3.13                  |  |
| 5,482.57              | 11.49           | 206.51      | 5,430.33              | -527.65      | -229.98      | -235.04                 | 0.64                    | -0.15                  | 3.13                  |  |
| 5,496.00              | 11.44           | 206.90      | 5,443.49              | -530.03      | -231.18      | -236.26                 | 0.69                    | -0.37                  | 2.90                  |  |
| 5,509.57              | 11.36           | 207.21      | 5,456.79              | -532.42      | -232.40      | -237.50                 | 0.74                    | -0.59                  | 2.28                  |  |
| 5,523.14              | 11.25           | 207.47      | 5,470.10              | -534.78      | -233.62      | -238.75                 | 0.89                    | -0.81                  | 1.92                  |  |
| 5,536.71              | 11.12           | 207.68      | 5,483.41              | -537.12      | -234.84      | -239.99                 | 1.00                    | -0.96                  | 1.55                  |  |
| 5,550.29              | 10.98           | 207.86      | 5,496.74              | -539.42      | -236.06      | -241.22                 | 1.06                    | -1.03                  | 1.33                  |  |
| 5,563.86              | 10.83           | 207.99      | 5,510.06              | -541.69      | -237.26      | -242.45                 | 1.12                    | -1.11                  | 0.96                  |  |
| 5,577.43              | 10.66           | 208.07      | 5,523.40              | -543.92      | -238.45      | -243.66                 | 1.26                    | -1.25                  | 0.59                  |  |
| 5,591.00              | 10.50           | 208.09      | 5,536.73              | -546.12      | -239.62      | -244.85                 | 1.18                    | -1.18                  | 0.15                  |  |
| 5,604.43              | 10.34           | 207.98      | 5,549.94              | -548.26      | -240.76      | -246.01                 | 1.20                    | -1.19                  | -0.82                 |  |
| 5,617.86              | 10.17           | 207.80      | 5,563.16              | -550.38      | -241.88      | -247.15                 | 1.29                    | -1.27                  | -1.34                 |  |
| 5,631.29              | 9.99            | 207.59      | 5,576.38              | -552.46      | -242.97      | -248.26                 | 1.37                    | -1.34                  | -1.56                 |  |
| 5,644.71              | 9.79            | 207.36      | 5,589.60              | -554.50      | -244.04      | -249.35                 | 1.52                    | -1.49                  | -1.71                 |  |
| 5,658.14              | 9.56            | 207.14      | 5,602.84              | -556.51      | -245.07      | -250.40                 | 1.73                    | -1.71                  | -1.64                 |  |
| 5,671.57              | 9.30            | 206.96      | 5,616.09              | -558.47      | -246.07      | -251.42                 | 1.95                    | -1.94                  | -1.34                 |  |
| 5,685.00              | 9.61            | 203.97      | 5,629.34              | -560.46      | -247.02      | -252.39                 | 4.32                    | 2.31                   | -22.26                |  |
| 5,698.57              | 10.43           | 200.17      | 5,642.70              | -562.65      | -247.90      | -253.29                 | 7.76                    | 6.04                   | -28.00                |  |
| 5,712.14              | 11.44           | 197.67      | 5,656.02              | -565.08      | -248.73      | -254.15                 | 8.22                    | 7.44                   | -18.42                |  |
| 5,725.71              | 11.81           | 196.88      | 5,669.31              | -567.70      | -249.54      | -254.98                 | 2.97                    | 2.73                   | -5.82                 |  |
| 5,739.29              | 11.04           | 197.44      | 5,682.63              | -570.27      | -250.34      | -255.80                 | 5.73                    | -5.67                  | 4.12                  |  |
| 5,752.86              | 10.20           | 198.16      | 5,695.96              | -572.65      | -251.10      | -256.59                 | 6.27                    | -6.19                  | 5.31                  |  |
| 5,766.43              | 9.35            | 199.06      | 5,709.34              | -574.83      | -251.84      | -257.34                 | 6.36                    | -6.26                  | 6.63                  |  |
| 5,780.00              | 8.55            | 200.15      | 5,722.74              | -576.82      | -252.54      | -258.07                 | 6.03                    | -5.90                  | 8.03                  |  |
| 5,793.43              | 7.88            | 200.97      | 5,736.03              | -578.62      | -253.22      | -258.76                 | 5.06                    | -4.99                  | 6.11                  |  |
| 5,806.86              | 7.28            | 201.91      | 5,749.35              | -580.27      | -253.86      | -259.42                 | 4.56                    | -4.47                  | 7.00                  |  |



## Survey Report

|                  |                                  |                                     |                                       |
|------------------|----------------------------------|-------------------------------------|---------------------------------------|
| <b>Company:</b>  | Colgate Energy                   | <b>Local Co-ordinate Reference:</b> | Well (A04) Toro 22 Fed State Com 122H |
| <b>Project:</b>  | Eddy County, NM (N83-NME)        | <b>TVD Reference:</b>               | 3422+30 @ 3452.00usft                 |
| <b>Site:</b>     | Toro 22 Fed State Com            | <b>MD Reference:</b>                | 3422+30 @ 3452.00usft                 |
| <b>Well:</b>     | (A04) Toro 22 Fed State Com 122H | <b>North Reference:</b>             | Grid                                  |
| <b>Wellbore:</b> | 122H                             | <b>Survey Calculation Method:</b>   | Minimum Curvature                     |
| <b>Design:</b>   | 122H                             | <b>Database:</b>                    | EDM 5000.14 Single User Db            |

| 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) |
| 5,820.29              | 6.75            | 202.95      | 5,762.67              | -581.78      | -254.49      | -260.06                 | 4.06                    | -3.95                  | 7.74                  |
| 5,833.71              | 6.27            | 204.09      | 5,776.01              | -583.18      | -255.10      | -260.68                 | 3.70                    | -3.58                  | 8.49                  |
| 5,847.14              | 5.83            | 205.30      | 5,789.36              | -584.46      | -255.69      | -261.29                 | 3.41                    | -3.28                  | 9.01                  |
| 5,860.57              | 5.45            | 206.55      | 5,802.73              | -585.65      | -256.26      | -261.87                 | 2.97                    | -2.83                  | 9.31                  |
| 5,874.00              | 6.36            | 202.29      | 5,816.09              | -586.91      | -256.83      | -262.45                 | 7.52                    | 6.78                   | -31.72                |
| 5,887.57              | 7.59            | 197.78      | 5,829.56              | -588.46      | -257.39      | -263.03                 | 9.92                    | 9.06                   | -33.24                |
| 5,901.14              | 8.91            | 194.28      | 5,842.99              | -590.33      | -257.92      | -263.58                 | 10.40                   | 9.73                   | -25.79                |
| 5,914.71              | 10.11           | 192.17      | 5,856.37              | -592.51      | -258.43      | -264.11                 | 9.21                    | 8.84                   | -15.55                |
| 5,928.29              | 10.08           | 192.50      | 5,869.74              | -594.84      | -258.94      | -264.64                 | 0.48                    | -0.22                  | 2.43                  |
| 5,941.86              | 10.78           | 191.51      | 5,883.08              | -597.24      | -259.45      | -265.17                 | 5.32                    | 5.16                   | -7.30                 |
| 5,955.43              | 11.62           | 190.93      | 5,896.40              | -599.83      | -259.96      | -265.71                 | 6.25                    | 6.19                   | -4.27                 |
| 5,969.00              | 11.60           | 191.40      | 5,909.69              | -602.51      | -260.49      | -266.26                 | 0.71                    | -0.15                  | 3.46                  |
| 5,982.57              | 11.97           | 190.48      | 5,922.97              | -605.23      | -261.02      | -266.82                 | 3.06                    | 2.73                   | -6.78                 |
| 5,996.14              | 12.91           | 188.21      | 5,936.22              | -608.11      | -261.49      | -267.32                 | 7.81                    | 6.93                   | -16.73                |
| 6,009.71              | 14.06           | 186.37      | 5,949.42              | -611.25      | -261.89      | -267.75                 | 9.04                    | 8.47                   | -13.56                |
| 6,023.29              | 14.93           | 185.91      | 5,962.57              | -614.63      | -262.25      | -268.14                 | 6.46                    | 6.41                   | -3.39                 |
| 6,036.86              | 14.64           | 186.77      | 5,975.69              | -618.07      | -262.64      | -268.56                 | 2.68                    | -2.14                  | 6.34                  |
| 6,050.43              | 14.32           | 187.65      | 5,988.83              | -621.44      | -263.06      | -269.01                 | 2.86                    | -2.36                  | 6.48                  |
| 6,064.00              | 13.96           | 188.38      | 6,001.99              | -624.72      | -263.52      | -269.51                 | 2.96                    | -2.65                  | 5.38                  |
| 6,077.57              | 13.53           | 188.58      | 6,015.17              | -627.91      | -264.00      | -270.01                 | 3.19                    | -3.17                  | 1.47                  |
| 6,091.14              | 13.08           | 188.47      | 6,028.37              | -631.00      | -264.46      | -270.51                 | 3.32                    | -3.32                  | -0.81                 |
| 6,104.71              | 12.60           | 188.13      | 6,041.60              | -633.98      | -264.90      | -270.97                 | 3.58                    | -3.54                  | -2.51                 |
| 6,118.29              | 12.11           | 187.62      | 6,054.87              | -636.86      | -265.30      | -271.40                 | 3.70                    | -3.61                  | -3.76                 |
| 6,131.86              | 11.61           | 186.97      | 6,068.15              | -639.63      | -265.65      | -271.78                 | 3.81                    | -3.68                  | -4.79                 |
| 6,145.43              | 11.12           | 186.24      | 6,081.45              | -642.28      | -265.96      | -272.11                 | 3.76                    | -3.61                  | -5.38                 |
| 6,159.00              | 11.19           | 185.63      | 6,094.77              | -644.89      | -266.23      | -272.41                 | 1.01                    | 0.52                   | -4.50                 |
| 6,173.20              | 12.03           | 184.89      | 6,108.68              | -647.74      | -266.49      | -272.70                 | 6.01                    | 5.92                   | -5.21                 |
| 6,187.40              | 12.89           | 183.98      | 6,122.54              | -650.79      | -266.73      | -272.96                 | 6.21                    | 6.06                   | -6.41                 |
| 6,201.60              | 13.74           | 184.59      | 6,136.36              | -654.05      | -266.97      | -273.24                 | 6.07                    | 5.99                   | 4.30                  |
| 6,215.80              | 13.36           | 184.03      | 6,150.16              | -657.37      | -267.22      | -273.52                 | 2.83                    | -2.68                  | -3.94                 |
| 6,230.00              | 12.61           | 183.47      | 6,164.00              | -660.56      | -267.43      | -273.76                 | 5.36                    | -5.28                  | -3.94                 |
| 6,244.20              | 11.86           | 182.85      | 6,177.88              | -663.56      | -267.60      | -273.95                 | 5.36                    | -5.28                  | -4.37                 |
| 6,258.40              | 12.23           | 185.09      | 6,191.77              | -666.52      | -267.80      | -274.19                 | 4.20                    | 2.61                   | 15.77                 |
| 6,268.89              | 12.89           | 186.98      | 6,202.00              | -668.78      | -268.04      | -274.45                 | 7.44                    | 6.32                   | 18.07                 |
| 1st Bone Spring SD    |                 |             |                       |              |              |                         |                         |                        |                       |
| 6,272.60              | 13.13           | 187.61      | 6,205.62              | -669.61      | -268.15      | -274.57                 | 7.44                    | 6.40                   | 16.84                 |
| 6,286.80              | 12.47           | 187.27      | 6,219.47              | -672.73      | -268.56      | -275.00                 | 4.68                    | -4.65                  | -2.39                 |
| 6,301.00              | 11.89           | 186.98      | 6,233.35              | -675.70      | -268.93      | -275.40                 | 4.11                    | -4.08                  | -2.04                 |
| 6,314.43              | 11.51           | 186.92      | 6,246.50              | -678.41      | -269.26      | -275.76                 | 2.83                    | -2.83                  | -0.45                 |
| 6,327.86              | 11.22           | 186.94      | 6,259.66              | -681.04      | -269.58      | -276.10                 | 2.16                    | -2.16                  | 0.15                  |
| 6,341.29              | 10.99           | 187.00      | 6,272.84              | -683.60      | -269.89      | -276.44                 | 1.71                    | -1.71                  | 0.45                  |
| 6,354.71              | 10.78           | 187.07      | 6,286.02              | -686.12      | -270.20      | -276.78                 | 1.57                    | -1.56                  | 0.52                  |
| 6,368.14              | 10.58           | 187.12      | 6,299.22              | -688.59      | -270.51      | -277.11                 | 1.49                    | -1.49                  | 0.37                  |
| 6,370.97              | 10.63           | 187.41      | 6,302.00              | -689.10      | -270.58      | -277.18                 | 2.52                    | 1.70                   | 10.15                 |



## Survey Report

|                  |                                  |                                     |                                       |
|------------------|----------------------------------|-------------------------------------|---------------------------------------|
| <b>Company:</b>  | Colgate Energy                   | <b>Local Co-ordinate Reference:</b> | Well (A04) Toro 22 Fed State Com 122H |
| <b>Project:</b>  | Eddy County, NM (N83-NME)        | <b>TVD Reference:</b>               | 3422+30 @ 3452.00usft                 |
| <b>Site:</b>     | Toro 22 Fed State Com            | <b>MD Reference:</b>                | 3422+30 @ 3452.00usft                 |
| <b>Well:</b>     | (A04) Toro 22 Fed State Com 122H | <b>North Reference:</b>             | Grid                                  |
| <b>Wellbore:</b> | 122H                             | <b>Survey Calculation Method:</b>   | Minimum Curvature                     |
| <b>Design:</b>   | 122H                             | <b>Database:</b>                    | EDM 5000.14 Single User Db            |

| 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) |
| 2nd Bone Spring LM                          |                 |             |                       |              |              |                         |                         |                        |                       |
| 6,381.57                                    | 10.81           | 188.46      | 6,312.42              | -691.06      | -270.85      | -277.47                 | 2.52                    | 1.72                   | 9.93                  |
| 6,395.00                                    | 12.00           | 191.89      | 6,325.58              | -693.67      | -271.32      | -277.97                 | 10.20                   | 8.86                   | 25.54                 |
| 6,408.57                                    | 13.24           | 194.31      | 6,338.82              | -696.56      | -272.00      | -278.67                 | 9.93                    | 9.14                   | 17.83                 |
| 6,422.14                                    | 12.89           | 194.20      | 6,352.04              | -699.53      | -272.75      | -279.45                 | 2.59                    | -2.58                  | -0.81                 |
| 6,435.71                                    | 12.52           | 194.04      | 6,365.28              | -702.42      | -273.48      | -280.21                 | 2.74                    | -2.73                  | -1.18                 |
| 6,449.29                                    | 12.13           | 193.81      | 6,378.55              | -705.24      | -274.18      | -280.93                 | 2.89                    | -2.87                  | -1.69                 |
| 6,462.86                                    | 11.73           | 193.50      | 6,391.82              | -707.96      | -274.84      | -281.62                 | 2.99                    | -2.95                  | -2.28                 |
| 6,476.43                                    | 11.34           | 193.07      | 6,405.12              | -710.60      | -275.46      | -282.27                 | 2.94                    | -2.87                  | -3.17                 |
| 6,490.00                                    | 10.94           | 192.47      | 6,418.43              | -713.16      | -276.04      | -282.88                 | 3.07                    | -2.95                  | -4.42                 |
| 6,503.57                                    | 10.55           | 191.67      | 6,431.76              | -715.63      | -276.57      | -283.43                 | 3.08                    | -2.87                  | -5.90                 |
| 6,517.14                                    | 10.18           | 190.70      | 6,445.11              | -718.03      | -277.05      | -283.93                 | 3.01                    | -2.73                  | -7.15                 |
| 6,530.71                                    | 9.82            | 189.64      | 6,458.48              | -720.35      | -277.46      | -284.36                 | 2.98                    | -2.65                  | -7.81                 |
| 6,544.29                                    | 9.48            | 188.58      | 6,471.87              | -722.60      | -277.82      | -284.75                 | 2.82                    | -2.50                  | -7.81                 |
| 6,557.86                                    | 9.17            | 187.62      | 6,485.26              | -724.77      | -278.13      | -285.08                 | 2.56                    | -2.28                  | -7.07                 |
| 6,571.43                                    | 8.89            | 186.95      | 6,498.66              | -726.88      | -278.40      | -285.37                 | 2.20                    | -2.06                  | -4.94                 |
| 6,585.00                                    | 8.67            | 186.80      | 6,512.07              | -728.94      | -278.65      | -285.64                 | 1.63                    | -1.62                  | -1.11                 |
| 6,598.43                                    | 8.53            | 187.73      | 6,525.35              | -730.93      | -278.91      | -285.91                 | 1.47                    | -1.04                  | 6.92                  |
| 6,611.86                                    | 8.45            | 189.16      | 6,538.63              | -732.89      | -279.20      | -286.22                 | 1.68                    | -0.60                  | 10.65                 |
| 6,625.29                                    | 8.40            | 190.82      | 6,551.92              | -734.83      | -279.54      | -286.58                 | 1.85                    | -0.37                  | 12.36                 |
| 6,638.71                                    | 8.35            | 192.49      | 6,565.19              | -736.75      | -279.93      | -286.99                 | 1.85                    | -0.37                  | 12.44                 |
| 6,652.14                                    | 9.40            | 195.48      | 6,578.46              | -738.76      | -280.44      | -287.51                 | 8.54                    | 7.82                   | 22.26                 |
| 6,665.57                                    | 9.98            | 197.37      | 6,591.70              | -740.92      | -281.08      | -288.18                 | 4.93                    | 4.32                   | 14.07                 |
| 6,679.00                                    | 9.89            | 199.08      | 6,604.93              | -743.12      | -281.80      | -288.92                 | 2.30                    | -0.67                  | 12.73                 |
| 6,692.57                                    | 9.63            | 199.37      | 6,618.30              | -745.30      | -282.56      | -289.70                 | 1.95                    | -1.92                  | 2.14                  |
| 6,706.14                                    | 9.31            | 199.31      | 6,631.69              | -747.40      | -283.30      | -290.46                 | 2.36                    | -2.36                  | -0.44                 |
| 6,719.71                                    | 8.95            | 198.98      | 6,645.09              | -749.44      | -284.00      | -291.18                 | 2.68                    | -2.65                  | -2.43                 |
| 6,733.29                                    | 8.56            | 198.44      | 6,658.51              | -751.39      | -284.67      | -291.87                 | 2.93                    | -2.87                  | -3.98                 |
| 6,746.86                                    | 8.16            | 197.72      | 6,671.93              | -753.27      | -285.28      | -292.50                 | 3.05                    | -2.95                  | -5.31                 |
| 6,760.43                                    | 7.74            | 196.85      | 6,685.37              | -755.06      | -285.84      | -293.07                 | 3.22                    | -3.10                  | -6.41                 |
| 6,774.00                                    | 7.31            | 195.85      | 6,698.83              | -756.77      | -286.34      | -293.59                 | 3.31                    | -3.17                  | -7.37                 |
| 6,787.43                                    | 6.84            | 195.23      | 6,712.15              | -758.36      | -286.78      | -294.05                 | 3.55                    | -3.50                  | -4.62                 |
| 6,800.86                                    | 6.37            | 194.55      | 6,725.49              | -759.85      | -287.18      | -294.46                 | 3.55                    | -3.50                  | -5.06                 |
| 6,814.29                                    | 5.89            | 193.69      | 6,738.85              | -761.24      | -287.53      | -294.82                 | 3.64                    | -3.57                  | -6.40                 |
| 6,827.71                                    | 5.43            | 192.56      | 6,752.20              | -762.53      | -287.83      | -295.14                 | 3.53                    | -3.43                  | -8.42                 |
| 6,841.14                                    | 4.98            | 191.00      | 6,765.58              | -763.72      | -288.08      | -295.40                 | 3.51                    | -3.35                  | -11.62                |
| 6,854.57                                    | 4.57            | 188.77      | 6,778.96              | -764.83      | -288.27      | -295.60                 | 3.35                    | -3.05                  | -16.60                |
| 6,868.00                                    | 4.21            | 185.60      | 6,792.35              | -765.85      | -288.40      | -295.74                 | 3.23                    | -2.68                  | -23.60                |
| 6,876.00                                    | 4.16            | 179.33      | 6,800.33              | -766.43      | -288.43      | -295.77                 | 5.75                    | -0.59                  | -78.42                |
| KOP: 6876.00' MD, -295.77' VS, 6800.33' TVD |                 |             |                       |              |              |                         |                         |                        |                       |
| 6,881.57                                    | 4.16            | 174.91      | 6,805.88              | -766.83      | -288.41      | -295.75                 | 5.75                    | -0.05                  | -79.28                |
| 6,895.14                                    | 5.26            | 153.01      | 6,819.41              | -767.88      | -288.08      | -295.44                 | 15.39                   | 8.11                   | -161.39               |
| 6,908.71                                    | 6.76            | 136.23      | 6,832.91              | -769.01      | -287.25      | -294.61                 | 16.91                   | 11.05                  | -123.66               |



## Survey Report

|                  |                                  |                                     |                                       |
|------------------|----------------------------------|-------------------------------------|---------------------------------------|
| <b>Company:</b>  | Colgate Energy                   | <b>Local Co-ordinate Reference:</b> | Well (A04) Toro 22 Fed State Com 122H |
| <b>Project:</b>  | Eddy County, NM (N83-NME)        | <b>TVD Reference:</b>               | 3422+30 @ 3452.00usft                 |
| <b>Site:</b>     | Toro 22 Fed State Com            | <b>MD Reference:</b>                | 3422+30 @ 3452.00usft                 |
| <b>Well:</b>     | (A04) Toro 22 Fed State Com 122H | <b>North Reference:</b>             | Grid                                  |
| <b>Wellbore:</b> | 122H                             | <b>Survey Calculation Method:</b>   | Minimum Curvature                     |
| <b>Design:</b>   | 122H                             | <b>Database:</b>                    | EDM 5000.14 Single User Db            |

| 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) |  |
| 6,915.05                  | 7.71            | 132.33      | 6,839.20              | -769.56      | -286.67      | -294.05                 | 16.87                   | 15.00                  | -61.48                |  |
| <b>00-EON(Toro-122H)</b>  |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 6,922.29                  | 8.83            | 128.92      | 6,846.36              | -770.24      | -285.88      | -293.26                 | 16.87                   | 15.46                  | -47.13                |  |
| 6,935.86                  | 10.60           | 126.18      | 6,859.73              | -771.63      | -284.06      | -291.46                 | 13.48                   | 13.04                  | -20.19                |  |
| 6,949.43                  | 12.55           | 124.19      | 6,873.03              | -773.20      | -281.84      | -289.25                 | 14.67                   | 14.37                  | -14.66                |  |
| 6,963.00                  | 14.56           | 122.30      | 6,886.22              | -774.94      | -279.18      | -286.60                 | 15.17                   | 14.81                  | -13.93                |  |
| 6,976.43                  | 16.44           | 120.61      | 6,899.16              | -776.81      | -276.11      | -283.56                 | 14.40                   | 14.00                  | -12.58                |  |
| 6,989.86                  | 18.24           | 119.31      | 6,911.98              | -778.80      | -272.64      | -280.11                 | 13.71                   | 13.40                  | -9.68                 |  |
| 7,003.29                  | 20.04           | 118.69      | 6,924.67              | -780.94      | -268.79      | -276.28                 | 13.49                   | 13.40                  | -4.62                 |  |
| 7,016.71                  | 21.67           | 117.53      | 6,937.21              | -783.19      | -264.58      | -272.08                 | 12.53                   | 12.15                  | -8.64                 |  |
| 7,030.14                  | 23.11           | 116.86      | 6,949.62              | -785.52      | -260.03      | -267.56                 | 10.89                   | 10.72                  | -4.99                 |  |
| 7,043.57                  | 24.64           | 117.39      | 6,961.90              | -788.00      | -255.19      | -262.74                 | 11.50                   | 11.39                  | 3.95                  |  |
| 7,057.00                  | 26.17           | 117.12      | 6,974.04              | -790.64      | -250.07      | -257.65                 | 11.42                   | 11.39                  | -2.01                 |  |
| 7,070.57                  | 27.58           | 115.87      | 6,986.14              | -793.37      | -244.58      | -252.18                 | 11.19                   | 10.39                  | -9.21                 |  |
| 7,084.14                  | 28.89           | 114.49      | 6,998.09              | -796.10      | -238.77      | -246.40                 | 10.79                   | 9.65                   | -10.17                |  |
| 7,097.71                  | 30.39           | 113.95      | 7,009.89              | -798.86      | -232.65      | -240.31                 | 11.23                   | 11.05                  | -3.98                 |  |
| 7,111.29                  | 31.91           | 113.40      | 7,021.51              | -801.68      | -226.21      | -233.90                 | 11.39                   | 11.19                  | -4.05                 |  |
| 7,124.86                  | 33.25           | 113.17      | 7,032.94              | -804.56      | -219.50      | -227.22                 | 9.92                    | 9.87                   | -1.69                 |  |
| 7,138.43                  | 34.63           | 112.93      | 7,044.20              | -807.53      | -212.53      | -220.27                 | 10.22                   | 10.17                  | -1.77                 |  |
| 7,152.00                  | 36.12           | 112.19      | 7,055.27              | -810.54      | -205.28      | -213.05                 | 11.42                   | 10.98                  | -5.45                 |  |
| 7,165.57                  | 36.68           | 111.55      | 7,066.19              | -813.54      | -197.80      | -205.60                 | 4.99                    | 4.13                   | -4.72                 |  |
| 7,179.14                  | 36.84           | 111.08      | 7,077.06              | -816.50      | -190.24      | -198.07                 | 2.38                    | 1.18                   | -3.46                 |  |
| 7,192.71                  | 37.02           | 110.61      | 7,087.91              | -819.40      | -182.62      | -190.47                 | 2.47                    | 1.33                   | -3.46                 |  |
| 7,206.29                  | 37.19           | 110.16      | 7,098.74              | -822.25      | -174.94      | -182.82                 | 2.36                    | 1.25                   | -3.31                 |  |
| 7,219.86                  | 37.89           | 108.96      | 7,109.50              | -825.02      | -167.15      | -175.06                 | 7.46                    | 5.16                   | -8.84                 |  |
| 7,233.43                  | 39.15           | 107.87      | 7,120.12              | -827.69      | -159.13      | -167.07                 | 10.55                   | 9.29                   | -8.03                 |  |
| 7,247.00                  | 40.65           | 107.13      | 7,130.53              | -830.30      | -150.83      | -158.79                 | 11.59                   | 11.05                  | -5.45                 |  |
| 7,260.57                  | 41.92           | 105.66      | 7,140.72              | -832.83      | -142.24      | -150.23                 | 11.78                   | 9.36                   | -10.83                |  |
| 7,274.14                  | 43.02           | 103.86      | 7,150.73              | -835.16      | -133.38      | -141.39                 | 12.08                   | 8.11                   | -13.26                |  |
| 7,287.71                  | 44.40           | 102.57      | 7,160.54              | -837.30      | -124.25      | -132.28                 | 12.11                   | 10.17                  | -9.51                 |  |
| 7,301.29                  | 45.90           | 101.75      | 7,170.12              | -839.33      | -114.84      | -122.89                 | 11.85                   | 11.05                  | -6.04                 |  |
| <b>01-FTP(Toro-122H)</b>  |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 7,314.86                  | 46.54           | 100.01      | 7,179.51              | -841.18      | -105.22      | -113.29                 | 10.39                   | 4.72                   | -12.82                |  |
| 7,328.43                  | 47.38           | 98.19       | 7,188.77              | -842.75      | -95.43       | -103.51                 | 11.59                   | 6.19                   | -13.41                |  |
| 7,342.00                  | 48.38           | 96.44       | 7,197.87              | -844.03      | -85.44       | -93.54                  | 12.07                   | 7.37                   | -12.90                |  |
| 7,355.43                  | 48.46           | 95.46       | 7,206.79              | -845.07      | -75.45       | -83.56                  | 5.49                    | 0.60                   | -7.30                 |  |
| 7,368.86                  | 48.11           | 95.25       | 7,215.72              | -846.00      | -65.47       | -73.59                  | 2.86                    | -2.61                  | -1.56                 |  |
| 7,382.29                  | 47.76           | 95.03       | 7,224.72              | -846.90      | -55.54       | -63.67                  | 2.88                    | -2.61                  | -1.64                 |  |
| 7,395.71                  | 47.48           | 94.82       | 7,233.77              | -847.75      | -45.66       | -53.80                  | 2.39                    | -2.09                  | -1.56                 |  |
| 7,409.14                  | 47.98           | 94.80       | 7,242.80              | -848.58      | -35.76       | -43.90                  | 3.72                    | 3.72                   | -0.15                 |  |
| 7,422.57                  | 49.49           | 94.91       | 7,251.66              | -849.43      | -25.70       | -33.85                  | 11.26                   | 11.24                  | 0.82                  |  |
| 7,430.90                  | 50.67           | 94.77       | 7,257.00              | -849.97      | -19.34       | -27.50                  | 14.21                   | 14.15                  | -1.73                 |  |
| <b>2nd Bone Spring SD</b> |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 7,436.00                  | 51.39           | 94.68       | 7,260.21              | -850.30      | -15.38       | -23.55                  | 14.21                   | 14.15                  | -1.68                 |  |



## Survey Report

|                  |                                  |                                     |                                       |
|------------------|----------------------------------|-------------------------------------|---------------------------------------|
| <b>Company:</b>  | Colgate Energy                   | <b>Local Co-ordinate Reference:</b> | Well (A04) Toro 22 Fed State Com 122H |
| <b>Project:</b>  | Eddy County, NM (N83-NME)        | <b>TVD Reference:</b>               | 3422+30 @ 3452.00usft                 |
| <b>Site:</b>     | Toro 22 Fed State Com            | <b>MD Reference:</b>                | 3422+30 @ 3452.00usft                 |
| <b>Well:</b>     | (A04) Toro 22 Fed State Com 122H | <b>North Reference:</b>             | Grid                                  |
| <b>Wellbore:</b> | 122H                             | <b>Survey Calculation Method:</b>   | Minimum Curvature                     |
| <b>Design:</b>   | 122H                             | <b>Database:</b>                    | EDM 5000.14 Single User Db            |

| 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) |  |
| 7,449.57                                   | 53.26           | 94.77       | 7,268.50              | -851.18      | -4.68        | -12.85                  | 13.79                   | 13.78                  | 0.66                  |  |
| 7,463.14                                   | 55.23           | 94.77       | 7,276.43              | -852.10      | 6.29         | -1.89                   | 14.52                   | 14.52                  | 0.00                  |  |
| 7,476.71                                   | 57.22           | 94.76       | 7,283.97              | -853.04      | 17.53        | 9.34                    | 14.66                   | 14.66                  | -0.07                 |  |
| 7,490.29                                   | 59.16           | 94.60       | 7,291.13              | -853.98      | 29.03        | 20.84                   | 14.32                   | 14.29                  | -1.18                 |  |
| 7,503.86                                   | 61.13           | 94.48       | 7,297.89              | -854.91      | 40.77        | 32.56                   | 14.54                   | 14.52                  | -0.88                 |  |
| 7,517.43                                   | 63.10           | 94.67       | 7,304.23              | -855.87      | 52.72        | 44.50                   | 14.57                   | 14.52                  | 1.40                  |  |
| 7,531.00                                   | 65.00           | 95.03       | 7,310.17              | -856.90      | 64.88        | 56.65                   | 14.20                   | 14.00                  | 2.65                  |  |
| 7,544.43                                   | 66.92           | 94.61       | 7,315.64              | -857.93      | 77.10        | 68.86                   | 14.58                   | 14.30                  | -3.13                 |  |
| 7,557.86                                   | 68.76           | 94.20       | 7,320.71              | -858.88      | 89.50        | 81.25                   | 13.99                   | 13.70                  | -3.05                 |  |
| 7,571.29                                   | 70.73           | 94.43       | 7,325.36              | -859.83      | 102.06       | 93.81                   | 14.76                   | 14.67                  | 1.71                  |  |
| 7,584.71                                   | 72.75           | 94.49       | 7,329.56              | -860.82      | 114.77       | 106.50                  | 15.06                   | 15.05                  | 0.45                  |  |
| 7,598.14                                   | 74.72           | 94.71       | 7,333.32              | -861.86      | 127.62       | 119.34                  | 14.75                   | 14.67                  | 1.64                  |  |
| 7,611.57                                   | 76.73           | 95.18       | 7,336.63              | -862.98      | 140.59       | 132.30                  | 15.35                   | 14.97                  | 3.50                  |  |
| 7,625.00                                   | 78.63           | 96.15       | 7,339.50              | -864.28      | 153.64       | 145.34                  | 15.81                   | 14.15                  | 7.22                  |  |
| 7,638.57                                   | 80.24           | 97.51       | 7,341.99              | -865.86      | 166.89       | 158.57                  | 15.42                   | 11.86                  | 10.02                 |  |
| 7,652.14                                   | 82.11           | 98.13       | 7,344.07              | -867.69      | 180.17       | 171.83                  | 14.50                   | 13.78                  | 4.57                  |  |
| 7,665.71                                   | 84.17           | 97.39       | 7,345.69              | -869.51      | 193.52       | 185.16                  | 16.12                   | 15.18                  | -5.45                 |  |
| 7,679.29                                   | 86.14           | 96.57       | 7,346.84              | -871.15      | 206.95       | 198.58                  | 15.70                   | 14.51                  | -6.04                 |  |
| 7,692.86                                   | 87.83           | 95.13       | 7,347.55              | -872.53      | 220.43       | 212.04                  | 16.35                   | 12.45                  | -10.61                |  |
| 7,706.43                                   | 89.39           | 93.34       | 7,347.88              | -873.53      | 233.96       | 225.56                  | 17.49                   | 11.50                  | -13.19                |  |
| 7,720.00                                   | 90.87           | 91.49       | 7,347.85              | -874.10      | 247.51       | 239.11                  | 17.46                   | 10.91                  | -13.63                |  |
| 7,733.43                                   | 91.48           | 90.52       | 7,347.57              | -874.34      | 260.94       | 252.53                  | 8.53                    | 4.54                   | -7.22                 |  |
| 7,746.86                                   | 91.50           | 90.64       | 7,347.23              | -874.48      | 274.36       | 265.96                  | 0.91                    | 0.15                   | 0.89                  |  |
| 7,760.29                                   | 91.52           | 90.77       | 7,346.87              | -874.64      | 287.79       | 279.38                  | 0.98                    | 0.15                   | 0.97                  |  |
| 7,773.71                                   | 91.55           | 90.90       | 7,346.51              | -874.84      | 301.20       | 292.79                  | 0.99                    | 0.22                   | 0.97                  |  |
| 7,778.00                                   | 91.57           | 90.94       | 7,346.40              | -874.90      | 305.49       | 297.08                  | 1.04                    | 0.37                   | 0.97                  |  |
| EOC: 7778.00' MD, 297.08' VS, 7346.40' TVD |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 7,787.14                                   | 91.60           | 91.03       | 7,346.14              | -875.06      | 314.62       | 306.21                  | 1.04                    | 0.37                   | 0.97                  |  |
| 7,800.57                                   | 91.67           | 91.14       | 7,345.76              | -875.32      | 328.05       | 319.63                  | 0.97                    | 0.52                   | 0.82                  |  |
| 7,814.00                                   | 91.74           | 91.22       | 7,345.36              | -875.59      | 341.47       | 333.05                  | 0.79                    | 0.52                   | 0.60                  |  |
| 7,827.57                                   | 91.79           | 91.23       | 7,344.94              | -875.88      | 355.03       | 346.60                  | 0.38                    | 0.37                   | 0.07                  |  |
| 7,841.14                                   | 91.83           | 91.20       | 7,344.51              | -876.17      | 368.59       | 360.16                  | 0.37                    | 0.29                   | -0.22                 |  |
| 7,854.71                                   | 91.88           | 91.15       | 7,344.07              | -876.45      | 382.15       | 373.72                  | 0.52                    | 0.37                   | -0.37                 |  |
| 7,868.29                                   | 91.86           | 91.08       | 7,343.63              | -876.71      | 395.72       | 387.28                  | 0.54                    | -0.15                  | -0.52                 |  |
| 7,881.86                                   | 91.78           | 91.00       | 7,343.20              | -876.96      | 409.28       | 400.84                  | 0.83                    | -0.59                  | -0.59                 |  |
| 7,895.43                                   | 91.61           | 90.91       | 7,342.80              | -877.18      | 422.84       | 414.40                  | 1.42                    | -1.25                  | -0.66                 |  |
| 7,909.00                                   | 90.01           | 90.63       | 7,342.61              | -877.37      | 436.41       | 427.97                  | 11.97                   | -11.79                 | -2.06                 |  |
| 7,922.43                                   | 89.51           | 90.49       | 7,342.66              | -877.50      | 449.84       | 441.39                  | 3.87                    | -3.72                  | -1.04                 |  |
| 7,935.86                                   | 89.38           | 90.40       | 7,342.79              | -877.60      | 463.27       | 454.82                  | 1.18                    | -0.97                  | -0.67                 |  |
| 7,949.29                                   | 89.25           | 90.30       | 7,342.95              | -877.68      | 476.70       | 468.25                  | 1.22                    | -0.97                  | -0.74                 |  |
| 7,962.71                                   | 89.12           | 90.20       | 7,343.14              | -877.74      | 490.11       | 481.67                  | 1.22                    | -0.97                  | -0.75                 |  |
| 7,976.14                                   | 89.01           | 90.12       | 7,343.36              | -877.78      | 503.54       | 495.09                  | 1.01                    | -0.82                  | -0.60                 |  |
| 7,989.57                                   | 88.90           | 90.04       | 7,343.61              | -877.80      | 516.97       | 508.52                  | 1.01                    | -0.82                  | -0.60                 |  |
| 8,003.00                                   | 88.80           | 89.98       | 7,343.88              | -877.80      | 530.40       | 521.95                  | 0.87                    | -0.74                  | -0.45                 |  |



## Survey Report

|                  |                                  |                                     |                                       |
|------------------|----------------------------------|-------------------------------------|---------------------------------------|
| <b>Company:</b>  | Colgate Energy                   | <b>Local Co-ordinate Reference:</b> | Well (A04) Toro 22 Fed State Com 122H |
| <b>Project:</b>  | Eddy County, NM (N83-NME)        | <b>TVD Reference:</b>               | 3422+30 @ 3452.00usft                 |
| <b>Site:</b>     | Toro 22 Fed State Com            | <b>MD Reference:</b>                | 3422+30 @ 3452.00usft                 |
| <b>Well:</b>     | (A04) Toro 22 Fed State Com 122H | <b>North Reference:</b>             | Grid                                  |
| <b>Wellbore:</b> | 122H                             | <b>Survey Calculation Method:</b>   | Minimum Curvature                     |
| <b>Design:</b>   | 122H                             | <b>Database:</b>                    | EDM 5000.14 Single User Db            |

| 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) |
| 8,016.57              | 88.72           | 89.96       | 7,344.17              | -877.79      | 543.96       | 535.51                  | 0.61                    | -0.59                  | -0.15                 |
| 8,030.14              | 88.63           | 89.95       | 7,344.49              | -877.78      | 557.53       | 549.08                  | 0.67                    | -0.66                  | -0.07                 |
| 8,043.71              | 88.54           | 89.96       | 7,344.82              | -877.77      | 571.10       | 562.64                  | 0.67                    | -0.66                  | 0.07                  |
| 8,057.29              | 88.46           | 89.97       | 7,345.18              | -877.77      | 584.67       | 576.22                  | 0.59                    | -0.59                  | 0.07                  |
| 8,070.86              | 88.40           | 89.98       | 7,345.55              | -877.76      | 598.24       | 589.78                  | 0.45                    | -0.44                  | 0.07                  |
| 8,084.43              | 88.38           | 89.98       | 7,345.93              | -877.75      | 611.80       | 603.35                  | 0.15                    | -0.15                  | 0.00                  |
| 8,098.00              | 88.36           | 89.98       | 7,346.32              | -877.75      | 625.37       | 616.91                  | 0.15                    | -0.15                  | 0.00                  |
| 8,111.57              | 88.31           | 89.95       | 7,346.71              | -877.74      | 638.93       | 630.48                  | 0.43                    | -0.37                  | -0.22                 |
| 8,125.14              | 88.26           | 89.91       | 7,347.12              | -877.72      | 652.49       | 644.04                  | 0.47                    | -0.37                  | -0.29                 |
| 8,138.71              | 88.21           | 89.86       | 7,347.53              | -877.70      | 666.06       | 657.60                  | 0.52                    | -0.37                  | -0.37                 |
| 8,152.29              | 88.16           | 89.81       | 7,347.96              | -877.66      | 679.63       | 671.17                  | 0.52                    | -0.37                  | -0.37                 |
| 8,165.86              | 88.13           | 89.76       | 7,348.40              | -877.61      | 693.19       | 684.74                  | 0.43                    | -0.22                  | -0.37                 |
| 8,179.43              | 88.11           | 89.70       | 7,348.85              | -877.54      | 706.76       | 698.30                  | 0.47                    | -0.15                  | -0.44                 |
| 8,193.00              | 88.10           | 89.65       | 7,349.30              | -877.47      | 720.32       | 711.86                  | 0.38                    | -0.07                  | -0.37                 |
| 8,206.43              | 88.09           | 89.60       | 7,349.74              | -877.38      | 733.74       | 725.28                  | 0.38                    | -0.07                  | -0.37                 |
| 8,219.86              | 88.06           | 89.56       | 7,350.19              | -877.28      | 747.16       | 738.71                  | 0.37                    | -0.22                  | -0.30                 |
| 8,233.29              | 88.00           | 89.52       | 7,350.66              | -877.17      | 760.58       | 752.13                  | 0.54                    | -0.45                  | -0.30                 |
| 8,246.71              | 87.94           | 89.48       | 7,351.13              | -877.06      | 774.00       | 765.54                  | 0.54                    | -0.45                  | -0.30                 |
| 8,260.14              | 87.89           | 89.44       | 7,351.62              | -876.93      | 787.42       | 778.96                  | 0.48                    | -0.37                  | -0.30                 |
| 8,273.57              | 87.85           | 89.41       | 7,352.12              | -876.79      | 800.84       | 792.38                  | 0.37                    | -0.30                  | -0.22                 |
| 8,287.00              | 87.84           | 89.38       | 7,352.62              | -876.65      | 814.26       | 805.80                  | 0.24                    | -0.07                  | -0.22                 |
| 8,300.43              | 87.81           | 89.36       | 7,353.13              | -876.51      | 827.68       | 819.22                  | 0.27                    | -0.22                  | -0.15                 |
| 8,313.86              | 87.76           | 89.34       | 7,353.65              | -876.35      | 841.09       | 832.64                  | 0.40                    | -0.37                  | -0.15                 |
| 8,327.29              | 87.71           | 89.33       | 7,354.18              | -876.20      | 854.51       | 846.06                  | 0.38                    | -0.37                  | -0.07                 |
| 8,340.71              | 87.67           | 89.32       | 7,354.72              | -876.04      | 867.92       | 859.47                  | 0.31                    | -0.30                  | -0.07                 |
| 8,354.14              | 87.62           | 89.30       | 7,355.28              | -875.88      | 881.34       | 872.89                  | 0.40                    | -0.37                  | -0.15                 |
| 8,367.57              | 87.58           | 89.30       | 7,355.84              | -875.71      | 894.76       | 886.31                  | 0.30                    | -0.30                  | 0.00                  |
| 8,381.00              | 87.53           | 89.29       | 7,356.41              | -875.55      | 908.17       | 899.73                  | 0.38                    | -0.37                  | -0.07                 |
| 8,394.57              | 87.49           | 89.28       | 7,357.00              | -875.38      | 921.73       | 913.28                  | 0.30                    | -0.29                  | -0.07                 |
| 8,408.14              | 87.44           | 89.27       | 7,357.60              | -875.21      | 935.28       | 926.84                  | 0.38                    | -0.37                  | -0.07                 |
| 8,421.71              | 87.40           | 89.27       | 7,358.21              | -875.04      | 948.84       | 940.40                  | 0.29                    | -0.29                  | 0.00                  |
| 8,435.29              | 87.36           | 89.27       | 7,358.83              | -874.86      | 962.40       | 953.96                  | 0.29                    | -0.29                  | 0.00                  |
| 8,448.86              | 87.32           | 89.27       | 7,359.46              | -874.69      | 975.96       | 967.52                  | 0.29                    | -0.29                  | 0.00                  |
| 8,462.43              | 87.28           | 89.28       | 7,360.10              | -874.52      | 989.51       | 981.07                  | 0.30                    | -0.29                  | 0.07                  |
| 8,476.00              | 87.26           | 89.29       | 7,360.75              | -874.35      | 1,003.07     | 994.63                  | 0.16                    | -0.15                  | 0.07                  |
| 8,489.57              | 87.22           | 89.32       | 7,361.40              | -874.18      | 1,016.62     | 1,008.18                | 0.37                    | -0.29                  | 0.22                  |
| 8,503.14              | 87.17           | 89.35       | 7,362.07              | -874.03      | 1,030.17     | 1,021.73                | 0.43                    | -0.37                  | 0.22                  |
| 8,516.71              | 87.11           | 89.38       | 7,362.74              | -873.88      | 1,043.72     | 1,035.29                | 0.49                    | -0.44                  | 0.22                  |
| 8,530.29              | 87.03           | 89.41       | 7,363.44              | -873.73      | 1,057.29     | 1,048.85                | 0.63                    | -0.59                  | 0.22                  |
| 8,543.86              | 86.94           | 89.44       | 7,364.15              | -873.60      | 1,070.84     | 1,062.40                | 0.70                    | -0.66                  | 0.22                  |
| 8,557.43              | 86.85           | 89.46       | 7,364.89              | -873.47      | 1,084.39     | 1,075.95                | 0.68                    | -0.66                  | 0.15                  |
| 8,571.00              | 86.73           | 89.47       | 7,365.65              | -873.34      | 1,097.93     | 1,089.50                | 0.89                    | -0.88                  | 0.07                  |
| 8,584.43              | 86.63           | 89.46       | 7,366.42              | -873.22      | 1,111.34     | 1,102.91                | 0.75                    | -0.74                  | -0.07                 |



## Survey Report

|                  |                                  |                                     |                                       |
|------------------|----------------------------------|-------------------------------------|---------------------------------------|
| <b>Company:</b>  | Colgate Energy                   | <b>Local Co-ordinate Reference:</b> | Well (A04) Toro 22 Fed State Com 122H |
| <b>Project:</b>  | Eddy County, NM (N83-NME)        | <b>TVD Reference:</b>               | 3422+30 @ 3452.00usft                 |
| <b>Site:</b>     | Toro 22 Fed State Com            | <b>MD Reference:</b>                | 3422+30 @ 3452.00usft                 |
| <b>Well:</b>     | (A04) Toro 22 Fed State Com 122H | <b>North Reference:</b>             | Grid                                  |
| <b>Wellbore:</b> | 122H                             | <b>Survey Calculation Method:</b>   | Minimum Curvature                     |
| <b>Design:</b>   | 122H                             | <b>Database:</b>                    | EDM 5000.14 Single User Db            |

| 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) |  |
| 8,597.86              | 86.52           | 89.44       | 7,367.23              | -873.09      | 1,124.75     | 1,116.31                | 0.83                    | -0.82                  | -0.15                 |  |
| 8,611.29              | 86.41           | 89.40       | 7,368.05              | -872.95      | 1,138.15     | 1,129.72                | 0.87                    | -0.82                  | -0.30                 |  |
| 8,624.71              | 86.30           | 89.36       | 7,368.91              | -872.81      | 1,151.54     | 1,143.11                | 0.87                    | -0.82                  | -0.30                 |  |
| 8,638.14              | 86.18           | 89.32       | 7,369.79              | -872.65      | 1,164.94     | 1,156.51                | 0.94                    | -0.89                  | -0.30                 |  |
| 8,651.57              | 86.09           | 89.27       | 7,370.69              | -872.49      | 1,178.34     | 1,169.91                | 0.77                    | -0.67                  | -0.37                 |  |
| 8,665.00              | 86.02           | 89.22       | 7,371.62              | -872.31      | 1,191.74     | 1,183.31                | 0.64                    | -0.52                  | -0.37                 |  |
| 8,678.57              | 86.01           | 89.16       | 7,372.56              | -872.12      | 1,205.27     | 1,196.85                | 0.45                    | -0.07                  | -0.44                 |  |
| 8,692.14              | 86.02           | 89.10       | 7,373.50              | -871.91      | 1,218.81     | 1,210.38                | 0.45                    | 0.07                   | -0.44                 |  |
| 8,705.71              | 86.06           | 89.03       | 7,374.44              | -871.69      | 1,232.35     | 1,223.92                | 0.59                    | 0.29                   | -0.52                 |  |
| 8,719.29              | 86.14           | 88.97       | 7,375.36              | -871.46      | 1,245.89     | 1,237.47                | 0.74                    | 0.59                   | -0.44                 |  |
| 8,732.86              | 86.26           | 88.91       | 7,376.26              | -871.21      | 1,259.43     | 1,251.01                | 0.99                    | 0.88                   | -0.44                 |  |
| 8,746.43              | 86.75           | 88.46       | 7,377.09              | -870.90      | 1,272.97     | 1,264.55                | 4.90                    | 3.61                   | -3.32                 |  |
| 8,760.00              | 87.51           | 87.72       | 7,377.77              | -870.44      | 1,286.52     | 1,278.10                | 7.81                    | 5.60                   | -5.45                 |  |
| 8,773.57              | 87.62           | 87.68       | 7,378.35              | -869.90      | 1,300.06     | 1,291.65                | 0.86                    | 0.81                   | -0.29                 |  |
| 8,787.14              | 87.66           | 87.64       | 7,378.91              | -869.35      | 1,313.61     | 1,305.20                | 0.42                    | 0.29                   | -0.29                 |  |
| 8,800.71              | 87.62           | 87.62       | 7,379.46              | -868.79      | 1,327.16     | 1,318.76                | 0.33                    | -0.29                  | -0.15                 |  |
| 8,814.29              | 87.53           | 87.60       | 7,380.04              | -868.22      | 1,340.71     | 1,332.32                | 0.68                    | -0.66                  | -0.15                 |  |
| 8,827.86              | 87.40           | 87.61       | 7,380.64              | -867.65      | 1,354.26     | 1,345.87                | 0.96                    | -0.96                  | 0.07                  |  |
| 8,841.43              | 87.25           | 87.65       | 7,381.27              | -867.09      | 1,367.80     | 1,359.41                | 1.14                    | -1.11                  | 0.29                  |  |
| 8,855.00              | 87.09           | 87.72       | 7,381.94              | -866.55      | 1,381.34     | 1,372.96                | 1.29                    | -1.18                  | 0.52                  |  |
| 8,868.57              | 86.96           | 87.87       | 7,382.65              | -866.02      | 1,394.89     | 1,386.51                | 1.46                    | -0.96                  | 1.11                  |  |
| 8,882.14              | 86.89           | 88.05       | 7,383.37              | -865.54      | 1,408.43     | 1,400.05                | 1.42                    | -0.52                  | 1.33                  |  |
| 8,895.71              | 86.89           | 88.25       | 7,384.11              | -865.10      | 1,421.97     | 1,413.60                | 1.47                    | 0.00                   | 1.47                  |  |
| 8,909.29              | 86.91           | 88.45       | 7,384.85              | -864.71      | 1,435.52     | 1,427.16                | 1.48                    | 0.15                   | 1.47                  |  |
| 8,922.86              | 86.96           | 88.62       | 7,385.57              | -864.37      | 1,449.07     | 1,440.71                | 1.30                    | 0.37                   | 1.25                  |  |
| 8,936.43              | 88.52           | 88.61       | 7,386.11              | -864.04      | 1,462.63     | 1,454.26                | 11.50                   | 11.50                  | -0.07                 |  |
| 8,950.00              | 90.05           | 88.82       | 7,386.28              | -863.74      | 1,476.19     | 1,467.83                | 11.38                   | 11.27                  | 1.55                  |  |
| 8,963.43              | 90.06           | 88.85       | 7,386.26              | -863.46      | 1,489.62     | 1,481.26                | 0.24                    | 0.07                   | 0.22                  |  |
| 8,976.86              | 90.06           | 88.86       | 7,386.25              | -863.19      | 1,503.05     | 1,494.69                | 0.07                    | 0.00                   | 0.07                  |  |
| 8,990.29              | 90.05           | 88.85       | 7,386.24              | -862.93      | 1,516.47     | 1,508.12                | 0.11                    | -0.07                  | -0.07                 |  |
| 9,003.71              | 90.04           | 88.82       | 7,386.22              | -862.65      | 1,529.89     | 1,521.54                | 0.24                    | -0.07                  | -0.22                 |  |
| 9,017.14              | 90.03           | 88.79       | 7,386.22              | -862.37      | 1,543.32     | 1,534.97                | 0.24                    | -0.07                  | -0.22                 |  |
| 9,030.57              | 90.03           | 88.75       | 7,386.21              | -862.08      | 1,556.74     | 1,548.40                | 0.30                    | 0.00                   | -0.30                 |  |
| 9,044.00              | 90.02           | 88.72       | 7,386.20              | -861.79      | 1,570.17     | 1,561.83                | 0.24                    | -0.07                  | -0.22                 |  |
| 9,057.57              | 90.03           | 88.68       | 7,386.20              | -861.48      | 1,583.74     | 1,575.39                | 0.30                    | 0.07                   | -0.29                 |  |
| 9,071.14              | 90.05           | 88.64       | 7,386.19              | -861.16      | 1,597.30     | 1,588.96                | 0.33                    | 0.15                   | -0.29                 |  |
| 9,084.71              | 90.03           | 88.60       | 7,386.18              | -860.84      | 1,610.87     | 1,602.53                | 0.33                    | -0.15                  | -0.29                 |  |
| 9,098.29              | 89.99           | 88.56       | 7,386.18              | -860.50      | 1,624.45     | 1,616.11                | 0.42                    | -0.29                  | -0.29                 |  |
| 9,111.86              | 89.91           | 88.51       | 7,386.19              | -860.15      | 1,638.01     | 1,629.68                | 0.70                    | -0.59                  | -0.37                 |  |
| 9,125.43              | 89.83           | 88.46       | 7,386.22              | -859.79      | 1,651.58     | 1,643.25                | 0.70                    | -0.59                  | -0.37                 |  |
| 9,139.00              | 89.76           | 88.39       | 7,386.27              | -859.42      | 1,665.14     | 1,656.81                | 0.73                    | -0.52                  | -0.52                 |  |
| 9,152.57              | 89.70           | 88.30       | 7,386.33              | -859.03      | 1,678.71     | 1,670.38                | 0.80                    | -0.44                  | -0.66                 |  |
| 9,166.14              | 89.65           | 88.20       | 7,386.41              | -858.61      | 1,692.27     | 1,683.95                | 0.82                    | -0.37                  | -0.74                 |  |



## Survey Report

|                  |                                  |                                     |                                       |
|------------------|----------------------------------|-------------------------------------|---------------------------------------|
| <b>Company:</b>  | Colgate Energy                   | <b>Local Co-ordinate Reference:</b> | Well (A04) Toro 22 Fed State Com 122H |
| <b>Project:</b>  | Eddy County, NM (N83-NME)        | <b>TVD Reference:</b>               | 3422+30 @ 3452.00usft                 |
| <b>Site:</b>     | Toro 22 Fed State Com            | <b>MD Reference:</b>                | 3422+30 @ 3452.00usft                 |
| <b>Well:</b>     | (A04) Toro 22 Fed State Com 122H | <b>North Reference:</b>             | Grid                                  |
| <b>Wellbore:</b> | 122H                             | <b>Survey Calculation Method:</b>   | Minimum Curvature                     |
| <b>Design:</b>   | 122H                             | <b>Database:</b>                    | EDM 5000.14 Single User Db            |

| 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) |
| 9,179.71              | 89.61           | 88.09       | 7,386.50              | -858.17      | 1,705.83     | 1,697.51                | 0.86                    | -0.29                  | -0.81                 |
| 9,193.29              | 89.58           | 87.98       | 7,386.59              | -857.71      | 1,719.40     | 1,711.09                | 0.84                    | -0.22                  | -0.81                 |
| 9,206.86              | 89.56           | 87.88       | 7,386.69              | -857.22      | 1,732.96     | 1,724.66                | 0.75                    | -0.15                  | -0.74                 |
| 9,220.43              | 89.53           | 87.78       | 7,386.80              | -856.71      | 1,746.52     | 1,738.22                | 0.77                    | -0.22                  | -0.74                 |
| 9,234.00              | 89.47           | 87.71       | 7,386.92              | -856.17      | 1,760.08     | 1,751.78                | 0.68                    | -0.44                  | -0.52                 |
| 9,247.43              | 89.41           | 87.66       | 7,387.05              | -855.63      | 1,773.50     | 1,765.21                | 0.58                    | -0.45                  | -0.37                 |
| 9,260.86              | 89.35           | 87.63       | 7,387.20              | -855.08      | 1,786.92     | 1,778.63                | 0.50                    | -0.45                  | -0.22                 |
| 9,274.29              | 89.30           | 87.62       | 7,387.36              | -854.52      | 1,800.34     | 1,792.05                | 0.38                    | -0.37                  | -0.07                 |
| 9,287.71              | 89.26           | 87.60       | 7,387.52              | -853.96      | 1,813.74     | 1,805.46                | 0.33                    | -0.30                  | -0.15                 |
| 9,301.14              | 89.22           | 87.58       | 7,387.70              | -853.40      | 1,827.16     | 1,818.88                | 0.33                    | -0.30                  | -0.15                 |
| 9,314.57              | 89.19           | 87.54       | 7,387.89              | -852.82      | 1,840.58     | 1,832.31                | 0.37                    | -0.22                  | -0.30                 |
| 9,328.00              | 89.17           | 87.48       | 7,388.08              | -852.24      | 1,853.99     | 1,845.73                | 0.47                    | -0.15                  | -0.45                 |
| 9,341.57              | 89.15           | 87.39       | 7,388.28              | -851.63      | 1,867.55     | 1,859.29                | 0.68                    | -0.15                  | -0.66                 |
| 9,355.14              | 89.13           | 87.28       | 7,388.48              | -851.00      | 1,881.10     | 1,872.85                | 0.82                    | -0.15                  | -0.81                 |
| 9,368.71              | 89.11           | 87.16       | 7,388.69              | -850.34      | 1,894.65     | 1,886.40                | 0.90                    | -0.15                  | -0.88                 |
| 9,382.29              | 89.10           | 87.05       | 7,388.90              | -849.66      | 1,908.22     | 1,899.97                | 0.81                    | -0.07                  | -0.81                 |
| 9,395.86              | 89.10           | 86.96       | 7,389.12              | -848.95      | 1,921.76     | 1,913.53                | 0.66                    | 0.00                   | -0.66                 |
| 9,409.43              | 89.09           | 86.91       | 7,389.33              | -848.22      | 1,935.31     | 1,927.08                | 0.38                    | -0.07                  | -0.37                 |
| 9,423.00              | 89.06           | 86.92       | 7,389.55              | -847.49      | 1,948.86     | 1,940.64                | 0.23                    | -0.22                  | 0.07                  |
| 9,436.57              | 88.99           | 87.03       | 7,389.78              | -846.78      | 1,962.41     | 1,954.19                | 0.96                    | -0.52                  | 0.81                  |
| 9,450.14              | 88.91           | 87.21       | 7,390.03              | -846.10      | 1,975.96     | 1,967.75                | 1.45                    | -0.59                  | 1.33                  |
| 9,463.71              | 88.83           | 87.41       | 7,390.30              | -845.46      | 1,989.51     | 1,981.31                | 1.59                    | -0.59                  | 1.47                  |
| 9,477.29              | 88.74           | 87.61       | 7,390.59              | -844.87      | 2,003.08     | 1,994.88                | 1.61                    | -0.66                  | 1.47                  |
| 9,490.86              | 88.60           | 87.79       | 7,390.90              | -844.33      | 2,016.63     | 2,008.44                | 1.68                    | -1.03                  | 1.33                  |
| 9,504.43              | 89.03           | 88.79       | 7,391.18              | -843.92      | 2,030.19     | 2,022.00                | 8.02                    | 3.17                   | 7.37                  |
| 9,518.00              | 90.07           | 90.32       | 7,391.29              | -843.82      | 2,043.76     | 2,035.57                | 13.63                   | 7.66                   | 11.27                 |
| 9,531.43              | 90.19           | 90.65       | 7,391.26              | -843.93      | 2,057.19     | 2,049.00                | 2.61                    | 0.89                   | 2.46                  |
| 9,544.86              | 90.04           | 90.66       | 7,391.23              | -844.08      | 2,070.62     | 2,062.42                | 1.12                    | -1.12                  | 0.07                  |
| 9,558.29              | 89.97           | 90.64       | 7,391.23              | -844.24      | 2,084.05     | 2,075.85                | 0.54                    | -0.52                  | -0.15                 |
| 9,571.71              | 89.92           | 90.61       | 7,391.24              | -844.38      | 2,097.47     | 2,089.27                | 0.43                    | -0.37                  | -0.22                 |
| 9,585.14              | 89.88           | 90.56       | 7,391.27              | -844.52      | 2,110.90     | 2,102.70                | 0.48                    | -0.30                  | -0.37                 |
| 9,598.57              | 89.85           | 90.50       | 7,391.30              | -844.64      | 2,124.33     | 2,116.12                | 0.50                    | -0.22                  | -0.45                 |
| 9,612.00              | 89.82           | 90.41       | 7,391.34              | -844.75      | 2,137.76     | 2,129.55                | 0.71                    | -0.22                  | -0.67                 |
| 9,625.57              | 89.79           | 90.30       | 7,391.38              | -844.83      | 2,151.33     | 2,143.12                | 0.84                    | -0.22                  | -0.81                 |
| 9,639.14              | 89.75           | 90.17       | 7,391.44              | -844.89      | 2,164.90     | 2,156.69                | 1.00                    | -0.29                  | -0.96                 |
| 9,652.71              | 89.69           | 90.03       | 7,391.50              | -844.91      | 2,178.47     | 2,170.26                | 1.12                    | -0.44                  | -1.03                 |
| 9,666.29              | 89.63           | 89.89       | 7,391.58              | -844.90      | 2,192.05     | 2,183.84                | 1.12                    | -0.44                  | -1.03                 |
| 9,679.86              | 89.58           | 89.75       | 7,391.68              | -844.86      | 2,205.62     | 2,197.41                | 1.10                    | -0.37                  | -1.03                 |
| 9,693.43              | 89.54           | 89.61       | 7,391.78              | -844.78      | 2,219.19     | 2,210.97                | 1.07                    | -0.29                  | -1.03                 |
| 9,707.00              | 89.52           | 89.49       | 7,391.89              | -844.68      | 2,232.76     | 2,224.54                | 0.90                    | -0.15                  | -0.88                 |
| 9,720.43              | 89.49           | 89.39       | 7,392.01              | -844.55      | 2,246.18     | 2,237.97                | 0.78                    | -0.22                  | -0.74                 |
| 9,733.86              | 89.46           | 89.31       | 7,392.13              | -844.39      | 2,259.61     | 2,251.40                | 0.64                    | -0.22                  | -0.60                 |
| 9,747.29              | 89.44           | 89.25       | 7,392.26              | -844.23      | 2,273.04     | 2,264.83                | 0.47                    | -0.15                  | -0.45                 |
| 9,760.71              | 89.43           | 89.20       | 7,392.39              | -844.04      | 2,286.46     | 2,278.25                | 0.38                    | -0.07                  | -0.37                 |



## Survey Report

|                  |                                  |                                     |                                       |
|------------------|----------------------------------|-------------------------------------|---------------------------------------|
| <b>Company:</b>  | Colgate Energy                   | <b>Local Co-ordinate Reference:</b> | Well (A04) Toro 22 Fed State Com 122H |
| <b>Project:</b>  | Eddy County, NM (N83-NME)        | <b>TVD Reference:</b>               | 3422+30 @ 3452.00usft                 |
| <b>Site:</b>     | Toro 22 Fed State Com            | <b>MD Reference:</b>                | 3422+30 @ 3452.00usft                 |
| <b>Well:</b>     | (A04) Toro 22 Fed State Com 122H | <b>North Reference:</b>             | Grid                                  |
| <b>Wellbore:</b> | 122H                             | <b>Survey Calculation Method:</b>   | Minimum Curvature                     |
| <b>Design:</b>   | 122H                             | <b>Database:</b>                    | EDM 5000.14 Single User Db            |

| 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) |
| 9,774.14              | 89.44           | 89.18       | 7,392.52              | -843.85      | 2,299.89     | 2,291.68                | 0.17                    | 0.07                   | -0.15                 |
| 9,787.57              | 89.46           | 89.19       | 7,392.65              | -843.66      | 2,313.32     | 2,305.11                | 0.17                    | 0.15                   | 0.07                  |
| 9,801.00              | 89.46           | 89.25       | 7,392.78              | -843.48      | 2,326.74     | 2,318.54                | 0.45                    | 0.00                   | 0.45                  |
| 9,814.57              | 89.44           | 89.38       | 7,392.91              | -843.32      | 2,340.31     | 2,332.11                | 0.97                    | -0.15                  | 0.96                  |
| 9,828.14              | 89.39           | 89.56       | 7,393.05              | -843.19      | 2,353.88     | 2,345.68                | 1.38                    | -0.37                  | 1.33                  |
| 9,841.71              | 89.34           | 89.75       | 7,393.20              | -843.11      | 2,367.45     | 2,359.25                | 1.45                    | -0.37                  | 1.40                  |
| 9,855.29              | 89.26           | 89.94       | 7,393.37              | -843.07      | 2,381.03     | 2,372.83                | 1.52                    | -0.59                  | 1.40                  |
| 9,868.86              | 89.15           | 90.12       | 7,393.55              | -843.08      | 2,394.60     | 2,386.39                | 1.55                    | -0.81                  | 1.33                  |
| 9,882.43              | 89.55           | 90.67       | 7,393.71              | -843.18      | 2,408.17     | 2,399.96                | 5.01                    | 2.95                   | 4.05                  |
| 9,896.00              | 90.48           | 91.62       | 7,393.70              | -843.45      | 2,421.73     | 2,413.53                | 9.80                    | 6.85                   | 7.00                  |
| 9,909.57              | 90.40           | 91.64       | 7,393.60              | -843.83      | 2,435.30     | 2,427.08                | 0.61                    | -0.59                  | 0.15                  |
| 9,923.14              | 90.35           | 91.63       | 7,393.51              | -844.22      | 2,448.86     | 2,440.64                | 0.38                    | -0.37                  | -0.07                 |
| 9,936.71              | 90.36           | 91.60       | 7,393.43              | -844.60      | 2,462.43     | 2,454.20                | 0.23                    | 0.07                   | -0.22                 |
| 9,950.29              | 90.39           | 91.55       | 7,393.34              | -844.98      | 2,476.00     | 2,467.78                | 0.43                    | 0.22                   | -0.37                 |
| 9,963.86              | 90.43           | 91.49       | 7,393.24              | -845.34      | 2,489.57     | 2,481.34                | 0.53                    | 0.29                   | -0.44                 |
| 9,977.43              | 90.45           | 91.43       | 7,393.14              | -845.68      | 2,503.13     | 2,494.90                | 0.47                    | 0.15                   | -0.44                 |
| 9,991.00              | 90.47           | 91.36       | 7,393.03              | -846.01      | 2,516.70     | 2,508.46                | 0.54                    | 0.15                   | -0.52                 |
| 10,004.43             | 90.47           | 91.28       | 7,392.92              | -846.32      | 2,530.12     | 2,521.88                | 0.60                    | 0.00                   | -0.60                 |
| 10,017.86             | 90.46           | 91.21       | 7,392.81              | -846.61      | 2,543.55     | 2,535.30                | 0.53                    | -0.07                  | -0.52                 |
| 10,031.29             | 90.46           | 91.13       | 7,392.70              | -846.89      | 2,556.97     | 2,548.73                | 0.60                    | 0.00                   | -0.60                 |
| 10,044.71             | 90.45           | 91.05       | 7,392.59              | -847.14      | 2,570.39     | 2,562.14                | 0.60                    | -0.07                  | -0.60                 |
| 10,058.14             | 90.45           | 90.98       | 7,392.49              | -847.38      | 2,583.82     | 2,575.57                | 0.52                    | 0.00                   | -0.52                 |
| 10,071.57             | 90.46           | 90.91       | 7,392.38              | -847.60      | 2,597.25     | 2,588.99                | 0.53                    | 0.07                   | -0.52                 |
| 10,085.00             | 90.49           | 90.84       | 7,392.27              | -847.81      | 2,610.68     | 2,602.42                | 0.57                    | 0.22                   | -0.52                 |
| 10,098.57             | 90.54           | 90.79       | 7,392.15              | -848.00      | 2,624.24     | 2,615.98                | 0.52                    | 0.37                   | -0.37                 |
| 10,112.14             | 90.61           | 90.74       | 7,392.01              | -848.18      | 2,637.81     | 2,629.55                | 0.63                    | 0.52                   | -0.37                 |
| 10,125.71             | 90.74           | 90.70       | 7,391.85              | -848.35      | 2,651.38     | 2,643.11                | 1.00                    | 0.96                   | -0.29                 |
| 10,139.29             | 90.83           | 90.65       | 7,391.67              | -848.51      | 2,664.96     | 2,656.69                | 0.76                    | 0.66                   | -0.37                 |
| 10,152.86             | 90.85           | 90.62       | 7,391.47              | -848.66      | 2,678.52     | 2,670.26                | 0.27                    | 0.15                   | -0.22                 |
| 10,166.43             | 90.73           | 90.58       | 7,391.28              | -848.80      | 2,692.09     | 2,683.82                | 0.93                    | -0.88                  | -0.29                 |
| 10,180.00             | 90.58           | 90.54       | 7,391.13              | -848.94      | 2,705.66     | 2,697.39                | 1.14                    | -1.11                  | -0.29                 |
| 10,193.43             | 90.46           | 90.50       | 7,391.00              | -849.06      | 2,719.09     | 2,710.81                | 0.94                    | -0.89                  | -0.30                 |
| 10,206.86             | 90.38           | 90.45       | 7,390.91              | -849.17      | 2,732.52     | 2,724.24                | 0.70                    | -0.60                  | -0.37                 |
| 10,220.29             | 90.36           | 90.41       | 7,390.82              | -849.27      | 2,745.95     | 2,737.67                | 0.33                    | -0.15                  | -0.30                 |
| 10,233.71             | 90.38           | 90.36       | 7,390.73              | -849.36      | 2,759.37     | 2,751.09                | 0.40                    | 0.15                   | -0.37                 |
| 10,247.14             | 90.44           | 90.32       | 7,390.64              | -849.44      | 2,772.80     | 2,764.52                | 0.54                    | 0.45                   | -0.30                 |
| 10,260.57             | 90.42           | 90.27       | 7,390.54              | -849.51      | 2,786.23     | 2,777.94                | 0.40                    | -0.15                  | -0.37                 |
| 10,274.00             | 90.35           | 90.23       | 7,390.44              | -849.57      | 2,799.66     | 2,791.37                | 0.60                    | -0.52                  | -0.30                 |
| 10,287.57             | 90.22           | 90.18       | 7,390.38              | -849.62      | 2,813.23     | 2,804.94                | 1.03                    | -0.96                  | -0.37                 |
| 10,301.14             | 90.11           | 90.13       | 7,390.34              | -849.65      | 2,826.80     | 2,818.51                | 0.89                    | -0.81                  | -0.37                 |
| 10,314.71             | 90.03           | 90.08       | 7,390.32              | -849.68      | 2,840.37     | 2,832.08                | 0.70                    | -0.59                  | -0.37                 |
| 10,328.29             | 89.96           | 90.03       | 7,390.32              | -849.69      | 2,853.95     | 2,845.66                | 0.63                    | -0.52                  | -0.37                 |
| 10,341.86             | 89.91           | 89.96       | 7,390.34              | -849.69      | 2,867.52     | 2,859.23                | 0.63                    | -0.37                  | -0.52                 |



## Survey Report

|                  |                                  |                                     |                                       |
|------------------|----------------------------------|-------------------------------------|---------------------------------------|
| <b>Company:</b>  | Colgate Energy                   | <b>Local Co-ordinate Reference:</b> | Well (A04) Toro 22 Fed State Com 122H |
| <b>Project:</b>  | Eddy County, NM (N83-NME)        | <b>TVD Reference:</b>               | 3422+30 @ 3452.00usft                 |
| <b>Site:</b>     | Toro 22 Fed State Com            | <b>MD Reference:</b>                | 3422+30 @ 3452.00usft                 |
| <b>Well:</b>     | (A04) Toro 22 Fed State Com 122H | <b>North Reference:</b>             | Grid                                  |
| <b>Wellbore:</b> | 122H                             | <b>Survey Calculation Method:</b>   | Minimum Curvature                     |
| <b>Design:</b>   | 122H                             | <b>Database:</b>                    | EDM 5000.14 Single User Db            |

| 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) |  |
| 10,355.43                  | 89.88           | 89.89       | 7,390.36              | -849.67      | 2,881.09     | 2,872.80                | 0.56                    | -0.22                  | -0.52                 |  |
| 10,369.00                  | 89.85           | 89.80       | 7,390.40              | -849.64      | 2,894.66     | 2,886.37                | 0.70                    | -0.22                  | -0.66                 |  |
| 10,382.43                  | 89.78           | 89.69       | 7,390.44              | -849.58      | 2,908.09     | 2,899.80                | 0.97                    | -0.52                  | -0.82                 |  |
| 10,395.86                  | 89.70           | 89.56       | 7,390.50              | -849.49      | 2,921.52     | 2,913.23                | 1.14                    | -0.60                  | -0.97                 |  |
| 10,409.29                  | 89.65           | 89.42       | 7,390.58              | -849.37      | 2,934.94     | 2,926.66                | 1.11                    | -0.37                  | -1.04                 |  |
| 10,422.71                  | 89.61           | 89.29       | 7,390.66              | -849.22      | 2,948.36     | 2,940.08                | 1.01                    | -0.30                  | -0.97                 |  |
| 10,436.14                  | 89.59           | 89.15       | 7,390.76              | -849.03      | 2,961.79     | 2,953.51                | 1.05                    | -0.15                  | -1.04                 |  |
| 10,449.57                  | 89.53           | 89.03       | 7,390.86              | -848.82      | 2,975.22     | 2,966.93                | 1.00                    | -0.45                  | -0.89                 |  |
| 10,463.00                  | 89.39           | 88.93       | 7,390.99              | -848.58      | 2,988.65     | 2,980.36                | 1.28                    | -1.04                  | -0.74                 |  |
| 10,476.57                  | 89.26           | 88.86       | 7,391.15              | -848.32      | 3,002.21     | 2,993.93                | 1.09                    | -0.96                  | -0.52                 |  |
| 10,490.14                  | 89.15           | 88.81       | 7,391.33              | -848.04      | 3,015.78     | 3,007.50                | 0.89                    | -0.81                  | -0.37                 |  |
| 10,503.71                  | 89.09           | 88.77       | 7,391.54              | -847.76      | 3,029.34     | 3,021.07                | 0.53                    | -0.44                  | -0.29                 |  |
| 10,517.29                  | 89.06           | 88.74       | 7,391.76              | -847.46      | 3,042.92     | 3,034.64                | 0.31                    | -0.22                  | -0.22                 |  |
| 10,530.86                  | 89.07           | 88.71       | 7,391.98              | -847.16      | 3,056.48     | 3,048.21                | 0.23                    | 0.07                   | -0.22                 |  |
| 10,544.43                  | 89.10           | 88.69       | 7,392.20              | -846.85      | 3,070.05     | 3,061.78                | 0.27                    | 0.22                   | -0.15                 |  |
| 10,558.00                  | 89.15           | 88.67       | 7,392.41              | -846.54      | 3,083.61     | 3,075.35                | 0.40                    | 0.37                   | -0.15                 |  |
| 10,571.43                  | 89.18           | 88.65       | 7,392.60              | -846.23      | 3,097.04     | 3,088.77                | 0.27                    | 0.22                   | -0.15                 |  |
| 10,582.34                  | 89.18           | 88.63       | 7,392.76              | -845.97      | 3,107.95     | 3,099.68                | 0.22                    | 0.00                   | -0.22                 |  |
| <b>02-v3100(Toro-122H)</b> |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 10,584.86                  | 89.18           | 88.62       | 7,392.79              | -845.91      | 3,110.46     | 3,102.20                | 0.22                    | 0.00                   | -0.22                 |  |
| 10,598.29                  | 89.13           | 88.60       | 7,392.99              | -845.58      | 3,123.89     | 3,115.63                | 0.40                    | -0.37                  | -0.15                 |  |
| 10,611.71                  | 89.09           | 88.57       | 7,393.20              | -845.25      | 3,137.30     | 3,129.04                | 0.37                    | -0.30                  | -0.22                 |  |
| 10,625.14                  | 89.06           | 88.55       | 7,393.42              | -844.91      | 3,150.73     | 3,142.47                | 0.27                    | -0.22                  | -0.15                 |  |
| 10,638.57                  | 89.05           | 88.53       | 7,393.64              | -844.57      | 3,164.15     | 3,155.90                | 0.17                    | -0.07                  | -0.15                 |  |
| 10,652.00                  | 89.03           | 88.51       | 7,393.86              | -844.22      | 3,177.57     | 3,169.32                | 0.21                    | -0.15                  | -0.15                 |  |
| 10,665.43                  | 88.97           | 88.50       | 7,394.10              | -843.87      | 3,191.00     | 3,182.75                | 0.45                    | -0.45                  | -0.07                 |  |
| 10,678.86                  | 88.89           | 88.50       | 7,394.35              | -843.52      | 3,204.42     | 3,196.18                | 0.60                    | -0.60                  | 0.00                  |  |
| 10,692.29                  | 88.84           | 88.49       | 7,394.62              | -843.17      | 3,217.84     | 3,209.60                | 0.38                    | -0.37                  | -0.07                 |  |
| 10,705.71                  | 88.82           | 88.49       | 7,394.89              | -842.82      | 3,231.26     | 3,223.02                | 0.15                    | -0.15                  | 0.00                  |  |
| 10,719.14                  | 88.84           | 88.48       | 7,395.16              | -842.46      | 3,244.68     | 3,236.44                | 0.17                    | 0.15                   | -0.07                 |  |
| 10,732.57                  | 88.86           | 88.46       | 7,395.43              | -842.10      | 3,258.10     | 3,249.87                | 0.21                    | 0.15                   | -0.15                 |  |
| 10,746.00                  | 88.89           | 88.43       | 7,395.70              | -841.74      | 3,271.52     | 3,263.29                | 0.32                    | 0.22                   | -0.22                 |  |
| 10,759.57                  | 88.92           | 88.37       | 7,395.96              | -841.36      | 3,285.09     | 3,276.86                | 0.49                    | 0.22                   | -0.44                 |  |
| 10,773.14                  | 88.97           | 88.30       | 7,396.21              | -840.96      | 3,298.65     | 3,290.42                | 0.63                    | 0.37                   | -0.52                 |  |
| 10,786.71                  | 89.07           | 88.22       | 7,396.44              | -840.55      | 3,312.21     | 3,303.99                | 0.94                    | 0.74                   | -0.59                 |  |
| 10,800.29                  | 89.11           | 88.14       | 7,396.65              | -840.12      | 3,325.78     | 3,317.56                | 0.66                    | 0.29                   | -0.59                 |  |
| 10,813.86                  | 89.05           | 88.06       | 7,396.87              | -839.67      | 3,339.34     | 3,331.13                | 0.74                    | -0.44                  | -0.59                 |  |
| 10,827.43                  | 88.93           | 87.98       | 7,397.11              | -839.20      | 3,352.90     | 3,344.69                | 1.06                    | -0.88                  | -0.59                 |  |
| 10,841.00                  | 88.77           | 87.90       | 7,397.38              | -838.71      | 3,366.46     | 3,358.25                | 1.32                    | -1.18                  | -0.59                 |  |
| 10,854.57                  | 88.69           | 87.84       | 7,397.68              | -838.21      | 3,380.02     | 3,371.82                | 0.74                    | -0.59                  | -0.44                 |  |
| 10,868.14                  | 88.65           | 87.79       | 7,398.00              | -837.69      | 3,393.57     | 3,385.38                | 0.47                    | -0.29                  | -0.37                 |  |
| 10,881.71                  | 88.66           | 87.74       | 7,398.32              | -837.16      | 3,407.13     | 3,398.94                | 0.38                    | 0.07                   | -0.37                 |  |
| 10,895.29                  | 88.72           | 87.68       | 7,398.63              | -836.62      | 3,420.70     | 3,412.51                | 0.62                    | 0.44                   | -0.44                 |  |



## Survey Report

|                  |                                  |                                     |                                       |
|------------------|----------------------------------|-------------------------------------|---------------------------------------|
| <b>Company:</b>  | Colgate Energy                   | <b>Local Co-ordinate Reference:</b> | Well (A04) Toro 22 Fed State Com 122H |
| <b>Project:</b>  | Eddy County, NM (N83-NME)        | <b>TVD Reference:</b>               | 3422+30 @ 3452.00usft                 |
| <b>Site:</b>     | Toro 22 Fed State Com            | <b>MD Reference:</b>                | 3422+30 @ 3452.00usft                 |
| <b>Well:</b>     | (A04) Toro 22 Fed State Com 122H | <b>North Reference:</b>             | Grid                                  |
| <b>Wellbore:</b> | 122H                             | <b>Survey Calculation Method:</b>   | Minimum Curvature                     |
| <b>Design:</b>   | 122H                             | <b>Database:</b>                    | EDM 5000.14 Single User Db            |

| 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) |  |
| 10,908.86             | 88.76           | 87.62       | 7,398.93              | -836.07      | 3,434.25     | 3,426.07                | 0.53                    | 0.29                   | -0.44                 |  |
| 10,922.43             | 88.69           | 87.56       | 7,399.23              | -835.49      | 3,447.81     | 3,439.63                | 0.68                    | -0.52                  | -0.44                 |  |
| 10,936.00             | 88.56           | 87.47       | 7,399.55              | -834.91      | 3,461.36     | 3,453.18                | 1.17                    | -0.96                  | -0.66                 |  |
| 10,949.57             | 88.34           | 87.36       | 7,399.92              | -834.29      | 3,474.91     | 3,466.74                | 1.81                    | -1.62                  | -0.81                 |  |
| 10,963.14             | 88.17           | 87.24       | 7,400.33              | -833.66      | 3,488.46     | 3,480.30                | 1.53                    | -1.25                  | -0.88                 |  |
| 10,976.71             | 88.08           | 87.12       | 7,400.78              | -832.99      | 3,502.00     | 3,493.85                | 1.11                    | -0.66                  | -0.88                 |  |
| 10,990.29             | 88.06           | 87.00       | 7,401.24              | -832.29      | 3,515.56     | 3,507.41                | 0.90                    | -0.15                  | -0.88                 |  |
| 11,003.86             | 88.09           | 86.91       | 7,401.69              | -831.57      | 3,529.10     | 3,520.96                | 0.70                    | 0.22                   | -0.66                 |  |
| 11,017.43             | 88.19           | 86.86       | 7,402.13              | -830.84      | 3,542.65     | 3,534.51                | 0.82                    | 0.74                   | -0.37                 |  |
| 11,031.00             | 88.29           | 86.87       | 7,402.55              | -830.09      | 3,556.19     | 3,548.06                | 0.74                    | 0.74                   | 0.07                  |  |
| 11,044.43             | 88.32           | 86.97       | 7,402.95              | -829.37      | 3,569.59     | 3,561.47                | 0.78                    | 0.22                   | 0.74                  |  |
| 11,057.86             | 88.34           | 87.13       | 7,403.34              | -828.68      | 3,583.00     | 3,574.88                | 1.20                    | 0.15                   | 1.19                  |  |
| 11,071.29             | 88.42           | 87.32       | 7,403.72              | -828.03      | 3,596.41     | 3,588.29                | 1.53                    | 0.60                   | 1.41                  |  |
| 11,084.71             | 88.16           | 87.51       | 7,404.12              | -827.43      | 3,609.81     | 3,601.70                | 2.40                    | -1.94                  | 1.42                  |  |
| 11,098.14             | 87.81           | 87.67       | 7,404.59              | -826.86      | 3,623.22     | 3,615.11                | 2.87                    | -2.61                  | 1.19                  |  |
| 11,111.57             | 87.53           | 88.44       | 7,405.14              | -826.41      | 3,636.63     | 3,628.53                | 6.10                    | -2.08                  | 5.73                  |  |
| 11,125.00             | 87.52           | 90.13       | 7,405.72              | -826.24      | 3,650.05     | 3,641.95                | 12.57                   | -0.07                  | 12.58                 |  |
| 11,138.43             | 87.43           | 90.60       | 7,406.31              | -826.32      | 3,663.46     | 3,655.36                | 3.56                    | -0.67                  | 3.50                  |  |
| 11,151.86             | 87.24           | 90.51       | 7,406.93              | -826.45      | 3,676.88     | 3,668.77                | 1.57                    | -1.41                  | -0.67                 |  |
| 11,165.29             | 87.16           | 90.39       | 7,407.59              | -826.56      | 3,690.29     | 3,682.19                | 1.07                    | -0.60                  | -0.89                 |  |
| 11,178.71             | 87.14           | 90.25       | 7,408.26              | -826.63      | 3,703.69     | 3,695.59                | 1.05                    | -0.15                  | -1.04                 |  |
| 11,192.14             | 87.15           | 90.10       | 7,408.92              | -826.68      | 3,717.11     | 3,709.00                | 1.12                    | 0.07                   | -1.12                 |  |
| 11,205.57             | 87.14           | 89.97       | 7,409.59              | -826.68      | 3,730.52     | 3,722.41                | 0.97                    | -0.07                  | -0.97                 |  |
| 11,219.00             | 87.09           | 89.85       | 7,410.27              | -826.66      | 3,743.93     | 3,735.83                | 0.97                    | -0.37                  | -0.89                 |  |
| 11,232.57             | 86.93           | 89.77       | 7,410.98              | -826.62      | 3,757.49     | 3,749.38                | 1.32                    | -1.18                  | -0.59                 |  |
| 11,246.14             | 86.74           | 89.71       | 7,411.73              | -826.56      | 3,771.03     | 3,762.93                | 1.47                    | -1.40                  | -0.44                 |  |
| 11,259.71             | 86.61           | 89.67       | 7,412.51              | -826.48      | 3,784.58     | 3,776.47                | 1.00                    | -0.96                  | -0.29                 |  |
| 11,273.29             | 86.50           | 89.64       | 7,413.33              | -826.40      | 3,798.14     | 3,790.03                | 0.84                    | -0.81                  | -0.22                 |  |
| 11,286.86             | 86.35           | 89.62       | 7,414.18              | -826.31      | 3,811.68     | 3,803.57                | 1.12                    | -1.11                  | -0.15                 |  |
| 11,300.43             | 86.54           | 89.91       | 7,415.02              | -826.26      | 3,825.22     | 3,817.12                | 2.55                    | 1.40                   | 2.14                  |  |
| 11,314.00             | 86.98           | 90.37       | 7,415.78              | -826.29      | 3,838.77     | 3,830.66                | 4.69                    | 3.24                   | 3.39                  |  |
| 11,327.43             | 86.79           | 90.36       | 7,416.51              | -826.38      | 3,852.18     | 3,844.07                | 1.42                    | -1.41                  | -0.07                 |  |
| 11,340.86             | 86.62           | 90.36       | 7,417.29              | -826.46      | 3,865.59     | 3,857.48                | 1.27                    | -1.27                  | 0.00                  |  |
| 11,354.29             | 86.62           | 90.36       | 7,418.08              | -826.55      | 3,879.00     | 3,870.88                | 0.00                    | 0.00                   | 0.00                  |  |
| 11,367.71             | 86.75           | 90.37       | 7,418.85              | -826.63      | 3,892.39     | 3,884.28                | 0.97                    | 0.97                   | 0.07                  |  |
| 11,381.14             | 86.88           | 90.41       | 7,419.60              | -826.72      | 3,905.80     | 3,897.69                | 1.01                    | 0.97                   | 0.30                  |  |
| 11,394.57             | 87.24           | 90.56       | 7,420.29              | -826.84      | 3,919.21     | 3,911.10                | 2.90                    | 2.68                   | 1.12                  |  |
| 11,408.00             | 88.55           | 90.98       | 7,420.78              | -827.02      | 3,932.63     | 3,924.51                | 10.24                   | 9.75                   | 3.13                  |  |
| 11,421.43             | 88.45           | 91.16       | 7,421.13              | -827.27      | 3,946.06     | 3,937.93                | 1.53                    | -0.74                  | 1.34                  |  |
| 11,434.86             | 88.27           | 91.37       | 7,421.52              | -827.56      | 3,959.48     | 3,951.35                | 2.06                    | -1.34                  | 1.56                  |  |
| 11,448.29             | 88.23           | 91.60       | 7,421.93              | -827.91      | 3,972.90     | 3,964.77                | 1.74                    | -0.30                  | 1.71                  |  |
| 11,461.71             | 88.35           | 91.83       | 7,422.33              | -828.31      | 3,986.30     | 3,978.17                | 1.93                    | 0.89                   | 1.71                  |  |
| 11,475.14             | 88.56           | 92.05       | 7,422.69              | -828.77      | 3,999.72     | 3,991.58                | 2.26                    | 1.56                   | 1.64                  |  |
| 11,488.57             | 88.94           | 92.18       | 7,422.98              | -829.26      | 4,013.14     | 4,004.99                | 2.99                    | 2.83                   | 0.97                  |  |



## Survey Report

|                  |                                  |                                     |                                       |
|------------------|----------------------------------|-------------------------------------|---------------------------------------|
| <b>Company:</b>  | Colgate Energy                   | <b>Local Co-ordinate Reference:</b> | Well (A04) Toro 22 Fed State Com 122H |
| <b>Project:</b>  | Eddy County, NM (N83-NME)        | <b>TVD Reference:</b>               | 3422+30 @ 3452.00usft                 |
| <b>Site:</b>     | Toro 22 Fed State Com            | <b>MD Reference:</b>                | 3422+30 @ 3452.00usft                 |
| <b>Well:</b>     | (A04) Toro 22 Fed State Com 122H | <b>North Reference:</b>             | Grid                                  |
| <b>Wellbore:</b> | 122H                             | <b>Survey Calculation Method:</b>   | Minimum Curvature                     |
| <b>Design:</b>   | 122H                             | <b>Database:</b>                    | EDM 5000.14 Single User Db            |

| 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) |
| 11,502.00             | 90.47           | 91.89       | 7,423.05              | -829.74      | 4,026.56     | 4,018.41                | 11.60                   | 11.39                  | -2.16                 |
| 11,515.57             | 91.57           | 91.87       | 7,422.81              | -830.18      | 4,040.12     | 4,031.97                | 8.11                    | 8.11                   | -0.15                 |
| 11,529.14             | 91.58           | 91.94       | 7,422.44              | -830.64      | 4,053.68     | 4,045.52                | 0.52                    | 0.07                   | 0.52                  |
| 11,542.71             | 91.55           | 92.00       | 7,422.07              | -831.10      | 4,067.24     | 4,059.07                | 0.49                    | -0.22                  | 0.44                  |
| 11,556.29             | 91.48           | 92.04       | 7,421.71              | -831.58      | 4,080.80     | 4,072.63                | 0.59                    | -0.52                  | 0.29                  |
| 11,569.86             | 91.40           | 92.05       | 7,421.37              | -832.06      | 4,094.36     | 4,086.18                | 0.59                    | -0.59                  | 0.07                  |
| 11,583.43             | 91.33           | 92.04       | 7,421.04              | -832.55      | 4,107.92     | 4,099.74                | 0.52                    | -0.52                  | -0.07                 |
| 11,597.00             | 91.28           | 92.00       | 7,420.73              | -833.03      | 4,121.47     | 4,113.29                | 0.47                    | -0.37                  | -0.29                 |
| 11,610.43             | 91.20           | 91.89       | 7,420.44              | -833.48      | 4,134.89     | 4,126.70                | 1.01                    | -0.60                  | -0.82                 |
| 11,623.86             | 91.19           | 91.75       | 7,420.16              | -833.91      | 4,148.31     | 4,140.12                | 1.04                    | -0.07                  | -1.04                 |
| 11,637.29             | 91.32           | 91.60       | 7,419.87              | -834.30      | 4,161.73     | 4,153.53                | 1.48                    | 0.97                   | -1.12                 |
| 11,650.71             | 91.58           | 91.44       | 7,419.53              | -834.66      | 4,175.15     | 4,166.94                | 2.27                    | 1.94                   | -1.19                 |
| 11,664.14             | 91.86           | 91.28       | 7,419.13              | -834.98      | 4,188.57     | 4,180.36                | 2.40                    | 2.08                   | -1.19                 |
| 11,677.57             | 92.29           | 90.61       | 7,418.64              | -835.20      | 4,201.99     | 4,193.77                | 5.93                    | 3.20                   | -4.99                 |
| 11,691.00             | 92.74           | 89.31       | 7,418.05              | -835.19      | 4,215.40     | 4,207.19                | 10.23                   | 3.35                   | -9.68                 |
| 11,704.57             | 92.83           | 89.22       | 7,417.39              | -835.01      | 4,228.95     | 4,220.74                | 0.94                    | 0.66                   | -0.66                 |
| 11,718.14             | 92.92           | 89.13       | 7,416.71              | -834.82      | 4,242.51     | 4,234.30                | 0.94                    | 0.66                   | -0.66                 |
| 11,731.71             | 93.04           | 89.05       | 7,416.01              | -834.60      | 4,256.06     | 4,247.85                | 1.06                    | 0.88                   | -0.59                 |
| 11,745.29             | 93.18           | 88.98       | 7,415.27              | -834.37      | 4,269.61     | 4,261.41                | 1.15                    | 1.03                   | -0.52                 |
| 11,758.86             | 93.29           | 88.92       | 7,414.50              | -834.12      | 4,283.16     | 4,274.96                | 0.92                    | 0.81                   | -0.44                 |
| 11,772.43             | 93.21           | 88.86       | 7,413.73              | -833.86      | 4,296.71     | 4,288.50                | 0.74                    | -0.59                  | -0.44                 |
| 11,786.00             | 93.08           | 88.82       | 7,412.99              | -833.59      | 4,310.25     | 4,302.05                | 1.00                    | -0.96                  | -0.29                 |
| 11,799.43             | 92.90           | 88.79       | 7,412.29              | -833.31      | 4,323.66     | 4,315.46                | 1.36                    | -1.34                  | -0.22                 |
| 11,812.86             | 92.83           | 88.77       | 7,411.62              | -833.02      | 4,337.07     | 4,328.88                | 0.54                    | -0.52                  | -0.15                 |
| 11,826.29             | 92.82           | 88.76       | 7,410.96              | -832.73      | 4,350.48     | 4,342.29                | 0.11                    | -0.07                  | -0.07                 |
| 11,839.71             | 92.88           | 88.74       | 7,410.29              | -832.44      | 4,363.88     | 4,355.69                | 0.47                    | 0.45                   | -0.15                 |
| 11,853.14             | 92.96           | 88.72       | 7,409.60              | -832.14      | 4,377.29     | 4,369.10                | 0.61                    | 0.60                   | -0.15                 |
| 11,866.57             | 93.01           | 88.69       | 7,408.91              | -831.84      | 4,390.70     | 4,382.51                | 0.43                    | 0.37                   | -0.22                 |
| 11,880.00             | 93.03           | 88.65       | 7,408.20              | -831.53      | 4,404.11     | 4,395.92                | 0.33                    | 0.15                   | -0.30                 |
| 11,893.43             | 92.97           | 88.58       | 7,407.50              | -831.20      | 4,417.52     | 4,409.33                | 0.69                    | -0.45                  | -0.52                 |
| 11,906.86             | 92.82           | 88.49       | 7,406.82              | -830.86      | 4,430.92     | 4,422.74                | 1.30                    | -1.12                  | -0.67                 |
| 11,920.29             | 92.75           | 88.40       | 7,406.16              | -830.50      | 4,444.33     | 4,436.16                | 0.85                    | -0.52                  | -0.67                 |
| 11,933.71             | 92.75           | 88.30       | 7,405.52              | -830.11      | 4,457.73     | 4,449.56                | 0.74                    | 0.00                   | -0.75                 |
| 11,947.14             | 92.83           | 88.19       | 7,404.87              | -829.70      | 4,471.14     | 4,462.97                | 1.01                    | 0.60                   | -0.82                 |
| 11,960.57             | 92.90           | 88.10       | 7,404.20              | -829.26      | 4,484.55     | 4,476.38                | 0.85                    | 0.52                   | -0.67                 |
| 11,974.00             | 92.85           | 88.00       | 7,403.52              | -828.81      | 4,497.95     | 4,489.79                | 0.83                    | -0.37                  | -0.74                 |
| 11,987.43             | 92.67           | 87.93       | 7,402.88              | -828.33      | 4,511.36     | 4,503.20                | 1.44                    | -1.34                  | -0.52                 |
| 12,000.86             | 92.53           | 87.86       | 7,402.27              | -827.84      | 4,524.76     | 4,516.61                | 1.17                    | -1.04                  | -0.52                 |
| 12,014.29             | 92.46           | 87.80       | 7,401.68              | -827.33      | 4,538.17     | 4,530.02                | 0.69                    | -0.52                  | -0.45                 |
| 12,027.71             | 92.50           | 87.74       | 7,401.10              | -826.81      | 4,551.57     | 4,543.42                | 0.54                    | 0.30                   | -0.45                 |
| 12,041.14             | 92.55           | 87.67       | 7,400.51              | -826.27      | 4,564.98     | 4,556.83                | 0.64                    | 0.37                   | -0.52                 |
| 12,054.57             | 92.58           | 87.60       | 7,399.91              | -825.72      | 4,578.38     | 4,570.24                | 0.57                    | 0.22                   | -0.52                 |
| 12,068.00             | 92.58           | 87.51       | 7,399.30              | -825.15      | 4,591.79     | 4,583.65                | 0.67                    | 0.00                   | -0.67                 |



## Survey Report

|                  |                                  |                                     |                                       |
|------------------|----------------------------------|-------------------------------------|---------------------------------------|
| <b>Company:</b>  | Colgate Energy                   | <b>Local Co-ordinate Reference:</b> | Well (A04) Toro 22 Fed State Com 122H |
| <b>Project:</b>  | Eddy County, NM (N83-NME)        | <b>TVD Reference:</b>               | 3422+30 @ 3452.00usft                 |
| <b>Site:</b>     | Toro 22 Fed State Com            | <b>MD Reference:</b>                | 3422+30 @ 3452.00usft                 |
| <b>Well:</b>     | (A04) Toro 22 Fed State Com 122H | <b>North Reference:</b>             | Grid                                  |
| <b>Wellbore:</b> | 122H                             | <b>Survey Calculation Method:</b>   | Minimum Curvature                     |
| <b>Design:</b>   | 122H                             | <b>Database:</b>                    | EDM 5000.14 Single User Db            |

| 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) |  |
| 12,081.57                                                           | 92.49           | 87.40       | 7,398.70              | -824.54      | 4,605.33     | 4,597.20                | 1.05                    | -0.66                  | -0.81                 |  |
| 12,095.14                                                           | 92.40           | 87.29       | 7,398.12              | -823.92      | 4,618.87     | 4,610.75                | 1.05                    | -0.66                  | -0.81                 |  |
| 12,108.71                                                           | 92.28           | 87.16       | 7,397.57              | -823.26      | 4,632.41     | 4,624.30                | 1.30                    | -0.88                  | -0.96                 |  |
| 12,122.29                                                           | 92.22           | 87.03       | 7,397.04              | -822.57      | 4,645.97     | 4,637.86                | 1.05                    | -0.44                  | -0.96                 |  |
| 12,135.86                                                           | 92.20           | 86.91       | 7,396.51              | -821.86      | 4,659.51     | 4,651.40                | 0.90                    | -0.15                  | -0.88                 |  |
| 12,149.43                                                           | 92.22           | 86.78       | 7,395.99              | -821.11      | 4,673.05     | 4,664.95                | 0.97                    | 0.15                   | -0.96                 |  |
| 12,163.00                                                           | 92.25           | 86.67       | 7,395.46              | -820.33      | 4,686.58     | 4,678.49                | 0.84                    | 0.22                   | -0.81                 |  |
| 12,166.33                                                           | 92.26           | 86.65       | 7,395.33              | -820.14      | 4,689.91     | 4,681.82                | 0.77                    | 0.17                   | -0.75                 |  |
| <b>03-LTP(Toro-122H)</b>                                            |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 12,167.69                                                           | 92.26           | 86.63       | 7,395.28              | -820.06      | 4,691.26     | 4,683.17                | 0.77                    | 0.17                   | -0.75                 |  |
| <b>100FEL: 12167.69' MD, 4683.17' VS, 7395.28' TVD</b>              |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 12,175.00                                                           | 92.27           | 86.58       | 7,394.99              | -819.63      | 4,698.55     | 4,690.47                | 0.77                    | 0.17                   | -0.75                 |  |
| 12,187.00                                                           | 92.31           | 86.50       | 7,394.51              | -818.90      | 4,710.52     | 4,702.44                | 0.74                    | 0.33                   | -0.67                 |  |
| 12,199.00                                                           | 92.35           | 86.43       | 7,394.02              | -818.17      | 4,722.49     | 4,714.42                | 0.67                    | 0.33                   | -0.58                 |  |
| <b>Final MWD Survey: 12199.00' MD, 92.35°INC, 86.43°AZ</b>          |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 12,256.03                                                           | 92.35           | 86.43       | 7,391.68              | -814.62      | 4,779.36     | 4,771.32                | 0.00                    | 0.00                   | 0.00                  |  |
| <b>04-PBHL(Toro-122H)</b>                                           |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 12,257.00                                                           | 92.35           | 86.43       | 7,391.64              | -814.56      | 4,780.33     | 4,772.29                | 0.00                    | 0.00                   | 0.00                  |  |
| <b>PTB: 12257.00' MD, 92.35°INC, 86.43°AZ - 05-v5000(Toro-122H)</b> |                 |             |                       |              |              |                         |                         |                        |                       |  |

| Design Targets                                                                                                                              |               |              |            |              |              |                 |                |             |               |  |
|---------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------|------------|--------------|--------------|-----------------|----------------|-------------|---------------|--|
| Target Name<br>- hit/miss target<br>- Shape                                                                                                 | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude    | Longitude     |  |
| 01-FTP(Toro-122H)<br>- actual wellpath misses target center by 265.32usft at 7301.29usft MD (7170.12 TVD, -839.33 N, -114.84 E)<br>- Point  | 0.00          | 0.00         | 7,351.00   | -879.35      | -304.78      | 599,178.34      | 590,887.21     | 32.64708591 | -104.17234863 |  |
| 03-LTP(Toro-122H)<br>- actual wellpath misses target center by 21.68usft at 12166.33usft MD (7395.33 TVD, -820.14 N, 4689.91 E)<br>- Point  | 0.00          | 0.00         | 7,413.87   | -831.30      | 4,691.29     | 599,226.39      | 595,883.28     | 32.64719612 | -104.15611644 |  |
| 04-PBHL(Toro-122H)<br>- actual wellpath misses target center by 27.95usft at 12256.03usft MD (7391.68 TVD, -814.62 N, 4779.36 E)<br>- Point | 0.50          | 89.45        | 7,414.65   | -830.43      | 4,781.29     | 599,227.26      | 595,973.28     | 32.64719810 | -104.15582403 |  |



## Survey Report

|                  |                                  |                                     |                                       |
|------------------|----------------------------------|-------------------------------------|---------------------------------------|
| <b>Company:</b>  | Colgate Energy                   | <b>Local Co-ordinate Reference:</b> | Well (A04) Toro 22 Fed State Com 122H |
| <b>Project:</b>  | Eddy County, NM (N83-NME)        | <b>TVD Reference:</b>               | 3422+30 @ 3452.00usft                 |
| <b>Site:</b>     | Toro 22 Fed State Com            | <b>MD Reference:</b>                | 3422+30 @ 3452.00usft                 |
| <b>Well:</b>     | (A04) Toro 22 Fed State Com 122H | <b>North Reference:</b>             | Grid                                  |
| <b>Wellbore:</b> | 122H                             | <b>Survey Calculation Method:</b>   | Minimum Curvature                     |
| <b>Design:</b>   | 122H                             | <b>Database:</b>                    | EDM 5000.14 Single User Db            |

| Formations            |                       |                    |           |         |                   |  |
|-----------------------|-----------------------|--------------------|-----------|---------|-------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Name               | Lithology | Dip (°) | Dip Direction (°) |  |
| 229.01                | 229.00                | Rustler            |           |         |                   |  |
| 285.01                | 285.00                | Top of Salt        |           |         |                   |  |
| 570.01                | 570.00                | Base of Salt       |           |         |                   |  |
| 781.04                | 781.00                | Yates              |           |         |                   |  |
| 3,092.29              | 3,077.00              | DLWR Mnt. Group    |           |         |                   |  |
| 3,392.87              | 3,372.00              | Bone Sping Lime    |           |         |                   |  |
| 6,268.89              | 6,202.00              | 1st Bone Spring SD |           |         |                   |  |
| 6,370.97              | 6,302.00              | 2nd Bone Spring LM |           |         |                   |  |
| 7,430.90              | 7,257.00              | 2nd Bone Spring SD |           |         |                   |  |

| Design Annotations    |                       |                   |              |                                                     |  |
|-----------------------|-----------------------|-------------------|--------------|-----------------------------------------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates |              |                                                     |  |
|                       |                       | +N/-S (usft)      | +E/-W (usft) | Comment                                             |  |
| 6,876.00              | 6,800.33              | -766.43           | -288.43      | KOP: 6876.00' MD, -295.77' VS, 6800.33' TVD         |  |
| 7,778.00              | 7,346.40              | -874.90           | 305.49       | EOC: 7778.00' MD, 297.08' VS, 7346.40' TVD          |  |
| 12,167.69             | 7,395.28              | -820.06           | 4,691.26     | 100FEL: 12167.69' MD, 4683.17' VS, 7395.28' TVD     |  |
| 12,199.00             | 7,394.02              | -818.17           | 4,722.49     | Final MWD Survey: 12199.00' MD, 92.35°INC, 86.43°AZ |  |
| 12,257.00             | 7,391.64              | -814.56           | 4,780.33     | PTB: 12257.00' MD, 92.35°INC, 86.43°AZ              |  |

|                   |                    |             |
|-------------------|--------------------|-------------|
| 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 Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**

1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

ACKNOWLEDGMENTS

Action 118189

**ACKNOWLEDGMENTS**

|                                                                                         |                                                    |
|-----------------------------------------------------------------------------------------|----------------------------------------------------|
| Operator:<br>COLGATE OPERATING, LLC<br>300 North Marienfeld Street<br>Midland, TX 79701 | OGRID:<br>371449                                   |
|                                                                                         | Action Number:<br>118189                           |
|                                                                                         | Action Type:<br>[C-104] Completion Packet (C-104C) |

**ACKNOWLEDGMENTS**

|                                     |                                                                                                                    |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | I hereby certify that the required Water Use Report has been, or will be, submitted for this wells completion.     |
| <input checked="" type="checkbox"/> | I hereby certify that the required FracFocus disclosure has been, or will be, submitted for this wells completion. |

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**Oil Conservation Division**  
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CONDITIONS  
  
Action 118189

CONDITIONS

|                                                                                         |                                                    |
|-----------------------------------------------------------------------------------------|----------------------------------------------------|
| Operator:<br>COLGATE OPERATING, LLC<br>300 North Marienfeld Street<br>Midland, TX 79701 | OGRID:<br>371449                                   |
|                                                                                         | Action Number:<br>118189                           |
|                                                                                         | Action Type:<br>[C-104] Completion Packet (C-104C) |

CONDITIONS

| Created By | Condition                       | Condition Date |
|------------|---------------------------------|----------------|
| jagarcia   | See corrected property code     | 6/30/2022      |
| jagarcia   | RT expires 90 days from 6/30/22 | 6/30/2022      |