

DISTRICT I  
1625 N. French Dr., Hobbs, N.M. 88240  
Phone: (505) 393-6161 Fax: (505) 393-0720

DISTRICT II  
811 S. First St., Artesia, N.M. 88210  
Phone: (505) 748-1283 Fax: (505) 748-9720

DISTRICT III  
1000 Rio Brazos Rd., Aztec, N.M. 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

Form C-102  
Revised August 1, 2011

OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Submit one copy to appropriate  
District Office

☒ AMENDED REPORT

☒ AS DRILLED

WELL LOCATION AND ACREAGE DEDICATION PLAT

|                                         |                                                           |                                 |                                                    |
|-----------------------------------------|-----------------------------------------------------------|---------------------------------|----------------------------------------------------|
| <sup>1</sup> API Number<br>30-043-21209 |                                                           | <sup>2</sup> Pool Code<br>13379 | <sup>3</sup> Pool Name<br>COUNSELORS GALLUP-DAKOTA |
| <sup>4</sup> Property Code<br>313261    | <sup>5</sup> Property Name<br>GALLO CANYON UNIT P26-2306  |                                 | <sup>6</sup> Well Number<br>02H                    |
| <sup>7</sup> OGRID No.<br>282327        | <sup>8</sup> Operator Name<br>ENCANA OIL & GAS (USA) INC. |                                 | <sup>9</sup> Elevation<br>6867.5'                  |

<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   |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|----------|
| P             | 26      | 23N      | 6W    |         | 253'          | SOUTH            | 939'          | EAST           | SANDOVAL |

<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   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------|-------------------------------|---------|----------------------------------|------------------|--------------------------------------------------------------|----------------|----------|
| P                                                                                                                                                        | 36      | 23N      | 6W                            |         | 366'                             | SOUTH            | 366'                                                         | EAST           | SANDOVAL |
| <sup>12</sup> Dedicated Acres<br>5,120 Acres Sec. 22-26, 34-36 - Undivided Unit<br>Penetrated Spacing Units;<br>S/2 & NW Sec. 36; NE Sec. 35 - 640 Acres |         |          | <sup>13</sup> Joint or Infill |         | <sup>14</sup> Consolidation Code |                  | <sup>15</sup> Order No.<br>R-13718-A (5,120 Acres) Committed |                |          |

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

16

OIL CONS. DIV. DIST. 3

JUN 04 2015

26

35

36

WH 253' 939' 00"

BH 366' 366'

WELL FLAG  
LAT. 36.189561° N (NAD83)  
LONG. 107.432061° W (NAD83)  
LAT. 36.189547° N (NAD27)  
LONG. 107.431458° W (NAD27)

POINT OF ENTRY  
LAT. 36.189394° N (NAD83)  
LONG. 107.430181° W (NAD83)  
LAT. 36.189380° N (NAD27)  
LONG. 107.429577° W (NAD27)

BOTTOM HOLE  
LAT. 36.175006° N (NAD83)  
LONG. 107.412323° W (NAD83)  
LAT. 36.174992° N (NAD27)  
LONG. 107.411720° W (NAD27)

HORIZONTAL DRILL  
S 45°25'14" E 7430.26'

83°59'06" E 558.27'

89°19' W 5243.04' (R)  
89°32'07" W 5245.35' (M)

89°20' W 5255.58' (R)  
89°33'48" W 5257.78' (M)

89°03'25" W 5239.72' (M)  
88°52' W 5239.08' (R)

00°08'36" W 5333.20' (M)  
0°05' W 5297.82' (R)

0°10' W 5297.82' (R)  
0°23'33" W 5298.74' (M)

0°11'23" W 5344.82' (R)  
0°04' E 5344.68' (R)

FND 3 1/2" BC  
BLM 1948

FND 4" BC  
BLM 1948

<sup>17</sup> 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.

*Katie Wegner* 4/2/15  
Signature Date

Katie Wegner  
Printed Name

Katie.Wegner@encana.com  
E-mail Address

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.

APRIL 8, 2015  
Date of Survey

Signature and Seal of Professional Surveyor:

HENRY P. BROADHURST  
NEW MEXICO  
1393  
05/05/2015  
PROFESSIONAL SURVEYOR

AV

12

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1220 South St. Francis Dr.  
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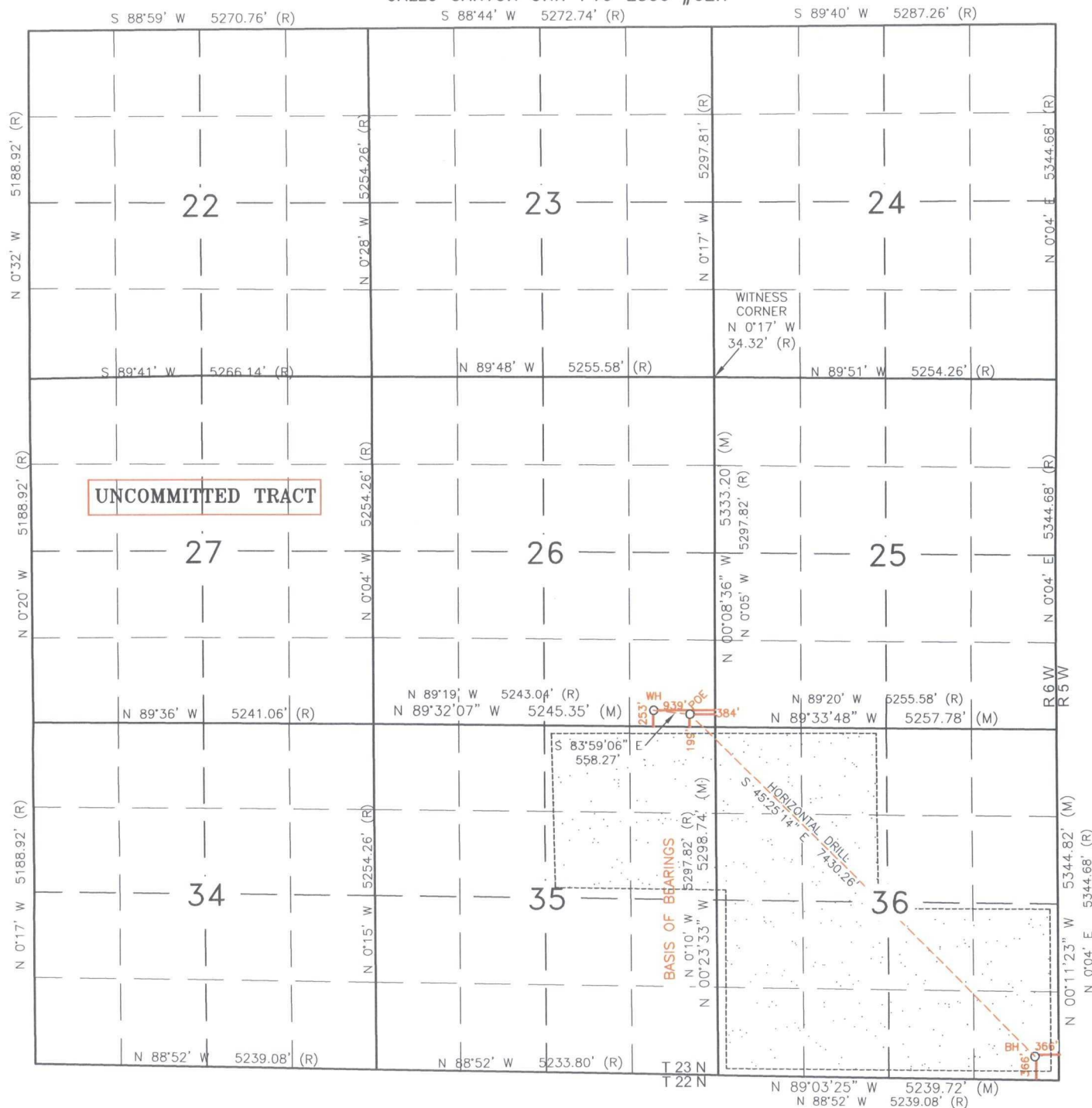
Submit one copy to appropriate  
District Office

☒ AMENDED REPORT

☒ AS DRILLED

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

ENCANA OIL & GAS (USA) INC.  
GALLO CANYON UNIT P16-2306 #02H

**WELL FLAG**

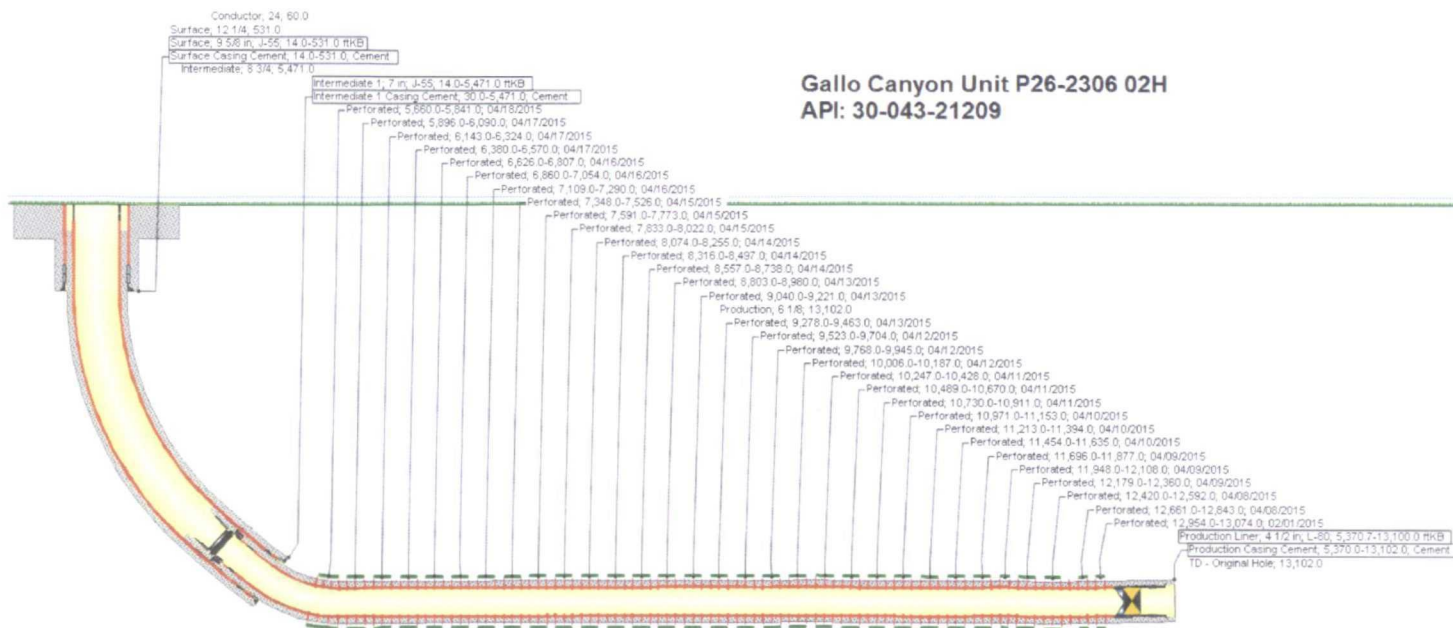
LAT. 36.189561° N (NAD83)  
LONG. 107.432061° W (NAD83)  
LAT. 36.189547° N (NAD27)  
LONG. 107.431458° W (NAD27)

**POINT OF ENTRY**

LAT. 36.189394° N (NAD83)  
LONG. 107.430181° W (NAD83)  
LAT. 36.189380° N (NAD27)  
LONG. 107.429577° W (NAD27)

**BOTTOM HOLE**

LAT. 36.175006° N (NAD83)  
LONG. 107.412323° W (NAD83)  
LAT. 36.174992° N (NAD27)  
LONG. 107.411720° W (NAD27)



OIL CONS. DIV DIST. 3

JUN 04 2015

**DEVIATION SURVEYS**  
**Gallo Canyon Unit P26-2306 02H**  
**30-043-21209**

CONFIDENTIAL

| MD (Feet) | Inclination<br>(Degree) |
|-----------|-------------------------|
| 372'      | 0.27                    |
| 758'      | 0.32                    |
| 1074'     | 0.34                    |
| 1379'     | 0.84                    |
| 1681'     | 0.44                    |
| 1984'     | 0.50                    |
| 2288'     | 0.51                    |
| 2601'     | 0.18                    |
| 2917'     | 0.38                    |
| 3233'     | 0.59                    |
| 3549'     | 0.69                    |
| 3864'     | 0.50                    |
| 4180'     | 0.88                    |
| 4433'     | 4.40                    |

OIL CONS. DIV DIST. 3

JUN 04 2015

**OPERATOR CERTIFICATION**

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Cristi Bauer  
Cristi Bauer, Regulatory Analyst

6/2/15  
Date

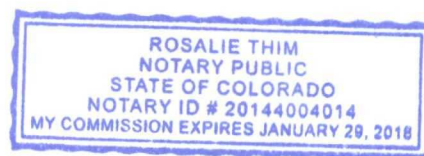
**ACKNOWLEDGMENT**

State of Colorado  
City and County of Denver

This instrument was acknowledged before me on this 2<sup>nd</sup> day of June, 2015 by Cristi Bauer as Regulatory Analyst of Encana Oil & Gas (USA) Inc., authorized agent for Encana Oil & Gas (USA) Inc., on behalf of said corporation.

In witness whereof, I hereunto set my hand and official seal.

Notary Public Rosalie Thim  
My Commission Expires: 1/29/18





# **EnCana Oil & Gas (USA) Inc**

Sandoval County, NM

S26-T23N-R6W

GCU P26-2306 02H

OIL CONS. DIV DIST. 3

JUN 04 2015

Hz

Design: Hz

## **Standard Survey Report**

29 December, 2014



**Scientific Drilling**

## Scientific Drilling

## Survey Report



|                  |                            |                                     |                                            |
|------------------|----------------------------|-------------------------------------|--------------------------------------------|
| <b>Company:</b>  | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well GCU P26-2306 02H                      |
| <b>Project:</b>  | Sandoval County, NM        | <b>TVD Reference:</b>               | GL 6872' & RKB 15' @ 6887.00ft (Aztec 920) |
| <b>Site:</b>     | S26-T23N-R6W               | <b>MD Reference:</b>                | GL 6872' & RKB 15' @ 6887.00ft (Aztec 920) |
| <b>Well:</b>     | GCU P26-2306 02H           | <b>North Reference:</b>             | True                                       |
| <b>Wellbore:</b> | Hz                         | <b>Survey Calculation Method:</b>   | Minimum Curvature                          |
| <b>Design:</b>   | Hz                         | <b>Database:</b>                    | EDM 5000.1 Single User Db                  |

|                    |                           |                      |                |
|--------------------|---------------------------|----------------------|----------------|
| <b>Project</b>     | Sandoval County, NM       |                      |                |
| <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 Central Zone   |                      |                |

|                       |              |              |                   |                   |              |
|-----------------------|--------------|--------------|-------------------|-------------------|--------------|
| Site                  | S26-T23N-R6W |              |                   |                   |              |
| Site Position:        |              | Northing:    | 1,890,389.95 usft | Latitude:         | 36.1895580   |
| From:                 | Lat/Long     | Easting:     | 1,291,581.79 usft | Longitude:        | -107.4321730 |
| Position Uncertainty: | 0.00 ft      | Slot Radius: | 13.200 in         | Grid Convergence: | -0.70 °      |

|                      |                  |         |                     |                   |               |              |
|----------------------|------------------|---------|---------------------|-------------------|---------------|--------------|
| Well                 | GCU P26-2306 02H |         |                     |                   |               |              |
| Well Position        | +N/-S            | 0.00 ft | Northing:           | 1,890,392.87 usft | Latitude:     | 36.1895670   |
|                      | +E/-W            | 0.00 ft | Easting:            | 1,291,611.34 usft | Longitude:    | -107.4320730 |
| Position Uncertainty |                  | 0.00 ft | Wellhead Elevation: | ft                | Ground Level: | 6,872.00 ft  |

|                  |                   |                    |                        |                      |                            |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| <b>Wellbore</b>  | Hz                |                    |                        |                      |                            |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination (°)</b> | <b>Dip Angle (°)</b> | <b>Field Strength (nT)</b> |
|                  | BGGM2014          | 12/12/2014         | 9.35                   | 62.98                | 50,021                     |

|                          |                              |                   |                   |                      |      |
|--------------------------|------------------------------|-------------------|-------------------|----------------------|------|
| <b>Design</b>            | Hz                           |                   |                   |                      |      |
| <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) (ft)</b> | <b>+N/-S (ft)</b> | <b>+E/-W (ft)</b> | <b>Direction (°)</b> |      |
|                          | 0.00                         | 0.00              | 0.00              | 132.30               |      |

|                       |                |                          |                  |                              |  |
|-----------------------|----------------|--------------------------|------------------|------------------------------|--|
| <b>Survey Program</b> | <b>Date</b>    | 12/29/2014               |                  |                              |  |
| <b>From (ft)</b>      | <b>To (ft)</b> | <b>Survey (Wellbore)</b> | <b>Tool Name</b> | <b>Description</b>           |  |
| 182.00                | 13,102.00      | Survey #1 (Hz)           | SDI MWD          | SDI MWD - Standard ver 1.0.1 |  |

|                            |                        |                    |                            |                   |                   |                              |                              |                             |                            |
|----------------------------|------------------------|--------------------|----------------------------|-------------------|-------------------|------------------------------|------------------------------|-----------------------------|----------------------------|
| <b>Survey</b>              |                        |                    |                            |                   |                   |                              |                              |                             |                            |
| <b>Measured Depth (ft)</b> | <b>Inclination (°)</b> | <b>Azimuth (°)</b> | <b>Vertical Depth (ft)</b> | <b>+N/-S (ft)</b> | <b>+E/-W (ft)</b> | <b>Vertical Section (ft)</b> | <b>Dogleg Rate (°/100ft)</b> | <b>Build Rate (°/100ft)</b> | <b>Turn Rate (°/100ft)</b> |
| 0.00                       | 0.00                   | 0.00               | 0.00                       | 0.00              | 0.00              | 0.00                         | 0.00                         | 0.00                        | 0.00                       |
| 182.00                     | 0.34                   | 119.57             | 182.00                     | -0.27             | 0.47              | 0.53                         | 0.19                         | 0.19                        | 0.00                       |
| 246.00                     | 0.20                   | 172.44             | 246.00                     | -0.47             | 0.65              | 0.80                         | 0.42                         | -0.22                       | 82.61                      |
| 309.00                     | 0.31                   | 183.55             | 309.00                     | -0.75             | 0.65              | 0.99                         | 0.19                         | 0.17                        | 17.63                      |
| 372.00                     | 0.27                   | 181.37             | 372.00                     | -1.07             | 0.64              | 1.19                         | 0.07                         | -0.06                       | -3.46                      |
| 436.00                     | 0.32                   | 152.38             | 436.00                     | -1.38             | 0.72              | 1.46                         | 0.24                         | 0.08                        | -45.30                     |
| 568.00                     | 0.12                   | 173.32             | 568.00                     | -1.84             | 0.91              | 1.91                         | 0.16                         | -0.15                       | 15.86                      |
| 632.00                     | 0.29                   | 186.62             | 631.99                     | -2.07             | 0.89              | 2.05                         | 0.27                         | 0.27                        | 20.78                      |
| 695.00                     | 0.05                   | 305.03             | 694.99                     | -2.21             | 0.85              | 2.12                         | 0.50                         | -0.38                       | 187.95                     |
| 758.00                     | 0.32                   | 224.52             | 757.99                     | -2.32             | 0.71              | 2.09                         | 0.50                         | 0.43                        | -127.79                    |

# Scientific Drilling

## Survey Report



|                  |                            |                                     |                                            |
|------------------|----------------------------|-------------------------------------|--------------------------------------------|
| <b>Company:</b>  | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well GCU P26-2306 02H                      |
| <b>Project:</b>  | Sandoval County, NM        | <b>TVD Reference:</b>               | GL 6872' & RKB 15' @ 6887.00ft (Aztec 920) |
| <b>Site:</b>     | S26-T23N-R6W               | <b>MD Reference:</b>                | GL 6872' & RKB 15' @ 6887.00ft (Aztec 920) |
| <b>Well:</b>     | GCU P26-2306 02H           | <b>North Reference:</b>             | True                                       |
| <b>Wellbore:</b> | Hz                         | <b>Survey Calculation Method:</b>   | Minimum Curvature                          |
| <b>Design:</b>   | Hz                         | <b>Database:</b>                    | EDM 5000.1 Single User Db                  |

| Survey              |                 |             |                     |            |            |                       |                       |                      |                     |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 821.00              | 0.46            | 220.35      | 820.99              | -2.64      | 0.42       | 2.09                  | 0.23                  | 0.22                 | -6.62               |
| 884.00              | 0.26            | 246.84      | 883.99              | -2.89      | 0.13       | 2.04                  | 0.41                  | -0.32                | 42.05               |
| 948.00              | 0.30            | 263.27      | 947.99              | -2.97      | -0.17      | 1.87                  | 0.14                  | 0.06                 | 25.67               |
| 1,011.00            | 0.53            | 228.39      | 1,010.99            | -3.18      | -0.56      | 1.73                  | 0.53                  | 0.37                 | -55.37              |
| 1,074.00            | 0.34            | 271.49      | 1,073.99            | -3.37      | -0.96      | 1.56                  | 0.58                  | -0.30                | 68.41               |
| 1,137.00            | 0.34            | 232.11      | 1,136.99            | -3.48      | -1.29      | 1.38                  | 0.36                  | 0.00                 | -62.51              |
| 1,199.00            | 0.63            | 229.00      | 1,198.98            | -3.81      | -1.70      | 1.31                  | 0.47                  | 0.47                 | -5.02               |
| 1,259.00            | 0.75            | 229.15      | 1,258.98            | -4.29      | -2.24      | 1.23                  | 0.20                  | 0.20                 | 0.25                |
| 1,319.00            | 0.27            | 288.38      | 1,318.98            | -4.50      | -2.67      | 1.05                  | 1.09                  | -0.80                | 98.72               |
| 1,379.00            | 0.84            | 338.33      | 1,378.97            | -4.05      | -2.97      | 0.53                  | 1.16                  | 0.95                 | 83.25               |
| 1,439.00            | 0.62            | 323.51      | 1,438.97            | -3.38      | -3.33      | -0.19                 | 0.48                  | -0.37                | -24.70              |
| 1,500.00            | 0.20            | 115.06      | 1,499.97            | -3.16      | -3.43      | -0.41                 | 1.31                  | -0.69                | 248.44              |
| 1,560.00            | 0.09            | 33.43       | 1,559.97            | -3.16      | -3.31      | -0.32                 | 0.35                  | -0.18                | -136.05             |
| 1,621.00            | 0.39            | 234.33      | 1,620.97            | -3.24      | -3.45      | -0.37                 | 0.78                  | 0.49                 | -260.82             |
| 1,681.00            | 0.44            | 230.09      | 1,680.97            | -3.51      | -3.79      | -0.44                 | 0.10                  | 0.08                 | -7.07               |
| 1,742.00            | 0.34            | 206.70      | 1,741.97            | -3.82      | -4.05      | -0.43                 | 0.30                  | -0.16                | -38.34              |
| 1,802.00            | 0.51            | 39.99       | 1,801.96            | -3.77      | -3.96      | -0.39                 | 1.41                  | 0.28                 | -277.85             |
| 1,863.00            | 0.77            | 47.50       | 1,862.96            | -3.29      | -3.48      | -0.36                 | 0.45                  | 0.43                 | 12.31               |
| 1,924.00            | 0.84            | 43.45       | 1,923.95            | -2.69      | -2.87      | -0.32                 | 0.15                  | 0.11                 | -6.64               |
| 1,984.00            | 0.50            | 53.00       | 1,983.95            | -2.21      | -2.36      | -0.26                 | 0.59                  | -0.57                | 15.92               |
| 2,045.00            | 0.69            | 19.42       | 2,044.95            | -1.70      | -2.03      | -0.35                 | 0.64                  | 0.31                 | -55.05              |
| 2,105.00            | 0.44            | 42.47       | 2,104.94            | -1.19      | -1.75      | -0.49                 | 0.56                  | -0.42                | 38.42               |
| 2,166.00            | 0.57            | 31.61       | 2,165.94            | -0.76      | -1.43      | -0.55                 | 0.26                  | 0.21                 | -17.80              |
| 2,227.00            | 0.63            | 26.19       | 2,226.94            | -0.20      | -1.13      | -0.70                 | 0.14                  | 0.10                 | -8.89               |
| 2,288.00            | 0.51            | 30.94       | 2,287.94            | 0.33       | -0.84      | -0.84                 | 0.21                  | -0.20                | 7.79                |
| 2,348.00            | 0.44            | 33.57       | 2,347.93            | 0.75       | -0.58      | -0.93                 | 0.12                  | -0.12                | 4.38                |
| 2,411.00            | 0.29            | 339.67      | 2,410.93            | 1.10       | -0.50      | -1.11                 | 0.57                  | -0.24                | -85.56              |
| 2,474.00            | 0.26            | 311.95      | 2,473.93            | 1.35       | -0.66      | -1.39                 | 0.21                  | -0.05                | -44.00              |
| 2,537.00            | 0.24            | 126.24      | 2,536.93            | 1.36       | -0.66      | -1.41                 | 0.79                  | -0.03                | 276.65              |
| 2,601.00            | 0.18            | 167.95      | 2,600.93            | 1.19       | -0.53      | -1.19                 | 0.25                  | -0.09                | 65.17               |
| 2,664.00            | 0.47            | 112.53      | 2,663.93            | 0.99       | -0.27      | -0.87                 | 0.63                  | 0.46                 | -87.97              |
| 2,727.00            | 0.44            | 76.65       | 2,726.93            | 0.95       | 0.20       | -0.49                 | 0.45                  | -0.05                | -56.95              |
| 2,790.00            | 0.63            | 117.82      | 2,789.93            | 0.84       | 0.75       | -0.02                 | 0.66                  | 0.30                 | 65.35               |
| 2,854.00            | 0.63            | 117.16      | 2,853.92            | 0.52       | 1.37       | 0.66                  | 0.01                  | 0.00                 | -1.03               |
| 2,917.00            | 0.38            | 84.85       | 2,916.92            | 0.38       | 1.89       | 1.14                  | 0.59                  | -0.40                | -51.29              |
| 2,980.00            | 0.42            | 140.95      | 2,979.92            | 0.22       | 2.24       | 1.51                  | 0.60                  | 0.06                 | 89.05               |
| 3,043.00            | 0.66            | 141.62      | 3,042.92            | -0.25      | 2.61       | 2.10                  | 0.38                  | 0.38                 | 1.06                |
| 3,107.00            | 0.59            | 156.76      | 3,106.91            | -0.84      | 2.97       | 2.76                  | 0.28                  | -0.11                | 23.66               |
| 3,170.00            | 0.50            | 151.75      | 3,169.91            | -1.38      | 3.23       | 3.31                  | 0.16                  | -0.14                | -7.95               |
| 3,233.00            | 0.59            | 177.02      | 3,232.91            | -1.94      | 3.37       | 3.80                  | 0.40                  | 0.14                 | 40.11               |
| 3,296.00            | 0.62            | 175.89      | 3,295.90            | -2.61      | 3.42       | 4.28                  | 0.05                  | 0.05                 | -1.79               |
| 3,359.00            | 0.58            | 171.85      | 3,358.90            | -3.26      | 3.49       | 4.77                  | 0.09                  | -0.06                | -6.41               |
| 3,423.00            | 0.47            | 246.65      | 3,422.90            | -3.69      | 3.29       | 4.92                  | 1.01                  | -0.17                | 116.88              |
| 3,486.00            | 0.79            | 289.46      | 3,485.89            | -3.65      | 2.64       | 4.41                  | 0.87                  | 0.51                 | 67.95               |



# Scientific Drilling

## Survey Report



|                  |                            |                                     |                                            |
|------------------|----------------------------|-------------------------------------|--------------------------------------------|
| <b>Company:</b>  | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well GCU P26-2306 02H                      |
| <b>Project:</b>  | Sandoval County, NM        | <b>TVD Reference:</b>               | GL 6872' & RKB 15' @ 6887.00ft (Aztec 920) |
| <b>Site:</b>     | S26-T23N-R6W               | <b>MD Reference:</b>                | GL 6872' & RKB 15' @ 6887.00ft (Aztec 920) |
| <b>Well:</b>     | GCU P26-2306 02H           | <b>North Reference:</b>             | True                                       |
| <b>Wellbore:</b> | Hz                         | <b>Survey Calculation Method:</b>   | Minimum Curvature                          |
| <b>Design:</b>   | Hz                         | <b>Database:</b>                    | EDM 5000.1 Single User Db                  |

| Survey              |                 |             |                     |            |            |                       |                       |                      |                     |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 3,549.00            | 0.69            | 275.20      | 3,548.89            | -3.47      | 1.86       | 3.71                  | 0.33                  | -0.16                | -22.63              |
| 3,612.00            | 0.61            | 289.73      | 3,611.88            | -3.32      | 1.16       | 3.09                  | 0.29                  | -0.13                | 23.06               |
| 3,675.00            | 0.79            | 273.05      | 3,674.88            | -3.18      | 0.41       | 2.45                  | 0.43                  | 0.29                 | -26.48              |
| 3,738.00            | 0.51            | 255.85      | 3,737.88            | -3.23      | -0.29      | 1.96                  | 0.54                  | -0.44                | -27.30              |
| 3,801.00            | 0.60            | 285.37      | 3,800.87            | -3.21      | -0.88      | 1.51                  | 0.47                  | 0.14                 | 46.86               |
| 3,864.00            | 0.50            | 254.24      | 3,863.87            | -3.20      | -1.46      | 1.07                  | 0.49                  | -0.16                | -49.41              |
| 3,927.00            | 0.64            | 279.99      | 3,926.87            | -3.21      | -2.08      | 0.63                  | 0.46                  | 0.22                 | 40.87               |
| 3,991.00            | 0.94            | 267.95      | 3,990.86            | -3.17      | -2.95      | -0.05                 | 0.53                  | 0.47                 | -18.81              |
| 4,054.00            | 0.88            | 250.16      | 4,053.85            | -3.35      | -3.92      | -0.65                 | 0.46                  | -0.10                | -28.24              |
| 4,117.00            | 0.88            | 258.32      | 4,116.85            | -3.61      | -4.85      | -1.16                 | 0.20                  | 0.00                 | 12.95               |
| 4,180.00            | 0.88            | 260.07      | 4,179.84            | -3.79      | -5.80      | -1.74                 | 0.04                  | 0.00                 | 2.78                |
| 4,243.00            | 1.14            | 260.89      | 4,242.83            | -3.98      | -6.90      | -2.43                 | 0.41                  | 0.41                 | 1.30                |
| 4,307.00            | 1.08            | 248.06      | 4,306.82            | -4.30      | -8.09      | -3.09                 | 0.40                  | -0.09                | -20.05              |
| 4,370.00            | 0.70            | 313.64      | 4,369.81            | -4.26      | -8.92      | -3.73                 | 1.61                  | -0.60                | 104.10              |
| 4,401.00            | 2.05            | 18.29       | 4,400.80            | -3.60      | -8.88      | -4.14                 | 6.00                  | 4.35                 | 208.55              |
| 4,433.00            | 4.40            | 25.87       | 4,432.75            | -1.95      | -8.16      | -4.72                 | 7.45                  | 7.34                 | 23.69               |
| 4,464.00            | 7.18            | 24.62       | 4,463.59            | 0.88       | -6.84      | -5.65                 | 8.98                  | 8.97                 | -4.03               |
| 4,496.00            | 9.95            | 21.96       | 4,495.23            | 5.26       | -4.97      | -7.22                 | 8.74                  | 8.66                 | -8.31               |
| 4,528.00            | 12.51           | 23.03       | 4,526.61            | 11.02      | -2.58      | -9.32                 | 8.03                  | 8.00                 | 3.34                |
| 4,559.00            | 15.11           | 24.09       | 4,556.71            | 17.80      | 0.38       | -11.69                | 8.43                  | 8.39                 | 3.42                |
| 4,591.00            | 17.37           | 20.70       | 4,587.44            | 26.07      | 3.77       | -14.76                | 7.66                  | 7.06                 | -10.59              |
| 4,622.00            | 19.70           | 18.11       | 4,616.83            | 35.37      | 7.04       | -18.60                | 7.97                  | 7.52                 | -8.35               |
| 4,654.00            | 22.10           | 18.31       | 4,646.72            | 46.21      | 10.60      | -23.26                | 7.50                  | 7.50                 | 0.63                |
| 4,685.00            | 24.34           | 20.03       | 4,675.21            | 57.75      | 14.62      | -28.05                | 7.55                  | 7.23                 | 5.55                |
| 4,717.00            | 24.94           | 25.40       | 4,704.30            | 70.04      | 19.78      | -32.51                | 7.24                  | 1.88                 | 16.78               |
| 4,749.00            | 25.52           | 32.43       | 4,733.25            | 81.96      | 26.37      | -35.66                | 9.53                  | 1.81                 | 21.97               |
| 4,780.00            | 25.62           | 39.69       | 4,761.22            | 92.76      | 34.23      | -37.11                | 10.11                 | 0.32                 | 23.42               |
| 4,812.00            | 26.02           | 46.97       | 4,790.03            | 102.87     | 43.78      | -36.85                | 9.98                  | 1.25                 | 22.75               |
| 4,843.00            | 26.04           | 54.65       | 4,817.90            | 111.45     | 54.31      | -34.84                | 10.87                 | 0.06                 | 24.77               |
| 4,875.00            | 26.13           | 61.57       | 4,846.64            | 118.87     | 66.24      | -31.02                | 9.51                  | 0.28                 | 21.63               |
| 4,906.00            | 26.13           | 69.28       | 4,874.48            | 124.54     | 78.63      | -25.66                | 10.95                 | 0.00                 | 24.87               |
| 4,938.00            | 26.66           | 75.05       | 4,903.15            | 128.88     | 92.16      | -18.58                | 8.18                  | 1.66                 | 18.03               |
| 4,970.00            | 27.88           | 80.76       | 4,931.60            | 131.94     | 106.48     | -10.04                | 9.02                  | 3.81                 | 17.84               |
| 5,001.00            | 29.92           | 83.59       | 4,958.74            | 133.96     | 121.32     | -0.43                 | 7.92                  | 6.58                 | 9.13                |
| 5,033.00            | 32.11           | 86.43       | 4,986.16            | 135.39     | 137.74     | 10.76                 | 8.23                  | 6.84                 | 8.88                |
| 5,064.00            | 32.90           | 90.94       | 5,012.31            | 135.76     | 154.39     | 22.81                 | 8.22                  | 2.55                 | 14.55               |
| 5,096.00            | 33.55           | 96.18       | 5,039.09            | 134.67     | 171.87     | 36.48                 | 9.20                  | 2.03                 | 16.38               |
| 5,128.00            | 34.98           | 100.06      | 5,065.53            | 132.11     | 189.70     | 51.39                 | 8.16                  | 4.47                 | 12.13               |
| 5,159.00            | 35.77           | 104.56      | 5,090.82            | 128.28     | 207.22     | 66.92                 | 8.78                  | 2.55                 | 14.52               |
| 5,191.00            | 37.09           | 107.67      | 5,116.56            | 123.00     | 225.47     | 83.97                 | 7.09                  | 4.13                 | 9.72                |
| 5,222.00            | 39.30           | 109.42      | 5,140.93            | 116.90     | 243.64     | 101.52                | 7.94                  | 7.13                 | 5.65                |
| 5,254.00            | 41.40           | 110.53      | 5,165.31            | 109.82     | 263.10     | 120.68                | 6.94                  | 6.56                 | 3.47                |
| 5,285.00            | 43.46           | 112.88      | 5,188.19            | 102.07     | 282.53     | 140.26                | 8.38                  | 6.65                 | 7.58                |



**Scientific Drilling**  
Survey Report



|                  |                            |                                     |                                            |
|------------------|----------------------------|-------------------------------------|--------------------------------------------|
| <b>Company:</b>  | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well GCU P26-2306 02H                      |
| <b>Project:</b>  | Sandoval County, NM        | <b>TVD Reference:</b>               | GL 6872' & RKB 15' @ 6887.00ft (Aztec 920) |
| <b>Site:</b>     | S26-T23N-R6W               | <b>MD Reference:</b>                | GL 6872' & RKB 15' @ 6887.00ft (Aztec 920) |
| <b>Well:</b>     | GCU P26-2306 02H           | <b>North Reference:</b>             | True                                       |
| <b>Wellbore:</b> | Hz                         | <b>Survey Calculation Method:</b>   | Minimum Curvature                          |
| <b>Design:</b>   | Hz                         | <b>Database:</b>                    | EDM 5000.1 Single User Db                  |

| Survey              |                 |             |                     |           |           |                       |                       |                      |                     |
|---------------------|-----------------|-------------|---------------------|-----------|-----------|-----------------------|-----------------------|----------------------|---------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N-S (ft) | +E-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 5,317.00            | 45.68           | 114.92      | 5,210.99            | 92.97     | 303.05    | 161.57                | 8.25                  | 6.94                 | 6.38                |
| 5,349.00            | 48.43           | 115.27      | 5,232.79            | 83.04     | 324.26    | 183.94                | 8.63                  | 8.59                 | 1.09                |
| 5,380.00            | 51.07           | 114.96      | 5,252.82            | 73.00     | 345.69    | 206.55                | 8.55                  | 8.52                 | -1.00               |
| 5,412.00            | 53.76           | 114.98      | 5,272.33            | 62.29     | 368.67    | 230.75                | 8.41                  | 8.41                 | 0.06                |
| 5,443.00            | 55.61           | 117.27      | 5,290.26            | 51.15     | 391.38    | 255.04                | 8.48                  | 5.97                 | 7.39                |
| 5,475.00            | 58.21           | 119.92      | 5,307.73            | 38.31     | 414.91    | 281.08                | 10.68                 | 8.13                 | 8.28                |
| 5,506.00            | 61.69           | 121.51      | 5,323.25            | 24.60     | 437.97    | 307.37                | 12.07                 | 11.23                | 5.13                |
| 5,526.00            | 63.50           | 122.67      | 5,332.45            | 15.17     | 453.01    | 324.84                | 10.41                 | 9.05                 | 5.80                |
| 5,541.00            | 65.01           | 123.60      | 5,338.97            | 7.79      | 464.32    | 338.18                | 11.51                 | 10.07                | 6.20                |
| 5,572.00            | 68.56           | 124.86      | 5,351.19            | -8.24     | 487.87    | 366.38                | 12.05                 | 11.45                | 4.06                |
| 5,604.00            | 71.41           | 126.08      | 5,362.14            | -25.69    | 512.35    | 396.23                | 9.60                  | 8.91                 | 3.81                |
| 5,635.00            | 74.93           | 127.37      | 5,371.11            | -43.43    | 536.13    | 425.76                | 12.03                 | 11.35                | 4.16                |
| 5,667.00            | 78.30           | 129.14      | 5,378.52            | -62.70    | 560.57    | 456.81                | 11.83                 | 10.53                | 5.53                |
| 5,699.00            | 82.01           | 130.35      | 5,383.99            | -82.86    | 584.81    | 488.30                | 12.18                 | 11.59                | 3.78                |
| 5,730.00            | 84.51           | 131.89      | 5,387.63            | -103.11   | 607.99    | 519.07                | 9.45                  | 8.06                 | 4.97                |
| 5,762.00            | 86.17           | 132.39      | 5,390.23            | -124.50   | 631.64    | 550.97                | 5.42                  | 5.19                 | 1.56                |
| 5,794.00            | 86.35           | 133.45      | 5,392.32            | -146.25   | 655.03    | 582.90                | 3.35                  | 0.56                 | 3.31                |
| 5,815.75            | 87.59           | 134.05      | 5,393.47            | -161.27   | 670.72    | 604.61                | 6.33                  | 5.70                 | 2.76                |
| 5,857.00            | 89.93           | 135.18      | 5,394.36            | -190.23   | 700.07    | 645.81                | 6.30                  | 5.67                 | 2.74                |
| 5,920.00            | 90.81           | 134.78      | 5,393.95            | -234.76   | 744.63    | 708.74                | 1.53                  | 1.40                 | -0.63               |
| 5,983.00            | 91.72           | 134.64      | 5,392.56            | -279.07   | 789.39    | 771.67                | 1.46                  | 1.44                 | -0.22               |
| 6,046.00            | 91.92           | 135.02      | 5,390.56            | -323.46   | 834.05    | 834.58                | 0.68                  | 0.32                 | 0.60                |
| 6,110.00            | 90.47           | 135.83      | 5,389.23            | -369.04   | 878.96    | 898.46                | 2.60                  | -2.27                | 1.27                |
| 6,173.00            | 90.03           | 135.40      | 5,388.95            | -414.06   | 923.02    | 961.36                | 0.98                  | -0.70                | -0.68               |
| 6,236.00            | 89.83           | 134.15      | 5,389.03            | -458.44   | 967.74    | 1,024.30              | 2.01                  | -0.32                | -1.98               |
| 6,299.00            | 90.44           | 133.60      | 5,388.88            | -502.10   | 1,013.16  | 1,087.27              | 1.30                  | 0.97                 | -0.87               |
| 6,362.00            | 89.97           | 133.33      | 5,388.65            | -545.44   | 1,058.88  | 1,150.26              | 0.86                  | -0.75                | -0.43               |
| 6,426.00            | 88.55           | 135.09      | 5,389.48            | -590.06   | 1,104.75  | 1,214.21              | 3.53                  | -2.22                | 2.75                |
| 6,489.00            | 88.89           | 135.65      | 5,390.89            | -634.88   | 1,149.00  | 1,277.11              | 1.04                  | 0.54                 | 0.89                |
| 6,552.00            | 89.76           | 135.25      | 5,391.63            | -679.77   | 1,193.19  | 1,340.01              | 1.52                  | 1.38                 | -0.63               |
| 6,616.00            | 90.94           | 135.63      | 5,391.24            | -725.37   | 1,238.10  | 1,403.91              | 1.94                  | 1.84                 | 0.59                |
| 6,679.00            | 90.24           | 136.57      | 5,390.59            | -770.76   | 1,281.78  | 1,466.77              | 1.86                  | -1.11                | 1.49                |
| 6,742.00            | 90.74           | 136.47      | 5,390.05            | -816.48   | 1,325.13  | 1,529.59              | 0.81                  | 0.79                 | -0.16               |
| 6,805.00            | 89.76           | 136.49      | 5,389.78            | -862.16   | 1,368.51  | 1,592.43              | 1.56                  | -1.56                | 0.03                |
| 6,868.00            | 90.03           | 136.05      | 5,389.89            | -907.68   | 1,412.06  | 1,655.27              | 0.82                  | 0.43                 | -0.70               |
| 6,932.00            | 90.81           | 135.35      | 5,389.42            | -953.48   | 1,456.75  | 1,719.16              | 1.64                  | 1.22                 | -1.09               |
| 6,995.00            | 90.00           | 135.13      | 5,388.98            | -998.22   | 1,501.11  | 1,782.07              | 1.33                  | -1.29                | -0.35               |
| 7,058.00            | 90.57           | 135.66      | 5,388.66            | -1,043.07 | 1,545.35  | 1,844.98              | 1.24                  | 0.90                 | 0.84                |
| 7,121.00            | 89.83           | 136.50      | 5,388.44            | -1,088.45 | 1,589.05  | 1,907.84              | 1.78                  | -1.17                | 1.33                |
| 7,184.00            | 90.54           | 136.40      | 5,388.24            | -1,134.11 | 1,632.46  | 1,970.68              | 1.14                  | 1.13                 | -0.16               |
| 7,247.00            | 89.83           | 135.93      | 5,388.04            | -1,179.55 | 1,676.09  | 2,033.53              | 1.35                  | -1.13                | -0.75               |
| 7,311.00            | 90.37           | 135.53      | 5,387.93            | -1,225.38 | 1,720.76  | 2,097.42              | 1.05                  | 0.84                 | -0.63               |
| 7,374.00            | 89.70           | 134.75      | 5,387.89            | -1,270.04 | 1,765.20  | 2,160.34              | 1.63                  | -1.06                | -1.24               |

# Scientific Drilling

## Survey Report



|                  |                            |                                     |                                            |
|------------------|----------------------------|-------------------------------------|--------------------------------------------|
| <b>Company:</b>  | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well GCU P26-2306 02H                      |
| <b>Project:</b>  | Sandoval County, NM        | <b>TVD Reference:</b>               | GL 6872' & RKB 15' @ 6887.00ft (Aztec 920) |
| <b>Site:</b>     | S26-T23N-R6W               | <b>MD Reference:</b>                | GL 6872' & RKB 15' @ 6887.00ft (Aztec 920) |
| <b>Well:</b>     | GCU P26-2306 02H           | <b>North Reference:</b>             | True                                       |
| <b>Wellbore:</b> | Hz                         | <b>Survey Calculation Method:</b>   | Minimum Curvature                          |
| <b>Design:</b>   | Hz                         | <b>Database:</b>                    | EDM 5000.1 Single User Db                  |

| Survey              |                 |             |                     |            |            |                       |                       |                      |                     |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 7,437.00            | 89.97           | 134.39      | 5,388.07            | -1,314.25  | 1,810.08   | 2,223.29              | 0.71                  | 0.43                 | -0.57               |
| 7,500.00            | 90.00           | 134.90      | 5,388.09            | -1,358.52  | 1,854.90   | 2,286.24              | 0.81                  | 0.05                 | 0.81                |
| 7,564.00            | 90.71           | 134.58      | 5,387.69            | -1,403.57  | 1,900.36   | 2,350.18              | 1.22                  | 1.11                 | -0.50               |
| 7,627.00            | 89.80           | 134.44      | 5,387.41            | -1,447.73  | 1,945.29   | 2,413.13              | 1.46                  | -1.44                | -0.22               |
| 7,690.00            | 90.10           | 133.92      | 5,387.46            | -1,491.64  | 1,990.47   | 2,476.09              | 0.95                  | 0.48                 | -0.83               |
| 7,753.00            | 91.08           | 133.30      | 5,386.81            | -1,535.09  | 2,036.08   | 2,539.07              | 1.84                  | 1.56                 | -0.98               |
| 7,816.00            | 89.73           | 133.16      | 5,386.37            | -1,578.24  | 2,081.98   | 2,602.06              | 2.15                  | -2.14                | -0.22               |
| 7,880.00            | 89.39           | 134.49      | 5,386.86            | -1,622.55  | 2,128.15   | 2,666.04              | 2.14                  | -0.53                | 2.08                |
| 7,943.00            | 90.44           | 133.83      | 5,386.95            | -1,666.44  | 2,173.35   | 2,729.00              | 1.97                  | 1.67                 | -1.05               |
| 8,006.00            | 90.24           | 134.87      | 5,386.58            | -1,710.48  | 2,218.40   | 2,791.96              | 1.68                  | -0.32                | 1.65                |
| 8,069.00            | 90.34           | 135.65      | 5,386.26            | -1,755.23  | 2,262.74   | 2,854.87              | 1.25                  | 0.16                 | 1.24                |
| 8,133.00            | 90.91           | 135.00      | 5,385.56            | -1,800.73  | 2,307.73   | 2,918.78              | 1.35                  | 0.89                 | -1.02               |
| 8,196.00            | 90.48           | 134.95      | 5,384.80            | -1,845.26  | 2,352.30   | 2,981.71              | 0.69                  | -0.68                | -0.08               |
| 8,259.00            | 89.83           | 134.98      | 5,384.63            | -1,889.78  | 2,396.87   | 3,044.64              | 1.03                  | -1.03                | 0.05                |
| 8,322.00            | 90.24           | 134.94      | 5,384.59            | -1,934.29  | 2,441.45   | 3,107.57              | 0.65                  | 0.65                 | -0.06               |
| 8,386.00            | 89.63           | 135.36      | 5,384.66            | -1,979.67  | 2,486.59   | 3,171.49              | 1.16                  | -0.95                | 0.66                |
| 8,449.00            | 90.51           | 135.01      | 5,384.59            | -2,024.36  | 2,530.99   | 3,234.41              | 1.50                  | 1.40                 | -0.56               |
| 8,512.00            | 90.61           | 136.13      | 5,383.97            | -2,069.34  | 2,575.09   | 3,297.30              | 1.78                  | 0.16                 | 1.78                |
| 8,575.00            | 89.70           | 135.98      | 5,383.80            | -2,114.70  | 2,618.81   | 3,360.17              | 1.46                  | -1.44                | -0.24               |
| 8,638.00            | 90.37           | 135.56      | 5,383.76            | -2,159.85  | 2,662.75   | 3,423.05              | 1.26                  | 1.06                 | -0.67               |
| 8,702.00            | 89.87           | 135.16      | 5,383.63            | -2,205.38  | 2,707.72   | 3,486.96              | 1.00                  | -0.78                | -0.63               |
| 8,765.00            | 90.40           | 134.28      | 5,383.48            | -2,249.71  | 2,752.49   | 3,549.90              | 1.63                  | 0.84                 | -1.40               |
| 8,825.00            | 90.47           | 133.69      | 5,383.02            | -2,291.38  | 2,795.66   | 3,609.88              | 0.99                  | 0.12                 | -0.98               |
| 8,885.00            | 90.07           | 132.96      | 5,382.74            | -2,332.55  | 2,839.30   | 3,669.87              | 1.39                  | -0.67                | -1.22               |
| 8,946.00            | 90.10           | 132.65      | 5,382.65            | -2,374.00  | 2,884.06   | 3,730.86              | 0.51                  | 0.05                 | -0.51               |
| 9,006.00            | 89.87           | 133.25      | 5,382.67            | -2,414.88  | 2,927.97   | 3,790.86              | 1.07                  | -0.38                | 1.00                |
| 9,066.00            | 90.20           | 133.74      | 5,382.63            | -2,456.18  | 2,971.50   | 3,850.85              | 0.98                  | 0.55                 | 0.82                |
| 9,126.00            | 89.63           | 134.09      | 5,382.72            | -2,497.79  | 3,014.72   | 3,910.82              | 1.11                  | -0.95                | 0.58                |
| 9,187.00            | 89.73           | 135.01      | 5,383.06            | -2,540.58  | 3,058.19   | 3,971.77              | 1.52                  | 0.16                 | 1.51                |
| 9,247.00            | 90.00           | 135.31      | 5,383.20            | -2,583.13  | 3,100.50   | 4,031.70              | 0.67                  | 0.45                 | 0.50                |
| 9,263.00            | 90.04           | 135.47      | 5,383.19            | -2,594.52  | 3,111.74   | 4,047.67              | 1.03                  | 0.25                 | 1.00                |
| 9,323.00            | 89.83           | 136.11      | 5,383.26            | -2,637.52  | 3,153.57   | 4,107.56              | 1.12                  | -0.35                | 1.07                |
| 9,383.00            | 89.73           | 135.04      | 5,383.49            | -2,680.37  | 3,195.57   | 4,167.46              | 1.79                  | -0.17                | -1.78               |
| 9,444.00            | 90.03           | 134.05      | 5,383.62            | -2,723.16  | 3,239.04   | 4,228.42              | 1.70                  | 0.49                 | -1.62               |
| 9,504.00            | 90.24           | 134.45      | 5,383.48            | -2,765.03  | 3,282.02   | 4,288.38              | 0.75                  | 0.35                 | 0.67                |
| 9,564.00            | 89.83           | 136.49      | 5,383.44            | -2,807.80  | 3,324.10   | 4,348.29              | 3.47                  | -0.68                | 3.40                |
| 9,625.00            | 89.13           | 137.93      | 5,384.00            | -2,852.56  | 3,365.53   | 4,409.06              | 2.62                  | -1.15                | 2.36                |
| 9,685.00            | 89.19           | 137.60      | 5,384.88            | -2,896.98  | 3,405.86   | 4,468.78              | 0.56                  | 0.10                 | -0.55               |
| 9,746.00            | 90.44           | 137.27      | 5,385.07            | -2,941.91  | 3,447.12   | 4,529.53              | 2.12                  | 2.05                 | -0.54               |
| 9,806.00            | 90.57           | 136.69      | 5,384.54            | -2,985.77  | 3,488.05   | 4,589.33              | 0.99                  | 0.22                 | -0.97               |
| 9,867.00            | 91.04           | 135.35      | 5,383.69            | -3,029.66  | 3,530.41   | 4,650.19              | 2.33                  | 0.77                 | -2.20               |
| 9,928.00            | 91.51           | 134.60      | 5,382.33            | -3,072.76  | 3,573.55   | 4,711.11              | 1.45                  | 0.77                 | -1.23               |
| 9,988.00            | 90.91           | 135.97      | 5,381.06            | -3,115.39  | 3,615.75   | 4,771.02              | 2.49                  | -1.00                | 2.28                |
| 10,049.00           | 89.96           | 135.91      | 5,380.60            | -3,159.22  | 3,658.17   | 4,831.89              | 1.56                  | -1.56                | -0.10               |



**Scientific Drilling**  
Survey Report



|                  |                            |                                     |                                            |
|------------------|----------------------------|-------------------------------------|--------------------------------------------|
| <b>Company:</b>  | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well GCU P26-2306 02H                      |
| <b>Project:</b>  | Sandoval County, NM        | <b>TVD Reference:</b>               | GL 6872' & RKB 15' @ 6887.00ft (Aztec 920) |
| <b>Site:</b>     | S26-T23N-R6W               | <b>MD Reference:</b>                | GL 6872' & RKB 15' @ 6887.00ft (Aztec 920) |
| <b>Well:</b>     | GCU P26-2306 02H           | <b>North Reference:</b>             | True                                       |
| <b>Wellbore:</b> | Hz                         | <b>Survey Calculation Method:</b>   | Minimum Curvature                          |
| <b>Design:</b>   | Hz                         | <b>Database:</b>                    | EDM 5000.1 Single User Db                  |

| Survey              |                 |             |                     |            |            |                       |                       |                      |                     |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 10,109.00           | 90.00           | 134.64      | 5,380.62            | -3,201.85  | 3,700.39   | 4,891.81              | 2.12                  | 0.07                 | -2.12               |
| 10,170.00           | 90.37           | 133.46      | 5,380.42            | -3,244.26  | 3,744.23   | 4,952.78              | 2.03                  | 0.61                 | -1.93               |
| 10,231.00           | 90.37           | 132.31      | 5,380.03            | -3,285.78  | 3,788.93   | 5,013.77              | 1.89                  | 0.00                 | -1.89               |
| 10,292.00           | 89.90           | 133.89      | 5,379.89            | -3,327.45  | 3,833.47   | 5,074.76              | 2.70                  | -0.77                | 2.59                |
| 10,352.00           | 88.39           | 135.22      | 5,380.78            | -3,369.54  | 3,876.21   | 5,134.71              | 3.35                  | -2.52                | 2.22                |
| 10,414.00           | 88.18           | 134.02      | 5,382.64            | -3,413.07  | 3,920.32   | 5,196.63              | 1.96                  | -0.34                | -1.94               |
| 10,475.00           | 88.76           | 134.56      | 5,384.27            | -3,455.65  | 3,963.97   | 5,257.57              | 1.30                  | 0.95                 | 0.89                |
| 10,536.00           | 89.46           | 135.56      | 5,385.21            | -3,498.82  | 4,007.05   | 5,318.49              | 2.00                  | 1.15                 | 1.64                |
| 10,596.00           | 89.80           | 135.90      | 5,385.60            | -3,541.79  | 4,048.94   | 5,378.38              | 0.80                  | 0.57                 | 0.57                |
| 10,657.00           | 89.76           | 136.44      | 5,385.84            | -3,585.79  | 4,091.18   | 5,439.24              | 0.89                  | -0.07                | 0.89                |
| 10,718.00           | 90.20           | 137.75      | 5,385.86            | -3,630.47  | 4,132.71   | 5,500.03              | 2.27                  | 0.72                 | 2.15                |
| 10,778.00           | 90.71           | 137.44      | 5,385.38            | -3,674.77  | 4,173.17   | 5,559.77              | 0.99                  | 0.85                 | -0.52               |
| 10,839.00           | 90.47           | 137.40      | 5,384.75            | -3,719.69  | 4,214.44   | 5,620.52              | 0.40                  | -0.39                | -0.07               |
| 10,900.00           | 89.46           | 137.73      | 5,384.79            | -3,764.71  | 4,255.60   | 5,681.26              | 1.74                  | -1.66                | 0.54                |
| 10,960.00           | 89.29           | 137.33      | 5,385.44            | -3,808.96  | 4,296.11   | 5,741.01              | 0.72                  | -0.28                | -0.67               |
| 11,022.00           | 89.80           | 137.03      | 5,385.94            | -3,854.44  | 4,338.25   | 5,802.78              | 0.95                  | 0.82                 | -0.48               |
| 11,083.00           | 90.27           | 137.94      | 5,385.90            | -3,899.40  | 4,379.47   | 5,863.53              | 1.68                  | 0.77                 | 1.49                |
| 11,143.00           | 89.97           | 138.06      | 5,385.77            | -3,943.99  | 4,419.62   | 5,923.24              | 0.54                  | -0.50                | 0.20                |
| 11,204.00           | 89.63           | 136.88      | 5,385.99            | -3,988.94  | 4,460.85   | 5,983.99              | 2.01                  | -0.56                | -1.93               |
| 11,265.00           | 89.23           | 135.37      | 5,386.59            | -4,032.91  | 4,503.12   | 6,044.85              | 2.56                  | -0.66                | -2.48               |
| 11,326.00           | 89.83           | 134.32      | 5,387.09            | -4,075.92  | 4,546.37   | 6,105.78              | 1.98                  | 0.98                 | -1.72               |
| 11,387.00           | 90.13           | 134.21      | 5,387.11            | -4,118.50  | 4,590.06   | 6,166.75              | 0.52                  | 0.49                 | -0.18               |
| 11,448.00           | 90.13           | 133.89      | 5,386.98            | -4,160.91  | 4,633.90   | 6,227.72              | 0.52                  | 0.00                 | -0.52               |
| 11,508.00           | 90.34           | 133.64      | 5,386.73            | -4,202.41  | 4,677.23   | 6,287.70              | 0.54                  | 0.35                 | -0.42               |
| 11,569.00           | 90.03           | 133.62      | 5,386.53            | -4,244.50  | 4,721.38   | 6,348.68              | 0.51                  | -0.51                | -0.03               |
| 11,632.00           | 90.37           | 133.57      | 5,386.31            | -4,287.94  | 4,767.01   | 6,411.67              | 0.55                  | 0.54                 | -0.08               |
| 11,695.00           | 91.38           | 137.78      | 5,385.35            | -4,333.00  | 4,811.01   | 6,474.53              | 6.87                  | 1.60                 | 6.68                |
| 11,758.00           | 90.47           | 137.28      | 5,384.33            | -4,379.46  | 4,853.54   | 6,537.26              | 1.65                  | -1.44                | -0.79               |
| 11,821.00           | 89.33           | 136.66      | 5,384.44            | -4,425.51  | 4,896.53   | 6,600.05              | 2.06                  | -1.81                | -0.98               |
| 11,884.00           | 90.87           | 137.86      | 5,384.33            | -4,471.78  | 4,939.29   | 6,662.81              | 3.10                  | 2.44                 | 1.90                |
| 11,948.00           | 91.18           | 137.21      | 5,383.19            | -4,518.99  | 4,982.49   | 6,726.54              | 1.13                  | 0.48                 | -1.02               |
| 12,011.00           | 90.64           | 137.38      | 5,382.19            | -4,565.28  | 5,025.21   | 6,789.29              | 0.90                  | -0.86                | 0.27                |
| 12,074.00           | 88.59           | 136.97      | 5,382.61            | -4,611.48  | 5,068.03   | 6,852.06              | 3.32                  | -3.25                | -0.65               |
| 12,137.00           | 88.08           | 135.19      | 5,384.44            | -4,656.84  | 5,111.71   | 6,914.89              | 2.94                  | -0.81                | -2.83               |
| 12,200.00           | 87.68           | 134.25      | 5,386.77            | -4,701.13  | 5,156.45   | 6,977.79              | 1.62                  | -0.63                | -1.49               |
| 12,264.00           | 87.68           | 134.13      | 5,389.36            | -4,745.71  | 5,202.30   | 7,041.70              | 0.19                  | 0.00                 | -0.19               |
| 12,327.00           | 88.76           | 132.85      | 5,391.32            | -4,789.04  | 5,247.98   | 7,104.66              | 2.66                  | 1.71                 | -2.03               |
| 12,390.00           | 88.72           | 132.57      | 5,392.71            | -4,831.77  | 5,294.26   | 7,167.64              | 0.45                  | -0.06                | -0.44               |
| 12,453.00           | 89.93           | 132.19      | 5,393.45            | -4,874.23  | 5,340.80   | 7,230.63              | 2.01                  | 1.92                 | -0.60               |
| 12,517.00           | 90.10           | 132.53      | 5,393.43            | -4,917.35  | 5,388.09   | 7,294.63              | 0.59                  | 0.27                 | 0.53                |
| 12,580.00           | 90.74           | 132.06      | 5,392.97            | -4,959.74  | 5,434.69   | 7,357.63              | 1.26                  | 1.02                 | -0.75               |
| 12,643.00           | 91.48           | 131.24      | 5,391.75            | -5,001.60  | 5,481.75   | 7,420.62              | 1.75                  | 1.17                 | -1.30               |
| 12,706.00           | 91.41           | 131.15      | 5,390.16            | -5,043.08  | 5,529.14   | 7,483.58              | 0.18                  | -0.11                | -0.14               |



# Scientific Drilling

## Survey Report



|                  |                            |                                     |                                            |
|------------------|----------------------------|-------------------------------------|--------------------------------------------|
| <b>Company:</b>  | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well GCU P26-2306 02H                      |
| <b>Project:</b>  | Sandoval County, NM        | <b>TVD Reference:</b>               | GL 6872' & RKB 15' @ 6887.00ft (Aztec 920) |
| <b>Site:</b>     | S26-T23N-R6W               | <b>MD Reference:</b>                | GL 6872' & RKB 15' @ 6887.00ft (Aztec 920) |
| <b>Well:</b>     | GCU P26-2306 02H           | <b>North Reference:</b>             | True                                       |
| <b>Wellbore:</b> | Hz                         | <b>Survey Calculation Method:</b>   | Minimum Curvature                          |
| <b>Design:</b>   | Hz                         | <b>Database:</b>                    | EDM 5000.1 Single User Db                  |

| Survey              |                 |             |                     |            |            |                       |                       |                      |                     |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 12,770.00           | 92.42           | 130.91      | 5,388.02            | -5,085.07  | 5,577.39   | 7,547.53              | 1.62                  | 1.58                 | -0.38               |
| 12,833.00           | 92.19           | 130.72      | 5,385.49            | -5,126.22  | 5,625.03   | 7,610.46              | 0.47                  | -0.37                | -0.30               |
| 12,896.00           | 92.63           | 130.71      | 5,382.84            | -5,167.28  | 5,672.74   | 7,673.38              | 0.70                  | 0.70                 | -0.02               |
| 12,959.00           | 92.39           | 130.57      | 5,380.08            | -5,208.27  | 5,720.50   | 7,736.29              | 0.44                  | -0.38                | -0.22               |
| 13,022.00           | 92.63           | 130.13      | 5,377.32            | -5,249.02  | 5,768.47   | 7,799.19              | 0.79                  | 0.38                 | -0.70               |
| 13,054.00           | 92.66           | 130.01      | 5,375.84            | -5,269.60  | 5,792.93   | 7,831.14              | 0.39                  | 0.09                 | -0.38               |
| 13,102.00           | 92.66           | 130.01      | 5,373.62            | -5,300.42  | 5,829.66   | 7,879.05              | 0.00                  | 0.00                 | 0.00                |

|                   |                    |             |
|-------------------|--------------------|-------------|
| Checked By: _____ | Approved By: _____ | Date: _____ |
|-------------------|--------------------|-------------|