



# Water Well Drilling Report

[View in Metric](#) [Export to Excel](#)

GIC Well ID 1022559  
GoA Well Tag No.  
Drilling Company Well ID 8201  
Date Report Received 2015/08/17

GOWN ID

The driller supplies the data contained in this report. The Province disclaims responsibility for its accuracy. The information on this report will be retained in a public database.

| Well Identification and Location         |                   |                                   |            |            |  |            |                            |             |                               | Measurement in Imperial       |  |
|--|-------------------|-----------------------------------|------------|------------|--|------------|----------------------------|-------------|-------------------------------|-------------------------------|--|
| <b>Owner Name</b><br>1588803 ALBERTA LTD |                   | <b>Address</b><br>3150 114 AVE SE |            |            | <b>Town</b><br>CALGARY                                 |            | <b>Province</b><br>ALBERTA |             | <b>Country</b><br>CANADA      | <b>Postal Code</b><br>T2Z 3V6 |  |
| <b>Location</b>                          | <b>1/4 or LSD</b> | <b>SEC</b>                        | <b>TWP</b> | <b>RGE</b> | <b>W of MER</b>  | <b>Lot</b> | <b>Block</b>               | <b>Plan</b> | <b>Additional Description</b> |                               |  |
|  | 4                 | 35                                | 21         | 1          | 5  |            |                            |             |                               |                               |  |
| <b>Measured from Boundary of</b>         |                   |                                   |            |            | <b>GPS Coordinates in Decimal Degrees (NAD 83)</b>     |            |                            |             |                               |                               |  |
| _____ ft from _____                      |                   |                                   |            |            | Latitude <u>50.820035</u> Longitude <u>-114.042590</u> |            |                            |             |                               | Elevation _____ ft            |  |
| _____ ft from _____                      |                   |                                   |            |            | How Location Obtained                                  |            |                            |             |                               | How Elevation Obtained        |  |
|  |                   |                                   |            |            | Hand held autonomous GPS 20-30m                        |            |                            |             |                               | Not Obtained                  |  |

| Drilling Information                      |                                 |
|---|---------------------------------|
| <b>Method of Drilling</b><br>Rotary - Air | <b>Type of Work</b><br>New Well |
| <b>Proposed Well Use</b><br>Domestic      |                                 |

| Formation Log                |               |                           | Measurement in Imperial |
|------------------------------|---------------|---------------------------|-------------------------|
| Depth from ground level (ft) | Water Bearing | Lithology Description     |                         |
| 6.00                         |               | Brown Clayey Gravel       |                         |
| 7.00                         |               | Boulders                  |                         |
| 8.00                         |               | Brown Clayey Gravel       |                         |
| 14.00                        |               | Brown Loose Sand          |                         |
| 16.00                        |               | Brown Sandstone           |                         |
| 22.00                        |               | Brownish Green Sandstone  |                         |
| 42.00                        |               | Brown Hard Sandstone      |                         |
| 44.00                        |               | Dark Green Hard Sandstone |                         |
| 89.00                        |               | Brown Weathered Sandstone |                         |
| 90.00                        |               | Green Hard Sandstone      |                         |
| 95.00                        |               | Green Sandstone           |                         |
| 116.00                       |               | Green Shale               |                         |
| 126.50                       | Yes           | Green Sandstone           |                         |
| 130.00                       |               | Green Shale               |                         |
| 135.00                       |               | Green Sandstone           |                         |

| Yield Test Summary           |                           |                         | Measurement in Imperial |
|------------------------------|---------------------------|-------------------------|-------------------------|
| <b>Recommended Pump Rate</b> |                           | <u>4.50 igpm</u>        |                         |
| Test Date                    | Water Removal Rate (igpm) | Static Water Level (ft) |                         |
| 2015/05/26                   | 4.50                      | 61.60                   |                         |

| Well Completion                                    |                            |                            |   | Measurement in Imperial   |
|--|----------------------------|----------------------------|---|---------------------------|
| <b>Total Depth Drilled</b>                         | <b>Finished Well Depth</b> | <b>Start Date</b>          | <b>End Date</b>                         |                           |
| 135.00 ft  | 135.00 ft                  | 2015/05/26                 | 2015/05/27                              |                           |
| <b>Borehole</b>                                    |                            |                            |   |                           |
| <b>Diameter (in)</b>                               |                            | <b>From (ft)</b>           | <b>To (ft)</b>                          |                           |
| 7.88   |                            | 0.00                       | 36.00                                   |                           |
| 6.13   |                            | 36.00                      | 135.00                                  |                           |
| <b>Surface Casing (if applicable)</b>              |                            |                            | <b>Well Casing/Liner</b>                |                           |
| Steel  |                            |                            | Plastic                                 |                           |
| <b>Size OD :</b>                                   |                            | <u>6.63 in</u>             | <b>Size OD :</b> <u>4.94 in</u>         |                           |
| <b>Wall Thickness :</b>                            |                            | <u>0.188 in</u>            | <b>Wall Thickness :</b> <u>0.220 in</u> |                           |
| <b>Bottom at :</b>                                 |                            | <u>37.00 ft</u>            | <b>Top at :</b> <u>35.00 ft</u>         |                           |
|  |                            |                            | <b>Bottom at :</b> <u>135.00 ft</u>     |                           |
| <b>Perforations</b>                                |                            |                            |   |                           |
| From (ft)  | To (ft)                    | Diameter or Slot Width(in) | Slot Length (in)                        | Hole or Slot Interval(in) |
| 110.00   | 130.00                     | 0.150                      | 8.00                                    | 8.00                      |
| Perforated by <u>Saw</u>                           |                            |                            |   |                           |
| <b>Annular Seal</b> <u>Bentonite Chips/Tablets</u> |                            |                            |   |                           |
| Placed from <u>0.00 ft</u> to <u>37.00 ft</u>      |                            |                            |   |                           |
| Amount <u>1.00 Bags</u>                            |                            |                            |   |                           |
| <b>Other Seals</b>                                 |                            |                            |   |                           |
| <b>Type</b>  |                            | <b>At (ft)</b>             |   |                           |
| Driven   |                            | 37.00                      |   |                           |
| <b>Screen Type</b>                                 |                            |                            |   |                           |
| <b>Size OD :</b> _____ in                          |                            |                            |   |                           |
| <b>From (ft)</b>                                   |                            | <b>To (ft)</b>             |   | <b>Slot Size (in)</b>     |
|  |                            |                            |   |                           |
| <b>Attachment</b> _____                            |                            |                            |   |                           |
| <b>Top Fittings</b>                                |                            | <b>Bottom Fittings</b>     |   |                           |
|  |                            |                            |   |                           |
| <b>Pack</b>  |                            |                            |   |                           |
| <b>Type</b> <u>Natural</u>                         |                            | <b>Grain Size</b> _____    |   |                           |
| <b>Amount</b>                                      |                            |                            |   |                           |

| Contractor Certification   |   |
|--|---|
| <b>Name of Journeyman responsible for drilling/construction of well</b><br>CHRIS QUINLAN | <b>Certification No</b><br>48135A   |
| <b>Company Name</b><br>AARON DRILLING INC.   | <b>Copy of Well report provided to owner</b> <b>Date approval holder signed</b><br>Yes 2015/08/17 |



# Water Well Drilling Report

[View in Metric](#) [Export to Excel](#)

GIC Well ID 1022559  
GoA Well Tag No.  
Drilling Company Well ID 8201  
Date Report Received 2015/08/17

GOWN ID

The driller supplies the data contained in this report. The Province disclaims responsibility for its accuracy. The information on this report will be retained in a public database.

| Well Identification and Location         |                        |                                   |                  |                 |  |            |                            |             |                               | Measurement in Imperial                |  |
|--|------------------------|-----------------------------------|------------------|-----------------|--|------------|----------------------------|-------------|-------------------------------|--|--|
| <b>Owner Name</b><br>1588803 ALBERTA LTD |                        | <b>Address</b><br>3150 114 AVE SE |                  |                 | <b>Town</b><br>CALGARY                                   |            | <b>Province</b><br>ALBERTA |             | <b>Country</b><br>CANADA      | <b>Postal Code</b><br>T2Z 3V6          |  |
| <b>Location</b>                          | <i>1/4 or LSD</i><br>4 | <i>SEC</i><br>35                  | <i>TWP</i><br>21 | <i>RGE</i><br>1 | <i>W of MER</i><br>5                                     | <i>Lot</i> | <i>Block</i>               | <i>Plan</i> | <i>Additional Description</i> |  |  |
| <b>Measured from Boundary of</b>         |                        |                                   |                  |                 | <b>GPS Coordinates in Decimal Degrees (NAD 83)</b>       |            |                            |             |                               |  |  |
| _____ ft from _____                      |                        |                                   |                  |                 | Latitude <u>50.820035</u> Longitude <u>-114.042590</u>   |            |                            |             |                               | Elevation _____ ft                     |  |
| _____ ft from _____                      |                        |                                   |                  |                 | How Location Obtained<br>Hand held autonomous GPS 20-30m |            |                            |             |                               | How Elevation Obtained<br>Not Obtained |  |

| Additional Information                                     |  |  |  |  |                                       |  |   |  |            | Measurement in Imperial |                             |
|--|--|--|--|--|---------------------------------------|--|---|--|------------|-------------------------|-----------------------------|
| Distance From Top of Casing to Ground Level _____ 36.00 in |  |  |  |  | Is Artesian Flow _____                |  |   |  |            |                         |                             |
| Rate _____ igpm  |  |  |  |  | Is Flow Control Installed _____       |  |   |  |            |                         |                             |
| Recommended Pump Rate _____ 4.50 igpm                      |  |  |  |  | Pump Installed _____                  |  | Depth _____ ft                              |  |            |                         |                             |
| Recommended Pump Intake Depth (From TOC) _____ 130.00 ft   |  |  |  |  | Type _____                            |  | Make _____                                  |  | H.P. _____ |                         | Model (Output Rating) _____ |
| Did you Encounter Saline Water (>4000 ppm TDS) _____       |  |  |  |  | Depth _____ ft                        |  | Well Disinfected Upon Completion <u>Yes</u> |  |            |                         |                             |
| Gas _____  |  |  |  |  | Depth _____ ft                        |  | Geophysical Log Taken _____                 |  |            |                         |                             |
|  |  |  |  |  | Submitted to ESRD _____               |  |   |  |            |                         |                             |
| Additional Comments on Well _____                          |  |  |  |  | Sample Collected for Potability _____ |  | Submitted to ESRD _____                     |  |            |                         |                             |

| Yield Test   |                       |                                |  | Taken From Top of Casing |  | Measurement in Imperial     |  |               |  |
|--|-----------------------|--------------------------------|--|--------------------------|--|-----------------------------|--|---------------|--|
|  |                       |                                |  | Depth to water level     |  |                             |  |               |  |
| Test Date<br>2015/05/26                                  | Start Time<br>3:00 PM | Static Water Level<br>61.60 ft |  |                          |  |                             |  |               |  |
| <b>Method of Water Removal</b>                           |                       |                                |  |                          |  |                             |  |               |  |
| Type <u>PUMP</u>   |                       |                                |  |                          |  |                             |  |               |  |
| Removal Rate <u>4.50 igpm</u>                            |                       |                                |  |                          |  |                             |  |               |  |
| Depth Withdrawn From <u>130.00 ft</u>                    |                       |                                |  |                          |  |                             |  |               |  |
| If water removal period was < 2 hours, explain why _____ |                       |                                |  |                          |  |                             |  |               |  |
|  |                       |                                |  | Pumping (ft)             |  | Elapsed Time<br>Minutes:Sec |  | Recovery (ft) |  |
|  |                       |                                |  | 61.10                    |  | 0:00                        |  | 63.40         |  |
|  |                       |                                |  | 62.20                    |  | 1:00                        |  | 62.80         |  |
|  |                       |                                |  | 62.30                    |  | 2:00                        |  | 62.60         |  |
|  |                       |                                |  | 62.40                    |  | 3:00                        |  | 62.50         |  |
|  |                       |                                |  | 62.40                    |  | 4:00                        |  | 62.50         |  |
|  |                       |                                |  | 62.50                    |  | 5:00                        |  | 62.45         |  |
|  |                       |                                |  | 62.60                    |  | 10:00                       |  | 62.35         |  |
|  |                       |                                |  | 62.40                    |  | 20:00                       |  | 62.20         |  |
|  |                       |                                |  | 62.50                    |  | 30:00                       |  | 62.10         |  |
|  |                       |                                |  | 62.55                    |  | 40:00                       |  | 62.10         |  |
|  |                       |                                |  | 62.60                    |  | 50:00                       |  | 62.00         |  |
|  |                       |                                |  | 62.65                    |  | 60:00                       |  | 61.95         |  |
|  |                       |                                |  | 62.70                    |  | 75:00                       |  | 61.90         |  |
|  |                       |                                |  | 62.70                    |  | 90:00                       |  | 61.90         |  |
|  |                       |                                |  | 62.80                    |  | 105:00                      |  | 61.85         |  |
|  |                       |                                |  | 62.80                    |  | 120:00                      |  | 60.80         |  |

| Water Diverted for Drilling     |  |                            |  |   |  |
|---------------------------------|--|----------------------------|--|---|--|
| Water Source<br>CITY OF CALGARY |  | Amount Taken<br>2000.00 ig |  | Diversion Date & Time<br>2015/05/26 8:00 AM |  |

| Contractor Certification  |  |  |  |
|---|--|--|--|
| Name of Journeyman responsible for drilling/construction of well<br>CHRIS QUINLAN |  | Certification No<br>48135A                   |  |
| Company Name<br>AARON DRILLING INC.   |  | Copy of Well report provided to owner<br>Yes |  |
|   |  | Date approval holder signed<br>2015/08/17    |  |