

APPENDIX II

Alberta Water Well Records



Water Well Drilling Report

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GIC Well ID 357688
GoA Well Tag No.
Drilling Company Well ID
Date Report Received 1990/11/08

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 Metric | | | |
|----------------------------------|--|------------------|-----|-----|---------|---|----------|-------------|---------|------------------------|-------------|------------------------|--|
| Owner Name | | Address | | | Town | | Province | | Country | | Postal Code | | |
| ANLI, JIM | | 5812 BAROC RD NW | | | CALGARY | | AB | | CA | | | | |
| Location | | 1/4 or LSD | SEC | TWP | RGE | W of MER | Lot | Block | Plan | Additional Description | | | |
| | | SE | 2 | 25 | 2 | 5 | | | | | | | |
| Measured from Boundary of | | | | | | GPS Coordinates in Decimal Degrees (NAD 83) | | | | | | | |
| | | | | | | Latitude | | Longitude | | Elevation | | m | |
| | | | | | | 51.103332 | | -114.176073 | | | | | |
| | | | | | | How Location Obtained | | | | | | How Elevation Obtained | |
| | | | | | | Not Verified | | | | | | Not Obtained | |

| Drilling Information | |
|----------------------|--------------|
| Method of Drilling | Type of Work |
| Rotary | New Well |
| Proposed Well Use | |
| Domestic | |

| Formation Log | | | Measurement in Metric | |
|-----------------------------|---------------|----------------------------|-----------------------|--|
| Depth from ground level (m) | Water Bearing | Lithology Description | | |
| 5.49 | | Clay | | |
| 8.53 | | Rounded Gravel | | |
| 10.06 | | Clay & Gravel | | |
| 19.81 | | Clay | | |
| 25.91 | | Blue Shale | | |
| 26.52 | | Sandstone | | |
| 26.82 | | Gray Shale | | |
| 27.43 | | Sandstone | | |
| 28.35 | | Gray Shale | | |
| 28.96 | | Sandstone | | |
| 30.48 | | Blue Shale | | |
| 31.70 | | Sandstone | | |
| 32.61 | | Yellow Shale | | |
| 33.53 | | Sandstone | | |
| 34.14 | | Gray Shale | | |
| 36.27 | | Yellow Shale | | |
| 54.86 | | Yellow Fractured Sandstone | | |

| Yield Test Summary | | | Measurement in Metric | |
|-----------------------|----------------------------|------------------------|-----------------------|--|
| Recommended Pump Rate | | | 27.28 L/min | |
| Test Date | Water Removal Rate (L/min) | Static Water Level (m) | | |
| 1990/10/27 | 34.10 | 42.67 | | |

| Well Completion | | | Measurement in Metric | |
|--------------------------------|---------------------|-----------------------------|-----------------------|----------------------------|
| Total Depth Drilled | Finished Well Depth | Start Date | End Date | |
| 54.86 m | | 1990/10/26 | 1990/10/27 | |
| Borehole | | | | |
| Diameter (cm) | From (m) | To (m) | | |
| 0.00 | 0.00 | 54.86 | | |
| Surface Casing (if applicable) | | Well Casing/Liner | | |
| Steel | | Plastic | | |
| Size OD : 16.81 cm | | Size OD : 11.43 cm | | |
| Wall Thickness : 0.478 cm | | Wall Thickness : 0.602 cm | | |
| Bottom at : 10.67 m | | Top at : 6.10 m | | |
| | | Bottom at : 54.86 m | | |
| Perforations | | | | |
| From (m) | To (m) | Diameter or Slot Width (cm) | Slot Length (cm) | Hole or Slot Interval (cm) |
| 48.77 | 54.86 | 0.318 | | 20.32 |
| Perforated by Other | | | | |
| Annular Seal Driven | | | | |
| Placed from 0.00 m to 10.67 m | | | | |
| Amount | | | | |
| Other Seals | | | | |
| Type | | At (m) | | |
| Screen Type | | | | |
| Size OD : 0.00 cm | | | | |
| From (m) | To (m) | Slot Size (cm) | | |
| Attachment | | | | |
| Top Fittings | | Bottom Fittings | | |
| Pack | | | | |
| Type Unknown | | Grain Size | | |
| Amount 0.00 Unknown | | | | |

| Contractor Certification | |
|--|---------------------------------------|
| Name of Journeyman responsible for drilling/construction of well | Certification No |
| UNKNOWN NA DRILLER | 1 |
| Company Name | Copy of Well report provided to owner |
| BIG ROCK WATER WELL DRILLING | Date approval holder signed |



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|----------------------------------|------------|------------------|-----|-----|---|-----|----------|------|------------------------|------------------------|--|
| Owner Name | | Address | | | Town | | Province | | Country | Postal Code | |
| ANLI, JIM | | 5812 BAROC RD NW | | | CALGARY | | AB | | CA | | |
| Location | 1/4 or LSD | SEC | TWP | RGE | W of MER | Lot | Block | Plan | Additional Description | | |
| | SE | 2 | 25 | 2 | 5 | | | | | | |
| Measured from Boundary of | | | | | GPS Coordinates in Decimal Degrees (NAD 83) | | | | | | |
| _____ m from | | | | | Latitude 51.103332 Longitude -114.176073 | | | | | Elevation _____ m | |
| _____ m from | | | | | How Location Obtained | | | | | How Elevation Obtained | |
| | | | | | Not Verified | | | | | Not Obtained | |

| Additional Information | | | | | | | | | | Measurement in Metric |
|---|--|--|--|--|--|--|--|--|--|-----------------------|
| Distance From Top of Casing to Ground Level _____ cm | | | | | | | | | | |
| Is Artesian Flow _____ | | | | | | | | | | |
| Rate _____ L/min | | | | | | | | | | |
| Is Flow Control Installed _____ | | | | | | | | | | |
| Describe _____ | | | | | | | | | | |
| Recommended Pump Rate _____ 27.28 L/min | | | | | | | | | | |
| Recommended Pump Intake Depth (From TOC) _____ 0.00 m | | | | | | | | | | |
| Pump Installed _____ | | | | | | | | | | |
| Depth _____ m | | | | | | | | | | |
| Type _____ | | | | | | | | | | |
| Make _____ | | | | | | | | | | |
| H.P. _____ | | | | | | | | | | |
| Model (Output Rating) _____ | | | | | | | | | | |
| Did you Encounter Saline Water (>4000 ppm TDS) _____ | | | | | | | | | | |
| Depth _____ m | | | | | | | | | | |
| Well Disinfected Upon Completion _____ | | | | | | | | | | |
| Gas _____ | | | | | | | | | | |
| Depth _____ m | | | | | | | | | | |
| Geophysical Log Taken _____ | | | | | | | | | | |
| Submitted to ESRD _____ | | | | | | | | | | |
| Sample Collected for Potability _____ | | | | | | | | | | |
| Submitted to ESRD _____ | | | | | | | | | | |
| Additional Comments on Well | | | | | | | | | | |
| SHALE TRAP ON LINER @ 80' & 120'. | | | | | | | | | | |
| NO LOCATION GIVEN IN SECTION SO SE USED | | | | | | | | | | |

| Yield Test | | | Taken From Ground Level | Measurement in Metric |
|--|------------|--------------------|-------------------------|-----------------------|
| | | | Depth to water level | |
| Test Date | Start Time | Static Water Level | | |
| 1990/10/27 | 12:00 AM | 42.67 m | | |
| | | | Pumping (m) | Elapsed Time |
| | | | | Minutes:Sec |
| | | | | Recovery (m) |
| | | | | |
| Method of Water Removal | | | | |
| Type Air | | | | |
| Removal Rate 34.10 L/min | | | | |
| Depth Withdrawn From 51.82 m | | | | |
| If water removal period was < 2 hours, explain why | | | | |

| Water Diverted for Drilling | | |
|-----------------------------|--------------|-----------------------|
| Water Source | Amount Taken | Diversion Date & Time |
| | L | |

| Contractor Certification | |
|--|---------------------------------------|
| Name of Journeyman responsible for drilling/construction of well | Certification No |
| UNKNOWN NA DRILLER | 1 |
| Company Name | Copy of Well report provided to owner |
| BIG ROCK WATER WELL DRILLING | Date approval holder signed |