

Owner: **P.G. Cattle Company Ltd.**
RR 2, Delburne, Alberta T0M 0V0
 Contractor: **Lousana Water Wells (1987) Ltd - Ron Craig (3890 AD)**
 Well Name: **Water Test Hole No. 1-99**

Metric Report
 Easting (m): **132,010**** 75/80
 Northing (m): **5,786,412****
 Elevation (m): **745*****

SW 03-038-22 W4M
M36327.754416


Work Type: **Water Test Hole** Date Started: **28 May 1999**
 Drilling Method: **Rotary** Date Completed: **28 May 1999**
 Completion Type: **Casing**
 Proposed Use: **Argicultural**

Elog Taken: **No** Oil Present: **No**
 Gamma Taken: **No** Gas Present: **No**
 Flowing Well: **No**

General Details
 Depth Completed (m): **7.9** Top of Bedrock: **7.6 m ***
 Depth Drilled (m): **7.9** Completion Interval: **4.3 m - 7.9 m ***

Lithology Details

Elevation (AMSL)	Depth (BGL)	Lithology Descriptions (3)
741.0	4.0	Clayey Brown Sand
737.4	7.6	Gravel
737.1	7.9	Grey Shale

Field Survey:

Completion Details
 Surface Casing: **Steel — 117.8 mm (O.D.) x 5.87 mm (thick)** Bottom (m): **7.9**

Intervals

— Completion Interval(s) —
 Casing: **4.3 to 7.9 m — 0.25 x 8 (Perforation Method: Torch)**

— Construction Interval(s) —
 AENV Seal: **0.0 to 3.7 m [Bentonite Product]**

Chemistry Summary Details (mg/L) (most recent first)
 Sample Details: **Sampled on 15 Mar 2000** (1 of 1)
 Analysis Details: **24 Mar 2000 - WSH Laboratories (1992) Ltd. (27051)**

Temperature (°C):	Chloride: 12.8	Silica:
Conductivity (µS/cm): 2100	Fluoride: 0.4	Phosphate:
TDS: 1390	Iron: 0.014	Vanadium:
pH (pH Unit): 7.31	Manganese: 0.007	Strontium:
Total Hardness: 398	Aluminum:	Zinc:
T-Alkalinity: 794	Ammonia:	Total Nitrogen:
P-Alkalinity:	Arsenic:	Total Carbon:
Calcium: 106	Barium:	Hydroxide:
Magnesium: 32.5	Beryllium:	Colour:
Sodium: 399	Cadmium:	Turbidity:
Potassium: 0.6	Chromium:	Oil & Grease
Carbonate: 0	Cobalt:	Total Coliforms:
Bicarbonate: 968	Copper:	Fecal Coliforms:
Sulfate: 358	Lead:	Ion Balance: 103
Nitrate: < 0.1	Mercury:	
Nitrite: 2.0	Molybdenum:	
Nitrate + Nitrite as N: 2.0	Nickel:	

Comments:

General Comments / Observations

Aquifer Tests (most recent first)

No.	Date	Testing Method	Duration (minutes) Pumping Recovery	Avg. Rate (lpm)	NPWL (metre)	Drawdown (metre)	Level-End (metre)	Pump (metre)	Q20 (m³/day)* Apparent Effective	Transmissivity (m²/day)* Apparent Aquifer Effective
2	13 Mar 2000 16:14	Pump	4269.0 4702.0	28.7	7.01	0.2	7.2	7.90		417
1	31 May 1999 09:10	Pump	390.0 1420.0	113.9	6.29	2.0	8.3	7.90		125

33 spatial
 quality
 physical
 hydraulic

Alternative IDs

* The Groundwater Centre calculated or determined value.
 ** 75 - MT GPS — {10TM NAD27}
 *** 80 - MT DEM — {Ground ; AMSL}
<http://www.groundwatercentre.com>