



WATER WELL DRILLERS FORM

Well Record Page 1 of 2

Department of Environment
Water Resources Section
Yukon Water Well Registry
Box 2703 Whitehorse, Yukon, Y1A 2C6

Well ID:
To be assigned by Dept. Of Environment

INSTRUCTIONS FOR COMPLETING THE FORM

- 1. Additional information is provided at the bottom of this form on page 2.
- 2. Question can be directed to Water Resources at 867 667-3171.

- 3. All well construction measurements shall be reported to 0.1 m or 0.3 ft.
- 4. Please print clearly in blue or black ink.
- 5. Completion and submission of this form is the responsibility of the drilling contractor.
- 6. Please specify metric or imperial units for all measurements.

WELL LOCATION AND OWNER'S INFORMATION

A1 Well Name: Optional (i.e. City Well No. 2)

A2 Drilled For: First Name: Barnard Last Name: Biggs Company / Department / Organization:

A3 Street Address of Well Location: Buena Road

A4 Town / Village / Area / Lot #:

A5 UTM Coordinates (using handheld GPS): NAD 8 3 Zone
 Easting Northing

A6 Elevation of Top of Casing: m / ft ASL

A7 Accuracy of GPS: +/- m / ft

A8 Purpose of Wells

- Domestic Test Well Irrigation Environmental (Quality)
- Commercial Municipal Observation - Water Level Other (please identify use)
- Industrial Agricultural Public/Recreational

Sketch of Well Location

In sketch, indicate distances from property line, septic field, fuel tank(s) and building. Please include North arrow.

LOG OF OVERBURDEN AND BEDROCK MATERIALS (All depths are below ground surface, circle appropriate units, use descriptors provided)

EXAMPLE ONLY →

| | | | |
|---|--|--|--|
| (brown, grey, green, black, red/ish, beige, olive, yellowish) | CLAY, SILT, SAND, GRAVEL, COBBLES, BOULDERS, BEDROCK | "trace" <10% (i.e. SILT trace gravel) "some" 10-20% (i.e. SAND some gravel) "silty / sandy / gravelly" 20-30% (i.e. silty SAND) "and sand" or "and gravel" 35-50% | MOISTURE: dry / moist / saturated (wet) HARDNESS: soft / hard / very hard |
| <u>brown</u> | <u>SAND</u> | <u>trace gravel</u> <u>some silt</u> | <u>soft and saturated</u> |

| Depth (m / ft) | | B4 General Colour | B5 Most Common Material | B6 Secondary Materials | B7 General Description |
|------------------|-------|-------------------|-------------------------|------------------------|------------------------|
| B2 From | B3 To | | | | |
| 0 | 24 | <u>Brown</u> | <u>Sand</u> | | |
| 24 | 115 | <u>grey</u> | <u>clay</u> | | |
| 115 | 125 | <u>grey</u> | <u>sand</u> | <u>clay</u> | |
| 125 | 135 | <u>grey</u> | <u>clay</u> | <u>rocks</u> | |
| 135 | 152 | <u>grey</u> | <u>course sand</u> | <u>gravel</u> | <u>some water</u> |
| 152 | 230 | <u>grey</u> | <u>clay</u> | <u>rocks</u> | <u>glacial till</u> |
| 230 | 253 | <u>grey</u> | <u>sand</u> | <u>gravel + silt</u> | <u>some water but</u> |
| 253 | 254 | <u>grey</u> | <u>clay</u> | | <u>tightly packed.</u> |
| 255 | 261 | <u>grey</u> | <u>sand</u> | | <u>clean w/ water</u> |

B8 Permafrost Encountered: NO YES If yes, indicated depth (m / ft): from: to:

WELL CONSTRUCTION (Continues on Page 2)

Date Well Completed 24 / 08 / 2007
D D M M Y Y Y Y

Example: 31 01 2005

C1 Drilling Method Air Rotary (Conventional) Dug Other (please specify)

Reverse Air Rotary Cable Tool

Mud Rotary Auger (Hollow / Solid Stem)

C2 Well Type: In what geological material is the water producing zone located?

OVERBURDEN BEDROCK

Casing (depth below ground surface, please circle appropriate units)

C3 Outside Diameter 6 (cm) ln (in)

C4 Casing Material Steel Plastic Other

C5 Casing Wall Thickness 2.50 (cm) ln (in)

C6 Casing Depth to: 259'6" (m / ft)

C7 Other Comments Regarding Casing:

Surface / Environmental Seal (depth below ground surface, please circle appropriate units)

C8 Seal Material Type:

Bentonite chips (i.e. Bentonite)

C9 Diameter of Seal:

8 (cm / in)

C10 Seal Depth from:

8 (m / ft)

C11 Seal Depth to:

14 (m / ft)

C12 Volume Placed:

(m³ / ft³)

Gravel Pack (depth below ground surface, please circle appropriate units)

C13 Gravel Pack:

NO YES

If yes, indicated depth (m / ft):

from: to: Indicate diameter of material:

(mm / inches)

Material type: (i.e. silica)

Well Screen Information (depth below ground surface, please circle appropriate units)

C14 Outside Diameter

5 (cm / in)

C15 Screen Material

Stainless Steel Steel Plastic N/A Other

C16 Screen Type

Continuous Wire Wrap Louver Screen Perforated Slotted Open Hole

C17 Depth from:

Screen 1: 257.5 (m / ft)

C18 Depth to:

261 (m / ft)

Slot Size / Perforation Dia:

.012 Thou. / mm / inches

Screen 2: (m / ft)

Screen 3: (m / ft)

C19 Screen Comments:

WELL DEVELOPMENT AND STATUS

D1 Well Developed by

Surge Block Water Jetting Air Jetting / Air Lifting Balling Pumping Other

D2 Well Head Completion

Well House Pitless Adaptor Well Pit (NOT PERMITTED) None

D3 Well Head Stick-up (above ground surface)

1.5 (m / ft)

D4 Static Water Level (below top of casing)

28 (m / ft)

D5 Well Yield Estimate

70 (Lps / gpm)

D6 Final Well Status

Water Supply (in use) Stand by (Back-up) Observation Not in use Deepened Other Abandoned Dry Poor Quality Insufficient Yield

D7 Well Abandonment Status

Was the well properly decommissioned with bentonite grout? YES NO

If YES, Indicate Date:

D D M M Y Y Y Y

D8 Method Used to Estimate Well Yield

Air Lifting Balling Pumping Test

PUMPING TEST RECORD AND GROUNDWATER QUALITY

(All depths below ground, circle appropriate units)

E1 Pumping Test Information

Pumping Test Start Date:

D D M M Y Y Y Y

Static Water Level (SWL):

28 (m / ft)

Pump Intake Set at:

100 (m / ft)

Duration of pumping:

3 hrs min

Final Water Level (FWL) at end of Pumping Test:

78 (m / ft)

RECOMMENDATIONS

Recomm. Pump Depth: 150 (m / ft)

Recomm. Pumping Rate: 10 (Lps / gpm)

If flowing, provide rate: (Lps / gpm)

F1 Well Water Level Drawdown/Recovery DATA

Table with columns for Drawdown (Time, Water Level) and Recovery (Time, Water Level) at various intervals from 0 to 60 minutes.

G1 GROUNDWATER QUALITY

Field Data

Date Measurements Taken:

D D M M Y Y Y Y

Electrical Conductivity: us

pH:

Temperature: °C

Turbidity/Sand Content

Clear Slightly turbid/cloudy Moderately turbid/cloudy Turbid/cloudy Trace sand present No sand present

Well Disinfection

Was the well disinfected upon completion of the pump installation? YES NO

Briefly describe method of well disinfection.

Bacteria Testing

Was a sample taken? YES NO

Date Sample Taken:

D D M M Y Y Y Y

If yes, indicate the name of the laboratory.

Chemical Analysis of Water

Was a sample taken? YES NO

Date Sample Taken:

D D M M Y Y Y Y

If yes, indicate the name of the laboratory.

WELL CONTRACTOR

H1 Name of Contractor / Drilling Company: Cathway Water Resources

H2 Name of Driller(s): Ron Beans

H3 Address of Driller: Box 21048 Unse. Y.T. Y1A 6P6

Signature of Primary Driller: Ron Beans

Date Submitted to Dept. Of Environment: D D M M Y Y Y Y

CONSULTANT (if applicable)

I1 Company Name:

I2 Company Address:

I3 Report Reference:

I4 Report Date:

ADDITIONAL INSTRUCTIONS

Upon completing this form, please mail or fax it to:

Water Resources Section (V-310), Department of Environment, Government of Yukon, Box 2702, Whitehorse, Yukon, Canada Y1A 2C6

Please feel free to contact us at:

Phone: (867) 667-3171, Toll free (in Yukon): (1-800) 661-0408, local 3171 Fax: (867) 667-3195 E-mail: WaterResources@dnv.yk.ca