Yukon Government

Department of Environment
Water Resources Section V-310
Yukon Water Well Registry
Box 2703 Whitehorse, Yukon Y1A 2C6

1/1332

Well ID: _____
To be assigned by Dept. Of Environment

Well Record Page 1 of 2

# WATER WELL DRILLERS FORM

Metric ○ Imperial ◉

## 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 [redacted] Last Name [redacted] Company / Department / Organization _____

**A3 Street Address of Well Location:** Lot 1038 Alaska Highway

**A4 Town / Village / Area / Lot #:** Mendenhall

**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)

**Sketch of Well Location**

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

**A8 Purpose of Wells**

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

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

| EXAMPLE ONLY → | *(brown, grey, green, black, redish, 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 / gravely" 20-30% (i.e. silty SAND) "and sand" or "and gravel" 35-50%* | *MOISTURE: dry / moist / saturated (wet) HARDNESS: soft / hard / very hard* |
|---|---|---|---|---|
| | brown | SAND | trace gravel some silt | soft and saturated |

| Depth ( m / (ft)) B2 From | B3 To | B4 General Colour | B5 Most Common Material | B6 Secondary Materials | B7 General Description |
|---|---|---|---|---|---|
| 0 | 3 | Brown | Clay | | |
| 3 | 35 | Brown | Boulders, Gravel | Sand, Clay | |
| 35 | 66 | Grey | " | " | |
| 66 | 150 | Grey/White | Bedrock | | |
| 150 | 220 | Grey | Bedrock | | |
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**B8 Permafrost Encountered:** ☐ NO ☐ YES If yes, indicated depth ( m / (ft)): from: _____ to: _____

## WELL CONSTRUCTION *(Continues on Page 2)*

**Date Well Completed** 2021 08 23 (Y Y Y Y M M D D) *Example: 2005 01 31*

**C1 Drilling Method**

- ■ Air Rotary (Conventional)
- ☐ Reverse Air Rotary
- ☐ Mud Rotary
- ☐ Dug
- ☐ Cable Tool
- ☐ Auger (Hollow / Solid Stem)
- ☐ Other *(please specify)* _____

**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 / (in))

**C4 Casing Material**

- ■ Steel
- ☐ Plastic
- ☐ Other _____

**C5 Casing Wall Thickness** .219 ( cm / (in))

**C6 Casing Depth to:** 66 ( m / (ft))

**C7 Other Comments Regarding Casing:**

## WELL CONSTRUCTION *(Continued from Page 1)*



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

**C8 Seal Material Type:** Bentonite (i.e. Bentonite)

**C9 Diameter of Seal:** 10 ( cm / in )

**C10 Seal Depth from:** 0 ( m / ft )

**C11 Seal Depth to:** 15 ( m / ft )

**C12 Volume Placed:** ( $m^3$ / $ft^3$ )

### 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:** 6 ( 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: | C18 Depth to: | Slot Size / Perforation Dia: |
|---|---|---|---|
| Screen 1. | ☐ ( m / ft ) | ☐ ( m / ft ) | ☐ Thou. / mm / inches |
| Screen 2. | ☐ ( m / ft ) | ☐ ( m / ft ) | ☐ Thou. / mm / inches |
| Screen 3. | ☐ ( m / ft ) | ☐ ( m / ft ) | ☐ Thou. / mm / inches |

**C19 Screen Comments:** ☐

## WELL DEVELOPMENT AND STATUS

**D1 Well Developed by:** ☐ Surge Block ☐ Water Jetting ☒ Air Jetting / Air Lifting ☐ Bailing ☐ Pumping ☐ Other: ☐

**D2 Well Head Completion:** ☐ Well House ☒ Pitless Adaptor *Depth of adaptor:* 6 ( m / ft ) ☐ Well Pit (NOT PERMITTED) ☐ None (well not completed)

**D3 Well Head Stick-up** *(above ground surface)*: 2 ( m / ft ) *(Use negative if below grade)*

**D4 Static Water Level** *(below top of casing)*: 32 ( m / ft ) *(Use negative if below grade)*

**D5 Well Yield Estimate:** 15 ( Lps / gpm )

**D6 Final Well Status:** ☒ Water Supply (in use) ☐ Not in use ☐ Abandoned ☐ Stand by (Back-up) ☐ Deepened ☐ Observation ☐ Other: ☐

*If well was abandoned, please give reason:* ☐ Dry ☐ Poor Quality ☐ Insufficient Yield ☐ Artesian conditions

**D7 Well Abandonment Status**

Was the well properly decommissioned with bentonite grout? ☐ YES ☐ NO

If YES, Indicate Date: ☐

Y Y Y Y M M D D

**D8 Method Used to Estimate Well Yield:** ☐ Air Lifting ☐ Bailing ☐ Pumping Test *(If test conducted, complete Pumping Test Record)*

## PUMPING TEST RECORD AND GROUNDWATER QUALITY

*(All depths below ground, circle appropriate units)*

**E1 Pumping Test Information**

Pumping Test Start Date: ☐

Y Y Y Y M M D D

Static Water Level (SWL): ☐ ( m / ft )

Pump Intake Set at: ☐ ( m / ft )

Duration of pumping: ☐ hrs ☐ min

Final Water Level (FWL) at end of Pumping Test: ☐ ( m / ft )

**RECOMMENDATIONS**

Recomm. Pump Depth: ☐ ( m / ft )

Recomm. Pumping Rate: ☐ ( Lps / gpm )

If flowing, provide rate: ☐ ( Lps / gpm )

**F1 Well Water Level Drawdown/Recovery DATA**

| Drawdown Time (min) | Drawdown Water Level (m / ft) | Recovery Time (min) | Recovery Water Level (m / ft) |
|---|---|---|---|
| 0 (SWL) | | 0 (FWL) | |
| 1 | | 1 | |
| 2 | | 2 | |
| 3 | | 3 | |
| 4 | | 4 | |
| 5 | | 5 | |
| 10 | | 10 | |
| 15 | | 15 | |
| 20 | | 20 | |
| 25 | | 25 | |
| 30 | | 30 | |
| 40 | | 40 | |
| 50 | | 50 | |
| 60 | | 60 | |

**G1 GROUNDWATER QUALITY**

**Field Data**

Date Measurements Taken: ☐

Y Y Y Y M M D D

Electrical Conductivity: ☐ uS

pH: ☐

Temperature: ☐ °C

**Turbidity/Sand Content**

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

**Groundwater Type**

☐ Salty
☐ Sulphur / Egg Odour
☐ Organic Taste / Odour
☐ Metallic Taste
☐ Other: ☐

**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 *If yes, indicate the name of the laboratory.*

Date Sample Taken: ☐ ☐

Y Y Y Y M M D D

**Chemical Analysis of Water**

Was a sample taken? ☐ YES ☐ NO *If yes, indicate the name of the laboratory.*

Date Sample Taken: ☐ ☐

Y Y Y Y M M D D

## WELL CONTRACTOR

H1 Name of [redacted]

H2 Name of [redacted]

H3 Address [redacted]

Date Submitted to Dept. Of Environment

## CONSULTANT *(If applicable)*

I 1 Company Name: ☐

I 2 Company Address: ☐

I 3 Report Reference: ☐

I 4 Report Date: ☐

Y Y Y Y M M D D

## ADDITIONAL INSTRUCTIONS

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

Water Resources Section (V-310), Department of Environment, Government of Yukon Box 2703, 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: Water.Resources@gov.yk.ca

Personal information contained on this form is collected under the authority of the *Access to Information and Protection of Privacy (ATIPP) Act*, Section 29 (c) and will be used to compile a public database of well and ground water information. For further information contact the Manager of Hydrology, Water Resources at (867) 667-3223, toll free within Yukon 1-800-661-0408 Ext 3223.

***I have read the above clause and understand the purpose for collection of personal information.*** ☐

Signature of Well Owner