Well ID: 204110124

Yukon Environment
Yukon Water Well Registry
Water Resources Branch
Box 1703, Whitehorse, Yukon, Y1A 2C6

WATER WELL DRILLING REPORT

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The data contained in this report is supplied by the Driller. The Government of Yukon disclaims responsibility for its accuracy. The information contained in this "Water Well Drilling Report" has not been verified by the Water Resources Branch. If fields are empty, then no information was provided by the driller.

WELL LOCATION

Well Name: BH 77-4

The well name is simply an informal name given to a well upon it's completion.

Address (e.g., street, lot):

Town/Village/Hamlet/Area: WHSE - Whitehorse

UTM Coordinates of Well Location: 499701 m E 6719071 m N

NAD83 Zone 8

Accuracy of Well Location: 30-100 +/- m

Given that the well location may not be accurate, the above accuracy value represents the approximate error that might be associated with the actual well location.

Sketch of Well Location

This sketch has been provided by the driller and should be considered as an approximation of well location only.

The well was drilled for the following purpose: Water exploration test hole

Date the well was completed:

The method used to drill the well:

LOG OF OVERBURDEN AND BEDROCK MATERIALS

The following section describes the geological materials (as recorded by the driller) that were encountered when the well was first drilled.

Depth (m) From	Depth (m) To	General Colour	Most Common Material	Secondary Materials	General Description
0	2.4		Silty sand and GRAVEL		
2.4	4		TILL, v. silty		
4	6.7		BASALT, hard (boulder?)		
6.7	11.9		TILL, sandy fine, silt		
11.9	29.6		BASALT, fine, hard		
29.6	33.5		BASALT, rusty silt in fract		

While drilling the well, was permafrost encountered? ☐ **If yes, the depth interval was:** from: m to m

WELL CONSTRUCTION

The following section provides information about the well construction details.

Monitor ID: 2041401241

For administrative purposes only

In what geological material (i.e. sand and gravel or bedrock) is the water producing zone of the well completed?

The outside diameter of the well casing: 15.25 cm

The casing material is made out of:

The casing wall thickness is: mm

The casing extends in a depth below ground surface of: m

Other comments that were provided by the driller regarding the casing:

Surface/Environmental Seal A surface seal provides an impermeable seal between the casing and the ground in the upper 3 metres. This seal helps prevent surface water from leaking downward and into the well water.

Seal Material Type: **Diameter of Seal:** m **Seal Depth from:** m **Seal Depth to:** m

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Gravel Pack A gravel pack is sometimes installed by the driller around the well screen. The purpose of a gravel pack could be to reduce sand production in the well water or to increase well yield.

Is there a gravel pack on the well? ☐

Gravel pack details (as provided by the driller):

Well Screen Infromation

Screened Interval from: 4 m **to:** 33.5 m

The outside diameter of the screen is: mm

Screen 1 Length: 29.5 m **Slot Size 1:** thou. inch

The screen is made of:

Screen 2 Length: m **Slot Size 2:** thou. inch

Screen 3 Length: m **Slot Size 3:** thou. inch

The type of screen is: Open Hole

There are many types of well screens on the market. Wells with no screens or wells constructed in bedrock are called "OPEN HOLE".

Other useful comments about the screen:

Open Hole

WELL DEVELOPMENT AND STATUS

Following well construction, the well is developed or clean-out until clear groundwater is produced. Depending on the well yield and water quality, the well status is determined (i.e. the well is put into production or the well is abandoned). The following section provides information about Well Development and Status.

The well was developed by: Air surging

Once the well was constructed the following completion or "tie in" was constructed:

The height of the well casing above ground surface construction (i.e. Well Stick-up) is: m AGS

The static water level (i.e. non pumping condition) below top of casing is: m

The estimated yield or production rate of the well is: 0.75 L/s

After constructing and developing the well, the Well Status was: Not in use

If the well was abandoned, was the well properly filled (i.e. sealed) with bentonite grout? ☐ **If YES, date:**

Method used to estimate the well yield:

PUMPING TEST RECORD AND GROUNDWATER QUALITY

Following well construction, the well may have been assessed for quality and/or tested to determine well yield or production rate. The following section provides this information if such assessment was done.

Pumping Test Information

Pumping Test Start Date: 6/30/1977

Static Water Level (SWL): m

Pump was set at a depth of: m

Duration of pumping test: min

Final Water Level (FWL) at end of pumping test m

If the well is flowing naturally under artesian pressure, the flow rate is: L/s

Recommended Pump Depth and Flow Rate

Pump depth: m

Pump rate: L/s

Well Water Level Drawdown Data

Drawdown	
Time (min)	Level (m

Groundwater Quality

Electrical Conductivity: uS pH: Temperature: C

Date Measurements Taken:

Was Bacteria Testing Conducted? ☐ Date Sample Taken Laboratory that conducted analysis:

Was Chemical Analysis Conducted? ☐ Date Sample Taken Laboratory that conducted analysis:

Groundwater Type (i.e. salty, rotten egg smell, iron staining):

Turbidity/sand content after development:

Well Disinfection:

Following well construction the well should be disinfected. Above briefly describes the method of disinfection.

WELL CONTRACTOR

The well contractor that drilled and constructed the well.

Name of Contractor/Drilling Company: Midnight Sun Drilling Company Limited

Name of Driller(s):

CONSULTANT

Consultants that may have been associated with the drilling/well construction.

Company Name:

Company Address:

Report Reference: