



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: NCY #1 WSW

The well name is simply an informal name given to a well upon its completion.

Address (e.g., street, lot): KM 325 Dempster Highway

Town/Village/Hamlet/Area: DRHWY - Dempster Highway

UTM Coordinates of Well Location: 398628 m E 7335446 m N
NAD83 Zone 8

Accuracy of Well Location: +/- 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.*

The well was drilled for the following purpose: Commercial

Date the well was completed: 2011-10-23

The method used to drill the well: Rotary air

Sketch of Well Location

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

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)		General Colour	Most Common Material	Secondary Materials	General Description
From	To				
0	3	light grey-brown	clay	slight fine silt 5%	dry, claystone, soft
3	6	light grey	clay		dry, claystone, soft
6	9	light grey	clay	slight silt 10%	dry, sl.silty claystone, soft
9.1	12.1	light buff-grey	clay	slight vf silt 5%	dry, claystone, soft
12.1	15.3	light buff-grey	clay	silt 10%	dry, claystone, hard in part
15.3	18.2	med dark grey-brown	clay	very fine silt 5%	dry, claystone, powdery
18.2	21.3	med grey	clay	silt 10%	dry, sl.silty claystone, soft
21.3	24.3	med grey	clay	very fine silt 5%	dry, v.sl.silty claystone, soft
24.3	30	med grey	clay	very fine silt <5%	damp, claystone, soft
30	35	med-dk grey	clay	very fine silt 5%	wet, claystone, soft
35	40	med-dk grey	clay	very fine silt 5%	wet, sl. Silty claystone, soft
40	45	T-med grey	clay	very fine silt <5%	wet, sl. Silty claystone, soft

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: 8090300011

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: 155.6 cm

The casing material is made out of: Steel

The casing wall thickness is: 8 mm

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

Other comments that were provided by the driller regarding the casing: 100mm plastic liner set at 18m to 42m

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: Benonite grout Diameter of Seal: [] m Seal Depth from: 0 m Seal Depth to: 20 m

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 Information

Screened Interval from: [] m to: [] m

The outside diameter of the screen is: [] mm

Screen 1 Length: [] m Slot Size 1: [] thou. inch

The screen is made of: Plastic

Screen 2 Length: [] m Slot Size 2: [] thou. inch

The type of screen is: Slotted casing

Screen 3 Length: [] m Slot Size 3: [] thou. inch

Other useful comments about the screen:

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

plastic liner set at 42 to 18 m slots are 26.5 to 42m

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: Well House

The height of the well casing above ground surface construction (i.e. Well Stick-up) is: 0.5 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: 2.67 L/s

After constructing and developing the well, the Well Status was: New, in use for intended purpose

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: Air lifting

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

Recommended Pump Depth and Flow Rate

Well Water Level Drawdown Data

Pumping Test Start Date: 2011-10-24

Pump depth: 40 m

Static Water Level (SWL): 20 m

Pump rate: 2 L/s

Pump was set at a depth of: 40 m

Duration of pumping test: [] min

Final Water Level (FWL) at end of pumping test: 20 m

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

Table with 2 columns: Time (min), Level (m). Header: Drawdown. Rows: []

G1 Groundwater Quality

Electrical Conductivity: [] uS pH: 7.1 Temperature: 3 C

Date Measurements Taken: 2011-10-24

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

Was Chemical Analysis Conducted? [x] Date Sample Taken 2011-10-24 Laboratory that conducted analysis: ALS Environmental

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

Turbidity/sand content after development: [] 2

Well Disinfection: []

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

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WELL CONTRACTOR The well contractor that drilled and constructed the well.

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

Name of Contractor/Drilling Company:

Company Name:

Name of Driller(s): Msdc

Company Address:

Report Reference: