

# Northwind Drilling And Pump Sales

Box 284 Watson Lake, Yukon Y0A 1C0

867-536-2009

# BC Environment

Groundwater Section

Water Management Branch

| IDENTIFICATION  |              |                    |  |
|-----------------|--------------|--------------------|--|
| Well I.D. No.:  | 401          | Plate #:           |  |
| Name:           | Bergeron     | Steve              |  |
|                 | (Last)       | (First)            |  |
| Address:        | 16           | Alaska Hwy./ scale |  |
|                 | (Street No.) | (Street Name)      |  |
| Consultant Co.: | Na           |                    |  |

| WELL LOCATION           |                    |               |       |
|-------------------------|--------------------|---------------|-------|
| BCGS:                   |                    |               |       |
| Lot:                    | 50                 | Plan:         | 27641 |
| District Lot:           |                    |               |       |
| Location:               | Watson Lake, Yukon |               |       |
| Section:                | Township:          | Range:        |       |
| PID:                    | Land Dist:         | Block:        |       |
| Legal Misc.:            |                    |               |       |
| GPS Lat:                |                    | GPS Long:     |       |
| Proposed Use:           | DOM                | Type of Work: | NEW   |
| Owner's Number of Well: | 401                | Type of Rig:  | CAB   |

| DIMENSIONS       |    |        |                                 |
|------------------|----|--------|---------------------------------|
| Diameter of Well | 6  | Inches |                                 |
| Drilled:         | 92 | ft.    | Depth of completed well: 92 ft. |
| Liner From:      | 0  | ft.    | To: 0 ft. Diameter: in.         |

| CASING DETAILS 1 |     |             |                  |
|------------------|-----|-------------|------------------|
| Material:        | STL | Table Used: | SCHEDULE         |
| Size:            | 6"  | Diameter:   | 6.625            |
| From:            |     | Wall:       | 188              |
|                  |     | To:         | Total Length: 96 |

| CASING DETAILS 2 |  |             |               |
|------------------|--|-------------|---------------|
| Material:        |  | Table Used: |               |
| Size:            |  | Diameter:   | Wall:         |
| From:            |  | To:         | Total Length: |

| PERFORATIONS  |                          |
|---------------|--------------------------|
| Perforations: | <input type="checkbox"/> |
| Misc.:        |                          |

| SCREENS                                              |                          |              |                     |
|------------------------------------------------------|--------------------------|--------------|---------------------|
| Screens:                                             | <input type="checkbox"/> | Material:    | Stainless Steel     |
| Manufacture:                                         | johnson                  |              |                     |
| Type:                                                |                          | Wire:        | V Wire              |
| I.D.:                                                | inches                   | Slot Size 1: | 20 77 ft. to 81 ft. |
| I.D.:                                                | inches                   | Slot Size 2: | ft. to              |
| Total Length of Assembly Including Blanks and Riser: |                          |              | 4 ft.               |

| GRAVEL PACKED       |                          |                 |     |
|---------------------|--------------------------|-----------------|-----|
| Gravel Packed:      | <input type="checkbox"/> | Size of Gravel: |     |
| Gravel placed from: |                          | ft. to          | ft. |

| SURFACE SEAL                  |                          |
|-------------------------------|--------------------------|
| Surface Seal:                 | <input type="checkbox"/> |
| Material Used in Seal:        | bentonite                |
| Method of Sealing strata off: | bentonite/               |

| DATE             |                   |
|------------------|-------------------|
| Started:         | 6/9/2004          |
| Completed:       | 7/12/2004         |
| Rig #:           | 01                |
| Other Equipment: | pump developement |

| DEPTH       |     | CREW     |             |
|-------------|-----|----------|-------------|
| Overburden: | 92  | Driller: | Don Stone   |
| Bedrock:    | ft. | Helper:  | Shawn Stone |
| Total:      | ft. |          |             |

| LITHOLOGY               |    |                                                                                |
|-------------------------|----|--------------------------------------------------------------------------------|
| Unit of Measurement: FT |    |                                                                                |
| FROM                    | TO | LITHOLOGY                                                                      |
| 0                       | 27 | surface gravels,sand,light grey                                                |
| 28                      | 32 | hard pan,gravels                                                               |
| 33                      | 44 | grey sands,fine,silty                                                          |
| 45                      | 52 | hardclays,sharp gravels,water bearing,perma frost,small flow, static of 9 feet |
| 53                      | 77 | grey sands,silty water bearing,warm                                            |
| 78                      | 82 | clays,sharp gravels,wood, cold waterbearing with static of 26 feet             |
| 83                      | 92 | cemented gravels,clay,silts.                                                   |

|                                                                                |    |
|--------------------------------------------------------------------------------|----|
| Development Total Hrs.:                                                        | 16 |
| Development Notes                                                              |    |
| All attempts at developement was found to have poor results.Grey silts cloudy. |    |

| GENERAL COMMENTS                              |
|-----------------------------------------------|
| Well was not completed to a producing status. |

| PRODUCTION DATA AT TIME OF DRILLING |        |        |                          |
|-------------------------------------|--------|--------|--------------------------|
| Static Level:                       | ft.    | Tidal: | <input type="checkbox"/> |
| Rec'd Max. Pump Output:             | BAIL   | at     | ft.                      |
| Rec'd Pump Setting:                 | 86 ft. | at     | 12 GPM from GrdLvl       |

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# BC Environment

Groundwater Section

Water Management Branch

| IDENTIFICATION  |                                                |
|-----------------|------------------------------------------------|
| Well ID. No.:   | 4012 Plate #:                                  |
| Name:           | Bergeron (Last) Steve (First)                  |
| Address:        | 16 Alaska Hwy/scale (Street No.) (Street Name) |
| Consultant Co.: | Na                                             |

| DATE             |                               |
|------------------|-------------------------------|
| Started:         | 8/5/2004 Completed: 8/10/2004 |
| Rig #:           | 01                            |
| Other Equipment: | pumping equipment             |

| WELL LOCATION           |                           |
|-------------------------|---------------------------|
| BCGS:                   |                           |
| Lot: 50                 | Plan: 27641 District Lot: |
| Location:               | Watson Lake, Yukon        |
| Section:                | Township: Range:          |
| PID:                    | Land Dist: Block:         |
| Legal Misc.:            |                           |
| GPS Lat: n 60 03 00     | GPS Long: w128.39.20      |
| Proposed Use:           | DOM Type of Work: NEW     |
| Owner's Number of Well: | 401 Type of Rig: CAB      |

| DEPTH       |        | CREW     |             |
|-------------|--------|----------|-------------|
| Overburden: | 92 ft. | Driller: | Shawn Stone |
| Bedrock:    | ft.    | Helper:  | Roger       |
| Total:      | 92 ft. |          |             |

| DIMENSIONS       |                                        |
|------------------|----------------------------------------|
| Diameter of Well | 8 inches                               |
| Drilled:         | 92 ft. Depth of completed well: 51 ft. |
| Liner From:      | ft. To: ft. Diameter: in.              |

| LITHOLOGY            |    |                                                                          |
|----------------------|----|--------------------------------------------------------------------------|
| Unit of Measurement: | FT |                                                                          |
| FROM                 | TO | LITHOLOGY                                                                |
| 0                    | 32 | hard pan clays, overburden, permafrost at 32 feet                        |
| 33                   | 51 | shard gravels with some sand ending in clay silts with large water flow. |

| CASING DETAILS 1 |                          |
|------------------|--------------------------|
| Material:        | STL Table Used: SCHEDULE |
| Size: 6"         | Diameter: 6.625 Wall:    |
| From: 0          | To: 51 Total Length: 51  |

| CASING DETAILS 2 |                   |
|------------------|-------------------|
| Material:        | Table Used:       |
| Size:            | Diameter: Wall:   |
| From:            | To: Total Length: |

| PERFORATIONS  |                          |
|---------------|--------------------------|
| Perforations: | <input type="checkbox"/> |
| Misc.:        |                          |

|                         |                                                                           |
|-------------------------|---------------------------------------------------------------------------|
| Development Total Hrs.: | 16                                                                        |
| Development Notes       | Cloudy, warm flow intrusion, two desctive static levels, with permafrost. |

| SCREENS                                              |                                                                         |
|------------------------------------------------------|-------------------------------------------------------------------------|
| Screens:                                             | <input checked="" type="checkbox"/> Material: Stainless Steel 19.2-21.6 |
| Manufacture:                                         | Johnson                                                                 |
| Type:                                                | continuous slot Wire: V Wire                                            |
| I.D.:                                                | 5.5 inches Slot Size 1: 20 71 ft. to 67 ft.                             |
| I.D.:                                                | 5.5 inches Slot Size 2: 20 67 ft. to 63 ft.                             |
| Total Length of Assembly including Blanks and Riser: | 8 ft.                                                                   |

| GENERAL COMMENTS                                                  |  |
|-------------------------------------------------------------------|--|
| this work was to find an adequit suppy in surface layer of water. |  |

| GRAVEL PACKED       |                                          |
|---------------------|------------------------------------------|
| Gravel Packed:      | <input type="checkbox"/> Size of Gravel: |
| Gravel placed from: | ft. to ft.                               |

| PRODUCTION DATA AT TIME OF DRILLING |                                        |
|-------------------------------------|----------------------------------------|
| Static Level:                       | 13 ft. Tidal: <input type="checkbox"/> |
| Rec'd Max. Pump Output:             | PUMP at 18 GPM at 45 ft.               |
| Rec'd Pump Setting:                 | 45 ft. at 18 GPM from Casing           |

| SURFACE SEAL                  |                                               |
|-------------------------------|-----------------------------------------------|
| Surface Seal:                 | <input checked="" type="checkbox"/> Depth: 10 |
| Material Used in Seal:        | Bentonite/                                    |
| Method of Sealing strata off: | oversized                                     |

DISCLAIMER: The Province disclaims all responsibility for the accuracy of this information. This information should not be used as a basis for making financial or any other commitments.