

# HYDROGEOLOGIC LOG

BOREHOLE NO.

3186-C

PURPOSE OF HOLE: Water Supply Well  
 DRILLING METHOD: Dual Air Rotary  
 START DRILLING: November 26, 2005  
 SCREEN INSTALLED: December 1, 2005  
 CONTRACTOR: Double "D" Drilling Ltd.

GROUND ELEV. (m-geod): N/A  
 TOP OF CASING (m-geod): N/A  
 CASING STICK UP (m): 1.0 m-above grd.  
 DEPTH TO STATIC (m): 0.4 m-btoc.  
 DEPTH TO SCREEN TOP (m): 29.6 m-bg.

| Lithology   | Comments | Well Installation Summary |
|---|----------|---------------------------|
| Depth (m)   |          |                           |
| 0m  |          |                           |
| SILT/CLAY (TILL) - trace of organics                                |          |                           |
| 5m  |          |                           |
| 9.1 m   |          |                           |
| 10m SAND - silty  | 10.9 m   |                           |
| SILT/CLAY (TILL)  |          |                           |
| 15m   |          |                           |
| 16.8 m  |          |                           |
| SAND & SILT - trace of organics, fine-med. grained sand, wet, brown |          |                           |
| 20m   |          |                           |
| 25m   |          |                           |
| 27.4 m  |          |                           |
| SAND AND GRAVEL - silty   | 28.9 m   |                           |
| 30m SAND AND GRAVEL - some silt                                     | 30.8 m   |                           |
| SILT/CLAY (TILL)  |          |                           |
| 35m   |          |                           |
| 40m   |          |                           |
| 42.6 m  |          |                           |
| SAND - silty  |          |                           |
| 45m   |          |                           |
| 45.7 m  |          |                           |
| SILT/CLAY (TILL)  |          |                           |
| 50m   |          |                           |
| 55m   |          |                           |
| 60m   |          |                           |
| 65m   |          |                           |
| 65.5 m  |          |                           |
| END OF BOREHOLE   |          |                           |

**EBA Engineering Consultants Ltd.**

PROJECT **WELL COMPLETION REPORT  
GRADER STATION - DESTRUCTION BAY, YUKON**

CLIENT

TITLE **WELL LOG 3186-C**

DATE JAN. 2006

DWN. JSB

CHKD. KSJ

FILE NO. 1260008

DRWG. FIGURE A1

MAP Z E N WELL No.      ELEV      Location Accuracy       
 Date 19      Well Type     

Owners Name & Address       
 Legal Description & Address     

Descriptive Location DESTRUCTION DAM GRAVEL STN. DESTRUCTION DAM Y1.

1. TYPE OF WORK: 1  New Well 2  Reconditioned 3  Deepened 4  Abandoned
2. WORK METHOD: 1  Cable tool 2  Bored 3  Jetted 4  Rotary a  mud b  air c  reverse  Other
3. WATER WELL USE: 1  Domestic 2  Municipal 3  Irrigation 4  Comm. & Ind.  Other
4. DRILLING ADDITIVES NONE

9. CASING: 1  Steel 2  Galvanized 3  Wood 4  Plastic 5  Concrete  Other

|               |             |  |  |  |  |  |  |  |  |       |
|---------------|-------------|--|--|--|--|--|--|--|--|-------|
| Hole Diameter | <u>6.75</u> |  |  |  |  |  |  |  |  | units |
| Diameter      | <u>6</u>    |  |  |  |  |  |  |  |  | ins   |
| from          | <u>0</u>    |  |  |  |  |  |  |  |  | ft    |
| to            | <u>96</u>   |  |  |  |  |  |  |  |  | ft    |
| Thickness     | <u>.250</u> |  |  |  |  |  |  |  |  | ins   |
| Weight        |             |  |  |  |  |  |  |  |  | lb/ft |

5. MEASUREMENTS from 1  ground level 2  top of casing casing height above ground level 3.28 ft.

| FROM ft       | TO ft          | 6. WELL LOG DESCRIPTION   | SWL ft |
|---------------|----------------|---|--------|
| 0             | 30             | LOAM TILL   |        |
| 30            | 35             | SILT SAND.  |        |
| 35            | 90             | TILL  |        |
| <del>90</del> | <del>101</del> |   |        |
| 90            | 95             | W/B SAND + GRAVEL + SILT VERY DRY                                   |        |
| 95            | 101            | W/B SAND + GRAVEL + SILT CLEANER ZONE.                              |        |
| 101           | 140            | TILL  |        |
| 140           | 150            | SILT SAND.  |        |
| 150           | 215            | TILL  |        |
|               |                | * 10" SURFACE SEAL FROM 0' - 20 FT                                  |        |
|               |                | * BACKFILL 215 TO 170 SAND + GRAVEL, 170 TO 101 FT 10-20' FINE SAND |        |

Pitless unit      ft 1  above 2  below ground level  
 1  Welded 2  Cemented 3  Threaded | 1  New 2  Used  
 Performations:     

Shoe(s): BARBER DRIVE SHOE  
 Open hole, from      to      ft Diameter      ins  
 Grout:     

10. SCREEN: 1  Nominal (Telescope) 2  Pipe Size  
 Type 1  Continuous Slot 2  Perforated 3  Louvre  Other  
 Material 1  Stainless Steel 2  Plastic  Other  
 Set from 97 to 101 ft below ground level

| RISER, SCREEN & BLANKS |             |             |  |  |  | units |
|------------------------|-------------|-------------|--|--|--|-------|
| Length                 | <u>2.5</u>  | <u>4</u>    |  |  |  | ft    |
| Diam. I.D.             | <u>5</u>    | <u>5</u>    |  |  |  | ins   |
| Slot Size              | <u>0</u>    | <u>.040</u> |  |  |  | ins   |
| from                   | <u>94.5</u> | <u>97</u>   |  |  |  | ft    |
| to                     | <u>97</u>   | <u>101</u>  |  |  |  | ft    |

Fittings, top KAPLER bottom THREADED PLUG  
 Gravel Pack     

11. DEVELOPED BY: 1  Surging 2  Jetting 3  Air 4  Boiling 5  Pumping  Other
12. TEST 1  Pump 2  Bail 3  Air Date 05/12/06  
 Rate 40 USgpm Temp      °C SWL before test      ft  
 Water Level      ft after test of      hrs

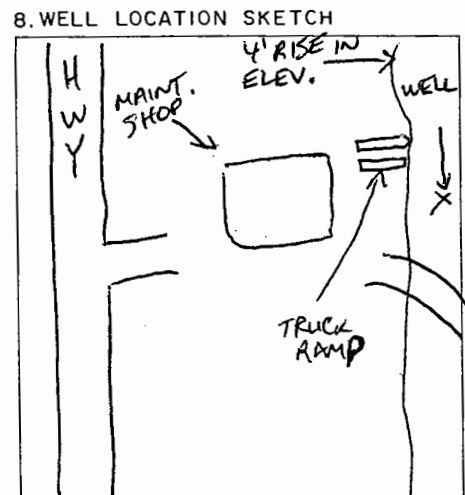
| DRAWDOWN in ft |    |      |    | RECOVERY in ft |    |      |    |
|----------------|----|------|----|----------------|----|------|----|
| mins           | WL | mins | WL | mins           | WL | mins | WL |
|                |    |      |    |                |    |      |    |
|                |    |      |    |                |    |      |    |

13. RECOMMENDED PUMP TYPE      RECOMMENDED PUMP SETTING      ft RECOMMENDED PUMPING RATE      USgpm

14. WATER TYPE: 1  Fresh 2  Salty 3  Clear 4  Cloudy  
 colour NO smell SULFUR; gas 1  yes 2  no  
SIGHT

15. WATER ANALYSIS: 1 Hardness      mg/L  
 2 Iron      mg/L 3 Chloride      mg/L  
 4 pH      Field Date      Lab Date     

7. CONSULTANT       
 Address     



SITE ID No      Lab Date     

16. FINAL WELL COMPLETION DATA  
 Well Depth 110.1 ft Well Yield 40 PUMP USgpm  
 Static Water Level 2 A.G.L. ft Artesian Flow YES? USgpm Pressure Head      ft  
 Back filter BACK FILLED W/ 10-20 FILTER SAND  
 Well Head Completion HINGED LOCKABLE PLATE

17. DRILLER PLEASE PRINT      Signature     

18. CONTRACTOR, DOUBLE D DRILLING LTD.  
 Address Box 766 TERRACE B.C. V8G 4R1  
(250) 635-7877