



VIDEO TAPE  
 Made By COLOG On 1-9-04  
 Shows Retainer At 262'

CONDUCTOR PIPE  
 20" CMP Installed in a 48" Diameter Hole  
 40' Deep, Backfilled With Ready-Mix Concrete

DRILL HOLE  
 17 1/2" Diameter Hole  
 Drilled To Total Depth of 535'

WELL CASING (13 3/8" Diameter) to 240'  
 Installed With Tremie Pipes While Pumping  
 Submersible Pump @ 300 gpm.  
 Pumped 520 Sacks @ 15.1 to 15.9 ppg.

METAL PETAL BASKETS  
 Set @ 232'-234' and 236'-238'  
 With Pea Gravel Cover

RETAINER: Currently Wedged In Bore  
 Hole @ Depth Of 262' With Artesian  
 Flows Coming Up Around It

RETAINER PLACEMENT: First Attempt Set And Pumped  
 Up, Recorded Pressure Of 343 psi (Corrected). Pushed  
 Retainer Up To Depth Of 367'.  
 Failed Attempt To Cement In Place. Failed Attempts  
 To Retrieve Retainer.

CEMENTED CASING (13 3/8" Diameter): While Attempting  
 To Install Well Casing This Lower Portion Was Cemented  
 In-Place. Casing Was Cut At About 530' To Allow  
 Installation Of Cemented Casing.

UPPER ARTESIAN FLOW  
 Pressure Unknown.  
 Determined By Temperature Log.

LOWER ARTESIAN FLOW  
 Pressure Is 343 psi. Determined During  
 Failed Attempt To Install Retainer At 385'

June 2006  
 DATE  
 PROJECT NO.  
 well.dwg  
 FILE NO.

SHEET TITLE  
**EXISTING BLUEWATER  
 WELL CONDITIONS**

PROJECT TITLE  
**BLUEWATER TROUT HATCHERY**

INFORMATION PROVIDED BY GREG  
 STAFFILENO, S.K. GEOTECHNICAL  
 AND GARY SHAVER, MONTANA  
 FISH, WILDLIFE AND PARKS