

**APPENDIX C**  
**Bishop Mill Hydrogeology Investigation (SRK, 2010)**

---

2010 Report of Waste Discharge, Bishop Mill Project



SRK Consulting (U.S.), Inc.  
5250 Neil Road  
Suite 300  
Reno, NV 89502

reno@srk.com  
www.srk.com

Tel: +1.775.828.6800  
Fax: +1.775.828.6820

October 29, 2010

Mr. Don Wedman, President and Chief Executive Officer  
CMC Metals Ltd.  
Suite 305, 369 Terminal Avenue  
Vancouver, B.C. V6A 4C4  
Canada

Sent via e-mail:

[cmcmetals@shaw.ca](mailto:cmcmetals@shaw.ca)

**RE: Bishop Mill Hydrogeology Investigation, Inyo County, California**

Dear Mr. Wedman:

SRK Consulting (SRK), has prepared this letter to report the findings of the 2010 hydrogeology investigation. The 2010 investigation was conducted to address the Lahontan Regional Water Quality Control Board's (Board) comments 2.52 and 2.6, and comment 6.1.2, regarding additional characterization of the groundwater resources beneath the proposed Group A Waste Management Unit (WMU) at the Bishop Mill site, Inyo County, California. The Board has identified the following items related to groundwater characterization in the 2010 Report of Waste Discharge, Bishop Mill Project, which require additional data and/or further clarification before the Board can act on the application:

- Groundwater flow direction and gradient;
- Permeability and hydraulic conductivity of the aquifer;
- Pumping rate and capacity of the well proposed for process make-up water (PW-3);
- Drawdown extent and potential radius of influence based on the proposed pumping rate of the PW-3 production well;
- Affect of drawdown on the aquifer over time; and
- Background groundwater quality to complying with Title 27, section 20414(e)(6).

**1. Scope of Work**

The hydrogeology investigation initially began in August and was completed in October of 2010. During the week of August 9th, 2010, SRK visited the Bishop Mill site for the specific purpose of re-developing the existing monitoring wells (MW-1 and MW-2) to evaluate their usefulness and collect water level measurements and samples for water quality analyses. This information was used to develop a work plan to identify fore-mentioned items requiring clarification. The Work Plan was approved by the Board on September 27, 2010. The hydrogeology investigation proposed in the Work Plan was immediately initiated, and was completed on October 4, 2010. The Work Plan included completion of the following tasks:

- permitting monitoring well installation, development, sampling, and pumping test;



**Group Offices:**

Africa  
Asia  
Australia  
North America  
South America  
United Kingdom

**North American Offices:**

Denver 303.985.1333  
Elko 775.753.4151  
Fort Collins 970.407.8302  
Reno 775.828.6800  
Toronto 416.601.1445  
Tucson 520.544.3668

- Installation and development of groundwater monitoring wells;
- Hydraulic testing of the aquifer below the WMU;
- Sampling of the site monitoring well network;
- Data analysis; and
- Reporting.

These items were completed as detailed in the Work Plan. Deviations from the Work Plan included a decrease in the maximum sustainable pumping rate from 100 gallons per minute (gpm) to approximately 87 gpm during the course of the pumping test. The drilling method used to advance the boreholes was different than the method specified in the Work Plan. In addition, the development of groundwater monitoring wells MW-3 and MW-4 was initiated but not fully completed. Additional information pertaining to these deviations is provided in the sections below.

The appropriate permits were acquired prior to monitoring well installation and commencement of the pumping test. These permits included Inyo County Well Permits (approved by Andrew Kirk – Inyo Co. Health Department prior to drilling), Board well location approval (Tammy Lundquist – Board approved on September 27, 2010), State Wide Discharge to Land Permit (Harold Singer – Board approved on September 29, 2010). Well completion details are provided in **Attachment 1** to this letter and will be copied to the Board.

### 1.1. Monitoring Well Installation and Development

Drilling activities and monitoring well construction was completed by a California licensed driller (Reeves Drilling Company contracted by CMC Metals Ltd.) in accordance with Title 27 of the California Code of Regulations (CCR) Sections 20923 and 20925. Drill holes were advanced using mud rotary drilling techniques and wells were installed under the direct supervision of Inyo County, SRK, and CMC Metals Ltd (CMC).

On September 29, 2010 a borehole was advanced into groundwater to a total depth of 93 feet below ground surface (bgs) at the location shown on **Figure 1**, but it collapsed to a total depth of 88 feet bgs. MW-3 was completed in this borehole to a total depth of 88 feet bgs, and consists of 2-inch box thread, flush joint, schedule 40 PVC pipe with 0.01-inch factory perforations through the bottom 30 feet of the well. Well completion methods followed details laid out in the Work Plan. Well completion details and sanitary seal depth for MW-3 are provided in **Attachment 1** and summarized in **Table 1**.

On September 30, 2010 a borehole was advanced to a total depth of 53 feet below ground surface (bgs) at the location shown on **Figure 1**. MW-4 was completed in this borehole to a total depth of 53 feet bgs, and consists of 2-inch, box thread, flush joint, schedule 40 PVC pipe, with 0.01-inch factory perforations through the bottom 30 feet of the well. Well completion methods were administered as detailed in the Work Plan. Well completion details and sanitary seal depth for MW-4 are provided in **Attachment 1**, and summarized in **Table 1**.

The drilling company was contracted to complete the development of wells MW-3 and MW-4 with approved methods. Development of MW-3 began on September 30, 2010 via airlifting techniques; however, it was observed that this technique was not an effective method due to the static groundwater level and submergence depth necessary to achieve a desirable airlift for well development. SRK advised the use of bailers or a swabbing tool would be more effective for development of the wells. Consequently, water was bailed from MW-3, totaling approximately 30 gallons, and from MW-4 totaling about 10 gallons, in efforts to develop the two wells. The drilling contractor was not able to accommodate additional well development due to lack of equipment. SRK advises additional well development be conducted in the future.

Existing wells MW-1, MW-2 and PW-3 were also used during pump testing in PW-3. Well construction logs for existing wells are included with new logs for MW-3 and MW-4 in **Attachment 1**.

**Table 1: Well Completion Details**

| Well ID | Static Water Level (feet bgs) | Borehole Diameter (in) | Well Diameter (in) | Total Depth (feet bgs) | Blank Casing (ft bgs) | Screen (ft bgs) | Filter Pack (ft bgs) | Sanitary Seal (ft bgs) |
|---------|-------------------------------|------------------------|--------------------|------------------------|-----------------------|-----------------|----------------------|------------------------|
| MW-1    | 35.5                          | 12                     | 5                  | 50                     | 0-40                  | 40-50           | 22-50                | 0-22                   |
| MW-2    | 40.95                         | 10                     | 4                  | 50                     | 0-30                  | 30-50           | 20-50                | 0-20                   |
| MW-3    | 64.59                         | 8.5                    | 2                  | 88                     | 0-58                  | 58-88           | 54-88                | 0-54                   |
| MW-4    | 42.8                          | 8.5                    | 2                  | 53                     | 0-23                  | 23-53           | 22-53                | 0-22                   |
| PW-3    | 47.45                         | --                     | 12                 | 130                    | 0-30                  | 30-130          | 30-130               | 0-30                   |

MW-1 and MW-2 were constructed with schedule 40 PVC pipe, perforation sizes are unknown, and the filter pack consist of Birdseye gravel.

MW-3 and MW-4 were constructed with 2" box thread, flush joint, schedule 40 PVC pipe, perforations are 0.010 inch factory slots, the filter pack consist of 2/12 washed, kiln dried, silica sand.

PW-3 well completion materials are unknown; screen interval, filter pack, and sanitary seal have been estimated.

## 1.2. Slug Tests

Slug tests were conducted in monitoring wells MW-1, MW-2, MW-3, and MW-4 by applying a known volume (slug) of water to each monitoring well, then measuring the rate of groundwater recovery to static conditions induced by displacement from the slug. All slug tests were initiated and completed on October 1, 2010. Prior to initiation of the slug tests, static water levels were measured with a water level indicator and recorded for each respective monitoring well. In addition, prior to testing, individual In-Situ LevelTroll 700® pressure transducers were programmed to monitor changes in pressure and head over time and placed at the bottom of each respective well via a direct-read cable. A water level indicator was used to determine when the groundwater returned to the pre-test static level, at which time the transducer was removed from the well and data downloaded for analysis.

## 1.3. Pumping Test

A 24-hour pumping test was designed to identify the characteristics of the aquifer beneath the proposed WMU. The pumping test was conducted via pumping in the PW-3 well (current production well) while monitoring for changes in water elevation in MW-1, MW-2, MW-3, and MW-4 (observation wells). Specifically, the pumping test was conducted to determine the hydraulic conductivity of the aquifer in which the PW-3 well is screened, in addition to defining the pumping rate, maximum yield, specific yield, drawdown, and the radius of influence induced by the PW-3 well.

Initial calculations and discussion with the Board identified a recommended discharge rate of 100 gpm to quantify the characteristics identified above. Prior to initiation of the pumping test, CMC removed the old pump and conducted additional development of the PW-3 well. CMC followed the PW-3 well development with the installation of a 5-hp Grundfos submersible pump designed with a pump capacity of over 100 gpm. In addition, a totalizing flow meter was fixed at the discharge point to measure immediate flow rates and the accumulated discharge. The discharge pipe was aligned and fixed to discharge water into the facility permitted by the Board under the General State Wide Discharge to Land Permit.

Prior to initiation of the pumping test, static water levels were measured with a water level indicator and recorded for all site wells. Individual In-Situ LevelTroll 700® pressure transducers were programmed to monitor changes in pressure and head over time and placed at the bottom of each respective observation well via a readout cable.

Once the transducers were programmed and installed the power feed to the pump was turned on. Initial pumping of the PW-3 well began on October 1, 2010. Discharge measurements were recorded from the flow

meter and initial water levels were measured in the PW-3 well. The pumping test was terminated after a 15-minute period due to the failure of the electrical circuitry of the pump. SRK terminated the recording of data on the pressure transducers. The aquifer was subsequently left overnight to recover to static conditions before reinitiating the pumping test the next day. On October 2, 2010 the pressure transducers were reprogrammed to record changes in head through the duration of the pumping test. An additional pressure transducer was programmed and installed in the PW-3 well during pumping. Pumping activities began at 8:23 on October 2, 2010 and were terminated at 8:23 on October 3, 2010.

Water levels were recorded by hand via a water level indicator in both the site observation wells and the pumping well throughout the duration of the pumping test, to support the pressure transducer data. In addition, the pumping test discharge was periodically recorded at the flow meter, and measurements of pH, total dissolved solids, electrical conductivity, and temperature were recorded from the discharge water through the duration of the discharge portion of the test. Visual inspections of the discharge containment facility were done throughout the operation for signs of erosion or embankment failure. No erosion or embankment failures occurred during the discharge. The average discharge was approximately 87 gpm and the total volume of the discharge was approximately 125,280 gallons, which was fully contained with approximately 5 feet of freeboard within the containment facility. The discharge water was left in the facility to be evaporated or infiltrate back into the system and had no noticeable impact on the pumping test.

Once pumping was terminated in Pw-3, the aquifer was left to recover to pre-measured static groundwater levels. Pressure transducers continued to record measurements throughout the recovery period. Water level measurements via a water level indicator assisted in determining when aquifer recovery had been completed. The recovery period was terminated at approximately 7:00 on October 4, 2010 when it was determined that the aquifer had sufficiently recovered to static conditions. At this time the pressure transducers in PW-3 and the observation wells were removed and the data was retrieved for analysis.

## 1.4. Data Analysis and Interpretation

### 1.4.1. Analysis of Slug Test

The retrieved slug test data were analyzed as falling head recovery tests, using the Hvorslev method (1951) for analyzing rising and falling-head (slug test) data to determine hydraulic conductivity (K).

According to the Hvorslev method, the logarithm of the ratio of residual drawdown to total drawdown,  $(H-h)/(H-H_0)$  is plotted versus time (t) on an arithmetic scale. Hydraulic conductivity is then derived using a value of  $t_0$  when recovery has reached 37 percent of the initial, maximum drawdown. Alternatively, the same analysis can be conducted by plotting the same relationship over time using data collected from the rate of a falling head of water throughout the test interval (i.e., falling-head slug test), which is the method chosen for this exercise. The results of these analyses, including the curves generated from the tests, are provided in **Attachment 2**. The hydraulic conductivities generated from these slug tests are tabulated in **Table 2**.

### 1.4.2. Analysis of Pumping Test

The data collected from the PW-3 pumping well and observation wells (MW-1, MW-2, MW-3, and MW-4) were plotted to show the respective residual drawdown and subsequent recovery resulting from the 24-hour pumping test. These plots are provided in **Attachment 2**. The average discharge from the PW-3 pumping well was approximately 87 gpm. The pump and recovery curve of tPW-3 show a flattening trend occurring from middle to late pumping periods. This trend suggests that no additional drawdown would occur and that steady state conditions were approximated during the test. A total drawdown of 5 feet was recorded in PW-3.

This information was used in tandem with the assumed well completion information for the PW-3 well to calculate the maximum yield and specific capacity of the well, and the hydraulic conductivity of the aquifer in which PW-3 is screened.

Hydraulic conductivity (K) was calculated from water level recovery data recorded in PW-3 following constant-rate pumping using the Theis straight-line recovery method (as described in Kruseman and DeRidder, 1970). Residual drawdown was plotted against the logarithm of the ratio of total time to recovery

time ( $T/t^*$ ). Typically, recovery curves show an early portion representing well-bore storage effects, followed in time (to the left on the graph) by a linear segment whose slope, along with pumping rate, can be used to estimate transmissivity of the test interval. These curves and an estimate of (K) are provided in **Attachment 2**. The K value is also shown in **Table 2**.

### 1.4.3. Calculations

In addition to the calculations and data interpretation methods described above for calculating hydraulic conductivity values, the following analysis were conducted (as described in C.W. Fetter, 2001) to determine groundwater flow direction, gradient, permeability, maximum yield and specific capacity of the PW-3 well, and radius of influence of the PW-3 well at the pumping rate of 87 gpm.

- **Flow direction:**

Calculated from AutoCAD groundwater elevation contours based on current groundwater measurements used to generate a potentiometric surface, where the flow direction is perpendicular to the groundwater contour lines from high to low head as shown on **Figure 1**.

- **Gradient:**

Calculated between groundwater contours and well pairs, where the gradient

$$(i) = (h_2 - h_1) / L$$

- **Permeability**

Defined from the relationship between hydraulic conductivity and permeability, where permeability ( $K_i$ ) =  $K\mu/Pg$

- **Maximum Yield of PW-3:**

$$\text{Yield} = \text{SC} \times \text{Drawdown}$$

- **Specific Capacity (SC) of PW-3:**

SC = Yield/Drawdown, where the Yield = the pumping rate

- **Drawdown**

Depth to Pumping Water Level – Static Water Level

- **Radius of Influence:**

Defined by the distance at which the head remains at  $h_0$  where, the radius of influence (R) can be derived from the Thiem Solution as shown below:

$$h - h_0 = \frac{Q}{2\pi T} \ln \left( \frac{r}{R} \right)$$

$$R = r / \text{Exp}(h - h_0 / (Q / 2\pi T))$$

#### Notations

|           |   |                      |
|-----------|---|----------------------|
| L         | Linear distance between $h_1$ and $h_2$   |                      |
| (i)       | Gradient  |                      |
| K         | Hydraulic Conductivity  |                      |
| P         | Density of water = 62lbs/ft <sup>3</sup>  |                      |
| g         | Acceleration of gravity = 32.174 ft/sec <sup>2</sup>  |                      |
| $\mu$     | Dynamic viscosity = 0.000673lbs/ft-sec  |                      |
| Q         | Discharge = 87 gpm  |                      |
| T         | Transmissivity (for radius of influence calculation assume MW-4 = 21.47 ft <sup>2</sup> /day) |                      |
| $h - h_0$ | Drawdown at the radial distance from (R)  |                      |
| R         | Radius of influence   |                      |
| r         | radial distance from pumping well   | SC Specific Capacity |

### 1.4.4. Interpretation of Data

**Table 2** presents a summary of test results analyzed as part of the Bishop Mill Hydrogeology Study. **Figure 1** shows the location of the wells, the general flow direction, groundwater contours, and the radius of influence of the PW-3.

**Table 2: Aquifer Summary Table**

| Aquifer Parameter                             | MW-1           | MW-2                    | MW-3        | MW-4          | PW-3           |
|---|----------------|-------------------------|-------------|---------------|----------------|
| Depth to Water (feet bgs)                     | 35.5           | 40.95                   | 64.59       | 42.8          | 47.45          |
| Approximate Surface Elevation (feet amsl)     | 4244.1         | 4249.2                  | 4276.5      | 4250.0        | 4258.0         |
| Approximate Groundwater Elevation (feet amsl) | 4208.6         | 4208.3                  | 4211.9      | 4207.2        | 4210.6         |
| Flow Direction                                | 87°            |                         |             |               |                |
| Gradient (feet/foot)                          | 0.013          |                         |             |               |                |
| Permeability (Darcy)                          | 1.25E-07       | 8.80E-08                | 7.34E-09    | 1.22E-08      | 6.22E-06       |
| Hydraulic Conductivity (ft/day)               | 1.02           | 0.72                    | 0.06        | 0.10          | 50.60          |
| Pumping Rate of PW-3 Pump (gpm)               |                |                         |             |               | 87             |
| Maximum Yield PW-3 (gpm)                      |                |                         |             |               | 86.3           |
| Specific Capacity of PW-3 (gpm/ft)            |                |                         |             |               | 17.3           |
| Drawdown (feet)                               | 0.48           | 0.33                    | 3.18        | 0.40          | 5.00           |
| Radius of Influence of PW-3 (ft)              |                |                         |             |               | 95             |
| Proximity from WMU                            | Cross Gradient | Down and Cross Gradient | Up Gradient | Down Gradient | Cross Gradient |
| Approximate Linear Distance to WMU (ft)       | 230            | 130                     | 80          | 90            | 80             |

Generally, the aquifer beneath the WMU flows from west to east, toward the valley floor at an average gradient of 0.013 feet/foot, from an elevation of 4,211.9 feet above mean sea level (amsl) shown in the upgradient MW-3 monitoring well to 4,207.2 feet amsl in the downgradient monitoring well MW-4. Groundwater is approximately 25 feet below the bottom elevation of the proposed WMU as shown in **Figure 2**.

The PW-3 well yielded a discharge of 87 gpm during the pumping test with a maximum yield of 86.3 gpm. Drawdown resulting from the 24-hour pumping test was observed in all wells. In PW-3, the maximum drawdown was 5 feet; with a resultant specific capacity of 17.3 gpm/ft. The radius of influence is calculated to be 95 feet. Generally, drawdown significantly decreased to less than 0.5 feet outside the radius of influence with the exception of MW-3.

As shown in **Attachment 2**, the pump and recovery curves generated from the MW-3 pressure transducer show a constant downward trend through the duration of the pumping test and a flattening trend during the recovery period. This data indicate that the well had probably not fully reached static conditions due to latent recovery of the water table after well installation and conditioning. Therefore, the drawdown shown in **Table 2** for MW-3 is probably not representative of the actual drawdown that would have occurred had the water level been stable. The end of recovery water level corresponding to the flattening trend in the MW-3 curve was measured at 64.59 feet bgs and was determined to be representative of the aquifer upgradient of the WMU.

Hydraulic conductivity was calculated for each well and ranged from 0.06 ft/day in MW-3 to 50.60 ft/day in PW-3. Well development most likely influenced the resulting hydraulic conductivity calculated for MW-3 due to the “well skin” created from drilling polymer which had not fully been removed from well development. Therefore, the MW-3 hydraulic conductivity was not considered in the sites average distribution of hydraulic conductivities due to its anomalous nature. In MW-1, MW-2, and MW-4 the average hydraulic conductivity is approximately 0.40 ft/day, significantly less than the hydraulic conductivity calculated from the PW-3 pumping well of 50.60 ft/day. **Figure 2** presents a cross-section through the proposed WMU showing the surface and approximate groundwater elevation. MW-3, MW-4, and PW-3 are projected in the cross-section. The bottom elevations of the monitoring wells are similar and are screened through the upper portions of the aquifer beneath the proposed WMU, whereas the bottom elevation of the PW-3 well is significantly deeper than the monitoring wells and screened through a deeper more robust portion of the aquifer, resulting in the distinct difference in hydraulic conductivity values. This distribution suggests a gradational increase in hydraulic conductivity with depth, where the material in the upper portions of the aquifer directly beneath the WMU has relatively low permeability.

### 1.5. Water Quality

Groundwater samples were collected from all site wells. A groundwater sample of the PW-3 discharge was collected during the middle of the pumping tests, the remaining monitoring wells were sampled post pumping test recovery on October 4, 2010. The samples were collected in accordance with U.S. Environmental Protection Agency (EPA) ground water sampling procedures, via bailing with single use disposable bailers. Well volumes were respectively calculated. Approximately three well volumes were evacuated prior to collecting samples. In addition, measurements of pH, total dissolved solids, electrical conductivity, and temperature were recorded throughout the process of evacuating water from each well and prior to sampling. Water quality samples in addition to one Quality Control sample were submitted to a California certified laboratory for analysis - Western Environmental Testing Laboratory (WET). The samples were analyzed for constituents including dissolved metals and inorganic constituents identified by Inyo Co. Human Health Services. The results of the analyses have been tabulated in **Table 3** and have been compared to previous water quality analytical results for each respective well in addition to comparative values of EPA and California Maximum Contaminant Level (MCL) for drinking water.

Based on available analytical results from samples of groundwater collected from the aquifer at the Bishop Mill site, the groundwater quality generally meets EPA and California MCL. However, analytical results indicate exceedances of the drinking water MCL for Aluminum, Arsenic, and Lead in the upgradient monitoring well MW-3.



## 2. Conclusions and Recommendations

The items identified by the Board in the July 2010 Report of Waste Discharge for the Bishop Mill Project related to groundwater characterization that require additional data and/or further clarification before the Board can act on the application have been addressed in the hydrogeology investigation discussed herein. The results have been tabulated and discussed in the above sections. In summary:

- **Groundwater flow direction and gradient:**
  - 87° from west to east at 0.013 feet/foot
- **Permeability and hydraulic conductivity of the aquifer:**
  - Upper aquifer – 0.40 ft/day, lower aquifer – 50.6 ft/day
- **Pumping rate and capacity of the well proposed for process make-up water (PW-3):**
  - Pumping rate is 87 gpm with a capacity of 17.3 gallons/ft
- **Drawdown extent and potential radius of influence based on the proposed pumping rate of the PW-3 production well:**
  - Drawdown of 5 feet with a potential radius of influence of 95 feet
- **Affect of drawdown on the aquifer over time:**
  - No affect on drawdown outside the radius of influence at the maximum capacity and no affect on drawdown assumed based on the operational pumping rate of 20 gpm.
- **Background groundwater quality to complying with Title 27, section 20414(e)(6):**
  - Generally meets EPA and California drinking water MCL

SRK recommends additional well development be conducted on both groundwater monitoring wells MW-3 and MW-4.

## 3. References

Hvorslev, M.J., 1951, *Time lag and soil permeability in groundwater observations*. U.S.Army Corps of Engineers Waterways Experimentation Station, Bulletin 36.

Kruseman, G.P., and DeRidder, N.A., 1970, *Analysis and Evaluation of Pumping Test Data, 2nd edition*. International Institute for Land Reclamation and Improvement, Publication 47.

Fetter, C.W., 2001, *Applied Hydrogeology Fourth Edition*.

SRK appreciates the opportunity to continue to work with CMC on this project. Should you have any questions regarding this investigation, please call me at 775.828.6800.

Regards,



Matt Banta  
SRK Project Hydrogeologist

**Attachments:**

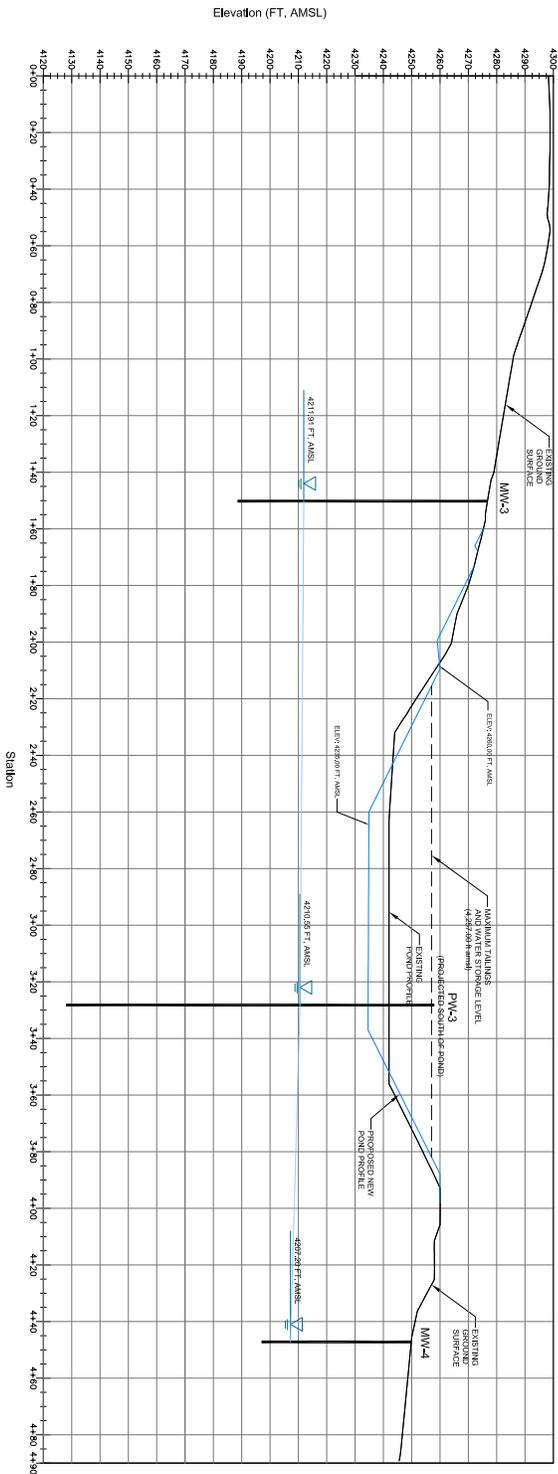
Attachment 1 – Well Completion Details  
Attachment 2 – Slug and Pump Test Curves and Test Results  
Attachment 3 – Laboratory Analytical Results

**Figures:**

Figure - 1 Wells, Flow Direction, Groundwater Contours, and Radius of Influence  
Figure – 2 Cross-Section of Proposed WMU Showing Approximate Groundwater Elevations

## **FIGURES**





POND CROSS-SECTION AAA  
SCALE: 1"=20'

|       |           |
|-------|-----------|
| Well  | tatic Wat |
| MW-   | (feet)    |
| MW-   | 64.1      |
| MW-   | 42        |
| PW-3  | 47.4      |
| Note: | N/A were  |
| MW-   | a sand    |
| kin d | Surface   |
| Below | pletion   |
| PW-3  |           |

|           |            |                   |                     |      |    |     |
|-----------|------------|-------------------|---------------------|------|----|-----|
| ISSUE NO. | ISSUE DATE | ISSUE DESCRIPTION | ISSUE AUTHORIZATION | DATE | BY | FOR |
| 1         |            |                   |                     |      |    |     |
| 2         |            |                   |                     |      |    |     |
| 3         |            |                   |                     |      |    |     |
| 4         |            |                   |                     |      |    |     |
| 5         |            |                   |                     |      |    |     |
| 6         |            |                   |                     |      |    |     |
| 7         |            |                   |                     |      |    |     |
| 8         |            |                   |                     |      |    |     |
| 9         |            |                   |                     |      |    |     |
| 10        |            |                   |                     |      |    |     |
| 11        |            |                   |                     |      |    |     |
| 12        |            |                   |                     |      |    |     |
| 13        |            |                   |                     |      |    |     |
| 14        |            |                   |                     |      |    |     |
| 15        |            |                   |                     |      |    |     |
| 16        |            |                   |                     |      |    |     |
| 17        |            |                   |                     |      |    |     |
| 18        |            |                   |                     |      |    |     |
| 19        |            |                   |                     |      |    |     |
| 20        |            |                   |                     |      |    |     |
| 21        |            |                   |                     |      |    |     |
| 22        |            |                   |                     |      |    |     |
| 23        |            |                   |                     |      |    |     |
| 24        |            |                   |                     |      |    |     |
| 25        |            |                   |                     |      |    |     |
| 26        |            |                   |                     |      |    |     |
| 27        |            |                   |                     |      |    |     |
| 28        |            |                   |                     |      |    |     |
| 29        |            |                   |                     |      |    |     |
| 30        |            |                   |                     |      |    |     |
| 31        |            |                   |                     |      |    |     |
| 32        |            |                   |                     |      |    |     |
| 33        |            |                   |                     |      |    |     |
| 34        |            |                   |                     |      |    |     |
| 35        |            |                   |                     |      |    |     |
| 36        |            |                   |                     |      |    |     |
| 37        |            |                   |                     |      |    |     |
| 38        |            |                   |                     |      |    |     |
| 39        |            |                   |                     |      |    |     |
| 40        |            |                   |                     |      |    |     |
| 41        |            |                   |                     |      |    |     |
| 42        |            |                   |                     |      |    |     |
| 43        |            |                   |                     |      |    |     |
| 44        |            |                   |                     |      |    |     |
| 45        |            |                   |                     |      |    |     |
| 46        |            |                   |                     |      |    |     |
| 47        |            |                   |                     |      |    |     |
| 48        |            |                   |                     |      |    |     |
| 49        |            |                   |                     |      |    |     |
| 50        |            |                   |                     |      |    |     |
| 51        |            |                   |                     |      |    |     |
| 52        |            |                   |                     |      |    |     |
| 53        |            |                   |                     |      |    |     |
| 54        |            |                   |                     |      |    |     |
| 55        |            |                   |                     |      |    |     |
| 56        |            |                   |                     |      |    |     |
| 57        |            |                   |                     |      |    |     |
| 58        |            |                   |                     |      |    |     |
| 59        |            |                   |                     |      |    |     |
| 60        |            |                   |                     |      |    |     |
| 61        |            |                   |                     |      |    |     |
| 62        |            |                   |                     |      |    |     |
| 63        |            |                   |                     |      |    |     |
| 64        |            |                   |                     |      |    |     |
| 65        |            |                   |                     |      |    |     |
| 66        |            |                   |                     |      |    |     |
| 67        |            |                   |                     |      |    |     |
| 68        |            |                   |                     |      |    |     |
| 69        |            |                   |                     |      |    |     |
| 70        |            |                   |                     |      |    |     |
| 71        |            |                   |                     |      |    |     |
| 72        |            |                   |                     |      |    |     |
| 73        |            |                   |                     |      |    |     |
| 74        |            |                   |                     |      |    |     |
| 75        |            |                   |                     |      |    |     |
| 76        |            |                   |                     |      |    |     |
| 77        |            |                   |                     |      |    |     |
| 78        |            |                   |                     |      |    |     |
| 79        |            |                   |                     |      |    |     |
| 80        |            |                   |                     |      |    |     |
| 81        |            |                   |                     |      |    |     |
| 82        |            |                   |                     |      |    |     |
| 83        |            |                   |                     |      |    |     |
| 84        |            |                   |                     |      |    |     |
| 85        |            |                   |                     |      |    |     |
| 86        |            |                   |                     |      |    |     |
| 87        |            |                   |                     |      |    |     |
| 88        |            |                   |                     |      |    |     |
| 89        |            |                   |                     |      |    |     |
| 90        |            |                   |                     |      |    |     |
| 91        |            |                   |                     |      |    |     |
| 92        |            |                   |                     |      |    |     |
| 93        |            |                   |                     |      |    |     |
| 94        |            |                   |                     |      |    |     |
| 95        |            |                   |                     |      |    |     |
| 96        |            |                   |                     |      |    |     |
| 97        |            |                   |                     |      |    |     |
| 98        |            |                   |                     |      |    |     |
| 99        |            |                   |                     |      |    |     |
| 100       |            |                   |                     |      |    |     |

|           |            |                   |                     |      |    |     |
|-----------|------------|-------------------|---------------------|------|----|-----|
| ISSUE NO. | ISSUE DATE | ISSUE DESCRIPTION | ISSUE AUTHORIZATION | DATE | BY | FOR |
| 1         |            |                   |                     |      |    |     |
| 2         |            |                   |                     |      |    |     |
| 3         |            |                   |                     |      |    |     |
| 4         |            |                   |                     |      |    |     |
| 5         |            |                   |                     |      |    |     |
| 6         |            |                   |                     |      |    |     |
| 7         |            |                   |                     |      |    |     |
| 8         |            |                   |                     |      |    |     |
| 9         |            |                   |                     |      |    |     |
| 10        |            |                   |                     |      |    |     |
| 11        |            |                   |                     |      |    |     |
| 12        |            |                   |                     |      |    |     |
| 13        |            |                   |                     |      |    |     |
| 14        |            |                   |                     |      |    |     |
| 15        |            |                   |                     |      |    |     |
| 16        |            |                   |                     |      |    |     |
| 17        |            |                   |                     |      |    |     |
| 18        |            |                   |                     |      |    |     |
| 19        |            |                   |                     |      |    |     |
| 20        |            |                   |                     |      |    |     |
| 21        |            |                   |                     |      |    |     |
| 22        |            |                   |                     |      |    |     |
| 23        |            |                   |                     |      |    |     |
| 24        |            |                   |                     |      |    |     |
| 25        |            |                   |                     |      |    |     |
| 26        |            |                   |                     |      |    |     |
| 27        |            |                   |                     |      |    |     |
| 28        |            |                   |                     |      |    |     |
| 29        |            |                   |                     |      |    |     |
| 30        |            |                   |                     |      |    |     |
| 31        |            |                   |                     |      |    |     |
| 32        |            |                   |                     |      |    |     |
| 33        |            |                   |                     |      |    |     |
| 34        |            |                   |                     |      |    |     |
| 35        |            |                   |                     |      |    |     |
| 36        |            |                   |                     |      |    |     |
| 37        |            |                   |                     |      |    |     |
| 38        |            |                   |                     |      |    |     |
| 39        |            |                   |                     |      |    |     |
| 40        |            |                   |                     |      |    |     |
| 41        |            |                   |                     |      |    |     |
| 42        |            |                   |                     |      |    |     |
| 43        |            |                   |                     |      |    |     |
| 44        |            |                   |                     |      |    |     |
| 45        |            |                   |                     |      |    |     |
| 46        |            |                   |                     |      |    |     |
| 47        |            |                   |                     |      |    |     |
| 48        |            |                   |                     |      |    |     |
| 49        |            |                   |                     |      |    |     |
| 50        |            |                   |                     |      |    |     |
| 51        |            |                   |                     |      |    |     |
| 52        |            |                   |                     |      |    |     |
| 53        |            |                   |                     |      |    |     |
| 54        |            |                   |                     |      |    |     |
| 55        |            |                   |                     |      |    |     |
| 56        |            |                   |                     |      |    |     |
| 57        |            |                   |                     |      |    |     |
| 58        |            |                   |                     |      |    |     |
| 59        |            |                   |                     |      |    |     |
| 60        |            |                   |                     |      |    |     |
| 61        |            |                   |                     |      |    |     |
| 62        |            |                   |                     |      |    |     |
| 63        |            |                   |                     |      |    |     |
| 64        |            |                   |                     |      |    |     |
| 65        |            |                   |                     |      |    |     |
| 66        |            |                   |                     |      |    |     |
| 67        |            |                   |                     |      |    |     |
| 68        |            |                   |                     |      |    |     |
| 69        |            |                   |                     |      |    |     |
| 70        |            |                   |                     |      |    |     |
| 71        |            |                   |                     |      |    |     |
| 72        |            |                   |                     |      |    |     |
| 73        |            |                   |                     |      |    |     |
| 74        |            |                   |                     |      |    |     |
| 75        |            |                   |                     |      |    |     |
| 76        |            |                   |                     |      |    |     |
| 77        |            |                   |                     |      |    |     |
| 78        |            |                   |                     |      |    |     |
| 79        |            |                   |                     |      |    |     |
| 80        |            |                   |                     |      |    |     |
| 81        |            |                   |                     |      |    |     |
| 82        |            |                   |                     |      |    |     |
| 83        |            |                   |                     |      |    |     |
| 84        |            |                   |                     |      |    |     |
| 85        |            |                   |                     |      |    |     |
| 86        |            |                   |                     |      |    |     |
| 87        |            |                   |                     |      |    |     |
| 88        |            |                   |                     |      |    |     |
| 89        |            |                   |                     |      |    |     |
| 90        |            |                   |                     |      |    |     |
| 91        |            |                   |                     |      |    |     |
| 92        |            |                   |                     |      |    |     |
| 93        |            |                   |                     |      |    |     |
| 94        |            |                   |                     |      |    |     |
| 95        |            |                   |                     |      |    |     |
| 96        |            |                   |                     |      |    |     |
| 97        |            |                   |                     |      |    |     |
| 98        |            |                   |                     |      |    |     |
| 99        |            |                   |                     |      |    |     |
| 100       |            |                   |                     |      |    |     |

087787 B.C. LTD. (A WHOLLY-OWNED SUBSIDIARY OF CMG METALS)

|           |            |                   |                     |      |    |     |
|-----------|------------|-------------------|---------------------|------|----|-----|
| ISSUE NO. | ISSUE DATE | ISSUE DESCRIPTION | ISSUE AUTHORIZATION | DATE | BY | FOR |
| 1         |            |                   |                     |      |    |     |
| 2         |            |                   |                     |      |    |     |
| 3         |            |                   |                     |      |    |     |
| 4         |            |                   |                     |      |    |     |
| 5         |            |                   |                     |      |    |     |
| 6         |            |                   |                     |      |    |     |
| 7         |            |                   |                     |      |    |     |
| 8         |            |                   |                     |      |    |     |
| 9         |            |                   |                     |      |    |     |
| 10        |            |                   |                     |      |    |     |
| 11        |            |                   |                     |      |    |     |
| 12        |            |                   |                     |      |    |     |
| 13        |            |                   |                     |      |    |     |
| 14        |            |                   |                     |      |    |     |
| 15        |            |                   |                     |      |    |     |
| 16        |            |                   |                     |      |    |     |
| 17        |            |                   |                     |      |    |     |
| 18        |            |                   |                     |      |    |     |
| 19        |            |                   |                     |      |    |     |
| 20        |            |                   |                     |      |    |     |
| 21        |            |                   |                     |      |    |     |
| 22        |            |                   |                     |      |    |     |
| 23        |            |                   |                     |      |    |     |
| 24        |            |                   |                     |      |    |     |
| 25        |            |                   |                     |      |    |     |
| 26        |            |                   |                     |      |    |     |
| 27        |            |                   |                     |      |    |     |
| 28        |            |                   |                     |      |    |     |
| 29        |            |                   |                     |      |    |     |
| 30        |            |                   |                     |      |    |     |
| 31        |            |                   |                     |      |    |     |
| 32        |            |                   |                     |      |    |     |
| 33        |            |                   |                     |      |    |     |
| 34        |            |                   |                     |      |    |     |
| 35        |            |                   |                     |      |    |     |
| 36        |            |                   |                     |      |    |     |
| 37        |            |                   |                     |      |    |     |
| 38        |            |                   |                     |      |    |     |
| 39        |            |                   |                     |      |    |     |
| 40        |            |                   |                     |      |    |     |
| 41        |            |                   |                     |      |    |     |
| 42        |            |                   |                     |      |    |     |
| 43        |            |                   |                     |      |    |     |
| 44        |            |                   |                     |      |    |     |
| 45        |            |                   |                     |      |    |     |
| 46        |            |                   |                     |      |    |     |
| 47        |            |                   |                     |      |    |     |
| 48        |            |                   |                     |      |    |     |
| 49        |            |                   |                     |      |    |     |
| 50        |            |                   |                     |      |    |     |
| 51        |            |                   |                     |      |    |     |
| 52        |            |                   |                     |      |    |     |

# **ATTACHMENT 1**



ORIGINAL  
File with DWR

# STATE OF CALIFORNIA WELL COMPLETION REPORT

Refer to Instruction Pamphlet

No. **1091072**

Page \_\_\_ of \_\_\_

Owner's Well No. \_\_\_\_\_

Date Work Began 10/16/06 Ended 10/16/06

Local Permit Agency Inyo County Environmental Health

Permit No. \_\_\_\_\_ Permit Date \_\_\_\_\_

OWNER USE ONLY - DO NOT FILL IN

STATE WELL NO./STATION NO. \_\_\_\_\_

LATITUDE \_\_\_\_\_ LONGITUDE \_\_\_\_\_

APN/TRS/OTHER \_\_\_\_\_

| ORIENTATION (±)   |  |  | DRILLING METHOD |  | FLUID  |  | DESCRIPTION<br><i>Describe material, grain size, color, etc.</i> |
|---|--|--|-----------------|--|--------|--|--|
| VERTICAL <input checked="" type="checkbox"/> HORIZONTAL _____ ANGLE _____ (SPECIFY) |  |  | Rotary          |  | Mud    |  |  |
| DEPTH FROM SURFACE  |  |  | Ft.             |  | to Ft. |  |  |
| 0   |  |  | 5               |  |        |  | Sand   |
| 5   |  |  | 20              |  |        |  | pumice   |
| 20  |  |  | 40              |  |        |  | Coarse Gravel w/ Sand  |
| 40  |  |  | 45              |  |        |  | Clay   |
| 45  |  |  | 52              |  |        |  | Sand & Gravel  |
| 52  |  |  | 60              |  |        |  | Clay   |

**WELL OWNER**

Name Hayworth Mining Corp

Mailing Address P.O. Box 661 City Bishop State CA Zip 93514

**WELL LOCATION**

Address 4 miles N. of town, Rood Rd.

City Bishop County INYO COUNTY

APN Book 010 Page 140 Parcel 106

Township 6S Range 33E Section 4SW

Lat. \_\_\_\_\_ Long. \_\_\_\_\_

**LOCATION SKETCH**

WEST \_\_\_\_\_ EAST \_\_\_\_\_

Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Rivers, etc. and attach a map. Use additional paper if necessary. **PLEASE BE ACCURATE & COMPLETE.**

**ACTIVITY (±)**

NEW WELL

MODIFICATION/REPAIR

Deepen

Other (Specify) \_\_\_\_\_

DESTROY (Describe Procedures and the Under "GEOLOGIC")

**USES (±)**

**WATER SUPPLY**

Domestic    Pot

Irrigation    Ind

**MONITORING**

TEST WELL

**CATHODIC PROTECTION**

HEAT EXCHANGE

DIRECT PUSH

INJECTION

VAPOR EXTRACTION

SPARGING

REMEDIATION

OTHER (SPECIFY) \_\_\_\_\_

**WATER LEVEL & YIELD OF COMPLETED WELL**

DEPTH TO FIRST WATER 22 (Ft.) BELOW SURFACE

DEPTH OF STATIC WATER LEVEL 25 (Ft.) & DATE MEASURED 9/16/06

ESTIMATED YIELD \* \_\_\_\_\_ (GPM) & TEST TYPE \_\_\_\_\_

TEST LENGTH \_\_\_\_\_ (Hrs.) TOTAL DRAWDOWN \_\_\_\_\_ (Ft.)

\* May not be representative of a well's long-term yield.

| DEPTH FROM SURFACE | BORE-HOLE DIA. (Inches) | CASING (S) |        |      |      |                  |                            |                         | DEPTH FROM SURFACE | ANNULAR MATERIAL          |             |                |          |                       |  |                 |
|--------------------|-------------------------|------------|--------|------|------|------------------|----------------------------|-------------------------|--------------------|---------------------------|-------------|----------------|----------|-----------------------|--|-----------------|
|                    |                         | TYPE (±)   |        |      |      | MATERIAL / GRADE | INTERNAL DIAMETER (Inches) | GAUGE OR WALL THICKNESS |                    | SLOT SIZE IF ANY (Inches) | TYPE        |                |          |                       |  |                 |
|                    |                         | BLANK      | SCREEN | PIPE | PIPE |                  |                            |                         |                    |                           | CE-MENT (±) | BEN-TONITE (±) | FILL (±) | FILTER PA (TYPE/SIZE) |  |                 |
| 0                  | 30                      | 12"        | X      |      |      | PVC              | 6"                         | CL-200                  |                    | 0                         | 20          | X              |          |                       |  |                 |
| 30                 | 50                      | 12"        | X      |      |      | PVC              | 6"                         | CL-200                  | .032               | 20                        | 50          |                | X        |                       |  | Birds are grate |

**ATTACHMENTS (±)**

Geologic Log

Well Construction Diagram

Geophysical Log(s)

Soil/Water Chemical Analyses

Other \_\_\_\_\_

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

**CERTIFICATION STATEMENT**

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME Devis Drilling Inc.

(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)

ADDRESS P.O. Box 661 City Bishop State CA Zip 93514

Signed Devis Drilling Date Signed \_\_\_\_\_

C-57 LICENSED WATER WELL CONTRACTOR

## COMPLETION LOG

PROJECT BISHOP MILL

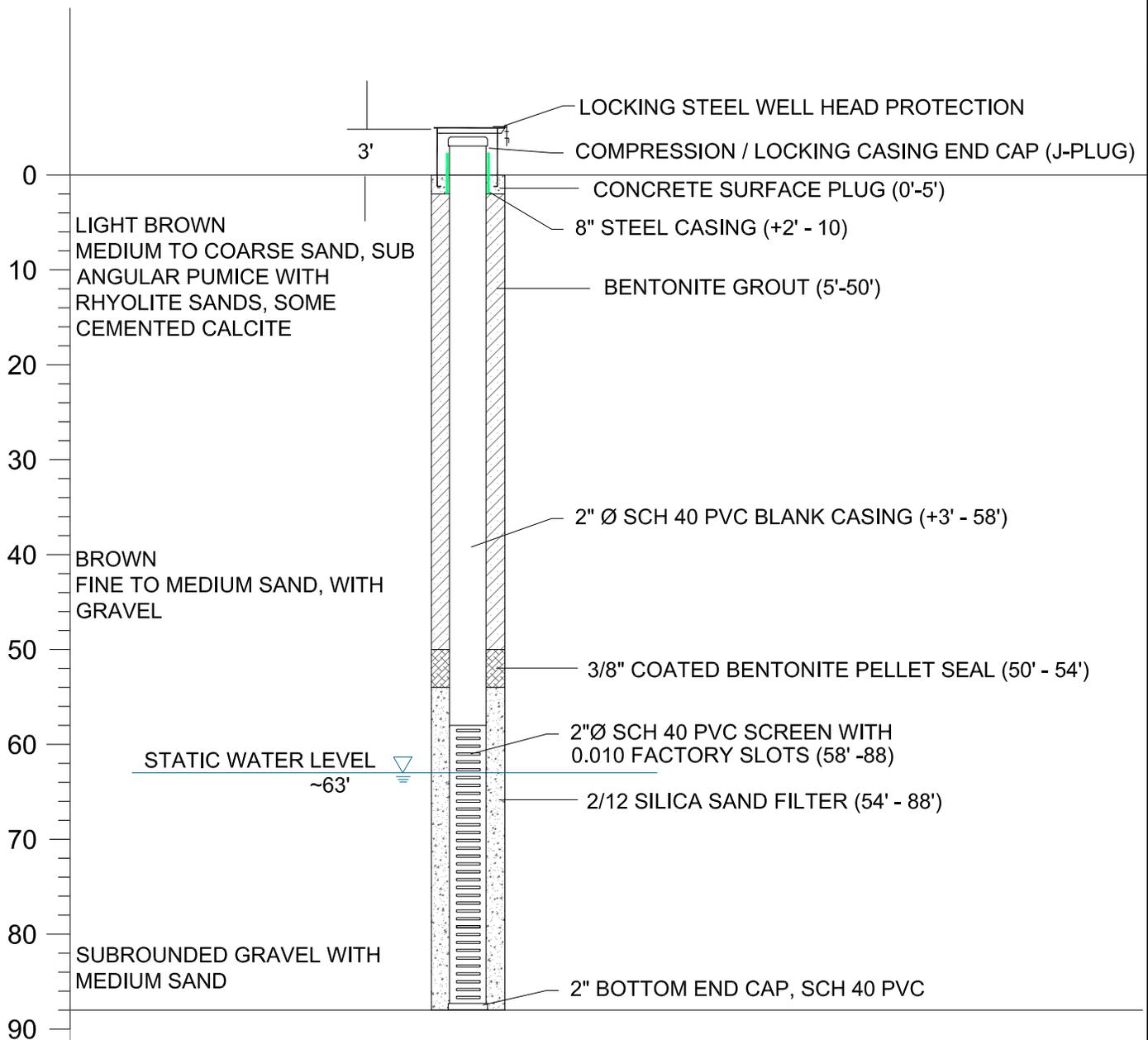
TOTAL DEPTH OF CASING: 88'

PROJECT NO. 204600.010

|                                     |   |   |
|-------------------------------------|---|---|
| LOGGED BY <u>MATT BANTA</u>         | DRILLER <u>REEVES DRILLING CO.</u>      | FLUID USED <u>POLYMER</u>               |
| DATE FINISH: <u>9/29/10</u>         | DRILL METHOD <u>MUD ROTARY</u>          | GROUT MATERIAL <u>BENTONITE GROUT</u>   |
| GROUND WATER ENCOUNTERED: <u>52</u> | HOLE DIAMETER <u>8.5"</u>               | SEAL MATERIAL <u>BENTONITE PELLETS</u>  |
| GROUND WATER STATIC: <u>63</u>      | SCREEN SIZE <u>0.010" FACTORY SLOTS</u> | FILTER MATERIAL <u>2/12 SILICA SAND</u> |
|                                     | CASING MATERIAL <u>2" SCH 40 PVC</u>    | OVERDRILL MATERIAL <u>NONE</u>          |

DEPTH (feet) 88'

### WELL CONSTRUCTION **MW-3**



## COMPLETION LOG

PROJECT BISHOP MILL

TOTAL DEPTH OF CASING: 53'

PROJECT NO. 204600.010

LOGGED BY MATT BANTA

DRILLER REEVES DRILLING CO.

FLUID USED POLYMER

DATE FINISH: 9/30/10

DRILL METHOD MUD ROTARY

GROUT MATERIAL BENTONITE GROUT

GROUND WATER ENCOUNTERED: 35

HOLE DIAMETER 8.5"

SEAL MATERIAL BENTONITE PELLETS

GROUND WATER STATIC: 43'

SCREEN SIZE 0.010" FACTORY SLOTS

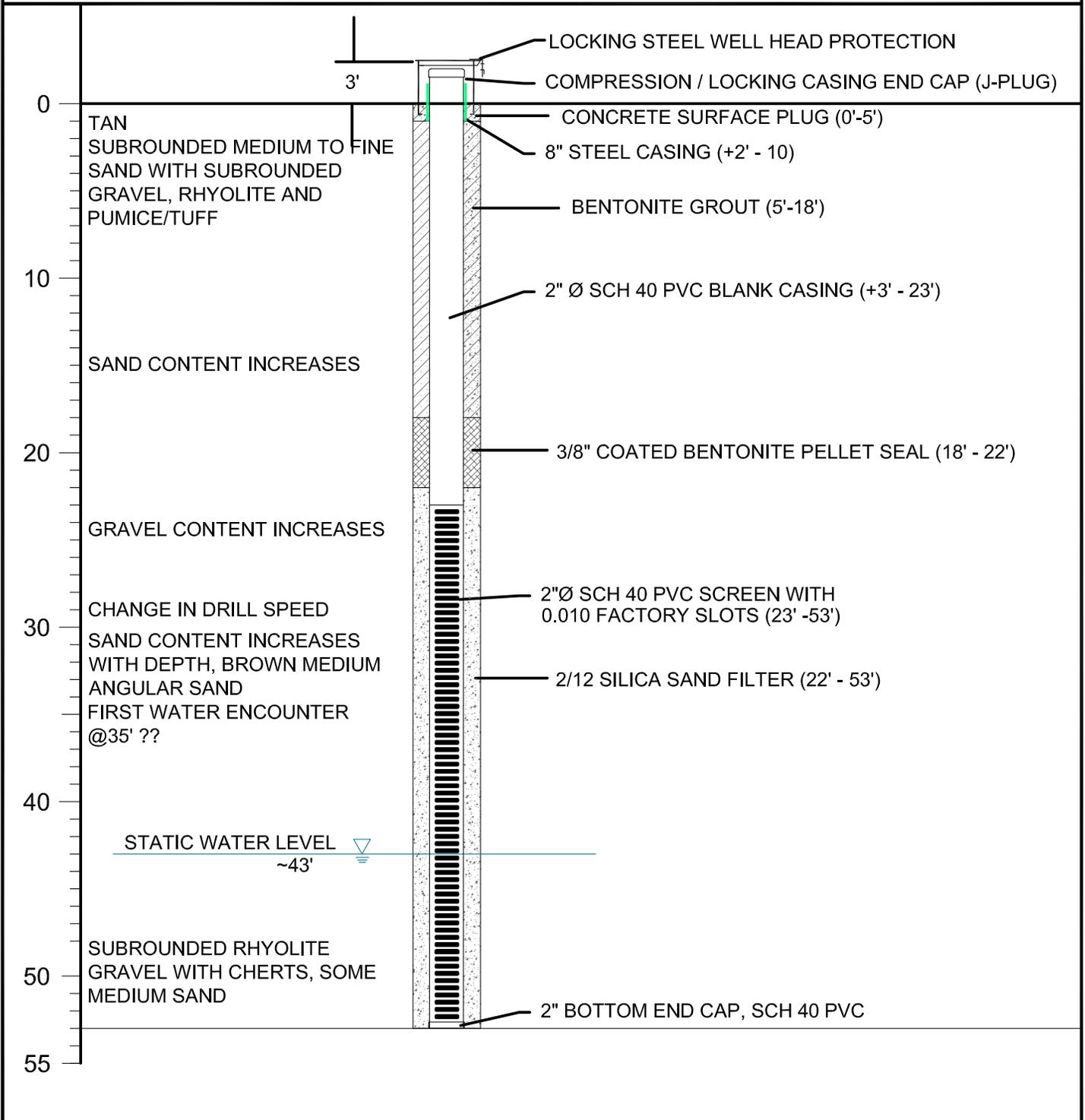
FILTER MATERIAL 2/12 SILICA SAND

CASING MATERIAL 2" SCH 40 PVC

OVERDRILL MATERIAL NONE

DEPTH (feet) 53'

WELL CONSTRUCTION **MW-4**



ORIGINAL File with DWR

# STATE OF CALIFORNIA WELL COMPLETION REPORT

Refer to Instruction Pamphlet

## No. 1091073

Page \_\_\_ of \_\_\_

Owner's Well No. \_\_\_\_\_

Date Work Began 10/13/06 Ended 10/13/06

Local Permit Agency INYO County Environmental

Permit No. \_\_\_\_\_ Permit Date 3/9/06

DWR USE ONLY - DO NOT FILL IN

STATE WELL NO./STATION NO.

LATITUDE LONGITUDE

APN/TRS/OTHER

### GEOLOGIC LOG

| ORIENTATION (✓)                              |                                     | DRILLING METHOD | FLUID                    | ANGLE (SPECIFY) |
|--|-------------------------------------|-----------------|--------------------------|-----------------|
| <input checked="" type="checkbox"/> VERTICAL | <input type="checkbox"/> HORIZONTAL | <u>ROTARY</u>   | <u>MUD</u>               |                 |
| DEPTH FROM SURFACE                           |                                     |                 |                          |                 |
| Fl.  | to                                  | Fl.             | DESCRIPTION              |                 |
| <u>0</u>                                     | <u>5</u>                            |                 | <u>Sand</u>              |                 |
| <u>5</u>                                     | <u>20</u>                           |                 | <u>Pumice</u>            |                 |
| <u>20</u>                                    | <u>40</u>                           |                 | <u>Sand gravel</u>       |                 |
| <u>40</u>                                    | <u>45</u>                           |                 | <u>Clay</u>              |                 |
| <u>45</u>                                    | <u>50</u>                           |                 | <u>Sand &amp; Gravel</u> |                 |
| <u>50</u>                                    | <u>65</u>                           |                 | <u>Sand &amp; Gravel</u> |                 |

WELL OWNER

Name Mammoth Lakes Mining Co

Mailing Address PO Box 1601 City Bishop State Ca ZIP 93516

Address 4 miles N of town, Bishop Ca

City BISHOP

County INYO COUNTY

APN Book 010 Page 140 Parcel 10 B

Township 6 S Range 37 E Section 4 SW

Lat. \_\_\_\_\_ N Long \_\_\_\_\_

LOCATION SKETCH

WEST EAST

Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Rivers, etc. and attach a map. Use additional paper if necessary. PLEASE BE ACCURATE & COMPLETE.

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER 22' (FL) BELOW SURFACE

DEPTH OF STATIC WATER LEVEL 31' (FL) & DATE MEASURED 9/13/06

ESTIMATED YIELD \* \_\_\_\_\_ (GPM) & TEST TYPE \_\_\_\_\_

TEST LENGTH \_\_\_\_\_ (Hrs.) TOTAL DRAWDOWN \_\_\_\_\_ (FL)

\* May not be representative of a well's long-term yield.

TOTAL DEPTH OF BORING 65' (Feet)

TOTAL DEPTH OF COMPLETED WELL 50' (Feet)

| DEPTH FROM SURFACE | BORE-HOLE DIA. (Inches) | CASING (S) |                  |     |    | INTERNAL DIAMETER (Inches) | GAUGE OR WALL THICKNESS | SLOT SIZE IF ANY (Inches) | DEPTH FROM SURFACE | ANNULAR MATERIAL TYPE |             |                |          |                         |
|--------------------|-------------------------|------------|------------------|-----|----|----------------------------|-------------------------|---------------------------|--------------------|-----------------------|-------------|----------------|----------|-------------------------|
|                    |                         | TYPE (✓)   | MATERIAL / GRADE | FL  | TO |                            |                         |                           |                    | FL                    | CE-MENT (✓) | BEN-TONITE (✓) | FILL (✓) | FILTER PAIL (TYPE/SIZE) |
| 0                  | 40                      | 12"        | X                | PVC | 5" | CL 200                     |                         | 0                         | 22                 | X                     |             |                |          |                         |
| 40                 | 30                      | 12"        | X                | PVC | 5" | CL 200                     | .032                    | 22                        | 50                 |                       |             |                |          | Birds etc Grave         |

ATTACHMENTS (✓)

Geologic Log

Well Construction Diagram

Geophysical Log(s)

Soil/Water Chemical Analyses

Other \_\_\_\_\_

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME Reeve Drilling Inc.

PERSON, FIRM OR CORPORATION (TYPE OR PRINTED)

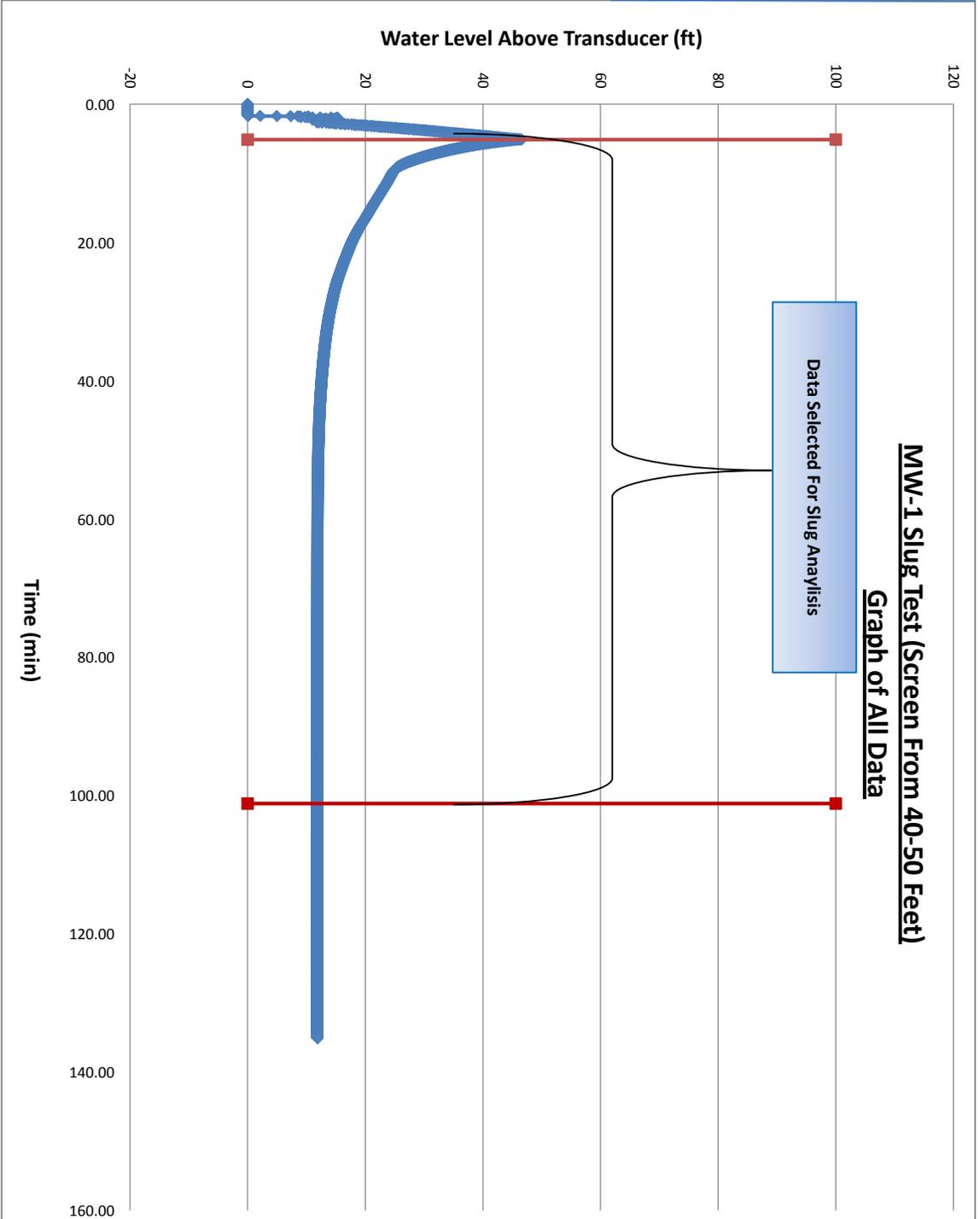
ADDRESS PO. Box 1601 City Bishop State Ca ZIP 93516

Signed Walter Reeve DATE SIGNED \_\_\_\_\_

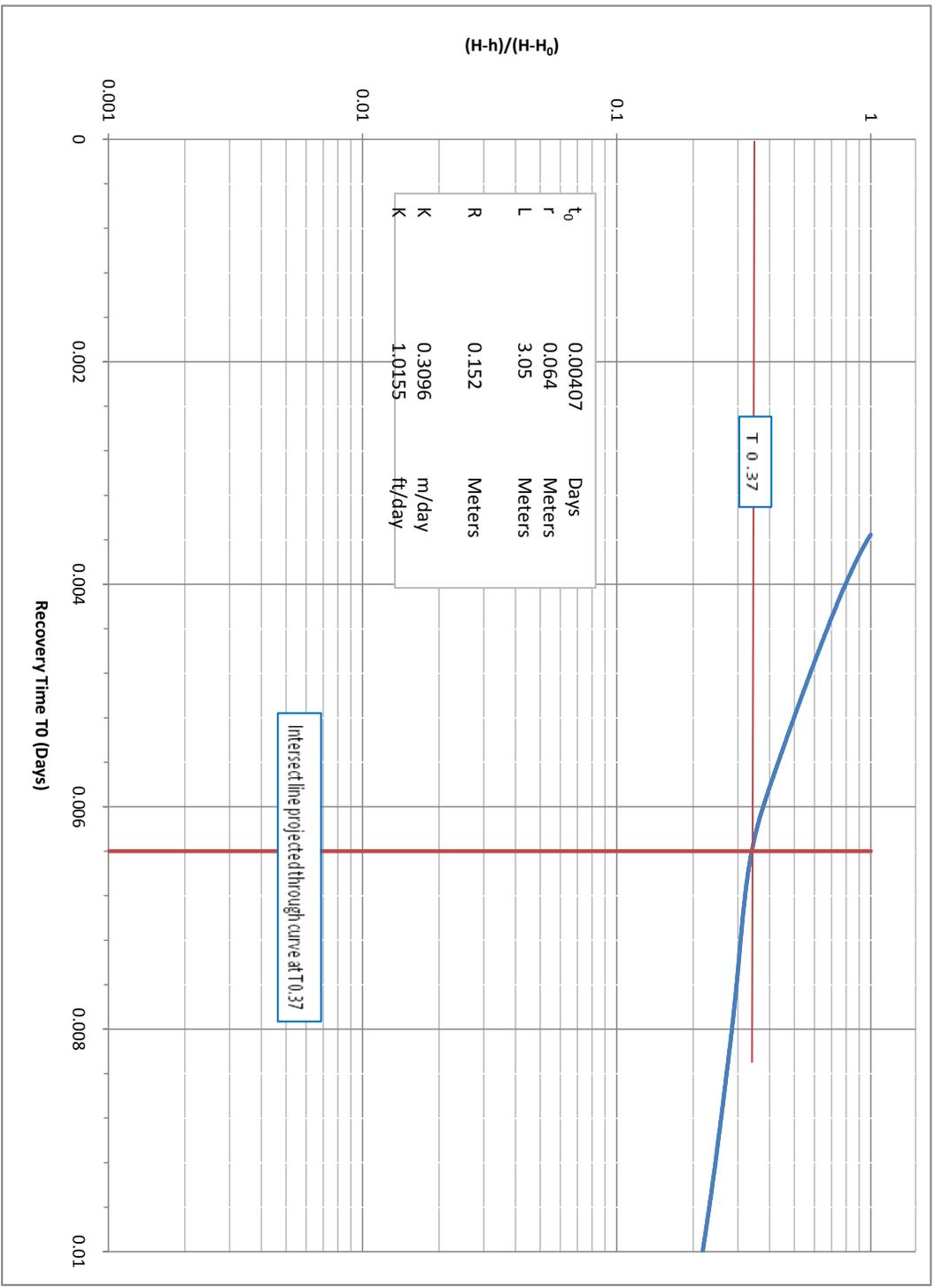
E-57 LICENSED WATER WELL CONTRACTOR

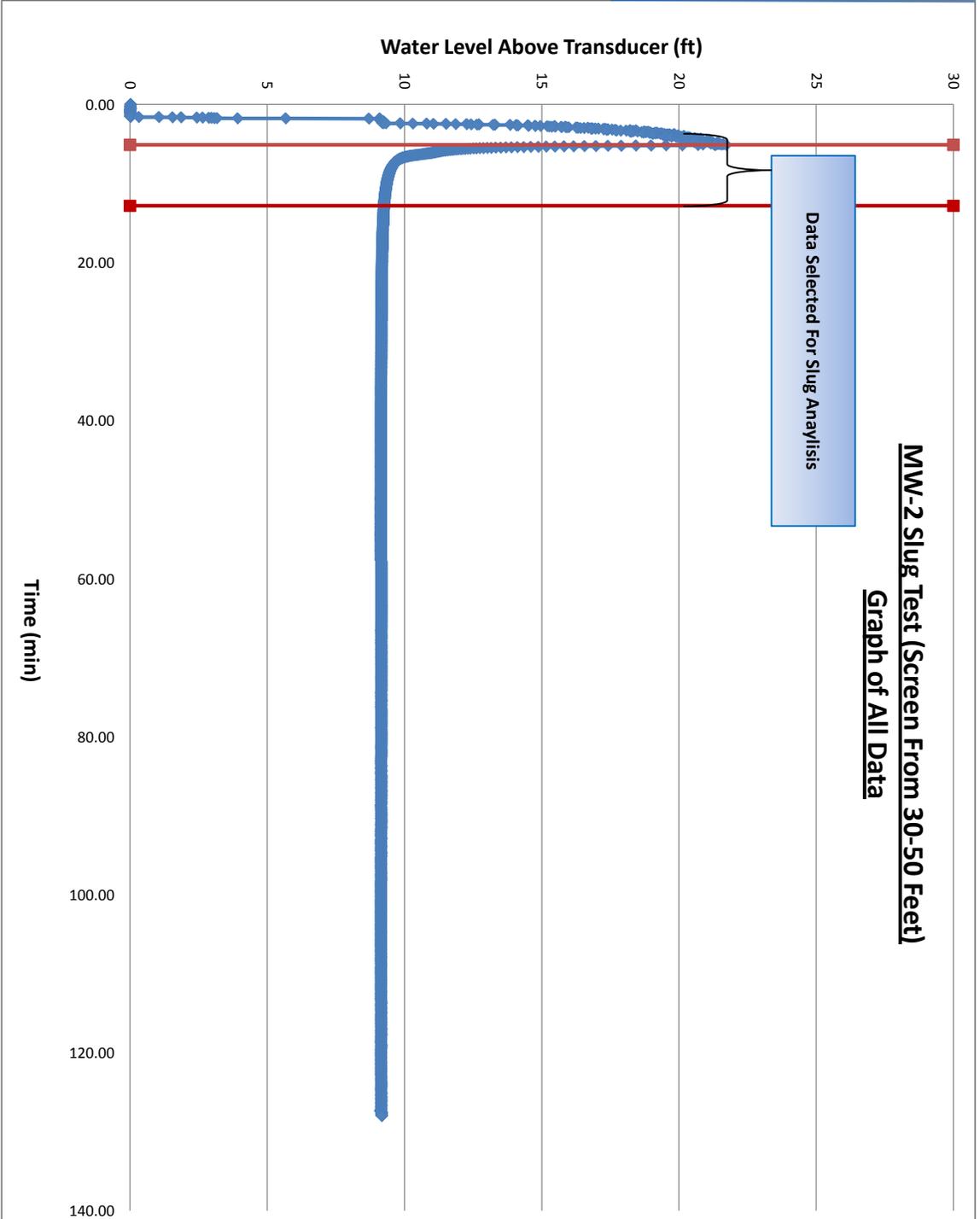
C-57 LICENSE NUMB 1021193

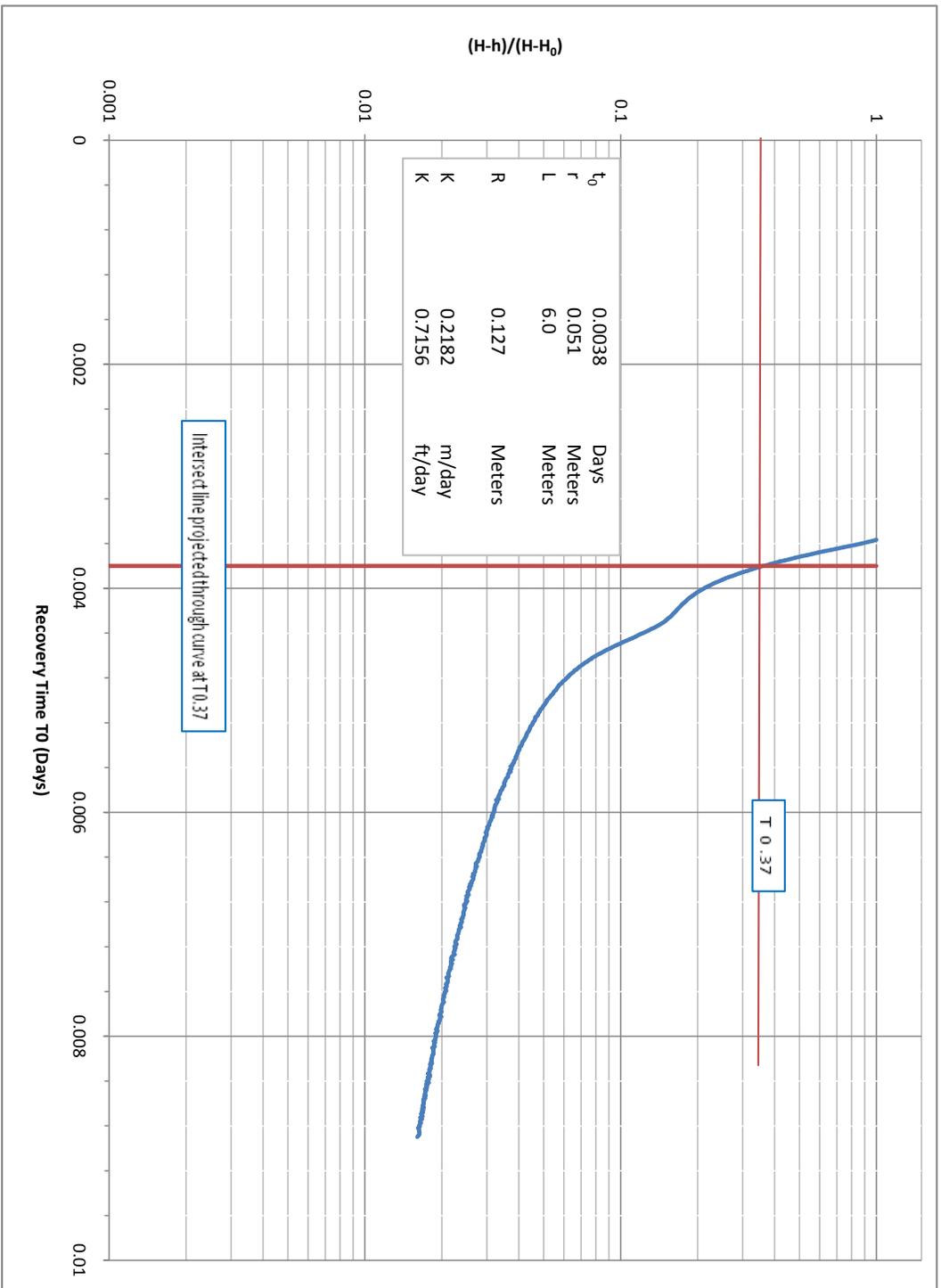
## **ATTACHMENT 2**

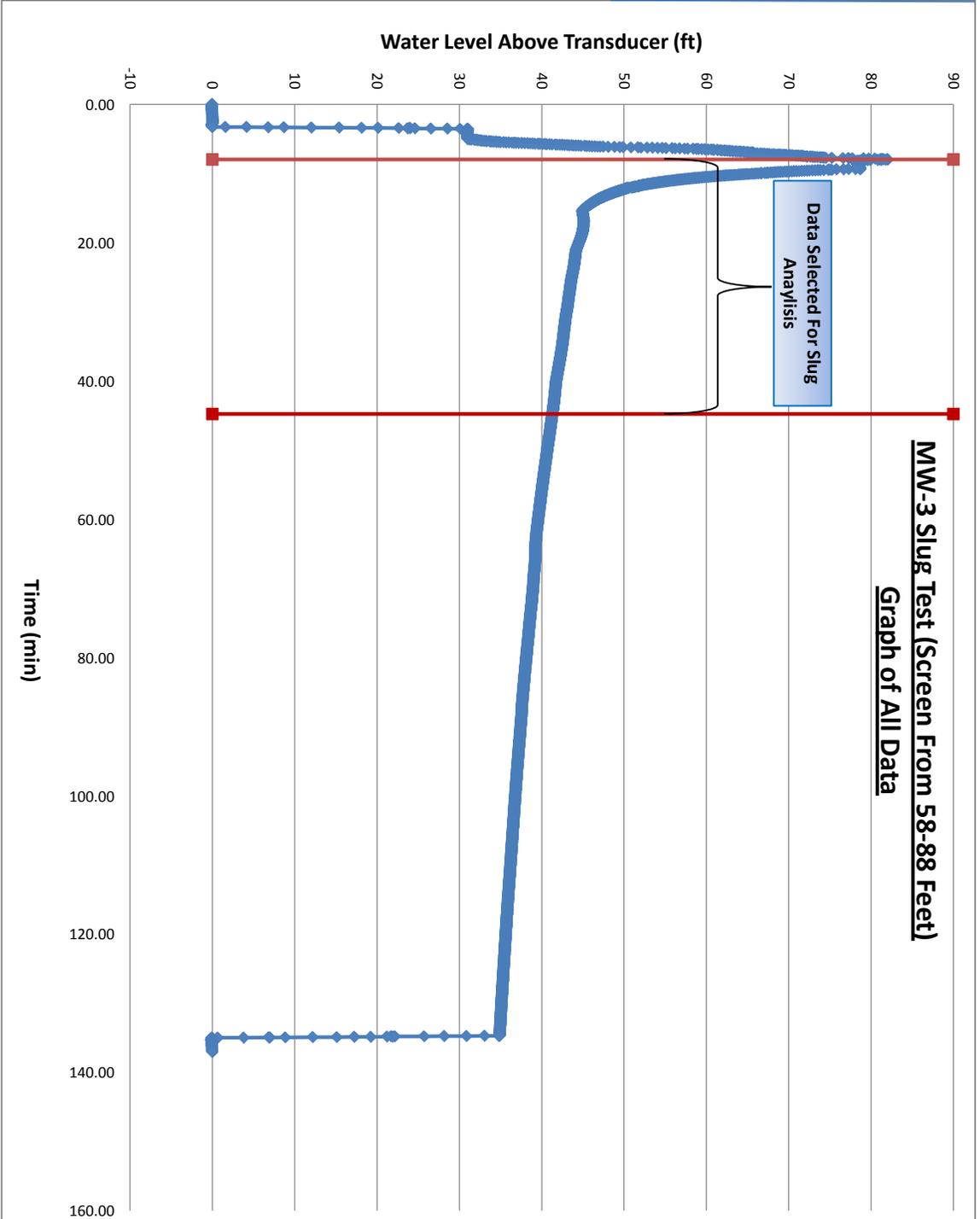


MW-1 Slug Test

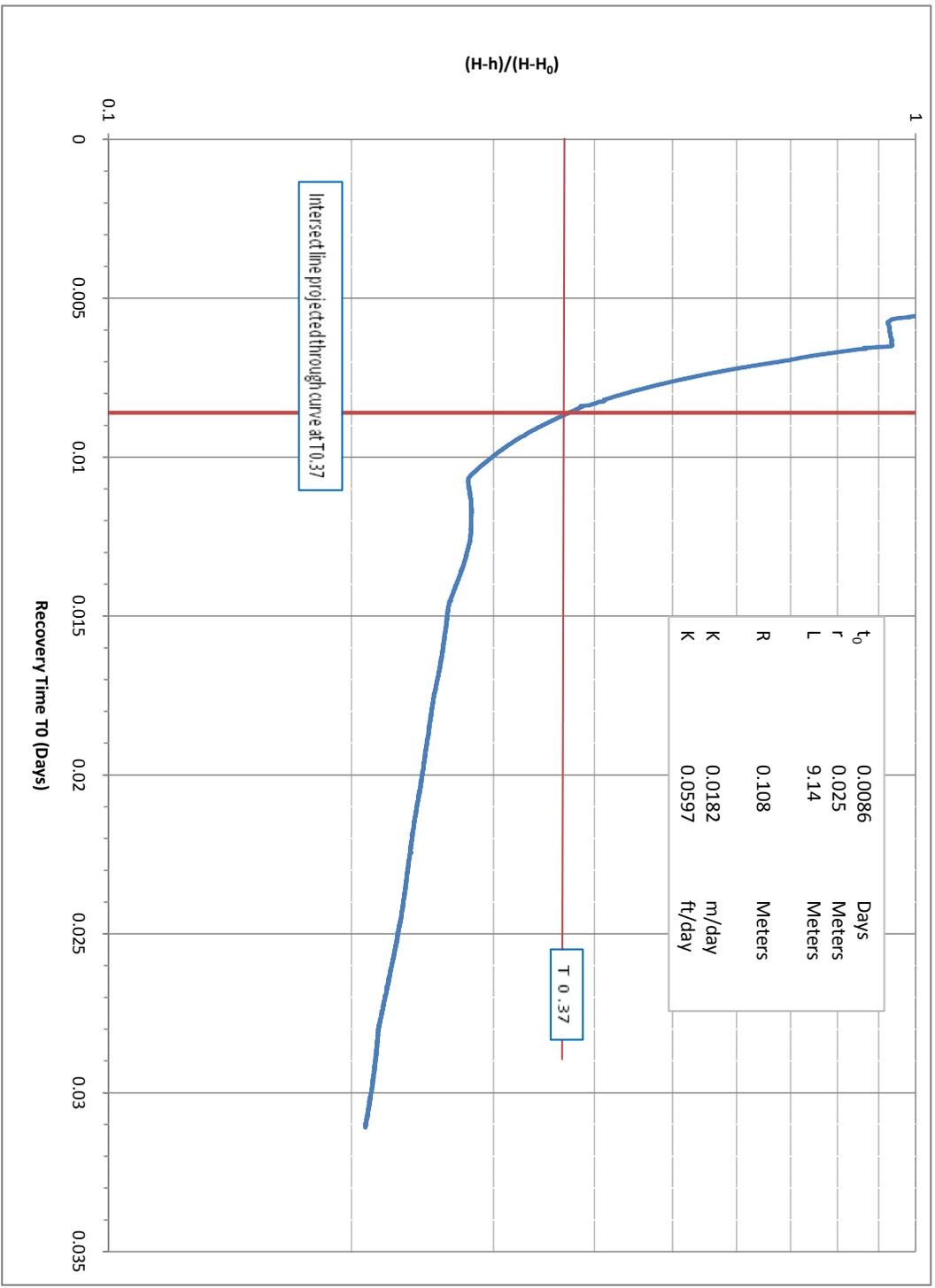


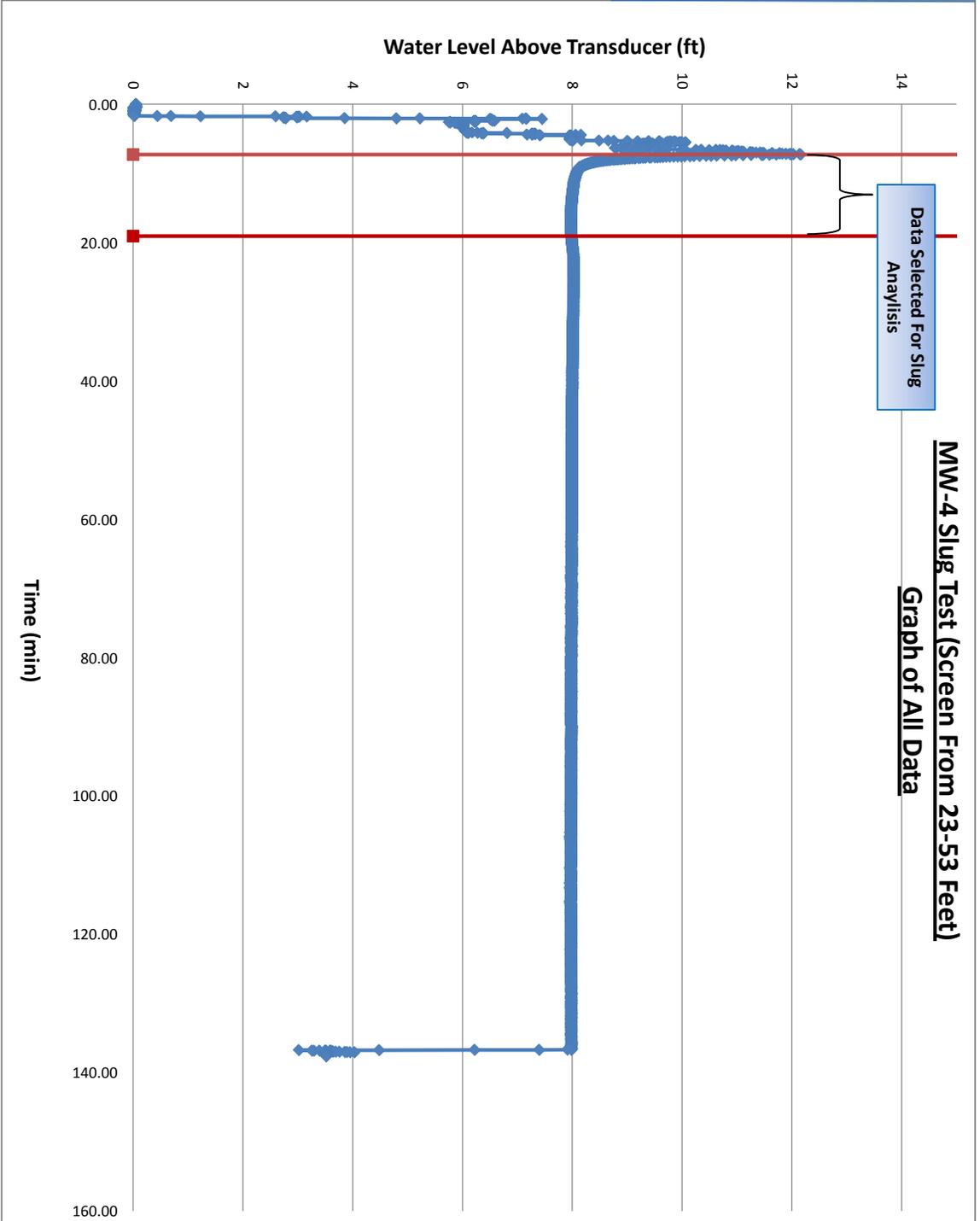


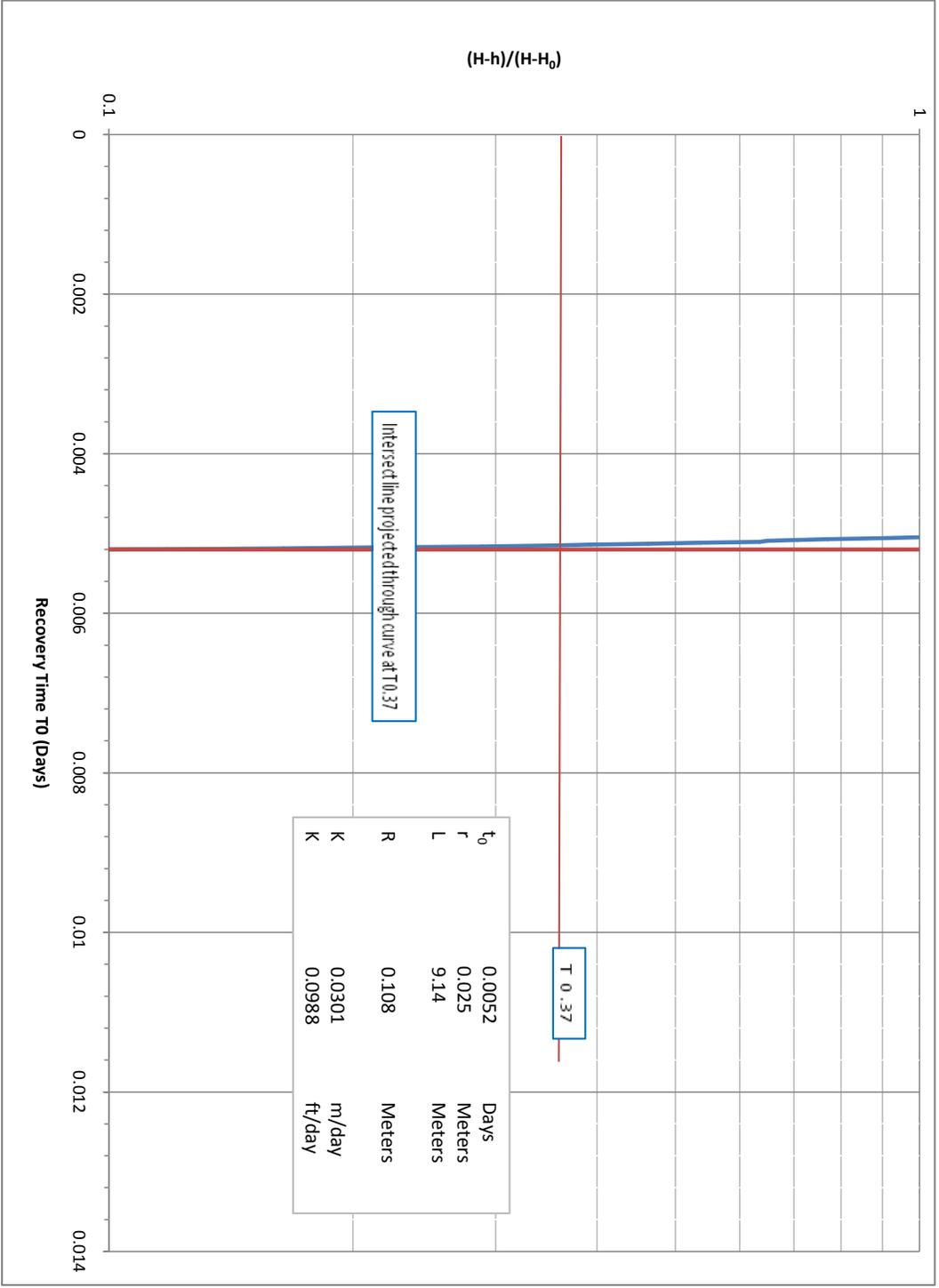




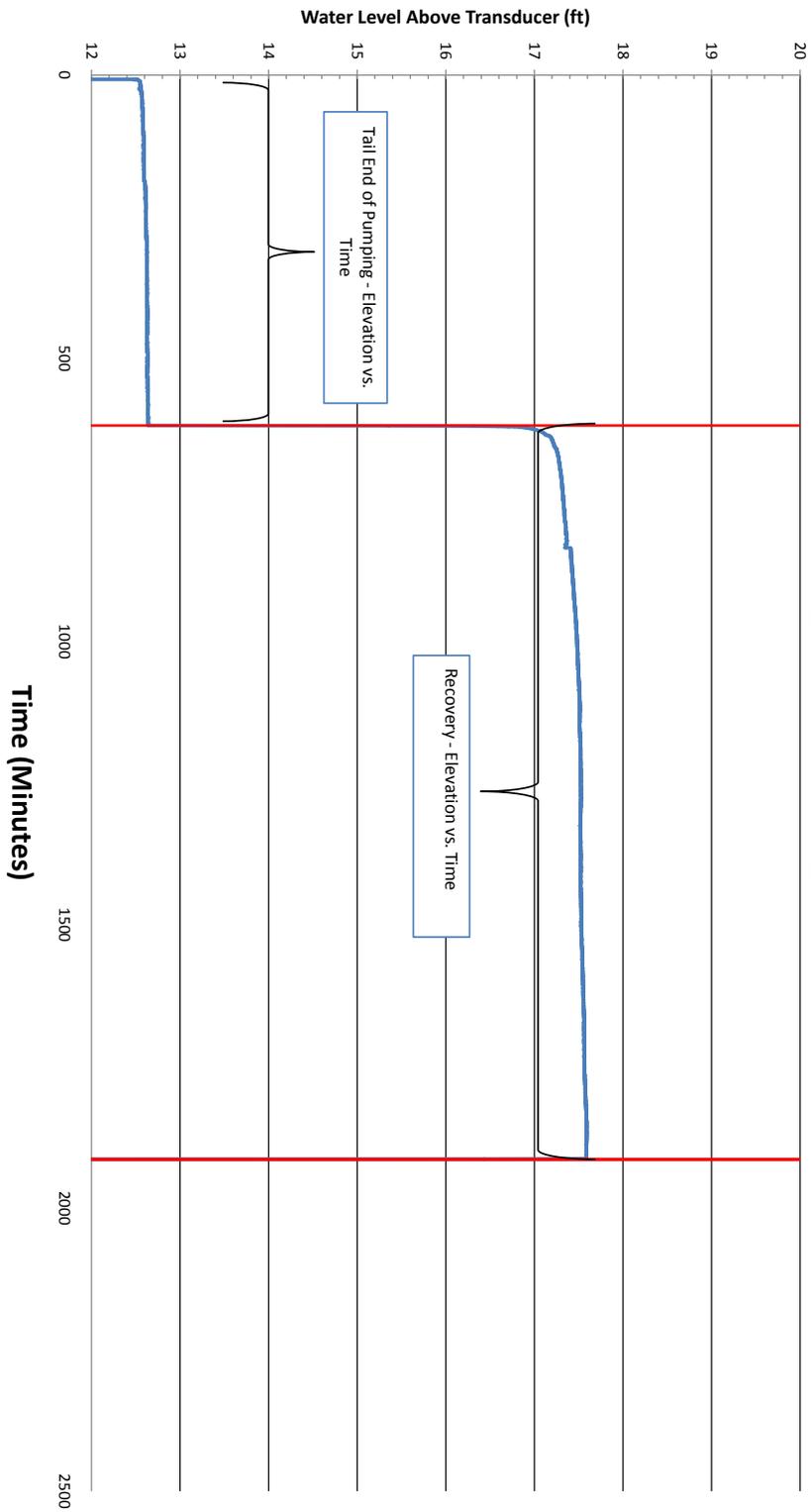
MW-3 Slug Test



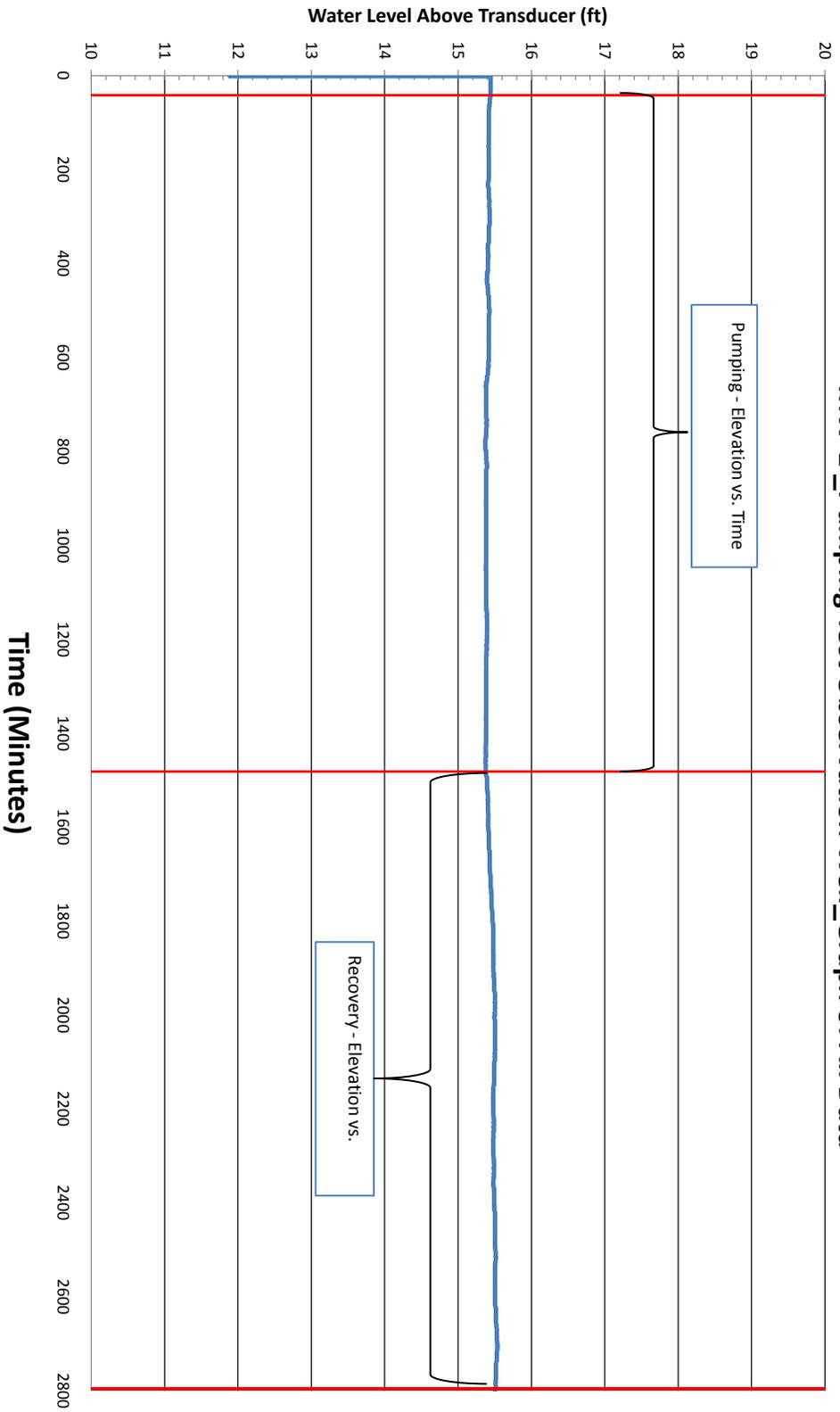




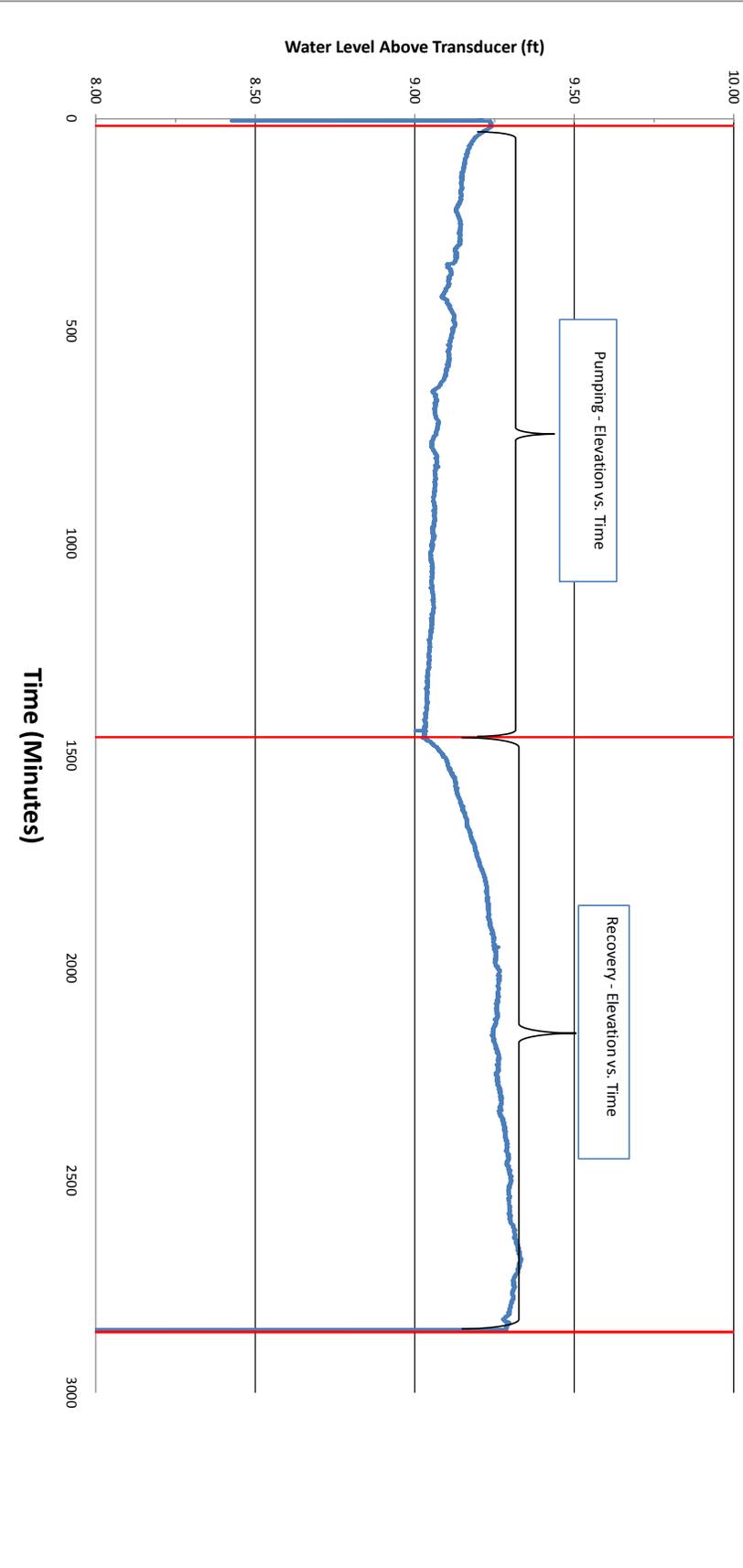
### PW-3\_Pumping Test Well\_Graph of All Data



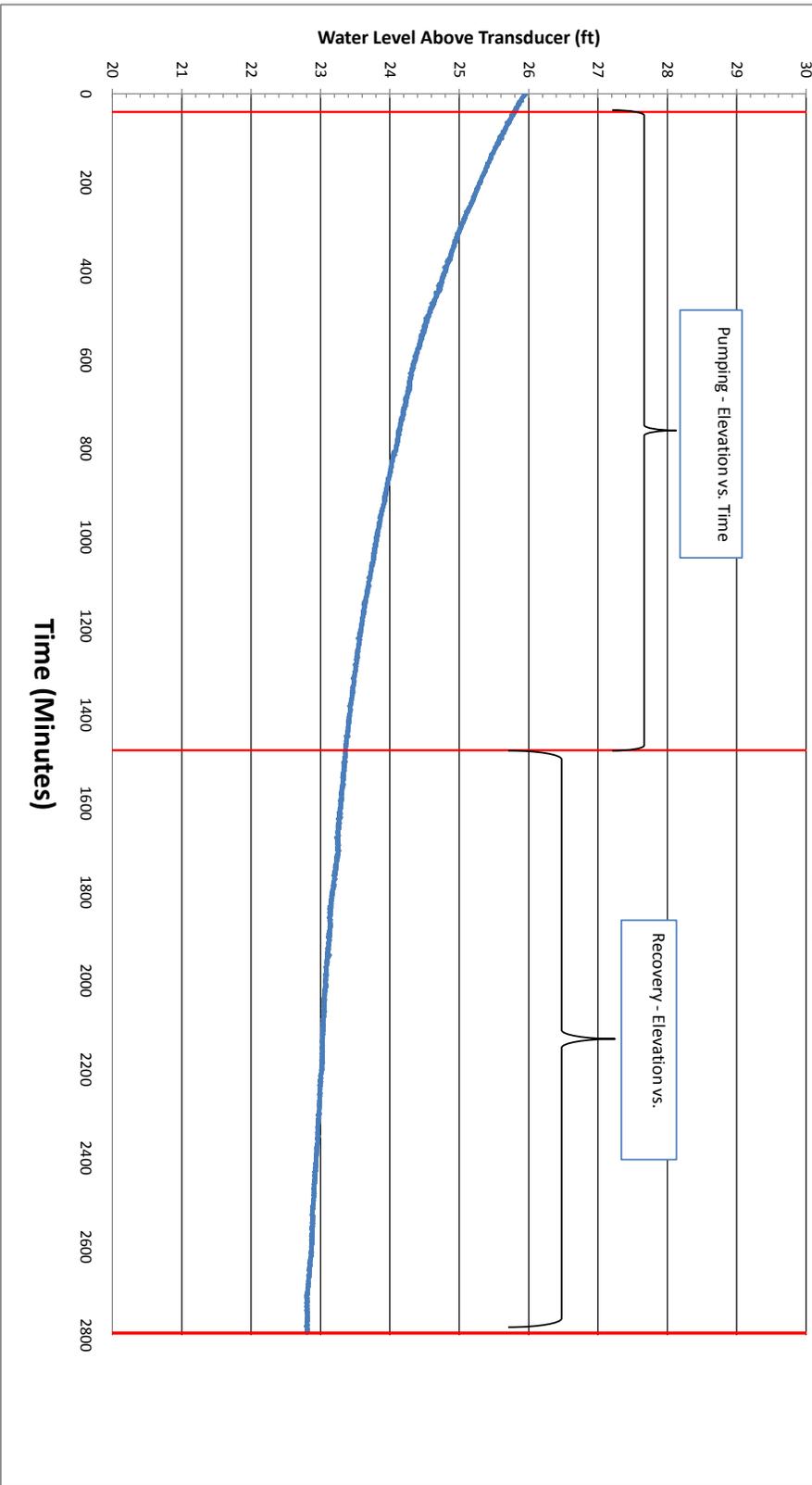
# MW-1\_Pumping Test Observation Well\_Graph of All Data



# MW-2\_Pumping Test Observation Well\_Graph of All Data



# MW-3\_Pumping Test Observation Well\_Graph of All Data



# MW-4\_Pumping Test Observation Well\_Graph of All Data

