

[illegible]

Method of Determination: ArcView

3. ☒ Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.
- ☒ Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.
- ☒ Aerial Photo Attached (required for irrigation of 10+ acres).
- ☒ Photo of Diversion and System Attached

4.

<u>Well or Diversion ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Pump Serial No. or Discharge Size</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1.

<u>Measurement Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

2. Measurements:

E. FLOW CALCULATIONS☒ Additional Computation Sheets Attached

Measured Method:
Based on the Hazen-Williams calculation the system can achieve 2.33 CFS

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 =$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} =$$

2. Volume Calculations for Other Uses:

G. NARRATIVE/REMARKS/COMMENTSHave conditions of permit approval been met? ☒ Yes ☐ No**H. RECOMMENDATIONS**

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
POWER	05/01 to 12/01	0.670 CFS	
<u>Totals:</u>		0.670 CFS	

2. Recommended Amendments

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other**I. AUTHENTICATION**Field Examiner's Name Joseph Larsen  Date October 23, 2007

Reviewer _____ Date _____

Hazen-Williams Equation Calculator

Permit No. 21-7382

Enter These Parameters From the Worksheet

Pipe Diameter (ft)	0.5
Pipe Length (ft)	2650
Elevation Drop (ft)	150
Values for Type of Pipe (Ch)	150
Discharge (cfs)	2.33

Pipe Values
150 -plastic PVC
140 -very Smooth
130 -cast iron
120 -wood, concrete
110 -riveted steel
100 -old cast iron
80 -badly corroded cast iron

Comment Report

21-7382

1. jlarsen 10/23/2007 Field Report Narrative

Comment: Spring has headbox that diverts water to a 6 inch PVC pipe. The pipe runs down hill for about a mile before entering the power turbine. After leaving the turbine the water drops into a return ditch delivering it back to the natural creek channel. The return channel is about 1 foot wide by one foot deep and around 20 feet in length.

2. jlarsen 10/23/2007 POU overlap Analysis

Comment: POUS that overlap QQs are:

1-340

21-2141

21-12975

21-12976

3. jlarsen 10/23/2007 POD

Comment: Updated shape

4. jlarsen 10/23/2007 POD

Comment: Updated PLS

5. jlarsen 10/23/2007 POU

Comment: Updated Shape

6. jlarsen 10/23/2007 POU

Comment: Updated PLS

[illegible]

14N42E31SWSE

14N42E31SESW

14N42E31SWSW

14N41E36SESE

13N42E6NENW

13N42E6NWNW

13N42E6NWNW

13N41E1NENE

13N42E6NWNW

13N42E6NWNW

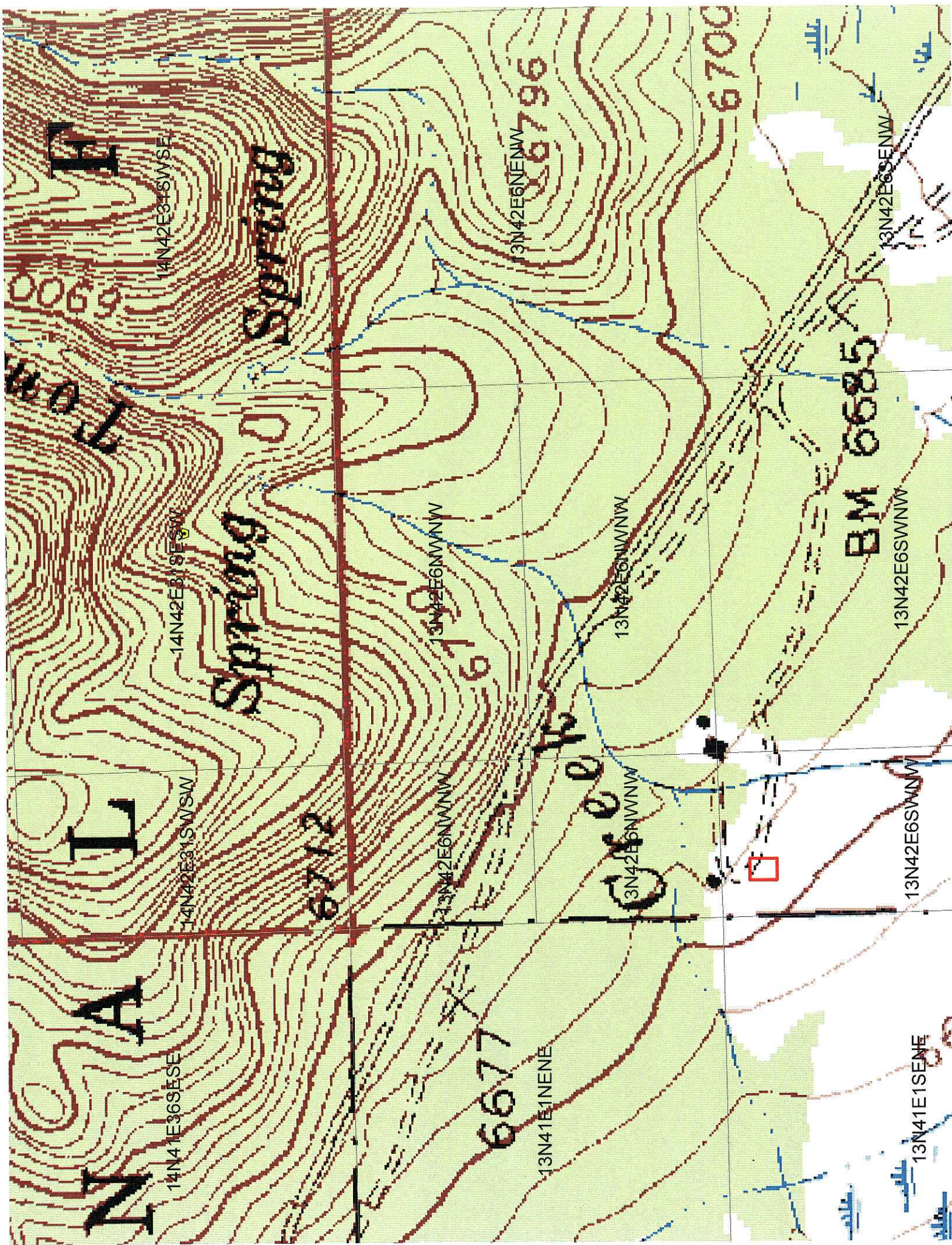
13N42E6SENW

13N42E6SWNW

13N42E6SWNW

13N41E1SENE





NAIL

14N41E36SE
14N42E31SWSW
14N42E31SESW
14N42E31SWSE

Spring
Spring

6712

13N42E6NWNW
13N42E6NWNW

6677

13N41E1NENE

13N42E6NENW
6796

13N42E6NWNW
13N42E6NWNW

6700

BM 6685

13N42E6SWNW
13N42E6SWNW

13N42E6SWNW

13N41E1SENE

