

NOV 29 2001

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

Department of Water Resources

A. GENERAL INFORMATION

Permit No. 45-7964

1. Owner: Twin Falls School District 411 Phone No. 733-6900

Current Address: 201 Main Ave W, Twin Falls, ID 83301

2. Accompanied by: Emery Warren EXAM DATE: 10-16-01

Address: Same Phone No. 733-4277

Relationship to Permit Holder: Maintenance Supv.

3. Source: Ground Water tributary to

B. OVERLAP REVIEW

1. Other water rights with the same place of use:

2. Other water rights with the same point of diversion: 47-7769

C. DIVERSION AND DELIVERY SYSTEM

1. Point(s) of Diversion:

[illegible]

2. Place(s) of Use:

Indicate Method of Determination USFS map

[illegible]

[illegible]

Copy of USGS Quadrangle Attached Showing location(s) of point(s) of diversion and place(s) of use (required).

Y Aerial Photo Attached
(required for irrigation of 10 + acres)

✓ Photo of Diversion and System Attached

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
	Lehnd + Farnley	7 1/2	FT485109003	Amvov4	3X5-06869

D. FLOW MEASUREMENTS

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
At Industrial Meter			900T	020521		

2. Measurements: Read 55.9 gpm during exam, down to 55.0 gpm. Sensor is located near the booster pump, not at the well head.

E. NARRATIVE/REMARKS/COMMENTS

Well, motor, pump, pipelines to Sawtooth Elementary School & public swimming pool for City of Twin Falls (see Permit 47-7969). This is a geothermal well, but does not have enough artesian pressure to operate the system. The well supplied some water for heating at the Twin Falls High School, but a broken pipe was too expensive to repair - this use has been discontinued. The main pipeline goes to Sawtooth & then on to the pool, so the pool can receive water even when Sawtooth doesn't. Any water used to heat Sawtooth goes back into the pipeline to the pool. Excess water is discharged into the city sewer system at the pool. This water serves both heating & air conditioning units at the school, so is used all year. An engineer's drawing of this system is not available, but school employees did locate the system manually.
Not to exceed 0.16 cfs & 112.0 AFA when combined with 47-7969.

Have conditions of permit approval been met? ☒ yes ☐ no

Measured Method:

Additional Computation Sheets Attached

The highest flow recorded by IDWR during the last 5 years has been 91.6 gpm (0.16 cfs). Allow half this amount for school.

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 =$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} =$$

2. Volume Calculations for Other Uses:

Highest measured volume during last 5 years was 112 AFA. Allow half this amount for school

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use

Meeting

Per
From

Period of Use

Use To

Q (cts)

0,08
(cts) 0

Rate of Diversion

Manual V (a1a)

V (ata) 56.0

Annual Volume

2. Recommended Amendments

Change P.D. as reflected above

Change P.U. as reflected above

Add P.D. as reflected above

Add P.U. as reflected above

None

Other _____

Totals:

80'0

56.0

I. AUTHENTICATION

Field Examiner's Name _____

Date _____

SEAL

SD-0953
INQUIRY

Idaho Department of Water Resources
Global Positioning Location Data Screen

Date: 12/18/96
Time: 16:34:54

GPS Site Id: A0003157

Global Positioning Data:

Decimal Degrees Latitude: 42.5724509
Latitude: 42:34:20.82 N Std. Dev. 2.4468903

Decimal Degrees Longitude: 114.4526389
Longitude: 114:27: 9.50 W Std. Dev. 2.1084080

Altitude: 1121.8531425 M 3679 Ft Std. Dev. 1.4604152

Datum: WGS-84 Origination Flag:

Altitude Mode Abbr.: HAE

Reading Date: 2/ 7/1995 Reading Time: 20:46:52

(Enter=Continue)

(GOLD8=Cancel)

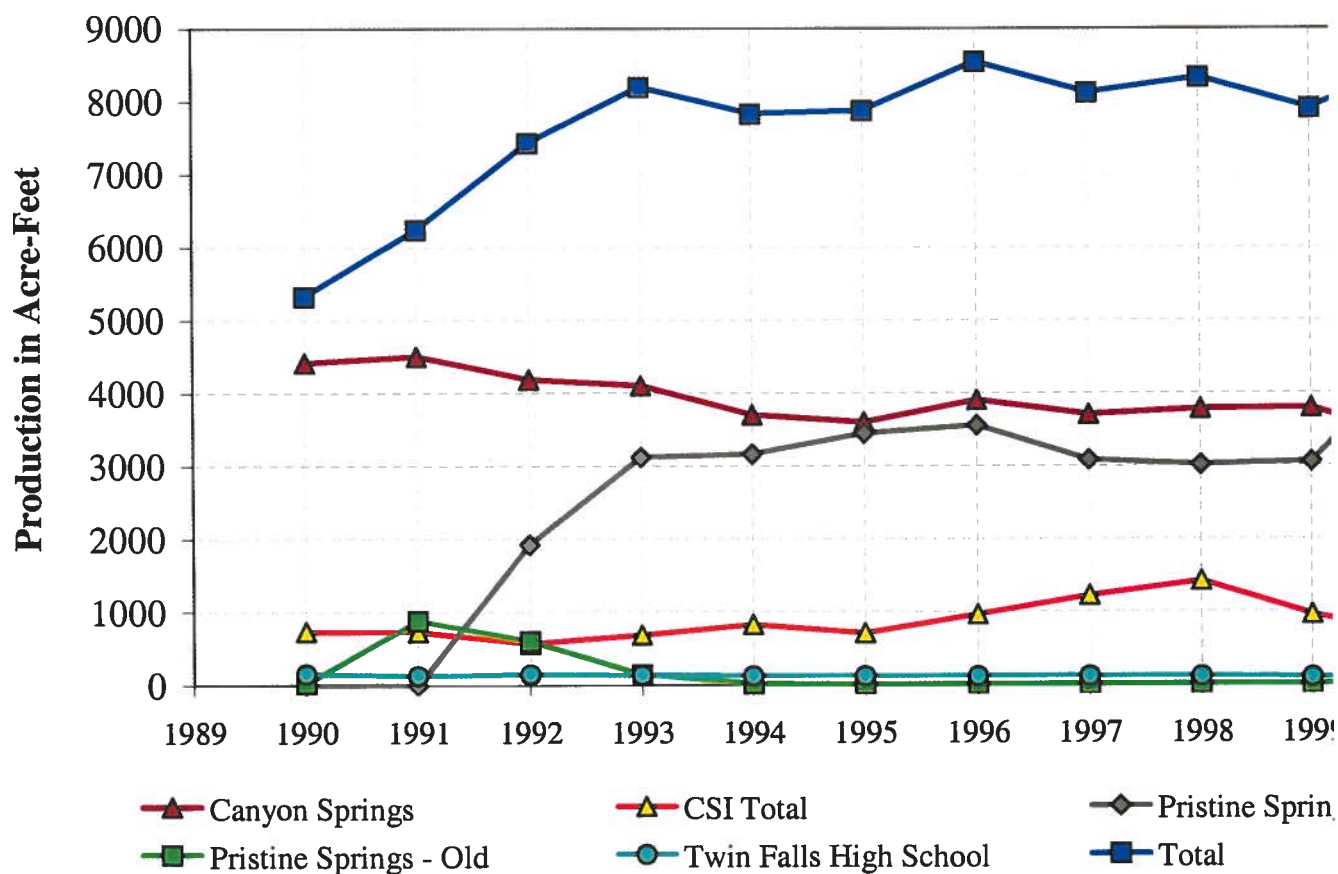
Date	Discharge (gpm)
1/4/1995	80.9
2/7/1995	78.5
4/4/1995	75.6
6/13/1995	75.4
7/19/1995	72.3
8/15/1995	72
9/20/1995	70.7
10/24/1995	73
11/28/1995	73.2
12/21/1995	72.1
1/24/1996	71.4
2/14/1996	70.6
4/8/1996	69.8
5/21/1996	70.5
6/17/1996	70.8
7/16/1996	71.3
8/26/1996	70.3
9/19/1996	70.7
10/23/1996	70.3
11/18/1996	70
12/31/1996	71.6
1/24/1997	70.8
2/27/1997	71
3/24/1997	70
4/24/1997	69.4
5/22/1997	69.2
6/28/1997	68.5
7/10/1997	69.7
8/12/1997	70.1
10/16/1997	69.6
11/26/1997	69.5
12/19/1997	68.4
1/21/1998	69.2
2/20/1998	68.4
5/29/1998	69
6/30/1998	67
7/29/1998	66.3
8/31/1998	65.4
9/29/1998	65.5
10/27/1998	65.5
11/30/1998	67.2

12/28/1998	66.4
1/26/1999	59.4
3/22/1999	59.5
5/3/1999	59.9
6/7/1999	59.5
7/6/1999	59.3
7/30/1999	59.9
Nov-99	58.9
12/2/1999	64.2
1/3/2000	65.4
2/2/2000	65.15
3/1/2000	63.1
3/27/2000	63.3
5/1/2000	63.9
5/31/2000	63.4

Site ID# (Well Name)	1990	1991	1992	1993	1994	1995
Pristine Springs - Old	17	873	597	139	14	0
Pristine Springs - New	0	0	1927	3124	3165	3446
Canyon Springs	4420	4508	4188	4106	3702	3599
CSI #1	278	269	147	376	365	387
CSI #2	456	457	423	312	462	323
Twin Falls High School	154	130	149	137	121	117
CSI Total	734	726	570	688	827	710

Use	1990	1991	1992	1993	1994	1995
Space Heating	888	856	719	825	948	827
Power Generation and Fish Farming	4437	5381	6712	7369	6881	7045
Total	5325	6237	7431	8194	7829	7872

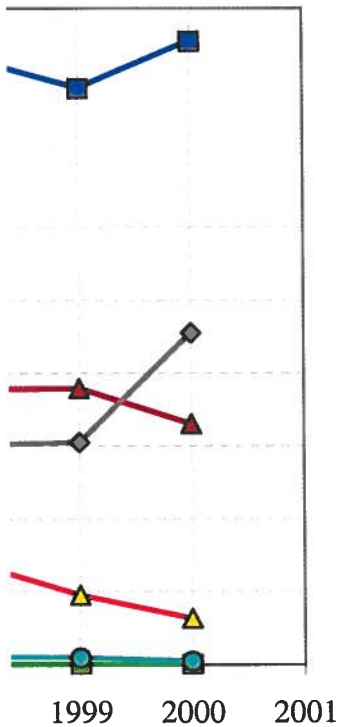
Cumulative Production for the Major Users in Twin Falls Area, 1990-



1996	1997	1998	1999	2000
0	0	0	0	0
3558	3082	3016	3053	4556
3903	3705	3781	3792	3307
616	516	403	88	15
347	703	1019	872	625
115	112	109	97	47
963	1219	1422	960	640

1996	1997	1998	1999	2000
1078	1331	1531	1057	687
7461	6787	6797	6845	7863
8539	8118	8328	7902	8550

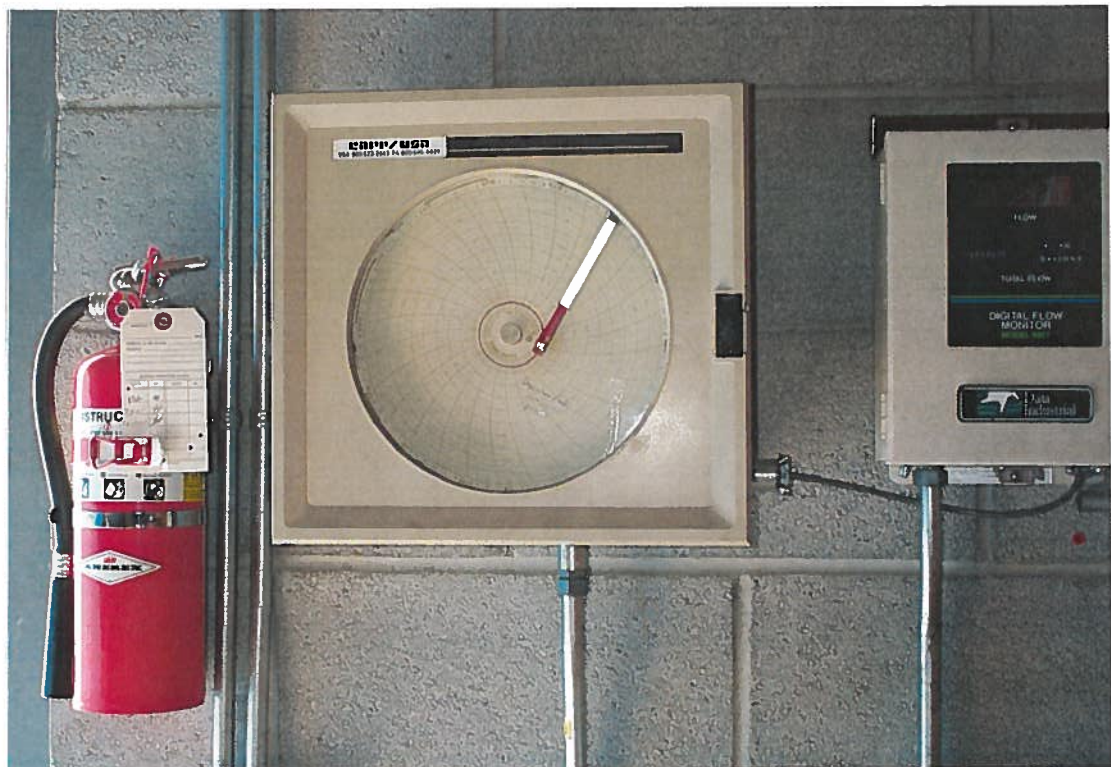
1990-2000.



Spring - New

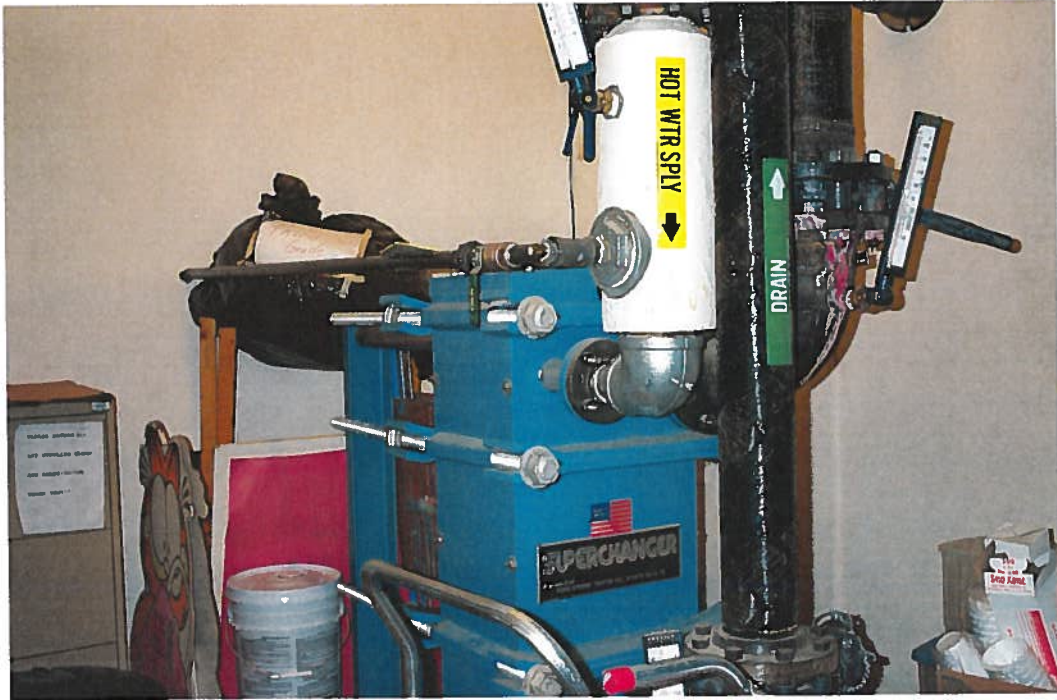


Geothermal Well At High School

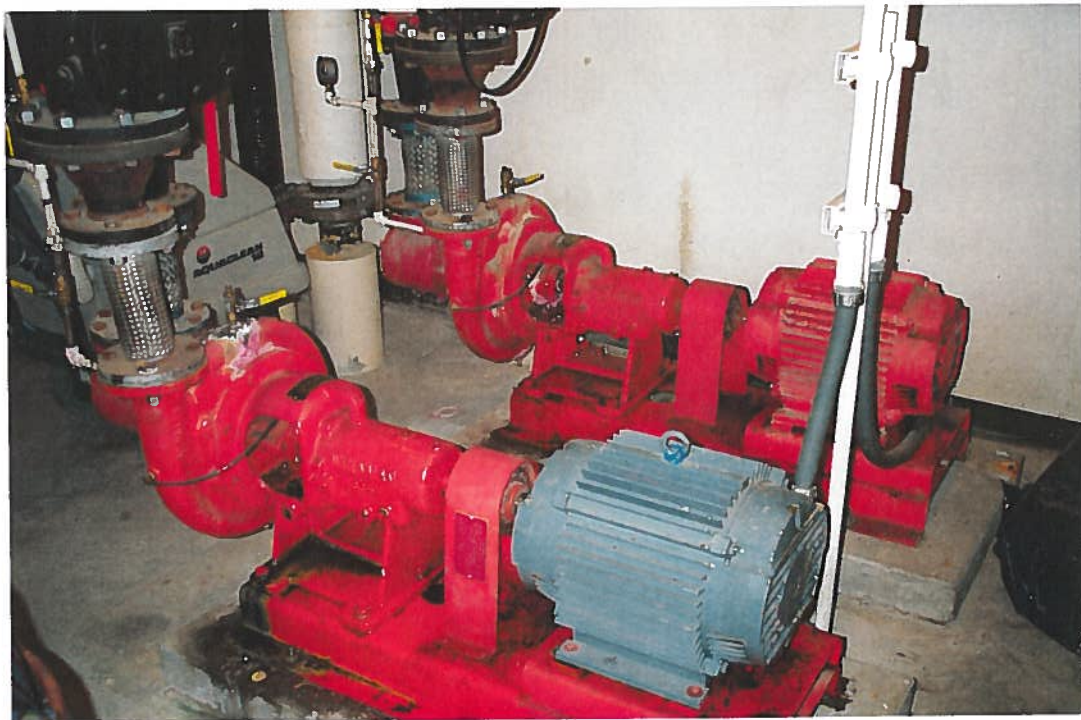


Off-Line Flow Meters

47-7964
By J E Stanton
10-16-01

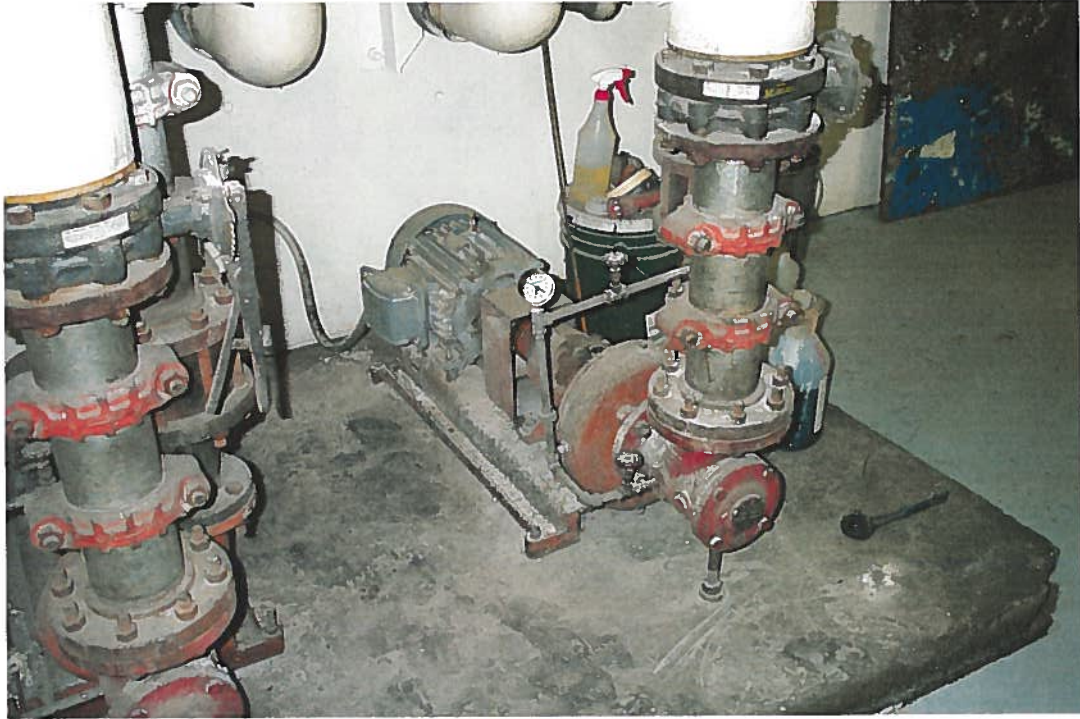


Portion of Heating System At Sawtooth School Using Geothermal Water

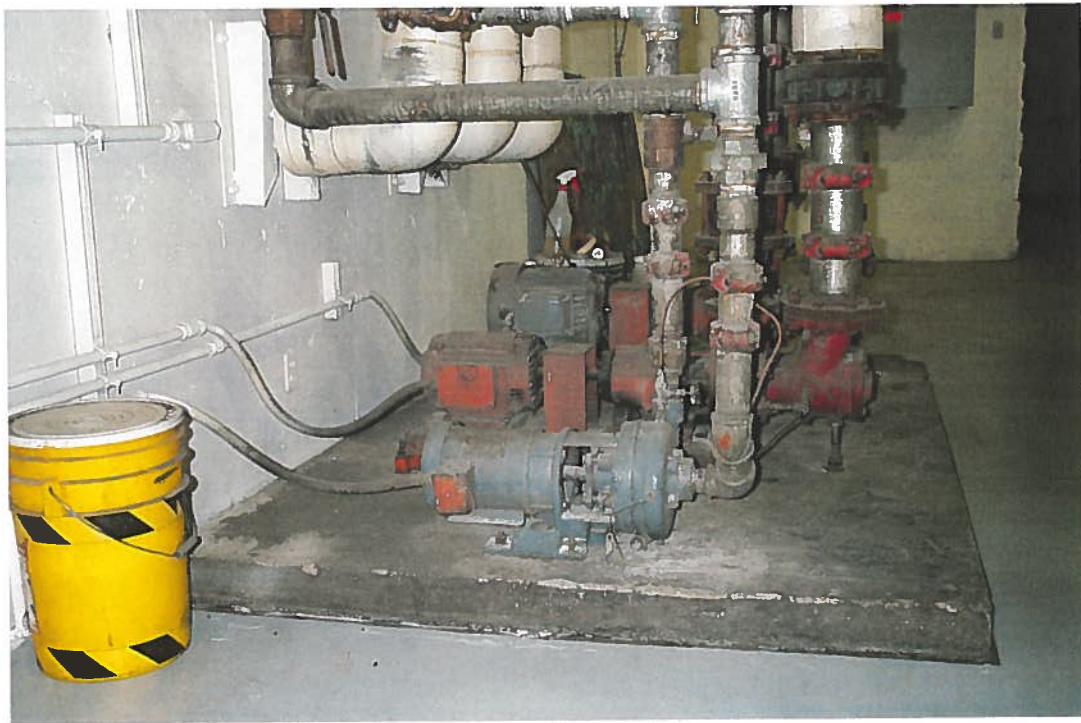


More of Same System

47-7964
By J E Stanton
10-16-01



Main Pressure Pump for Artesian Geothermal Well



Main & Backup Pressure Pumps
(Backup Pump in Front)

47-7964By J E
Stanton
10-16-01



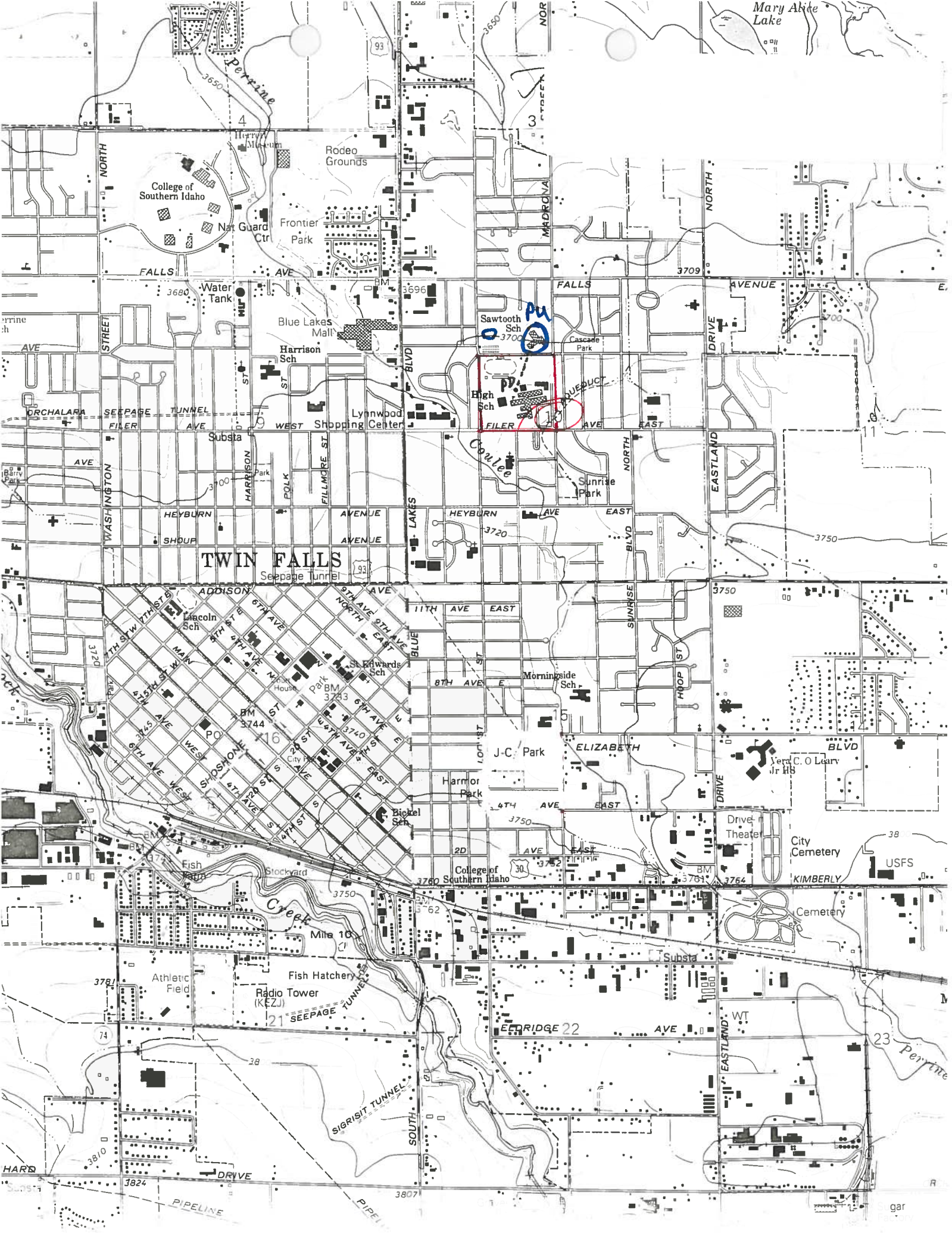
Pressure Pumps & Pielines Carrying Geothermal
Water to Sawtooth School & Twin Falls City Pool

47-7964, 7969
By J E Stanton
10-16-01



Sawtooth Elementary School

47-7964
By J E Stanton
10-16-01



Mary Alice Lake

TWIN FALLS

Sawtooth Sch
High Sch

Verd C. O. Leary Jr HS

City Cemetery

Cemetery

USFS

KIMBERLY

WT

gar

