

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No. 11-7359

1. Owner: EAST SHORE SUBDIVISION HOME OWNERS Phone No. 298-6125

Current Address: 1955 Spring Creek Drive, Bountiful Utah 84010

2. Accompanied by: JACK P. BALLING EXAM. DATE: 7-22-88

Address: SAME AS ABOVE Phone No. 295-6476

Relationship to Permit Holder: PRESIDENT OF HOME OWNERS ASS.

3. Source: GROUNDWATER tributary to _____

B. OVERLAP REVIEW

1. Other water rights with same place of use: NO

☐ Copies Attached

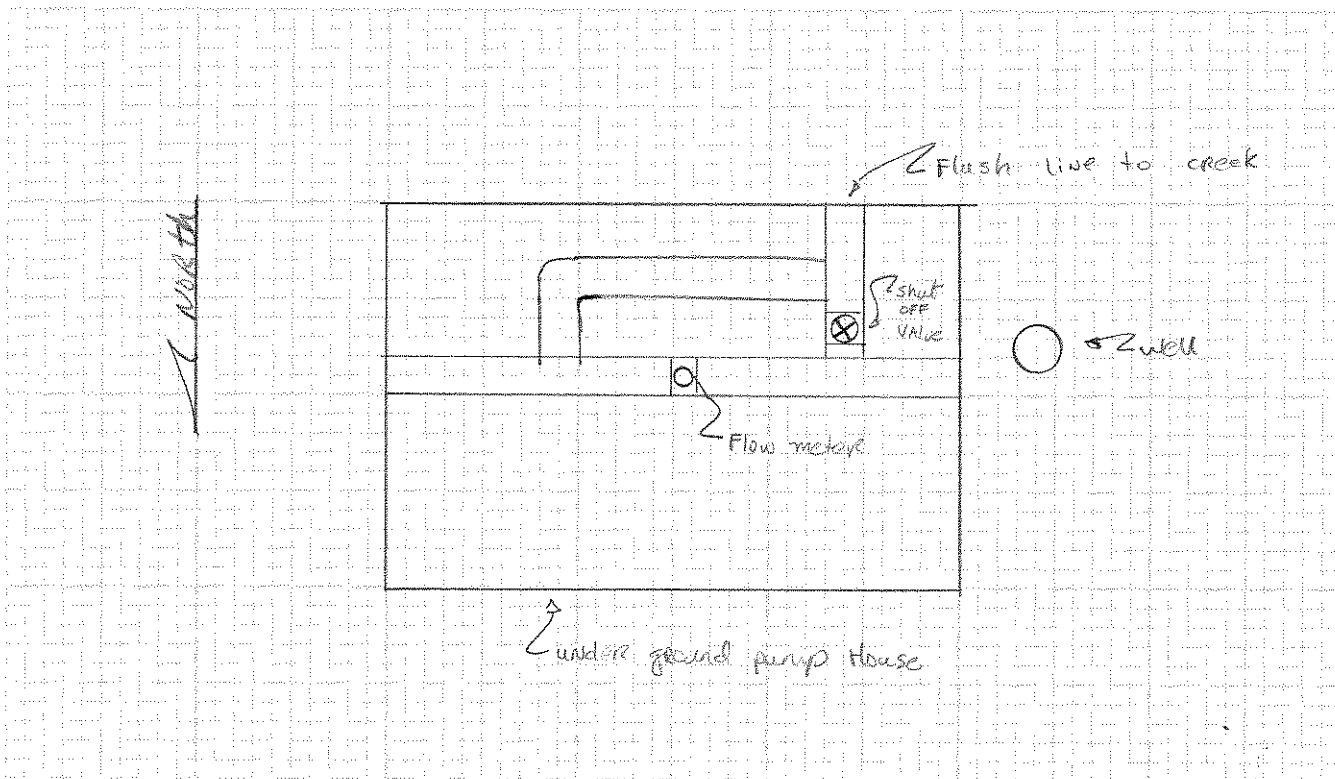
2. Other water rights with same point of diversion: NO

☐ Copies Attached

☐ Copies of Field Exam's Attached

C. SYSTEM DESCRIPTION

1. **Diversion System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe i.d. as applicable. ☒ Alternative diagram attached



Scale: 1" =

2. ☒ Copy of U.S.G.S. Quadrangle Attached
Showing location(s) of point(s) of diversion and
place(s) of use (required).

☒ Photo of Diversion and System Attached

(required for all but single household domestic groundwater, and stockwater.

☒ Aerial Photo Attached SEE PLAT MAPS.
(required for irrigation of 10 acres or more).

3. **Narrative:** Description (As operating at time of measurement. Indicate pressure, number of sprinklers, etc.)

Well, submersible pump/motor to subdivision which is currently supplying water to 12 summer homes and irrigation ground tennis court and grass area along Bear Lake shore. Well depth = 200'. Motor sets at 186' (static H₂O = 5960 - 5923 = 37'). The Rd. is located on Bear Lake Shores Subdivision II, East Shore Subdivision has easement to Rd. location. Under ground sprinkler system is used to irrigate the areas described above.

☒ See Remarks on page 4 for continuation

Well or Division Identification No.*	Submersible				
Motor Make	H, Fach				
Hp	20				
Motor Serial No.					
Pump Make	GEMMIS				
Pump Serial No. or Discharge Size	SP45-8-20				

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

5. Point(s) of Diversion:

[illegible]

Indicate Method of Determination.

6. Place(s) of Use:

[illegible]

Do not use this space

Do not use this space

D. FLOW MEASUREMENTS

☐ Additional Data Sheets Attached

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
Flow meter		Badger		86660249	100 gpm	

2. Measurements:

Flow meter = 29 gpm

PRESSURE ON main line = 41 psi

E. FLOW CALCULATIONS

☐ Additional Computation Sheets Attached

1. Measured Method: Allow 0.07 c.f.s. / Home.

$$Q = 12 \text{ Homes} (0.07 \text{ c.f.s. / Home}) = 0.84 \text{ c.f.s.}$$

2. Alternate Method for Checking Purposes: THEORETICAL SEE ATTACHED PAGE $Q_{MAX} = 0.65 \text{ c.f.s.}$

$$Q_T = \frac{(20)(8.814)(0.85)}{126' + 2.31(40 \text{ psi})} = 0.69 \text{ c.f.s.}$$

$$Q_{DOM LIMITED} = 0.46 \text{ c.f.s.}$$

$$Q_{DPR LIMITED} 0.03 \text{ c.f.s.} = 0.05 \text{ c.f.s.}$$

F. PUMP EFFICIENCY DATA (Optional)

Discharge Pressure: _____ psi x 2.31 = _____ ft (1); Dynamic pumping level: _____ ft (2)

Total Head: (1) + (2) = _____ (3) ; Flow rate: _____ cfs (4)

Water HP: (3) x (4) ÷ 8.8 = _____ (5)

Meter Input KW: 3.6 x _____ KH x _____ CTR or _____ MULT x _____ PTR x _____ N/ _____ T = _____ (6)

Meter Input HP: (6) x 1.34 = _____ (7)

Panel Input KW: _____ Ave PF x _____ Ave Volts x _____ Ave Amps x .001732 = _____ (6)

Panel Input HP: (6) x 1.34 = _____ (7) Efficiency: (5)/(7) x 100 = _____ %

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = (1.70)(3.5) = 5.95 = 6.0 \text{ AFA}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = (0.05)(199)(1.9835) = 19.7 \text{ c.f.s.}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 6.0$$

2. Volume Calculations for Other Uses: Allow 1.2 AFA FOR EACH HOME.

$$V_T = 79 \text{ Homes} \left(\frac{1.2 \text{ AFA}}{\text{Home}} \right) = 94.8 \text{ AFA}$$

H. REMARKS AND OVERLAP REVIEW ANALYSIS

There are 4 homes which are on the system but are located in Bear Lake Sands II subdivision south of Eastshore subdivision. Original design of the system was to exclude the Bear Lake Sands II subdivision but, system was never developed this way. There are 4 homes still on system.

20 Domehc Lots Bear Lake Sands #2
59 Domehc Lots East Shore Subdivision #1

Total 79 Domehc Lots
Domehc Limited By Permit = 0.46 ft

I. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use		Period of Use		Rate of Division Q (cfs)	Annual Volume V (afa)
From	To	From	To		
1/1	12/31	4/15	10/31	0.46	94.80
Domestic (79 units)		Irrigation		0.05	6.0
Totals:		0.51 cfs		100.80 ft	

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

J. AUTHENTICATION

Field Examiner's Name: Richard L. Jones
 Signature: [Signature]
 Certification Date: 8-5-98
 Field Report Preparation Date: _____
 CONSULTANT SEAL: KEITH C. CURRY
1/14/2004

K. Licensing recommendation shall be prepared by an Idaho Department of Water Resources employee on a computer printout attached hereto.

E. NARRATIVE/REMARKS/COMMENTS

Static H₂O Level = 5923'

GROUND ELEVATION = 5960' (USGS Quad)

Draw Down ELEVATION = 5863'

Head = 5960' - 5863' = 97ft

PSI = 40 - 75 psi use 40 PSI

eff = 70% assumed

$$Q = \frac{hp (8.814) \cdot \text{eff}}{\text{head} + (\text{PSI} \times 2.308)} = \frac{20(8.814)(0.70)}{97 + (40 \times 2.308)} = \frac{123.396}{189.32} = 0.65 \text{ cfs}$$

$$\text{IRRIGATION} = 0.03 \text{ cfs/acre} \times 1.7 \text{ ac} = 0.05 \text{ cfs}$$

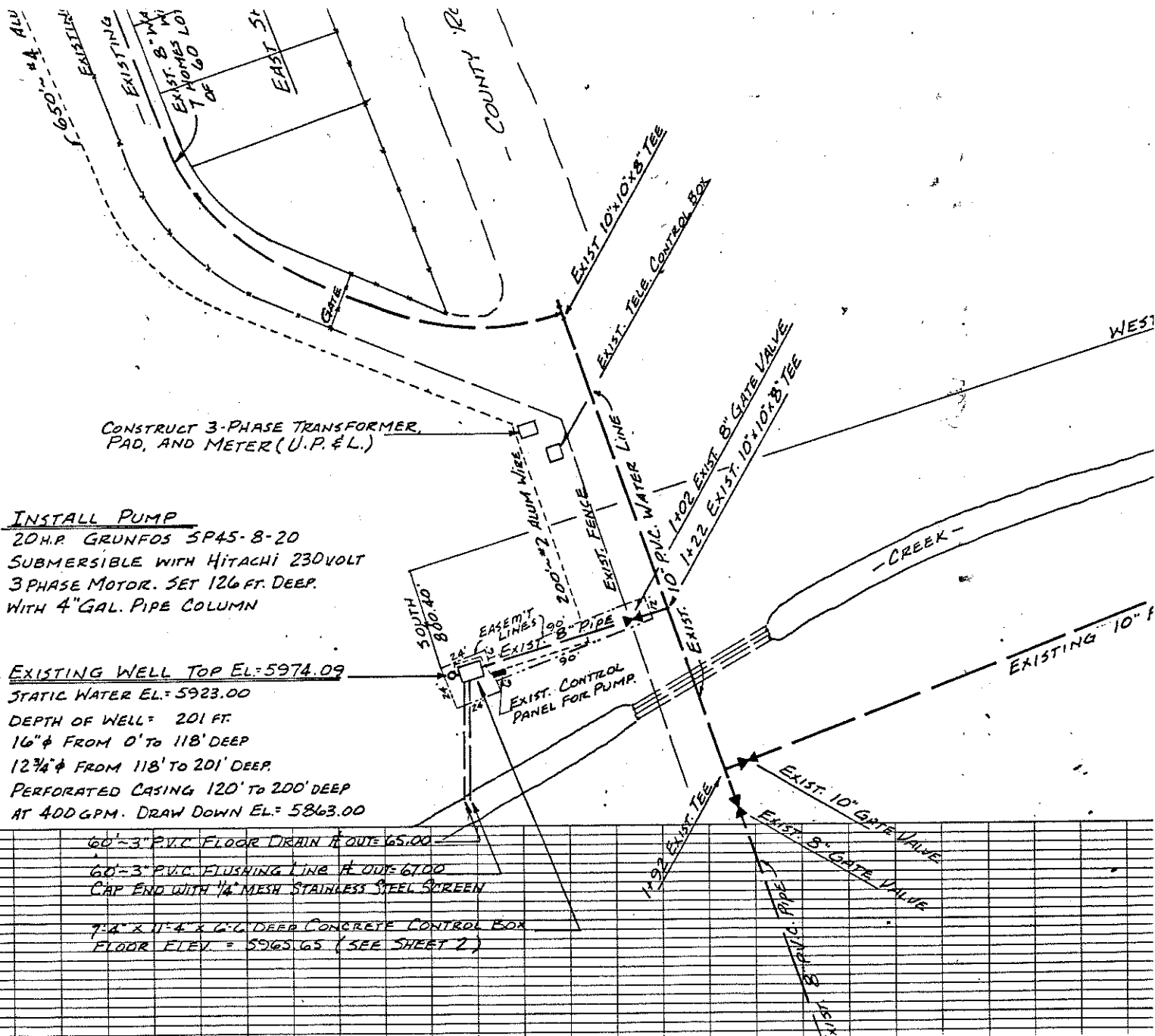
$$V_{\text{ac Dom}} = 79 \times 1.2 = 94.8 \text{ cfs}$$

$$V_{\text{irr}} = (1.70) 3.5 = 6.0 \text{ cfs}$$

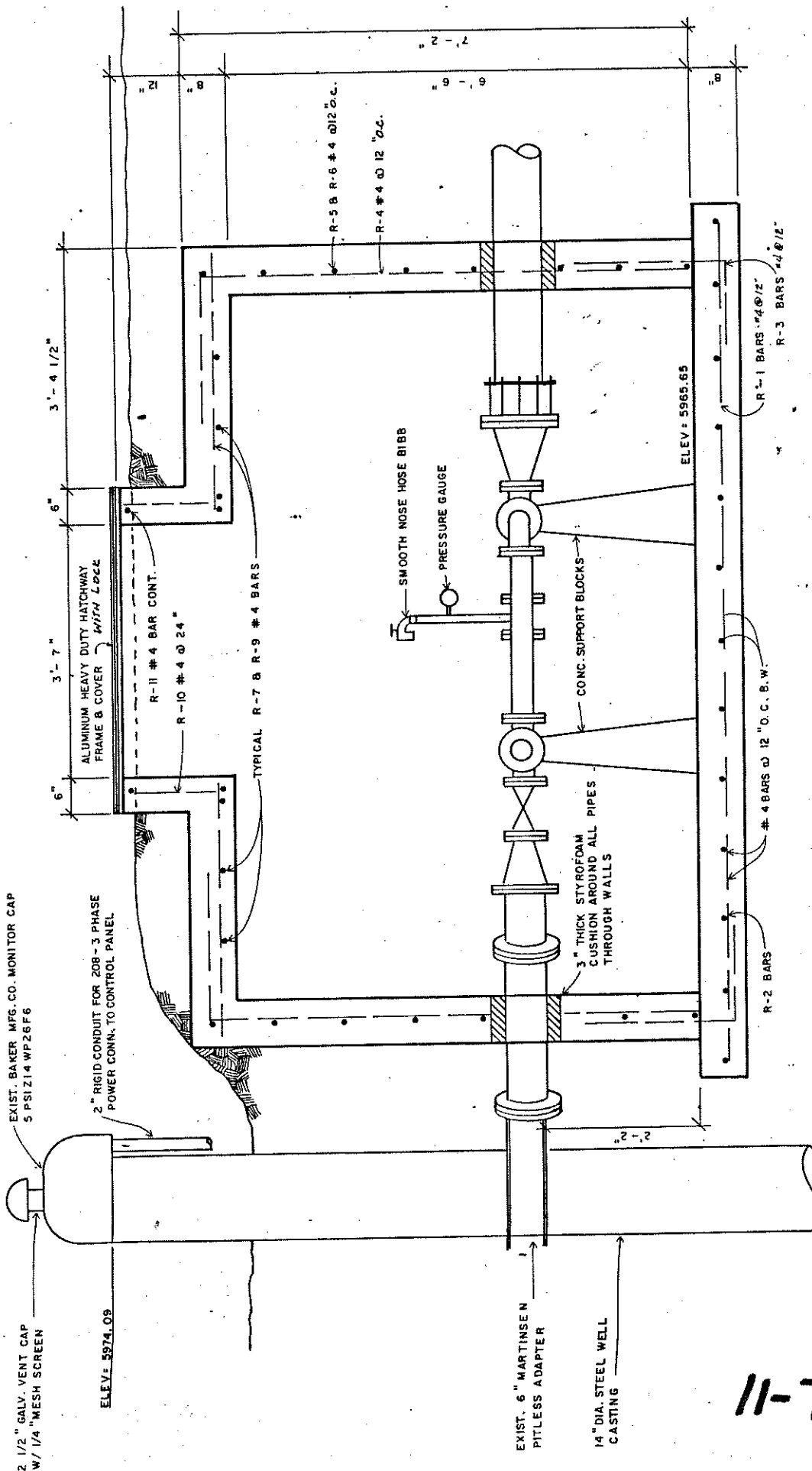
KETH C WILSON
1/14/2004

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

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SECTION ELEVATION

11-7359





Totalizing Meter

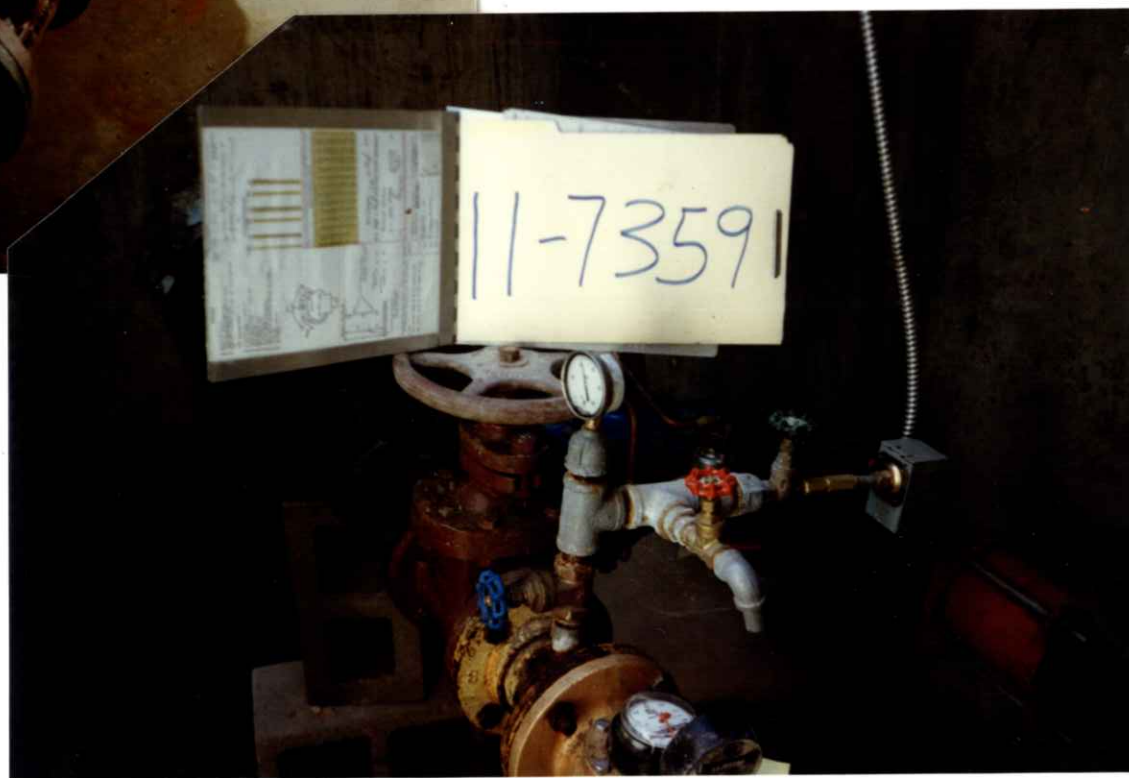


Pump house

11-7359



VIEW INSIDE PUMP HOUSE



11-7359

11-7359

T-16S

R-44E

BEAR LAKE

T
16
S

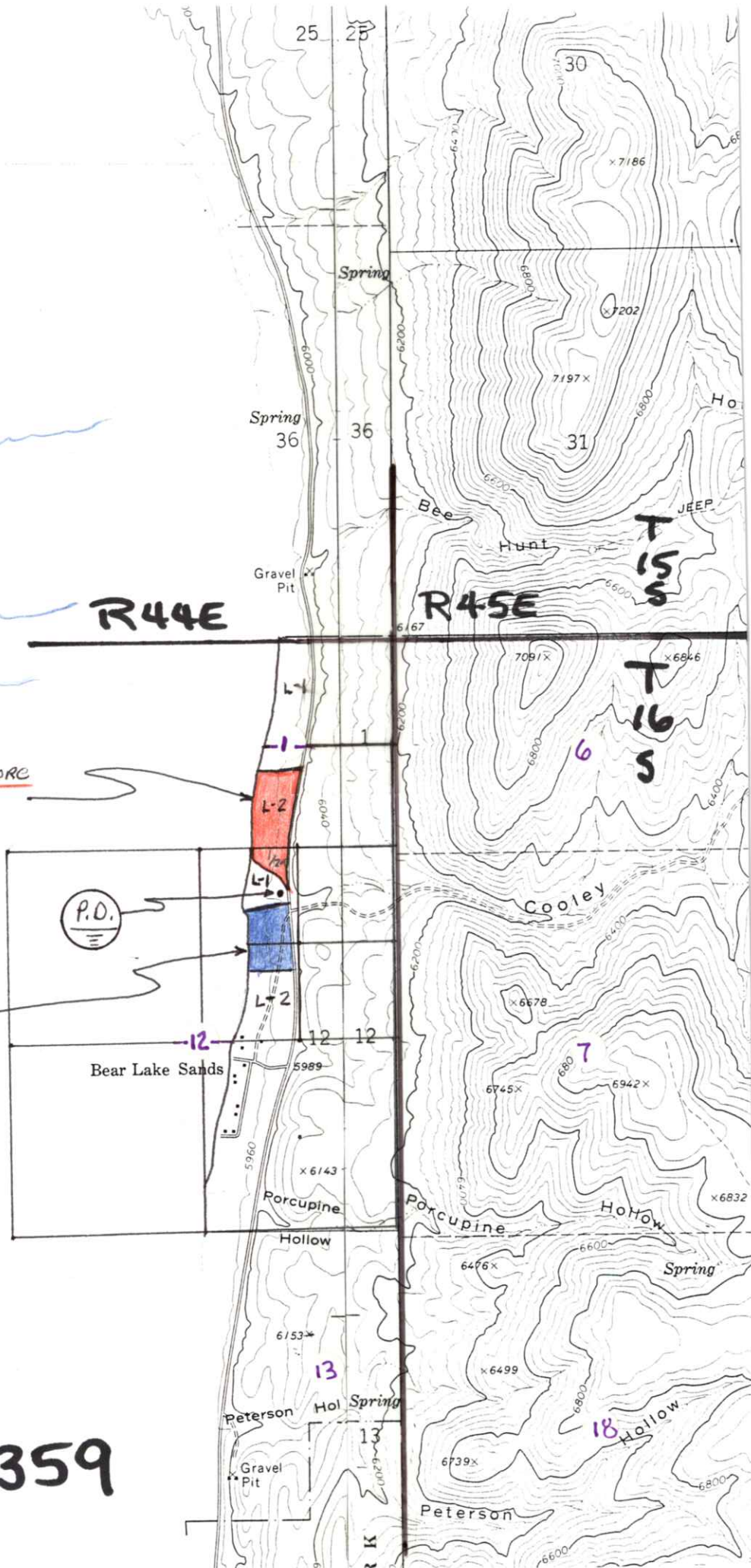
R 44E

EAST SHORE

BEAR LAKE
SANDS II

Bear Lake Sands

11-7359



BEAR LAKE SANDS
A SUBDIVISION OF A PART OF
OF SECTION 12 T.16 N. R.
BOISE BASE & MERID
BEAR LAKE COUNTY, IDAHO

COUNTY ENGINEER

I, Gary L. Stoor, County Engineer of Bear Lake County, Idaho have checked the plat of Bear Lake Sands No. 2 and the computations for making said plat and find they comply with the laws relating thereto

Gary L. Stoor
County Engineer

BEAR LAKE COUNTY COMMISSION

I, Walter L. Stoor, Chairman of the board of County Commissioners of Bear Lake County, Idaho do hereby certify that the plat of Bear Lake Sands No. 2 was accepted and approved by resolution of said board this 13th day of December 1972.

In witness I have hereunto set my hand and affixed the seal of Bear Lake County, Idaho this 13th day of December 1972.

Attest Walter L. Stoor
Chairman

ACKNOWLEDGEMENTS

State of Idaho
County of Idaho
On this 13 day of December 1972, before me a Notary Public in and for the State of Idaho, personally appeared Sidney W. Smith and acknowledged to me that he executed the certificate on this plat. In witness whereof I have set my hand and affixed my official seal this 13 day of December 1972.

Sidney W. Smith
Commission Expires 12/13/1973

State of Idaho
County of Idaho
On this 13 day of December 1972, before me a Notary Public in and for the State of Idaho, personally appeared those named in the dedication on this plat and acknowledged to me that they executed the same. In witness whereof I have hereunto set my hand and affixed my official seal this 13 day of December 1972.

Walter L. Stoor
Notary Public Expires 12/13/1973

BOUNDARY DESCRIPTION

Beginning at a point which is N. 11° 37' 34" E., 3749 ft. from the SW corner of the SE 1/4 of Section 12, T.16 S. R. 44 E. Boise Base and Meridian thence
N. 6° 37' 45" E. 184.40 feet thence
N. 0° 25' 55" E. 55.0 feet thence
N. 87° 23' 55" E. 73.71 feet thence
N. 50° 17' 09" E. 38.78 feet thence
N. 0° 17' 10" E. 103.60 feet thence
N. 20° 32' 44" W. 35.67 feet thence
N. 85° 20' 36" W. 90.61 feet thence
N. 0° 25' 55" E. 245.0 feet thence
N. 77° 51' 30" E. 191.21 feet thence
N. 89° 11' 30" E. 200.86 feet thence
S. 1° 35' 30" E. 181.20 feet thence
S. 0° 46' 20" E. 590.0 feet thence
N. 87° 53' 44" W. 127.38 feet thence
N. 0° 0' 0" 15.0 feet thence
N. 80° 0' 14" W. 302.91 feet to point of Beginning.



SCALE - 1" = 50'



ENGINEER'S CERTIFICATE
I, Sidney W. Smith, do hereby certify that I am a h
Idaho, holding Certificate No. 2404. And by the authori
survey of the land shown on this Plat and describe
said tract into lots and streets to hereafter be kn
that the same has been correctly surveyed and st
this plat.
I further certify that this is a correct copy
Sidney W. Smith

