

RECEIVED

AUG 23 2005

Department of Water Resources

Exam Date: 7/21/1999

8/17/2005

[illegible]

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No. 29-8080
Phone No. ²⁰⁸ (208) 237-2946
(208) 776-5536

1. Owner: THUNDER CANYON ESTATES OWNERS ASSN Phone No. (208) 776-5536

Current Address: 803 Victor Ave, Citrusburg Id 83202

2. Accompanied by: Ron Berger EXAM DATE: 7/21/99

Address: P.O. Box 305, Lava Hot Springs, Id 83247 Phone No. (208) 776-5531

Relationship to Permit Holder: Owner

3. Source: Groundwater tributary to _____

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 29-170, 29-171, 29-12064

2. Other water rights with the same point of diversion: NONE

C. DIVERSION AND DELIVERY SYSTEM

1. Point(s) of Diversion:

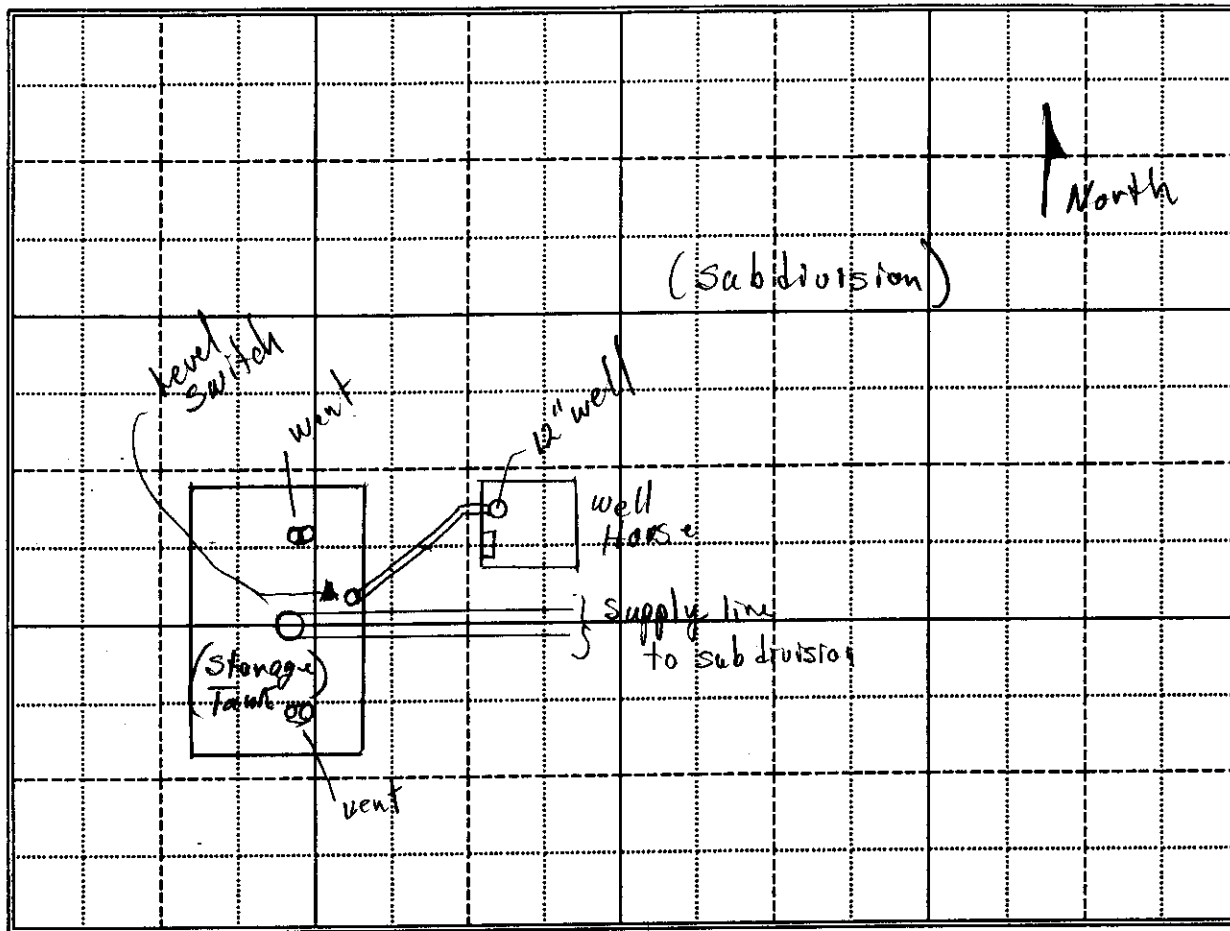
[illegible]

2. Place(s) of Use:

Indicate Method of Determination

[illegible]

3. **Delivery System Diagram:** Inventory all major components and distances between components. Indicate weir size/ditch size/pipe I.d. as applicable.



Scale: 1" = _____

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

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

____ Photo of Diversion and System Attached

4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
2343277009	Goulds	5		Goulds	

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

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date

2. Measurements: Meter has been added
~~Flow meter will be added at a later date ordered~~

E. NARRATIVE/REMARKS/COMMENTS

The well pumps to a large storage tank that floods on the supply line to the subdivision. The size of the pump & motor was not available. This system will supply more than 100 psi at the bottom of the subdivision so pressure regulators will have to be added at points on the system. The individual could not show me the exact position of the water lines on the subdivision but a general location is indicated on Thunder Canyon Estates plat. The golf course has its own water supply - Tank (Supply) was estimated to be $\approx 133,097$ gallons See attached figure

It appears that Water Right 29-170, 29-171 & 29-12064 from Dempsey Creek irrigate the golf course

Lots Currently Occupied (12) Total Lots 87

Lots Currently Occupied:

Div 1: Block 2, Lot 7; Block 3, Lots 2 & 3; Block 4, Lot 1

Div 2: Block 4, Lots 2 & 8; Block 5, Lot 2; Block 6, Lots 8 R/W, 10 R/W, 11 R/W, Lot 23 R/W, and the Club house located in SENECA Sec 32 T 09 S R 3 E

Note: Clubhouse was described as Block 7, Lot 1, but Instrument 97013395

vacated Block 7, so the location is no longer described by lot & Block number

Lot 1 Block 6 Thunder Canyon Estates Div #2 was vacated by instrument 714553 so is not considered part of the subdivision. This lot has a single domestic well and is not serviced by this system

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

F. FLOW CALCULATIONS

Measured Method:

☒ Additional Computation Sheets Attached $Q_2 = 0.21 \text{ cfs}$ **G. VOLUME CALCULATIONS**

1. Volume Calculations for Irrigation:

 $V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = \underline{\hspace{2cm}}$ $V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = \underline{\hspace{2cm}}$ $V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = \underline{\hspace{2cm}}$

2. Volume Calculations for Other Uses:

 $V_{DOM} = 90 \times 1.2 \text{ cfs} = 108 \text{ cfs}$ **H. RECOMMENDATIONS**

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
Totals:			_____	_____

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

KEITH C Wilson 8/18/2005
 Lee L. Simmons Date 7/20/99

Reviewer _____

Date _____

SEAL

THEORETICAL PUMP FLOW CALCULATIONS

$$Q_{cfs} = [(Hp) (8.814) (Eff.)] \div [Lift + (psi \times 2.308)]$$

Hp = Horsepower = 5

Eff. = Efficiency = 70 % (Usually 70.0%)

Lift = Static Water Level + Draw down

Static Water Level = _____ ft.

Assumed Draw down = _____ ft.

Lift = 140 ft.

OR

Measured Dynamic Water Level = _____ ft.

Psi = Operating Pressure = 10 ft psi = 4.33

$$Q_{cfs} = [\frac{5}{HP} \times 8.814 \times \frac{0.70}{EFF}] \div [\frac{140}{LIFT} + (\frac{4.333}{PSI} \times 2.308)]$$

$$= [\frac{30.8}{ }] \div [\frac{150}{ }]$$

$$Q_{cfs} = \underline{0.21} \text{ cfs}$$

29-8080

Permit Number

MEMORANDUM

Date: August 18, 2005
To: Water Right File 29-8080
From: kwilson
Re: Field Report Narrative

Place of use is Thunder Canyon Estates, Division 1 & Division 2. There are a total of 87 lots that are stubbed in with the following 12 Lots with actual hook-ups:

Division 1: Block 2, Lot 7; Block 3, Lots 2 & 3; Block 4, Lot 1

Division 2: Block 4, Lots 2 & 8; Block 5, Lot 2; Block 6, Lots 8-RGW, 10-RGW, 11-RGW, Lot 23-RW, and the Club House located in the SENENE Sec 32, T09S, R38E. The Club House was listed in Block 7, Lot 1, but Instrument 97013395 vacated Block 7 so the location is no longer described by Block and Lot number. The Club House comes under the definition of domestic in Section 42-111, Paragraph B, Idaho Code.

Note: Lot 1, Block 6, Thunder Canyon Estates, Division 2, was vacated by Instrument 714553 so is not considered part of the subdivision. This lot has a single family domestic well and is not serviced by this system.

The system consists of a 5 hp Goulds Pump, mainline to Storage tank with water lines connecting to the subdivision lots. Lift of the pump is 140 operating against 10 ft of head. Theoretical flow = 0.21 cfs

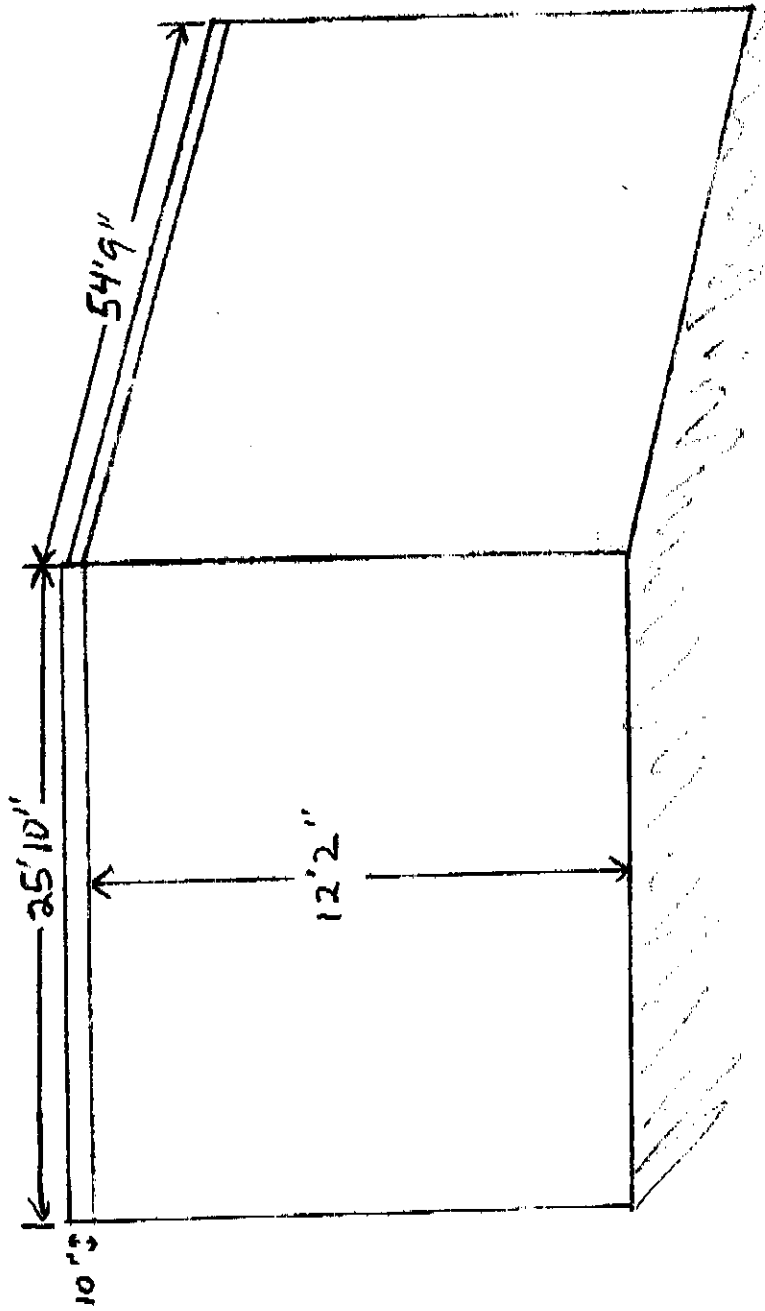
Domestic includes irrigation of up to 1/2 acre in conjunction with a single domestic home.

The Golf Course is located in Blocks 9, 10 & 11, and appears to be irrigated from Dempsey Creek under rights 29-170, 29-171, and 29-12034.

The initial field exam was completed on 07/21/1999. At that time the required flow measurement device had not been installed. The current president of the association, John (Chip) Buss was unaware that the permit required a measurement device. On 06/01/2005, Mr. Buss supplied evidence that the measurement device (Sensus Meter S/N 60215792) had been installed and provided a plat of the subdivision with the current hook-ups indicated.

Review of the plat supplied by Mr. Buss revealed a difference from the Arc View County Taxlots. To insure accuracy correct plats of Thunder Canyon Estates were obtained from Bannock County on August 16, 2005.

The Department of Environmental Quality is requiring that a second well be added to the system as a back up to the current well. The Association plans to file a transfer as soon as is a licensed right to add a second well in Lot 2, Block 5, Thunder Canyon Estates Division 1 (NWSENE Sec 32, T09S, R38E)



See Figured 133097 Bullons

13' Deep To Top
25'10" Wid
54'9" Long
minus wall
Thickness
except Floor

Joseph & Richard Andreasen
PO BOX 75
Shoshone ID 83352

Kenneth & Patricia Neve
9515 Grandview Way
Sandy UT 84092

Samuel & Janet Davis
1308 W. 400 N.
W. Bountiful UT 84087

Brian Berger
PO Box 305
Lava Hot Springs, ID 83246

Kurtis & Patty VanKampen
4118 Little Crown Lane
Colorado Springs, CO 80906

Christel K. Flinders
PO Box 95
Bountiful, UT 84010

Steve & Diane Van Campen
8180 S. 288 E.
Sandy UT 84070

Jack Pearce
3235 W. 4100 S.
West Valley City UT 84119

Preston Pearce
3235 W. 4100 S.
West Valley City, UT 84119

Staci Rushton & LaJean Belnap
PO BOX 4216
Haley ID 83333

Reed White
131 NW 4th St. #290
Corvallis OR 97333

Marla Jeanne Grey
359 Lakewood Ln.
Geyserville CA 95441

Jedd R. & Nancy VanKampen
PO BOX 780
Lava Hot Springs, ID 83246

Ralph W. Rossiter
518 W. Fife St.
Lava Hot Springs ID 83246

Julie Patterson, Cori & Jon Thomson
PO BOX 181
Lava Hot Springs, ID 83246

Theron W. & Phillips Foster
PO BOX 309
Inkom ID 83245

Douglas F. & Mary Andreasen
1707 W. Biggs Gridley Rd.
Gridley CA 95948

Hazel M. Fetting (Rowe)
11261 S. Masters Dr.
Lava Hot Springs, ID 83246

Amin & Zarina Motiwala
PO BOX 27221
Salt Lake City, UT 84127

Yousuf Khanani
4462 S. 5000 W.
West Valley City, UT 84120

Asif Khanani
4462 S. 5000 W.
West Valley City, UT 84120

Louis Bitton & Greg London
PO BOX 325
Grace ID 84241

Ken Collett
10503 Hilene Cir.
South Jordan UT 84065

William Shelton
5554 White Springs Dr.
Murray UT 84123

James A. McRae
PO BOX 4216
Lava Hot Springs ID 83246

Rockhampton Investments LTD
11496 S. Rockhampton Dr.
Sandy UT 84092

Cynthia Rae Salley
9754 E. Merrick Rd.
Lava Hot Springs, ID 83246

Bryant J. & Marci Kay Barnes
1730 W. Quinn Rd. Trlr. #652
Pocatello ID 83202

John Clark Mehlhaff
615 Perkins Way
Auburn CA 95603

Donald J. Grey
PO BOX 171
Lava Hot Springs ID 83246



Idaho Secretary of State Viewing Business Entity

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[[Get a certificate of existence for THUNDER CANYON ESTATES OWNERS ASSOCIATION, INC.](#)]

THUNDER CANYON ESTATES OWNERS ASSOCIATION, INC.

359 E MAIN
LAVA HOT SPRINGS, ID 83246

Type of Business: CORPORATION, HOMEOWNERS ASSOCIATION

Status: GOODSTANDING, ANREPT SENT 01 Jun 2004

State of Origin: IDAHO

Date of 07 Aug 2000

Origination/Authorization:

Initial Registered Agent: JOHN R BERGER
359 E MAIN
LAVA HOT SPRINGS, ID 83246

Organizational ID / Filing Number: C135056

Number of Authorized Stock Shares:

Date of Last Annual Report: 23 Jun 2004

Amendments:

Amendment filed 07 Aug 2000 INCORPORATION

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Annual Reports:

Report for year 2004 ANNUAL REPORT

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Report for year 2003 ANNUAL REPORT

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Report for year 2002 ANNUAL REPORT

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Report for year 2001 ANNUAL REPORT

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Comments, questions or suggestions can be emailed to: sosinfo@idsos.state.id.us

No. C 135056	Due no later than August 31, 2004 Annual Report Form		2. Registered Agent and Office NO PO BOX
Return to: SECRETARY OF STATE 700 WEST JEFFERSON PO BOX 83720 BOISE, ID 83720-0080	THUNDER CANYON ESTATES OWNERS ASSOC 359 E MAIN PO BOX 305 LAVA HOT SPRINGS, ID 83246		JOHN R BERGER 359 E MAIN LAVA HOT SPRINGS, ID 83246
NO FILING FEE IF RECEIVED BY DUE DATE			3. New Registered Agent Signature
4. Corporations: Enter Names and Business Addresses of President, Secretary and Directors.			
Office held	Name	Street or P.O. Address	City State Zip
	President - John R. Berger	PO Box 305 Lava Hot Springs, Id.	83246
	Secretary - Randall E. Thomas	5985 S. 1475 W. SLC, UT	84123
	Director - Chip Buss	9912 E. Highway 30 Lava Hot Springs, Id	83246
	Director - Brian Berger	PO Box 545 Lava Hot Springs, Id	83246
	Director - Jack Pearce	2028 Summer Ridge Dr. #10 Taylorsville, UT	84118
5. Organized Under the Laws of:		6.	
IDAHO C 135056		Signature <u>John R. Berger</u> Name <u>John R. Berger</u>	Date <u>6-19-04</u> Title <u>President</u>
Issued 06/01/2004		Do Not Tape or Staple 2004082283	

29

R38E

28

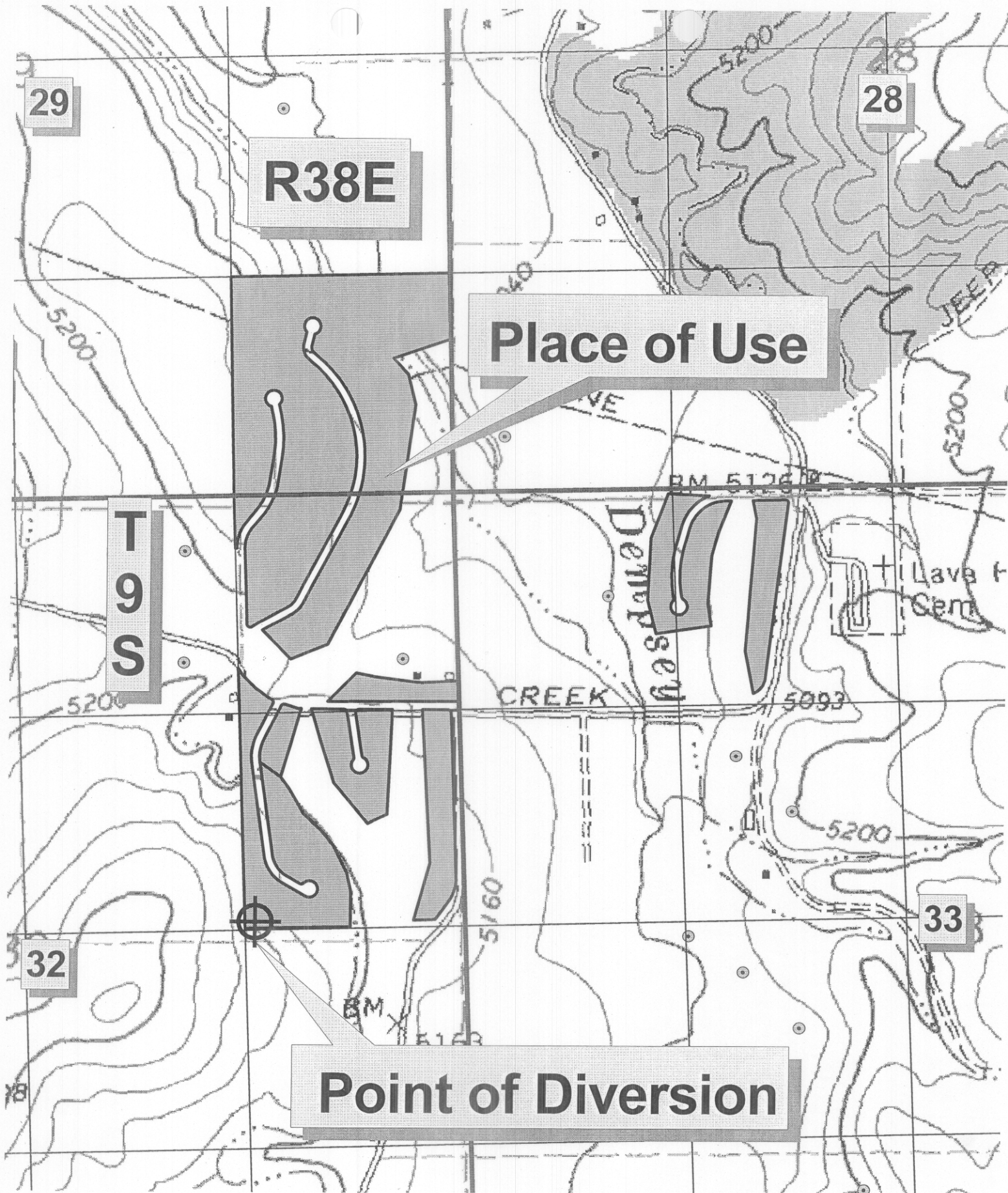
Place of Use

T
9
S

32

33

Point of Diversion



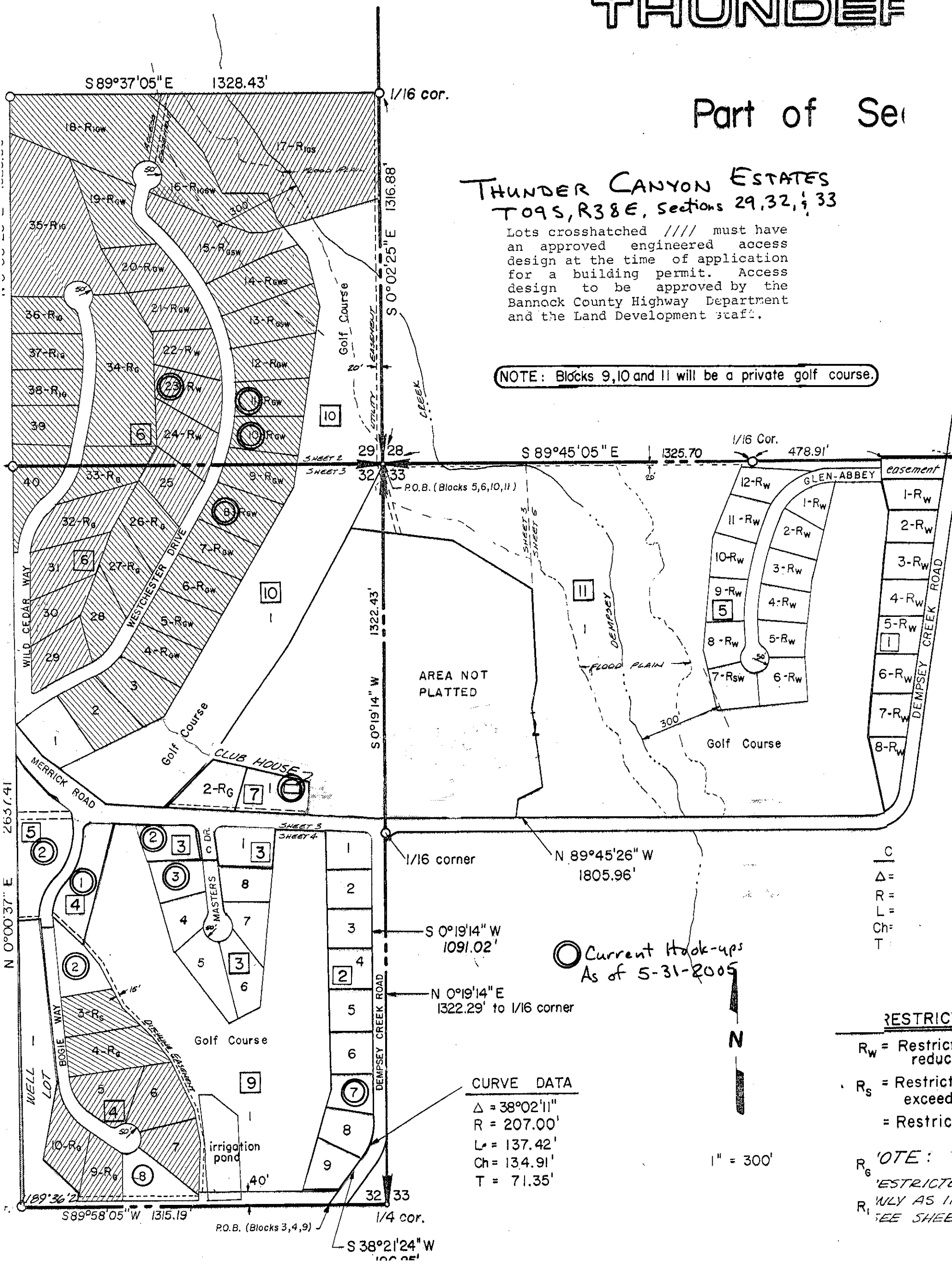
THUNDEF

Part of Section

THUNDER CANYON ESTATES T09S, R38E, sections 29, 32, 33

Lots crosshatched //// must have an approved engineered access design at the time of application for a building permit. Access design to be approved by the Bannock County Highway Department and the Land Development staff.

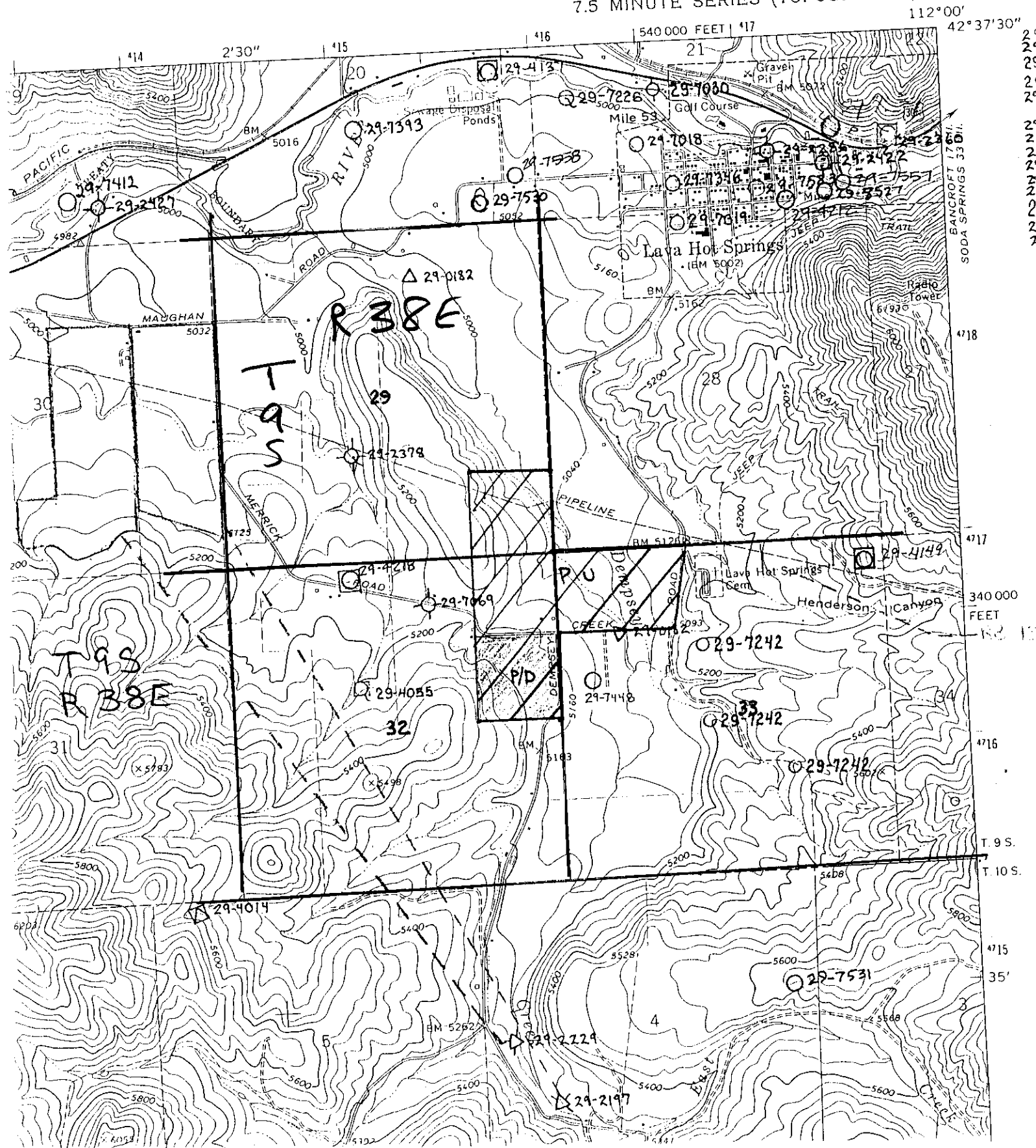
NOTE: Blocks 9, 10 and 11 will be a private golf course.

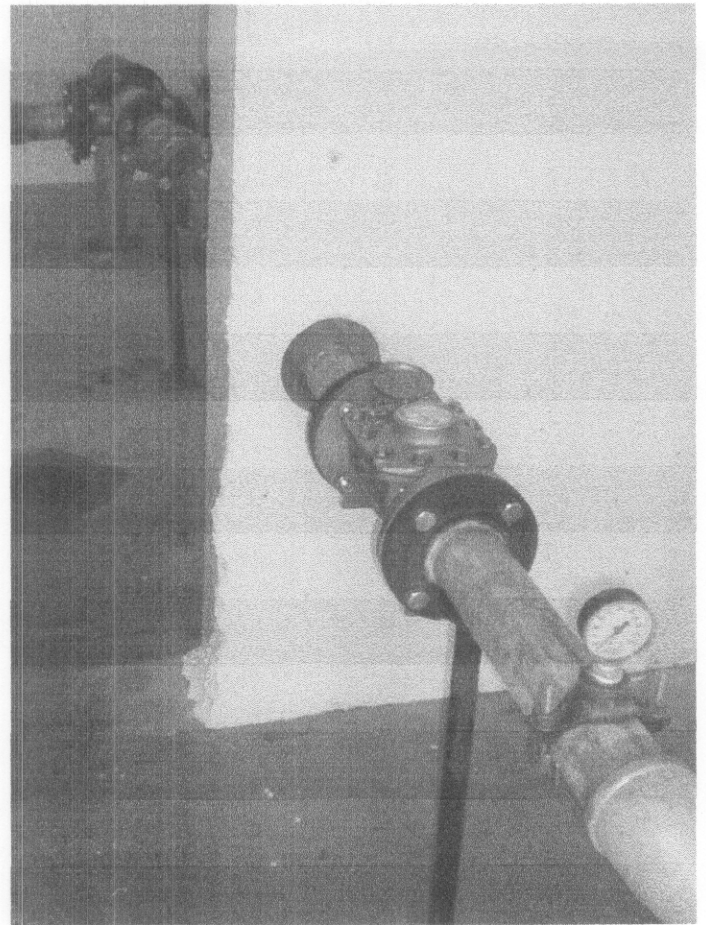
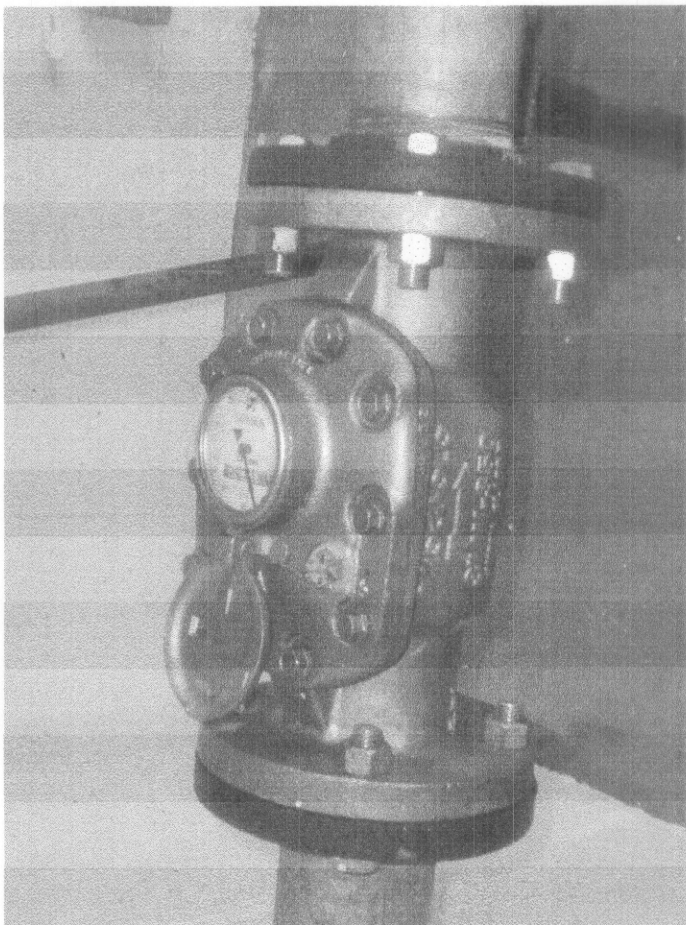
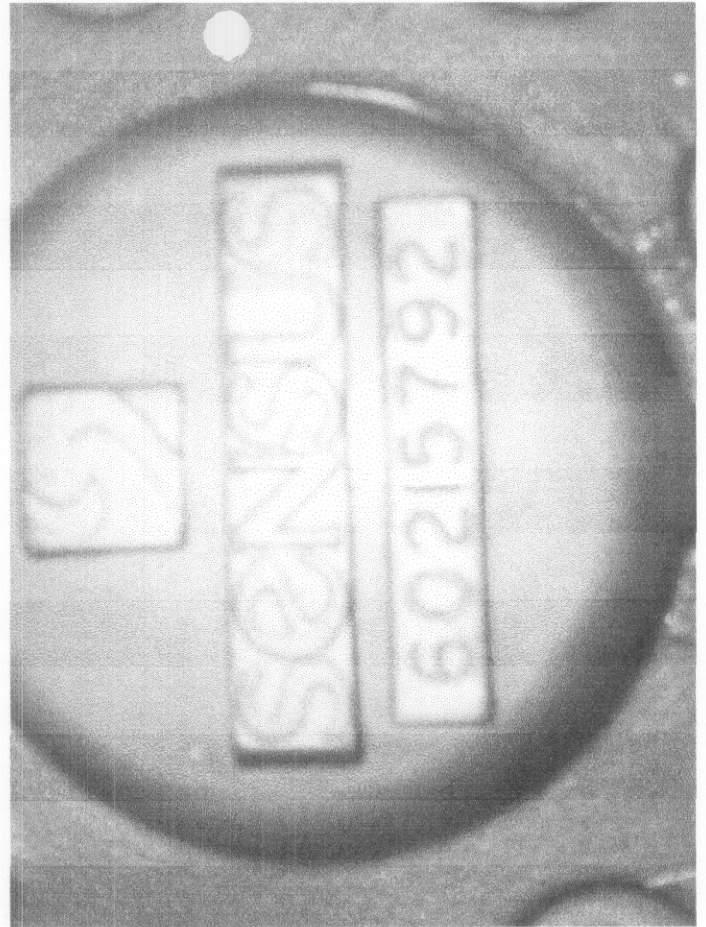
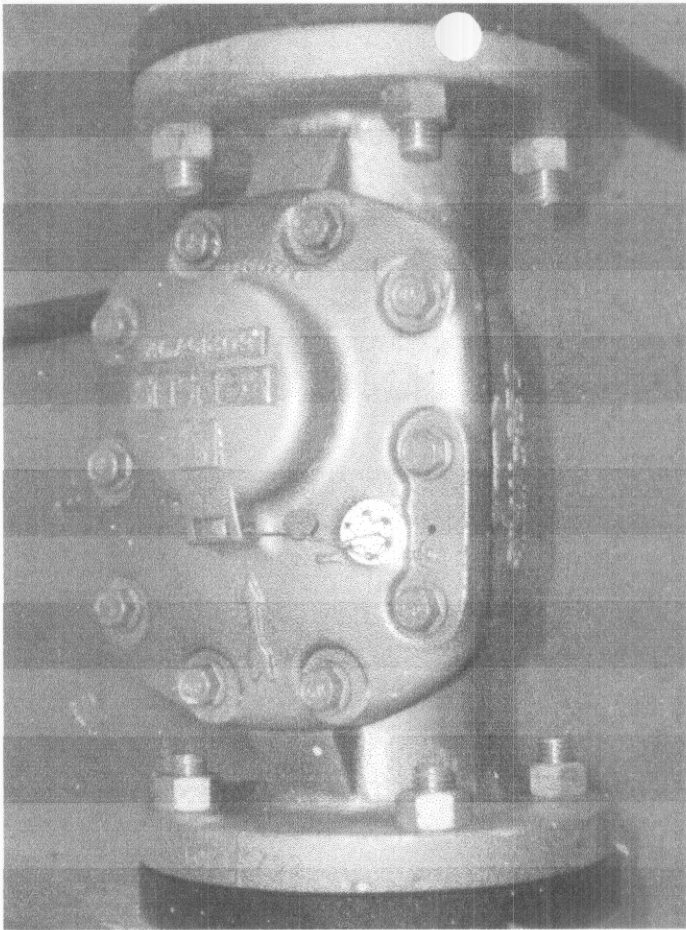


29-8080

LAVA HOT SPRINGS QUADRANGLE
IDAHO - BANNOCK CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

3669 III
(BANCROFT I)





29-8080



Looking North from Club house at section 29



Looking East from Club house

29-08080



looking West at Tank



looking North from Well house

29-08080



Entrance to Tank,



Looking North at top of tank

29-08080



Well inside well house controls at
left side of Pretum



Looking South at well house

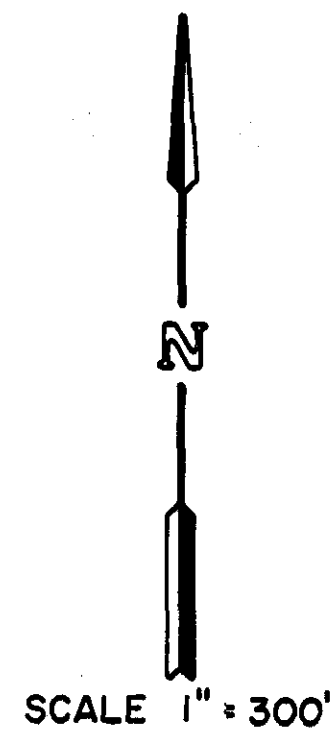
29-8080



Looking East from Well house and Tank

29-08080

BANNOCK COUNTY, IDAHO



LEGEND

SECTION CONTROL POINTS
LOT NUMBERS
BLOCK NUMBERS
EASEMENT LINE

VICINITY MAP

CLAIR W. ANDERSON

W. ANDERSON
Vacated Instr. 714553
SEE Division #2 For
NEW CONFIGURATION

CLUB HOUSE 2

SEE SHEET 2

CLAIR W. ANDERSON

○ Current stock-ups
As of 5-31-2005

29-8080

RESTRICTED LOT LEGEND

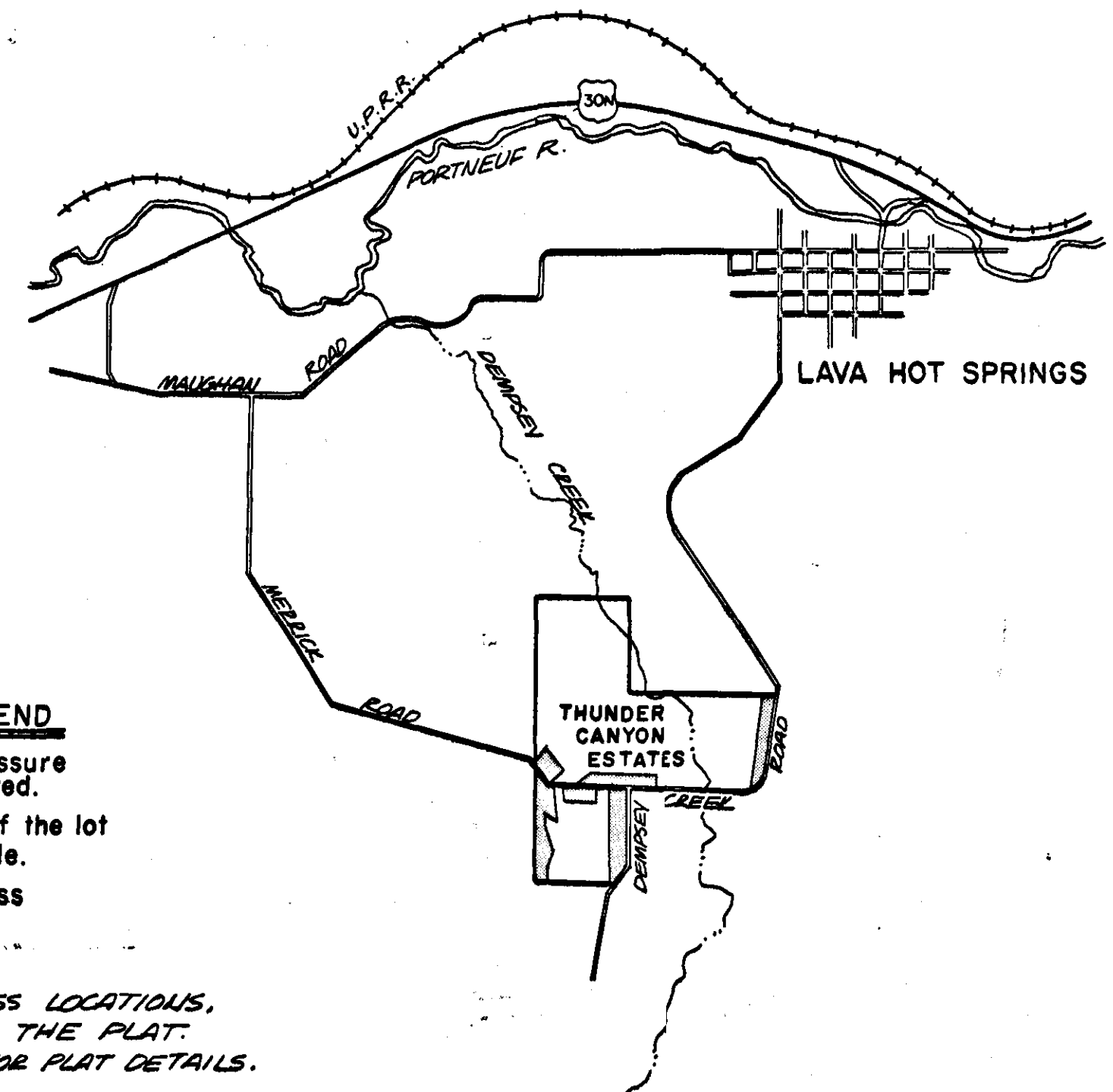
R_w = Restriction: Water pressure reducing valve required.

R_G = Restriction: A portion of the lot exceeds 20% in grade.

R_A = Restriction: To Access

NOTE:

RESTRICTED LOT ACCESS LOCATIONS,
ONLY AS INDICATED ON THE PLAT.
SEE SHEETS 2 and 4 FOR PLAT DETAILS.



HARPER-MORGAN and ASSOCIATES
ENGINEERING
SURVEYING

P. O. BOX 441 - BLACKFOOT, IDAHO **PHONE 208-745-2977**

JOB NO. 80197
DATE 9-13-82
OWN KHL
CHK DNM
APPO
REL DATE

KEY MAP

Note:
DIVISION 1 BLK 7 & 8
VACATED
INSTUMENT #97013395

29-8080

NET
1
OF
4

Part of Sections 29, 32, 33, T 9 S, R 38 E B M
Bannock County, Idaho

NOTE: Blocks 9,10 and 11 will be a private golf course.

VICINITY MAP



Section control points
Lot numbers
Block numbers
Easement line

$\Delta = 81^{\circ}52'21''$
 $R = 115.00'$
 $L = 164.33'$
 $Ch = 150.70'$
 $T = 99.74'$

R_w = Restriction: Water pressure reducing valve required.

R_s = Restriction: A portion of the lot lies within 300' of Dempsey Creek. Sanitary sewer systems will not be allowed in that portion.

R_6 = Restriction: A portion of the lot exceeds 20% in grade.

R_i = Restriction: Irrigation water not available for entire lot from company water system.

CURVE DATA
 $\Delta = 38^{\circ}02'11''$
 $R = 207.00'$
 $L = 137.42'$
 $Ch = 134.91'$
 $T = 71.35'$

$I^H \approx 300'$

P. O. BOX 441 - BLACKFOOT, IDAHO PHONE 208-785-2977

JOB NO. 83076
DATE Submitted: 3 June 1983
DWN MJH, KHL, BDJ
CHK D. Neil Morgan, R.L.S.
APPD
REL DATE

Note:
DIVISION 1 BLK 7 & 8
VACATED
INSTUMENT #97013395

KEY MAP 29-8080

HEAT
+
OF
6