

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-9012

Exam Date: 7/23/2007

1. Current Owner: ELKHORN RANCH HOMEOWNERS ASSN INC
PO BOX 918
RATHDRUM ID 83858
2. Accompanied by: KEN MOELLER
Phone No: 208-661-8043
Address: 1616 EAST SELITICE WAY POST FALLS ID 83854
Relationship to Permit Holder: MEMBER OF ELKHORN RANCH INC

3. SOURCE TRIBUTARY
GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: None
2. Other water rights with the same point of diversion: None

C. DIVERSION AND DELIVERY SYSTEM**1. LOCATION OF POINT(S) OF DIVERSION:**

GROUND WATER SE1/4NW1/4 Sec. 10, Twp 52N, Rge 04W, B.M. KOOTENAI County

Method of Determination: GPS and Map

2.

PLACE OF USE: IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
52N 04W 3									6.0	6.0	6.0	6.0					24.0
52N 04W 10			2.0		7.0		7.0										16.0

Total Acres: 40

DOMESTIC same as IRRIGATION

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Method of Determination:

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>
D5820					
D22973					

*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:

PUMP EQUATIONS			WELL # 1 (D0022973)			
WATER RIGHT No.			95-9012			
	HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI	
Q = HP*8.8*Eff/H	50	436.7755102	0.7	298	60	
Q = 0.706 cfs			317.0 gpm			

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PUMP EQUATIONS WATER RIGHT No.			WELL # 2 (D5820) 95-9012		
	HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
$Q = \frac{HP \times 8.8 \times \text{Eff}}{H}$	50	418.7755102	0.7	280	60
Q = 0.737 cfs			330.6 gpm		

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F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 40\text{ac} \times 3\text{af} = 120$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = (1.0\text{cfs} \times 246 \times 1.9835) = 487.94\text{af}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 120\text{af}$$

2. Volume Calculations for Other Uses: **48 homes X 0.6 = 28.8af Irrigation = 120af**

Total Volume 148.8af

G. NARRATIVE/REMARKS/COMMENTS: This Field Report found that water right Permit 95-9012 was for irrigation and domestic. Water permit 95-9012 should be change to a Municipal Right to meet to upcoming development in the location of Elkhorn Ranch Inc. Both wells are Municipal and the intent of the application was for future growth of the development. The diversion rate of the wells can supply the increase of use by new home with the limiting factor being the maximum diversion rate and annual volume of this permit 95-9012. This field review found that this water supply is servicing over 48 homes and is irrigating 40 acres.

Have 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>
DOMESTIC	1/01 to 12/31	0.350 CFS	
IRRIGATION	3/15 to 11/15	1.000 CFS	
<u>Totals:</u>		1.000 CFS	

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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 Eric J. Davis Date 12-11-2007

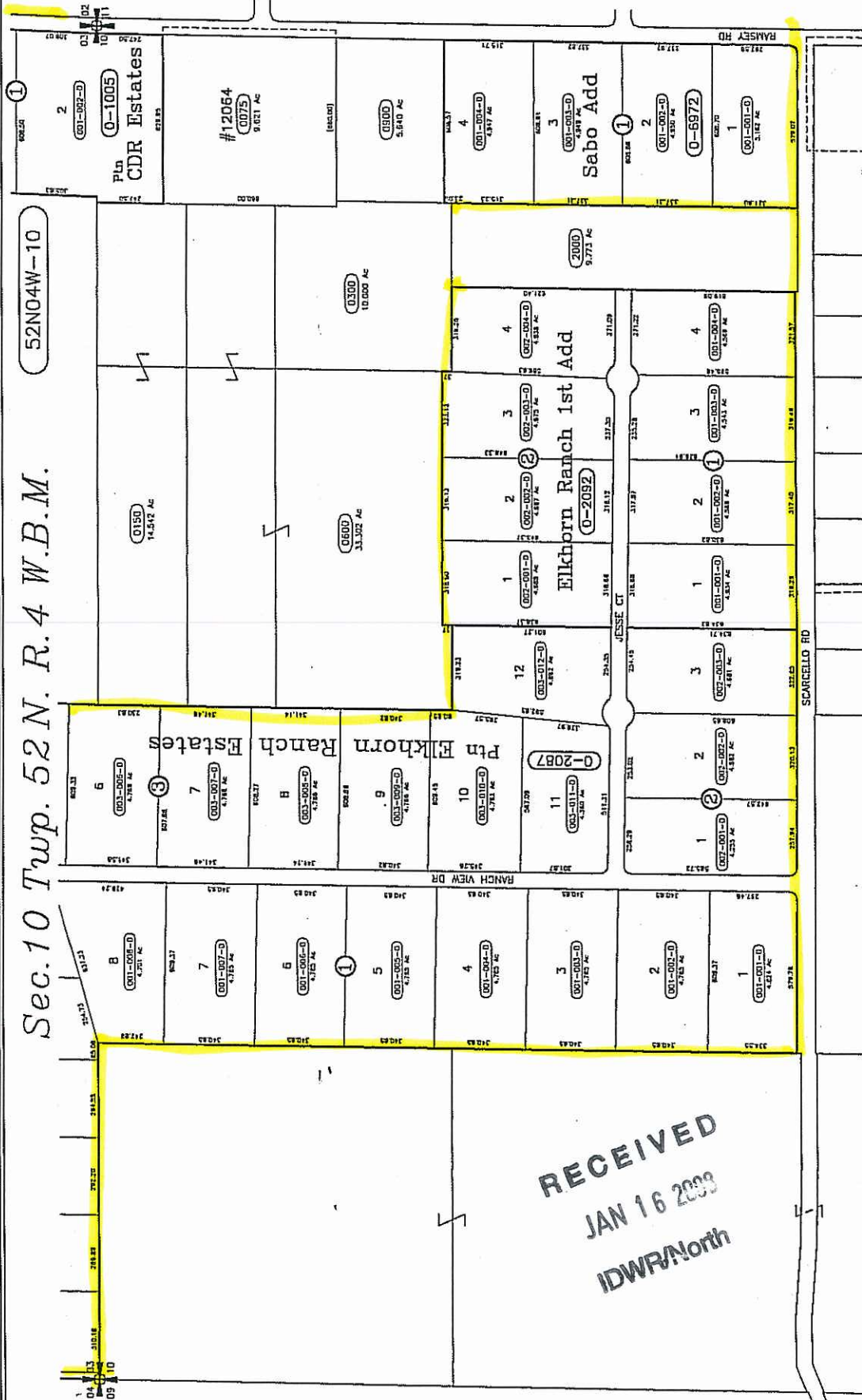
Reviewer [Signature] Date 1/30/8

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Sec. 10 Twp. 52 N. R. 4 W. B. M.

52N04W-10



RECEIVED
JAN 16 2003
IDWRA/North

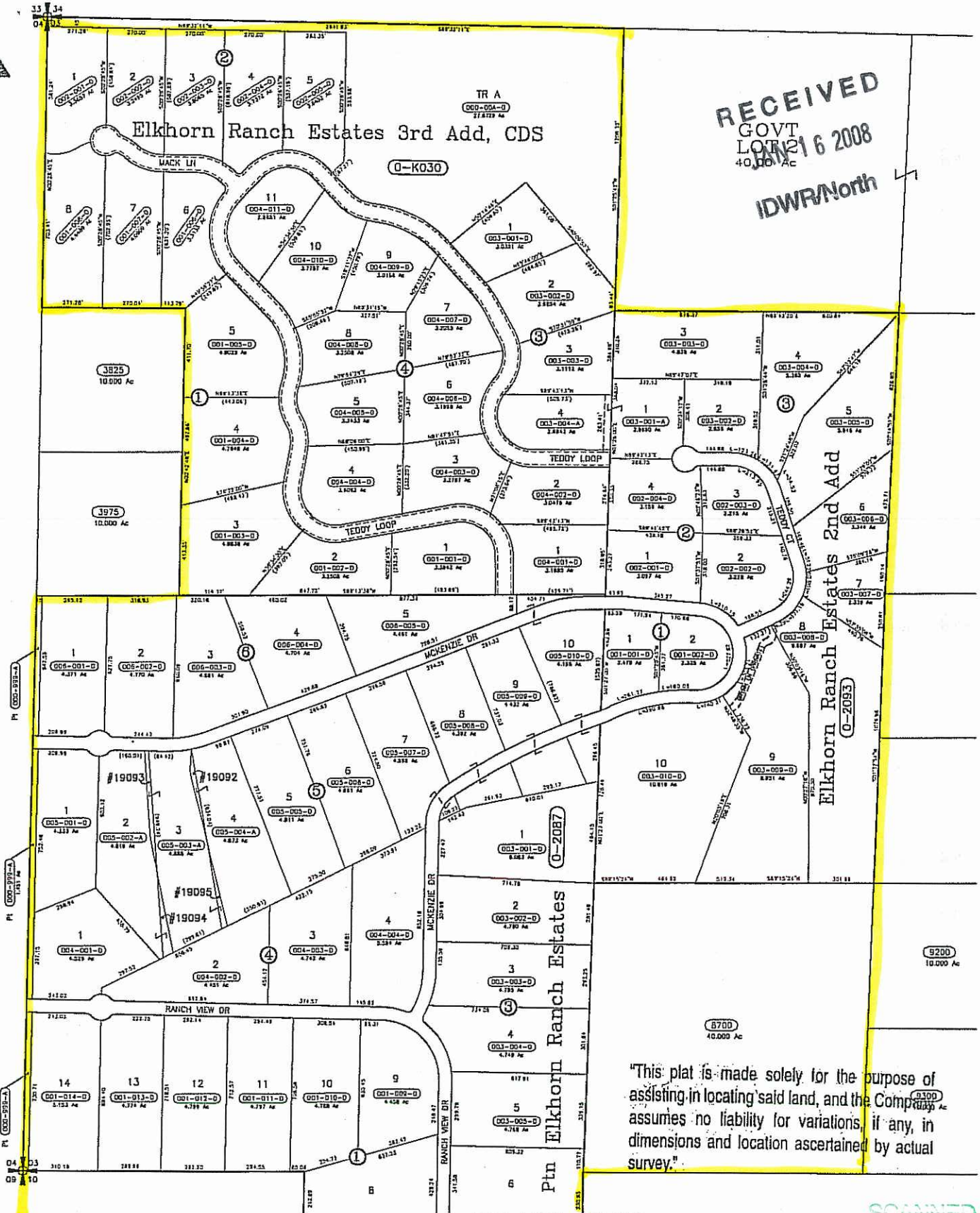
This plat is made solely for the purpose of assisting in locating said land, and the Company assumes no liability for variations, if any, in dimensions and location ascertained by actual survey.

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Sec.3 Twp. 52 N. R. 4 W.B.M.



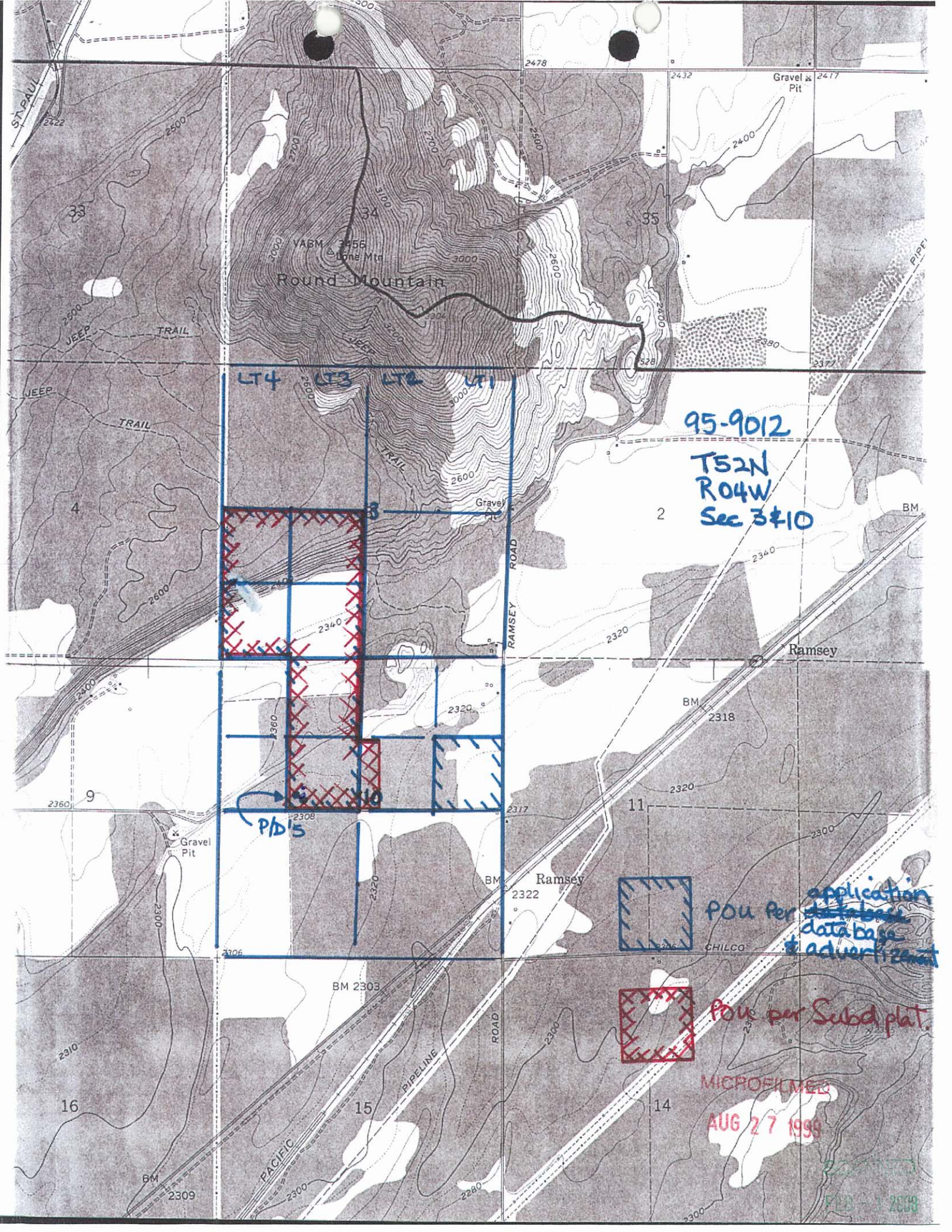
RECEIVED
GOVT
LOAN 16 2008
40.00 Ac
IDWR/North



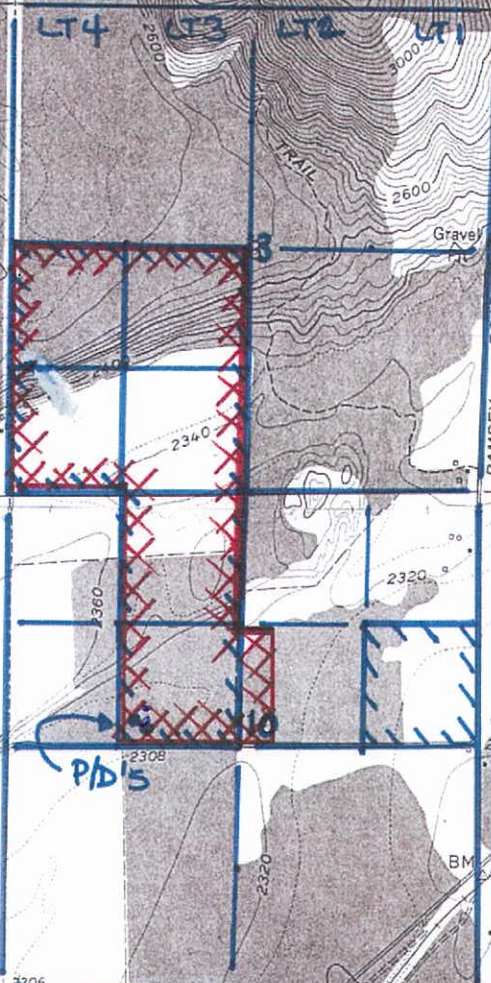
"This plat is made solely for the purpose of assisting in locating said land, and the Company assumes no liability for variations, if any, in dimensions and location ascertained by actual survey."

SCALE: 1 INCH = 400 FEET

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Sec



95-9012
T52N
R04W
Sec 3 & 10



POU per application
database
& advertisement



POU per Subd plat.

MICROFILMED
AUG 27 1999

FEB 1 2008



POD 1999 .JPG



D0005820 POD.JPG



POD 2002.JPG



D0022973 POD.JPG



power box.JPG



PIPE.JPG

95-9012

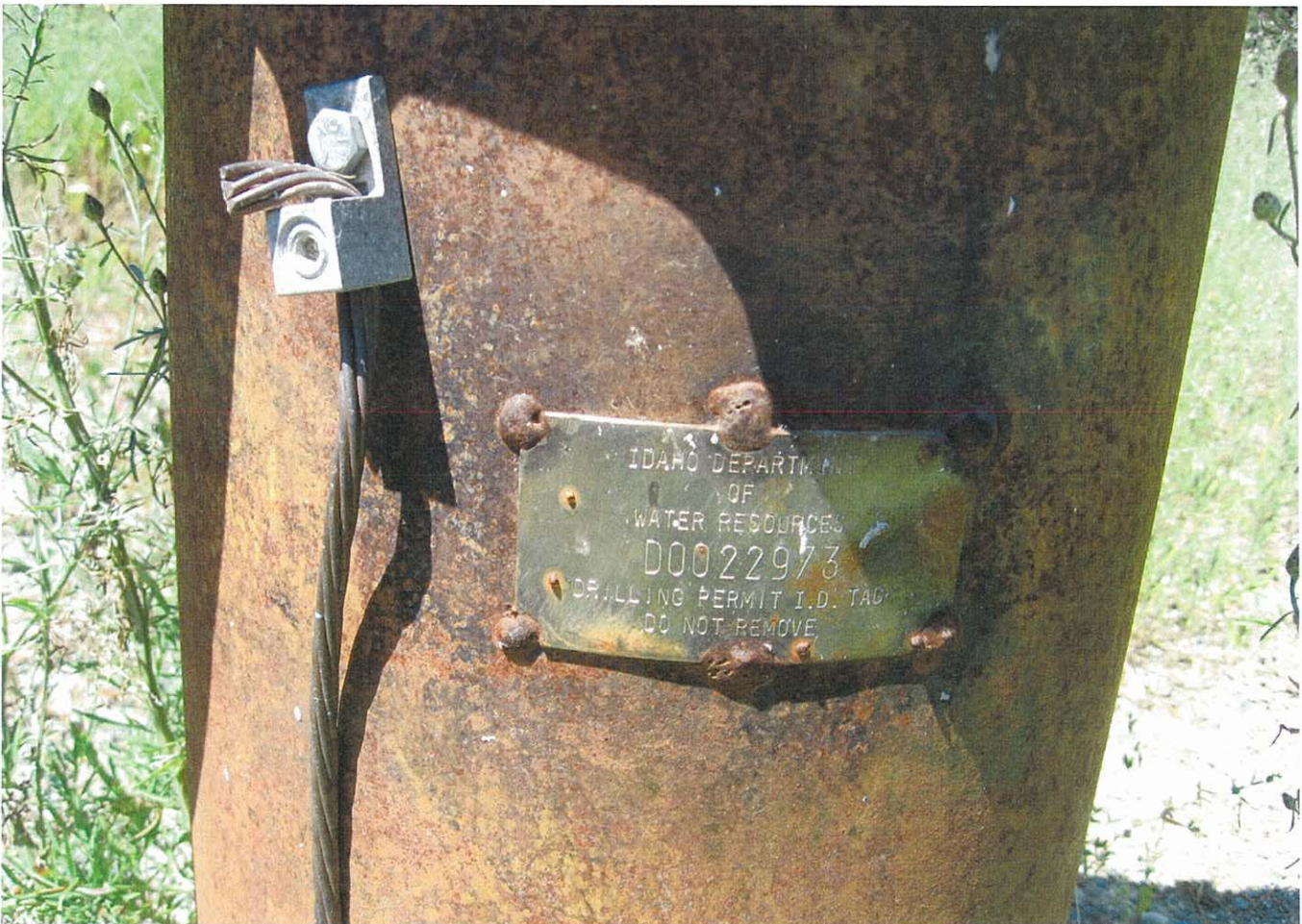


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