

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 94-7383

Exam Date: 6/21/2007

1. Current Owner: CITY OF HARRISON
PO BOX 73
HARRISON ID 83833
(208)689-3212
2. Accompanied by: Bob Poole, Rhonda Wilcox
Phone No: (208) 689,3285 / (208) 582.1530
Address: Same As Above
Relationship to Permit Holder: Maintenance Supt.

3. SOURCE TRIBUTARY
GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 94-7071
2. Other water rights with the same point of diversion: 94-7071 (not all PODs)

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

GROUND WATER	L7 NE1/4NE1/4	Sec. 1,	Twp 47N,	Rge 04W, B.M.
KOOTENAI County				
GROUND WATER	L4 SE1/4NE1/4	Sec. 1,	Twp 47N,	Rge 04W, B.M.
KOOTENAI County				
GROUND WATER	L7 NE1/4NE1/4	Sec. 1,	Twp 47N,	Rge 04W, B.M.
KOOTENAI County				

Method of Determination: Garmin GPS U.S.G.S. 7.5' Quadrangle
'Harrison'

2. PLACE OF USE: MUNICIPAL (WITHIN SERVICE AREA OF CITY OF HARRISON)

Method of Determination:

3. ☒ Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable. (Shown on Map)
- ☒ 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

94-7383

4.

<u>Well or Diversion</u> <u>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</u> <u>Size</u>
Lake Well 2	-	20	-	-	-
Lake Well 1	-	20	-	-	-
School	-	7.5	-	-	-

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

D. FLOW MEASUREMENTS

1.

<u>Measurement</u> <u>Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>
NONE	SEE	THEORETICAL	BELOW			

2. Measurements: City provided data indicating .148 CFS JAN '09
 .145 CFS 5/31/2007
 (87.8 GPM)

E. FLOW CALCULATIONS

1 Additional Computation Sheets Attached

Measured Method:

Water	Right	No.	94-7383	Lake Well 2	City of Harrison	
		HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q =	HP*8.8*Eff/H	20	516.4693878	0.7	343	75
Q =	0.239	cfs	107.2	gpm		

Well log indicates 343' for depth of well. 343' is pump depth per City. Theoretical indicates capacity greater than .17 CFS on Proof of Beneficial Use.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: NOT APPLICABLE

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

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

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

2. Volume Calculations for Other Uses: MUNICIPAL

NO LARGE INDUSTRIAL OR COMMERCIAL HOOKUPS

$$(198 \text{ TOTAL HOOKUPS}) \times (1.2 \text{ AF}) = 237.6 \text{ AF}$$

94-7383

G. NARRATIVE/REMARKS/COMMENTS

This water right (97-7383) uses capacity from City of Harrison Well Two (Lake Well 2 / IDWR Tag D0022117) drilled in 1992. City of Harrison Water Right 94-7071 covers older wells at .25 CFS. No combined limit condition is needed on 94-7383 because it is limited by Proof of Beneficial Use to .17 CFS that originates from Lake Well 2. Amendment of 94-7383 is needed to add the older well PODs.

The City of Harrison water system consists of three operating wells (Well One, Well Two, School Well), one standby well (Fredrick Street well) that is not used because of high iron content, and three water reservoirs. Well One and Well Two are located in the vicinity of the City Maintenance Shop. The School Well is located inside the City Booster Station building off Park Street. The ~~2,000,000~~ gallon Upper ~~200,000~~ Reservoir was built in 2002 and is located above the City wastewater treatment plant. The 120,000 Gallon Lower Reservoir is on Yonson Way. The 50,000 gallon capacity Cemetery Reservoir is located above the junction off Prospect Avenue and Cemetery Road.

Well outside current city limits under construction at 47 degrees 26.681, 116 degrees 46.189. This may be annexed and turned over to the City of Harrison.

Have conditions of permit approval been met? ☒ Yes ☐ No

Add other City well PODs via Amendment.

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
MUNICIPAL	01/01 to 12/31	0.170 CFS	
<u>Totals:</u>		0.170 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

Shawn M. Mager

Date

2/23/09

Reviewer

Bob Rayner

Date

2/27/09

94-7383

AUG 9 2002

IDWR/North

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

Office Use Only		
Inspected by		
Twp	Rge	Sec
1/4	1/4	1/4
Lat	Long	
☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian		

1. WELL TAG NO. D 0022117DRILLING PERMIT NO. 77957Other IDWR No. CORRECTED REPORT2. OWNER: CITY OF HARRISONName 100 EBERDICKAddress HARRISON State ID Zip

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

N									
	X								

Twp. 47N North ☐ or South ☐
Rge. 4W East ☐ or West ☐
Sec. 1 1/4 NE 1/4 NW 1/4
Gov't Lot County LAUREL Lat. Long.
Address of Well Site LAKE FRONT RD
City HARRISON

11. WELL TESTS:

Yield gal/min	Drawdown	Pumping Level	Time
50+			4 hr.

Water Temp. COLDBottom hole temp. Water Quality test or comments: CLEAN/CLEARDepth first Water Encounter 35'

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	f	N
12	0	35	BASALT BROKEN BROWN/BLACK w/ SILTY SAND		X
12	35	66	BASALT BROKEN BROWN/BLACK w/ SANDY BROWN CLAY	X	
12	66	73	BASALT BLACK FINE MED		
12	73	80	CLAY YELLOW/TAN		X
10	80	85	CLAY YELLOW/TAN		X
10	85	99	CLAY GREY HARD		X
10	99	101	BASALT BLACK HARD		X
10	101	107	BASALT BROKEN BLACK		X
10	107	119	BASALT BLACK MED w/ FRACS		X
10	119	126	BASALT BLACK/BROWN BROKEN	X	
10	126	138	BASALT BLACK MED/FRACS		X
10	138	144	CLAY GREY HARD		X
10	144	214	BROWN SANDY CLAY		X
10	214	238	BASALT BLACK MED w/ FRACS		X
8	238	248	BASALT BLACK MED w/ FRACS		X
8	248	305	BASALT BLACK HARD FINE MED	X	
8	305	315	BASALT BLACK HARD w/ FRACS		X
8	315	332	BASALT BLACK MED/FRACS		X
8	332	339	BASALT BROKEN BROWN/BLACK	X	
8	339	343	BASALT BLACK HARD/FRACS		X
8	343				
SCANNED			1-8" DRIVE SHOE UTILIZED		
AUG 13 2002					

Completed Depth 343' (Measurable)
Date: Started 7-11-02 Completed 7-19-02

13. DRILLER'S CERTIFICATION

We certify that all minimum well construction standards were complied with at the time the rig was removed.

Company Name FOGLE PUMP Firm No. 537Firm Official Joe M. Lively Date 7/24/02and Driller or Operator Joe M. Lively Date 7/24/02
(Sign once if Firm Official & Operator)

4. USE:

☐ Domestic ☒ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☐ Other

5. TYPE OF WORK check all that apply (Replacement etc.)

☒ New Well ☐ Modify ☐ Abandonment ☐ Other

6. DRILL METHOD

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other

7. SEALING PROCEDURES

SEAL/FILTER PACK	AMOUNT	METHOD
Material	From To Sacks or Pounds	
AQUA GUARD	0 80	EBERDICK PRESSURE GRout
BENTONITE GRout		w/ TREMIE PIPE

Was drive shoe used? ☐ Y ☐ N Shoe Depth(s) Was drive shoe seal tested? ☐ Y ☐ N How?

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Finer	Welded	Threaded
8	12	238.5	.322	STEEL	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length of Headpipe Length of Tailpipe

9. PERFORATIONS/SCREENS

Perforations Method
Screens Screen Type

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
						☐	☐
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

56 ft. below ground Artesian pressure lb.Depth flow encountered ft. Describe access port or control devices: CAP

FORWARD YOUR COPY TO: WATER RESOURCES

94-7383

Compare Gallons Pumped to Pump Hours

5/31/2007	Lake 1	Lake 2	School	Booster	Sewer Lift
Enter total gallons pumped.	133,700	631,500	279,400	367,080	230,724
Enter total pump hours.	37.7	119.9	120.2	26.6	45.2
Enter number of days.	31	31	31	31	31
Gallons per day - average	4,312.9	20,371.0	9,012.9	11,841.3	7,442.7
Gallons per hour	3,546.4	5,266.9	2,324.5	13,800.0	5,100.0
Gallons per minute	59.1	87.8	38.7	230.0	85.0
Total gallons per minute	185.6	= .4135 CFS			
Total Gallons Pumped = B2+C2+D2	1,044,600				
Daily Gallons Average	33,697				

City of Harrison Data JAN 2009

Well	GPM JAN '09	GPM usual	Pump depth	Pump HP
Lake #2	66.54 = .148 CFS	57-59	343'	20
Lake #1	101.97 = .227 CFS	90	300'	20
School	46.85 = .104 CFS	38	318'	7.5
(Crane Park Well)	215.36 = .47 CFS	185-187 GPM = .412-.416 CFS		
		= .4135 - .416 CFS		

198 HOOKUPS HAS REMAINED CONSTANT SINCE 2007

94-7383

Initials	Date
Prepared By	
Approved By	

WILSON JONES COMPANY

G7504 ColumnWrite

MADE IN U.S.A.

Water Usage 2006 Daily Avg

Well #1

Well #2

School
Well

TOTAL

JAN	leaks	38,948	234500	626800	346100	1207400
FEB	leaks	26,600	127000	634500	276000	1027500
MARCH		23,440	77900	971900	200300	750100
April		24,294	90600	446100	216400	753100
May		40,703	155400	759700	346700	1261800
June		46,413	184900	838200	369300	1392400
July		89,658	460300	1616000	703100	2779400
August		76,790	392800	1416500	621200	2380500
September		53,655	219900	934500	401600	1556000
October		28,335	124700	541300	212400	878400
November		25,127	89200	465900	198700	753300
December		22,344	99200	425200	190600	715000

2206400

9166600

4082400

15455400

Water Usage 2007

JAN	leaks	24,161	112800	440600	195600	749000
FEB		22,736	88100	379700	168600	636600
MARCH		20,690	91600	365600	163500	620700
April		22,977	86300	407100	195800	689300
MAY		33,697	133700	631500	279400	1044600
JUNE						
JULY						
AUGUST						
SEPTEMBER						
OCTOBER						
NOVEMBER						
DECEMBER						

94-7383

Initials	Date
Prepared By	
Approved By	

MADE IN U.S.A.

Water USAGE

2004

DAILY
Average

LakeWell
#1

LakeWell
#3

School
Well #2

TOTAL

JANUARY

33,761

164,400

604,722

277,100

1,046,600

FEBRUARY

30,025

101,700

506,300

232,700

845,700

MARCH

31,387

148,600

564,500

259,900

973,000

APRIL

37,720

153,200

671,600

306,800

1,131,600

MAY

45,095

203,800

796,300

364,000

1,384,100

JUNE

56,900

275,900

981,900

449,400

1,707,200

JULY

84,603

480,600

1,473,100

669,000

2,622,700

AUGUST

71,783

395,300

1,258,700

571,300

2,225,300

SEPTEMBER

41,473

191,000

722,100

331,000

1,244,200

OCTOBER

33,384

153,400

605,800

275,700

1,034,900

NOVEMBER

24,217

101,800

427,100

197,600

726,500

DECEMBER

26,406

87,700

496,000

234,900

818,600

TOTAL

43,063

2,477,800

9,108,100

4,169,500

15,255,400

1,312,950 per month average

Water USAGE

2005

JANUARY

29,106

118,300

546,300

237,700

902,300

FEBRUARY

27,282

82,600

471,200

210,300

763,900

MARCH

24,821

87,400

475,300

208,700

771,400

APRIL

27,410

109,600

492,300

220,400

822,300

MAY

37,197

151,800

692,900

308,400

1,153,100

JUNE

50,980

231,700

701,100

396,200

1,529,400

JULY

75,652

340,100

1,391,800

613,200

2,345,200

AUGUST

85,137

380,000

1,513,200

660,900

2,554,100

SEPTEMBER

51,977

213,400

934,500

411,400

1,559,300

OCTOBER

29,877

119,700

556,700

249,400

926,200

NOVEMBER

29,983

112,500

549,400

237,900

899,500

DECEMBER

36,661

111,500

699,900

287,000

1,098,400

2,058,400

922,400

4,041,900

15,325,100

1,277,092 per month average

94-7383

SEGREGATION REVISIONS

The revision dates below represent the file save dates for the posting of the listed revisions.
The archive dates for these revisions are posted within the ARCHIVE REVISIONS box in the drawing title block.

05/17/01 - VMC
Y-0000-006-7010 combined w/ 001-9505 (02)
07/17/01 - VMC
Y-0000-006-7005 combined w/ 001-9303 (02)
01/18/02 - VMC
47N04W-01-9425 out of 9475 (02)
09/12/02 - TH
47N04W-00-0001 created from Union Pacific RR, R/W (C2)
05/02/03 - VMC
Adjusted map for Tax #'s 12810, 12915 & 1294 (03)
05/27/03 - TH
47N04W-01-9455, 9465 & 9495 (now Y-0000-001-) annexed into
of Harrison per Ord #305 (04)
7/04 - VMC
47N04W-01-9410 out of 9475 (05)



ROOTENAI COUNTY
IDAHO

ARCHIVE REVISIONS

DATE	REVISION	DATE
05-17-01	Y-0000-006-7010 combined w/ 001-9505 (02)	05-17-01
07-17-01	Y-0000-006-7005 combined w/ 001-9303 (02)	07-17-01
01-18-02	Y-0000-006-7005 combined w/ 001-9303 (02)	01-18-02
09-12-02	47N04W-00-0001 created from Union Pacific RR, R/W (C2)	09-12-02
05-02-03	Adjusted map for Tax #'s 12810, 12915 & 1294 (03)	05-02-03
05-27-03	47N04W-01-9455, 9465 & 9495 (now Y-0000-001-) annexed into of Harrison per Ord #305 (04)	05-27-03
7-04	47N04W-01-9410 out of 9475 (05)	7-04

Map File: 47N04W-01-9410.dwg
Drawing File: 47N04W-01-9410.dwg

NOTES:

All lots or parcels with plan numbers and distances were
checked by the Rootenai County Assessor's Office and found to be
correct. The Rootenai County Assessor's Office is not responsible for
any errors or omissions in this map. The Rootenai County Assessor's
Office is not responsible for any errors or omissions in this map.
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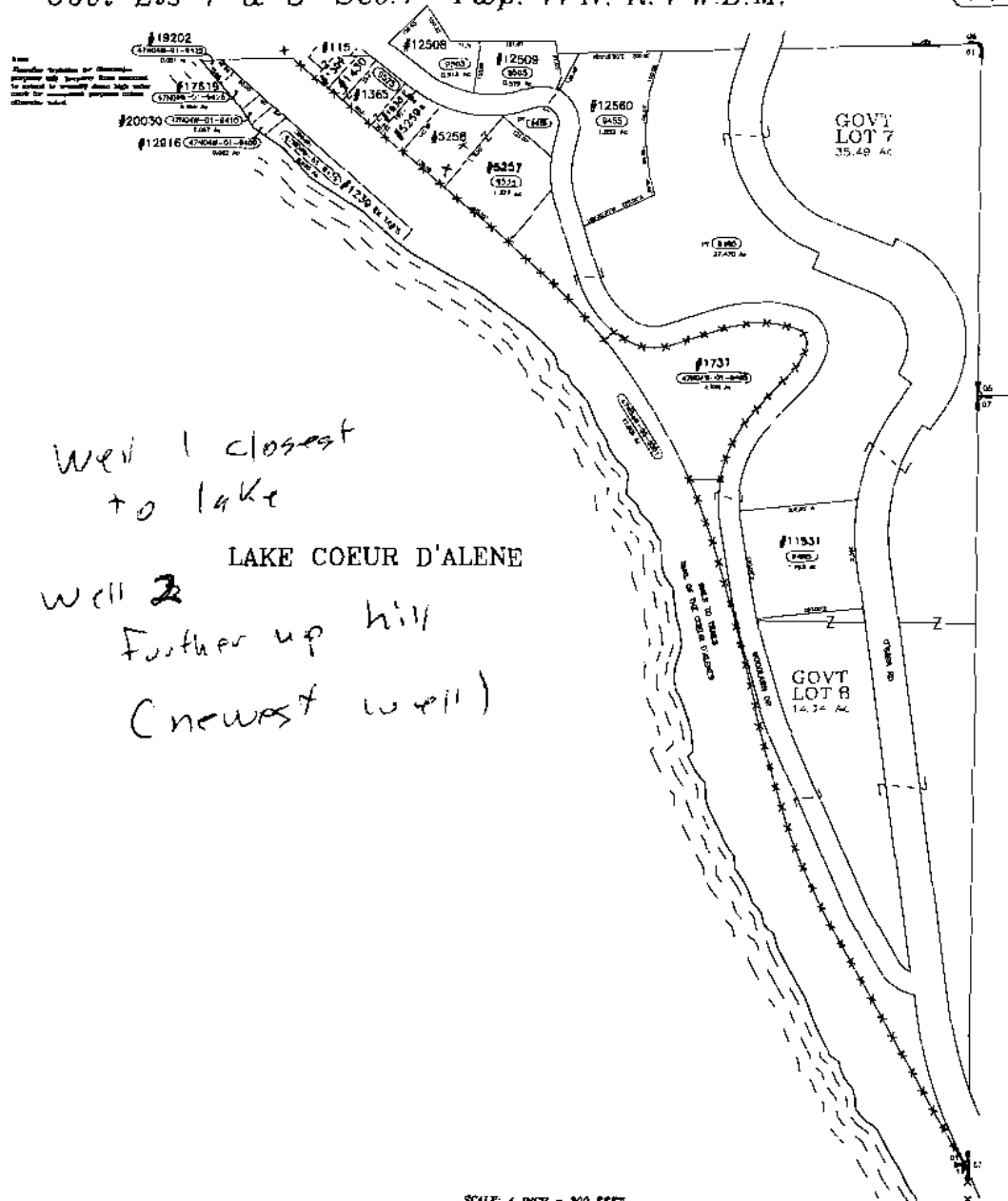
Location of each lot is shown on the map. The location of each
lot is shown on the map. The location of each lot is shown on the
map. The location of each lot is shown on the map.

Survey of Survey used:

Survey of Survey used:

Govt Lts 7 & 8 Sec.1 Twp. 47 N. R. 4 W.B.M.

Y-0000-001



THIS PARCEL
ASSESSED IN
SEC. 8 47N03W

GOVT
LOT 3

#941

GOVT
LOT 4

1925
14,080 Ac

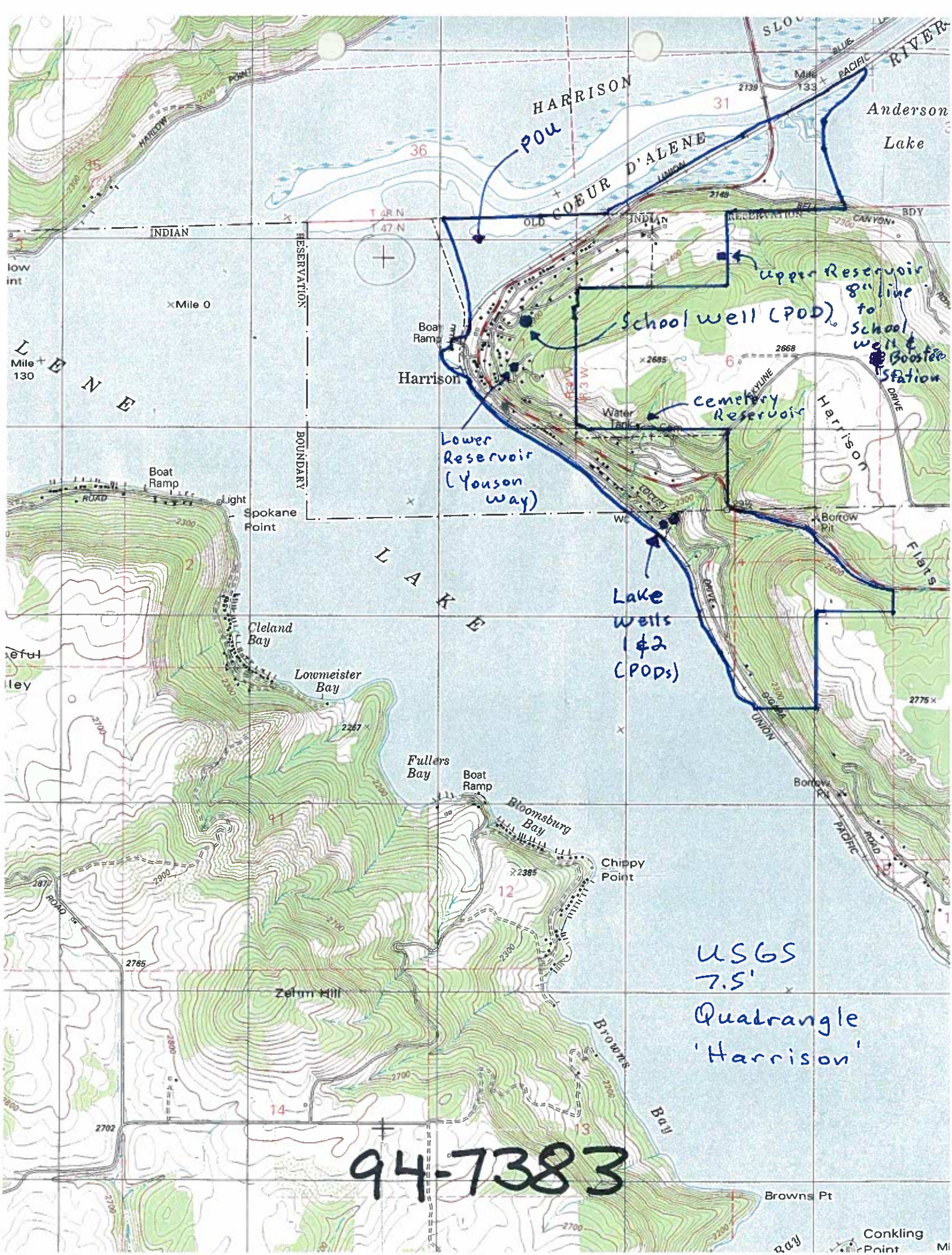
School #2
well
approx

94-7383

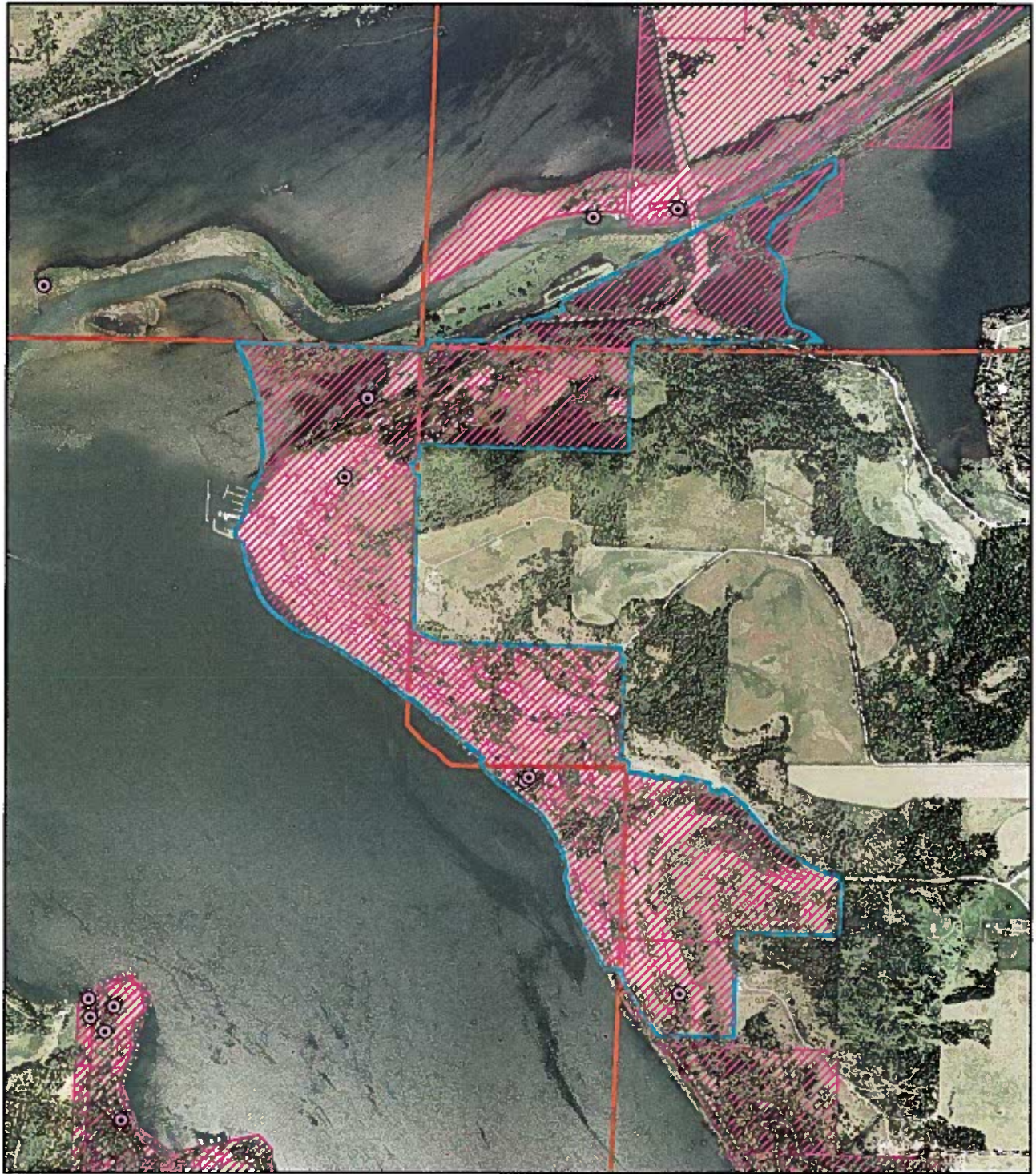
SCALE: 1 INCH = 200 FEET

#18097

N 1/2 Sec. 1 Twp. 47N. R. 4W. B.M.



94-7383



94-7383



92-7283 Fredrick Well
D0013091.JPG



94-7383 Cemetery Res &
Valve.JPG



94-7383 Cemetery
Reservoir.JPG



94-7383- Fredrick Well
Location.JPG



94-7383 Low Reservoir &
City Employee.JPG



94-7383 Monitor Panel
inside Booster Station.JPG



94-7383 School Well at
Booster Station.JPG



94-7383 Shop Well One.JPG



94-7383 Shop Well Two
location.JPG



94-7383 Shop Well Two Tag
Close-Up.JPG



94-7383 Upper
Reservoir .JPG

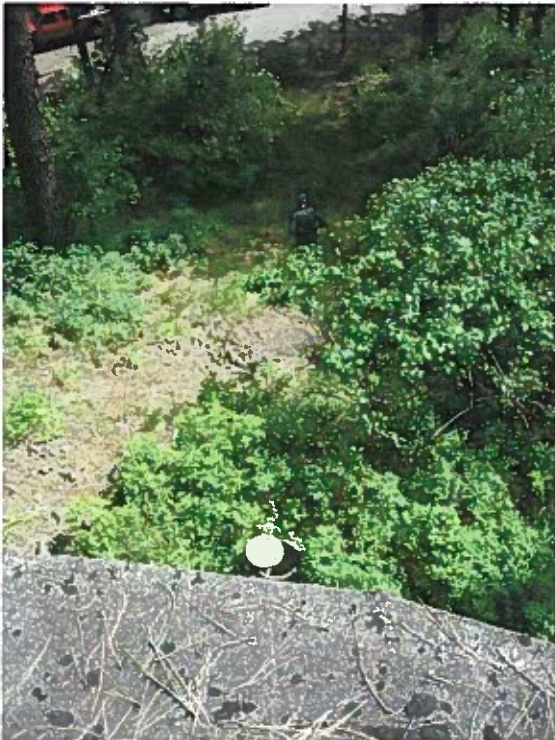


94-7383 Well Two above
Shop.JPG

94-7383



94-7383 Fredrick Well D0013091



94-7383 Cemetery Res & Valve

94-7383



94-7383 Cemetery Reservoir



94-7383 Fredrick Well Location

94-7383



94-7383 Low Reservoir & City Employee



94-7383 Monitor Panel inside Booster Station

94-7383



94-7383 School Well at Booster Station



94-7383 Shop Well One

94-7383

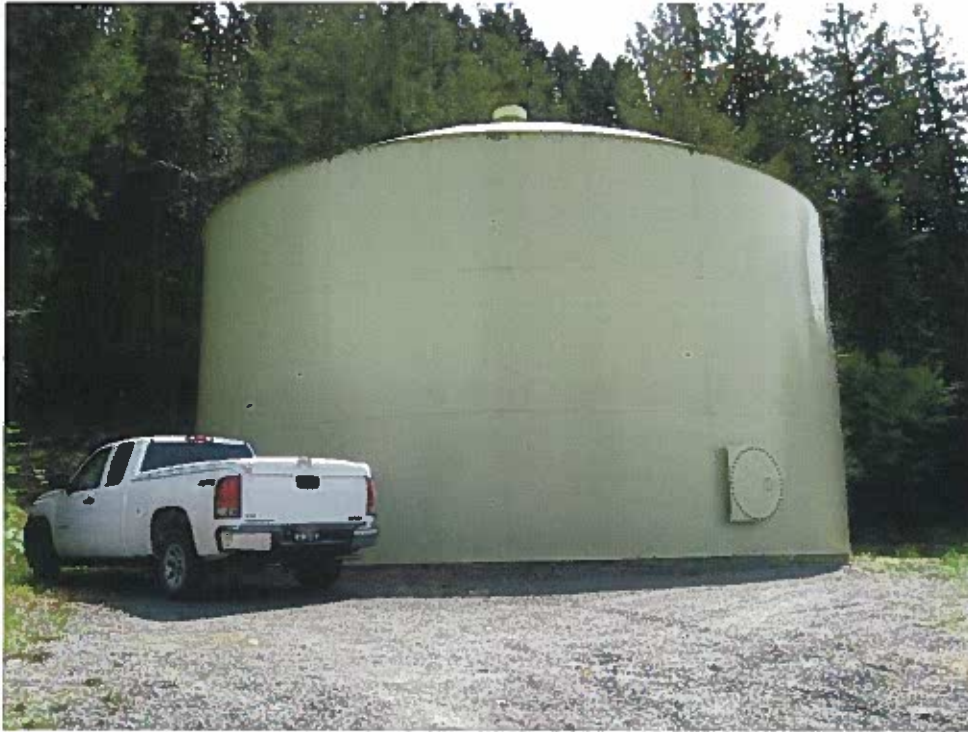


94-7383 Shop Well Two location



94-7383 Shop Well Two Tag Close-Up

94-7383



94-7383 Upper Reservoir



94-7383 Well Two above Shop

94-7383



Bureau of Land Management - General Land Office Records



Search Land Patents



Search Surveys

Visitors Center

FAQ

Survey Details

[Home](#) > [Survey Search](#) > [Results List](#) > [Survey Details](#)

Townsite Survey

Townsite Of Harrison

• Twp 47N-4W, ID, Boise

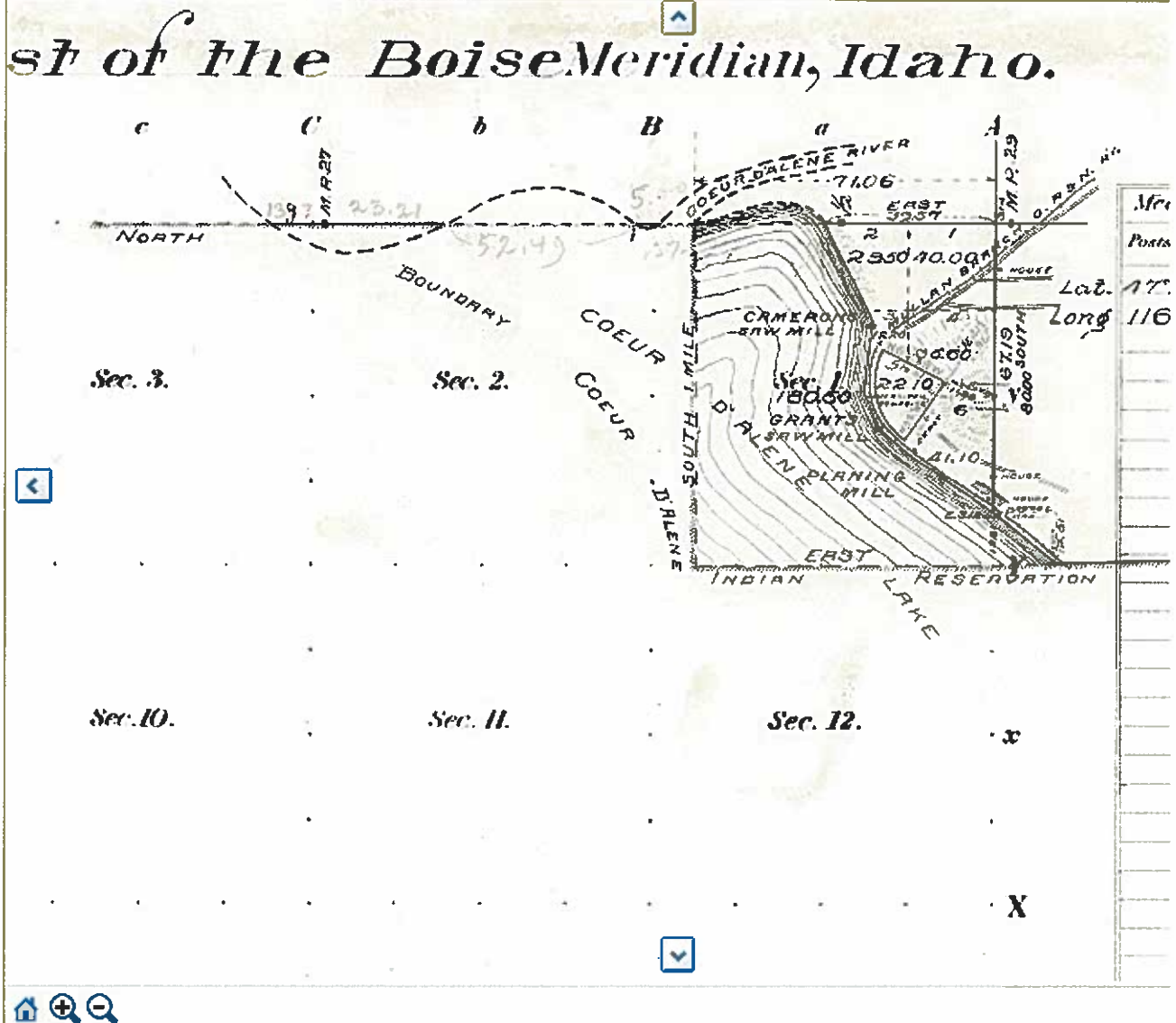
Survey Details

Plat Details

Plat Image

Field Note Images

Description: —



Basic Viewer

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Bureau of Land Management - General Land Office Records



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Search Surveys

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FAQ

Survey Details

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Original Survey • **Twp 47N-3W, ID, Boise (West, State boundaries and Subdiv. Lines)**

[Survey Details](#) [Plat Details](#) [Plat Image](#) [Field Note Images](#)

Description: ---

COEUR D'ALENE
Township No 47 North, Range No 3 West

Previous Survey

New North boundary

Sec. 6, 54.87

Sec. 5, 121.94

Sec. 4, 135.12

Sec. 8, 64.0

Sec. 9, 64.0

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