

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

RECEIVED

SEP 21 1994

Department of Water Resources

A. GENERAL INFORMATION

1. Owner: ROBERT COLMAN Permit No. 37-08465
Current Address: c/o GREGG K. Sturtevant P.O. Box 2924 KETCHUM, ID 83340 Phone No. 726-3250
2. Accompanied by: _____ EXAM. DATE: 7-24-91
Address: _____ Phone No. _____
Relationship to Permit Holder: _____
3. Source: GROUNDWATER tributary to _____

B. OVERLAP REVIEW

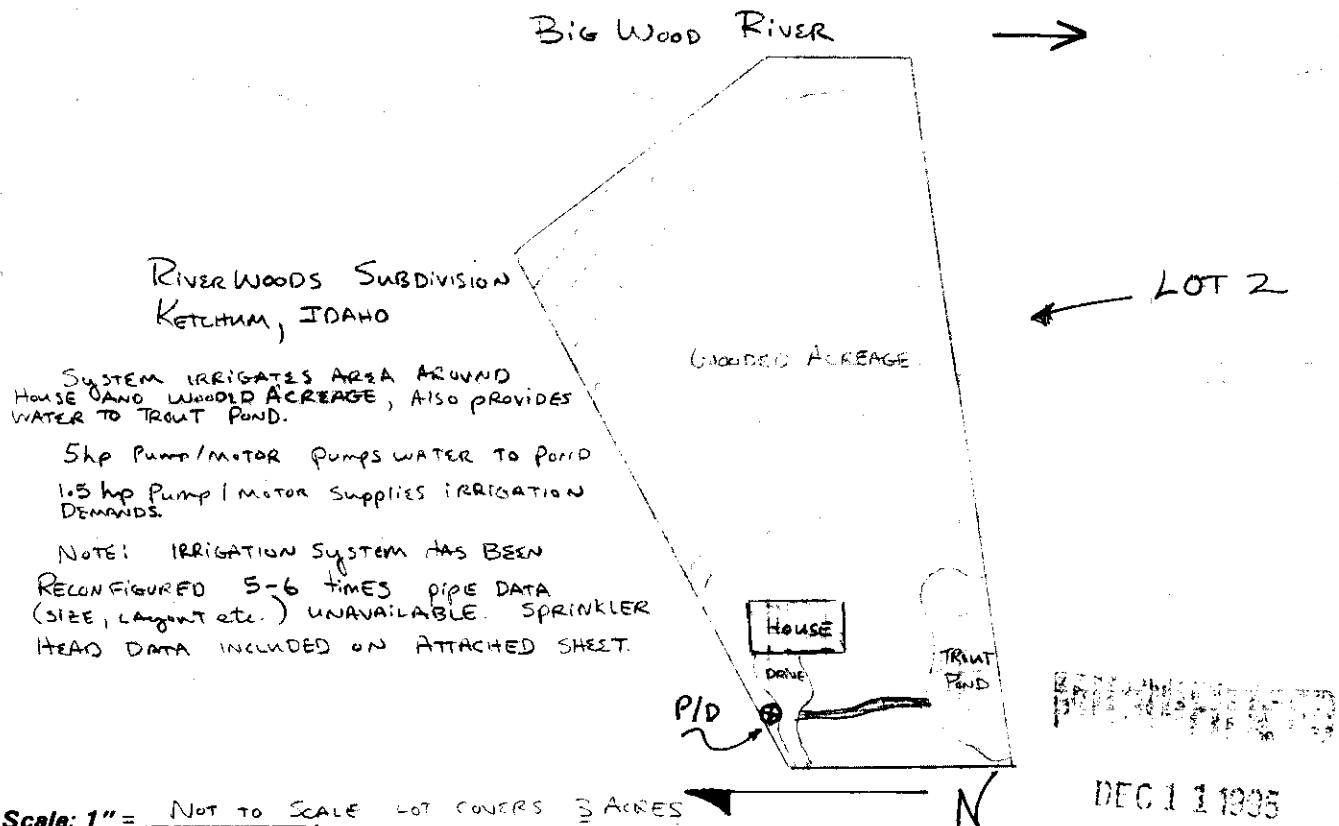
1. Other water rights with same place of use: NONE

☐ Copies Attached
2. Other water rights with same point of diversion: NONE

☐ 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



2. ☒ Copy of U.S.G.S. 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 or more).
☒ Photo of Diversion and System Attached
(required for all but single household domestic groundwater, and stockwater).

System Description (continued)

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

SYSTEM NOT OPERATING AT TIME OF FIELD EXAM. IRRIGATION SYSTEM HAS BEEN RECONFIGURED 5-6 TIMES AFTER INSTALLMENT. CURRENT PIPE DIMENSIONS AND LAYOUT UNAVAILABLE.
 INFORMATION PROVIDED BY GREGG Sturtevant.
 SYSTEM OPERATES WITH THE FOLLOWING EQUIPMENT
 5hp Pump/MOTOR PROVIDES 126 gpm @ 30 p.s.i. = 0.28 cfs for aesthetics
 1.5hp Pump/MOTOR PROVIDES 24 gpm @ 40 p.s.i. = 0.05 cfs for irrigation
 - SMALL MAN MADE STREAM OPERATES 100 days/year at 126 gpm

☒ See Remarks on page 4 for continuation

4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
	STA-RITE	5hp	M4J025-20	STA-RITE	70J402A-06
	RED JACKET	1.5hp	—	RED JACKET	—

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

5. Point(s) of Diversion:

Ident. No.	Gov't. Lot	1/4	1/4	1/4	Sec.	Twp.	Rge.	County	Method of Determination/Remarks
		NW	NW	SE	1	4N	17E	BLAINE	TOPOGRAPHIC MAP

6. Place(s) of Use: A = AESTHETIC USE

Indicate Method of Determination IDWR PROOF READING REPORT

Twp.	Rge.	Sec.	NE 1/4				NW 1/4				SW 1/4				SE 1/4				Totals
			NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	
4N	17E	1														3			3
4N	17E	1														A			
																			3

Do not use this space

D. FLOW MEASUREMENTS

☐ Additional Data Sheets Attached

1.

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

2. Measurements:

UNABLE TO TAKE MEASUREMENT AT TIME OF FIELD EXAM.
 HOWEVER -
 5hp Pump/Motor 126 gpm @ 30 p.s.i.
 1.5hp Pump/Motor 24 gpm @ 40 p.s.i.

E. FLOW CALCULATIONS

☒ Additional Computation Sheets Attached

1. Measured Method:

THEORETICAL (HORSE POWER EQUATION)

2. Alternate Method for Checking Purposes:

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:

$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = (3.0 \text{ acres}) \times (3.5 \text{ af/a/season}) = 10.5 \text{ af}$

$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = (.09) \times (214) \times 1.9835 = 38.2 \text{ af}$

$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 10.5 \text{ af}$

2. Volume Calculations for Other Uses: - VOLUME CALCULATION FOR MANMADE STREAM

7,560 gal-Perhr. x 24 hrs = 181,440 gallons per day

181,440 gallons per day x 100 days = 18,144,000 gallons per year SEP 1 1995

$K \text{ af} = 18,144,000 \text{ gallons} \left| \frac{1 \text{ af}}{3.259 \times 10^5 \text{ gal}} \right| = 55.7 \text{ af}$

H. REMARKS AND OVERLAP REVIEW ANALYSIS

Would Recommend licensing of .05 cfs for irrigation
~~and .28 cfs for Aesthetic purposes as per permit.~~
 Property is Lot 2 of Riverwoods Subdivision, at #50 Adams Gulch Road.
 - Current use is an FONA - Point where aesthetic flow enters Big
 .41 cfs - AESTHETIC TOTAL = .50 cfs Wood River is unknown.
 .09 cfs - IRRIGATION
 Permit - .09 cfs IRRIGATION RECOMMEND - .09 cfs IRRIGATION
~~.28 cfs AESTHETIC~~
 EXAM - .09 cfs IRRIGATION
~~.41 cfs AESTHETIC~~ There is domestic use on this
 property as required by permit.

I. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
IRRIGATION	4/15	10/15	0.05 ~~10.0~~ cfs	10.5 ~~10.0~~ afa
AESTHETIC	5/1	10/1	0.28 cfs	55.7 afa
Totals:			.33 cfs	~~66.2~~ afa 66.2

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 JUSTIN BOLLES
 Signature *Justin Bolles*
 Certification Date _____
 Field Report Preparation Date 7-29-91

CONSULTANT SEAL

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

DEC 11 1995

2

37-08465

$$7,560 \text{ gallons/hr} \times 24 \text{ hrs} = 181,440 \text{ gallons per day}$$

$$181,440 \text{ gallons per day} \times 100 \text{ days} = 18,144,000 \text{ gallons per year}$$

$$X_{af} = 18,144,000 \text{ gallons} \left| \frac{1 \text{ af}}{3.259 \times 10^5 \text{ gal}} \right| 55.7 \text{ af}$$

$$\boxed{55.7 \text{ af a}}$$

RECEIVED
MAY 19 1965
OFFICE 100

37-08465

SYSTEM DESCRIPTION - CONTINUED -

SPRINKLER HEAD ESTIMATE

COUNT	MFGR.	CAT. No.	P.S.I.	RADIUS	G.P.M.
42	RAINBIRD	P186-Q	30	12.0'	.50
10	RAINBIRD	B176-T	30	12.0'	.67
62	RAINBIRD	P186-H	30	12.0'	1.00
26	RAINBIRD	P186-F	30	12.0'	2.00
42	RAINBIRD	1812	—	—	—
74	RAINBIRD	P3-PJ	30	33.0'	1.7
66	RAINBIRD	15103	30	33.0'	1.7

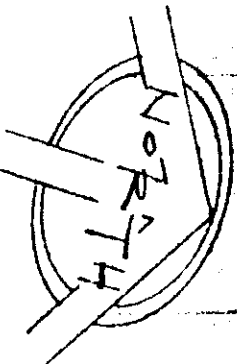
↑ PROVIDED BY "GREGG STURTEVANT"

NOTE: SPRINKLER SYSTEM HAS BEEN RECONFIGURED
5-6 times after initial installment. Complete
diagram of system not available.

RECORDED
DEC 11 1965

SPRINKLER HEAD LEGEND

SYMBOL	TYPE	DESCRIPTION	CAT. NO.	PATTERN	NOZZLE	P.S.I.	PSR.	G.P.M.
<	PAINTED	BRASS SPRAY	B-188-Q	Y4	FLAT	30	7.0'	.65
<	"	"	B-176-T	Y3	LOW CAL	30	12.0'	.67
<	"	"	B-188-H	Y2	FLAT	30	7.0'	1.30
<	"	"	B-188-F	FULL	FLAT	30	7.0'	2.00
<	"	PLASTIC LOW CAL.	P186-Q	Y4	LOW CAL	30	12.0'	.50
<	"	BRASS " "	B176-T	Y3	" "	30	12.0'	.67
<	"	PLASTIC " "	P186-H	Y2	" "	30	12.0'	1.00
<	"	" " "	P186-F	FULL	" "	30	12.0'	2.00
<	"	HIGH P.S.I. BODY	B12	USE WHERE SYMBOL IS CIRCLED				
<	"	IMPLICIT SPRINKLER	P3-PJ	FOR P	07	30	33'	1.7
<	"	MINIPRIS	15103	FOR P	07	30	33'	1.7
<	"	BUBBLERS	1402			30	3'	.50



SCALE 1" = 16.0'

LANDSCAPE ARCHITECTURE and PLANNING

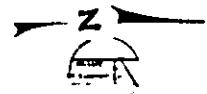
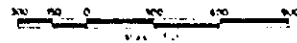
P.O. BOX 1017
KETCHUM, IDAHO 83340

(208) 726-9607

DRAWING TITLE
PROJECT:
COL
LOT 2

JOB NO
DESIGN
DRAWN
CHECKED
DRAWING NO

A PORTION OF-
The SE 1/4 of Sec 1 B NE 1/4 of Sec 12, T 4 N. R 17 E. BM
BLAINE COUNTY, IDAHO
1976

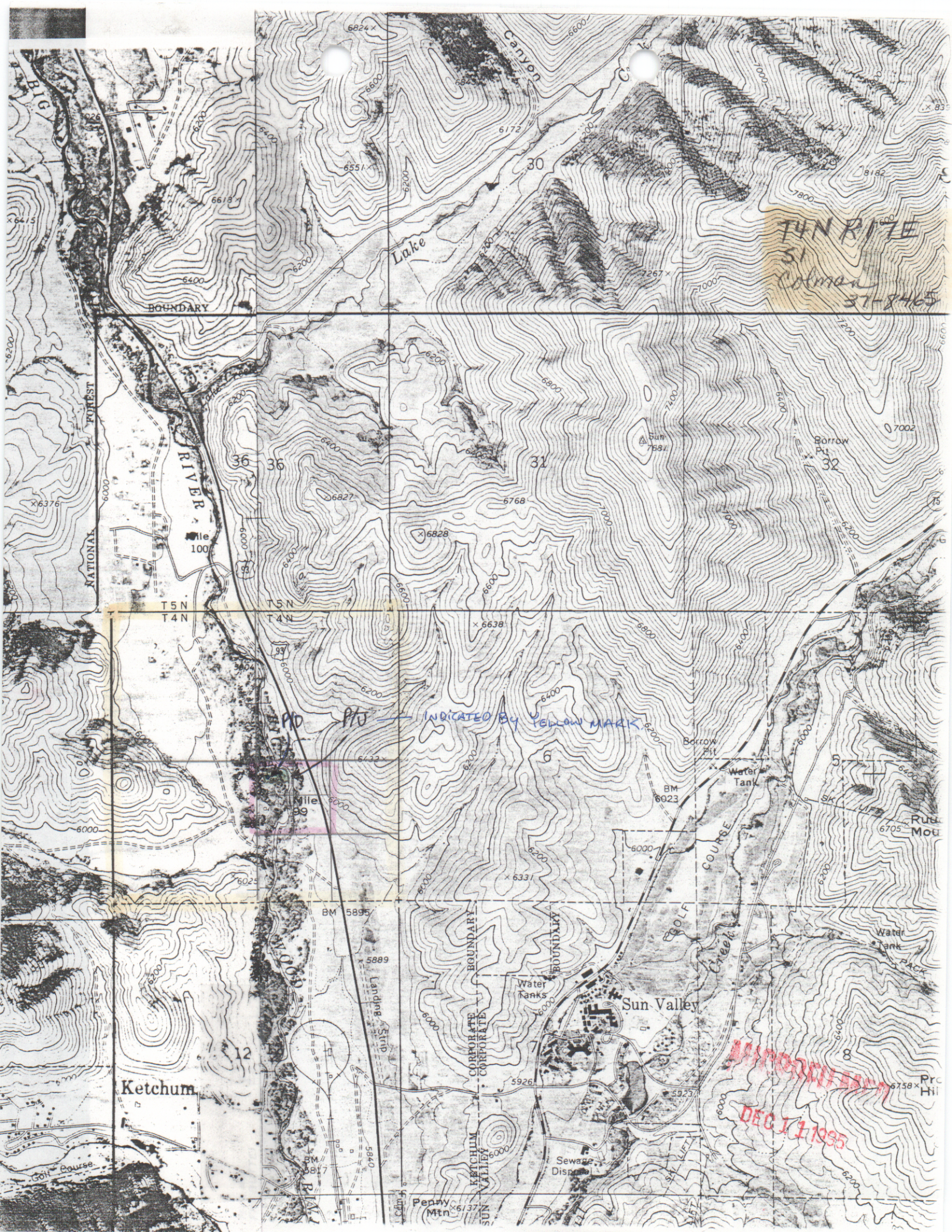


1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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- 1 There is hereby reserved a drainage easement of sufficient width to serve those lots of drainage water coming off existing natural drainage.
- 2 There is hereby returned to their owner and state of the easement 20' drainage and 40' easement of the respective owners of the mutually easement on Lots 7 and 8.
- 3 Let it then not be considered binding, into the 1:20 record problem as a discharge and return to the satisfaction of the Blaine County Commissioners and the Northern City Council.
- 4 Let it then not be considered binding and on this 10th day of 1991 is provided to the satisfaction of the same public officials.

[illegible][illegible]

KOONCE & BUTLER
CONSULTING ENGINEERS



LEN MEADOWS NO. 1 SUBDIVISION
ULEN MEADOWS NO. 7 SUBDIVISION

T. 5 N.
T. 4 N.

36|31

16

R. 17 E.
R. 18 E.

SION

SUBDIVISION

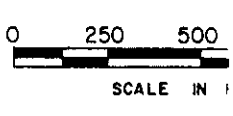
LCH SUBDIVISION

RIVERWOODS SUBDIVISION

BEAVER SPRINGS SUBDIVISION

FLOWERS
HOMESTEAD
SUBDIVISION

KETCHUM CITY LIMITS



1500	1506
1800	1802
Detail of Page 18	

SEC. 1, T. 4 N., R. 17 E.

Edwards, Howard &
ENGINEERS / PLANNERS