

UNITED STATES DEPARTMENT OF AGRICULTURE

FOREST SERVICE

2620

CLEAR CREEK AND GRANITE CREEK

REHABILITATION PROJECT

UMATILLA NATIONAL FOREST DALE RANGER DISTRICT

March 8, 1965

Revised January 30, 1967

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STREAM REHABILITATION TO ENHANCE
ANADROMOUS FISH PRODUCTION IN THE
GRANITE AND CLEAR CREEK DRAINAGE
UMATILLA NATIONAL FOREST
DALE RANGER DISTRICT

I. Introduction

The Granite and Clear Creek Drainage is located in the northeast corner of Grant County, Oregon and in the extreme east side of the Dale Ranger District. This drainage is a main tributary to the head waters of the North Fork of the John Day River. Approximately 4 miles of the project area is on the Baker, District, Wallowa-Whitman National Forest.

This plan is a part of and supplements the Dale Ranger District Wildlife Management Plan dated March 20, 1964.

1. Area Encompassed

The area begins at the mouth of Granite Creek, section 24, T. 8 S., R. 34 E., up Granite Creek to section 27, T. 8 S., R. 35 ½ E., up Bull Run Creek to section 3, T. 9 S., R. 35 ½ E., up Clear Creek to section 23, T. 9 S., R. 35 E., and up Olive Creek to section 35, T. 9 S., R. 35 E.

There are approximately 2,000 acres within the project area. There is 240 acres of this on private land. Approximately 28 miles of stream in the project area is useable by anadromous and resident fish. The average width of the project area is 500 feet.

2. Project Objectives

- a. To rehabilitate the fish habitat, both anadromous and resident.
- b. To stop excessive erosion along the stream banks and adjacent areas.
- c. To reduce stream temperatures and provide cover by reestablishment of vegetation along the stream bank.
- d. To reestablish timber, browse and forage production.
- e. To eliminate the extensive infestation of noxious weed (Canada thistle). Refer to picture number 17 in the Appendix.
- f. To provide more fish for the increasing needs of the recreationist and the commercial fisheries.

g. To provide small pond type fishing for the recreationist using the area.

3. Other Uses of the Area

a. Grazing Use

This area lies within the Rabbit Creek S and G Allotment. Approximately 900 sheep graze this area annually. Beginning in 1965 the permittee plans to take non-use.

b. Timber Production

There are four sales planned for this area in the next five year period. There are at present no commercial trees within the project area, therefore, no plans will be made for cutting along the stream. All timber was removed during the dredging operations in this area.

c. Recreation

This area receives about 4,000 man days use annually for recreation. This estimate includes fishing, hunting, rock hounding, camping, picnicking and weekend prospecting.

d. Watershed

This drainage is an important water storage area for the North Fork of the John Day River drainage. Water from approximately 90,000 acres drains into this drainage.

e. Mineral Resources

Nearly all of the project area has been dredged for mineral. There appears to be little mineral value left. There are no acting mining claims in the area.

4. Coordination With Management Cooperators

a. Oregon State Game Commission

All work in this area will be coordinated with this Commission in order to obtain suggestions from and to inform them on plans.

b. Branch of Predator and Rodent Control, Fish and Wildlife Service.

This agency will be contacted for control of any predators within the project area if there is a specific need.

c. Pacific Northwest Range and Wildlife Experiment Station, La Grande, Oregon.

This office will be informed of all rehabilitation work concerning range improvement. They will be contacted for suggestions and guidelines for establishment of browse species and the seeding of range grasses.

d. Grant County Extension Agent, Canyon City, Oregon

Contacts will be made with this office to obtain suggestions from and to inform them of plans for control of noxious weeds in the project area.

e. Oregon Fish Commission

Contacts will be made with this commission to inform them of plans for improvement of the anadromous fish habitat in the project area.

f. Baker, Ranger District Ranger, Wallowa-Whitman National Forest

The District Ranger will be informed of the rehabilitation plans for this area for coordination of plans and work in this drainage.

5. History of Management

All of this area was originally part of the Whitman National Forest. All but 6 miles of the project area was transferred to the Umatilla National Forest by executive order in 1947. It is now the extreme east side of the Dale Ranger District, which is the southern most District of the Umatilla National Forest. Gold was discovered in the Granite Creek area in 1862. The mines were active until about 1910. The first mines were placer mines. Later hard rock mining became active. Several million dollars was taken from the area in the form of gold, silver and related minerals. The area was extremely hard to work, therefore, Chinese labor was brought in. Some of the better known mines are the Ben Harrison, Red Boy, Independence and the Continental. Dredge work began in this area during the 1920's and continued into the 1950's. Dredging of the streams has destroyed most of the anadromous fish spawning areas.

May 2, 1961

The Oregon State Game Commission and the U.S. Department of Agriculture Forest Service, Umatilla National Forest, entered into a memorandum of understanding for the purpose to develop and improve and examine spawning areas on certain parts of Clear Creek, Grant County, Oregon. The Forest Service agreed to provide the land, the State Game Commission agreed to do the necessary work consistent with available funds. This included lands located in sections 2, 10, 11, 14, 15, 22 and 23 all in T. 9 S., R. 35 E., W.M.

February 19, 1962

Memorandum from Al Oard to the Forest Supervisor. On June 13, 1961 a functional supervision and training trip was made on the Dale District. The primary purpose of this trip was to review fishing habitat at Olive Lake and Granite Creek.

April 2, 1962

Letter to the Dale District Ranger from Jim Hewkin, Oregon State Game Commission, fishery biologist, with report on the habitat improvement project on Clear Creek. The work had been completed on 3.37 miles of stream channel. An estimated 13,158 cubic yards of gravel was used on 47 plots involving 1,772 lineal yards of stream channel. The total cost of the work was \$1,470, which figures to approximately .11 per cubic yard of gravel moved for spawning purposes and stream improvement.

November 27, 1963

Federal register on November 27, 1963 – Volume 28, Page 12622, Grant Withdrawal for Forest Service recreational areas – Clear Creek and Granite Creek Anadromous fish spawning (habitat improvement) areas; 828.25 acres.

A request was submitted for withdrawal for mineral entry of Forest Service lands on Granite Creek from the mouth up to the Clear Creek project. Total acres of the withdrawal request are 740.99 acres.

6. Plan Revision

This plan will be brought up to date by January 30th each year.

II. Habitat Improvement Plan

1. F.Y. 1966

T. 8 S., R. 35 E., Sections 19, 28, 29 and 30
T. 8 S., R. 34 E., Section 24

	<u>Priority By Year</u>
a. Complete the proposed withdrawal from mineral entry. <u>T. 9 S., R. 35 E., Section 13, 21, 22, 23, 24, 28 and 29</u>	1
b. Request withdrawal from mineral entry <u>T. 9 S., R. 35 E., Section 14</u>	2
c. Lay out the work area as described for F.Y. 1966 and 1967, contracting cost and C.O.R. cost.	3
d. Construction of a main stream channel to prevent the water from spreading out under the tailing piles. This will require approximately 1 mile of work. Refer to picture numbers 3 and 8 in the Appendix.	4
e. Construct 4 complete fish habitat areas for anadromous fish reproduction. Each area will include a 200 to 300 foot section on a ½ of 1 percent grade (spawning area), a 500 to 700 foot section up stream on a +1 percent grade (feeding area) and a 50 to 100 foot pool at least 3 feet deep (resting area). Refer to diagram numbers 1 and 2 in the Appendix.	5
f. Place spawning gravel in the spawning areas. Stockpile spawning gravel along the edge of the feeding areas. Approximately 5,000 cu.yds. will be moved.	6
g. Construct weirs at the outlet side of each pool.	7
h. Construct rock-diversions at turns in the creek where raw banks are eroding during high water. Use material from dredge piles.	8
i. Level the tailing piles 50 feet on each side of the stream and plant willows along the stream bank. Approximately 18,000 cu.yds. will be moved. This section is approximately 1.25 miles long.	9
j. Control the beaver in the Clear Creek drainage.	10
k. Level the remaining tailing piles along this section of the stream. Approximately 150,000 cu.yds. of material will be moved. Refer to pictures 1 through 6 in the Appendix.	11
l. Plant 10 acres of willow along the stream in designated areas.	12

m. Seed the area to western larch, Engelmann spruce, ponderosa pine and mixtures of grass seed with a range land drill. Fertilize the area using 30 lbs. of effective nitrogen per acre. Approximately 120 acres will be treated. Control Canada thistle. Refer to picture number 17 in the Appendix.	13
n. Construct and install two I&E signs, tells the story of the work in this year.	14
2. <u>F.Y. 1967</u>	
a. Maintenance of all improvements on Granite Creek and Clear Creek.	1
b. Acquire private land for protection on the fish habitat in T. 8 S., R. 35 E., Sections 26, 27, 28, 34, 35, and 36 and T. 9 S., R. 35 E., Sections 1, 2, 10, 11, 21, 22, 23, 24 and 26.	2
 <u>T. 9 S., R. 35 E.,</u> <u>Sections 10, 11 and 15</u> 	
c. Lay out the project area for F.Y. 1968, contracting cost and C.O.R. cost.	3
d. Move replacement spawning gravel into the spawning areas. Approximately 5,000 cu.yds. will be moved.	4
e. Level the tailing piles. Approximately 185,000 cu.yds. of material will be moved.	5
f. Control of beaver in the Clear Creek drainage.	6
g. Planting of willows along the stream bank. Approximately 10 acres.	7
h. Seed the area to western larch, Engelmann spruce, ponderosa pine and mixtures of grass seed with a range land drill. Fertilize the area using 30 lbs. of effective nitrogen per acre. Approximately 100 acres will be treated. Control Canada thistle.	8
i. Place rock-diversions at turns in the creek where raw banks are eroding during high water.	9
3. <u>F.Y. 1968</u>	
 <u>T. 9 S., R. 35 E., Section 2</u> 	
a. Layout the project area for F.Y. 1969, contracting cost and C.O.R. cost.	1
b. Place spawning gravel in the spawning areas. Approximately 5,000 cu.yds. will be moved.	2
c. Level the tailing piles along this section of the drainage. Approximately 70,000 cu.yds. of material will be moved. Refer to pictures 7 and 8 in the Appendix.	3

- d. Control of beaver in the Clear Creek drainage. 4
- e. Planting of willows along the stream bank. Approximately 5 acres will be planted. 5
- f. Seed the area to western larch, Engelmann spruce, ponderosa pine and mixtures of grass with a range land drill. Fertilize the area using 30 lbs. of effective nitrogen per acre. Approximately 150 acres will be treated. Control Canada thistle. 6
- g. Construct rock-diversions at turns in the creek where raw banks are eroding during high water. 7
- h. Construct a 5 acre fish pond by joining three dredge holes and enlarging. Refer to picture number 9 in the Appendix. 8

4. F.Y. 1969

T. 8 S., R. 35 E.,
Sections 28, 29 and 30

- a. Layout the project area for F.Y. 1970, contracting cost and C.O.R. cost. 1
- b. Level the tailing piles and move the surface material back on to the areas. The surface material was removed prior to dredging this area and presently is piled adjacent to the areas. Approximately 100,000 cu.yds. of material will be moved. 2
- c. Plant willows along the stream bank. Approximately 5 acres will be planted. 3
- d. Seed the area to western larch, Engelmann spruce, ponderosa pine and mixtures of grass seed with a range land drill. Fertilize the area using 30 lbs. of effective nitrogen per acre. Approximately 50 acres will be treated. Control Canada thistle. 4

T. 9 S., R. 35 E.,
Sections 13, 23, 24 and 26

- e. Construct a main stream channel to prevent the water from spreading under the tailing piles. Work is needed on approximately 2 miles. 5
- f. Construct weirs at the outlet of 8 pools. 6
- g. Construct rock-diversions at the turns in the creek where raw banks are eroding during high water. Approximately 40 are needed. 7
- h. Level tailing piles along this section of the drainage. Approximately 308,000 cu.yds. of material will need to be moved. 2
- i. Plant willows along the stream bank. Approximately 20 acres. 3
- j. Control of beaver in the Clear Creek drainage. 8

- k. Seed the area to western larch, Engelmann spruce, ponderosa pine and grass mixtures. Fertilize the area using 30 lbs. of available nitrogen per acre. Approximately 400 acres will be treated. Control Canada thistle. 4
5. F.Y. 1970
- a. Maintenance of all improvements on Granite Creek and Clear Creek and C.O.R. cost 1
- T. 9 S., R. 35 E., Section 1
T. 9 S., R. 35 ½ E., Section R
- b. Level tailing piles along Granite Creek and Bull Run Creek within these sections on Forest Service land. Approximately 370,000 cu.yds. of material will be moved. 2
- c. Plant willows along the stream bank. Approximately 50 acres will be planted. 3
- d. Seed the area to western larch, Engelmann spruce, ponderosa pine and mixtures of grass. Fertilize with 30 lbs. of available nitrogen per acre. Approximately 440 acres will be seeded. Control Canada thistle. 4
- e. Construct 6 weirs for pools as needed. 5
- f. Develop a main channel in Bull Run Creek through the dike at the mouth. 6
6. F.Y. 1971
- a. Maintenance of all improvements on Granite Creek and Clear Creek
- b. Determine the needs for future work.

III. Summary of Habitat Improvement Plan

<u>Improvement Work</u>	<u>Total Units Treated</u>	<u>Total Cost</u>
1. Mineral withdrawal		250
2. Land acquisition		1,000
3. Construction of stream channel	4 miles	2,000
4. Construct complete fish habitat areas	18 miles	1,200
5. Place spawning gravel	15,000 cu. Yds.	3,000
6. Smooth out placer tailing piles	1,201,000	120,100
7. Construct rock diversions	80 each	1,600
8. Construct weirs	18 each	480
9. Revegetate grass and trees	1,210 acres	12,100
10. Install I&E signs	2	200
11. Maintenance of improvements		1,400
12. Plant willows	100	4,000
13. Acquire private land	Approx. 900 acres	1,000
14. Construct fish pond	5 acres	5,000
15. Control beaver		500
16. Survey future needs		1,000
17. Layout and C.O.R. cost		<u>2,000</u>
Total Project Cost		156,830

IV. FINANCIAL PLAN

F. Y. PLANNED WORK	PRIORITY	UNIT	COST PER UNIT	NO. UNITS	TOTAL COST	P&M COST				OTHER P&M	OTHER *FUNDS	REMARKS
						031	052	080	092			
1966												
A. Complete proposed withdrawal (refer to item II.1)	1				50					50		Land Mgt. (061)
B. Request withdrawal (refer to item II.1)	2				200					200		Land Mgt. (061)
C. Layout the planned work for F.Y. 1966 and 1967.	3				1,000	200	200	100	500			
D. Construct stream channel	4	mile	400	1	500						500	
E. Construct habitat areas	5	ea.	300	4	1,200						1,200	
F. Placing spawning gravel	6	cu.yd.	0.20	5,000	1,000						1,000	
G. Construct weirs	7	ea.	75.00	4	200						200	
H. Construct rock diversions	8	ea.	150.00	20	400				400			To reduce erosion
I. Level tailing piles along stream	9	cu.yd.	.20	1,800	1,800			1,000	800			To protect fish habitat
J. Control beaver (will not do)	10				200						200	Request State Game Commission help.
K. Level remaining tailing piles	11	cu.yd.	0.20	150,000	15,000	2,000	2,000	1,000	10,000			
L. Plant willows along stream	12	acres	40.00	10	400			400				
M. Revegetate & control noxious weeds	13	acres	75.00	120	1,200	300		400			500	Fertilize and seed to grass and trees with range land drill
N. Construct & install signs (I&E)	14	ea.	100.00	2	200			200				
Total					23,350	2,500	2,200	3,100	11,700	250	3,600	
1967												
A. Maintenance of improvements	1				200			200				
B. Acquire private land	2	acres	1		1,000					1,000		Planning and negotiating for land exchange (061)
C. Lay out 1968 project area and contracting costs	3				800	100	100		600			
D. move replacement gravel into spawning areas.	4	cu.yds.	0.20	5,000	1,000						1,000	
E. Level tailing piles	5	cu.yds.	0.10	185,000	18,500	2,500	2,000	1,000	13,000			
F. Control beaver	6				100						100	Request State Game

F. Y. PLANNED WORK	PRIORITY	UNIT	COST PER UNIT	NO. UNITS	TOTAL COST	P&M COST				OTHER P&M	OTHER *FUNDS	REMARKS
						031	052	080	092			
												Commission help.
G. Plant willows along stream	7		40.00	10	400						400	
H. Revegetate & control noxious weeds	8	acres	10.00	100	1,000	300	300	200			200	Fertilize & seed to grass & trees with range land drill.
I. Construct rock diversions	9	ea.	20.00	10	200				200			
Total					23,200	2,900	2,400	1,400	13,800	1,000	1,700	
1968												
A. Layout the 1969 project area and contracting cost	1				800	100	100		600			
B. Place spawning gravel in spawning areas.	2	cu.yds.	0.20	5,000	1,000						1,000	
C. Level tailing piles	3	cu.yds.	0.10	70,000	7,000	1,000	1,000	1,000	4,000			
D. Control beaver	4				100						100	Request State Game Commission help.
E. Plant willows along stream	5	acre	40.00	5	200						200	
F. Revegetate & control noxious weeds	6	acre	10.00	150	1,500	300	300	400			500	Fertilize & seed to grass & trees with range land drill.
G. Construct rock diversions	7	ea.	10.00	10	200				200			
H. Construct a 5 acre fish pond	8	ea.	5,000.00	1	5,000						5,000	Request State funds
Total					15,800	1,400	1,400	1,400	4,800		6,800	
1969												
A. Layout the 1970 project area and contracting cost	1				800	100	100		600			
B-H. Level tailing piles and replace surface material	2	cu.yd.	0.10	408,000	40,800	3,000	3,000	4,000	30,800			
C-I. Plant willows along stream	3	acre	40.00	25	1,000						1,000	
D-K. Revegetate & control noxious weeds.	4	acre	10.00	400	4,000	1,000	1,000	1,000			1,000	Fertilize & seed to grass & trees with range land drill
E. Construct main stream channel	5	mile	500.00	2	1,000				1,000			
F. Construct weirs	6	ea.	20.00	8	160						160	
G. Construct rock diversions	7	ea.	20.00	40	800				800			
J. Control beaver	8	ea.			100						100	Request State Game Commission help.
Total					48,660	4,100	4,100	5,000	33,200		2,260	
1970												
A. Maintenance of	1				1,000			400	600			

F. Y. PLANNED WORK	PRIORITY	UNIT	COST PER UNIT	NO. UNITS	TOTAL COST	P&M COST				OTHER P&M	OTHER *FUNDS	REMARKS
						031	052	080	092			
Improvements												
B. Level tailing piles	2	cu.yds.	0.10	370,000	37,000	2,000	2,000	3,000	30,000			
C. Plant willows along the stream	3	acre	40.00	50	2,000						2,000	
D. Revegetate & control noxious weeds	4	acre	10.00	440	4,400	1,200	1,200				2,000	
E. Construct weirs	5	ea.	20.00	6	120						120	
F. Develop main channel	6	ea.	500.00	1	500				500			At mouth of Bull Run Creek
Total					45,020	3,200	3,200	3,400	31,100		4,120	
1971												
A. Maintenance of improvements	1				400			200	200			
B. Determine future needs	2				1,000			500	500			
Total					1,400			700	700			

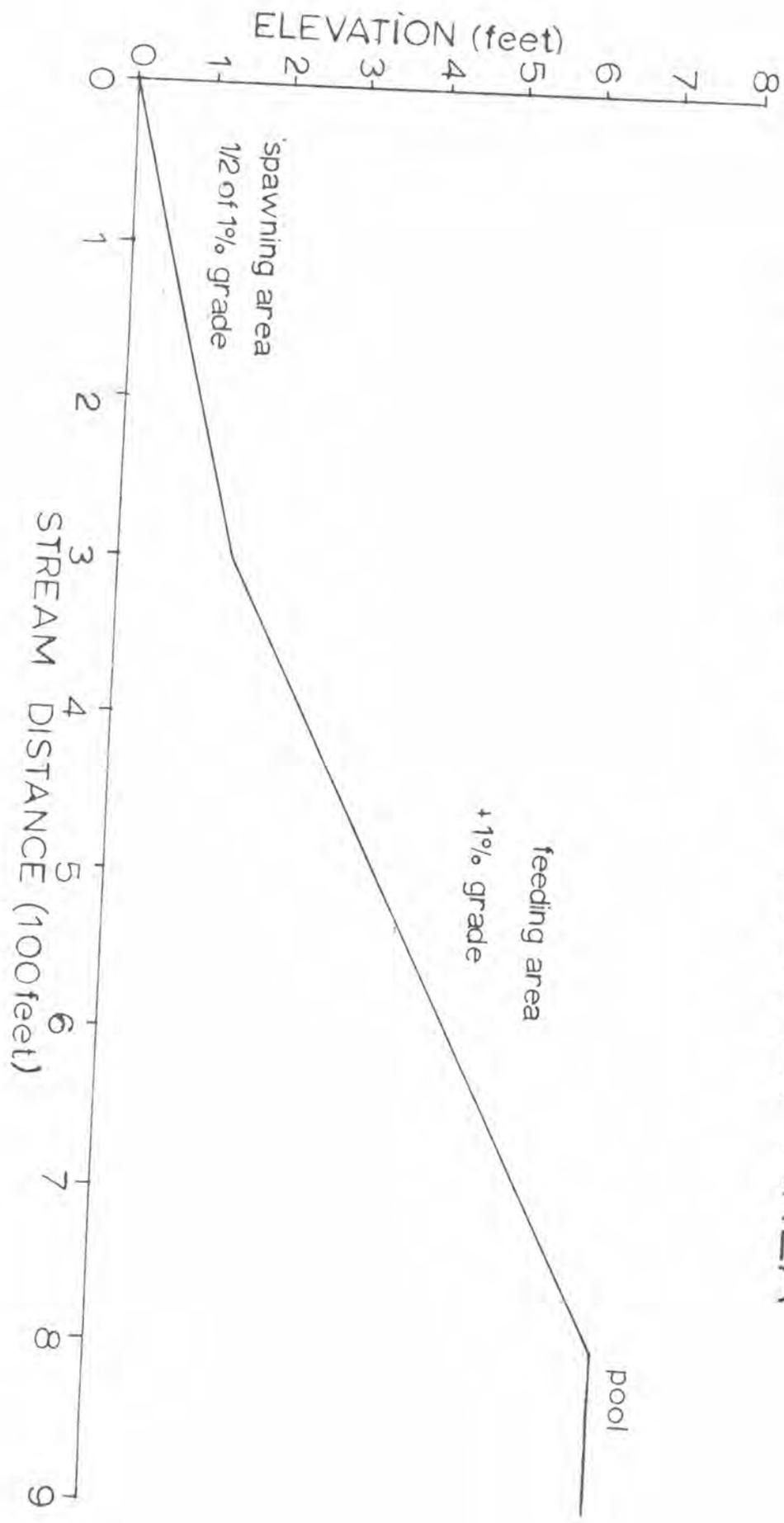
* Request Oregon State Game Commission Cooperative Funds.

APPENDIX

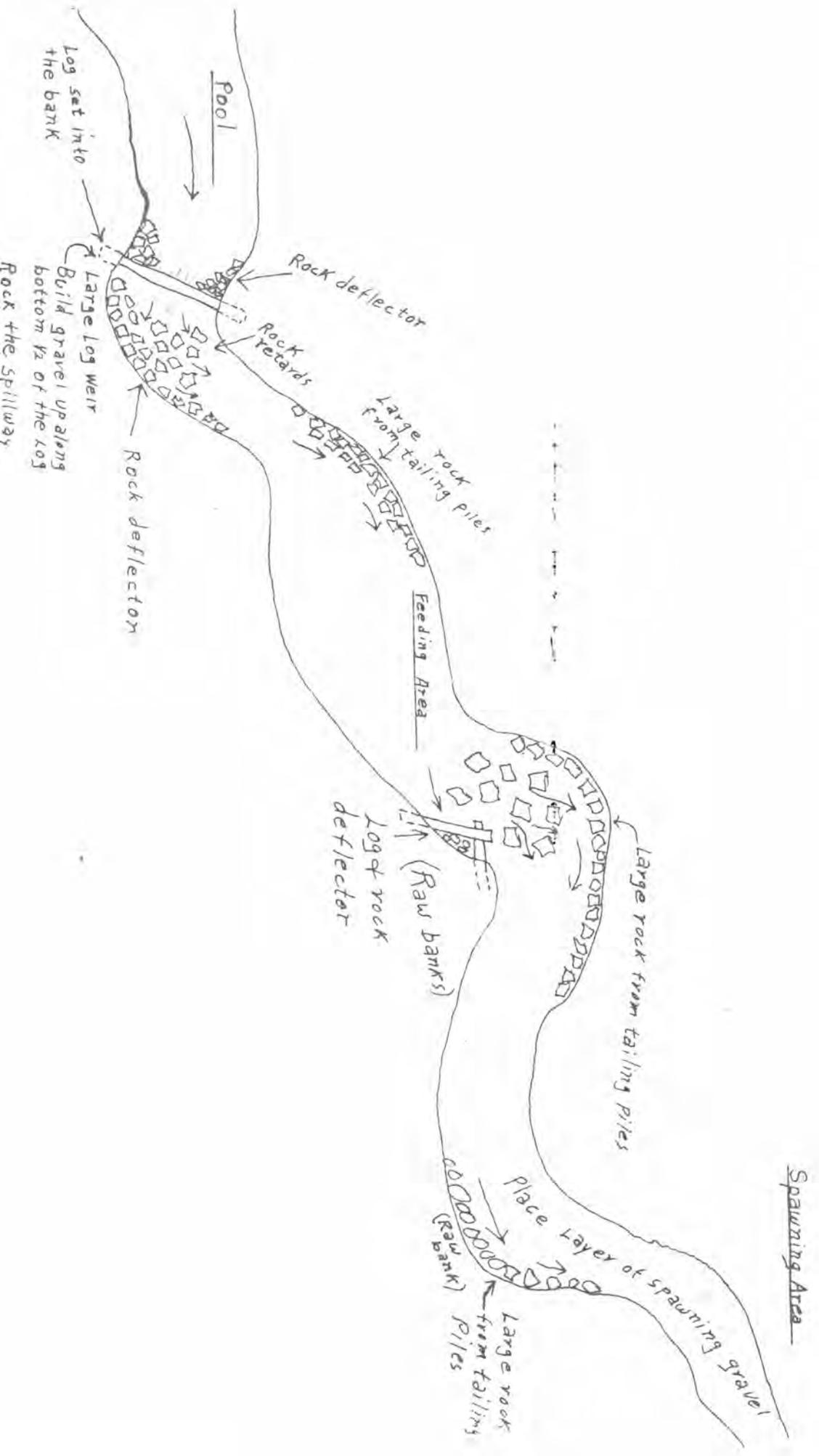
- A. Table 1. ANADROMOUS FISH HABITAT AREA
- B. Table 2. TECHNIQUES TO BE USED FOR STABILITATION OF THE STREAM
- C. Table 3. TYPICAL CROSS-SECTION OF DREDGE PILES
- D. PICTURES 1 thru 17
- E. VICINITY MAP
- F. PROJECT AREA MAPS

8 inch equals 1 miles

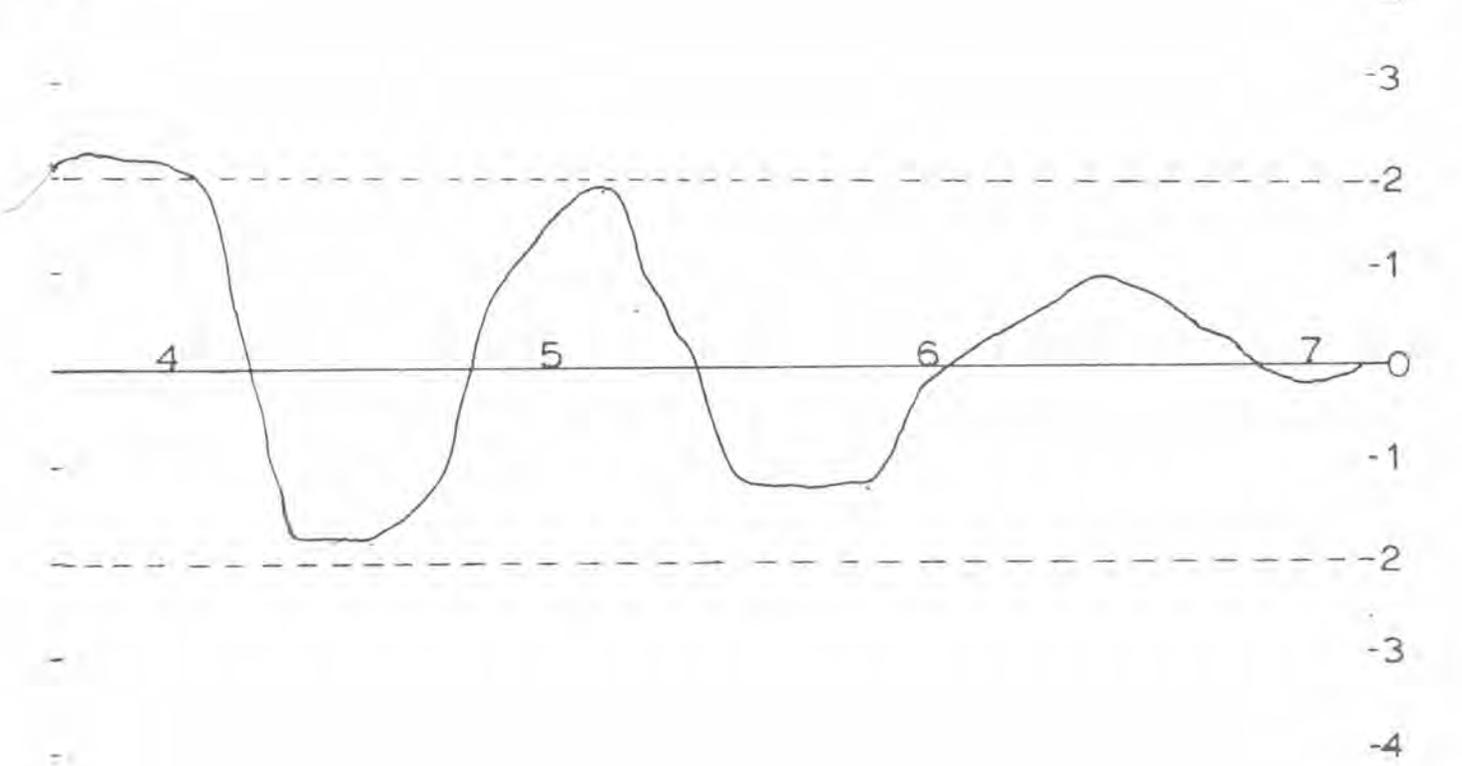
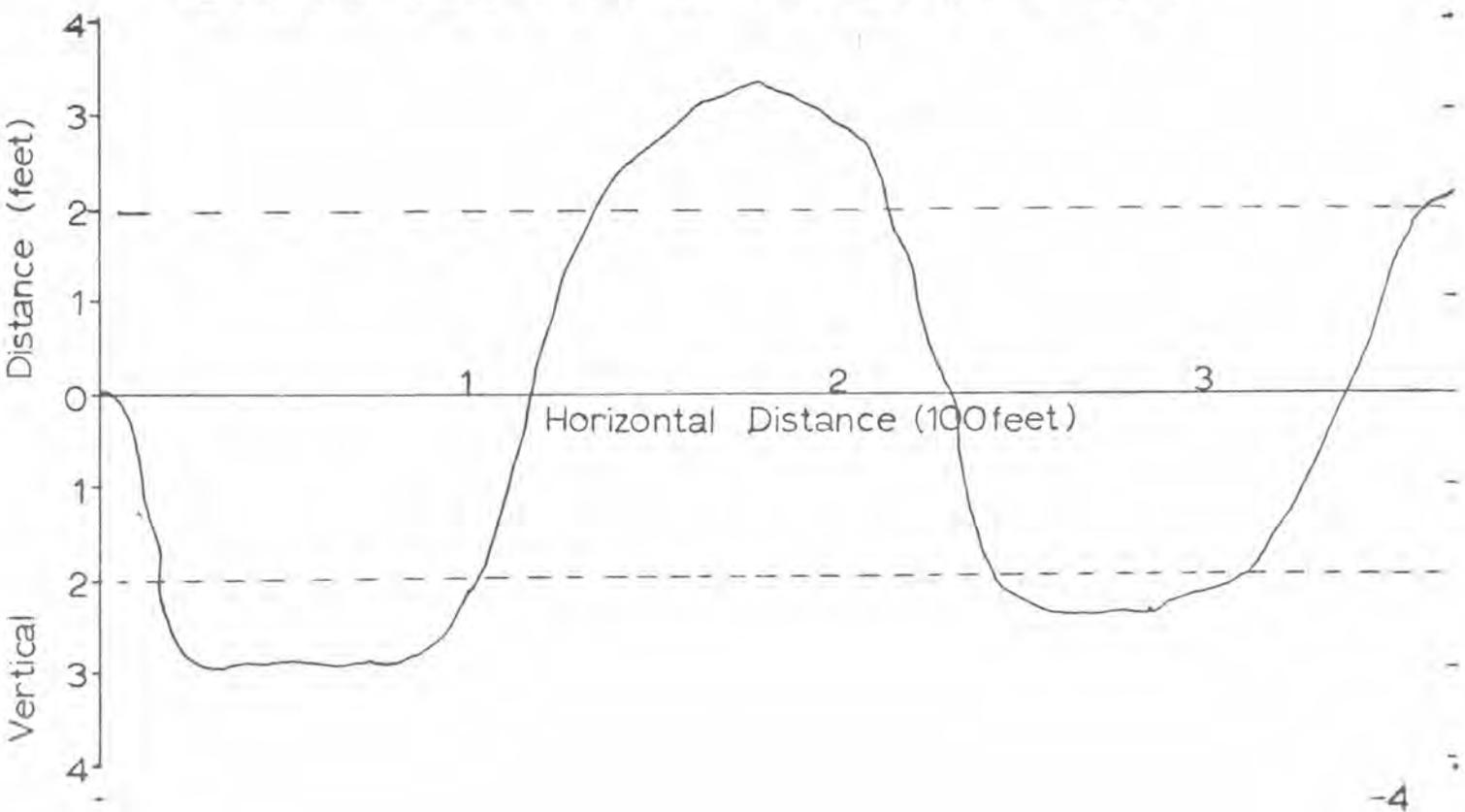
ANADROMOUS FISH HABITAT AREA



REHABILITATION OF ANADROMOUS FISH HABITAT AND WATERSHED RESOURCES TECHNIQUES TO BE USED



CROSS-SECTION OF DREDGE PILES



PICTURES OF THE GRANITE AND CLEAR CREEK DRAINAGE

Two Pictures
To each
Page

- (1) A dredge hole near the mouth of Olive Creek where a large amount of the stream goes under the tailing piles. This is a fish trap.

- (2) Same channel as No. 1 looking up stream - during high water.



- (3) Dredge hole with no inlet or outlet.

- (4) Upper part of Clear Creek in section 14, T. 9 S., R. 35 E.



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100
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(5) One of a series of ponds in Section 14, T.9S., R.35E. This picture was taken during high water.

(6) This pond has an inlet during high water but no outlet during low water. This picture was taken during low water. A two foot steelhead was trapped.



•
101
•

(7) A typical dredge hole that should be filled.



•
102
•

(8) A typical dredge hole. Water seeps under the tailing piles into the holes. This indicates the level of the water table.



100

(9) This shows two of the three ponds planned for expansion for a 5 acre fish pond. *that will be filled by leveling tailing piles*

(10) A typical Salmon spawning area rehabilitated by the Oregon State Game Commission in 1961.



100



100

(11) Mouth of Bull Run Creek during low water.

(12) Pond at the mouth of Bull Run Creek during low water. Water escapes under the dredge tailings.

MAY 63



(13) Mouth of Bull Run Creek during high water. *det*



100

(14) Second pond above the mouth of Bull Run Creek. City of Granite in the background.



OCT

(15) Young tree growing in a favorable spot in the dredge piles.



100

(16) Western larch and Lodgepole pine seedlings growing on a site leveled during the dredge operations.

JAN 65



(17) Canada thistle infestation on
Clear Creek.



Dredged area near Bates, Oregon that
has been leveled. 7/66

E

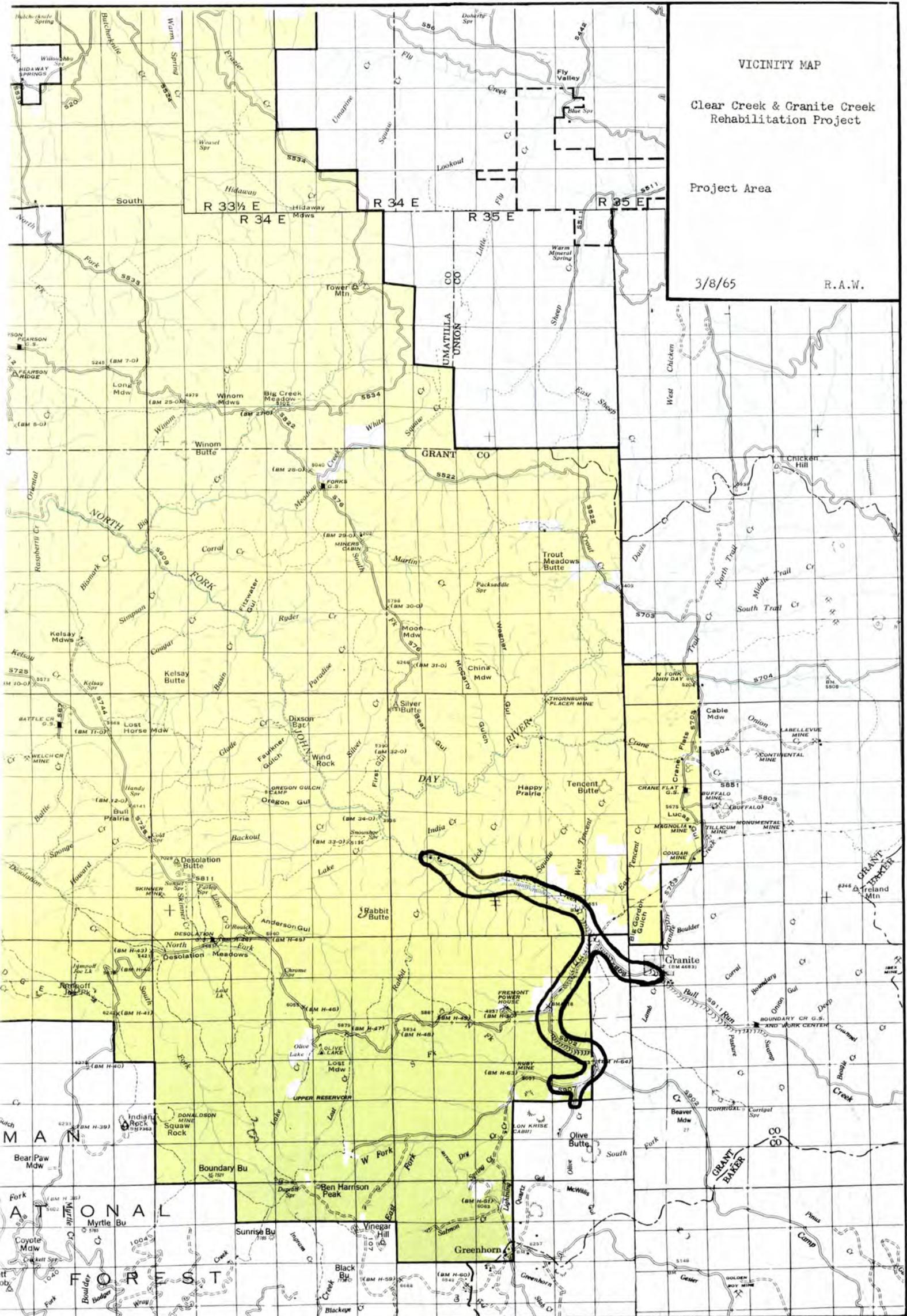
VICINITY MAP

Clear Creek & Granite Creek Rehabilitation Project

Project Area

3/8/65

R.A.W.



R 33 E

R 34 E

R 35 E

R 35 1/2 E

T 5 S

S 50 99955

T 7 S

GRANITE CREEK

T.8S., R35E.

LEGEND



Dredge piles
Withdrawal area
Private land
Water pools
Photo point

R.A.W

1/1/65

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GRANITE CREEK

T.8S., R35E.

LEGEND

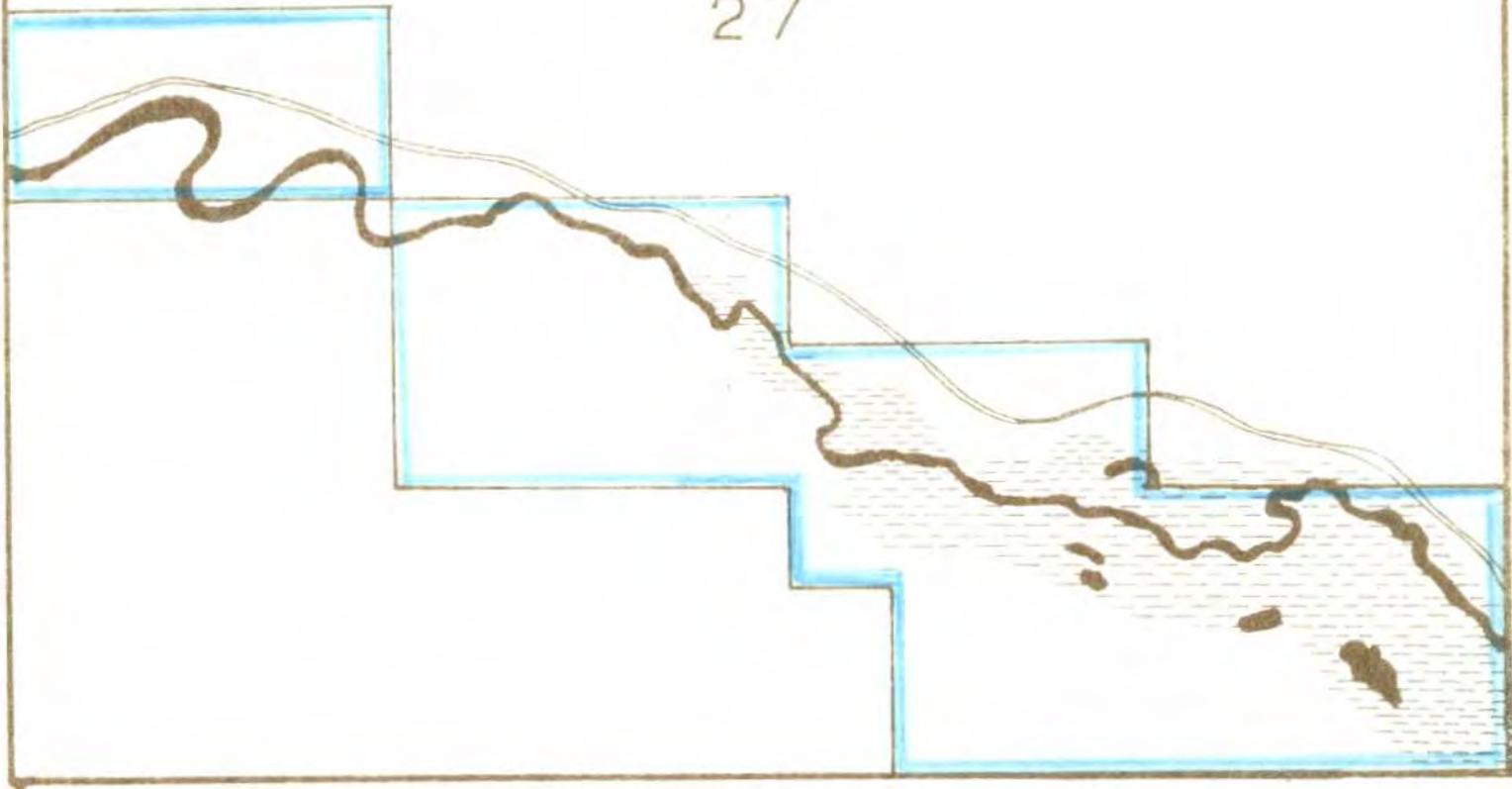


- Dredge piles
- Withdrawal area
- Private land
- Water pools
- Photo point

R.A.W

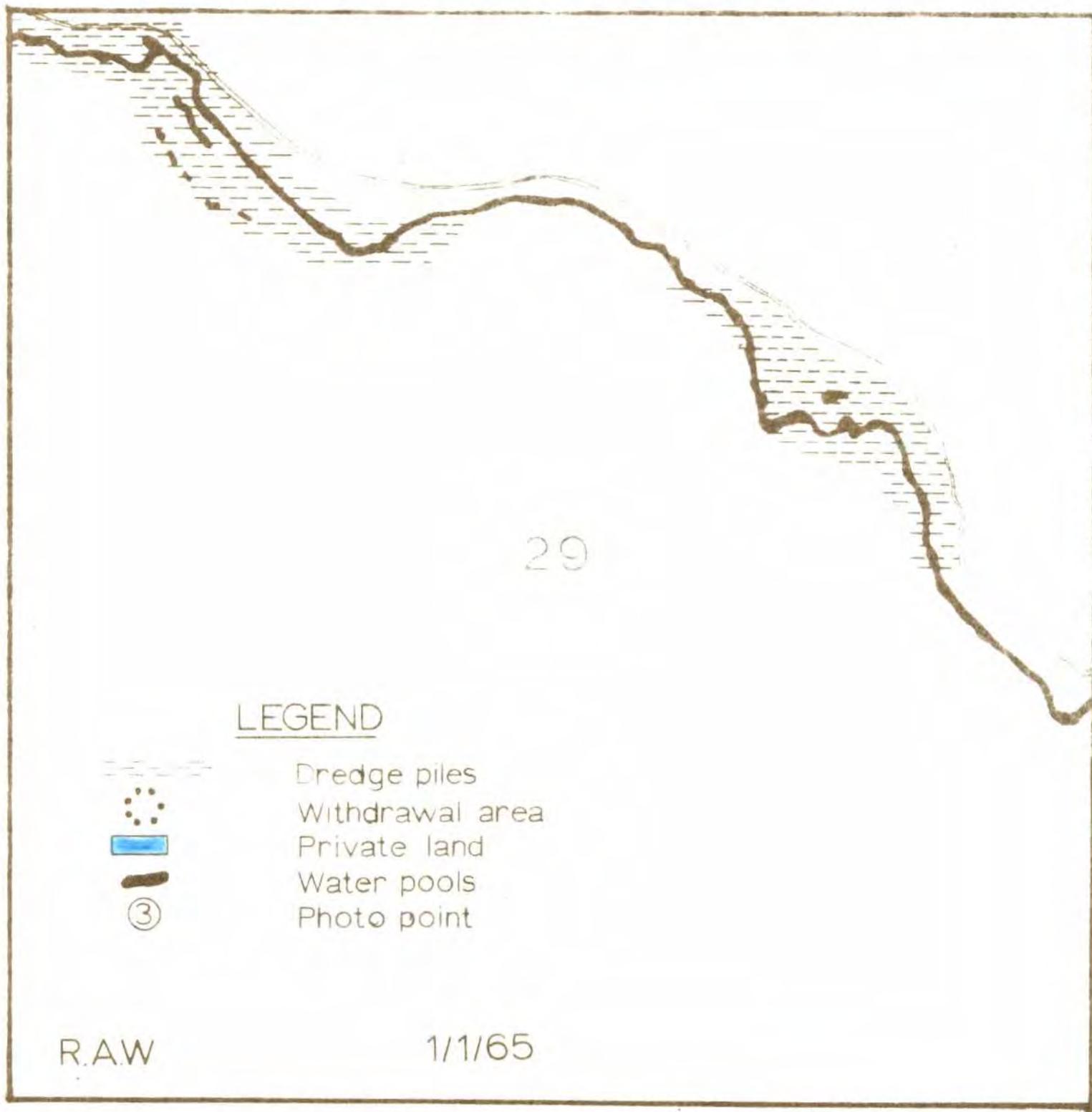
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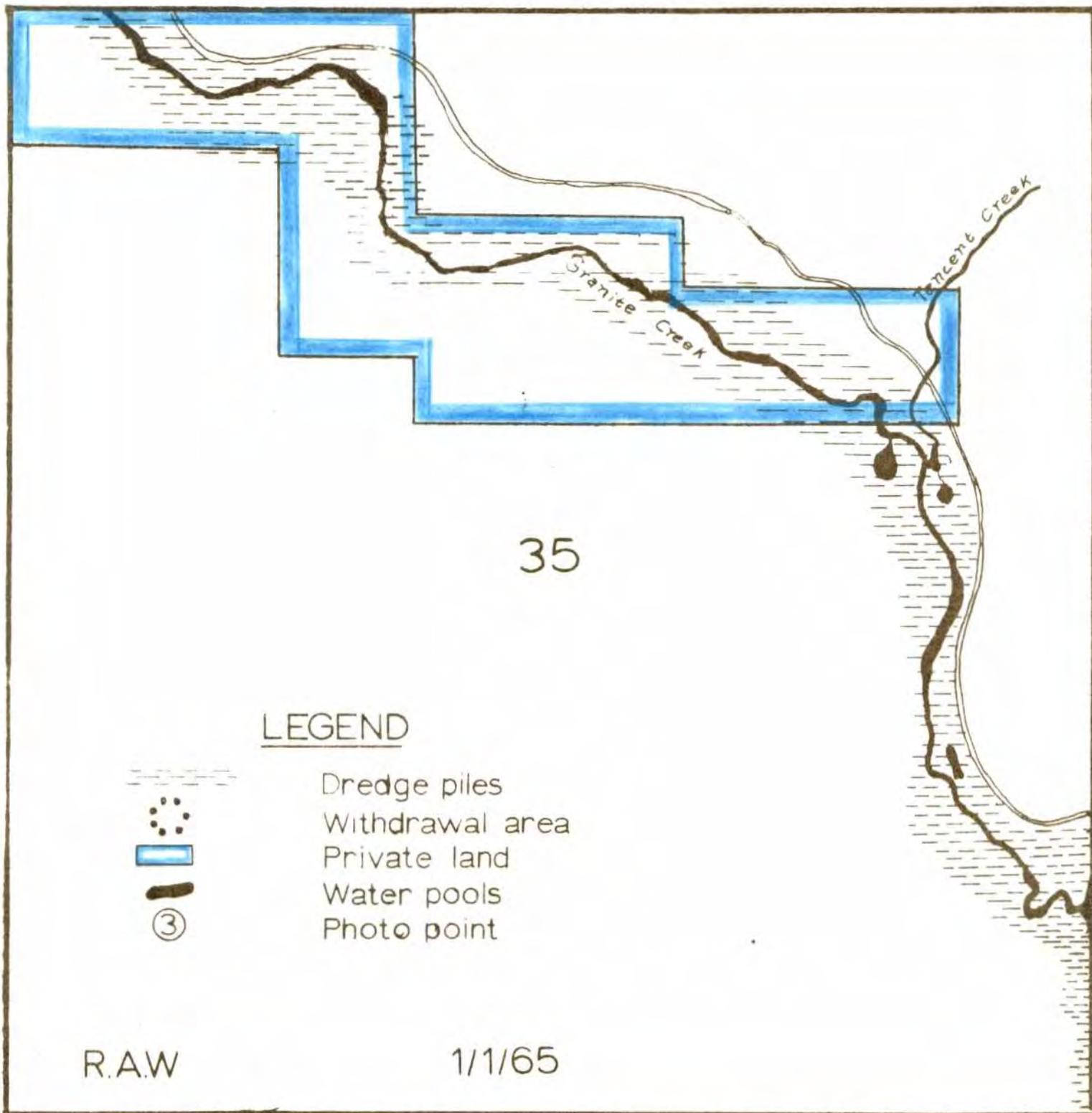
GRANITE CREEK

T.8S.,R35E.



GRANITE CREEK

T.8S., R35E.



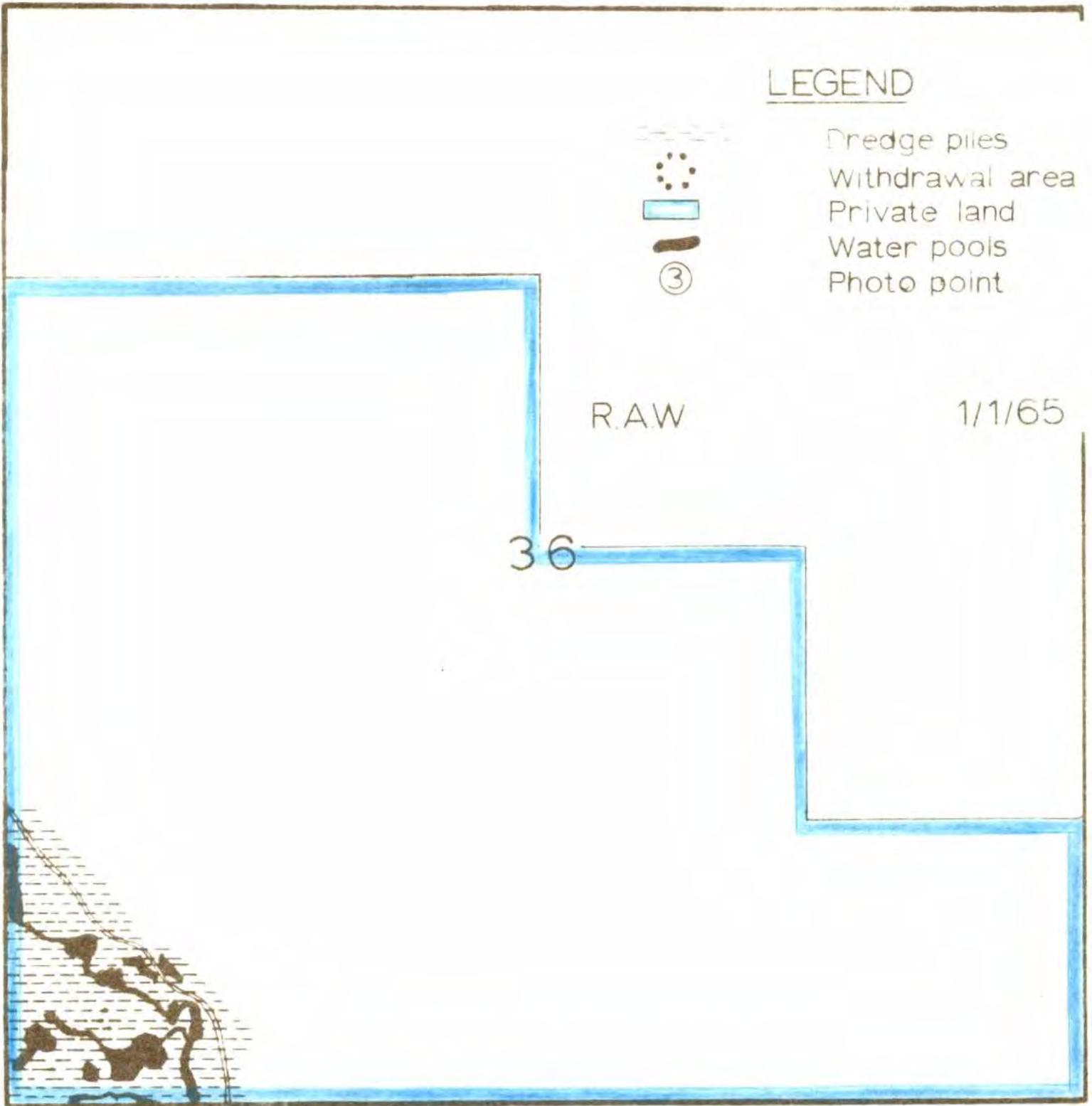
GRANITE CREEK

T.8S.,R35E.

LEGEND



- Dredge piles
- Withdrawal area
- Private land
- Water pools
- Photo point



R.A.W

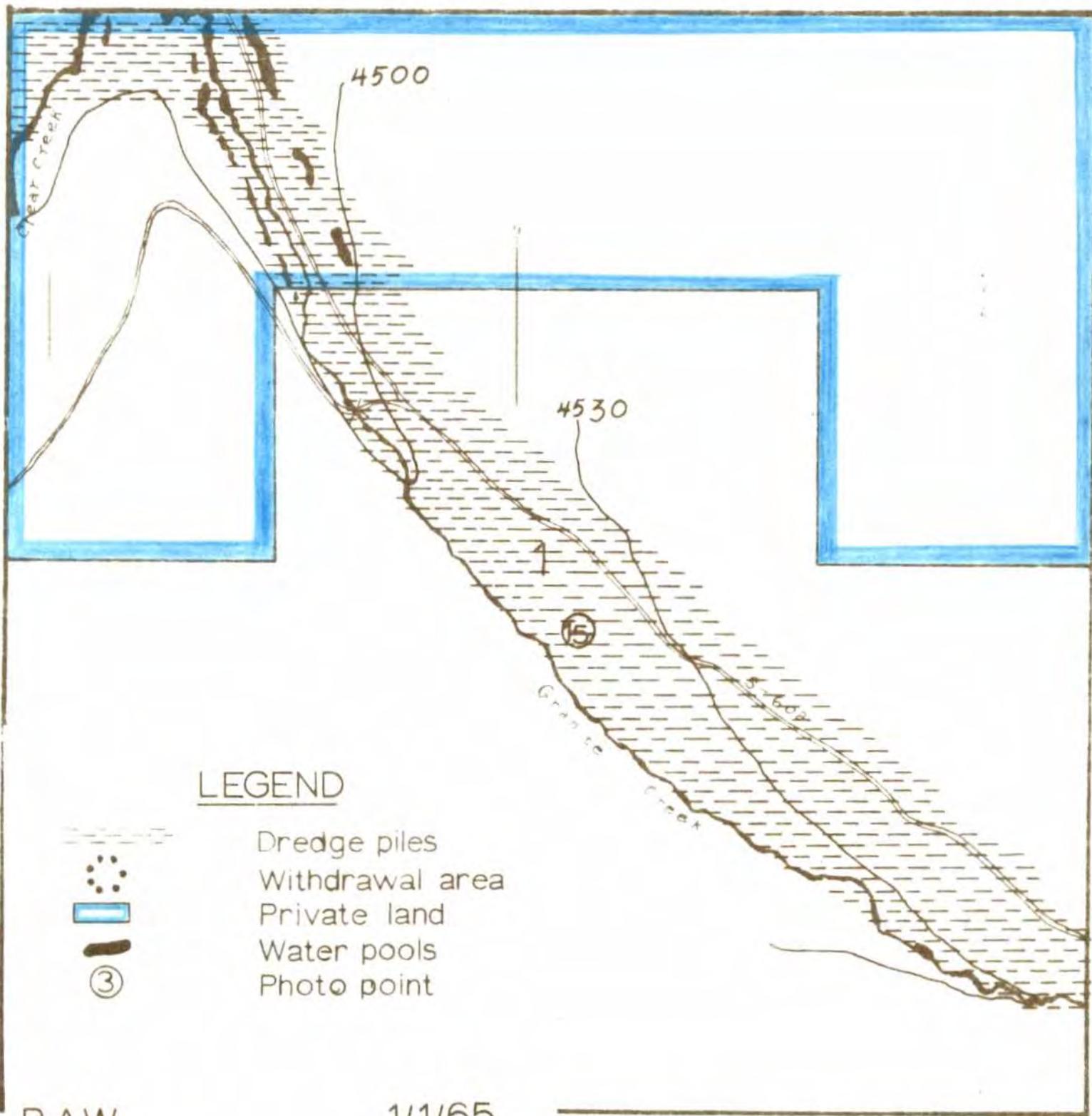
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③

GRANITE CREEK

T.9S., R.35E.



LEGEND



- Dredge piles
- Withdrawal area
- Private land
- Water pools
- Photo point

CLEAR CREEK

T.9S., R.35E.

LEGEND



Dredge piles



Withdrawal area



Private land



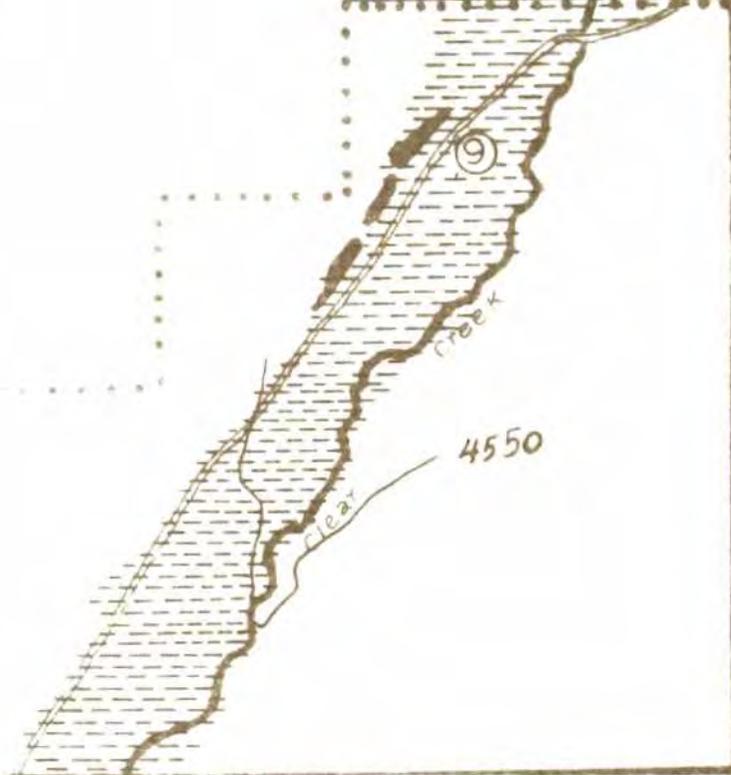
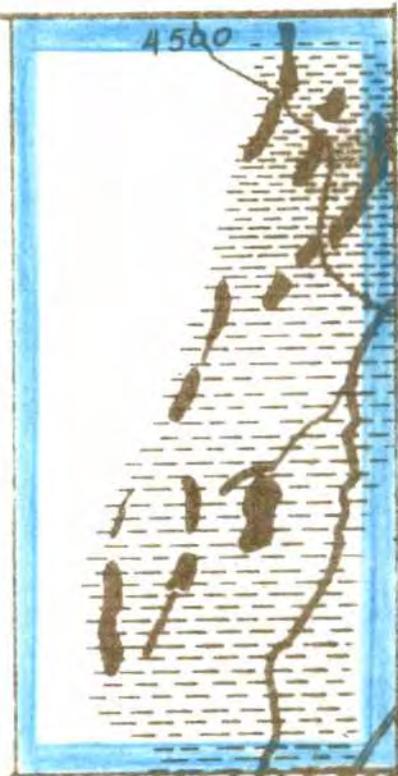
Water pools



Photo point

RAW

1/1/65



CLEAR CREEK

T.9S., R.35E.

LEGEND



Dredge piles

Withdrawal area

Private land

Water pools

Photo point

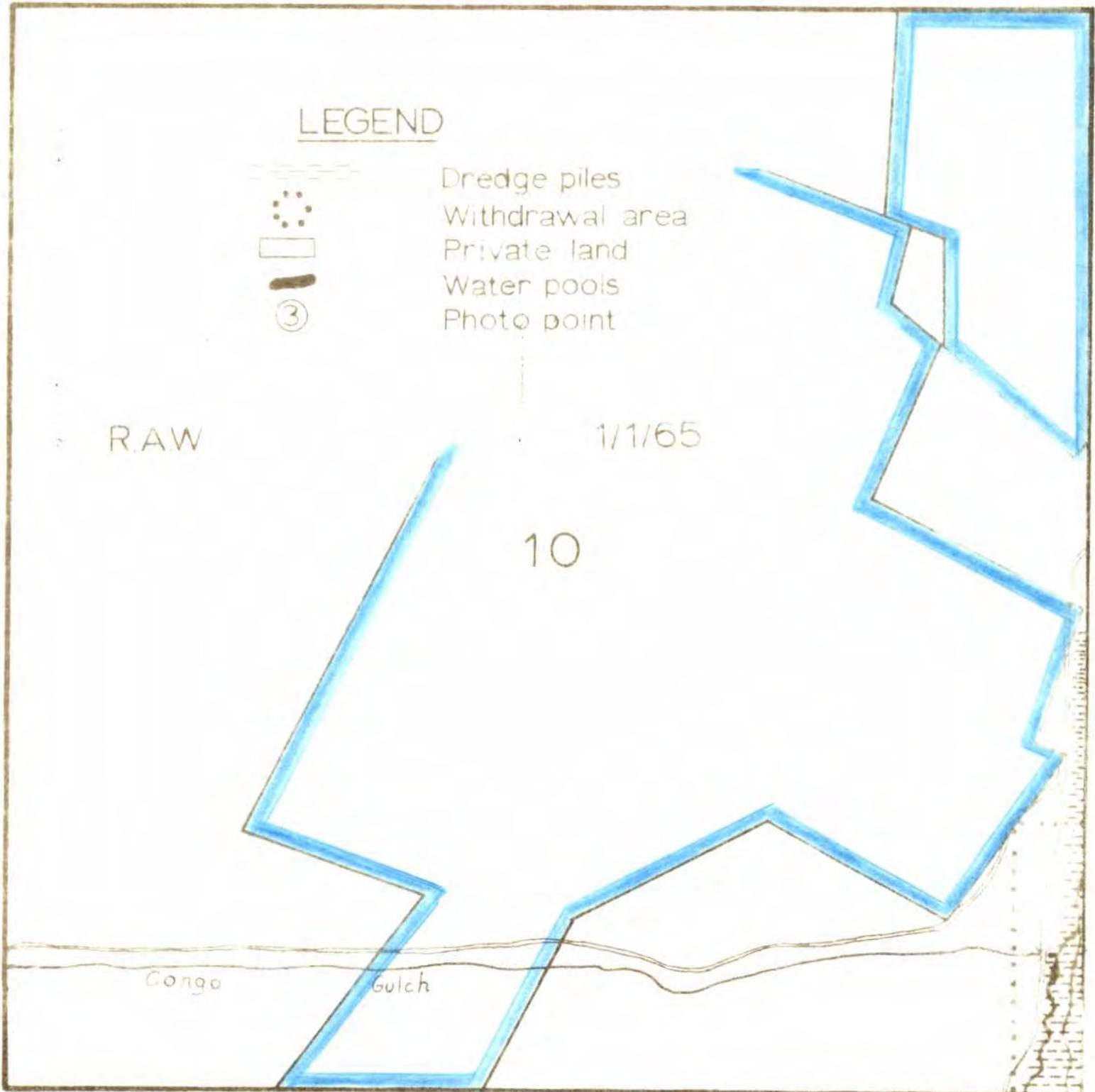
RAW

1/1/65

10

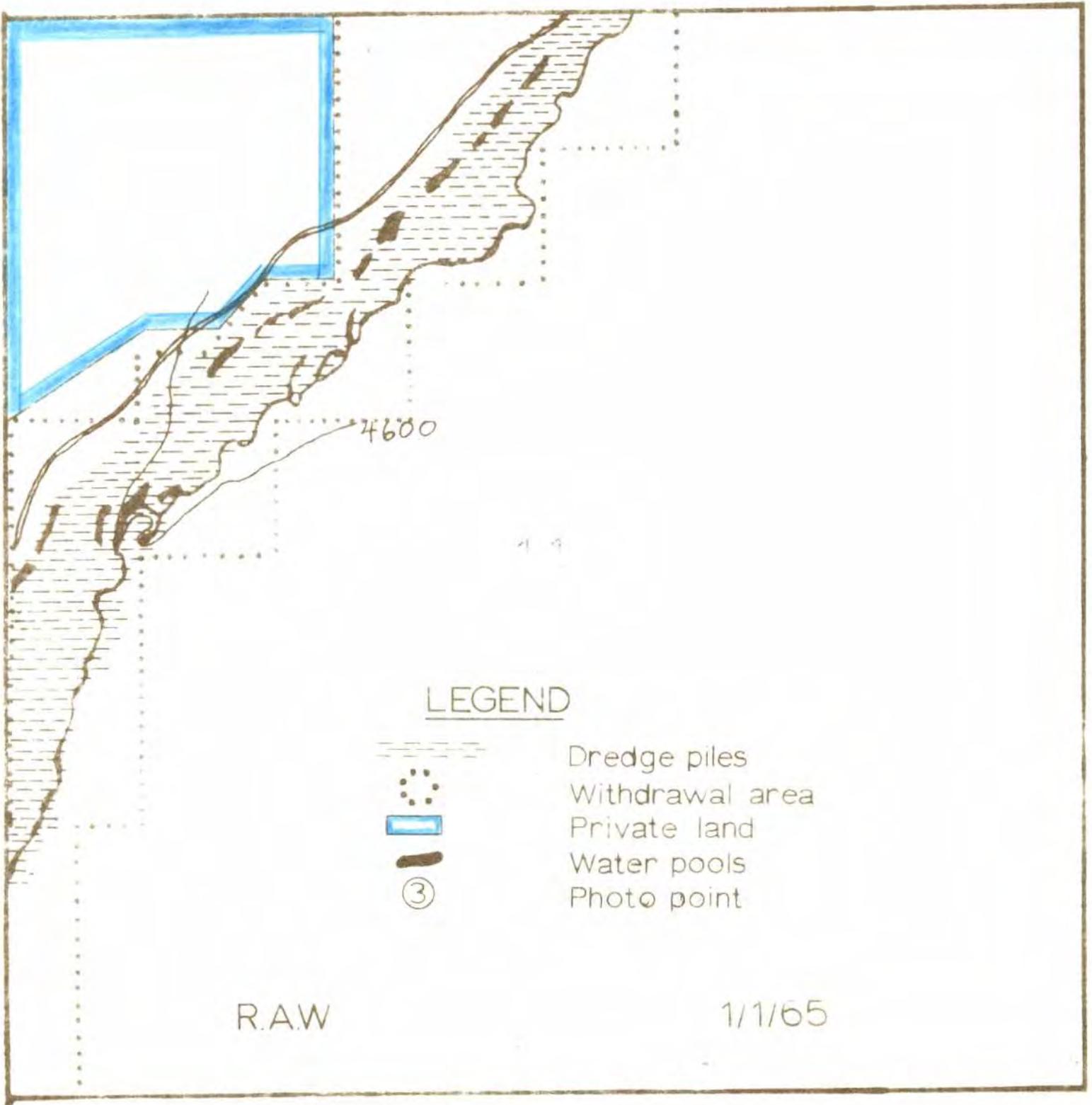
Congo

Gulch



CLEAR CREEK

T.9S., R.35E.



LEGEND



Dredge piles



Withdrawal area



Private land



Water pools



Photo point

R.A.W

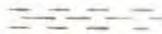
1/1/65

CLEAR CREEK

T.9S., R.35E.

13

LEGEND



Dredge piles

Withdrawal area

Private land

Water pools

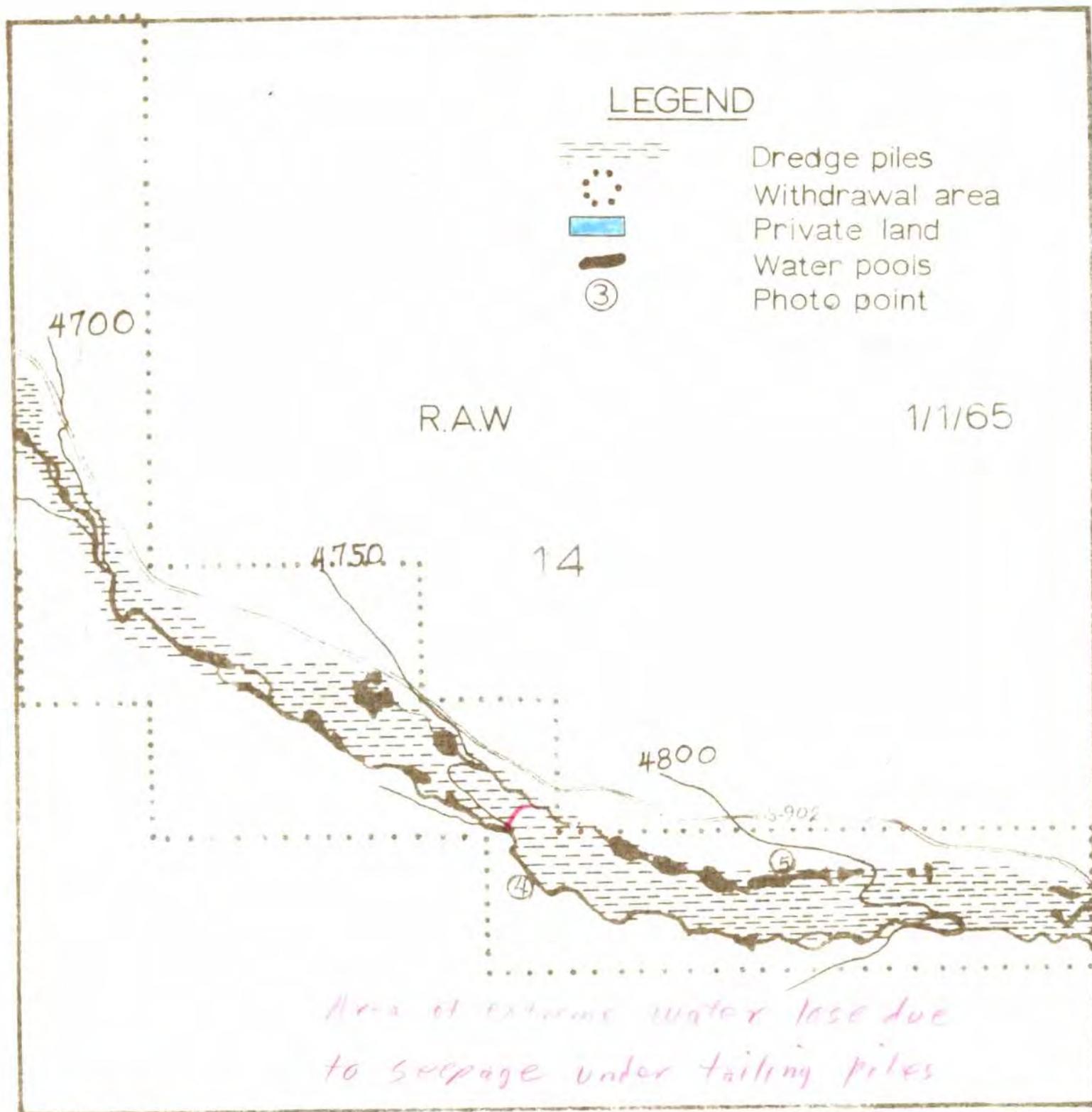
Photo point

R.A.W

1/1/65

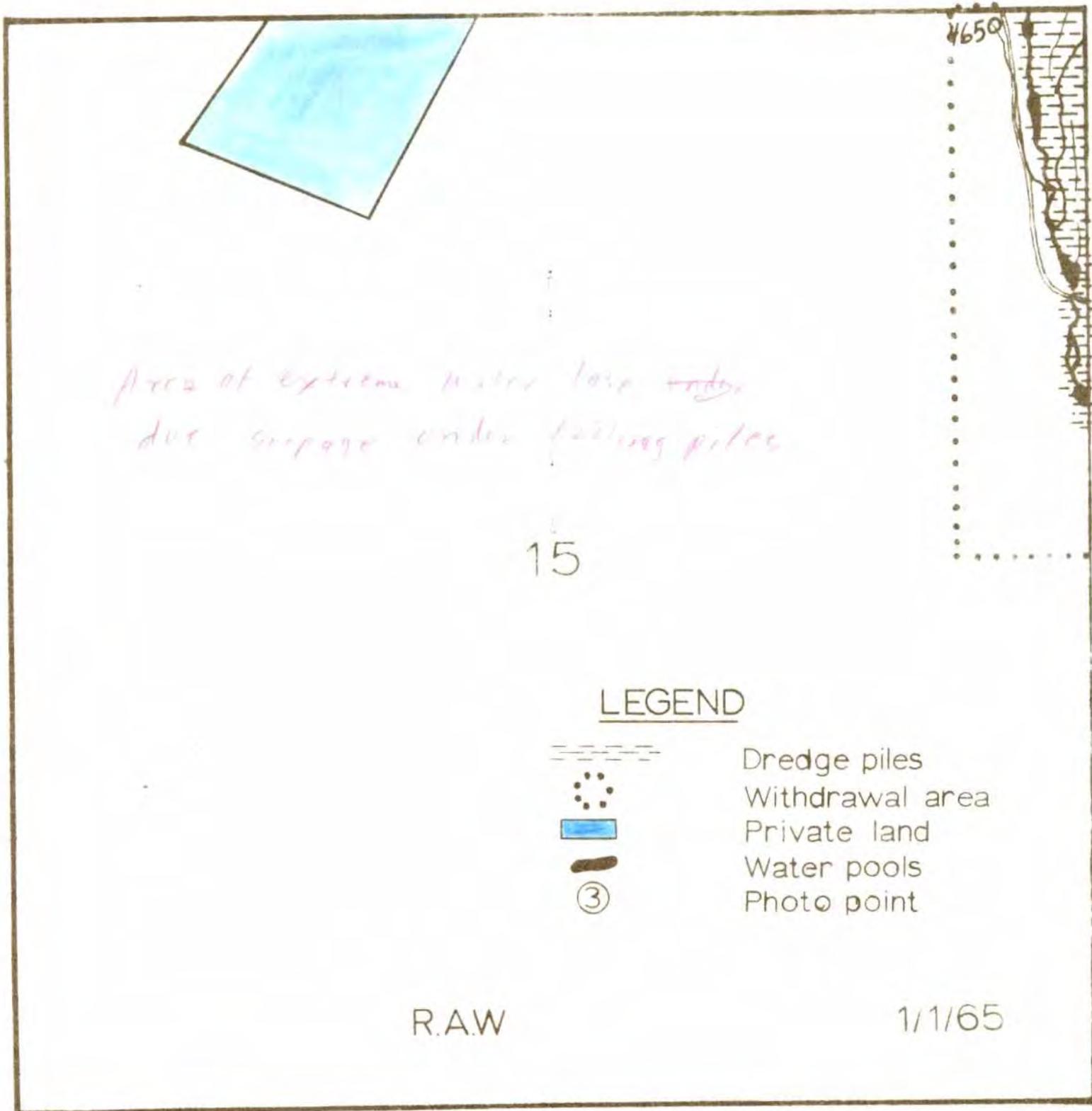
CLEAR CREEK

T.9S., R.35E.



CLEAR CREEK

T.9S., R.35E.



*Area of extreme water level index
due seepage under falling piles*

15

LEGEND

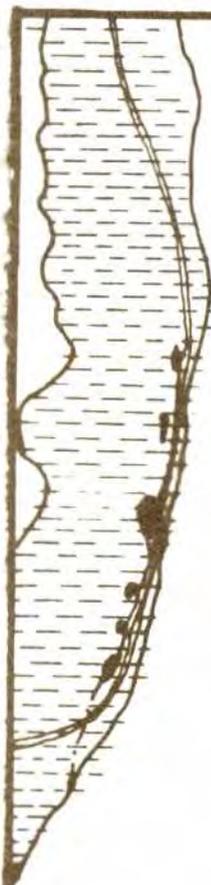
-  Dredge piles
-  Withdrawal area
-  Private land
-  Water pools
-  Photo point

R.A.W

1/1/65

CLEAR CREEK

T.9S., R.35E.



LEGEND

-  Dredge piles
-  Withdrawal area
-  Private land
-  Water pools
-  Photo point

R.A.W

1/1/65

24

*Area of extreme water loss due
to George W. W. tailing piles*

GRANITE CREEK

T.9S., R.35 1/2 E

LEGEND



Dredge piles
Withdrawal area
Private land
Water pools
Photo point

R.A.W

1/1/65

4

Sec. 3

GRANITE

11

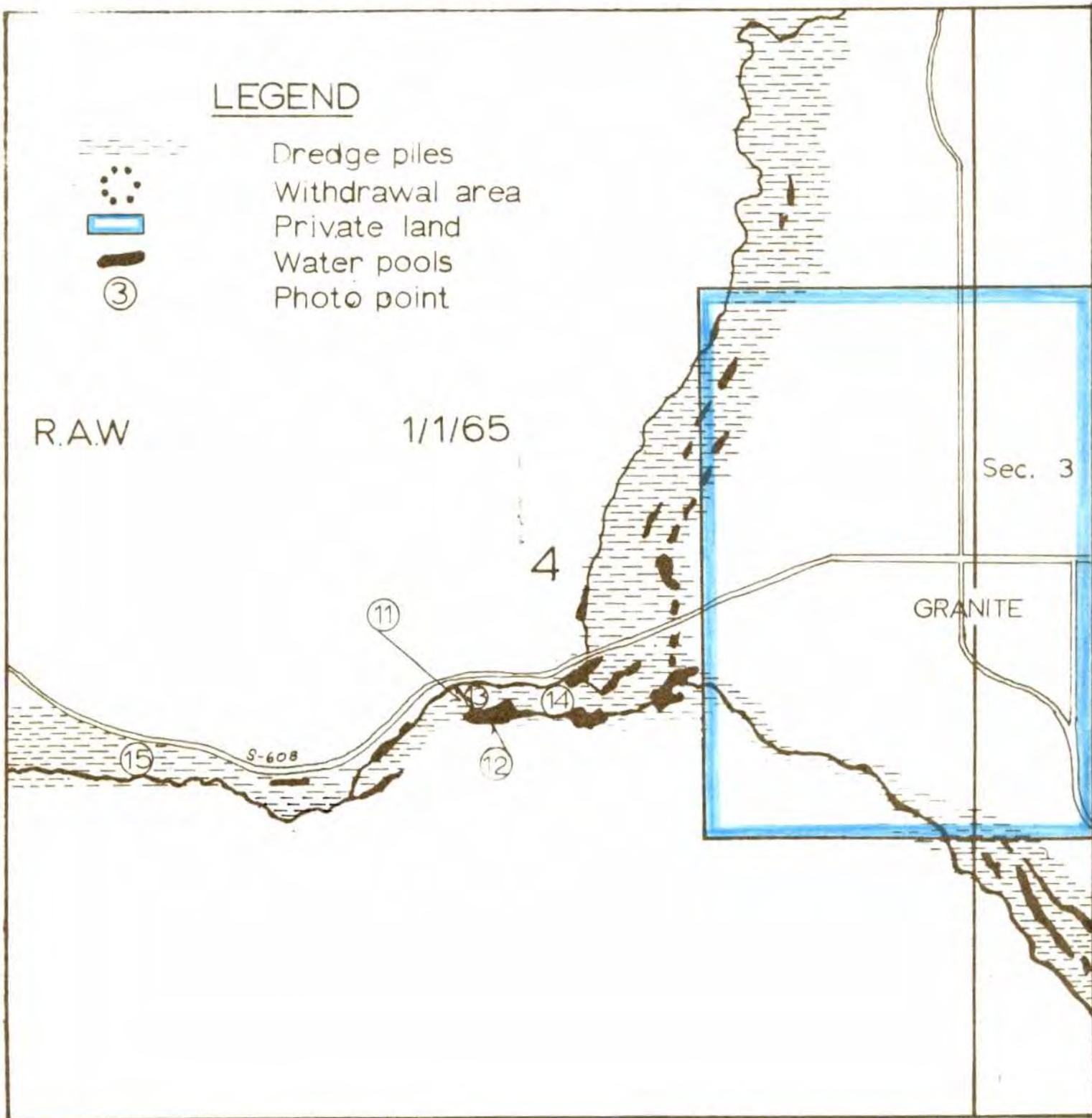
13

14

12

15

S-608



UNITED STATES DEPARTMENT OF AGRICULTURE
FOREST SERVICE

Dale Ranger Station
Dale, Oregon 97880

REPLY TO: 2620 Planning

January 19, 1978

SUBJECT: Statewide Comprehensive Plans for Oregon

TO: Forest Supervisor, Umatilla



We have included a plan for ~~Dale~~ District for Fiscal Year 1979 through 1983. Those items that do not have benefit/cost information are probably better calculated at your office.

1979

Priority #55 (Feel this work should move up on priority.)

1. Continuation of the Clear Creek - Granite Rehabilitation Plan. Work to be done are items c, d, e, f, g, h, i & m and 1 mile of k in work items listed for 1966.

Cost = \$18,000

1980

Priority #81

1. 5 Osprey nest boxes at Olive Lake ^{\$}2,000

Add for 1980

1. Finish leveling tailings (3 miles of work items k on 1966 program for Clear Creek - Granite Creek Rehabilitation Plan) Revegetate same area.

2. Plant willows on 1979 work on Clear Creek.

3. Intensive stream survey of N. Fk. John Day Drainage to obtain data for possible Wild & Scenic Rivers. Total = \$20,000

3. Intensive stream survey of N. Fk. John Day Drainage to obtain data for possible Wild & Scenic Rivers. = \$5,000

1980 total = \$27,000

1981

Add for 1981

1. Do the following work that was listed for the Clear Creek Rehabilitation Plan in 1967. Work items c, d, e, h, & i.

1981 total = \$32,500

1982

Add for 1982

1. Plant willows on Clear Creek Rehabilitation Plan Area that was worked in 1981. = \$1,500

2. Clear Creek Rehabilitation Plan - All work items listed for 1968 in that plan/ = \$30,500

1982 total = \$32,000

1983

Add for 1983

1. Clear Creek Rehabilitation Plan - all work items listed for 1969 except "B-H". = \$16,000
 2. Stream fencing for Kelsay Creek around Kelsay Meadow. About 4 miles of let down fence @ \$3,000/mile. To be maintained by the Forest Service. Improve fish habitat, restore streambank vegetation, improve water quality. Benefit/cost ratio at least 3:1 according to information from O.D.F.&W. Protects 2+ miles of stream. Cost = \$12,000
- 1983 Total = \$28,000

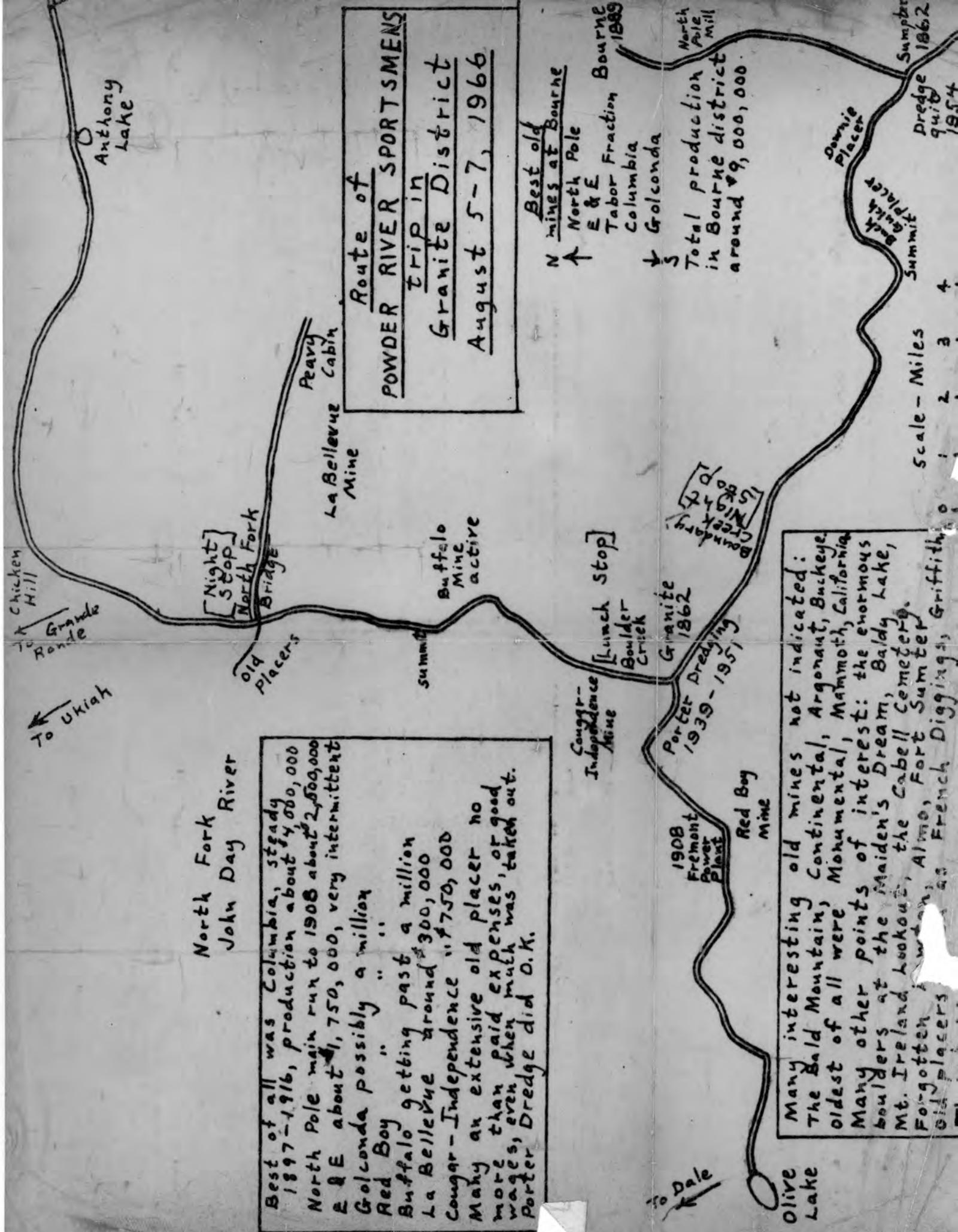
C. GREGORY JOHNSON

for / DAVID W. DAHL
District Ranger

North Fork River
John Day River

Best of all was Columbia, steady 1897-1916, production about \$4,000,000
 North Pole main run to 1908 about \$2,500,000
 E & E about \$1,750,000, very intermittent
 Golconda possibly a million
 Red Boy " "
 Buffalo getting past a million
 La Bellevue around \$300,000
 Cougar - Independence " \$750,000
 Many an extensive old placer no more than paid expenses, or good wages, even when much was taken out.
 Porter, Dredge did O.K.

Route of
POWDER RIVER SPORTSMENS
TRIP IN
Granite District
August 5-7, 1966



Best old
 N mines at Bourne
 ↑ North Pole E & E Tabor Fraction Bourne 1889 Columbia Golconda
 ↓ Total production in Bourne district around \$9,000,000

Many interesting old mines not indicated: The Bald Mountain, Continental, Argonaut, Buckeye, oldest of all were Monumental, Mammoth, California. Many other points of interest: the enormous boulders at the Maiden's Dream, Baldy Lake, Mt. Ireland Lookout, the Cabell Cemetery, Forgotten Mountain, Almo, Fort Sumner, Griffiths, Old Placers as French Diggings.

Scale - Miles
 0 1 2 3 4

Sumner 1862
 Bridge 1954

To Dale

Olive Lake

Boundary
 Creek
 Night
 Trip

Cougar-Independence Mine
 [Lunch stop]
 Boulder Creek

Granite 1862
 Porter Dredging 1939-1955

1908 Fremont Power Plant

Red Boy Mine

[Night stop]
 North Fork Bridge

Peavy Cabin
 La Bellevue Mine

Buffalo Mine active

Downie Placer

Back Placer
 Sumner Placer

Chicken Hill
 Grande Ronde
 To Ukiah

Anthony Lake