

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

RECEIVED

JAN 22 1996

Department of Water Resources

A. GENERAL INFORMATION

Permit No. 25-7475

1. Owner: IDAHO PACIFIC CORP.

Phone No. (208) 538-6971

Current Address: P.O. BOX 478, AIRIE, ID 83443

2. Accompanied by: RODNEY CALLUP

EXAM DATE: 5/2/95

Address: SAME

Phone No. SAME

Relationship to Permit Holder: PLANT MANAGER

3. Source: GROUND WATER tributary to N/A

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 25-7056

2. Other water rights with the same point of diversion: 25-7056

C. DIVERSION AND DELIVERY SYSTEM

1. Point(s) of Diversion:

Ident No.	Gov't Lot	1/4	1/4	1/4	Sec.	Twp.	Rge.	County	Method of Determination/Remarks
		NW	SE	SW	28	4N	40E	JEFFERSON	U.S. G.S. 7070 MAP

2. Place(s) of Use:

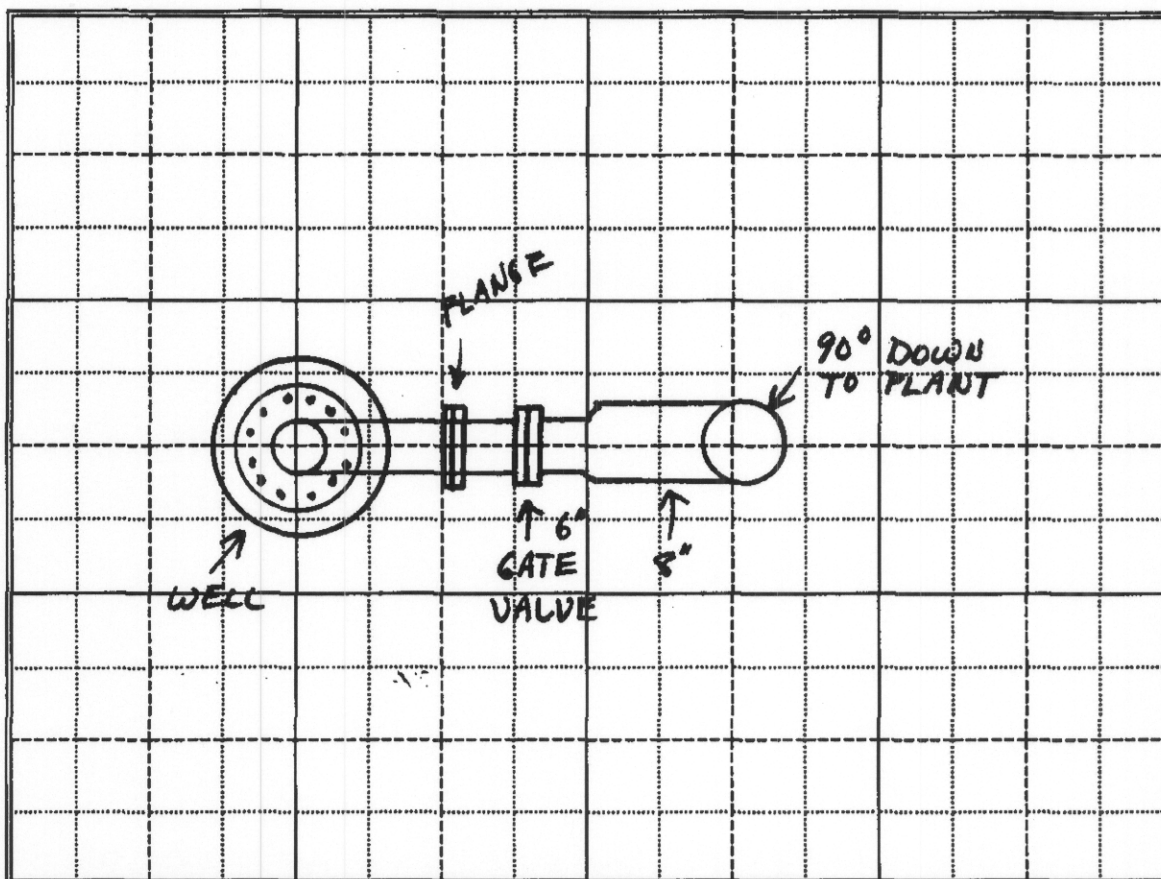
Indicate Method of Determination ON SITE INSP.

TWP	RGE	SEC	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
4N	40E	28												I					

MICROFILMED

SEP 10 1997

3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe i.d. as applicable. *SEE FLOW CHART FOR PLANT*



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
#1		50	SUBMERSIBLE	FRANKLIN	6"

*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
PRESSURE GAGE		U.S. G.			0-160	48 PSI

2. Measurements: NONE

MICROFILMED

SEP 10 1997

E. NARRATIVE/REMARKS/COMMENTS

ON 5/2/95 AT APPROXIMATELY 1030 HRS A FIELD EXAM WAS
CONDUCTED ON PERMIT #25-7475.

WATER FOR THIS INDUSTRIAL SYSTEM IS PUMPED OUT OF
A WELL VIA A SUBMERSIBLE 50 HP PUMP. WATER THEN
ENTERS A MANIFOLD SYSTEM WHERE IT IS DIVERTED
OUT TO VARIOUS PLANT PROCESSING AREAS. WATER
IS ALSO USED TO WATER APPROXIMATELY 2 ACRES OF
LAWNS.

WELL:	10" CASING	PUMP:	50 HP SUBMERSIBLE
	643' FEET DEEP		6" OUTPKT
	24' STATIC WATER		48 PSI AT PLANT
			MANIFOLD

PLANT FLOW METER - RAIN BIRD METER

315997.00 GALLONS USED TO DATE 700 GPM GAGE

* PLANT ENGINEER KEN DURRELL

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

MICROFILMED
SEP 10 1997

F. FLOW CALCULATIONS

Measured Method:

$$Q = 2.13 \text{ cfs}$$

$$Q \text{ LIMITED BY PERMIT} = 1 \text{ cfs}$$

Licence 25-07056 now comes from this well; 1.2 cfs licensed
2.15 cfs capacity - 1.2 cfs = 0.93 cfs

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

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

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

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

2. Volume Calculations for Other Uses:

$$\text{PLANT DISCHARGE} = 295,000 \text{ GPD} \times 270 \text{ OPERATING DAYS} = \frac{79,650,000 \text{ GALS/YR}}{325,850 \text{ GALS/AF}} = 244,437 \text{ AFA}$$

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
INDUSTRIAL	1/1	12/31	1.0 cfs 0.93	244.4
Totals:			1.0 cfs 0.93	244.4 AFA

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 SIMPKINS Date 1/9/96

Reviewer J. C. Jones Date 1-16-96

SEAL

MICROFILMED

SEP 10 1997

THEORETICAL PUMP FLOW CALCULATIONS

Formula:

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

Hp = Horsepower = 50
Eff = Efficiency = .7 (Usually 70%)
Lift: (Static Level + Assumed Drawdown)
Static Water Level = 24 ft.
Assumed Drawdown = + 10 ft.
Lift = 34

OR

Measured Dynamic Water Level = _____ ft.

psi = Operating Pressure = 48 psi

$$Q_{cfs} = \left[\frac{50}{Hp} \times 8.814 \times \frac{.70}{Eff} \right] \div \left[\frac{34}{Lift} + \left(\frac{48}{psi} \times 2.308 \right) \right]$$

$$Q_{cfs} = \left[\frac{308.45}{} \right] \div \left[\frac{144.784}{} \right]$$

$$Q_{cfs} = \frac{2.13}{} \text{ cfs}$$

MICROFILMED

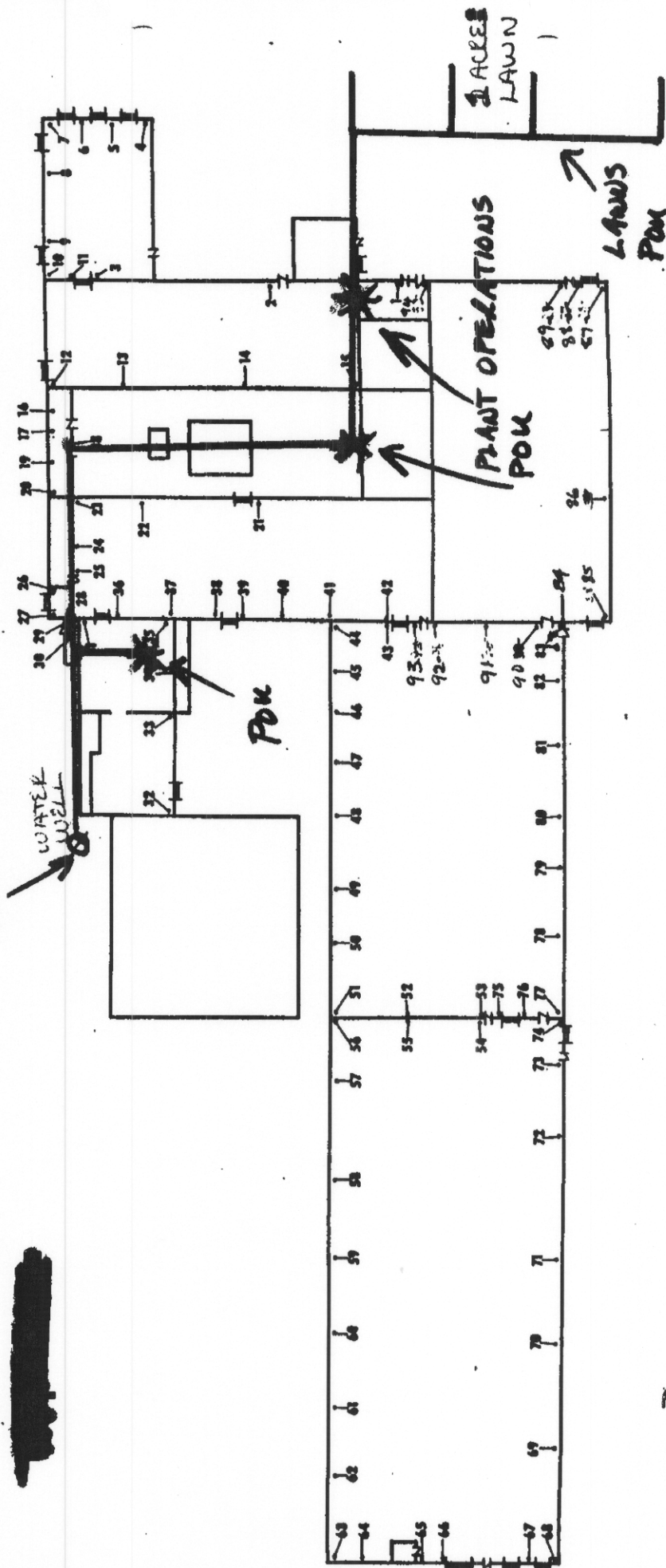
SEP 18 1977

25-07475

WATER SYSTEM USAGE FLOW CHART OF PLANT.

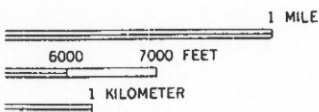
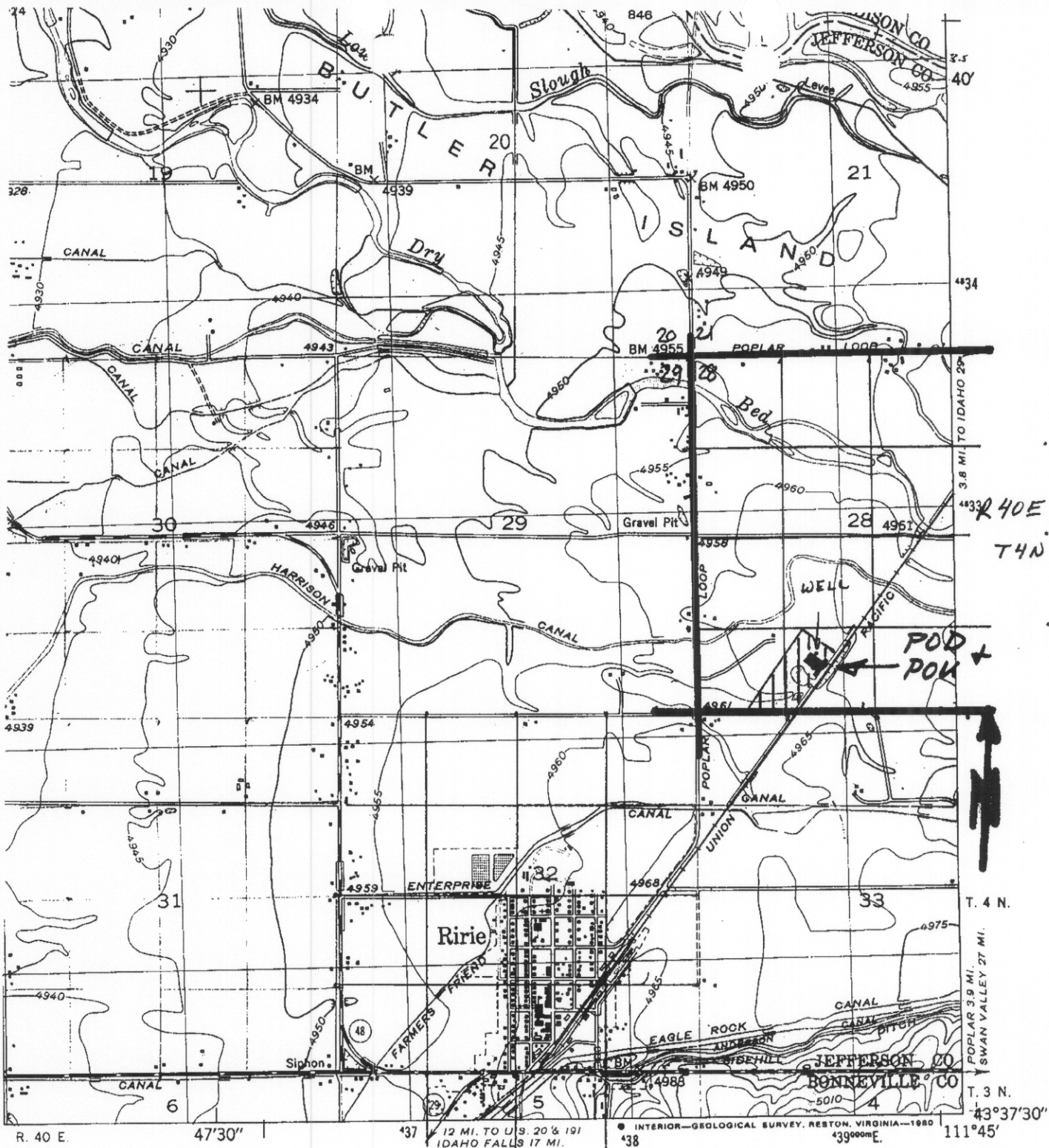
Idaho Pacific

POD
WELL



25-07475

MICROFILMED
SEP 10 1987



ROAD CLASSIFICATION

HARD-SURFACE ALL WEATHER ROADS DRY WEATHER ROADS
Heavy-duty... 4 LANE 16 LANE Improved dirt...
Medium-duty... 4 LANE 16 LANE Unimproved dirt

U. S. Route

State Route

25-07475

X-44

STANDARDS
OR RESTON, VIRGINIA 22092
AVAILABLE ON REQUEST

Revisions shown in purple and woodland compiled from
aerial photographs taken 1976 and other source data.
This information not field checked. Map edited 1980

RIRIE, IDAHO
N4337.5-W11145.7.5

SEP 10 1937

1950

PHOTOREVISED 1980
DMA 3671 III NE-SERIES V893