

[illegible]

2. Measurements:

Static H₂O level 10' Average pressure @ pump stops

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

D. FLOW MEASUREMENTS

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

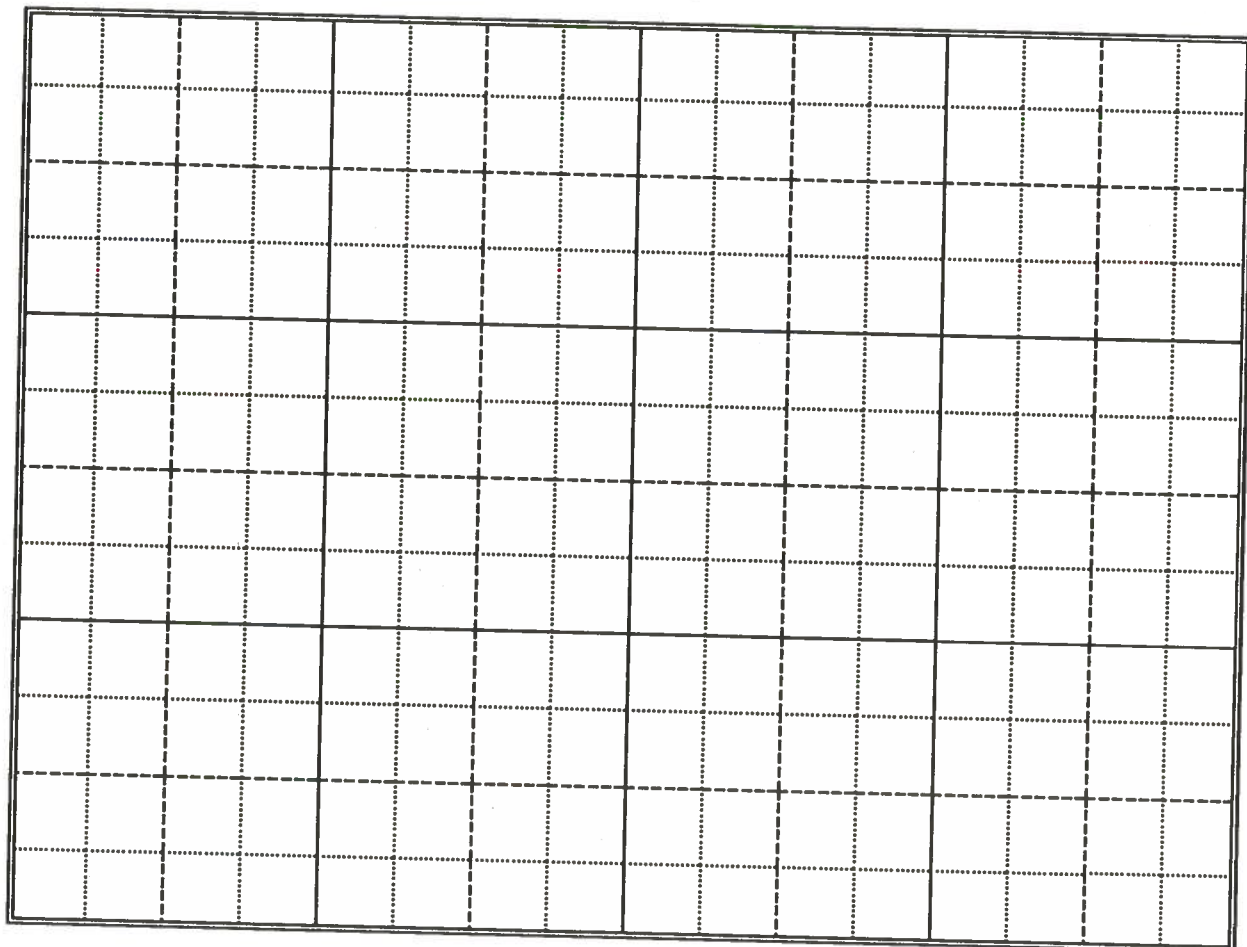
Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
#1	Sta Rite	3/4hp	Submersible Pump Motor		
#2	Franklin	10	Submersible Pump Motor		

4.

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



3. Delivery System Diagram: Indicate all major components and distances between components. Indicate weir size/ditch size/pipe l.d. as applicable.

E. NARRATIVE/REMARKS/COMMENTS

Range Cattle for stocky and 700 head photos 13, 14, 15

No stock @ time of exam

Use it for feed lot and single domestic home

Two wells available to feed lot's single domestic home

3/4 hp well supplies home ; irrigation of up to 1/2 ac in conjunction with domestic use.

IRRIGATION OF APPROXIMATELY 3 ac. A valve on the west edge of the property would indicate that the 2 1/2 ac were irrigated from the well in SWSW, Sec 27, T 25, R 36 E (LICENSE 27-07303A). It appears that these 3 acres should have been included in the licensing exam for 27-07303A.

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

27-7564

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SEAL

F. FLOW CALCULATIONS

Additional Computation Sheets Attached

Measured Method:

$Q_{\text{measured}} = 0.46 \text{ cfs}$

$Q_{\text{limited by demand}} = 0.20 \text{ cfs}$

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$V_{ir} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$
 $V_{dr} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 =$
 $V = \text{Smaller of } V_{ir} \text{ and } V_{dr} =$

2. Volume Calculations for Other Uses:

$$\begin{aligned} V_{\text{stock}} &= 700 \times 0.0134 = 9.38 = 9.4 \text{ af} \\ V_{\text{domestic}} &= 1.2 \text{ af} \end{aligned}$$

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use

Domestic (unit)
Stockwater
(700 Range cattle)

2. Recommended Amendments

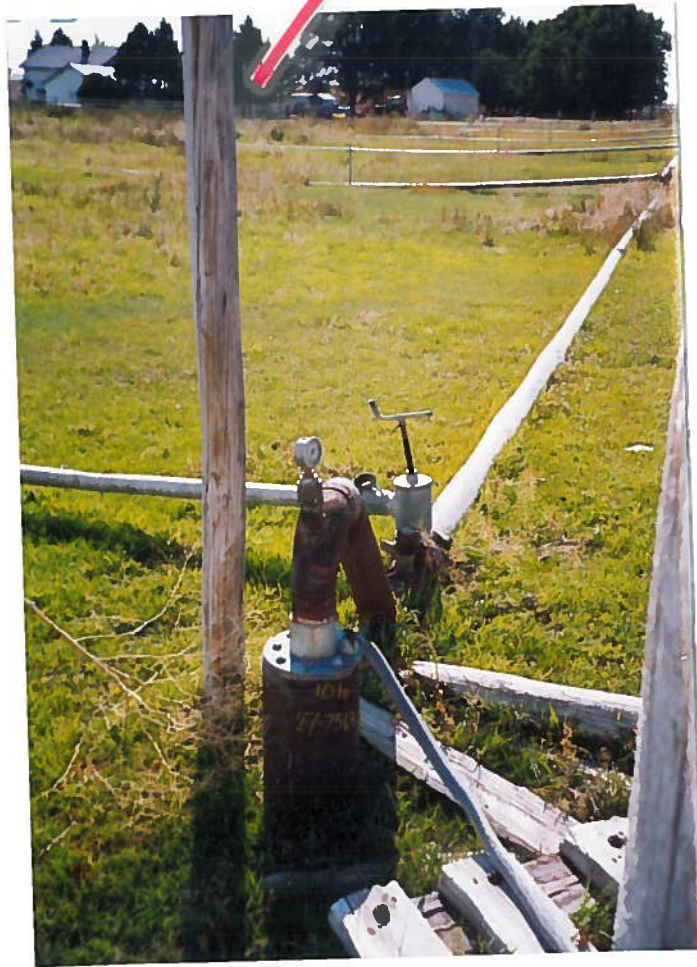
☐ Change P.D. as reflected above
☒ Add P.D. as reflected above

☐ Change P.U. as reflected above
☒ Add P.U. as reflected above
☐ Other
☒ None

I. AUTHENTICATION

Field Examiner's Name KATH C. WILSON Date 9/2/1999
Reviewer Dave Carlson Date 6/1/2013

well #1



Well #2

27-7564



Well #2

Well House
Well #1



27-7564

THEORETICAL PUMP FLOW CALCULATIONS

Formula:

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

$$\begin{aligned} Hp &= \text{Horsepower} = \underline{10} \\ Eff &= \text{Efficiency} = \underline{70\%} \quad (\text{Usually } 70\%) \\ \text{Lift: } &(\text{Static Level} + \text{Assumed Draw down}) \\ &\text{Static Water Level} = \underline{10} \text{ ft.} \\ &\text{Assumed Draw down} = + \underline{10} \text{ ft.} \\ &\text{Lift} = \underline{20} \end{aligned}$$

OR

$$\text{Measured Dynamic Water Level} = \underline{\hspace{2cm}} \text{ ft.}$$

$$psi = \text{Operating Pressure} = \underline{\hspace{2cm}} \text{ psi}$$

$$Q_{cfs} = \left[\frac{10}{Hp} \times 8.814 \times \frac{0.70}{Eff} \right] \div \left[\frac{20}{Lift} + \left(\frac{50}{psi} \times 2.308 \right) \right]$$

$$Q_{cfs} = \left[\underline{61.698} \right] \div \left[\underline{135.4} \right]$$

$$Q_{cfs} = \underline{0.46} \text{ cfs}$$

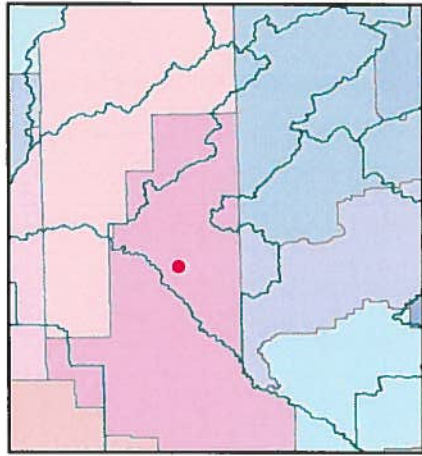
PERMIT NO. 27-7564



Idaho Department of Water Resources

Water Right
27-7564
(DOMESTIC)

- Point of Diversion
- Place of Use
- State Outline
- Townships
- PLS Sections
- Quarter Quarters



Bingham County
IDWR Basin 27

Prepared by Carlson, Dave

2009 Aerial Photography

36E



02S

