

10/1/2003

25-12634

Met with Van Arnold. Van said the hard wood type pump was replaced with a submersible pump in 1967. Both pumps were equipped with 1.5 HP motors.

Van estimated that former owner Alex Robb watered 1000 head of lambs with this well in the early 1960's. Up until 1976, the pump was used for stockwater only.

Pump has been disconnected and water has been supplied by Falls Water Co. for over 10 years. Van says Falls Water charges extra on water use over 20,000 gallons per month. Van says he has never been assessed the additional charge.

$$Q = \frac{1.5 \text{ HP} \times 8.814 \times 0.60}{(50 \times 2.31) + 65' + 10} = 0.04 \text{ cfs}$$

It appears that this store was not included in 25-7552.

P/D N 2,69818
E 664608

$$\frac{2000 \text{ GPD} \times 365}{325,850} = 2.3 \text{ AF}$$

MEMORANDUM

TO: File 25-07552

FROM: Shari

DATE: April 8, 1998

RE: Commercial Use

Licensing remarks for this right will not include the convenience store in the description of the commercial use. A convenience store was not proposed in the original application.



State of
DEPA
1301 Nor
Phone: (2

April 8, 1998

ARNOLD FEED LOC
3488 LINCOLN RI
IDAHO FALLS ID

RE: WATER RIGHT

Dear Permit Holder:

The Department referenced above is issuing a license to the licensee who has been established as an examiner who will be of diversion at other than what a license can be your water right.

The enclosed Application of diversion at appear on the amendment form presented, please filling fee with

Also, please note approval and review.

If you do not have information, please call number is (208)

Sincerely,

Shelley M. Keer

Shelley M. Keer

THEORETICAL PUMP FLOW CALCULATIONS

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

SYSTEM: #1 SDR

$Hp = \text{Horsepower} = \frac{1}{70\%}$ (Usually 70%)
 $Eff = \text{Efficiency} = \frac{1}{70\%}$ (Usually 70%)
 Lift: (Static Level + Assumed Draw down) = 90 ft.
 Static Water Level = 10 ft.
 Assumed Draw down = + 100 ft.
 Lift = 100 ft.

OR

Measured Dynamic Water Level = ~ ft.

psi = Operating Pressure = 25-55 psi

$$Q_{ds} = \left[\frac{1}{Hp} \times 8.814 \times \frac{0.7}{cf} \right] \div \left[\frac{100}{Lift} + \left(\frac{25}{psi} \times 2.308 \right) \right]$$

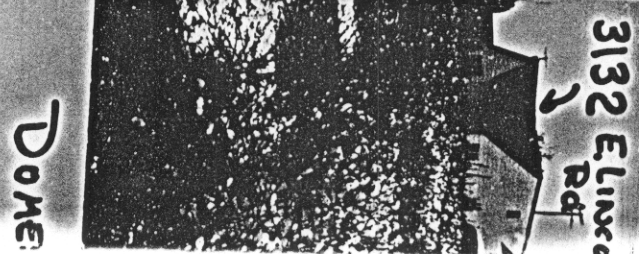
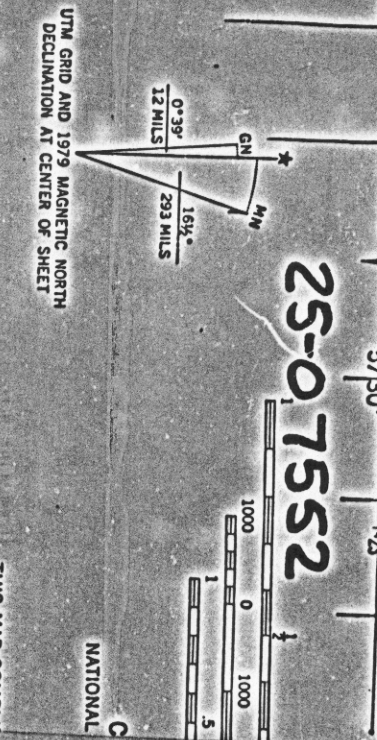
$$Q_{ds} = \left[\frac{6.1698}{cf} \right] \div \left[\frac{157.7}{Lift} \right]$$

$$Q_{ds} = \frac{0.04}{cf} \text{ SYSTEM } \underline{\text{SDR} (\#1)}$$

SYSTEM: #2 FEED W

$Hp = \text{Horsepower} = \frac{5}{70\%}$ (Usually 70%)
 $Eff = \text{Efficiency} = \frac{5}{70\%}$ (Usually 70%)

al Transverse Mercator grid ticks,
 1927 North American datum
 ed on Idaho coordinate system,
 compiled by multiplex methods,
 1946
 1927 North American datum
 ed on Idaho coordinate system,
 1927 North American datum 1983,
 lines 12 meters north and
 own by dashed corner ticks



Part E. NARRATIVE/REMARKS/COMMENTS:

PERMIT #25-07552

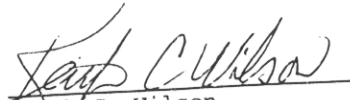
There are two separate systems covered under this permit.
System #1 (NE¼NE¼, Sec 15, T02N, R38E) consists of a well, pump, mainline to a convenience store with offices, and a meat cutting operation. This well is also used to fill tanks (in summer) for stockwater at the feed lot when the feed lot system (#2) is unable to supply the necessary water.
System #2 (NW¼NE¼, Sec 15, T02N, R38E) consists of a well, pump, mainline to three domestic homes (3094, 3108, & 3132 E Lincoln Rd), a feed lot shop, feed lot (3500-4000 head range cattle), and a mill. The mill is used to chop the feed and water is added if the feed is too dry.

Currently both wells are temporally disconnected and the water is being supplied by Falls Water Company a public utility. Based on my previous conversations with Falls Water Company & the statement of permit holder the Falls Water Company usually does not supply water to an agricultural operation. The wells on both systems can easily be reattached to the delivery system that is currently being supplied water by Falls Water Company.

The feed lot is located in close proximity to urban development. Mr Van Arnold already recognizes the fact that eventually his operation will have to move. It's not a matter IF they'll move, but WHEN! When they are required to move they will need a water right in order to stay in business.

It is the opinion of this field examiner that a license should be issued. This is based on the following:

1. The area around the feed lot is becoming more urban, and the feed lot will most likely be required to move sometime in the future (based on a prior situation dealing with a feed lot just north of Idaho Falls).
2. Falls Water Company may at any time refuse to deliver water to an agricultural operation
3. The wells and delivery systems as permitted were developed prior to the proof due date.


Keith C. Wilson
Senior Resource Agent

25 Feb 1998
Date

PERMIT #25-07552