

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

NOTICE OF DIVERSION FOR INSTREAM STOCKWATER USE

(To provide notice of intent to divert surface water from a stream or riparian area to troughs or tanks for the watering of livestock)

1. Name of Right Holder Patrick McConnagh Phone 208-756-3028
Mailing address 373 Sandy Creek Rd, Salmon ID 83416
2. Source of water supply Sandy Creek tributary to in Lemhi Basin;
but doesn't reach the Lemhi R.
3. Point of diversion is in Gov't. Lot 364, SE 1/4 SW 1/4 NW 1/4, Section 10,
Township 20N Range 24E, B.M., Lemhi County.
4. Description of diversion and delivery system:
 - a) Describe the type of diversion: Inlet box shall be a 5' length
6536" plastic, concrete or metal pipe & shall extend
2' below the creek bottom.
 - b) Describe the delivery system: 1.25" PVC or Polyethylene Supply
pipe with a min pressure rating of 125 PSI
 - c) Describe the number, type and total capacity of troughs or tanks 3 tanks/waterers;
Rubber/Concrete brands, 20-30 gal capacity
 - d) Describe the automatic shutoff or flow control mechanism or means of
Returning unused water to the source: float valves will be used
or the water will be piped back into the Sandy Creek system
 - e) Describe how the system is designed to allow measurement of the rate of
diversion: The ISlt engineer completed a stockwater
pipe capacity analysis; incl
5. Describe the place of use by placing an X in the appropriate 40-acre tract(s) below:

TWP	RGE	SEC	NE				NW				SW				SE			
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE
<u>20N</u>	<u>24E</u>	<u>10</u>											<u>X</u>					
													<u>lot</u>					
													<u>3</u>					

6. Priority date claimed or established: 1935
7. Rate of diversion: 0.02 cfs

4c. 3 Thermo-sink 8.5' Double tub waterers;
approximately 100 gal capacity; picture incl.

RECEIVED
JUL 14 2006
Department of Water Resources
Eastern Region

8. Season of use: From 1 Jan to 31 Dec
9. a) Who owns the property at the point of diversion? Patrick McConnaghy
b) Who owns the property at the place of use? Patrick McConnaghy
10. When will construction occur? April / May 2006 in July
11. Comments: In the process of obtaining a 404 Permit from the Army Corps of Engineers.

I hereby assert the following:

- a) Diversion is from a surface water source to which the livestock would otherwise have access. The land where the watering tanks or troughs will be located is land from which the livestock had access to the source of water from which diversion is being made.
- b) The diversion of water out of the stream as described in this notice is for watering livestock and will not injure other water rights.
- c) I will not alter the bed and banks of the source as the term is defined in section 42-3802, Idaho Code. I understand that I may place an inlet conduit into the source in a manner that does not require excavation or obstruction of the stream channel, unless the director of the department of water resources approves a stream channel alteration permit for additional work.
- d) I understand that upon determination of interference with other water rights, the Director may order curtailment of diversion or use of water under this notice or may require the diversion and delivery system to be modified to prevent injury.
- e) I will not divert more than 13,000 gallons per day for livestock watering from this diversion, and I will not use more than one point of diversion under this notice.
- f) I am authorized to make the changes described in this notice and that if the notice involves a federal grazing allotment, the permittee consents to the changes described in this notice.
- g) I understand that any willful misrepresentation on this notice will void any right to divert water for livestock under this notice.

Dated this 6th day of February, 2006

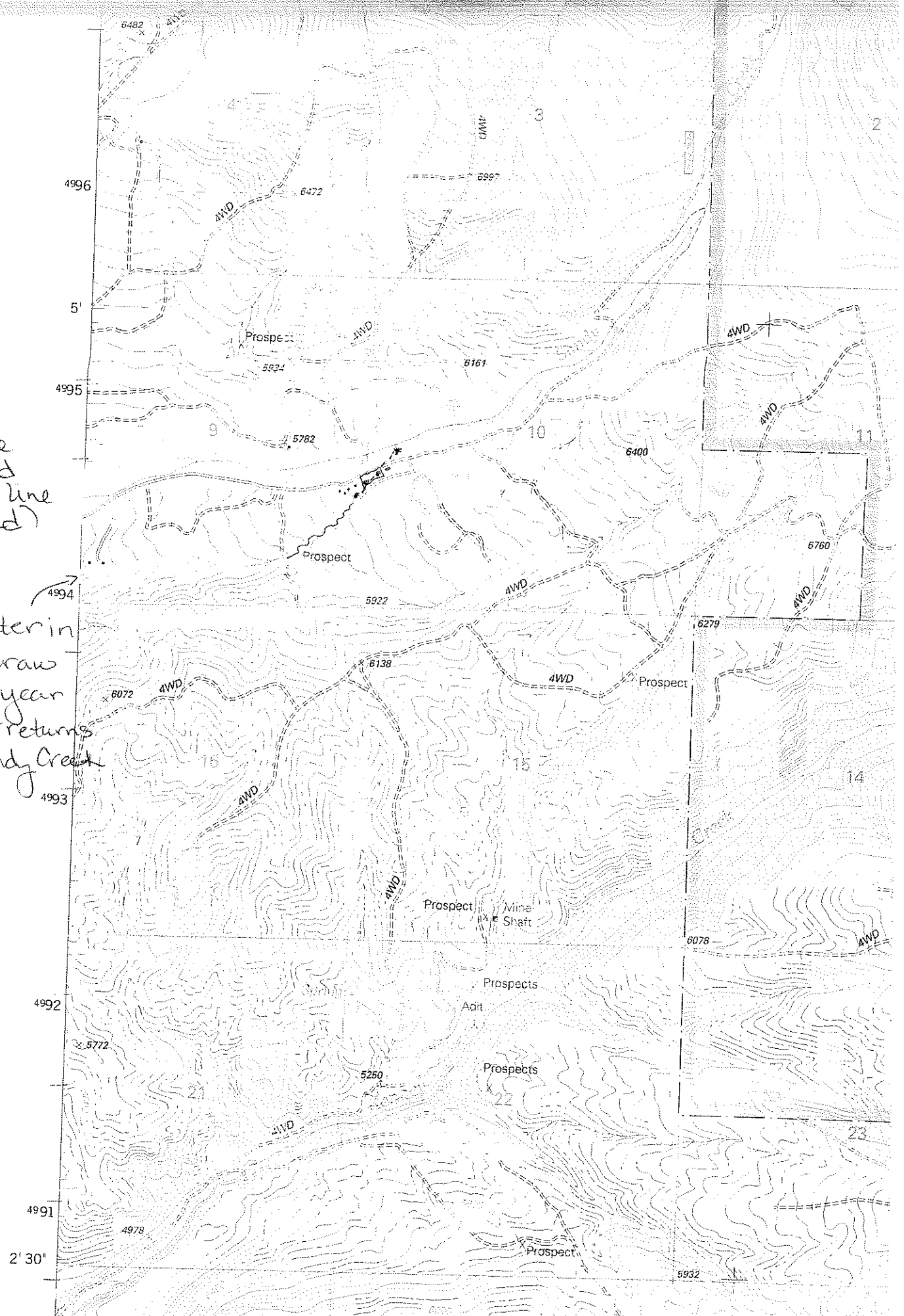
Pat Mc Connaghy
Right Holder or Authorized Representative

FOR DEPARTMENT USE

Received by sc Date 7/14/06 Preliminary check by _____
Fee: \$ 25- Receipted by sc Receipt No. E032081 Date 7/18/06
Water District No. _____ Entered into data base _____ By _____

Legend
 * headbox
 o troughs
 - water line
 ~ proposed return line (if needed)

the water in
 this draw
 slows year
 long & returns
 to Sandy Creek



Stockwater Pipe Capacity Analysis

For: Pat McConaghy
 By: Rick Rumsey
 Date: 7/11/2005

Section	Pipe		Assumed		Flow Velocity (ft/s)	Reynolds Number	Friction Loss Coefficient	Flow Rate (cfs)	Flow Rate (gpm)
	Length (ft)	Pipe Diameter (in)	Elevation Difference (ft)	Friction Loss Coefficient					
Trough 1	600	1.38	29	0.032	3.34	2.73E+04	0.032	0.03	15.59
Trough 2	750	1.38	45	0.031	3.79	3.09E+04	0.031	0.04	17.65
Trough 3	950	1.38	69	0.031	4.17	3.40E+04	0.031	0.04	19.42

Roughness (k) = 0.005 inches
 Kinematic Viscosity (v) = 1.41E-05 ft²/s
 Equation o.k.
 Equation o.k.
 Equation o.k.

Polyethylene Pipe Sizes

Size (inches)	Inside Diameter (inches)
1/2	0.622
3/4	0.824
1	1.049
1 1/4	1.38
1 1/2	1.61
2	2.067

PVC Pipe Sizes (Sch. 40)

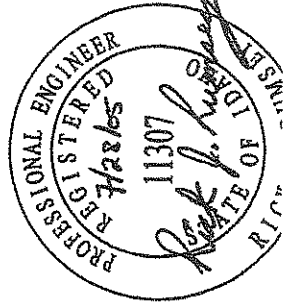
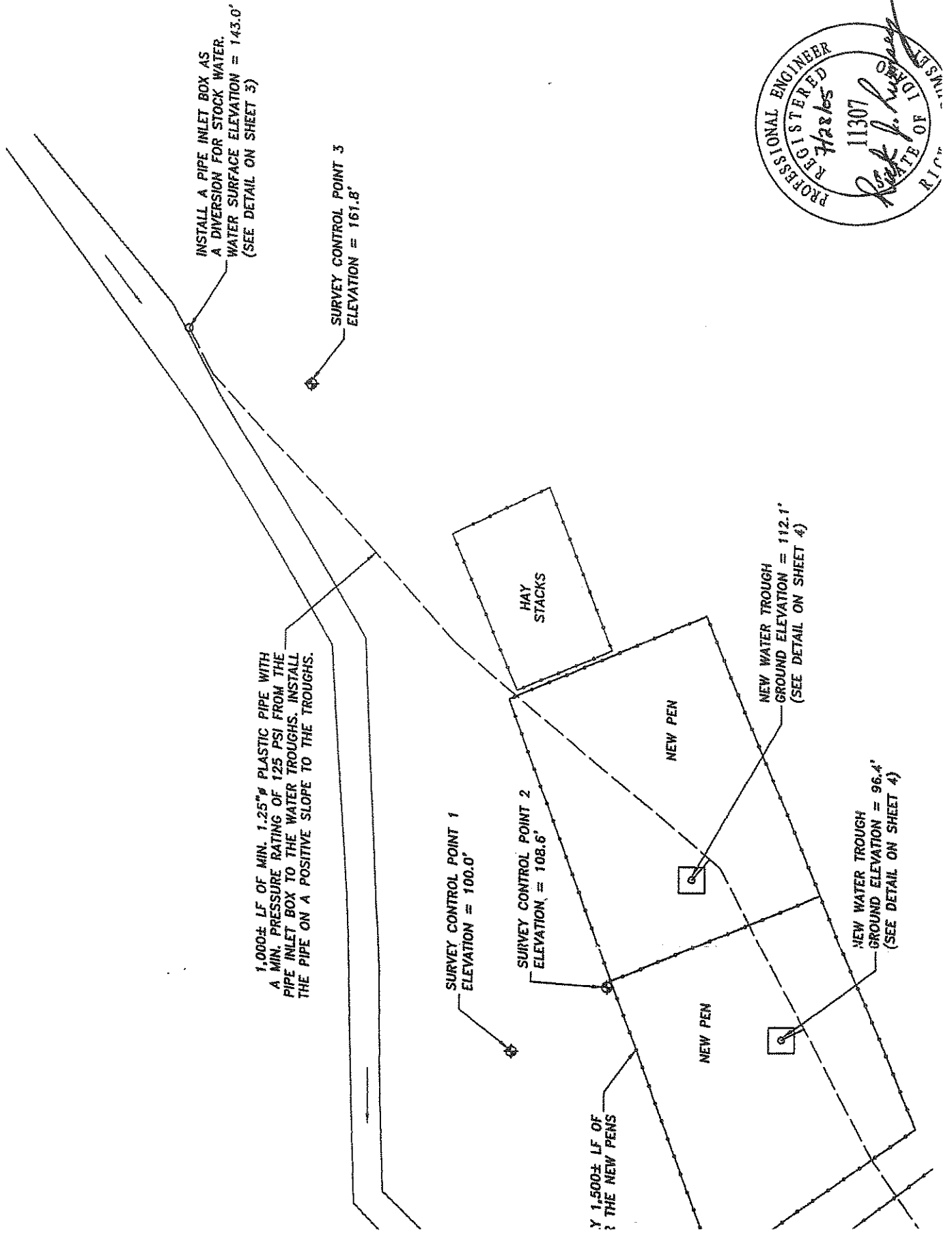
Size (inches)	Inside Diameter (inches)
1/2	0.6
3/4	0.8
1	1.03
1 1/4	1.36
1 1/2	1.59
2	2.04

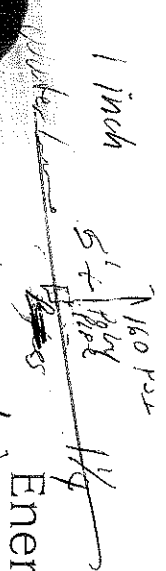
Cattle Water Requirement

of Cows = 100 hd
 Water Requirement = 20 gal/hd/day
 Daily Water = 2,000 gal/day
 Design Time = 8 hours
 Design Flow Rate = 4.17 gpm

McConnarty Ranch
Design-20

SHEET 2 - DESIGN





Photos Courtesy of Timberline Photography