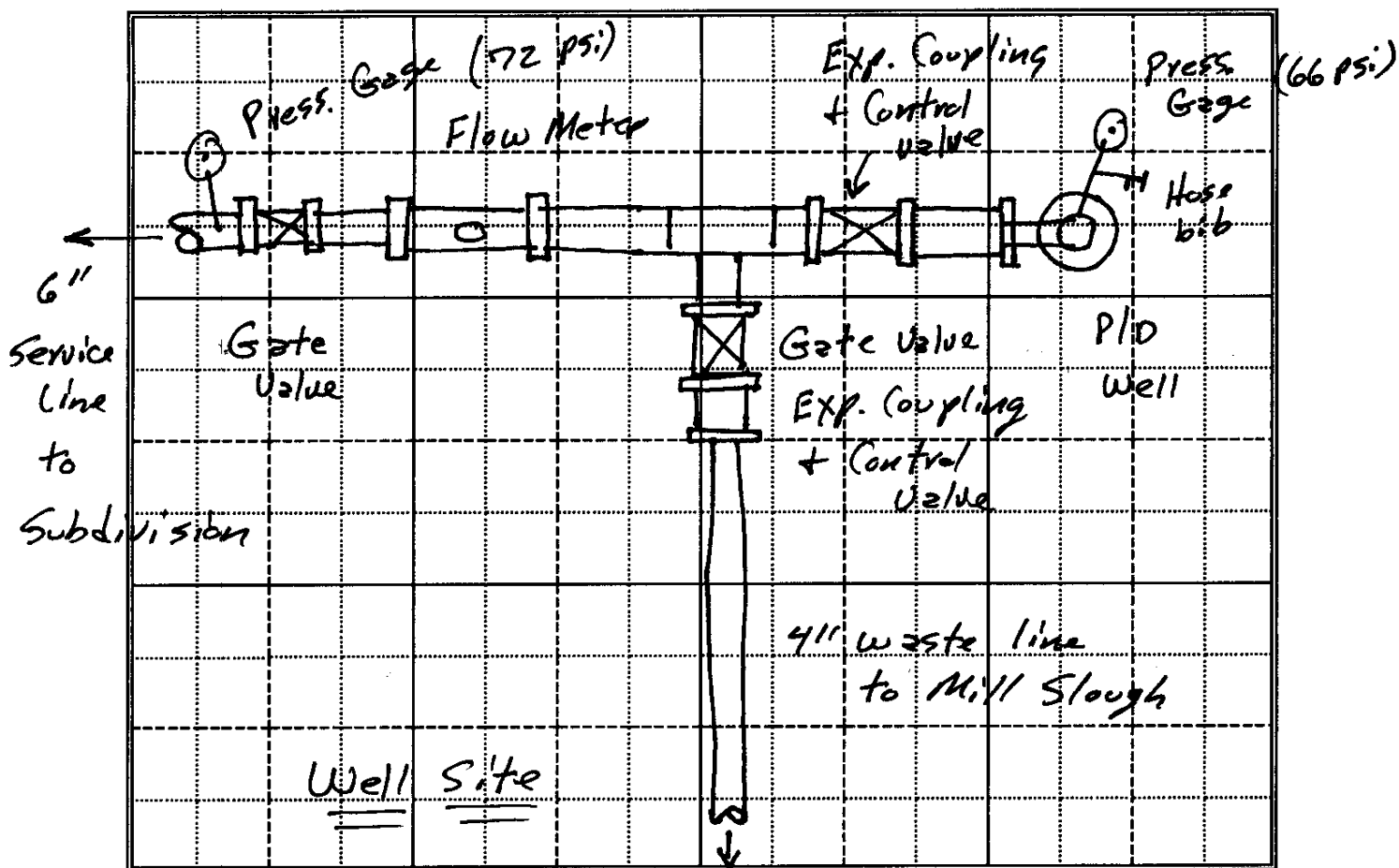


[illegible]

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



Scale: 1" = None

☒ 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.

Subdivision was not on latest Aerial Photo

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
	Franklin	15	2366 529020 5N 336616	Aermotor	6MB180 Series 4 Stage
			963		

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

D. FLOW MEASUREMENTS

1.

Installed flow meter:

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
Mcrometer flow meter	Tot.	Mcrometer		963995	6	

2. Measurements: ~~None~~ *None - operating pressure range is 35 psi to 75 psi*

E. NARRATIVE/REMARKS/COMMENTS

1. This permit is for irrigation water for the Mountain View Subdivision. All lots have been developed in the subdivision. Surface water rights for the agriculture land where the subdivision was developed are being retained, but no surface water is now used for irrigation.
2. The well pump operates at a high rate of flow, and pressure, to meet peak irrigation demand in the subdivision. Control valves, and an automatic control system, dumps excess water above the demand at any given time into Mill Slough through a 4" waste line. At the time of the exam, the line pressure was 66 psi, and excess water was being dumped into Mill Slough. Teresa Cole said that this is a normal operation for the way the system was designed. It appears that a lot of groundwater is wasted along with high pumping costs to the homeowners.
3. A flow meter has been installed in the line at the well.
4. Normally, the well is artesian at about 1 psi.

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

F. FLOW CALCULATIONS

Measured Method: None, Theoretical Cal.

MAX:

$$Q = \frac{(2.8)(15 \text{ HP})(70.2)}{0 + (35 \text{ PSI}) \left(\frac{34'}{(14.7 \text{ PSI})} \right)} \left[\begin{array}{l} \text{TDH} \\ = 81' \end{array} \right]$$

$$= 1.14 \text{ cfs} > 0.40 \text{ cfs}$$

Additional Computation Sheets Attached

From Pump Perf. Curve:

Aermotor 6 MB 18c Series

TDH = 81' @ 35 PSI

For MAX Div. Rate

$$Q = 260 \text{ GPM} = 0.58 \text{ cfs} > 0.40 \text{ cfs}$$

$$Q_{\text{allowed}} = (0.02 \frac{\text{cfs}}{\text{Ac}})(20.1 \text{ Ac.}) = 0.40 \text{ cfs}$$

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = (20.1)(3.5) = 70.35$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = (0.40)(246)(1.9835) = 195.2$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 70.4 \text{ AFA}$$

2. Volume Calculations for Other Uses: About 85% of subdivision is irrigated.

Irrigated Ac. =

$$1) \text{ In NESE: } \text{Ac.} = \left[\left(\frac{1}{2} \right) (610') (1250') \right] \left[\frac{\text{AF}}{(66)(66)(10)} \right] (85\%) = 7.44 \text{ Ac.}$$

$$= 7.5 \text{ Ac.}$$

$$2) \text{ In SESE: } \text{Ac.} = \left[(1250') (520') \right] \left[\frac{\text{AF}}{(66)(66)(10)} \right] (85\%) = 12.68 \text{ Ac.}$$

$$= 12.6 \text{ Ac.}$$

Allow: NESE 7.5 Ac.

SESE 12.6 Ac.

Total 20.1 Ac.

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
<u>Irrigation</u>	<u>03/15</u>	<u>11/15</u>	<u>0.40</u>	<u>70.4</u>
Totals:			<u>0.40</u>	<u>70.4</u>

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

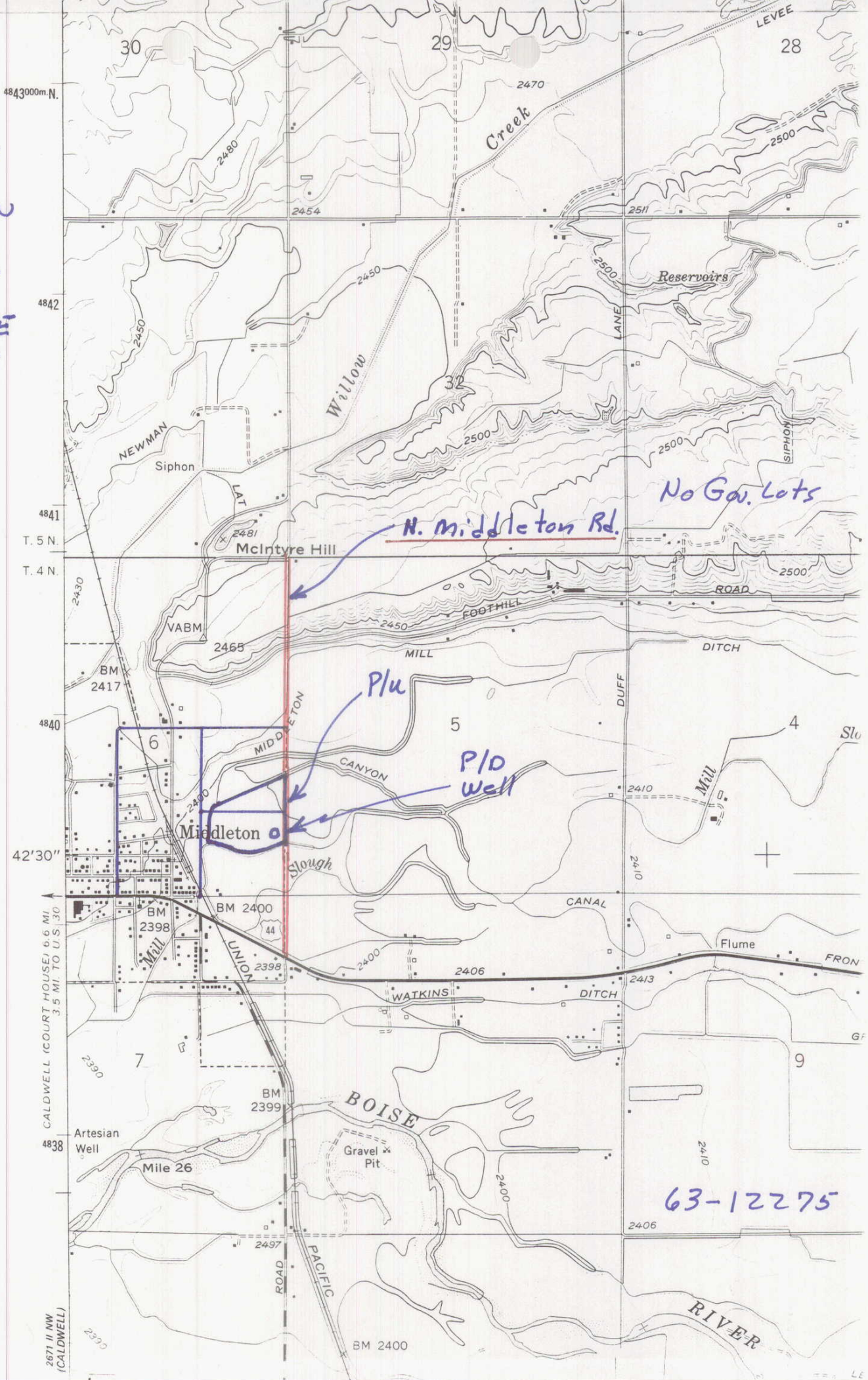
I. AUTHENTICATION

Field Examiner's Name Van Zomick Date 12-8-78

Reviewer _____ Date _____

SEAL

T4N
R2W
Sec. 6
NESE
SESE

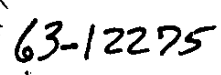


Found 6' x 8' / 2" dia. x 20'
Found 6' x 8' / 2" dia. x 30'
Found 6' x 8' / 2" dia. x 30'
Found 6' x 8' / 2" dia. x 30'
Found 6' x 8' / 2" dia. x 30'
Found 6' x 8' / 2" dia. x 30'
Found 6' x 8' / 2" dia. x 30'
Found 6' x 8' / 2" dia. x 30'
Found 6' x 8' / 2" dia. x 30'
Found 6' x 8' / 2" dia. x 30'

Property boundary line
Record data

at 17' drainage and in
unless otherwise noted
10 feet along sub
10 feet along side
10 feet on each side
5 feet on each side
17' lot line is moved
with the lot line.
Have not been installed

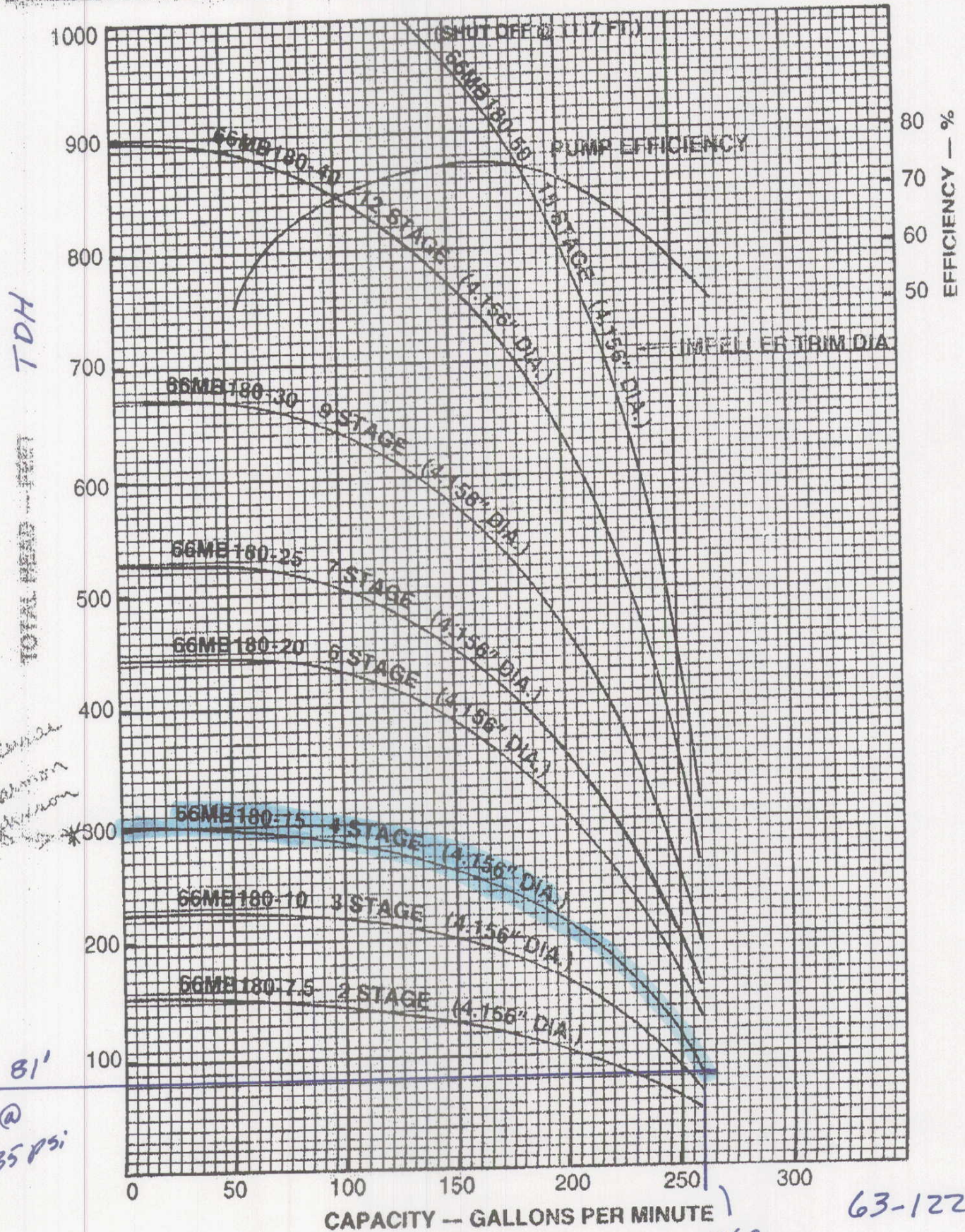
Drain Note:
Mill Slough and Little Drain are
No. 2. No permanent structures
shrubs, or other encroachments
district's exclusive drainage east
or restrict the district's ability to
drains



6MB 180 Series

AERMOTOR

6 INCH SUBMERSIBLE TURBINES Equipped with Quality Franklin Electric Motors



IDAHO DEPARTMENT OF WATER RESOURCES

WELL INSPECTION FORM

1. DRILLING PERMIT NO: 63-96-W-0075-0000 OTHER APPLICABLE NO: 63-12275

2. OWNER: Herman Johnson Phone: (208) 466-3600
Address: 912 12th Av. S, Nampa, ID 83651

3. WELL LOCATION: Twp 4N, Rge. 2W, Sec. 6, SE 1/4 SE 1/4
County Canyon (Provide sketch map and photo on reverse.)

4. DRILLER: Hiddleston Drilling Lic. No. 35
When Drilled? 3/10/96 to 3/18/96

5. WELL CONSTRUCTION:

Casing Diameter ¹²8.6 inches Water tight cap? ☒ Yes ☐ No Access Port: ☒ Yes ☐ No

Casing $\geq$ 12 inches above ground? ☒ Yes ☐ No - Describe _____

Depth of Casing 127 ft. Method Drilled Air Rotary

Condition of Well Casing: ☒ Good ☐ Fair ☐ Poor Describe _____

Control Valve? ☒ Yes ☐ No Pressure Gauge: ☒ Yes ☐ No

Condition of Piping and Valving Good

Auger to a depth of _____ ft. Evidence of Annular Seal ☒ Yes ☐ No

Are there obvious construction problems that may be a source for contamination or waste of water?
☒ Yes ☐ No (Describe in Remarks and Attach Photo - On Reverse)

6. HYDROLOGIC INFORMATION:

Depth to Static Water 0 ft. Water Temperature Cold °F

Flowing Artesian ☒ Yes ☐ No Pressure: 1 (psi)

Water Sample Taken? ☐ Yes ☒ No If yes, describe purpose _____

Water Quality Measurements/Observations (Describe) _____

7. WELL USE:

☐ Domestic	☒ Irrigation	☐ Stock
☐ Test	☐ Municipal	☐ Industrial
☐ Abandoned	☐ Waste Disposal/Injection	☐ Not Used
☐ Other: _____		

8. POSSIBLE CONTAMINATION SOURCES:

Is there evidence of Chemigation? ☐ Yes ☒ No

If yes, is there a check-valve present? ☐ Yes ☐ No

Is there a possible source of contamination nearby? ☐ Yes ☒ No

If yes, what Type? _____

How far away from the well is this source? _____

9. REMARKS:

This well is used for irrigation of the Mountain View Subdivision. The well pump operates at a high rate of flow and excess water above the water demand at any given time is discharged through a waste pipe into the nearby Mill Slough. The controls for the waste pipe operate automatically to dump excess water into the Slough.

Don Lomich Water Rights Examiner
Signature of Dept. Representative & Title

7-8-98
Inspection Date

PHOTOS, DRAWINGS, OTHER ATTACHMENTS:



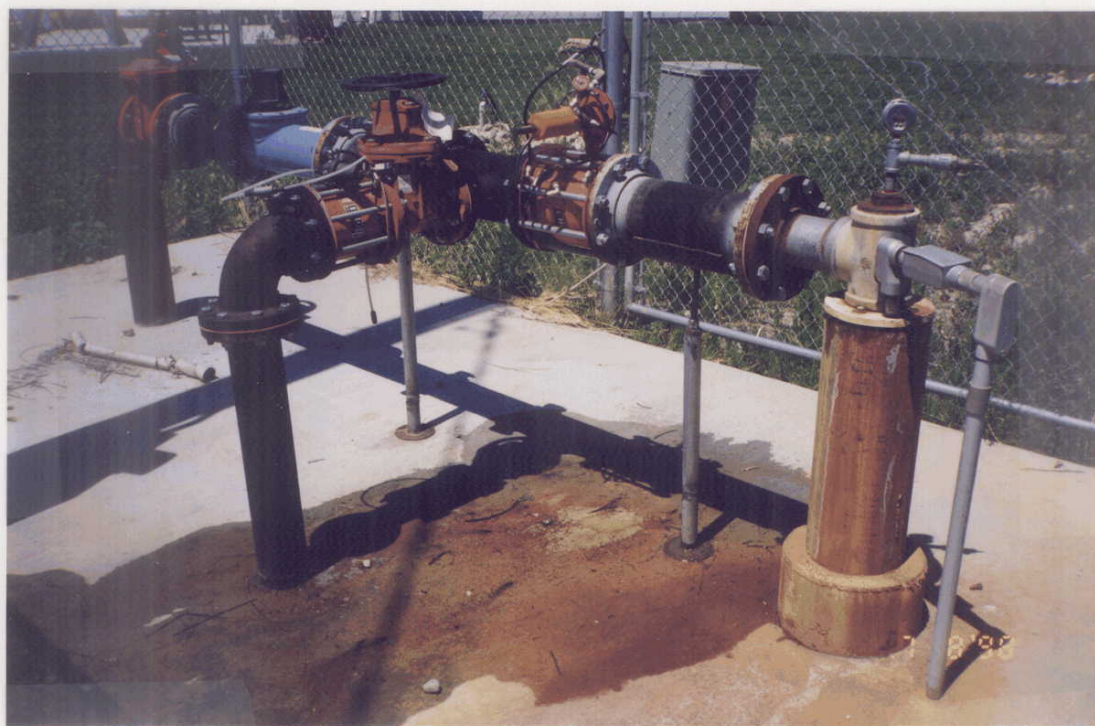
1 of 2

P/D

Well
Site.

Flow
Meter
(Blue) in
6" Service
Line.

4" Waste
Line is
at left.



P/D

Well
Site.

P/u
Homes in
Subdivision



63-12275

2 of 2

P/D, P/u

Waste Water
flow from
Cmp on
left is
from 4"
Waste Line
at well
site.

Mill Slough
in
fore ground.



P/u, P/D in
back ground.

P/u

Typical
yards
along
Mountain
Loop
Street



63-12275