



Water Systems Sizing and Selection

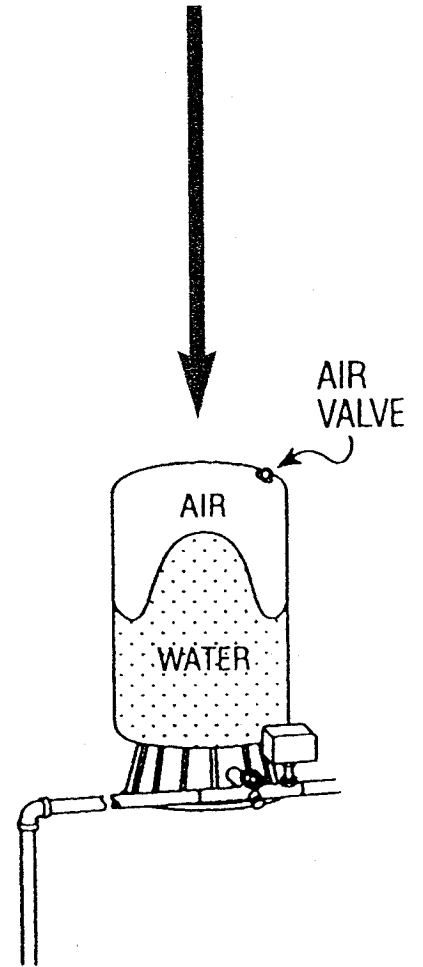
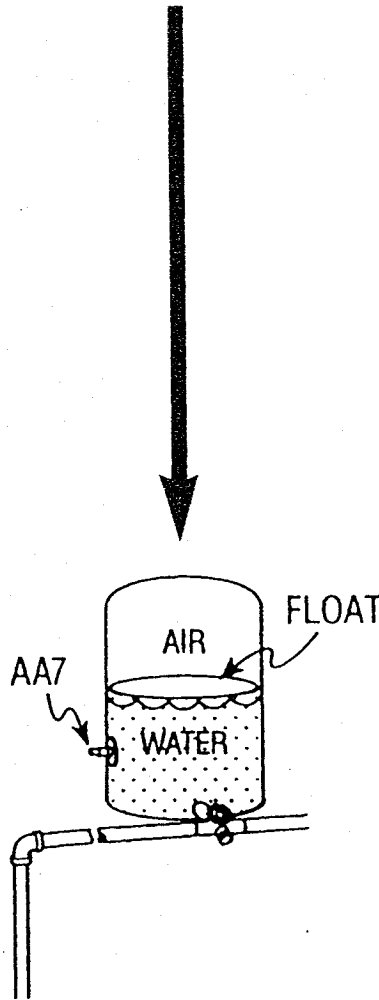
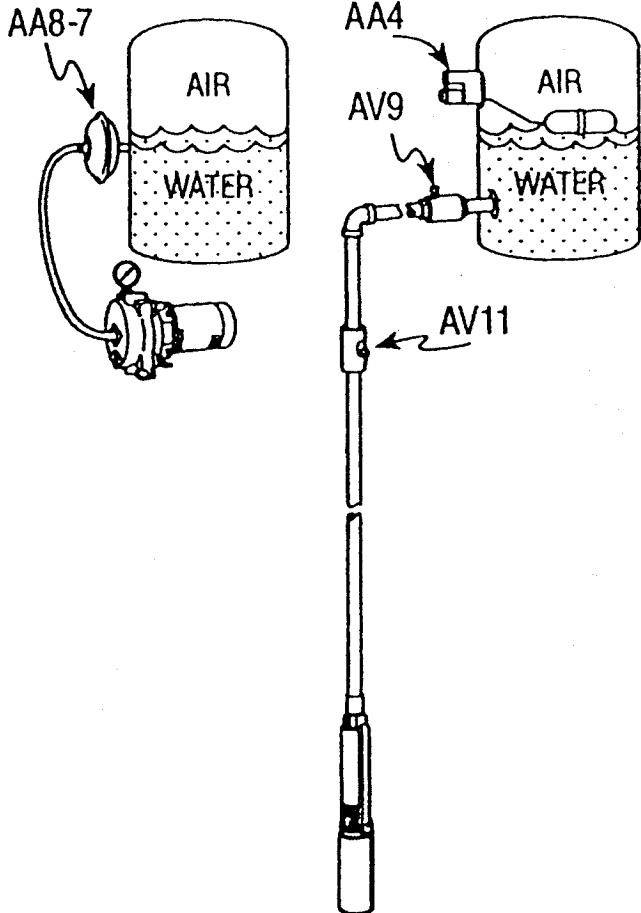
Galvanized Tank

Floating Disc

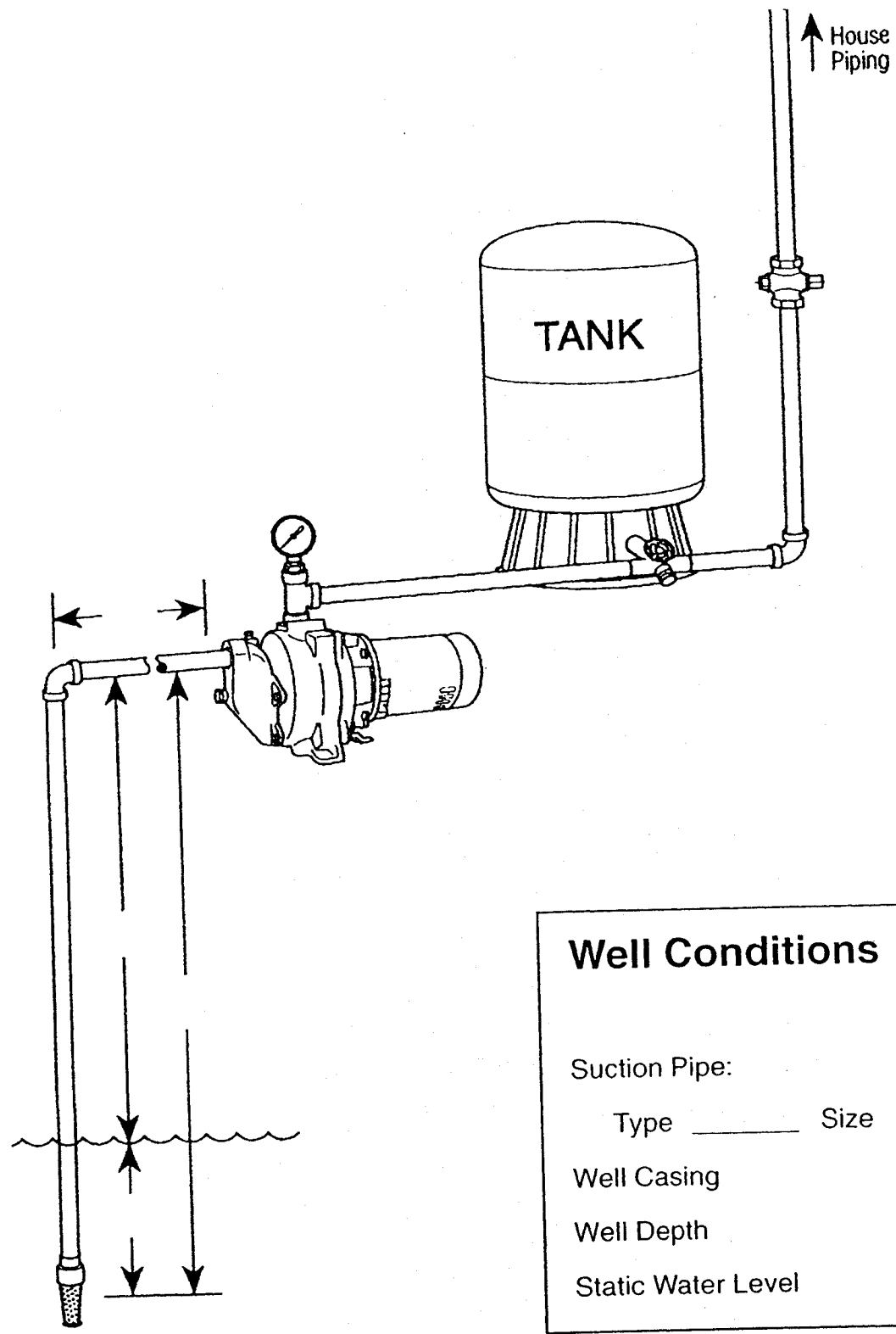
Aqua-Air

Jet

Sub



Shallow Well Jet Pump DIAGRAM



Well Conditions	
Suction Pipe:	
Type _____	Size _____
Well Casing _____	in.
Well Depth _____	ft.
Static Water Level _____	ft.



Shallow Well Jet Pump

WORKSHEET

Step 1

Capacity Needed

Fixtures:

Bathtub/Shower _____

Toilet _____

Lavatory _____

Kitchen Sink _____

Dishwasher _____

Washing Machine _____

Hose Bib _____

Other _____

TOTAL OUTLETS _____

x 1 GPM = _____ GPM

Peak Demand

No. of Outlets Being Used at Same Time _____

x 3 GPM = _____ GPM

Step 3

Pressure Needed

Pressure Switch Settings:

Cut-On _____ PSI

Cut-Off _____ PSI

(Check Max. Shut-Off PSI from Bulletin)

Tank Pressure Set @2 PSI
Less Than Cut-On = _____ PSI

Step 2

Suction Conditions

Friction Loss Calculation

90° Elbow = _____ ft.

Foot Valve = _____ ft.

Pipe = _____ ft.

TOTAL = _____ ft.

Total _____ Ft. = _____ Number of Hundred
100

x _____ Friction Loss/100 Ft. of Pipe

= _____ Ft. (Friction Loss)

Vertical Lift _____ ft.

+ Friction Loss _____ ft.

= TOTAL LIFT _____ ft.

(Max. 25 ft.)

Step 4

Selection

Pump Model _____

Shallow Well Adapter _____

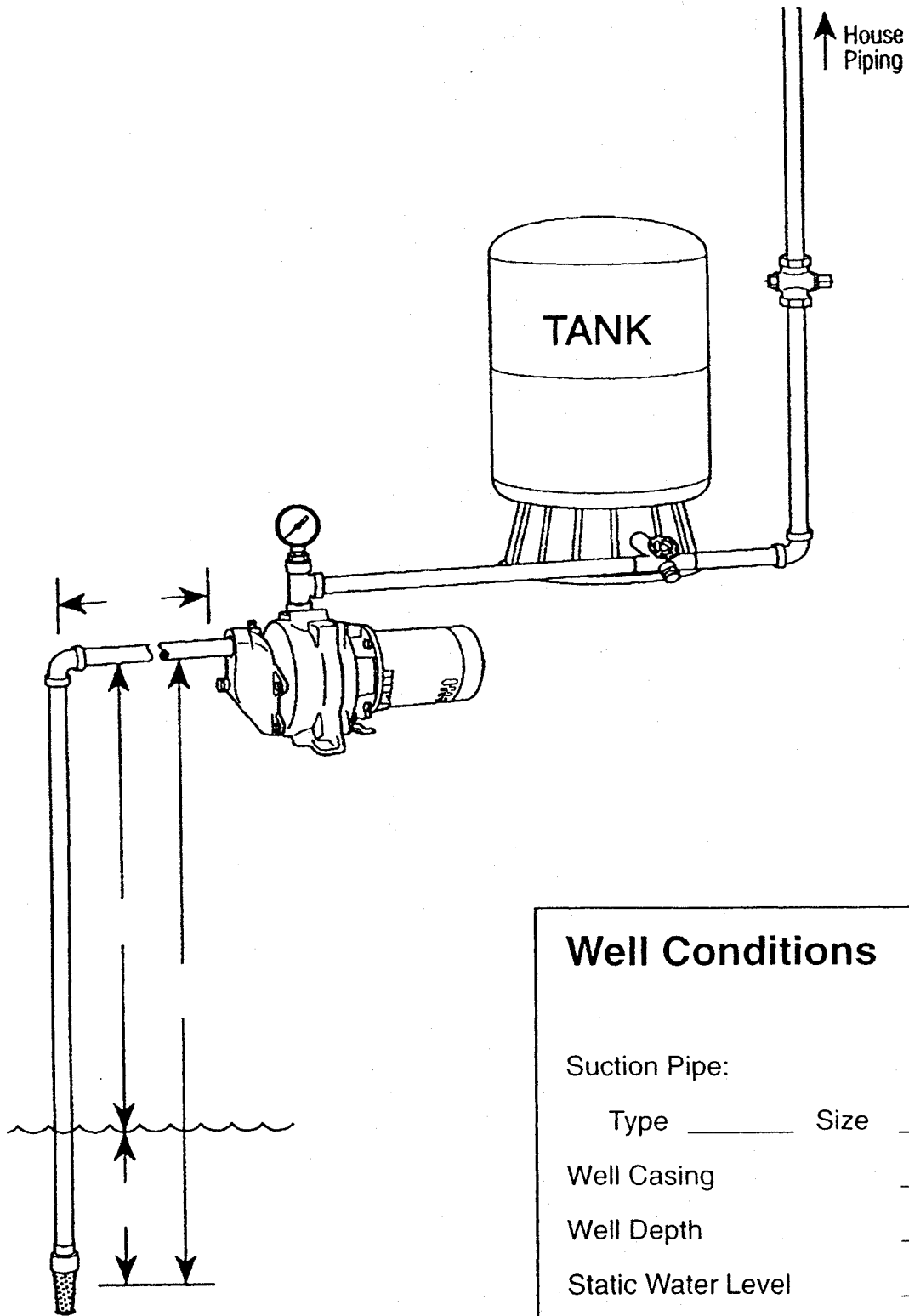
Tank _____

Alternate Pump _____



Shallow Well Jet Pump

DIAGRAM





Shallow Well Jet Pump

WORKSHEET

Step 1

Capacity Needed

Fixtures:

Bathtub/Shower _____

Toilet _____

Lavatory _____

Kitchen Sink _____

Dishwasher _____

Washing Machine _____

Hose Bib _____

Other _____

TOTAL OUTLETS _____

x 1 GPM = _____ GPM

Peak Demand

No. of Outlets Being Used at Same Time _____

x 3 GPM = _____ GPM

Step 3

Pressure Needed

Pressure Switch Settings:

Cut-On _____ PSI

Cut-Off _____ PSI

(Check Max. Shut-Off PSI from Bulletin)

Tank Pressure Set @2 PSI
Less Than Cut-On = _____ PSI

Step 2

Suction Conditions

Friction Loss Calculation

90° Elbow = _____ ft.

Foot Valve = _____ ft.

Pipe = _____ ft.

TOTAL = _____ ft.

Total _____ Ft. = _____ Number of Hundred
100

x _____ Friction Loss/100 Ft. of Pipe

= _____ Ft. (Friction Loss)

Vertical Lift _____ ft.

+ Friction Loss _____ ft.

= TOTAL LIFT _____ ft.

(Max. 25 ft.)

Step 4

Selection

Pump Model _____

Shallow Well Adapter _____

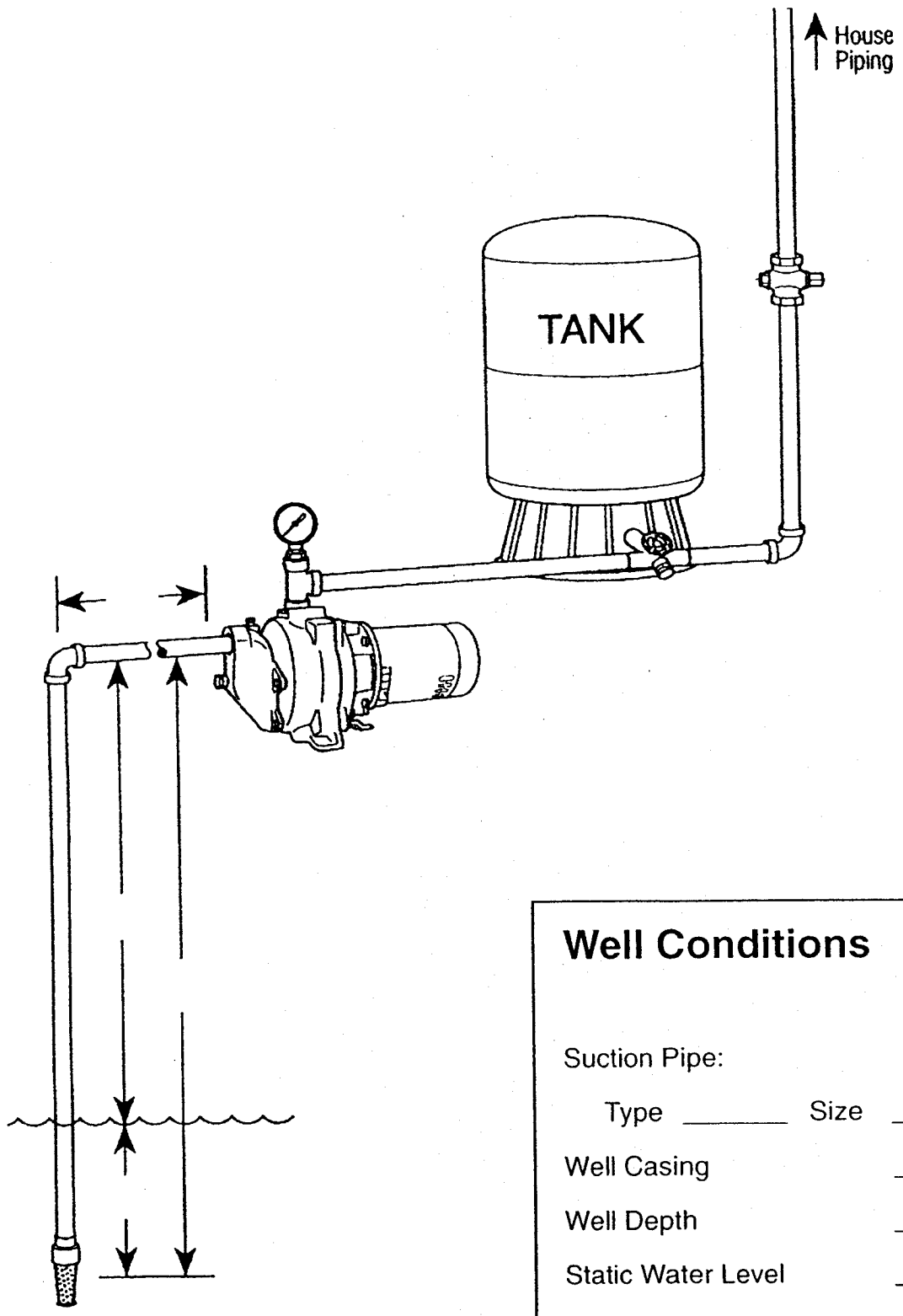
Tank _____

Alternate Pump _____



Shallow Well Jet Pump

DIAGRAM



Well Conditions

Suction Pipe:

Type _____ Size _____

Well Casing _____ in.

Well Depth _____ ft.

Static Water Level _____ ft.



Shallow Well Jet Pump

WORKSHEET

Step 1

Capacity Needed

Fixtures:

Bathtub/Shower _____

Toilet _____

Lavatory _____

Kitchen Sink _____

Dishwasher _____

Washing Machine _____

Hose Bib _____

Other _____

TOTAL OUTLETS _____

x 1 GPM = _____ GPM

Peak Demand

No. of Outlets Being
Used at Same Time _____

x 3 GPM = _____ GPM

Step 3

Pressure Needed

Pressure Switch Settings:

Cut-On _____ PSI

Cut-Off _____ PSI

(Check Max. Shut-Off PSI from Bulletin)

Tank Pressure
Set @2 PSI
Less Than Cut-On = _____ PSI

Step 2

Suction Conditions

Friction Loss Calculation

90° Elbow = _____ ft.

Foot Valve = _____ ft.

Pipe = _____ ft.

TOTAL = _____ ft.

Total _____ Ft.
_____ 100 = _____ Number of Hundred

x _____ Friction Loss/100 Ft. of Pipe

= _____ Ft. (Friction Loss)

Vertical Lift _____ ft.

+ Friction Loss _____ ft.

= TOTAL LIFT _____ ft.

(Max. 25 ft.)

Step 4

Selection

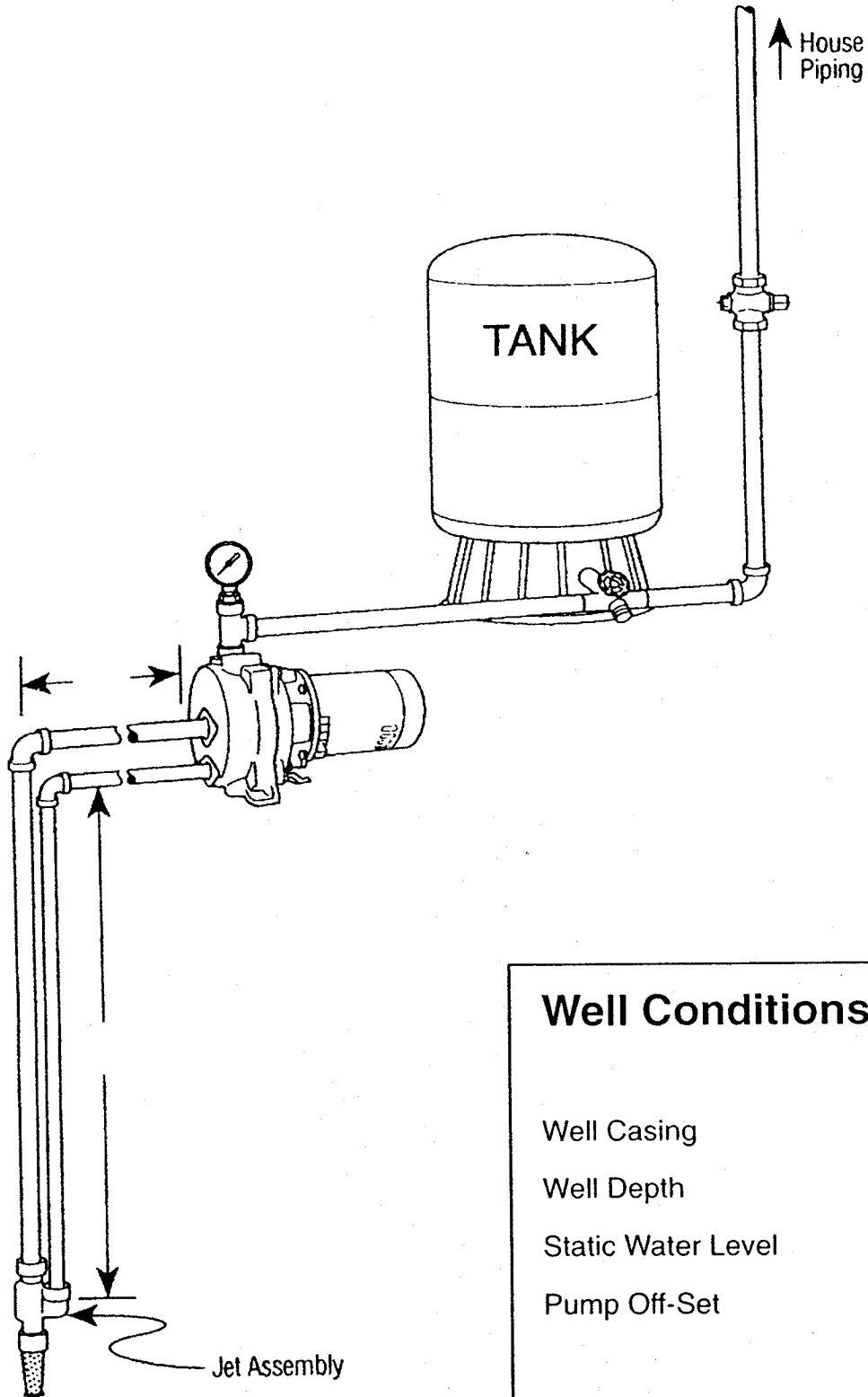
Pump Model _____

Shallow Well Adapter _____

Tank _____

Alternate Pump _____

**Deep Well
Jet Pump**
DIAGRAM



Well Conditions	
Well Casing	_____ in.
Well Depth	_____ ft.
Static Water Level	_____ ft.
Pump Off-Set	_____ ft.



Deep Well Jet Pump

WORKSHEET

Step 1

Capacity Needed

Fixtures:

Bathtub/Shower _____

Toilet _____

Lavatory _____

Kitchen Sink _____

Dishwasher _____

Washing Machine _____

Hose Bib _____

Other _____

TOTAL OUTLETS _____

x 1 GPM = _____ GPM

Peak Demand

No. of Outlets Being
Used at Same Time _____

x 3 GPM = _____ GPM

Step 2

Jet Assembly Setting _____ ft.
(See Diagram)

Step 3

Pressure Needed

Pressure Switch Settings:

Cut-On _____ PSI

Cut-Off _____ PSI

Tank Pressure

Set @ 2 PSI

Less Than Cut-On = _____ PSI

Step 4

Selection

Pump Model _____

Jet Assembly _____

Pressure Control Valve _____

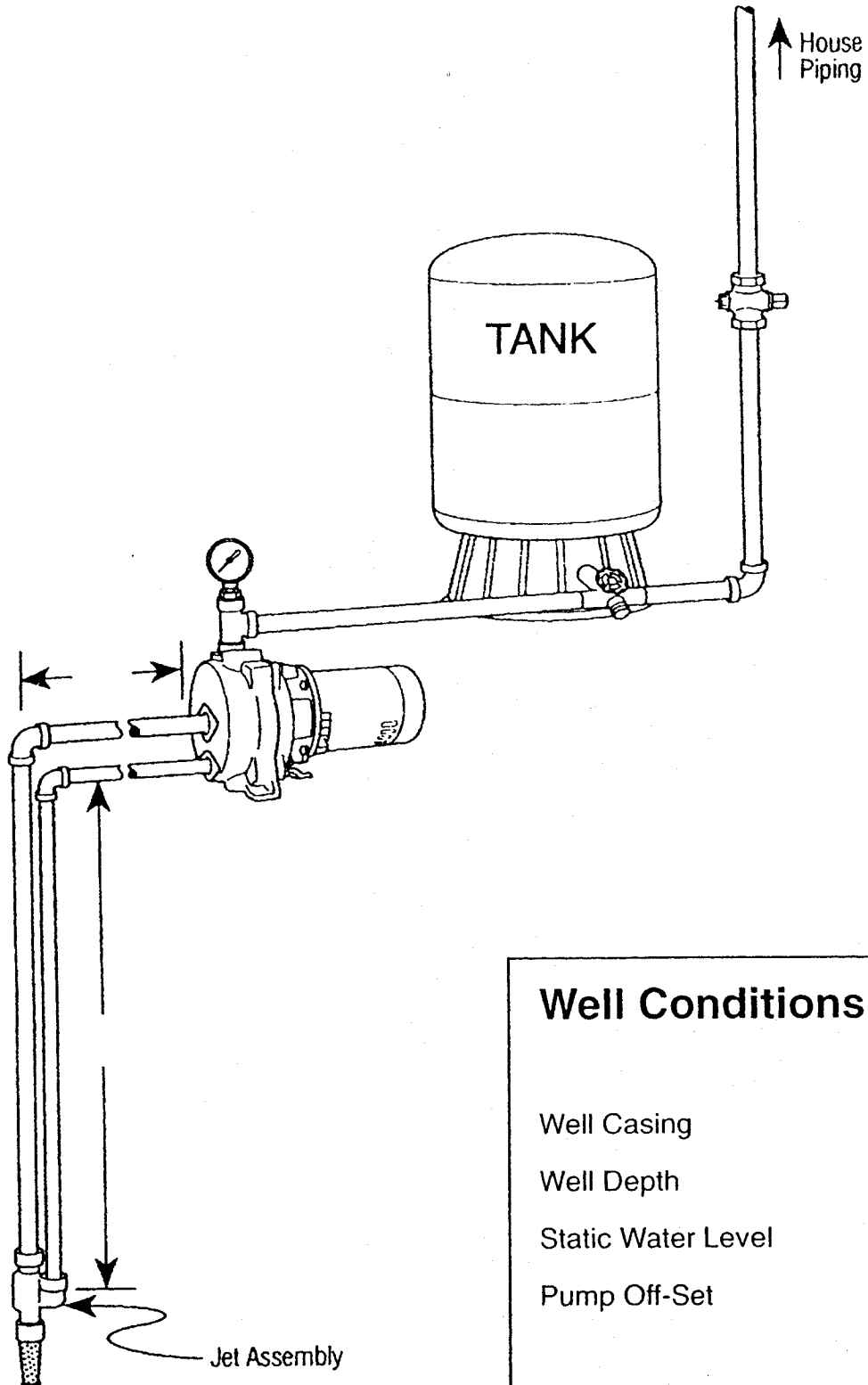
PCV Setting (PSI) _____

Tank _____



Deep Well Jet Pump

DIAGRAM



Well Conditions

Well Casing _____ in.

Well Depth _____ ft.

Static Water Level _____ ft.

Pump Off-Set _____ ft.



Deep Well Jet Pump

WORKSHEET

Step 1

Capacity Needed

Fixtures:

Bathtub/Shower _____

Toilet _____

Lavatory _____

Kitchen Sink _____

Dishwasher _____

Washing Machine _____

Hose Bib _____

Other _____

TOTAL OUTLETS _____

x 1 GPM = _____ GPM

Peak Demand

No. of Outlets Being
Used at Same Time _____

x 3 GPM = _____ GPM

Step 2

Jet Assembly Setting _____ ft.
(See Diagram)

Step 3

Pressure Needed

Pressure Switch Settings:

Cut-On _____ PSI

Cut-Off _____ PSI

Tank Pressure
Set @ 2 PSI
Less Than Cut-On = _____ PSI

Step 4

Selection

Pump Model _____

Jet Assembly _____

Pressure Control Valve _____

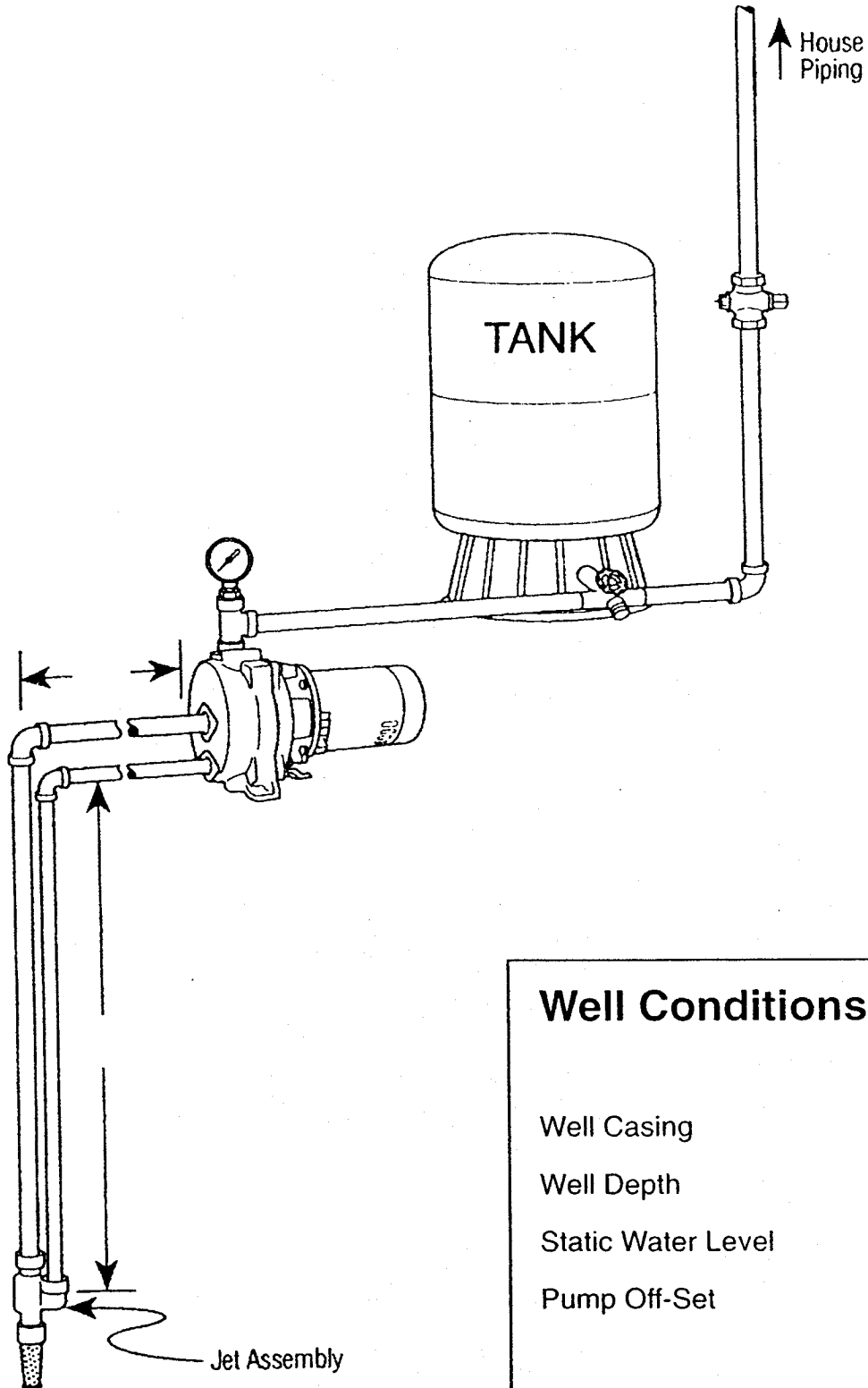
PCV Setting (PSI) _____

Tank _____



Deep Well Jet Pump

DIAGRAM



Well Conditions

Well Casing	_____ in.
Well Depth	_____ ft.
Static Water Level	_____ ft.
Pump Off-Set	_____ ft.



Deep Well Jet Pump

WORKSHEET

Step 1

Capacity Needed

Fixtures:

Bathtub/Shower _____

Toilet _____

Lavatory _____

Kitchen Sink _____

Dishwasher _____

Washing Machine _____

Hose Bib _____

Other _____

TOTAL OUTLETS _____

x 1 GPM = _____ GPM

Peak Demand

No. of Outlets Being
Used at Same Time _____

x 3 GPM = _____ GPM

Step 2

Jet Assembly Setting _____ ft.
(See Diagram)

Step 3

Pressure Needed

Pressure Switch Settings:

Cut-On _____ PSI

Cut-Off _____ PSI

Tank Pressure
Set @ 2 PSI

Less Than Cut-On = _____ PSI

Step 4

Selection

Pump Model _____

Jet Assembly _____

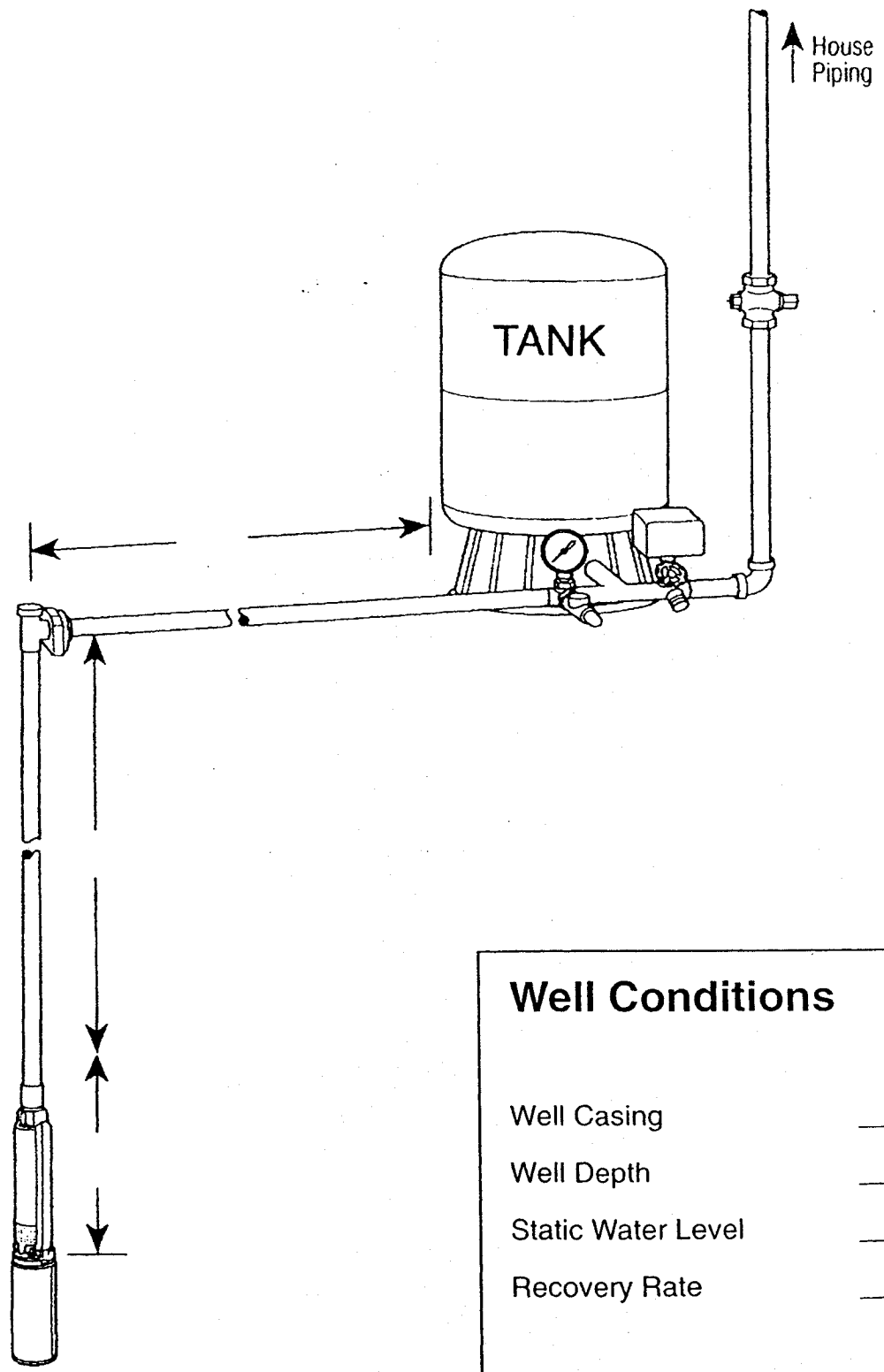
Pressure Control Valve _____

PCV Setting (PSI) _____

Tank _____

Submersible Pump

DIAGRAM



Well Conditions

Well Casing	_____ in.
Well Depth	_____ ft.
Static Water Level	_____ ft.
Recovery Rate	_____ GPM



Submersible Pump

WORKSHEET

Step 1

Capacity Needed

Fixtures:

Bathtub/Shower _____

Toilet _____

Lavatory _____

Kitchen Sink _____

Dishwasher _____

Washing Machine _____

Hose Bib _____

Other _____

TOTAL OUTLETS _____

x 1 GPM = _____ GPM

Peak Demand

No. of Outlets Being Used at Same Time _____

x 3 GPM = _____ GPM

Step 3

Pressure Needed

Pressure Switch Settings:

Cut-On _____ PSI

Cut-Off _____ PSI

(Check Max. Shut-Off PSI from Bulletin)

Tank Pressure

Set @ 2 PSI

Less Than Cut-On = _____ PSI

Electrical:

_____ Phase/_____ Volt/_____ Wire Motor

Step 2

Determine Depth To Water

_____ Check Valve = _____ ft.

Pitless Adapter = _____ ft.

Pipe (_____") = _____ ft.

TOTAL = _____ ft.

Total _____ Ft.
_____ 100 = _____ Number of Hundred

x _____ Friction Loss/100 Ft. of Pipe

= _____ Ft. (Friction Loss)

Vertical Elevation = _____ ft.

+ Friction Loss = _____ ft.

Total Head (Depth to Water) _____ ft.

Step 4

Selection

Pump Model _____

Wire Size _____

Tank _____

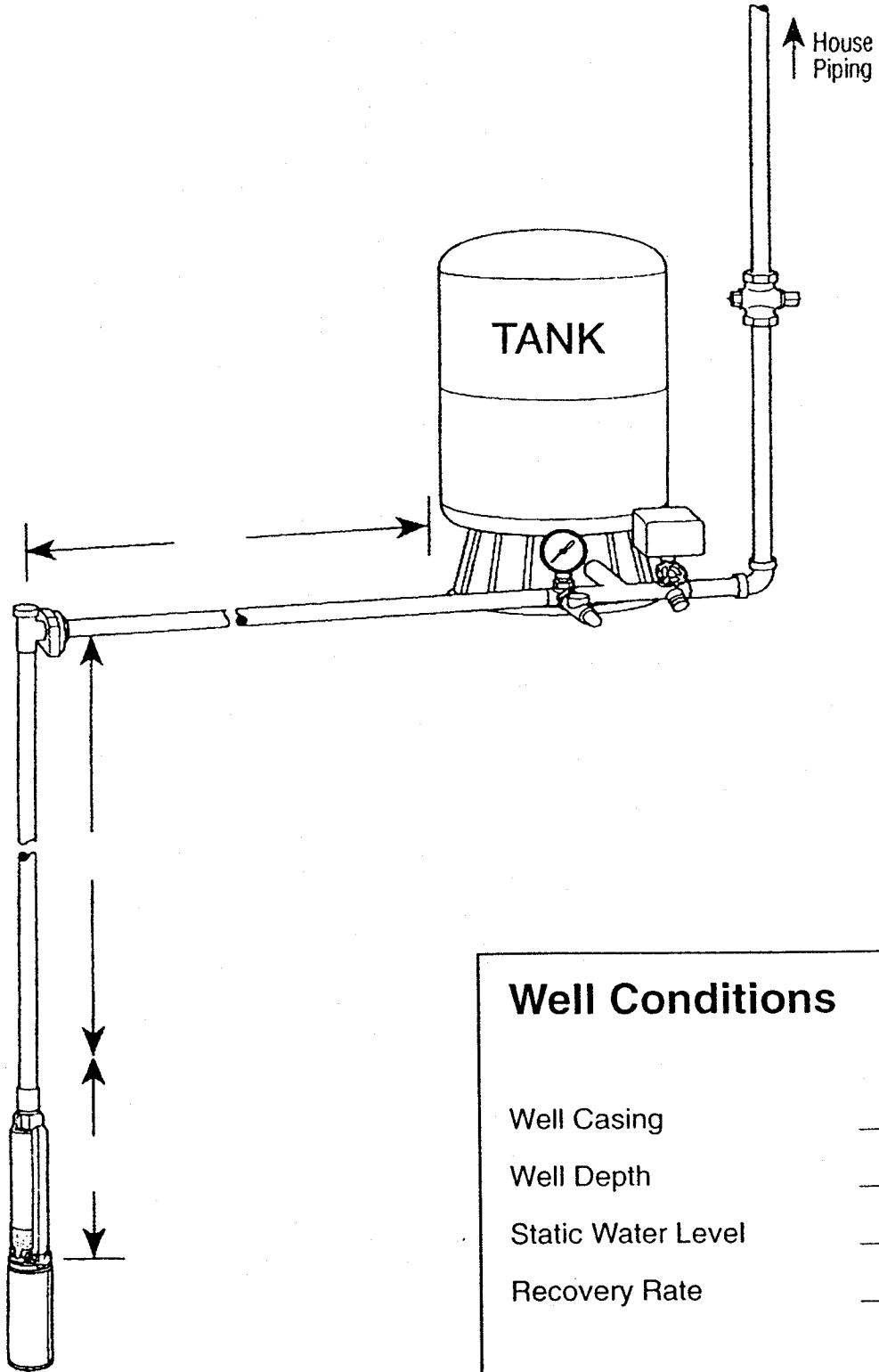
Relief Valve _____

Motor _____



Submersible Pump

DIAGRAM



Well Conditions

Well Casing	_____ in.
Well Depth	_____ ft.
Static Water Level	_____ ft.
Recovery Rate	_____ GPM

WORKSHEET

Step 1

Capacity Needed

Fixtures:

Bathtub/Shower _____

Toilet _____

Lavatory _____

Kitchen Sink _____

Dishwasher _____

Washing Machine _____

Hose Bib _____

Other _____

TOTAL OUTLETS _____

x 1 GPM = _____ GPM

Peak Demand

No. of Outlets Being Used at Same Time _____

x 3 GPM = _____ GPM

Step 3

Pressure Needed

Pressure Switch Settings:

Cut-On _____ PSI

Cut-Off _____ PSI

(Check Max. Shut-Off PSI from Bulletin)

Tank Pressure

Set @ 2 PSI

Less Than Cut-On = _____ PSI

Electrical:

_____ Phase/ _____ Volt/ _____ Wire Motor

Step 2

Determine Depth To Water

_____ Check Valve = _____ ft.

Pitless Adapter = _____ ft.

Pipe (_____") = _____ ft.

TOTAL = _____ ft.

Total _____ Ft.

 = _____ Number of Hundred

x _____ Friction Loss/100 Ft. of Pipe

= _____ Ft. (Friction Loss)

Vertical Elevation = _____ ft.

+ Friction Loss = _____ ft.

Total Head (Depth to Water) _____ ft.

Step 4

Selection

Pump Model _____

Wire Size _____

Tank _____

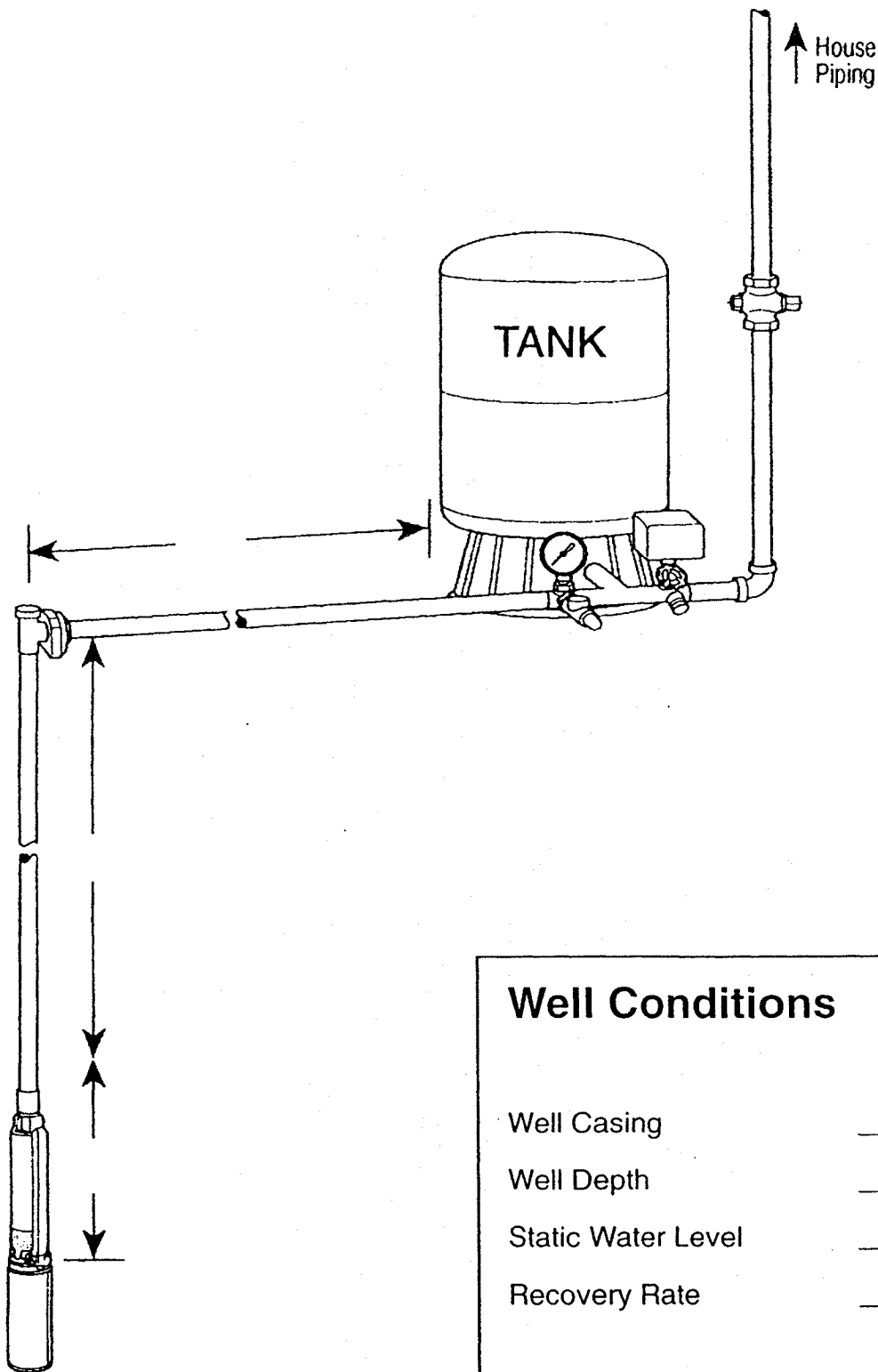
Relief Valve _____

Motor _____



Submersible Pump

DIAGRAM



Well Conditions

Well Casing	_____ in.
Well Depth	_____ ft.
Static Water Level	_____ ft.
Recovery Rate	_____ GPM



Submersible Pump

WORKSHEET

Step 1

Capacity Needed

Fixtures:

Bathtub/Shower _____

Toilet _____

Lavatory _____

Kitchen Sink _____

Dishwasher _____

Washing Machine _____

Hose Bib _____

Other _____

TOTAL OUTLETS _____

x 1 GPM = _____ GPM

Peak Demand

No. of Outlets Being Used at Same Time _____

x 3 GPM = _____ GPM

Step 3

Pressure Needed

Pressure Switch Settings:

Cut-On _____ PSI

Cut-Off _____ PSI

(Check Max. Shut-Off PSI from Bulletin)

Tank Pressure Set @ 2 PSI
Less Than Cut-On = _____ PSI

Electrical:

_____ Phase/_____ Volt/_____ Wire Motor

Step 2

Determine Depth To Water

_____ Check Valve = _____ ft.

Pitless Adapter = _____ ft.

Pipe (_____") = _____ ft.

TOTAL = _____ ft.

Total _____ Ft.
_____ 100 = _____ Number of Hundred

x _____ Friction Loss/100 Ft. of Pipe

= _____ Ft. (Friction Loss)

Vertical Elevation = _____ ft.

+ Friction Loss = _____ ft.

Total Head (Depth to Water) _____ ft.

Step 4

Selection

Pump Model _____

Wire Size _____

Tank _____

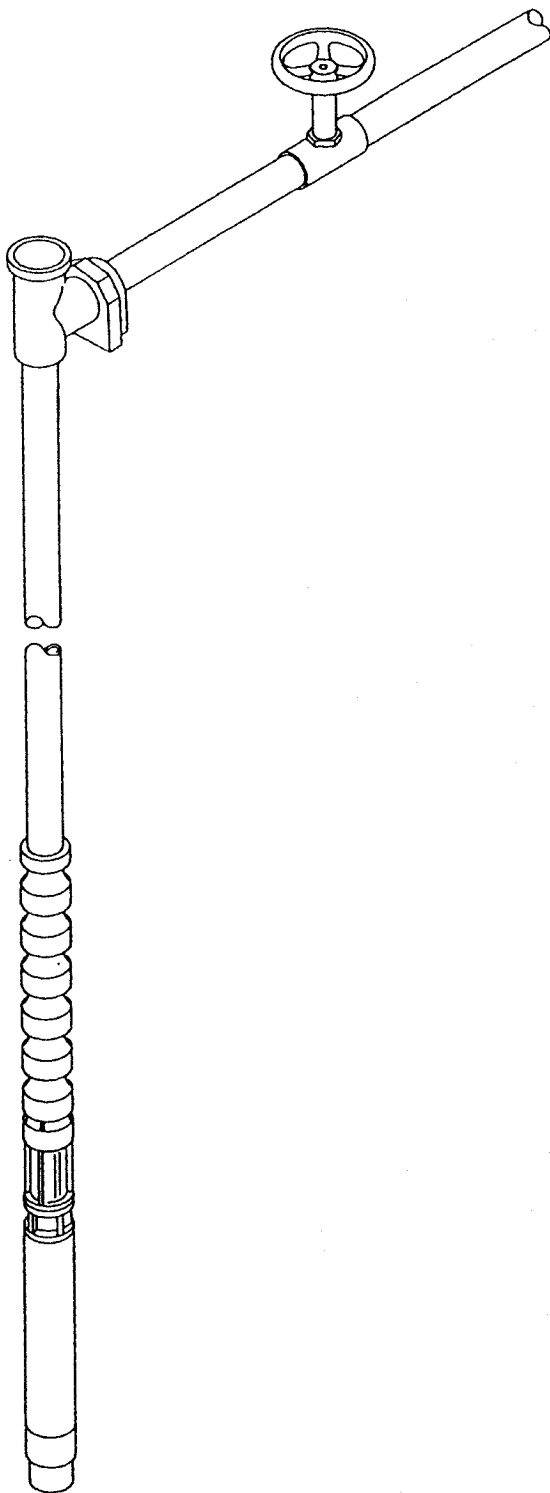
Relief Valve _____

Motor _____



Submersible Turbine Pump

WORKSHEET



_____ GPM @ _____
 _____ ' Pumping Level
 _____ " Casing
 _____ ' Wire
 _____ Phase/ _____ V.

Check Valve = _____ ft.
 Pitless Adapter/Tee = _____ ft.
 Pipe = _____ ft.
 Globe Valve = _____ ft.
 TOTAL = _____ ft.
 Round Up To = _____ ft.

_____ = Number of Hundreds
 x _____ = Loss Per Hundred Ft. of Pipe
 _____ = ft. or _____ ft. Friction Loss

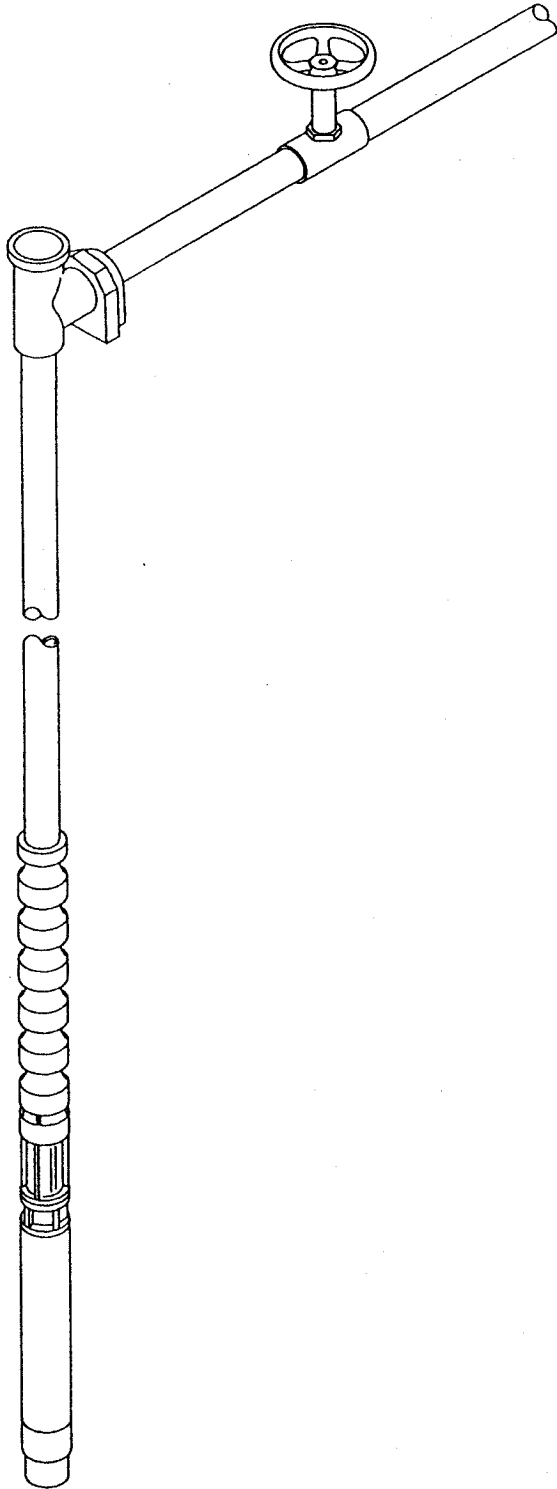
Vertical Elevation = _____ ft.
 + Friction Loss = _____ ft.
 + Pressure _____ x 2.31 ft. = _____ ft.
 Total Dynamic Head (TDH) = _____ ft.
 Required _____ GPM @ _____ ft. TDH

Pump Model _____
 Efficiency (%) _____
 Motor Number _____
 Magnetic Starter _____
 Heaters (3) _____
 Cable Size (Wire) _____



Submersible Turbine Pump

WORKSHEET



_____ GPM @ _____
 _____ ' Pumping Level
 _____ " Casing
 _____ ' Wire
 _____ Phase/ _____ V.

Check Valve = _____ ft.
 Pitless Adapter/Tee = _____ ft.
 Pipe = _____ ft.
 Globe Valve = _____ ft.
 TOTAL = _____ ft.
 Round Up To = _____ ft.

_____ = Number of Hundreds
 x _____ = Loss Per Hundred Ft. of Pipe
 _____ = ft. or _____ ft. Friction Loss

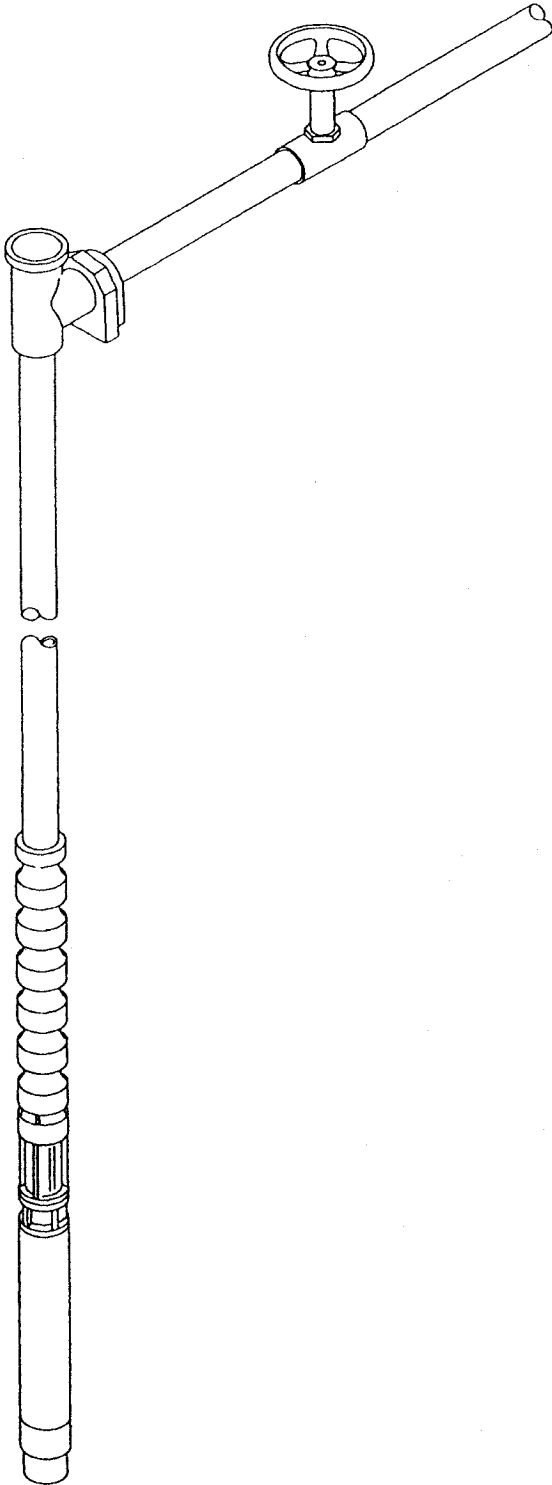
Vertical Elevation = _____ ft.
 + Friction Loss = _____ ft.
 + Pressure _____ x 2.31 ft. = _____ ft.
 Total Dynamic Head (TDH) = _____ ft.
 Required _____ GPM @ _____ ft. TDH

Pump Model _____
 Efficiency (%) _____
 Motor Number _____
 Magnetic Starter _____
 Heaters (3) _____
 Cable Size (Wire) _____



Submersible Turbine Pump

WORKSHEET



_____ GPM @ _____
 _____' Pumping Level
 _____" Casing
 _____' Wire
 _____ Phase/ _____ V.

Check Valve = _____ ft.
 Pitless Adapter/Tee = _____ ft.
 Pipe = _____ ft.
 Globe Valve = _____ ft.
 TOTAL = _____ ft.
 Round Up To = _____ ft.

_____ = Number of Hundreds
 x _____ = Loss Per Hundred Ft. of Pipe
 _____ = ft. or _____ ft. Friction Loss

Vertical Elevation = _____ ft.
 + Friction Loss = _____ ft.
 + Pressure _____ x 2.31 ft. = _____ ft.
 Total Dynamic Head (TDH) = _____ ft.
 Required _____ GPM @ _____ ft. TDH

Pump Model _____
 Efficiency (%) _____
 Motor Number _____
 Magnetic Starter _____
 Heaters (3) _____
 Cable Size (Wire) _____