9-1951

EC701 Farm Water System : Insulated Pump House

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FARM WATER SYSTEM

INSULATED PUMP HOUSE

by

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Extension Service
University of Nebraska College of Agriculture
and U. S. Department of Agriculture
Cooperating
W. V. Lambert, Director
Cross-Section of House on Platform.

Method of Removing House
Concrete Apron, size determined by position of well, minimum of 3 ft. concrete around well.

Drain, 1/2" or larger pipe and elbow.

1" Water Proof Insulation

Wall Casing With 1/2" Asphalt Collar

Hinge Bolts

Platform

Pressure Line Casing

Pump Base

Electrical Service

Tie-down holder, insert at least 4" below top of platform.

Concrete Platform Plan

Dimensions shown are for inside of house.

Pressure Pipe Casing Center

(Position of centers determined by type of pumping equipment.)

Template For Platform Construction
Front Framing

Roof - 1/4" Exterior Plywood

2" x 4" Rafter

1/4" Exterior Plywood

End Wall

Rafter

Ceiling - 1/8" Temperboard

1" x 2" Nailed To Stods

1/8" Temperboard - Wall Lining

2" x 4" End Wall Stud

Detail - Method of Fastening Ceiling

Sheet No. 4.
Detail - Method of Fastening Ceiling and Inside Wall Lining.

Roof - ¼" Exterior Plywood
Fill Insulation
2" x 4" Rafter Nailed To Side of Stud

1" x 4"

Ceiling - ⅛" Temperboard
1" x 2" Nailed To Studs
2" x 4" Nailing Block
2" x 4" Rear Wall Stud

Wall Lining - ⅛" Temperboard
Cover Inside Wall & Ceiling With Two Coats of Aluminum Paint.

Detail - Door Fasteners

1" x 3" Door Jam B
3/8" x 8" Machine Bolt - Head Cut Off

1" x 4" Corner Trim
Weather Stripping

Saw Slot
Washer
Nut
Plywood Cutting Plans
Bill of Material

Pump-house and concrete platform

Lumber
Fir - #2 or better
1 - 2 x 4 - 6'
11 - 2 x 4 - 8'
2 - 2 x 4 - 10'
1 - 2 x 6 - 2'

Pine - No. 1
5 - 1 x 4 - 8'
1 - 1 x 6 - 8'
2 - 1 x 4 - 10'

3 pcs 1/4" exterior plywood (Grade A-B) - 4' x 8'
1 pc 1/4" exterior plywood (Grade A-B) - 4' x 2'
1 pc 1/8" temperboard - 4' x 4'
1 pc 1/8" temperboard - 4' x 8'
1 pc 1/8" temperboard - 4' x 9'

12' Seal Sealer 6" wide

4 pcs Waterproof Insulation - 1" x 6" - 4'

2 - door handles
2 - 5/16" x 8" Machine Bolts
4 - 3/8" x 6" Machine Bolts
4 - 1/2" x 6" Machine Bolts

10 - 3/8" x 2 1/2 Lag Screws

2 - 8" Strap Hinges

1 - 1/4" x 1-1/4" - 16" Strap Metal

4' rubber weather stripping

10' - metal weather stripping - contact type

6 bags - fill insulation

Nails
1 1/2 lb. 10d
1 lb. 7d
1 lb. 5d

Concrete Platform.

6 bags cement
3200 lb. sand-gravel
50 ft. 3/8" reinforcing rod
2 pieces 4" x 2' drain tile or 4' - 4' fibre drain pipe
1 piece 1 1/4" - 18" galvanized pipe
1 - 1 1/4" elbow
1 - 3/4" x 4' conduit or galvanized pipe
Bill of Material

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11 - 2 x 4 - 8'
2 - 2 x 4 - 10'
1 - 2 x 6 - 2'

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1 pc 1/4" exterior plywood (Grade A-B) - 4' x 2'
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