

08PL106

**BICE & TAYLOR DRILLING CO.**1720 Evergreen Drive  
RAPID CITY, SOUTH DAKOTA 57701**RALPH TAYLOR**TELEPHONE:  
Office 348-3600  
After Hours 342-7119Dr. Allan Dewald  
Rt. 8 Box 360  
Rapid City, S.D. 57701Well Log:  
Well completed 4/30/80800' Total Depth                      Static 510'  
716' 5½" O.D. Casing                  GPM @ 760' -- 16 GPM

0-10	gravel & boulders
10-60	sandstone & shale
60-320	red & yellow sandstone
320-360	sandstone & limestone
360-620	no return
620-700	biege & white limestone
700-720	red shaley limestone
720-760	purple & red shaley sandstone
760-800	red shaley sandstone

NOTICE OF WELL CONSTRUCTION

(1) WELL CONSTRUCTION

Location of well: SE 1/4 NE 1/4 Section 12 Township 1N Range 6E  
 Well owner Allan Dewald Rapid City, S.D.  
(Name) (Address)  
 Date well drilling completed 5/2/72 Purpose of well Domestic  
(domestic, irrigation, municipal, industrial, other)

WELL LOG

Layers, top to top in feet	Description of layer	Depth to top of water producing aquifer	ft.
0' to 8'	gravel	740'	ft.
<del>8' to 355'</del>	<del>Minnetonka Sandstone</del>	570'	ft.
8' to 355'	Minnetonka Sandstone	Name of producing aquifer (if known) <u>Deadwood Sandstone</u>	
355' to 740'	Madison Limestone	Total depth of drill hole <u>785'</u>	ft.
740' to 785'	Deadwood sandstone	Depth to bottom of casing <u>362'</u>	ft.
		Casing information: In the space below show kind, size, weight, lengths per diameter, etc., for production casing and surface casing, if used. <u>362' 6", 19# steel casing</u>	
		Screen information: In the space below show length of screen below bottom of casing, diameter and kind of screen or casing perforations. <u>Open Bottom</u>	
		If a flowing well, flow of completed well _____ G.P.M.	

Attach sheet if more space is needed

Warren Hamma  
Name of Drilling Contractor

(2) PUMP INSTALLATION

Company name and size of pump Sta Rite HP 3  
 Type of pump Submersible Capacity of installed pump 11 G.P.M.  
 Depth of pump placement 630' ft., Date of pump installation 5/12/73

(3) WATER SURFACE MEASURING TUBE

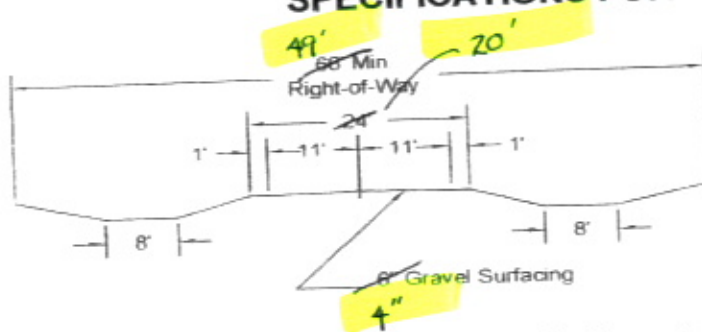
On some wells an air-tight water surface measuring tube is required: See Section 46.408 of Chapter 46.4, MINIMUM WELL CONSTRUCTION STANDARDS.

Show exact vertical length of water surface measuring tube, when installed \_\_\_\_\_ ft., tube diameter \_\_\_\_\_, tube material \_\_\_\_\_.

Warren Hamma  
Name of Pump Installation Contractor

## EXHIBIT A

### PENNINGTON COUNTY HIGHWAY DEPARTMENT SPECIFICATIONS FOR COUNTY ROADS



\* Maximum slope is 4 to 1 (current standard of the South Dakota Department of Transportation). Steeper slopes are subject to the approval of Pennington County.

The above Typical Road Section shall be followed in the construction of roads to be placed on the County Road System. Road design shall be consistent with published Standards of the American Association of State Highway Transportation Officials. Road construction materials and methods shall conform to the current published edition of the "Standard Specifications for Roads and Bridges" of the South Dakota Department of Transportation, when referenced in the standards below. A copy of these Specifications is on file at the County Highway Department Office.

The following are standards, which shall be met:

1. The minimum dedicated right-of-way width shall be sixty-six feet (66'). **49'**
2. Maximum Grade of any road or portion of road shall not exceed ten percent (12 %).
3. Maximum Degree of curvature shall not exceed twenty-one degrees (21°).
4. Crown rates shall be between 0.02 ft/ft to 0.06 ft/ft. Maximum Super elevation rate in curves shall be 0.07 ft/ft.
5. **5:1** Maximum in slope shall be 4 to 1, back slope may vary but under no condition shall it be greater than 1.1 to 1.
6. Ditches shall have a minimum depth of two feet (2).
7. Culverts shall be sized to assure proper drainage. The minimum size of culvert shall be eighteen inches (18").
8. Dead end roads shall have a cul-de-sac with a minimum constructed radius of fifty feet (50').
9. Gravel Surfacing shall meet the requirements of "Part B. Granular Bases and Surfacing" of the "Standard Specifications for Roads and Bridges".
10. Roads that have or will have 250 ADT (average daily traffic) or more should be paved.

#### STANDARDS and SPECIFICATIONS FOR ASPHALT PAVEMENT/CONCRETE PAVEMENT ROADS

1. The design of pavement shall be in compliance with "AASHTO GUIDE FOR DESIGN OF PAVEMENT STRUCTURES (Current Edition)".
2. Pavement structures shall be designed for the predicted traffic loading over a twenty-year performance period (minimum). Traffic can be represented by a number of 18-kip equivalent single axle loads (ESAL). The ESALs for the performance period represents the cumulative number from the time the roadway is opened to traffic to the time when the serviceability is reduced to a terminal value.
3. The Pavement structures shall have a minimum of six inches (6") of granular base. The Granular Base shall meet the requirements of "Part B. Granular Bases and Surfacing" of the "Standard Specifications for Roads and Bridges".