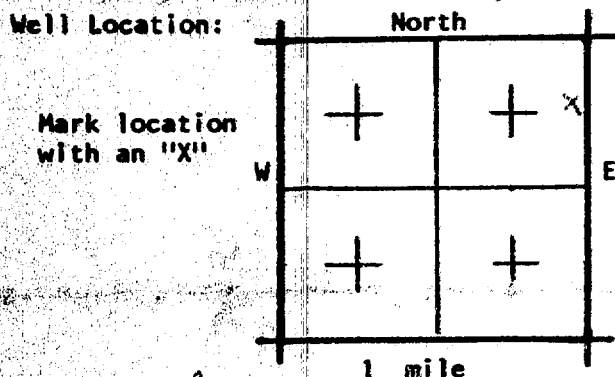


**WELL DRILLERS REPORT**  
**SOUTH DAKOTA WATER RIGHT'S COMMISSION**

4-78

Well Owner: Jon Brechtel  
Name Box 140 E 7th Ave  
Address South Dakota



County Custer Co  
± N 1/4 NE 1/4 Sec. 15 Twp. 6 S Rg. 4 E

Proposed Use:  
☒ Domestic    ☐ Municipal    ☐ Test Holes  
☐ Irrigation    ☐ Industrial    ☐ Stock

Method of Drilling:  
☐ Forward Rotary    ☐ Bored    ☐ Jetted  
☐ Reverse Rotary    ☒ Cable    ☐ Other

**Well Construction:**

Diameter of Hole 8 to 14 5/8" to 260'  
Depth 260  
Casing ☒ Steel    ☐ Concrete  
☐ Plastic    ☐ Other  
If other, specify \_\_\_\_\_

Was casing end left open NO  
Was a well screen installed NO  
Describe Well Screen  
Diameter \_\_\_\_\_ Material \_\_\_\_\_  
Slot size \_\_\_\_\_  
Was well gravel packed NO  
Was well grouted YES  
Was water sample taken NO

Remarks:

Water Level Information:  
Static water level 210 below land surface  
If flowing: closed in pressure \_\_\_\_\_ PSI  
rate of flow \_\_\_\_\_ GPM  
Controlled by:  
☐ Valve    ☐ Reducers    ☐ Other  
If other; specify \_\_\_\_\_

**Well Test Data:**

☐ Pumped  
☒ Bailed Describe: Bailed 5gpm at 260'  
☐ Other Net water at 240'  
Pumping Level Below Land Surface  
260 ft. After 1 Hrs. pumped 5 GPM  
" " " " " " " "  
" " " " " " " "

**Well Log:**

| Formation                  | Depth      |            |
|----------------------------|------------|------------|
|                            | From       | To         |
| <u>Red Clay</u>            | <u>0</u>   | <u>4</u>   |
| <u>White Sandstone</u>     | <u>4</u>   | <u>15</u>  |
| <u>Yellow &amp; Purple</u> | <u>15</u>  | <u>30</u>  |
| <u>Ironstone</u>           |            |            |
| <u>Heavy Sandstone</u>     | <u>30</u>  | <u>43</u>  |
| <u>Red White Yellow</u>    | <u>43</u>  | <u>62</u>  |
| <u>concretion</u>          |            |            |
| <u>Yellow Rock</u>         | <u>62</u>  | <u>70</u>  |
| <u>White and Yellow</u>    | <u>70</u>  | <u>80</u>  |
| <u>Yellow Sandstone</u>    | <u>80</u>  | <u>92</u>  |
| <u>Dark Red Sand</u>       | <u>92</u>  | <u>97</u>  |
| <u>Yellow Sandstone</u>    | <u>97</u>  | <u>110</u> |
| <u>Dark Brown Yellow</u>   | <u>110</u> | <u>116</u> |
| <u>concretion</u>          |            |            |

(Use Back if Necessary)  
**OVER**

Date Completed: June 30 - 79

Driller: Brechtel & Sons 319  
Driller's or Firm's Name License NO.  
Box 754 Will City  
Address  
David R. Boyd 7/13/79  
Signed By Date

Red & Yellow  
limestone with  
light grey clay 116 - 125

Red & Yellow  
limestone 125 - 140

Dark grey limestone  
+ yellow sandstone 140 - 145

Green limestone 145 - 170

Yellow sandstone 170 - 173

Yellow limestone 173 - 176

Crystalline yellow sandstone  
176 - 180

Yellow & white  
sandstone 180 - 190

Yellow sandstone 190 - 200

Green limestone  
+ shales 200 - 217

Brown limestone 217 - 220

purple shale

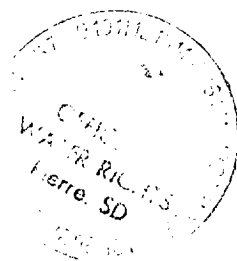
Brown & grey Red  
limestone 220 - 225

Red clay 225 - 240

White limestone 240 - 247 & 5 gpm 240'

green & grey  
limestone 247 - 253

White sandstone  
limestone 253 - 260



Well Name

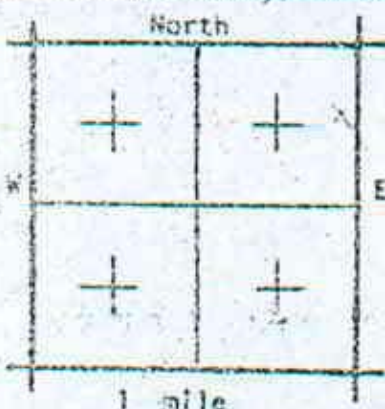
Name

Address

Box 100 E

Location:

North

Mark location  
with an "X"

County

Custer

Twp. 6 S. Rg. 4 E

Proposed Use:

☒ Domestic ☐ Municipal ☐ Test Holes  
☐ Irrigation ☐ Industrial ☐ Stock

Method of Drilling:

☒ Forward Rotary ☐ Bored ☐ Jetted  
☐ Reverse Rotary ☒ Cable ☐ Other

Construction:

Diameter of Hole 8 to 14 5/8" to 260'

Depth

Casing ☒ Steel ☐ Concrete☐ Plastic ☐ Other

If other, specify

Was casing end left open

NO

Was a well screen installed

NO

Describe Well Screen

Diameter \_\_\_\_\_ Material \_\_\_\_\_

Slot size \_\_\_\_\_

Was well gravel packed

NO

Was well grouted

YES

Was water sample taken

NO

Remarks:

Water Level Information:

Static water level 210 below land surface

If flowing: closed in pressure \_\_\_\_\_ PSI

rate of flow \_\_\_\_\_ GPM

Controlled by:

☐ Valve ☐ Reducer ☒ Other

If other; specify \_\_\_\_\_

Well Test Data:

☐ Pumped☒ Bailed

Describe:

Bailed 5 gpm

at 260'

☐ Other

N. 1/2 well at 260'

Pumping Level Below Land Surface

260 ft. After 1 Hr. pumped 5 GPM

" " " " " "

" " " " " "

Well Log:

| Formation        | From | To  |
|------------------|------|-----|
| Red Bluff        | 0    | 4   |
| White Limestone  | 4    | 15  |
| Golden's Purple  | 15   | 30  |
| Green Limestone  | 30   | 45  |
| Red White Yellow | 45   | 60  |
| Yellow Limestone | 60   | 70  |
| White and Yellow | 70   | 80  |
| Yellow Limestone | 80   | 90  |
| White and Yellow | 90   | 110 |
| Yellow Limestone | 110  | 116 |

(Use Back if Necessary)

Date Completed:

June 30 - 78

Driller:

Brachtel &amp; Son's 319

Driller's or Firm's Name License #

Box 754 Hill City

Address

David R. Brachtel 7/13/78

Signed By

Date

Greenish gray  
116 - 125  
125 - 140  
140 - 145  
145 - 170  
170 - 173

Yellow limestone 173 - 176  
Crystal yellow limestone 176 - 180  
Yellow & white sandstone 180 - 190  
Yellow sandstone 190 - 200  
Brown limestone 200 - 217  
Brown limestone 217 - 220  
Purple shale 220 - 225  
Brown & gray limestone

Red clay 225 - 240  
White limestone 240 - 247 & 59pm 240'  
Green & gray limestone 247 - 253  
White sandstone 253 - 260  
Limestone

