

RECEIVED  
AUG 11 2014  
WATER RIGHTS  
PROGRAM

Mail to: PMB 2020 DENR - Water Rights 523 E Capitol Ave Pierre, SD 57501-3182 ph. (605) 773-3352	(office use only)	
	No. <u>2729-2</u>	Hydrologic Unit <u>10120109</u>
	Basin <u>Upper Cheyenne</u>	
	Newspaper <u>Rapid City Journal</u> <u>PO Box 450</u> <u>57701 605 394-8300</u>	

## Application For Permit To Appropriate Water Within The State Of South Dakota

### Check use(s) of water:

- |   |   |  |  |
|---|---|--|--|
| <input checked="" type="checkbox"/> Municipal   | <input type="checkbox"/> Suburban Housing | <input type="checkbox"/> Recreational    | <input type="checkbox"/> Institutional   |
| <input type="checkbox"/> Rural Water System     | <input type="checkbox"/> Commercial       | <input type="checkbox"/> Fish & Wildlife | <input type="checkbox"/> Geothermal Heat |
| <input type="checkbox"/> Domestic (over 18 gpm) | <input type="checkbox"/> Industrial       | <input type="checkbox"/> Other           |  |

- Type of Application: (check one)
- New     Vested Right (Use predates Mar 2, 1955)     Future Use Reservation
- Place to Beneficial Use Water Reserved by Future Use Permit No. \_\_\_\_\_
- Amendment/Correction to Permit No. \_\_\_\_\_

Description of amendment/correction: (i.e. change diversion point(s), add diversion point(s), change use, etc.)

1. Name to Appear on Water Permit Town of Keystone

(check one)  Owner     Tenant/lessee     Owner's Legal Agent

(name and complete address if different than above name)

Mailing Address PO Box 689 Keystone SD 57751

(Address) (City) (State) (Zip Code)

Home Phone 605-666-4827 Cell \_\_\_\_\_ Email \_\_\_\_\_

2. Amount of water claimed 0.156 \*CFS or 70 \*\*GPM \_\_\_\_\_ \*\*\*AF

(\*Cubic Feet per Second) (\*\*Gallons per Minute) (\*\*\*)Acres Feet - storage capacity of dam/dugout or annual use if applicable)

3. Source of water supply Hard rock fracture

4. Location of point of diversion NW NE 1/4 SW 1/4 section 4 T2S R6E County Pennington

(example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W)

If not a public water supply (e.g. municipal), will water be used outside of the area described above?  Yes  No

If "Yes," where will water be used? \_\_\_\_\_

(example - NW1/4 section 12-T104N-R53W)

5. County or counties where water will be used Pennington

6. Annual period during which water is to be used Year-round Jan 1 - Dec 31

7. Give a description of the project. When available include any preliminary engineering report or other reports or information that will help explain the project. (Attach sheet if more space is needed)

New well for domestic supply.

I, David Colloid, the applicant, certify that I have read this application, have examined the attached map, and that the matters stated are true.

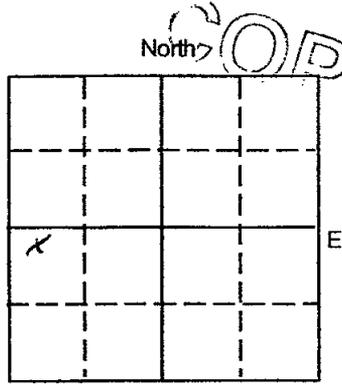
Attachments: Attach Form 2A if diversion is from a well or dugout, or if storage of water is proposed. Also, attach map and any other technical information. (see instructions)

# SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location NW 1/4 SW 1/4 Sec 4 Twp 2S Rg 6E

County Pennington



Please mark well location with an "X"

Well completion Date 2/14/14

Distance to nearest potential pollution source (Septic tank, abandoned well, feed lot, etc.)

1200 ft. from nearest pollution (identify source)

**PROPOSED USE:**

- Domestic/Stock  
 Irrigation  
 Municipal  
 Industrial  
 Business  
 Institutional  
 Test Holes  
 Monitoring

**METHOD OF DRILLING:**

Rotary Down Hole Hammer

**CASING DATA:**

Other describe	<input checked="" type="checkbox"/> Steel	<input type="checkbox"/> Plastic	<input type="checkbox"/> Other	
<u>37' of 8" Sch 40 Steel</u>				
PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
LB/FT	IN	FT	FT	IN
		0	35	10
		35	300	6

**GROUTING DATA:**

Grout Type	No. of Sacks	Grout Weight	From	To
<u>Portland</u>	<u>18</u>	Lb/gal	<u>35</u> Ft	<u>0</u> Ft
Describe grouting procedure				
<u>thru trim pipe</u>				

**SCREEN:**

Perforated pipe     Manufactured  
 Diameter \_\_\_\_\_ Inches    Length \_\_\_\_\_ Feet  
 Material \_\_\_\_\_  
 Slot Size \_\_\_\_\_ Set From \_\_\_\_\_ Feet to \_\_\_\_\_ Feet  
 Other information \_\_\_\_\_

**PACKER OR SEAL USED?**

Yes     No  
 If so, what material? \_\_\_\_\_  
 Describe packer(s) and location \_\_\_\_\_

**DISINFECTION:**

Was well disinfected upon completion?  
 Yes, How? with chlorine sol.  
 No, Why Not? \_\_\_\_\_  
 Lab sample sent to for water quality analysis \_\_\_\_\_

Well Owner:

Business Name: City of Keystone  
 Address: PO Box 6891  
 City, State, Zip: Keystone, SD 57751

**WELL LOG:**

FORMATION	DEPTH	
	FROM	TO
<u>Drift</u>	<u>0</u>	<u>30</u>
<u>Hd grey brown schist</u>	<u>30</u>	<u>48</u>
<u>Brn schist fract. 10 gpm</u>	<u>48</u>	<u>54</u>
<u>Hd grey brn schist</u>	<u>54</u>	<u>64</u>
<u>Brn schist fract. 15 gpm</u>	<u>64</u>	<u>66</u>
<u>Hd grey schist</u>	<u>66</u>	<u>112</u>
<u>Grey schist fract. 20 gpm</u>	<u>112</u>	<u>114</u>
<u>Hd grey schist</u>	<u>114</u>	<u>150</u>
<u>Broken, white, punky schist 35 gpm</u>	<u>150</u>	<u>155</u>
<u>Hd Hd grey schist</u>	<u>155</u>	<u>182</u>
<u>Grey schist fract. 40 gpm</u>	<u>182</u>	<u>185</u>
<u>Hd grey schist</u>	<u>185</u>	<u>215</u>
<u>Hd grey schist 45 gpm</u>	<u>215</u>	<u>218</u>
<u>Hd grey schist</u>	<u>218</u>	<u>245</u>
<u>Hd grey schist 50 gpm</u>	<u>245</u>	<u>247</u>
<u>Hd grey schist</u>	<u>247</u>	<u>253</u>
<u>Hd grey schist fract. 60 gpm</u>	<u>253</u>	<u>255</u>
<u>Hd grey schist</u>	<u>255</u>	<u>282</u>

**STATIC WATER LEVEL**

15 FEET *cont below (remarks)*

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

GPM flow 65 through \_\_\_\_\_ Inch pipe

Controlled by  Valve  Reducers  Other \_\_\_\_\_

Reduced flow rate \_\_\_\_\_ GPM

Can well be completely shut in? \_\_\_\_\_

**WELL TEST DATA:**

Pumped Describe: w/air  
 Bailed  
 Other \_\_\_\_\_  
 Pumping Level Below Land Surface  
 \_\_\_\_\_ Ft. After \_\_\_\_\_ Hrs. pumped \_\_\_\_\_ GPM  
 \_\_\_\_\_ Ft. After \_\_\_\_\_ Hrs. pumped \_\_\_\_\_ GPM  
 If pump installed, pump rate: \_\_\_\_\_ GPM

**REMARKS**

Form cont. -  
Grey schist fract 65 gpm. 282-284  
Hd grey schist 284-300

This well was drilled under license # 243

And this report is true and accurate.

Drilling firm: Alexander Drilling Inc.

Signature of License Representative: \_\_\_\_\_

Signature of Well Owner or Equitable Property Holder: \_\_\_\_\_

Date: \_\_\_\_\_

523 E Capitol Ave. Pierre SD 57501

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Sec 32  
T001S  
R06E

Sec 33  
T001S  
R06E

Sec 34  
T001S  
R06E

Sec 5  
T002S  
R06E

Sec 4  
T002S  
R06E

Sec 3  
T002S  
R06E

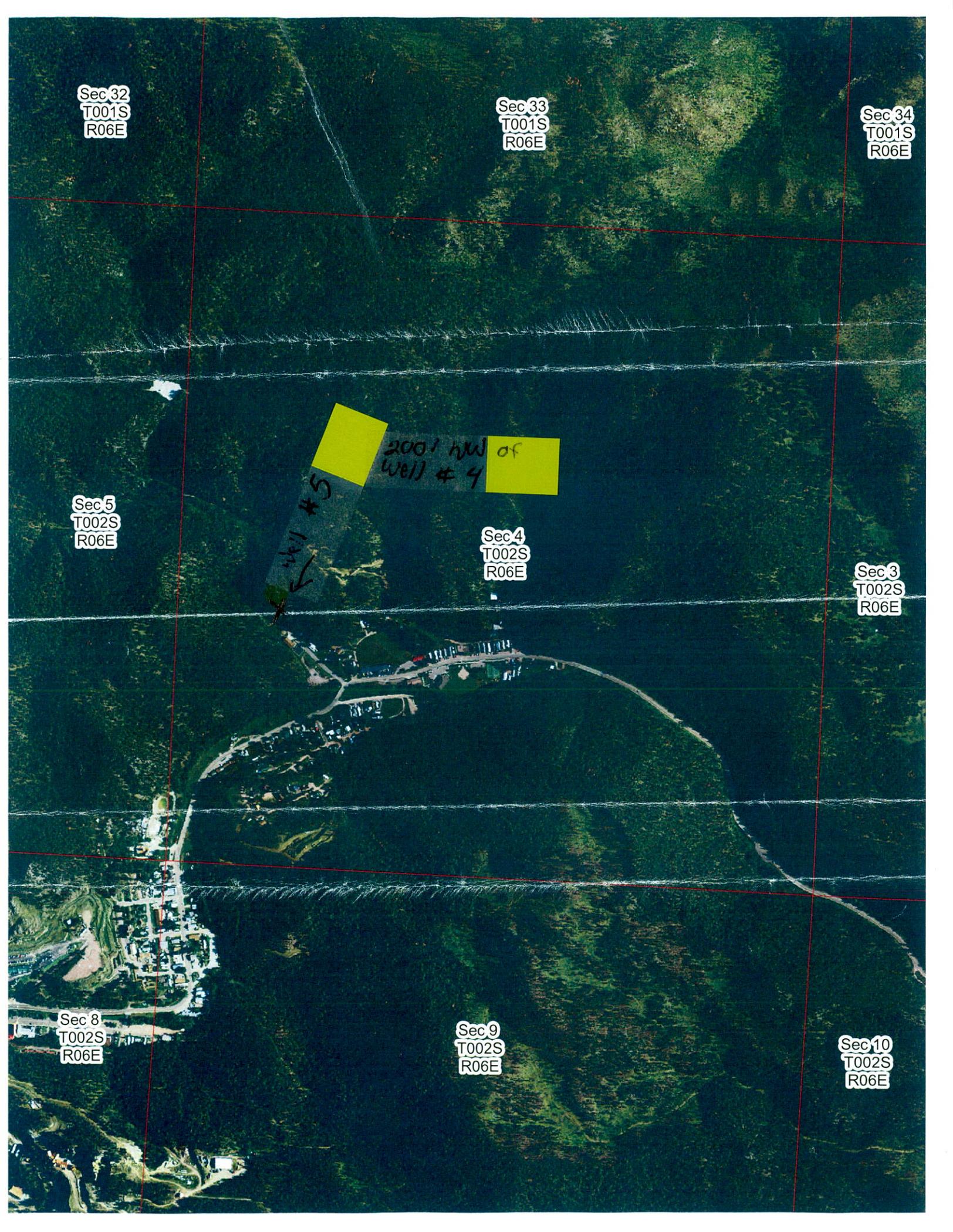
Sec 8  
T002S  
R06E

Sec 9  
T002S  
R06E

Sec 10  
T002S  
R06E

200' NW of  
Well # 4

Well # 5



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SW Corner

200' NW  
of well #4



CLARK ST

FRANKLIN ST

HARPER ST

WABASH ST

ALFORD ST

CLARK ST

COLUMBIA ST

40

