

SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

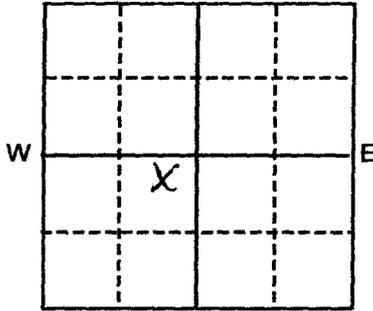
Location NE 1/4 SW 1/4 Sec 7 Twp 25 Rg 6E

Well Owner: Mt. Rushmore National Memorial
 Business Name: _____
 Address: 13000 Hwy 244, Bldg 31, Ste 1
 City, State, Zip: Keystone SD 57751

County Pennington

North

Please mark well location with an "X"



Well Completion Date

June 16, 2010



Distance to nearest potential pollution source (septic tank, abandoned well, feed lot, etc.)?
1,000.0 ft from Septic (identify source)

PROPOSED USE:

- Domestic/Stock Municipal Business Test holes
 Irrigation Industrial Institutional Monitoring well

METHOD OF DRILLING:

Rotary Downhole Hammer

CASING DATA:

Steel Plastic Other
 If other describe 40' of 8" steel sch. 40

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
LB/FT	IN	0.0 FT	38.0 FT	12.00 IN
LB/FT	IN	38.0 FT	500.0 FT	8.00 IN
LB/FT	IN	FT	FT	IN

GROUTING DATA:

Grout Type	No. of Sacks	Grout Weight	From	To
<u>Portland II</u>	<u>15</u>	Lb/gal	<u>38.0</u> Ft	<u>0.0</u> Ft
		Lb/gal	Ft	Ft

Describe grouting procedure through 1" trim pipe

SCREEN:

Perforated pipe Manufactured
 Diameter 6.00 Inches Length 460.0 Feet

Material PVC

Slot Size _____ Set From 500.0 Feet to 40.0 Feet

Other information 460' liner - 240' of perf pipe staggered from bottom

WAS A PACKER OR SEAL USED?

Yes No

If so, what material? _____

Describe packer(s) and location _____

DISINFECTION:

Was well disinfected upon completion?

Yes, How? w/chlorine solution

No, Why Not? _____

Lab to which water quality sample sent for analysis _____

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
Drift	0	35
Brown Punky Schist	35	77
Fracture 1 1/2 gpm	77	78
Quartz	78	90
Fracture 2 gpm	90	92
Quartz	92	108
Brown Schist Fracture 8 gpm	108	110
Brown Schist	110	125
Grey Schist /some brown	125	217

STATIC WATER LEVEL 22.0 FEET

If flowing: closed in pressure _____ PSI

GPM flow 40.0 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

See attached sheet with additional information.

RECEIVED

OCT 26 2010

WATER RIGHTS PROGRAM

This well was drilled under license # 324 and this report is true and accurate.

Drilling firm: Alexander Drilling Inc.

Signature of License Representative: _____

Lain Jewell

Signature of Well Owner or Equitable Property Holder: _____

J. Sage

Date: 10/25/2010

MT. RUSHMORE N.M.

Well Log Formation Continued

Well Owner: Mt. Rushmore

Well Completed: 6/16/10

<u>Formation</u>	<u>From</u>	<u>To</u>
Quartz Fracture 10gpm	217	220
Grey Schist	220	310
Fracture 11 gpm	310	311
Brown Schist	311	326
Fracture 17-18 gpm	326	337
Schist	337	345
Fracture 40gpm	345	355
Hard Grey Schist	355	408
Broken Brown Schist	408	415
Brown Schist	415	431
Fracture 40+ gpm	431	432
Hard Grey Schist	432	500