

SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location NW 1/4 SE 1/4 Sec 13 Twp 2N Rg 8E

Well Owner: United States Air Force

County Pennington

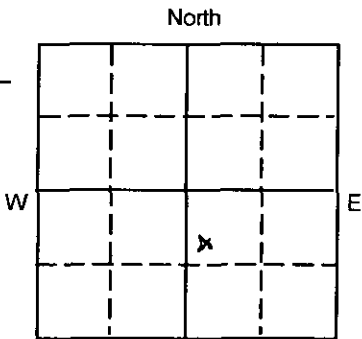
Business Name:

Address: 2103 Scott Drive

City, State, Zip: Ellsworth AFB SD 57706

MW080103

Please mark well location with an "X"



Well Completion Date

9/4/2008

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

PROPOSED USE:

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

METHOD OF DRILLING:

4.25" I.D. hollow stem auger

CASING DATA:

Steel Plastic Other

If other describe Schedule 40 pvc

Table with columns: PIPEWEIGHT, DIAMETER, FROM, TO, HOLE DIAMETER. Values include 2.00 IN, 2.8 FT, 8.0 FT, 8.50 IN.

GROUTING DATA:

Table with columns: Grout Type, No. of Sacks, Grout Weight, From, To. Values include Cement, 0.0 Ft, 5.0 Ft.

Describe grouting procedure Mixed and tremied.

SCREEN:

Perforated pipe Manufactured, Diameter 2.00 Inches, Length 15.0 Feet, Material Schedule 40 pvc, Slot Size 0.010" Set From 8.0 Feet to 23.0 Feet

WAS A PACKER OR SEAL USED? Yes No

If so, what material? 3/8" bentonite pellets

Describe packer(s) and location Hydrated bentonite from 5' to 7'.

DISINFECTION: Was well disinfected upon completion?

- Yes, How? No, Why Not?

Lab sample sent to for water quality analysis Monitoring Well

WELL LOG: MW080103. Table with columns: FORMATION, DEPTH (FROM, TO). Entry: See attached drilling log for SB080109.

STATIC WATER LEVEL 14.3 FEET

If flowing: closed in pressure PSI

GPM flow through Inch pipe

Controlled by Valve Reducers Other

Reduced flow rate GPM

Can well be completely shut in?

WELL TEST DATA:

Pumped Describe: Unknown

Bailed

Other

Pumping Level Below Land Surface

Ft. After Hrs. pumped GPM

Ft. After Hrs. pumped GPM

If pump installed, pump rate: GPM

REMARKS

RECEIVED

SEP 18 2008

WATER RIGHTS PROGRAM

This well was drilled under license # 678

And this report is true and accurate.

Drilling firm: American Engineering Testing, Inc.

Signature of License Representative:

Byron L. Schulz

Signature of Well Owner or Equitable Property Holder:

Signature

Date: 9/15/08

HTRW DRILLING LOG

(CONTINUATION SHEET)

HOLE NUMBER

58080109

SHEET

2

OF

3 SHEETS

PROJECT

Ellsworth AFB/ACC 4-Base ABC

INSPECTOR

Joe Odegaard

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	GEOTECH SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
		Grass surface					
	1	Silt (ML), brown, some rootlets, trace gravel, dry	SS = 0.1				0-4' K = 26" / 48"
	2	Silty clay (CL), grayish brown, white crystals, mod. plast., dry, trace rootlets	SS = 0				
	3						
	A	Same as above					
	5		SS = 0				4-9'
	6						R = 60" / 60"
	7						
	8	trace gravel 8-9', moist	SS = 0				
	9						
	10	clay and shale (CH), brown and stained gray, highly fractured, trace gravel, high plast., moist	SS = 79				9-14' R = 60" / 60" petroleum odor
	11						
	12						
	13	wkt at 13'-13.5'	SS = 42				
	14						
	15	shale (CH), dark gray with gray staining, highly fractured, high plast., wet 14-18/17' J10	SS = 498				14-19' R = 46" / 60"
	16						
	17						
	18	brown and dark gray 17'-18', moist J10	SS = 232				
	19	Same as above					
	20						19-24'

PROJECT

Ellsworth AFB/ACC 4-Base ABC

HOLE NO.

58080109

DRILLING LOG

PROJECT		INSPECTOR					HOLE NO.	
Ellsworth AFB / ACC 4-Base PBC		<i>Joe Odegard</i>					B080109	
ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS d.	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO. f.	BLOW COUNTS g.	REMARKS h.	
	21	Shale (CH), dark, some brown, moderately fractured, high plast., wet 20-22'	SS = 4.2				R = 52" / 40"	
	22							
	23	moist 22-23', less fractures	SS = 0.2					
	24	End of boring at 24'						
	25	Place mw080103						