

SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

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

Well Owner: United States Air Force

County Pennington

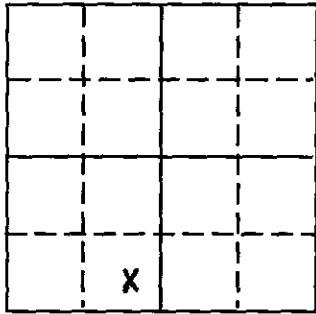
Business Name:

Address: 2103 Scott Drive

City, State, Zip: Ellsworth AFB SD 57706

MW080402

Please mark well location with an "X"



Well Completion Date

5/20/2008

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 (checked)

METHOD OF DRILLING:

4.25" I. D. hollow stem auger

CASING DATA:

Schedule 40 pvc, Steel, Plastic, Other (checked)

Table with columns: PIPEWEIGHT (LB/FT), DIAMETER (IN), FROM (FT), TO (FT), HOLE DIAMETER (IN). Values: 2.00 IN, +2.8 FT, 27.0 FT, 8.50 IN.

GROUTING DATA:

Table with columns: Grout Type, No. of Sacks, Grout Weight (Lb/gal), From (Ft), To (Ft). Values: Cement, 0.0 Ft, 23.0 Ft.

Describe grouting procedure

Mixed and tremied with grout pump.

SCREEN:

Perforated pipe, Manufactured (checked), Diameter 2.00 Inches, Length 5.0 Feet

Material Schedule 40 pvc

Slot Size 0.010" Set From 27.0 Feet to 32.0 Feet

Other information No. 16-30 silica sand from 25' to 32'.

WAS A PACKER OR SEAL USED?

Yes (checked), No

If so, what material? Describe packer(s) and location

3/8" bentonite pellets Hydrated bentonite from 23' to 25'.

DISINFECTION: Was well disinfected upon completion?

- Yes, How?, No, Why Not? (checked)

Lab sample sent to for water quality analysis

Monitoring well

WELL LOG: MW080402

Table with columns: FORMATION, DEPTH (FROM, TO). Entry: See attached drilling log for SB080402.

STATIC WATER LEVEL 26.9 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? Wellhead was completed with 4"x4" steel protop.

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:

Signature of Byron T. Schulz

Signature of Well Owner or Equitable Property Holder:

Signature of J.F. [unclear]

Date: 9/15/08

9-27-08

# HTRW DRILLING LOG

(CONTINUATION SHEET)

HOLE NUMBER  
SBO80402

PROJECT  
Ellsworth AFB/ACC 4 Base PBC

INSPECTOR  
Cyril Martin

SHEET 2 OF 3 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c) Surface	FIELD SCREENING RESULTS (d)	GEOTECH SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
	1	Grassy 0-2' silty clay (CL), med stiff, moist, brown	SS = 0ppm				R = 36/48
	2	2-3' clayey silt (ML), loose, dry, light brown					
	3						
	4	4-8' clayey silt (ML), slightly cohesive, moist, light brown	SS = 0ppm				R = 48/60
	5						
	6						
	7						
	8						
	9						
	10	9-11' silty clay (CL) med stiff, moist, red	SS = 0ppm				R = 54/60
	11						
	12	11-13' clayey silt (ML), cohesive, moist, light brown					
	13						
	14	<del>13-13.5' silty sand (SM) loose, moist, multicolored</del>					
	15	14-16' clayey silt (ML) soft, moist, light brown	SS = 0ppm				R = 48/60
	16						
	17	-becoming sandy					
	18	17-18' fine-med sand (SW) loose, moist, multicolored, -becoming gravelly					
	19						
	20						

PROJECT  
Ellsworth AFB/ACC 4 Base PBC

HOLE NO.  
SBO80402

# HTRW DRILLING LOG

(CONTINUATION SHEET)

HOLE NUMBER

513080402

PROJECT

Ellsworth AFB / ACC 4 Base PDC

INSPECTOR

Cyril Martinneas

SHEET

3 OF

SHEETS

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)
	19-21	gravelly sand (SP) dense, moist, brown	SS = 0 ppm				R = 36/60
	21-21.5	clayey silt (ML) soft, moist reddish					
	21.5-22	gravelly clay (CL) stiff, moist, brown					
	22-23						
	23-24						
	24-25						
	25-26		SS = 0 ppm				R = 12/60
	26-27						- cobbles, slow advance to 28'
	27.5-28.5	clayey sand (GC), red stiff, moist-wet, brown					
	28.5-29	bits of weathered shale					
	29-34	weathered shale (CH), very stiff, moist, gray with orange staining	SS = 0 ppm				R = 60/60
	34	End of boring @ 34'					

PROJECT

Ellsworth AFB / ACC 4 Base PDC

HOLE NO.

513080402