

10-85

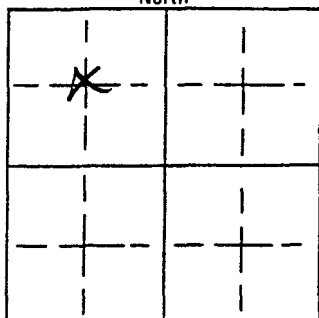
Well Owner:

County

Charles mix

Please mark well
location with
an "X"

North



1 mile

Name Charles mix Co. Hwy.

Address 126 South Third Street

Lake Andres, SD 57356

Plugging completion Date 12/28/00

EXISTING WELL



Well depth

See Attached Logs

Casing material

Sch. 40 PVC

Casing size(s)

2''

Casing condition

Good

TEST HOLE



Hole depth

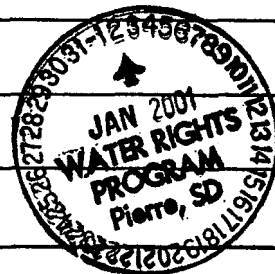
See Attached Logs

Hole size

6 1/2"

Describe plugging procedure: The wells were filled with bentonite to 1' from the surface & plugged with cement. The well covers were removed and the surface filled with like material.

Describe grout or plugging material: Bentonite, cement



Type of non-slip plug:

Bentonite

This well or test hole was plugged under license #

575

And this report is true and accurate.

Drilling firm

American Engineering Testing

Signature of Licensed Representative

Greg Mason

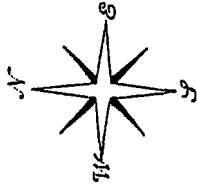
Signature of Well Owner

Date

12/29/00

10-20-11

Site Map



④ MW-2

Gravel Drive

Tank Excavation

Removed Tank

①

SB-3

MW-6

Storage Building

MW-1
②

Gravel Drive

MW-4
④

Grass

Equipment & Supplies Storage

Equipment & Supplies Storage

Environmental Technologies, Inc.		
DATE	DRAWN BY	ETI PROJECT NUMBER
11/16/99	Jan Henrich	07676.003
PROJECT DESCRIPTION		
Charles Mix County Shop 126 South Third Street Lake Andes, South Dakota		

Equipment & Supplies Storage

Figure 1

MW-5
④

SCALE
1" = 20'

ENVIRONMENTAL TECHNOLOGIES, INC.

GROUNDWATER MONITORING WELL INSTALLATION REPORT

South Dakota License Number 575 Monitoring Well Number MW-1
 Project Name Charles Mix County Project Location Lake Andes, SD
 ETI Project Number 07676.002 Installed By ETI Date Installed 04/28/99
 Method of Installation Truck mounted "Mobil" drilling rig with an 6.5 inch
outside diameter hollow-stem auger. Samples obtained in advance of the
auger's tip with a standard split-spoon sampler.

LOG OF SOIL BORING & MONITORING WELL

SOIL BORING INFORMATION			MONITORING WELL INFORMATION	
Depth in Ft.	Description	PID Reading	Ground Elevation <u>96.31 feet</u>	
0	Gravel		Top of Riser Elevation <u>96.01 feet</u>	
1			Static Water Level <u>8.23 feet</u>	
2	Black Clay	3		
3				
4		4		
5				
6				
7	Brown Clay	3		
8				
9				
10		3		
11			I.D. of Riser Pipe <u>2.0 inches</u> Type of Pipe <u>Sch. 40 PVC</u> Type of Backfill <u>Cement</u> Top of Seal Elevation <u>95.51 feet</u> Type of Seal <u>Bentonite</u>	
12	Clay & Silt Mixed with small gravel	25	Top of Filter Elevation <u>94.51 feet</u> Type of Filter Material <u>Silica Sand</u> Size of Openings <u>0.01 inches</u> Diameter of Screen Tip <u>2.0 inches</u>	
13			Bottom of Well Elevation <u>81.01 feet</u> Bottom of Boring Elevation <u>80.31 feet</u>	
14		7		
15	End of Boring			
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				

Remarks Laboratory samples for TPH as fuel oil and Naphthalene were obtained from
from the 11.5 to 13.5 foot sampling interval.

Prepared by Jim Bailey

ENVIRONMENTAL TECHNOLOGIES, INC.

GROUNDWATER MONITORING WELL INSTALLATION REPORT

South Dakota License Number 575 Monitoring Well Number MW-2
 Project Name Charles Mix County Project Location Lake Andes, SD
 ETI Project Number 07676.002 Installed By ETI Date Installed 04/28/99

Method of Installation Truck mounted "Mobil" drilling rig with an 6.5 inch outside diameter hollow-stem auger. Samples obtained in advance of the auger's tip with a standard split-spoon sampler.

LOG OF SOIL BORING & MONITORING WELL

SOIL BORING INFORMATION

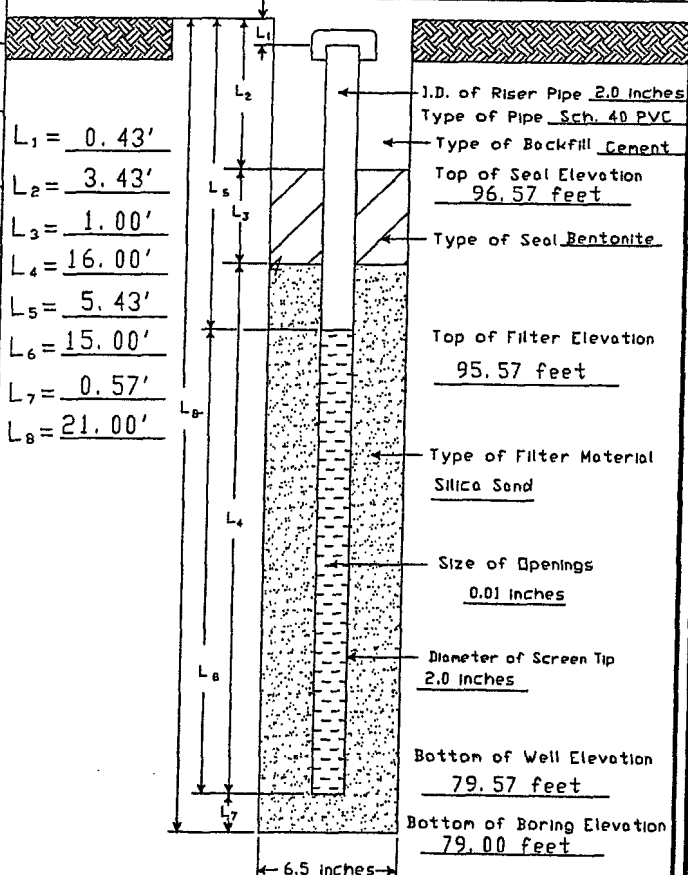
MONITORING WELL INFORMATION

Depth in Ft.	Description	PID Reading
0		
1		
2	Black Clay	2
3		
4		
5		3
6	Brown Silt	
7		3
8		
9		
10		ND
11		
12		3
13		
14	Sand	4
15		
16	Clay, Silt & Sand	3
17		
18		
19		2
20	End of Boring	
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		
31		

Ground Elevation 100.00 feet

Top of Riser Elevation 99.57 feet

Static Water Level 11.91 feet



Remarks Laboratory samples for TPH as fuel oil and Naphthalene were obtained from from the 14 to 16 foot sampling interval.

Prepared by Jim Bailey

ENVIRONMENTAL TECHNOLOGIES, INC.

GROUNDWATER MONITORING WELL INSTALLATION REPORT

South Dakota License Number 575 Monitoring Well Number MW-4
 Project Name Charles Mix County Project Location Lake Andes, SD
 ETI Project Number 07676.002 Installed By ETI Date Installed 04/29/99
 Method of Installation Truck mounted "Mobil" drilling rig with an 6.5 inch
outside diameter hollow-stem auger. Samples obtained in advance of the
auger's tip with a standard split-spoon sampler.

LOG OF SOIL BORING & MONITORING WELL

SOIL BORING INFORMATION

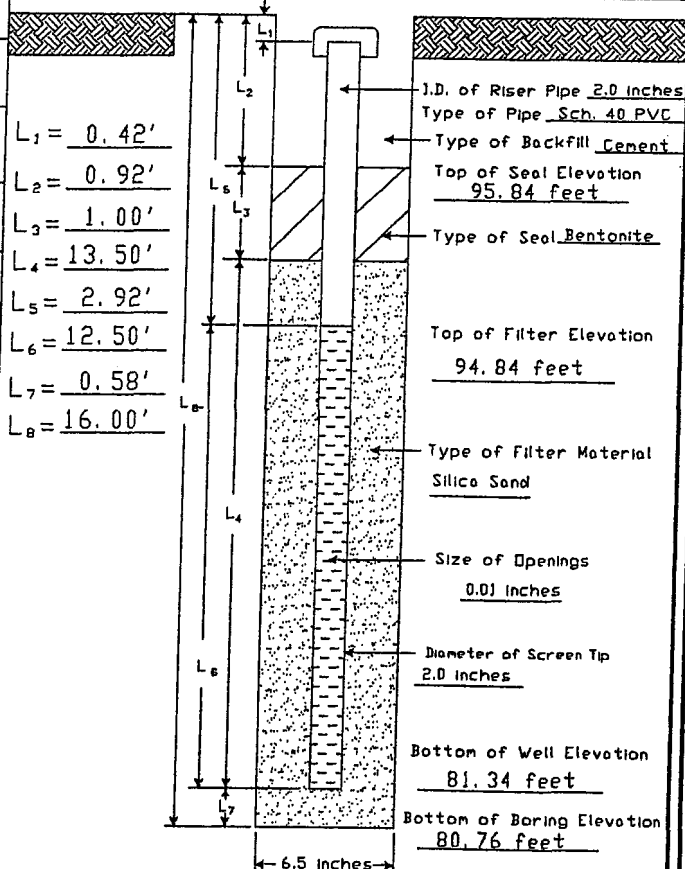
Depth in Ft.	Description	PID Reading
0		
1		
2	Black Clay	ND
3		
4		
5		
6	Brown Silt	ND
7		
8		
9		
10	Clay Silt & Sand	ND
11		
12		
13		
14		
15		
16	End of Boring	ND
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		
31		

MONITORING WELL INFORMATION

Ground Elevation 96.76 feet

Top of Riser Elevation 96.34 feet

Static Water Level 8.73 feet



Remarks Laboratory samples for TPH as fuel oil and Naphthalene were obtained from
from the 14 to 16 foot sampling interval.

Prepared by Jim Bailey

ENVIRONMENTAL TECHNOLOGIES, INC.

GROUNDWATER MONITORING WELL INSTALLATION REPORT

South Dakota License Number 575 Monitoring Well Number MW-5
 Project Name Charles Mix County Project Location Lake Andes, SD
 ETI Project Number 07676.002 Installed By ETI Date Installed 04/29/99
 Method of Installation Truck mounted "Mobil" drilling rig with an 6.5 inch
outside diameter hollow-stem auger. Samples obtained in advance of the
auger's tip with a standard split-spoon sampler.

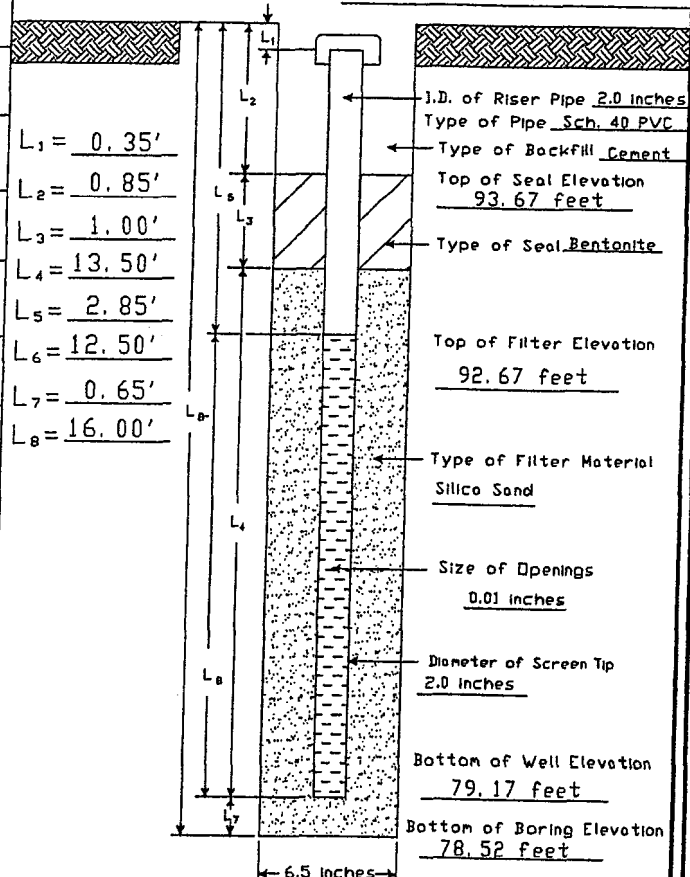
LOG OF SOIL BORING & MONITORING WELL

SOIL BORING INFORMATION

Depth in Ft.	Description	PID Reading
0		
1		
2	Black Clay	ND
3		
4		
5		
6	Brown Silt	ND
7		
8		
9		
10	Clay Silt & Sand	ND
11		
12		
13		
14		
15		
16	End of Boring	
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		
31		

MONITORING WELL INFORMATION

Ground Elevation 94.52 feet
 Top of Riser Elevation 94.17 feet
 Static Water Level 6.33 feet



Remarks Laboratory samples for TPH as fuel oil and Naphthalene were obtained from
from the 14 to 16 foot sampling interval.

Prepared by Jim Bailey

Environmental Technologies, Inc.

Groundwater Monitoring Well Installation Report

South Dakota License Number 575

Monitoring Well Number MW-6

ETI Project Number 7676.003

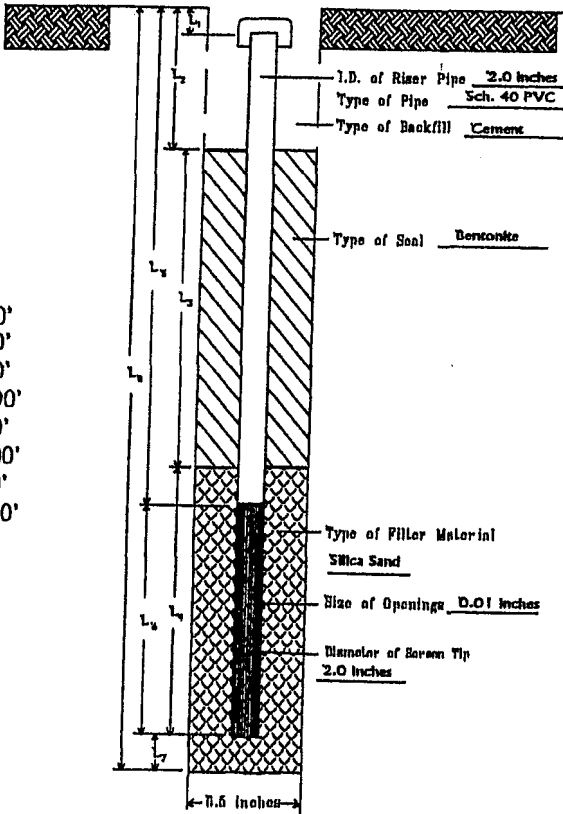
Project Name Charles Mix County Shop

Installed by ETI on 10-14-99

Project Location Lake Andes, SD

Method of Installation Truck mounted "Mobil" drilling rig with a 6.5 inch outside diameter hollow stem auger. Samples are obtained in advance of auger's tip with a standard split-spoon sampler

Log of Soil Boring & Monitoring Well

Log of Soil Boring & Monitoring Well				
Depth In Feet	Description	H*Nu Reading	Monitoring Well Information	
0	Backfill.	NS	Ground Elevation = 98.02' Top of Riser Elevation = 97.62' Static Water Level = 86.12' on 10/14/99 not fully developed Soil Sample from the 16.5-18.5' interval was sent to the laboratory for analysis.	
1				
2				
3				
4				
5				
6	Gray silty sand. Sand gravel lens at 10.5'. Diesel odor present. Wet black lens at 13'.	160		
7				
8				
9	Gray sand and gravel with silty clay lens at 15-15.5'. Diesel odor.	120		
10				
11				
12	Brown silty sand . No diesel odor.	40		
13				
14				
15	End of Bore	3		
16				
17				
18	End of Bore			L ₁ = 0.40' L ₂ = 1.00' L ₃ = 1.00' L ₄ = 15.90' L ₅ = 2.90' L ₆ = 15.00' L ₇ = 0.60' L ₈ = 18.50'
19				
20				
21				
22				
23				
24				
25				

Other Information: