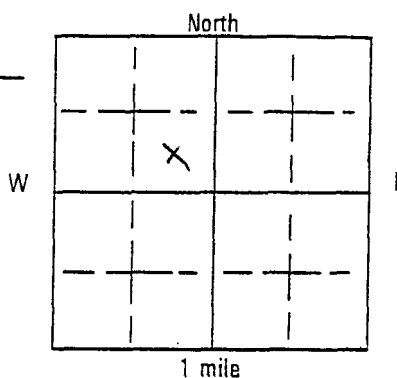


SOUTH DAKOTA WELL AND TEST HOLE PLUGGING REPORT

10-85

Location SE 1/4 NW 1/4 Sec 29 Twp 9N Rg 6E

County

ButtePlease mark well
location with
an "X"

Well Owner:

Name A&F Oil Newell

Address _____

Newell SDPlugging completion Date 12/12/00

CHECK APPROPRIATE BOX

EXISTING WELL



TEST HOLE



Well depth

See Attached Log

Hole depth

See Attached Logs

Casing material

Sch. 40 PUC

Hole size

6 1/2"

Casing size(s)

2"

Casing condition

Goodmw# 1, mw# 3, mw# 5,
mw# 6,

Describe plugging procedure:

The casings were filled with Bentonite to 1' from The Surface & Capped with Cement. The Covers were Removed and the Surface was finished with Natural Material.

Describe grout or plugging material:

Bentonite, and Sakrete 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

Signature of Licensed Representative

J. M. Malsen

Signature of Well Owner

Date

12/18/00

Environmental Technologies, Inc.

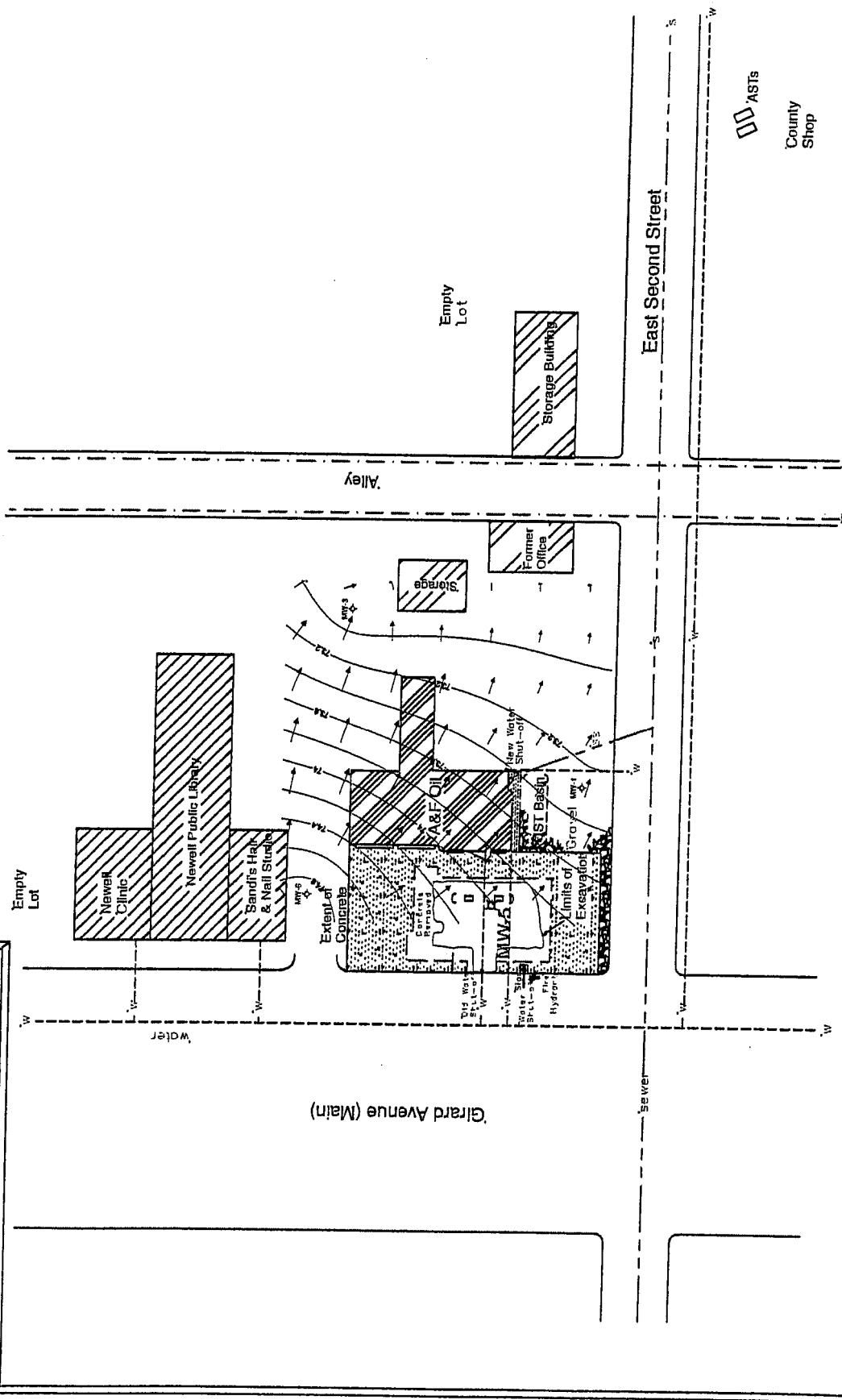
ETI Project Number
07698.004

Drawn By
Graphix

Project Description
Figure 4 - Monitor Well Locations
A&F Oil Company
Newell, South Dakota

0 50 100

Telephone
Fiberopds
Telephone



bp4/a/0414b Graphix

ENVIRONMENTAL TECHNOLOGIES, INC.

GROUNDWATER MONITORING WELL INSTALLATION REPORT

South Dakota License Number 575

Monitoring Well Number SB-1/MW-1

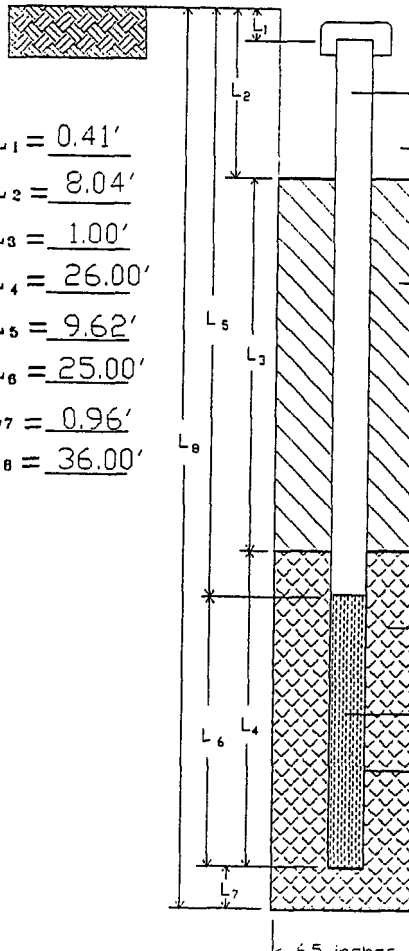
Project Name A & F OIL

Project Location Newell, SD

ETI Project Number 07698.002 Installed By ETI Date Installed 12/15/98

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	H*Nu Reading		
0	FILL, GRAVEL/SAND, Brown, Dry	0	Ground Elevation	96.94 feet
2		0	Top of Riser Elevation	96.53 feet
4	SILTY CLAY, Medium Stiff, Gray, Moist	5	Static Water Level	74.21 feet on 12/18/98
6		180		
8	SHALE, Hard, Dark Gray, Black Hydrocarbon Staining and Strong Odors	175		
10	SHALE, Hard, Dark Gray, w/ Iron Stained FRACTURES & CALCITE DEPOSITS, Strong Hydrocarbon Odor	170		
12		195		
14	SILTY CLAY, Light Brown, Moist, Moderate Odors	8		
16	SHALE, Dk Gray, Iron Stained FRACTURES w/ CALCITE DEPOSITS, Strong Odor	3		
18		3		
20	SHALE, Gray m/w Brown, Iron Stained FRACTURES w/ CALCITE DEPOSITS, Moist, Slight Hydrocarbon Odor	3		
22		3		
24		3		
26		2		
28		4		
30	SHALE, Dark Gray, Iron Staining in FRACTURES w/ CALCITE DEPOSITS, Moist in fractures	3		
32		1		
34				
36				
38	END OF BORING			
40				
42				
44				
46				
48				
50				

Remarks Laboratory samples obtained from the 6.5 to 8.5 and the 14 to 16 foot intervals.

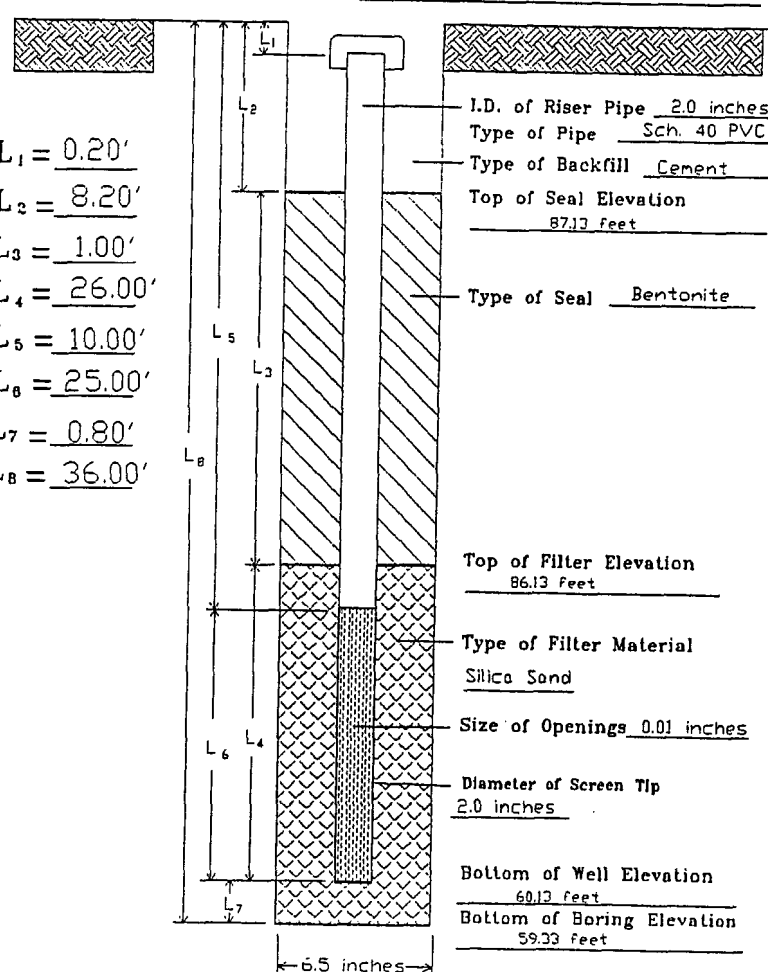
Prepared by Graphix

ENVIRONMENTAL TECHNOLOGIES, INC.

GROUNDWATER MONITORING WELL INSTALLATION REPORT

South Dakota License Number 575 Monitoring Well Number SB-3/MW-3
 Project Name A & F OIL Project Location Newell, SD
 ETI Project Number 07698.002 Installed By ETI Date Installed 12/16/98
 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	H*Nu Reading		
0	GRAVEL, Well Graded. Little or no Fines	0	Ground Elevation	95.33 feet
2	SILTY CLAY, Medium Stiff, Dark Brown, Moist	0	Top of Riser Elevation	95.13 feet
4		1	Static Water Level	72.49 feet on 12/18/98
6	SHALE, Hard, Gray Brown, with FRACTURES	30		I.D. of Riser Pipe <u>2.0 inches</u>
8		10		Type of Pipe <u>Sch. 40 PVC</u>
10		1		Type of Backfill <u>Cement</u>
12		1		Top of Seal Elevation <u>87.13 feet</u>
14	SHALE, Weathered, Hard, Gray, FRACTURED	1		Type of Seal <u>Bentonite</u>
16		0		
18		0		
20		0		
22		1		
24		1		
26	SHALE, Weathered, Hard, Gray mottled w/ Brown, Iron Staining in FRACTURES w/ CALCITE DEPOSITS	2		Top of Filter Elevation <u>86.13 feet</u>
28		6		Type of Filter Material <u>Silica Sand</u>
30		1		Size of Openings <u>0.01 inches</u>
32		1		Diameter of Screen Tip <u>2.0 inches</u>
34		1		Bottom of Well Elevation <u>60.13 feet</u>
36				Bottom of Boring Elevation <u>59.33 feet</u>
38	END OF BORING			
40				
42				
44				
46				
48				
50				

Remarks Laboratory sample obtained from the 6.5 to 8.5 foot interval.

Prepared by Graphix

Environmental Technologies, Inc.

Groundwater Monitoring Well Installation Report

South Dakota License Number 575

ETI Project Number 07698.005

Installed By ETI On 10/05/99

Monitoring Well Number MW-5

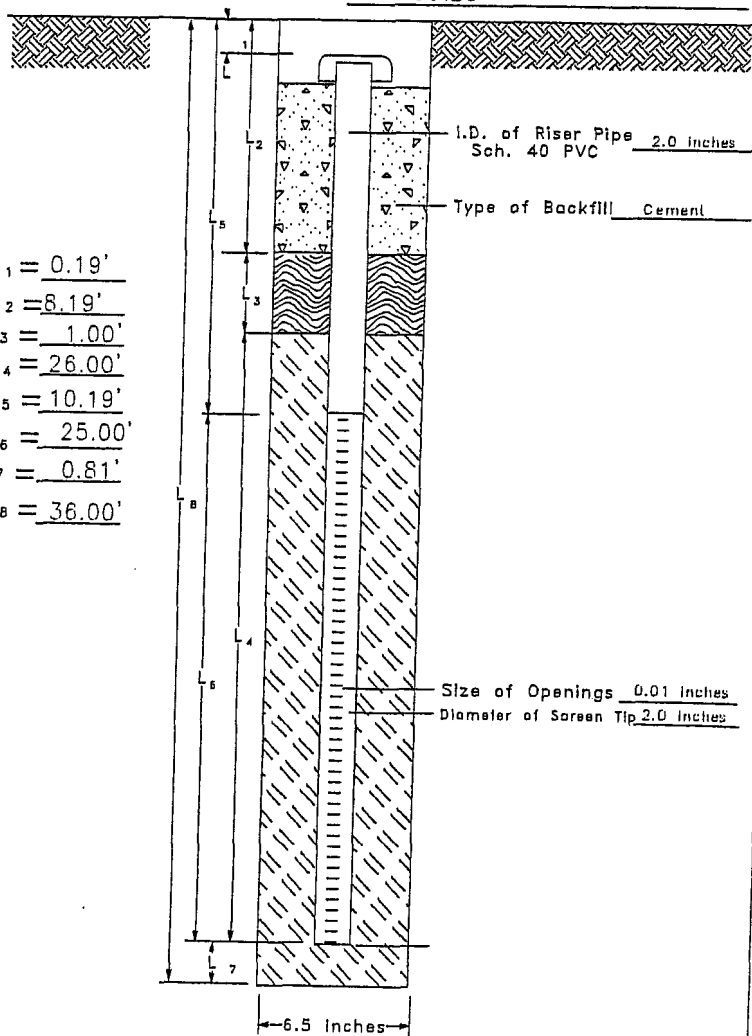
Project Name A&F Oil Company

Project Location Newell, 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

Soil Boring Information			Monitoring Well Information	
Depth in Ft.	Description	H*Nu Reading		
0			Ground Elevation <u>97.44</u>	
1		NS	Top of Riser Elevation <u>97.25</u>	
2	Sand & Gravel Fill Material Brown No Odors	NS	Static Water Level <u>69.25</u>	
3		NS		
4		NS		
5		NS		
6		NS		
7		NS		
8		NS		
9		NS		
10		NS		
11		NS		
12		NS		
13		NS		
14		NS		
15		NS		
16		NS		
17		NS		
18	Dark Gray Shale With Mico & Quartz Lenses Dry	NS		
19		NS		
20		NS		
21		1		
22		1		
23		0		
24		0		
25		0		
26		0		
27	Dark Gray Shale Quartz Sand Lenses 25', 28', and 30' Sands at 28' and 30' wet	0		
28		0		
29		0		
30		0		
31		0		
32		0		
33		0		
34	Blue Shale	0		
35	Very Hard	0		
36	End of Boring			
37				
38				
39				
40				
41				
42				
43				
44				
45				
46				
47				
48				
49				
50				



Remarks

Prepared by Graphix

ENVIRONMENTAL TECHNOLOGIES, INC.

GROUNDWATER MONITORING WELL INSTALLATION REPORT

South Dakota License Number 575

Monitoring Well Number SB-6/MW-6

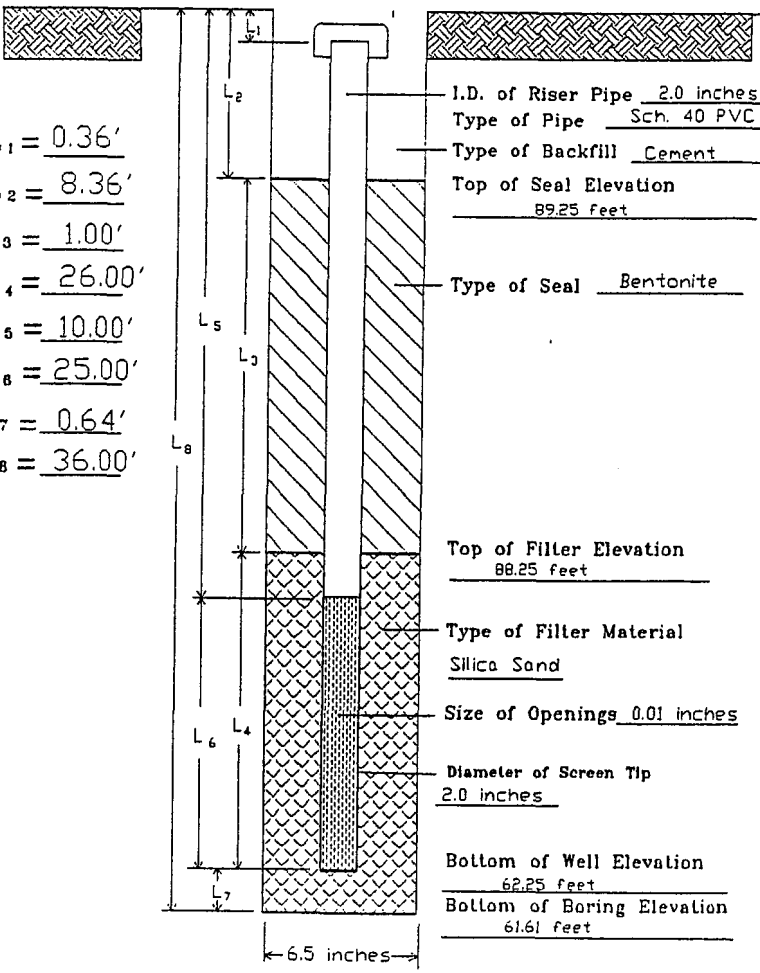
Project Name A & F OIL

Project Location Newell, SD

ETI Project Number 07698.002 Installed By ETI Date Installed 12/17/98

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	H*Nu Reading		
0	CONCRETE	0	Ground Elevation	97.61 feet
2	SILTY CLAY, Soft, Brown, Moist, Slight Hydrocarbon Odor	1	Top of Riser Elevation	97.25 feet
4	SILTY CLAY, Medium Stiff, Gray	1	Static Water Level	73.89 feet on 12/18/98
6		1	 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>89.25 feet</u> Type of Seal <u>Bentonite</u> Top of Filter Elevation <u>88.25 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> Bottom of Well Elevation <u>62.25 feet</u> Bottom of Boring Elevation <u>61.61 feet</u>	
8	SHALE, Hard, Gray mottled w/ Brown, FRACTURED	3		
10		150		
12		220		
14	SHALE, Hard, Gray, Iron Staining in FRACTURES w/ CALCITE DEPOSITS, Moderate Hydrocarbon Odor	10		
16		5		
18	SHALE, Hard, Gray mottled w/ Brown, Iron Staining in FRACTURES w/ CALCITE DEPOSITS, Slight Hydrocarbon Odor	5		
20		4		
22		0		
24		1		
26		0		
28	SHALE, Hard, Gray, Iron Staining in FRACTURES w/ CALCITE DEPOSITS	1		
30		0		
32		1		
34				
36	END OF BORING			
38				
40				
42				
44				
46				
48				
50				

Remarks Laboratory sample obtained from the 14 to 16 foot interval.

Prepared by Graphix