

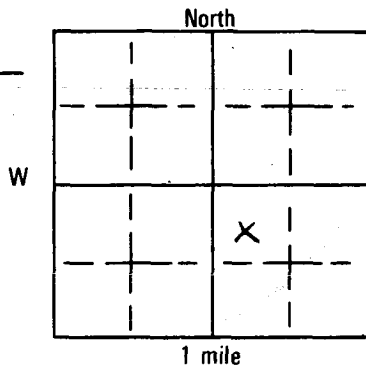
SOUTH DAKOTA WELL AND TEST HOLE PLUGGING REPORT

10-85

Location NW 1/4 SE 1/4 Sec 19 Twp 91N Rg 49W

County Union
ELK POINT

Please mark well location with an "X"



Well Owner:

Name

HOFFMAN OIL CO

Address

ELK POINT, SD

Plugging completion

Date 4-13-05

CHECK APPROPRIATE BOX

EXISTING WELL



6 WELLS

TEST HOLE



Well depth

SEE ATTACHED LOG

Hole depth

Casing material

Hole size

Casing size(s)

Casing condition

RECEIVED
OCT 27 2005
WATER RIGHTS
PROGRAM

Describe plugging procedure:

MANUALLY BACKFILLED

Describe grout or plugging material:

SAND, BENTONITE, CONCRETE
(SEE ATTACHED LOG)

Type of non-slip plug:

This well or test hole was plugged under license #

623

And this report is true and accurate.

Drilling firm

RESPEC

Signature of Licensed Representative

Brad Chase

Signature of Well Owner

Ronald W Hoffman

Date

4-13-05

10-27-05

RE/SPEC INC. GEOLOGIC DRILL LOG

Project Number: 290-026

Soil Boring No.: 16

Page 1 of 2

Start Date: 4/4/95

Drill Method: HSA

Start Time: 10:35 a.m.

Borehole Diameter: 8 inch

Project Name: Hoffman Oil Company

Finish Date: 4/4/95

Sampling Method: Continuous

Location: Elk Point, SD

Finish Time: 1:35 p.m.

Surface Elevation: 97.40

Logged By: Brad Chase

Total Depth: 30 feet

Drilling Company: ATS

Weather: Overcast, Calm, Upper 20's°F

DEPTH FEET	SAMPLE NUMBER	SAMPLER BLOW COUNT	MATERIAL DESCRIPTION	PID (ppm)		REMARKS (Drill Rig, Weather, etc.)
				A	B	
—			4" concrete			Calibrated PID: 100.4
— 1	1		5" brown sandy clay, damp, medium dense.	0.0	0.0	11:14 a.m. 17 percent recovery.
— 2						
— 3	2			—	—	No sample recovery.
— 4						
— 5	3		2" brown sandy clay, damp, medium dense. 6" brown silty sand, damp, medium dense. 14½" brown sandy clay, damp, medium dense.	0.0	0.0	11:20 a.m. 75 percent recovery.
— 6						
— 7						
— 8	4		22½" brown silty clay, damp, medium dense.	0.0	0.0	11:23 a.m. 75 percent recovery.
— 9						
— 10	5		30" dark brown to brown silty clay, damp, medium dense.	0.0	0.0	11:32 a.m. 100 percent recovery.
— 11						
— 12						
— 13	6		30" brown silty clay, damp, medium dense.	0.0	0.0	11:34 a.m. 100 percent recovery.
— 14						
— 15						
— 16	7		10" brown silty clay, damp, medium dense. 20" reddish tan fat clay, damp, medium dense.	2.4	1.9	11:43 a.m. 100 percent recovery.
— 17						

RE/SPEC INC. GEOLOGIC DRILL LOG

Project Number: 290-026

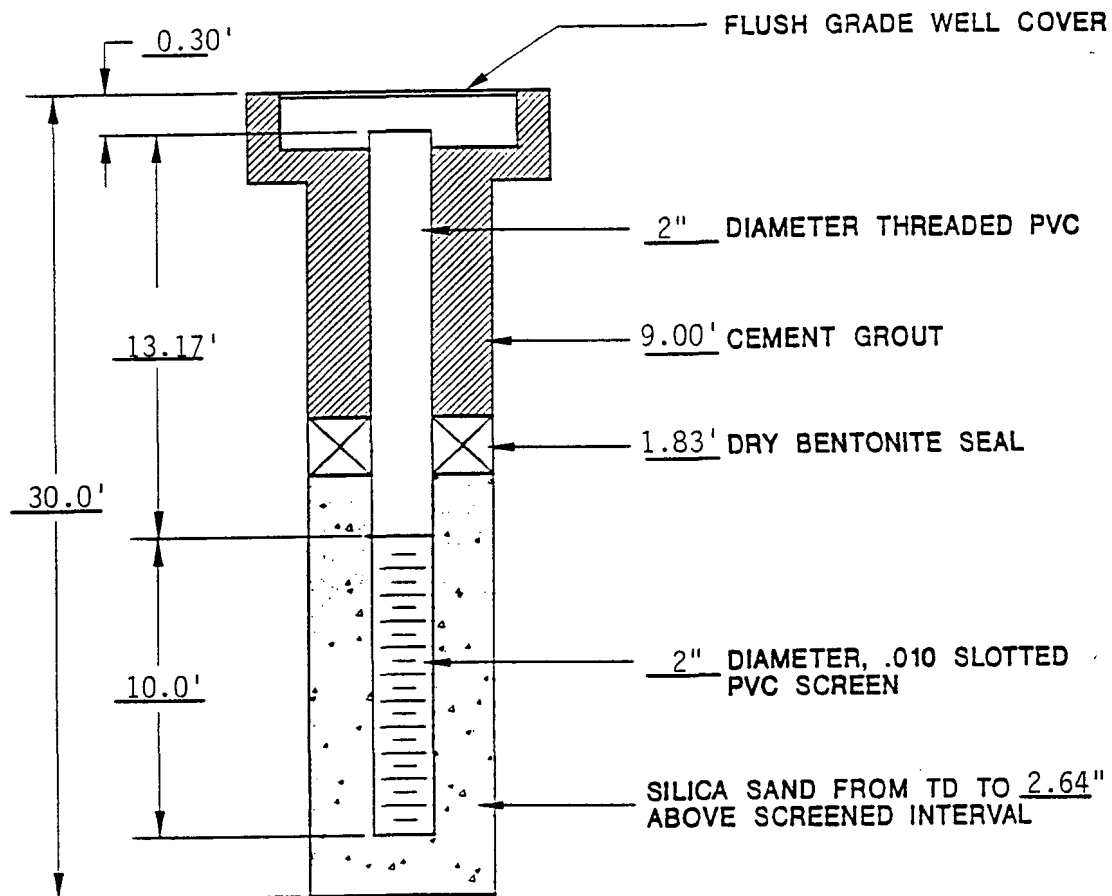
Soil Boring No.: 16
Page 2 of 2

DEPTH FEET	SAMPLE NUMBER	SAMPLER BLOW COUNT	MATERIAL DESCRIPTION	PID A (ppm) B		REMARKS (Drill Rig, Weather, etc.)
— 18 — — 19 — — 20	8		30" reddish tan fat clay, damp, medium dense.	6.8	3.5	11:45 a.m. 100 percent recovery.
— 21 — 22			6" reddish brown silty clay, very damp, medium dense. 24" mottled red, brown, and gray clay, damp, medium dense.	342	501	11:57 a.m. 100 percent recovery.
— 23 — 24 — 25			14" mottled red, brown, and gray clay, damp, medium dense. 16" mottled red, brown, and gray (mostly gray) fat clay, very damp, medium dense.	763	868	11:59 a.m. 100 percent recovery. This sample sent to laboratory.
— 26 — 27			16" gray fat clay, very damp, medium dense. 10½" gray sand, very damp, loose.	70.0	90.6	1:20 p.m. 88 percent recovery.
— 28 — 29 — 30	12		26½" gray sand, very damp, loose.	10.7	8.2	1:22 p.m. 88 percent recovery.
— 31 — 32 — 33 — 34 — 35 — 36 — 37			Total Depth			

FLUSH MOUNT MONITORING WELL COMPLETION REPORT

MONITORING WELL No. 16

RSI PROJECT No. 290-026



PROJECT NAME: Hoffman Oil Co.

LOCATION: Elk Point, SD

WELL COMPLETION DATE AND TIME: 4-4-95 13:35

GROUND ELEVATION: 97.40'

TOP OF CASING ELEVATION: 97.10'

COMMENTS: _____



RE/SPEC INC. GEOLOGIC DRILL LOG

Project Number: 290-026

Soil Boring No.: 17

Page 1 of 2

Start Date: 4/4/95

Drill Metho: HSA

Start Time: 3:11 p.m.

Borhole Diameter: 8 inch

Project Name: Hoffman Oil Company

Finish Date: 4/4/95

Sampling Method: Continuous

Location: Elk Point, SD

Finish Time: 5:20 p.m.

Surface Elevation: 97.68

Logged By: Brad Chase

Total Depth: 35 feet

Drilling Company: ATS

Weather: Overcast, Light Breeze, 30°F

DEPTH FEET	SAMPLE NUMBER	SAMPLER BLOW COUNT	MATERIAL DESCRIPTION	PID		REMARKS (Drill Rig, Weather, etc.)
				A	B (ppm)	
—			4" concrete			Checked PID: 99.7
— 1	1		5" brown silty clay, damp, medium dense. 6" brown silty sand, damp, loose.	0.5	0.5	3:31 p.m. 37 percent recovery.
— 2						
— 3	2			—	—	No sample recovery.
— 4						
— 5	3		10" brown silty sand, very damp, loose. 14" brown silty clay, damp, medium dense.	0.0	0.0	3:40 p.m. 80 percent recovery.
— 6						
— 7						
— 8	4		6" brown silty clay, damp, medium dense. 18" dark brown to brown silty clay, damp, medium dense.	0.0	0.0	3:42 p.m. 80 percent recovery.
— 9						
— 10	5		24" dark brown to brown silty clay, damp, medium dense. 6" mottled red and brown silty clay, damp, medium dense.	0.0	0.0	3:50 p.m. 100 percent recovery.
— 11						
— 12						
— 13	6		30" mottled red and brown silty clay, damp, medium dense.	0.0	0.0	3:52 p.m. 100 percent recovery.
— 14						
— 15						
— 16	7		30" mottled red and brown silty clay, damp, medium dense.	7.5	7.0	4:01 p.m. 100 percent recovery.
— 17						

RE/SPEC INC. GEOLOGIC DRILL LOG

Project Number: 290-026

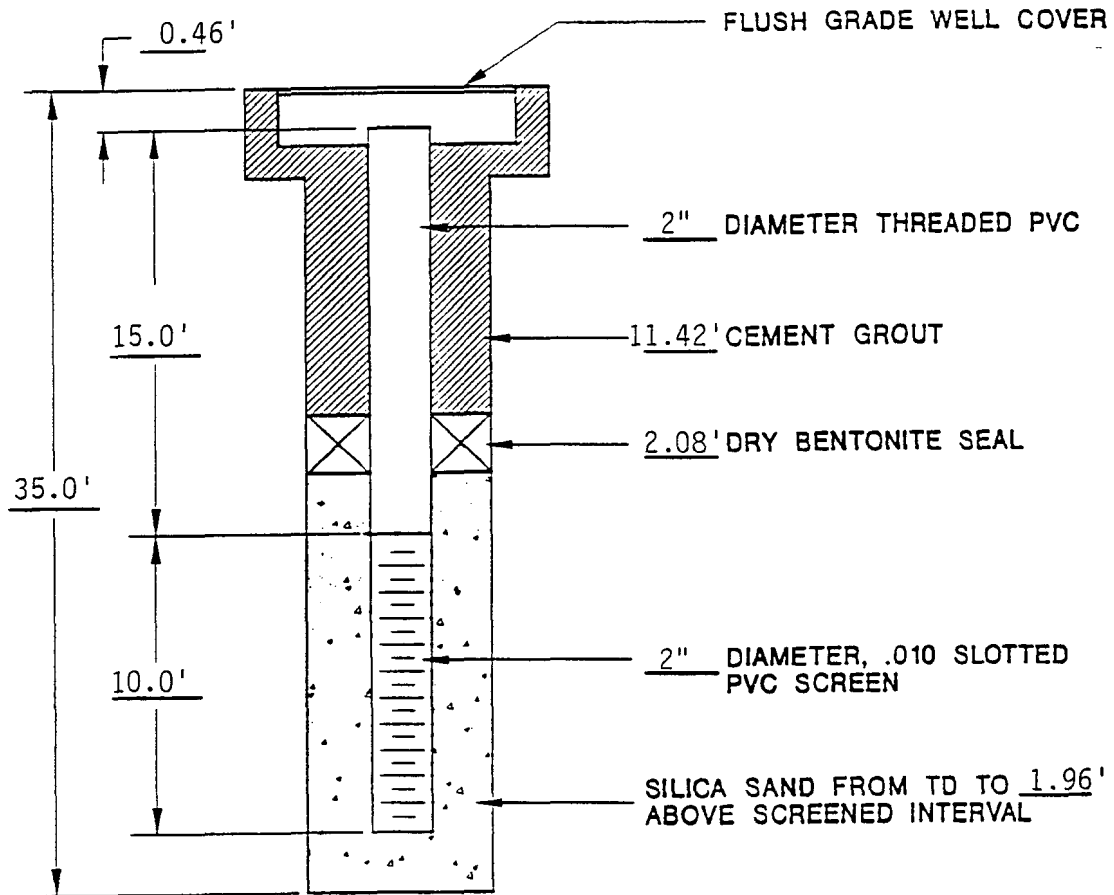
Soil Boring No.: 17
Page 2 of 2

DEPTH FEET	SAMPLE NUMBER	SAMPLER BLOW COUNT	MATERIAL DESCRIPTION	PID A (ppm) B		REMARKS (Drill Rig, Weather, etc.)
— 18 — — 19 — — 20	8		24½" mottled red and brown silty clay, damp, medium dense. 5½" mottled red, brown, and gray fat clay (mostly gray), damp, medium dense.	285	270	4:03 p.m. 100 percent recovery.
— 21 — 22			30" mottled red, brown, and gray fat clay, damp, medium dense.	768	746	4:13 p.m. 100 percent recovery. This sample sent to laboratory.
— 23 — 24			30" mottled red, brown, and gray fat clay, damp, medium dense.	545	363	4:15 p.m. 100 percent recovery.
— 25 — 26			10" mottled red, brown, and gray fat clay, damp, medium dense. 10" gray fat clay, very damp, medium dense.	729	533	4:29 p.m. 67 percent recovery.
— 27 — 28	11		3" gray fat clay, very damp, medium dense. 17" gray sand, wet, loose.	79.4	75.8	4:31 p.m. 67 percent recovery.
— 29 — 30			16" gray sand, wet, loose.	44.3	44.5	5:04 p.m. 53 percent recovery.
— 31 — 32			16" gray sand, wet, loose.	16.5	10.0	5:06 p.m. 53 percent recovery.
— 33 — 34						
— 35 — 36 — 37			Total Depth			

FLUSH MOUNT MONITORING WELL COMPLETION REPORT

MONITORING WELL No. 17

RSI PROJECT No. 290-026



PROJECT NAME: Hoffman Oil Co.

LOCATION: Elk Point, SD

WELL COMPLETION DATE AND TIME: 4-4-95 17:20

GROUND ELEVATION: 97.68'

TOP OF CASING ELEVATION: 97.22'

COMMENTS: _____



RE/SPEC INC. GEOLOGIC DRILL LOG

Project Number: 290-026

Soil Boring No.: 18

Page 1 of 2

Start Date: 4/5/95

Drill Method: HSA

Start Time: 9:00 a.m.

Borehole Diameter: 8 inch

Project Name: Hoffman Oil Company

Finish Date: 4/4/95

Sampling Method: Continuous

Location: Elk Point, SD

Finish Time: 1:30 p.m.

Surface Elevation: 97.05

Logged By: Brad Chase

Total Depth: 25 feet

Drilling Company ATS

Weather: Overcast, Windy, Low 40's°F

DEPTH FEET	SAMPLE NUMBER	SAMPLER BLOW COUNT	MATERIAL DESCRIPTION	PID		REMARKS (Drill Rig, Weather, etc.)
				A (ppm)	B	
—	1		4" gravel			Calibrated PID: 100.6 ppm
— 1			11" brown silty clay, damp, medium dense. 3" tan sand, damp, loose.	6.4	9.0	9:15 a.m. 47 percent recovery.
— 2						
— 3	2		14" tan sand, damp, loose.	0.2	0.2	9:17 a.m. 47 percent recovery.
— 4						
— 5						
— 6	3		5" tan sand, damp, loose. 21" brown silty clay, damp, medium dense.	0.0	0.0	9:23 a.m. 87 percent recovery.
— 7						
— 8						
— 9	4		20" brown silty clay, damp, medium dense. 6" dark brown silty clay, damp, medium dense.	0.0	0.0	9:24 a.m. 87 percent recovery.
— 10						
— 11						
— 12	5		30" dark brown grading to brown silty clay, damp, medium dense.	0.0	0.0	9:36 a.m. 100 percent recovery.
— 13						
— 14						
— 15	6		30" brown silty clay, damp, medium dense.	0.0	0.0	9:38 a.m. 100 percent recovery.
— 16						
— 17						
—	7		30" brown silty clay, damp, medium dense.	0.0	0.0	9:50 a.m. 100 percent recovery.
—						
—						

RE/S/EC INC. GEOLOGIC DRILL LOG

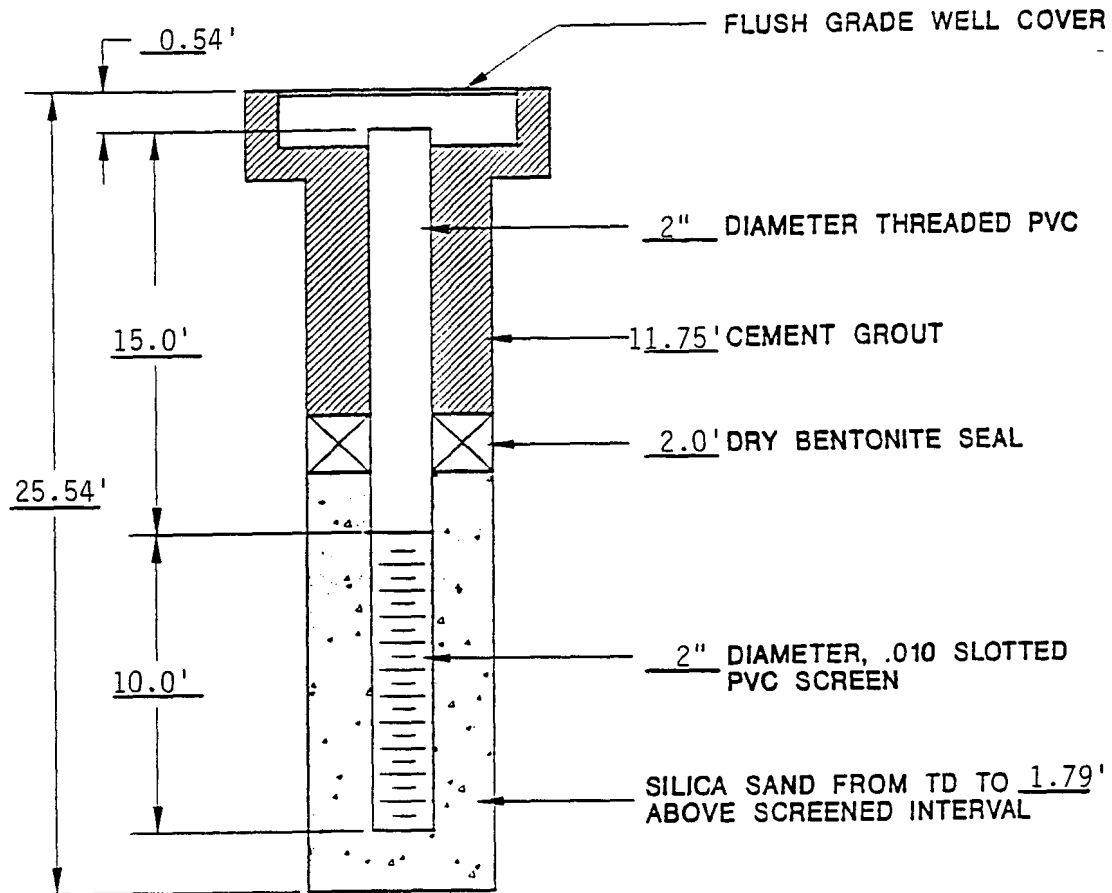
Project Number: 290-026

Soil Boring No.: 18
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DEPTH FEET	SAMPLE NUMBER	SAMPLER BLOW COUNT	MATERIAL DESCRIPTION	PID A (ppm) B		REMARKS (Drill Rig, Weather, etc.)
18	8		9" brown silty clay, damp, medium dense. 11" mottled red and brown silty, very damp, medium dense.	6.4	5.7	9:52 a.m. 100 percent recovery. This sample sent to laboratory.
19						
20						
21	9		30" mottled red, brown, and gray fat clay, damp, medium dense.	0.0	0.0	1:13 p.m. 100 percent recovery.
22						
23						
24	10		19" mottled red, brown, and gray fat clay, damp, medium dense. 11" mottled red, brown, and gray (mostly gray) fat clay, damp, medium dense.	0.0	0.0	1:15 p.m. 100 percent recovery. Sampler detached from center rod in bottom of the hole. Had to bore past sampler to plug HSA, pull auger, and retrieve sampler. Rebored hole to 25 feet.
25						
26						
27			Total Depth			
28						
29						
30						
31						
32						
33						
34						
35						
36						
37						

FLUSH MOUNT MONITORING WELL COMPLETION REPORT

MONITORING WELL No. 18
RSI PROJECT No. 290-026



PROJECT NAME: Hoffman Oil Co.

LOCATION: Elk Point, SD

WELL COMPLETION DATE AND TIME: 4-5-95 13:30

GROUND ELEVATION: 97.05'

TOP OF CASING ELEVATION: 96.51'

COMMENTS: _____

