



GUILFORD COUNTY
DEPARTMENT OF PUBLIC HEALTH
ENVIRONMENTAL HEALTH DIVISION

March 10, 1997

Exxon Company USA
Attn: Frank Medlin
P.O. Box 30451
Charlotte, NC 28230-0451

SUBJECT: MONITOR WELL CONSTRUCTION
PERMIT #: 181-97-MW9-RW13
GUILFORD COUNTY
SITE NAME:Exxon Company USA #43998

Dear Madam or Sir:

In accordance with your application received March 4, 1997, we are forwarding herewith Monitor Well Construction Permit #181-97-MW9-RW13 for the construction of 22 well(s).

Henceforth, correspondence and data relating to these wells shall be designated as specified in the subject heading.

This Permit will be effective from the date of its issuance and must be renewed annually. Any additional wells installed at the site in excess of the number permitted above requires that a new application be submitted so that the permit may be amended to reflect the correct number of wells on the site. This Permit shall be subject to the conditions and limitations specified therein.

Sincerely,

Kelly C. Gage
Environmental Specialist

cc: ~~Incident File~~
Permit File

GUILFORD COUNTY BOARD OF HEALTH
DIVISION OF ENVIRONMENTAL HEALTH
PERMIT FOR THE CONSTRUCTION OF
A MONITOR WELL OR WELL SYSTEM

In accordance with the provisions of the Guilford County Board of Health Rules and Regulations Governing the Construction, Repair, and Abandonment of Wells,

PERMISSION IS HEREBY GRANTED TO

Exxon Company USA

for

Exxon Company USA #43998

FOR THE CONSTRUCTION OF 22well(s) located at 4701 W. Market St., Greensboro, North Carolina in Guilford County in accordance with the application dated February 27, 1997 and in conformity with the specifications and supporting data, all of which are filed with the Guilford County Health Department, Division of Environmental Health and are considered a part of this Permit.

This Permit is for well construction only, and does not waive any provisions or requirements or any other applicable laws or regulations.

Construction of a well under this Permit shall be in compliance with the Guilford County Board of Health Rules and Regulations Governing the Construction, Repair, and Abandonment of Wells, and any other laws and regulations pertaining to well construction.

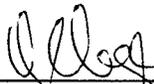
This Permit will be effective from the date of its issuance until the site assessment and/or remediation has been completed, and shall be subject to other specified conditions, limitations or exceptions as follows:

1. Written permission must be obtained from the property owner prior to construction of the well.
2. A permanent identification plate with the date of construction, depth of well, screen interval, depth of grout, drilling contractor, and his registration number shall be attached to the well head or the outer protective steel casing.

3. The well construction completion form and all water quality data are to be submitted to the Guilford County Division of Environmental Health, 301 N. Eugene Street, Greensboro, North Carolina, 27401 to the attention of Kelly C. Gage.
4. All laboratory analyses of groundwater samples collected from the permitted monitor well(s) are to be submitted to the Guilford County Division of Environmental Health, 301 N. Eugene Street, Greensboro, North Carolina, 27401 to the attention of Kelly C. Gage.
5. All additional investigative findings in relation to the pollution sources being monitored, as indicated under Item #9 of the permit application, are to be submitted to the Guilford County Division of Environmental Health, 301 N. Eugene Street, Greensboro, North Carolina, 27401 to the attention of Kelly C. Gage within sixty (60) days of well completion, and quarterly thereafter.
6. The well shall be afforded a means of protection against vandalism, damage, or unauthorized use.
7. When any monitor well is no longer useful for its intended purpose, it shall be abandoned in compliance with the Guilford County Board of Health Rules and Regulations Governing the Construction, Repair, and Abandonment of Wells and a well abandonment form sent to the Guilford County Division of Environmental Health, 301 N. Eugene Street, Greensboro, North Carolina, 27401 to the attention of Kelly C. Gage.
8. The monitor well shall be constructed in accordance with the Guilford County Board of Health's recommended construction details.
9. If additional monitor wells, not included on the original application, need to be constructed, a new application must be submitted, so that the Permit may be amended.

Permit issued March 10, 1997

FOR THE GUILFORD COUNTY BOARD OF HEALTH



Kelly C. Gage, Environmental Specialist
Division of Environmental Health

By Authority of the Guilford County Board of Health
Permit #181-97-MW9-RW13

GUILFORD COUNTY
DEPARTMENT OF PUBLIC HEALTH
DIVISION OF ENVIRONMENTAL HEALTH
APPLICATION FOR PERMIT TO CONSTRUCT A MONITORING/RECOVERY
WELL SYSTEM

Date: 2/27/97 EXISTING WELLS

In accordance with the provisions of the Guilford County Board of Health Rules and Regulations Governing the Construction and Abandonment of Monitoring and Recovery Wells, application is hereby made for a permit to construct monitoring/recovery wells.

1. Site Name: EXXON 4-3994 Incident #: 10001
2. Address of Well: 4701 WEST MARKET STREET, GREENSBORO NC
3. Name of Well Owner: EXXON COMPANY USA Telephone: 704-529-4263
4. Owner's Mailing Address: P.O. BOX 30451, CHARLOTTE, N.C. 28230-0451
5. Property Owner (if different from well owner): SAME AS ABOVE
6. Property Owners' Mailing Address: SAME AS ABOVE
7. Reason for Monitoring Well(s): ENVIRONMENTAL ASSESSMENT
(e.g. nondischarge permit, suspected contamination, environmental assessment, etc.)
8. Type of facility for which the well is needed: UNDERGROUND STORAGE TANK SITE
(e.g. nondischarge facility, waste disposal site, landfill, underground storage tank, etc.)
9. Contaminant type (if applicable): GASOLINE CONSTITUENTS
(e.g. nutrients, organics, heavy metals, etc.)
10. Are there existing recovery wells associated with the monitoring well(s)? YES
If yes, how many? 13 Number of new/additional recovery well(s) to be installed NONE
11. Distance to a known waste or pollution source: 50 feet
12. Are any water supply wells located <500 feet from the proposed well? NO
If yes, give distance: _____ feet
13. Well Driller: Performance Review Systems
14. Registration #: 1337
15. Driller's Address: NOT KNOWN
Telephone: NOT KNOWN

Fee:	\$ <u>200.00</u>
Date Paid:	<u>3-4-97</u>
Receipt#:	<u>15141</u>

PROPOSED MONITORING/RECOVERY WELL CONSTRUCTION INFORMATION

1. Total number ~~of wells to be~~ constructed: 9 Number ~~to be~~ completed in bedrock: 1
Number ~~to be~~ completed in unconsolidated material: 8
2. Estimated depth of well(s): 30 feet
3. Gravel or sand pack interval (if appropriate): From See well logs feet to feet
4. Type of casing used: PVC
(i.e. PVC, stainless steel, galvanized steel, etc.)
5. Diameter of casing: 2 inches Thickness of casing: sch 40 inches
6. How will the well(s) be secured? locking caps
7. Beginning construction date: EXISTING WELLS
8. Completion date: EXISTING WELLS

ADDITIONAL INFORMATION

1. ATTACH A SITE MAP SHOWING THE LOCATIONS OF THE FOLLOWING:
 - (a) PROPOSED MONITORING/RECOVERY WELL(S)
 - (b) ALL EXISTING MONITORING/RECOVERY WELLS AND TEST BORINGS WITHIN THE PROPERTY BOUNDARY
 - (c) ALL WATER SUPPLY WELLS WITHIN 500 FEET OF THE WELL
 - (d) AT LEAST TWO REFERENCE POINTS (e.g. numbered roads, intersections, streams, etc.)
2. PROVIDE A WELL CONSTRUCTION DIAGRAM OF EACH WELL SHOWING DIAMETER, ESTIMATED DEPTH, SCREEN INTERVALS, SAND/GRAVEL PACKS, TYPE OF CASING MATERIAL, CASING WALL THICKNESS, WELL HEAD COMPLETION DETAILS, ETC.

The Applicant hereby agrees the proposed well(s) will be constructed in accordance with approved specifications and conditions of the Well Construction Permit as regulated under the Guilford County Board of Health Rules and Regulations Governing the Construction and Abandonment of Monitoring and Recovery Wells and accepts full responsibility for compliance with these rules.

[Signature]
Signature of Applicant or Agent

President
Title

If the property is owned by someone other than the applicant, the property owner hereby consents to allow the applicant to construct monitoring wells as outlined in this application and that it shall be the responsibility of the applicant to ensure that these monitoring/recovery wells conform to the Guilford County Board of Health well construction standards.

Signature of Property Owner (if different from applicant)

Attach agreements.

North Carolina - Department of Environment, Health, and Natural Resources
 Division of Environmental Management - Groundwater Section
 P.O. Box 29535 - Raleigh, N.C. 27626-0535
 Phone (919) 733-3221

WELL CONSTRUCTION RECORD

SEP 15 1992

FOR OFFICE USE ONLY

QUAD. NO. _____ SERIAL NO. _____

Lat _____ Long _____ RO _____

Water Basin _____

Basin Code _____

Header Ent. _____ GW-1 Ent. _____

DRILLING CONTRACTOR: Performance Design Systems

DRILLER REGISTRATION NUMBER: 1337

STATE WELL CONSTRUCTION PERMIT NUMBER: 40-1045-WM-0456

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: Greensboro County: Guilford
4701 W. Market St.

(Road, Community, or Subdivision and Lot No.)

2. OWNER Exxon
 ADDRESS P.O. Box 30451
 (Street or Route No.)
Charlotte, NC 28230
 City or Town State Zip Code

DEPTH
 From To
0.0' - 30.0'

DRILLING LOG
 Formation Description
Redish brown silty

3. DATE DRILLED 8-13-92 USE OF WELL Monitoring

4. TOTAL DEPTH 30.0'

5. CUTTINGS COLLECTED YES NO

6. DOES WELL REPLACE EXISTING WELL? YES NO

7. STATIC WATER LEVEL Below Top of Casing: _____ FT.

8. TOP OF CASING IS 0.0 (Use "+" if Above Top of Casing)
 FT. Above Land Surface*

* Casing Terminated at or below land surface is illegal unless a variance is issued in accordance with 15A NCAC 2C .0118

9. YIELD (gpm): N/A METHOD OF TEST N/A

10. WATER ZONES (depth): N/A

11. CHLORINATION: Type N/A Amount _____

12. CASING:

From	Depth	To	Diameter	Wall Thickness or Weight/FL	Material
0.0	15.0	Ft.	2.0"	SCH 40	PVC
From	To	Ft.			
From	To	Ft.			

13. GROUT:

From	Depth	To	Material	Method
0.0	14.0	Ft.	Portland/Bent.	Slurry
From	To	Ft.		

14. SCREEN:

From	Depth	To	Diameter	Slot Size	Material
15.0	30.0	Ft.	2.0	in. .010	in. PVC
From	To	FL	in.	in.	
From	To	FL	in.	in.	

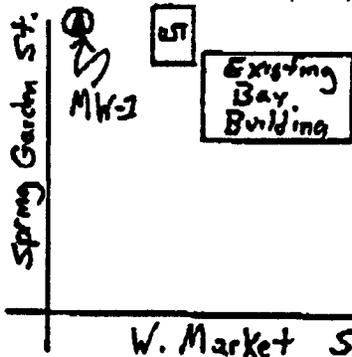
15. SAND/GRAVEL PACK:

From	Depth	To	Size	Material
14.0	30.0	Ft.	20/60	Fine silica sand
From	To	Ft.		

16. REMARKS: MW #1 BENTONITE SEAL FROM 12.0' TO 14.0'

LOCATION SKETCH

(Show direction and distance from at least two State Roads, or other map reference points)



I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

George Flantz

8-25-92

SIGNATURE OF CONTRACTOR OR AGENT

DATE

North Carolina - Department of Environment, Health, and Natural Resources .
 Division of Environmental Management - Groundwater Section
 P.O. Box 29535 - Raleigh, N.C. 27626-0535
 Phone (919) 733-3221

FOR OFFICE USE ONLY
 QUAD. NO. _____ SERIAL NO. _____
 Lat. _____ Long. _____ RO _____
 Minor Basin _____
 Basin Code _____
 Header Ent. _____ GW-1 Ent. _____

WELL CONSTRUCTION RECORD

DRILLING CONTRACTOR: Performance Design Systems

DRILLER REGISTRATION NUMBER: 1337

STATE WELL CONSTRUCTION PERMIT NUMBER: 40-1045-WM-0456

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: Greensboro County: Gulford
4701 W. Market St.

(Road, Community, or Subdivision and Lot No.)

2. OWNER Exxon
 ADDRESS P.O. Box 30431
Charlotte (Street or Route No.) 28230
 City or Town State Zip Code

DEPTH
 From To
0.0 - 30.0

DRILLING LOG

Formation Description

Redish brown silty clay

3. DATE DRILLED 8-14-92 USE OF WELL Monitoring

4. TOTAL DEPTH 30.0'

5. CUTTINGS COLLECTED YES NO

6. DOES WELL REPLACE EXISTING WELL? YES NO

7. STATIC WATER LEVEL Below Top of Casing: N/A FT.

8. TOP OF CASING IS 0.0 FT. Above Land Surface*

* Casing Terminated at or below land surface is illegal unless a variance is issued in accordance with 15A NCAC 2C .0118

9. YIELD (gpm): N/A METHOD OF TEST N/A

10. WATER ZONES (depth): N/A

11. CHLORINATION: Type N/A Amount _____

12. CASING:

If additional space is needed use back of form

From	Depth	To	Diameter	Wall Thickness or Weight/Ft.	Material
<u>8.0</u>	<u>15.0</u>	<u>15.0</u>	<u>2.0"</u>	<u>SCH 40</u>	<u>PVC</u>
From _____	To _____	Ft. _____	_____	_____	_____
From _____	To _____	Ft. _____	_____	_____	_____

13. GROUT:

From	Depth	To	Material	Method
<u>0.0</u>	<u>14.0</u>	<u>14.0</u>	<u>Portland/ Bent</u>	<u>Slurry</u>
From _____	To _____	Ft. _____	_____	_____

14. SCREEN:

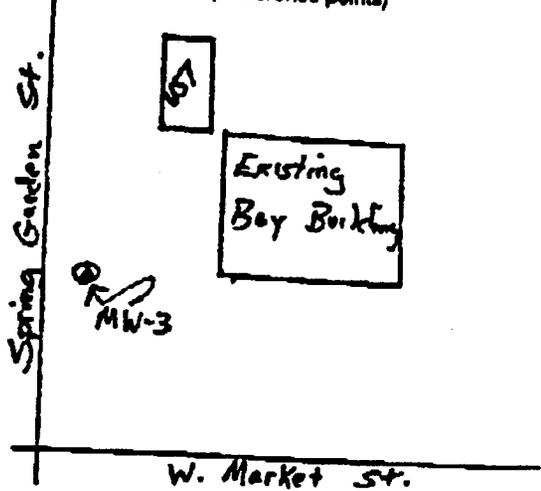
From	Depth	To	Diameter	Slot Size	Material
<u>15.0</u>	<u>30.0</u>	<u>30.0</u>	<u>2.0</u>	<u>.010</u>	<u>PVC</u>
From _____	To _____	Ft. _____	_____	_____	_____
From _____	To _____	Ft. _____	_____	_____	_____

15. SAND/GRAVEL PACK:

From	Depth	To	Size	Material
<u>14.0</u>	<u>30.0</u>	<u>30.0</u>	<u>20/60</u>	<u>Silica Sand</u>
From _____	To _____	Ft. _____	_____	_____

16. REMARKS: MW-3 BENTONITE SEAL FROM 12.0 to 14.0 feet

LOCATION SKETCH
 (Show direction and distance from at least two State Roads, or other map reference points)



I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

SIGNATURE OF CONTRACTOR OR AGENT

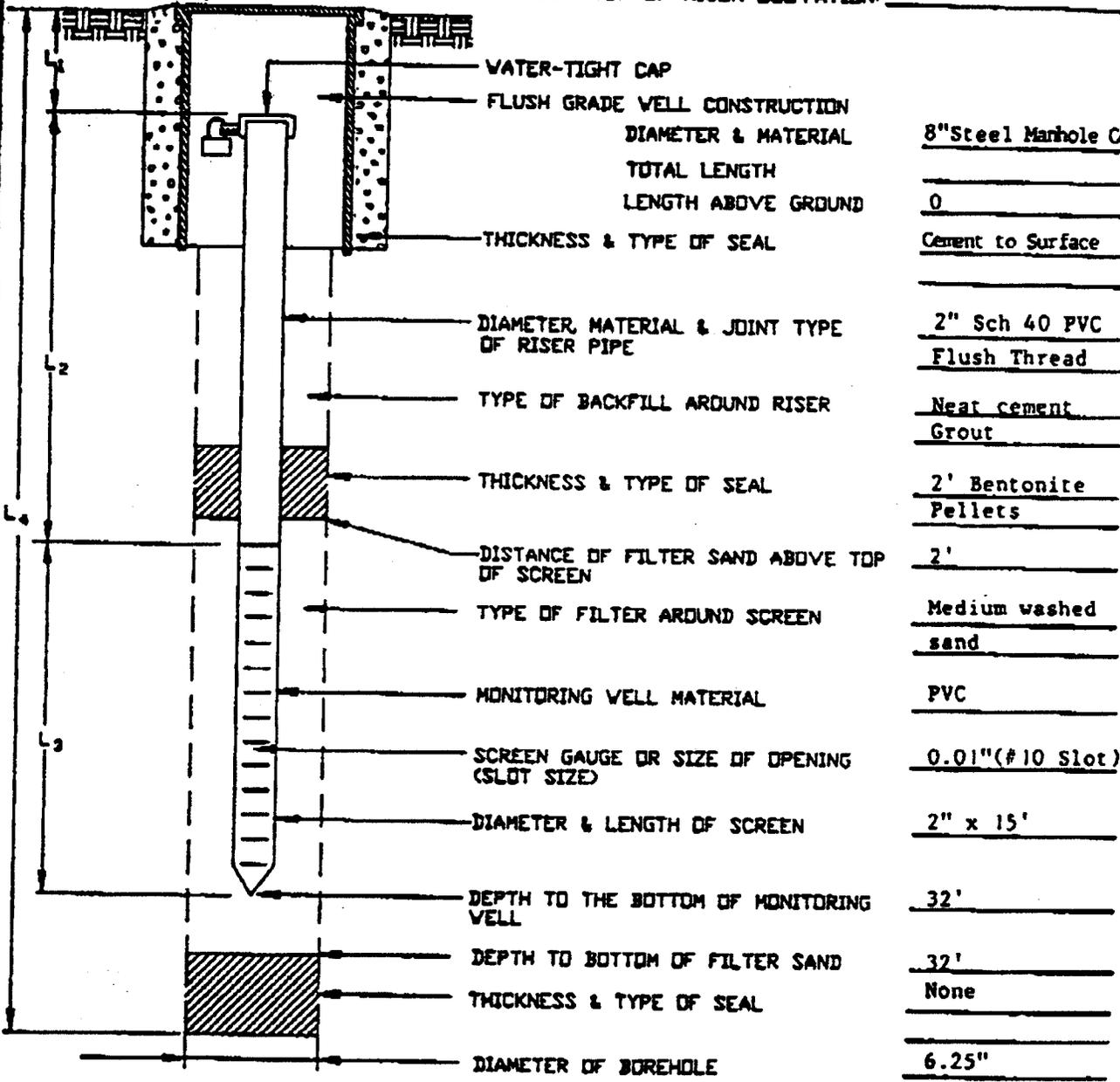
8-25-92

DATE

Submit original to Division of Environmental Management and copy to well owner.

INSTALLATION OF FLUSH GRADE MONITORING WELL

PROJECT: Exxon U.S.A. Greensboro, NC MONITORING WELL NO. MW-5
 JOB NO. 50-92-037.01 TOP OF RISER ELEVATION: _____



- WATER-TIGHT CAP
- FLUSH GRADE WELL CONSTRUCTION
- DIAMETER & MATERIAL 8" Steel Manhole Cover
- TOTAL LENGTH _____
- LENGTH ABOVE GROUND 0
- THICKNESS & TYPE OF SEAL Cement to Surface
- DIAMETER, MATERIAL & JOINT TYPE OF RISER PIPE 2" Sch 40 PVC
Flush Thread
- TYPE OF BACKFILL AROUND RISER Neat cement
Grout
- THICKNESS & TYPE OF SEAL 2' Bentonite
Pellets
- DISTANCE OF FILTER SAND ABOVE TOP OF SCREEN 2'
- TYPE OF FILTER AROUND SCREEN Medium washed
sand
- MONITORING WELL MATERIAL PVC
- SCREEN GAUGE OR SIZE OF OPENING (SLOT SIZE) 0.01" (#10 Slot)
- DIAMETER & LENGTH OF SCREEN 2" x 15'
- DEPTH TO THE BOTTOM OF MONITORING WELL 32'
- DEPTH TO BOTTOM OF FILTER SAND 32'
- THICKNESS & TYPE OF SEAL None
- DIAMETER OF BOREHOLE 6.25"

L₁ = 0.5 FT
 L₂ = 17 FT
 L₃ = 15 FT
 L₄ = 32 FT

MONITORING WELL WATER LEVEL MEASUREMENTS		
DATE	TIME	WATER LEVEL =

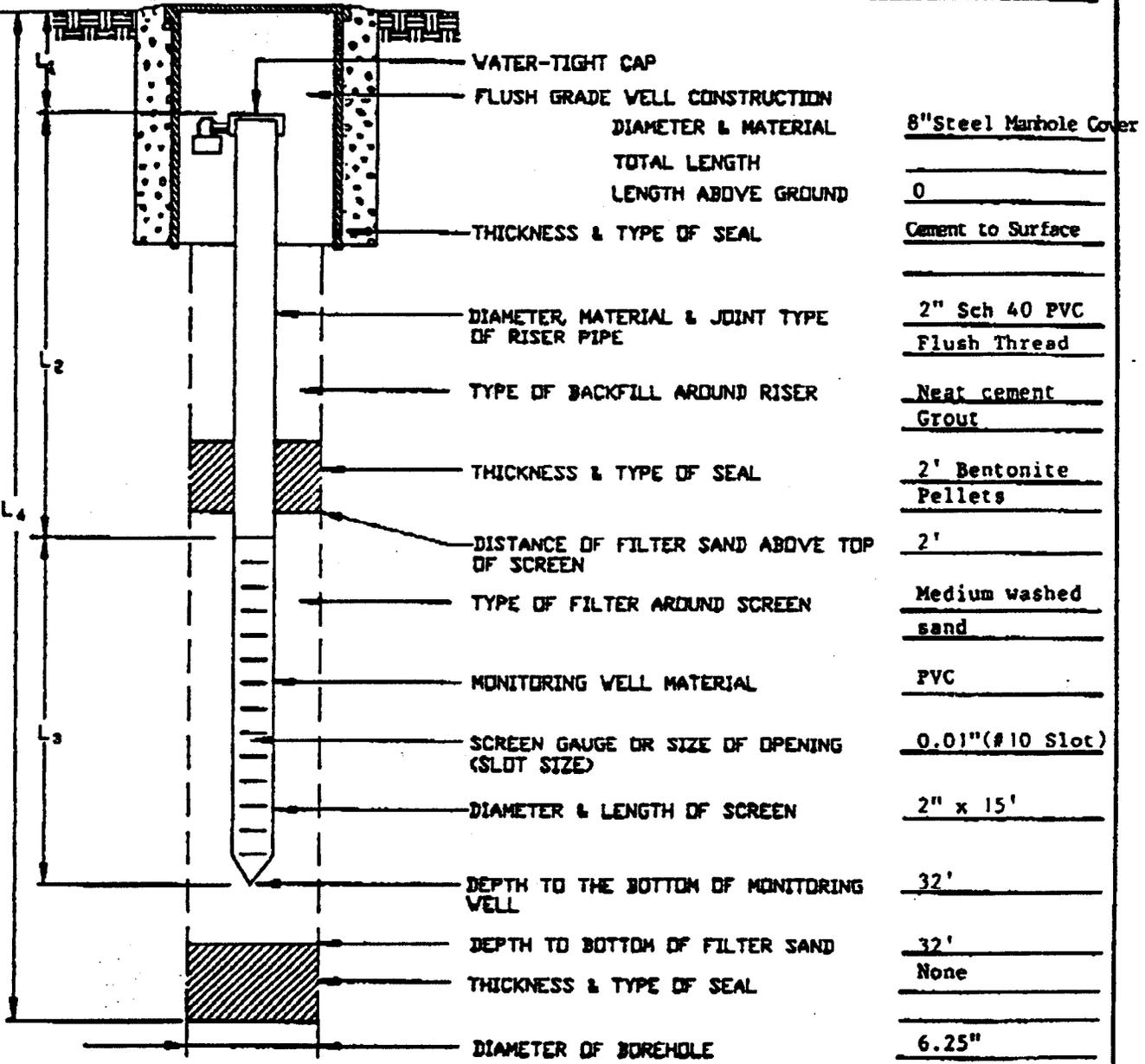
INSTALLATION COMPLETED:
 DATE: 3-29-93
 TIME: _____

(*) DEPTH BELOW TOP OF RISER BOX _____



INSTALLATION OF FLUSH GRADE MONITORING WELL

PROJECT: Exxon U.S.A. Greensboro, NC MONITORING WELL NO. MW-6
 JOB NO. 50-92-037.01 TOP OF RISER ELEVATION: _____



- 8" Steel Manhole Cover
- 0
- Cement to Surface
- 2" Sch 40 PVC
Flush Thread
- Neat cement
Grout
- 2' Bentonite
Pellets
- 2'
- Medium washed
sand
- PVC
- 0.01" (#10 Slot)
- 2" x 15'
- 32'
- 32'
- None
- 6.25"

L₁ = 0.5 FT
 L₂ = 17 FT
 L₃ = 15 FT
 L₄ = 32 FT

INSTALLATION COMPLETED:
 DATE: 3-29-93
 TIME: _____

MONITORING WELL WATER LEVEL MEASUREMENTS		
DATE	TIME	WATER LEVEL ■

(■) DEPTH BELOW TOP OF RISER BOX _____



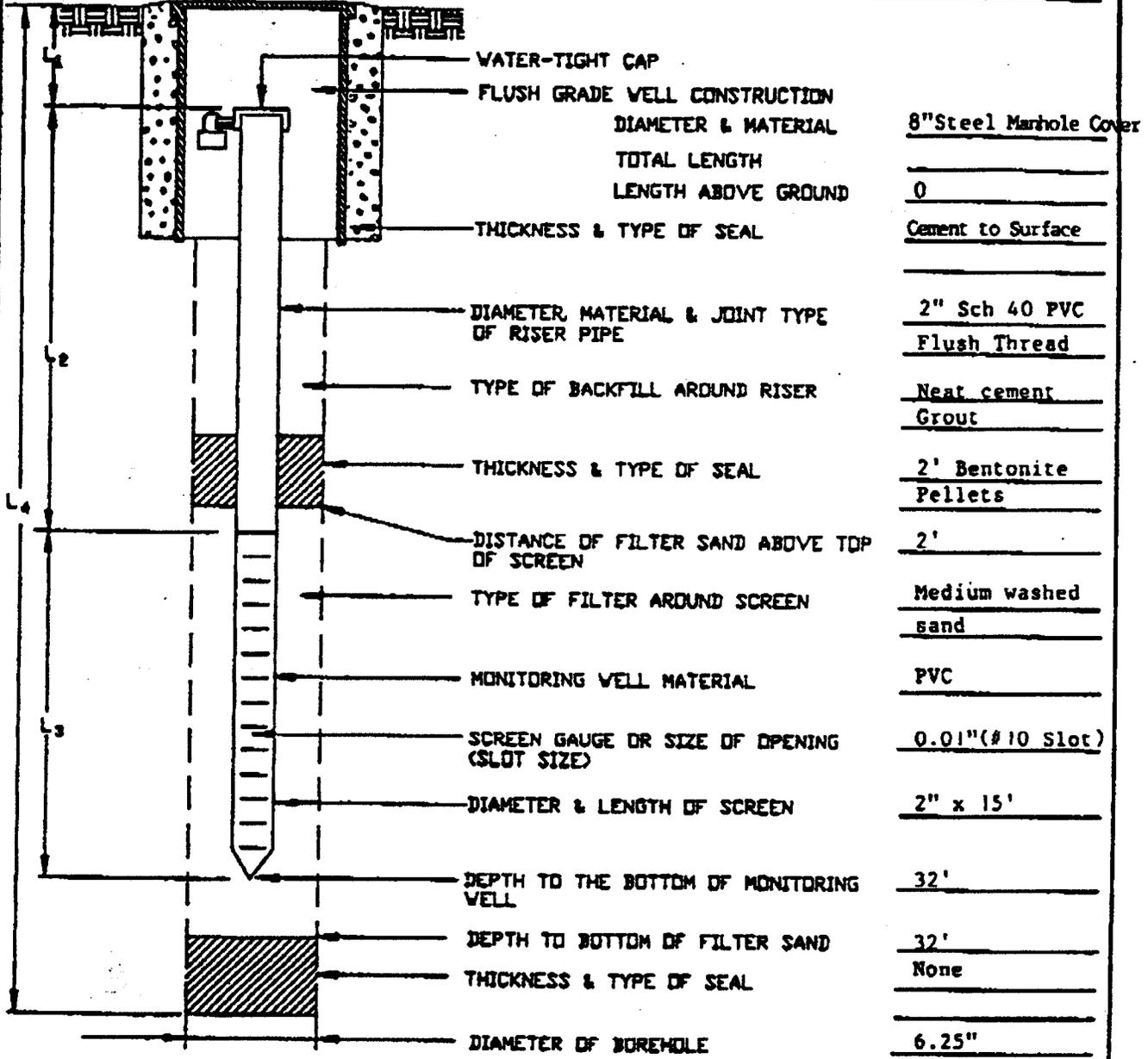
INSTALLATION OF FLUSH GRADE MONITORING WELL

PROJECT: Exxon U.S.A. Greensboro, NC

MONITORING WELL NO. MW-7

JOB NO. 50-92-037.01

TOP OF RISER ELEVATION: _____



8" Steel Manhole Cover

0

Cement to Surface

2" Sch 40 PVC
Flush Thread

Neat cement
Grout

2' Bentonite
Pellets

2'

Medium washed
sand

PVC

0.01" (#10 Slot)

2" x 15'

32'

32'

None

6.25"

L₁ = 0.5 FT
 L₂ = 17 FT
 L₃ = 15 FT
 L₄ = 32 FT

DATE	TIME	WATER LEVEL #

INSTALLATION COMPLETED:
 DATE: 3-29-93
 TIME: _____

(#) DEPTH BELOW TOP OF RISER BOX _____



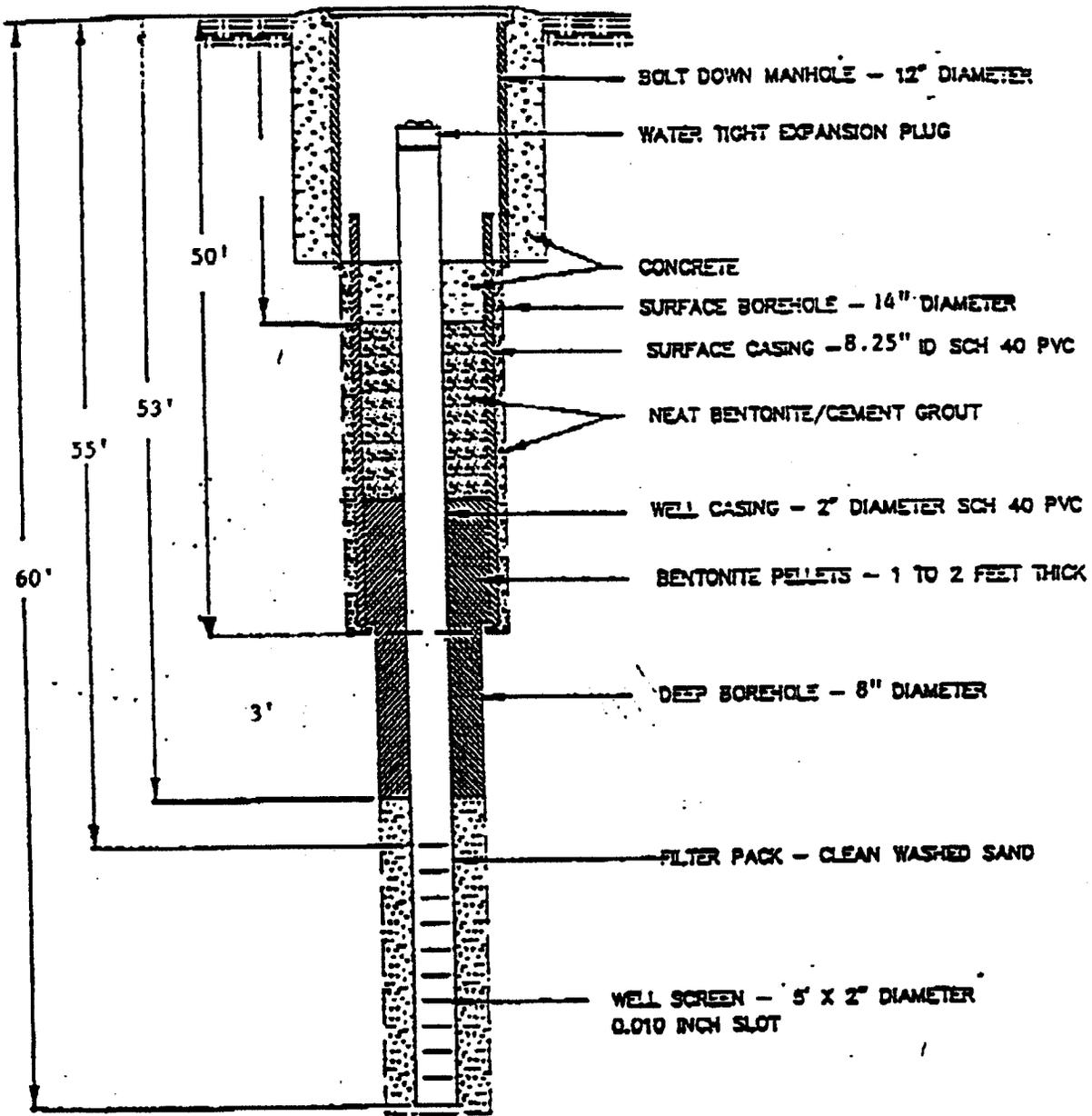


FIGURE
INSTALLED DETAIL MONITORING WELL

DW-8

NOTE: DRAWING NOT TO SCALE

PROJECT NO

DRAWN BY

C.S.G.

DATE

CAD NO.

REVIEW BY

7-15-91

027-IDMW



Delta
Environmental
Consultants, Inc.

DIVISION OF ENVIRONMENTAL MANAGEMENT - GROUNDWATER SECTION
P.O. BOX 27687 - RALEIGH, N.C. 27611, PHONE (919) 733-5083

Quad. No. _____ Serial No. _____
 Lat. _____ Long. _____ Pa. _____
 Minor Basin _____
 Basin Code _____
 Header Ent. _____ GW-1 Ent. _____

WELL CONSTRUCTION RECORD MW-9

DRILLING CONTRACTOR Groundwater Protection Inc.
 DRILLER REGISTRATION NUMBER 1105

STATE WELL CONSTRUCTION PERMIT NUMBER: WM 0400140

WELL LOCATION: (Show sketch of the location below)
 Nearest Town: Greensboro
4141 Spring Garden Street
 (Road, Community, or Subdivision and Lot No.)
 OWNER Exxon Company USA
 ADDRESS PO Box 30451
Charlotte (Street or Route No.) NC 28230
 City or Town State Zip Code
 DATE DRILLED 12/6/95 USE OF WELL monitor
 TOTAL DEPTH 30' CUTTINGS COLLECTED Yes No
 DOES WELL REPLACE EXISTING WELL? Yes No
 STATIC WATER LEVEL: 20.6 FT. above TOP OF CASING.
 TOP OF CASING IS 0 FT. below ABOVE LAND SURFACE.
 YIELD (gpm): _____ METHOD OF TEST _____
 WATER ZONES (depth): _____
 CHLORINATION: Type _____ Amount _____

County: Guilford

Depth		DRILLING LOG Formation Description
From	To	
0	16	Orange-red silty clay
16	30	Gray-red clayey silt sparrolite w/ relic struc

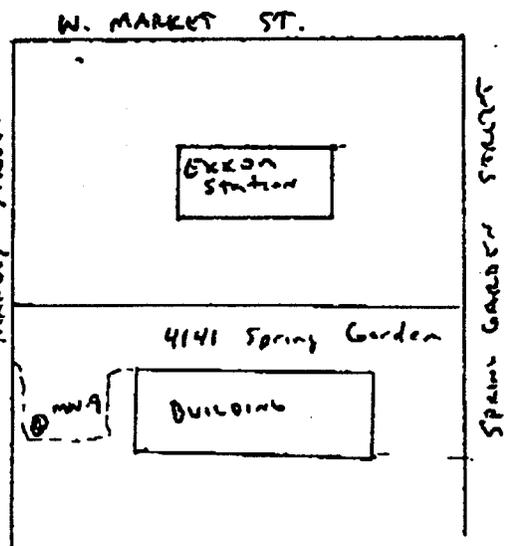
1. CASING:

From	To	Depth	Diameter	Wall Thickness or Weight/Ft.	Material
0	15	15	8.2"	SCH 40	PVC

If additional space is needed use back of form.
LOCATION SKETCH
 (Show direction and distance from at least two State Roads, or other map reference points)

1. GROUT:

From	To	Depth	Material	Method
0	11	11	concrete	pour



2. SCREEN:

From	To	Depth	Diameter	Slot Size	Material
15	30	15	2"	.01 in.	PVC

1. GRAVEL PACK:

From	To	Depth	Size	Material
13	30	17	medium	sand

REMARKS: Denture seal 11-13 ft.

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15 NCAC 2C. WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

[Signature] SIGNATURE OF CONTRACTOR OR AGENT
12/18/95 DATE
 Submit original to Division of Environmental Management and copy to well owner.

DIVISION OF ENVIRONMENTAL MANAGEMENT - GROUNDWATER SECTION
P.O. BOX 27087 - RALEIGH, N.C. 27611, PHONE (919) 733-5083

FOR OFFICE USE ONLY

Quad. No. _____ Serial No. _____
Lat. _____ Long. _____ Pc _____
Minor Basin _____
Basin Code _____
Header Ent. _____ GW-1 Ent. _____

WELL CONSTRUCTION RECORD AS/EP-1

DRILLING CONTRACTOR Southeastern Environmental Services

DRILLER REGISTRATION NUMBER 1141

STATE WELL CONSTRUCTION PERMIT NUMBER: _____

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: Greensboro
4701 W. Market Street
(Road, Community, or Subdivision and Lot No.)

County: Guilford

2. OWNER Exxon Company USA
ADDRESS PO Box 30451
Charlotte NC 28230
(Street or Route No.)
City or Town State Zip Code

Depth		DRILLING LOG Formation Description
From	To	
0	8'	red clay - very firm
8'	40'	orange, brown, red, tan clayey silt, saprolite

3. DATE DRILLED 3-8-94 USE OF WELL Air Space Pilot Test

4. TOTAL DEPTH 40' CUTTINGS COLLECTED Yes No

5. DOES WELL REPLACE EXISTING WELL? Yes No

5. STATIC WATER LEVEL: _____ FT. above TOP OF CASING, below TOP OF CASING IS _____ FT. ABOVE LAND SURFACE.

7. YIELD (gpm): _____ METHOD OF TEST _____

3. WATER ZONES (depth): _____

1. CHLORINATION: Type _____ Amount _____

0. CASING:

AS	From	Depth	To	Ft.	Diameter	Wall Thickness or Weight/Ft.	Material
	0		38		2"	SCH 40	PVC
EP	0		8		2"	SCH 40	PVC
	From		To	Ft.			

If additional space is needed use back of form.

LOCATION SKETCH

(Show direction and distance from at least two State Roads, or other map reference points)

1. GROUT:

From	Depth	To	Ft.	Material	Method
0		4		neat cement	pour
From		To	Ft.		

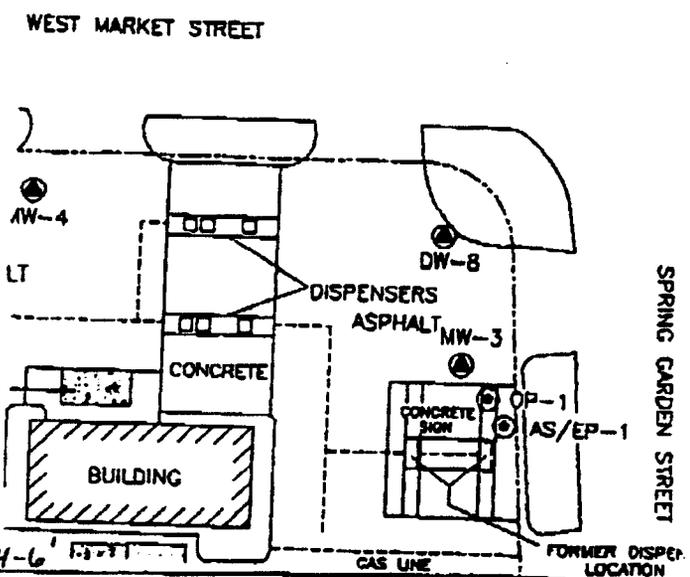
2. SCREEN:

AS	From	Depth	To	Ft.	Diameter	Slot Size	Material
	38		40		2"	.010 in.	PVC
EP	8		25		2"	.010 in.	PVC
	From		To	Ft.			

1. GRAVEL PACK:

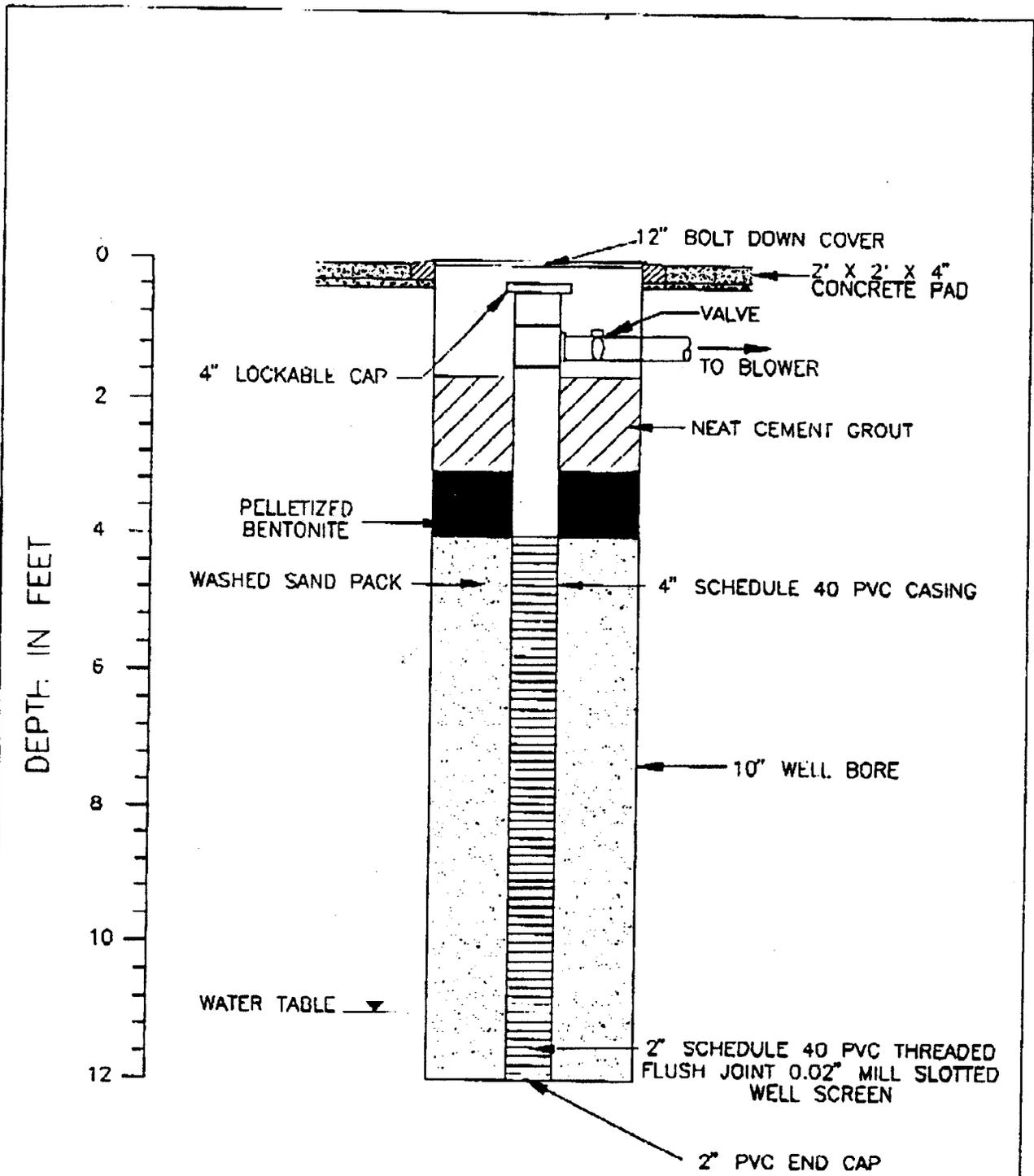
AS	From	Depth	To	Ft.	Size	Material
	35	6	40			sand
EP	6		25			sand
	From		To	Ft.		

REMARKS: AS - bentonite seal 33 - 35, EP bentonite seal 4 - 6'



I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15 NCAC 2C. WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

SIGNATURE OF CONTRACTOR OR LOCAL _____

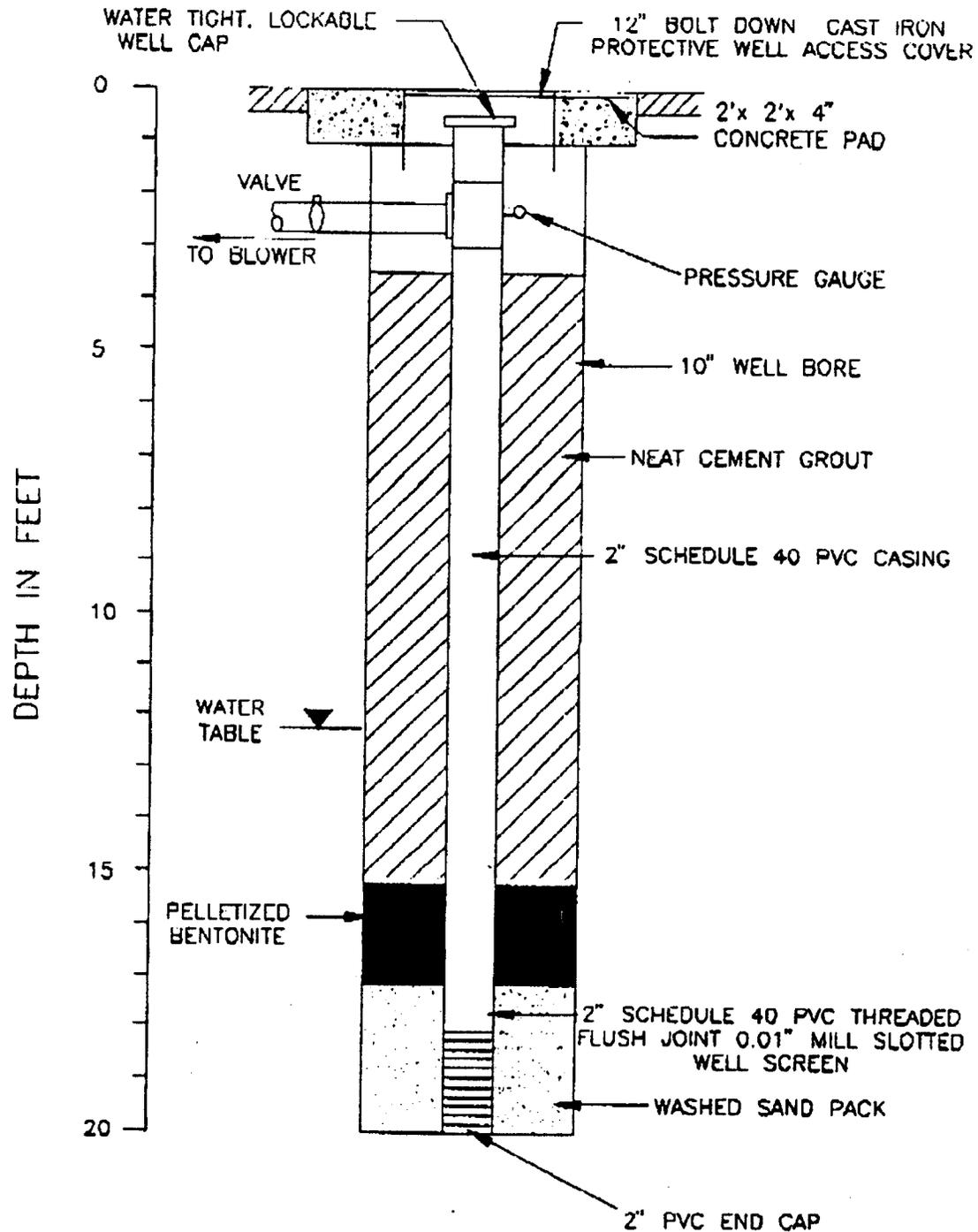


EXXON COMPANY, U.S.A.
 EXXON COMPANY, U.S.A.
 RETAIL LOCATION 4-399B
 GREENSBORO, NORTH CAROLINA

FIGURE 11.
 TYPICAL VAPOR EXTRACTION
 POINT CONSTRUCTION DIAGRAM

75449VE.DWG
 1/25/94:KM/JP

 ERM-SOUTHEAST, INC
 CHARLOTTE, NC



RXXON COMPANY, U.S.A.
 RETAIL LOCATION 4-3988
 GREENSBORO, NORTH CAROLINA

FIGURE 10.
 TYPICAL AIR SPARGING POINT
 CONSTRUCTION DIAGRAM



ERM-SOUTHEAST, INC
 CHARLOTTE, NC

754445.DWG
 1/27/84.KM/JP