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To R

**Olin** CHEMICALS

LOWER RIVER RD., P.O. BOX 248, CHARLESTON, TN 37310

January 14, 1993

Phillip Masters  
Hazardous Waste Facilities Branch  
United States Environmental Protection Agency  
Region II  
26 Federal Plaza, Room 1037  
New York, New York 10278

Re: DuPont Well Construction Drawings  
Olin Corporation  
Niagara Falls, NY, Plantsite  
EPA ID No. NYD002123461, Index No. RCRA-3013-0208  
RCRA Facility Investigation

Dear Mr. Masters:

Per your request, enclosed are the construction (completion) drawings for DuPont A-, B-, C-, and CD-zone monitoring wells bordering Olin property. We are including drawings from these wells so your information about the relevant geology at each location is as complete as possible. Olin proposes to use data from a subset of this group (see list below) to evaluate migration from Olin property. The subset consists of those wells that DuPont samples under their groundwater monitoring program. Olin believes this subset is appropriate because: the DuPont C-zone wells monitor intervals that are not major water-bearing fractures (except 22C), well 19CD-2 monitors the same interval as 19CD-1, and well 22A has been decommissioned because it was dry.

Well List  
(DuPont Data Sent to EPA January 8, 1992)

14A	19B	22C
15A	20B	15CD
19A	22B	19CD-1
20A		26CD

We sent you the data from DuPont's most recent two samplings of these wells on January 8. While the data do not include mercury, Olin's most widespread contaminant, we believe they are adequate to evaluate migration from Olin property. The data include most other constituents found in significant concentration on Olin property. The data are recent and of high quality based on the validation. The data include hexachlorocyclohexane (BHC) data, which can be used in particular to illustrate that little horizontal migration has occurred in the past. BHC is considered an Olin fingerprint compound in this area. It is more soluble in groundwater than mercury and is very stable. BHC was detected at very low concentrations in only two wells, 15CD and 19CD-1. BHC was not detected in the other nine wells under consideration.


Phillip Masters  
Transmittal of DuPont Well Drawings  
Olin NF RFI  
Page 2

We hope that your review of the data leads you to the same conclusion we reached. If it does not, we suggest that any additional analytical burden be focused on mercury from selected wells, with use of DuPont data for the organics.

Please call (615-336-4308) if you have any questions about this submission or any of the work under the RFI.

Sincerely,

OLIN CORPORATION



J. C. Brown  
Manager, Environmental Technology

\jcb\178  
Enclosure

cc: P. Counterman (2)  
W. G. McGlasson  
K. R. McIntosh  
G. C. Meyer  
J. P. Mitchell  
S. F. Radon  
A. D. Rheingold  
Permits Admin. Branch - EPA

January 12, 1993

Mr. James C. Brown  
Olin Chemicals  
Lower River Road  
Charleston, Tennessee 37310

Re: Well Completion Diagrams for Du Pont Monitoring Wells


Dear Mr. Brown:

Mr. R. Gentilucci of Du Pont has authorized Woodward-Clyde Consultants (WCC) to provide Olin with copies of construction diagrams for Du Pont Niagara Plant monitoring wells located near the perimeter of the Olin Buffalo Avenue Plant. Well construction diagrams are attached for the following Du Pont wells: 14A, 15A, 19A, 20A, 19B, 20B, 22B, 14C, 15C, 19C, 22C, 26C, 15CD, 19CD-1, 19CD-2, and 26CD.

Four of these wells (14C, 15C, 19C and 26C) monitor bedrock intervals which are not considered to penetrate major water-bearing fracture zones at the site, and are therefore not included in Du Pont's groundwater monitoring program. In addition, one well (19CD-2) is not sampled by Du Pont because groundwater in this interval is monitored using Well 19CD-1. The remaining 11 of these wells are sampled periodically by Du Pont for selected chemical analyses.

If you have any questions on the attached drawings, please contact the undersigned.

Sincerely,



Kelly R. McIntosh, P.E., P.HGW.  
Associate

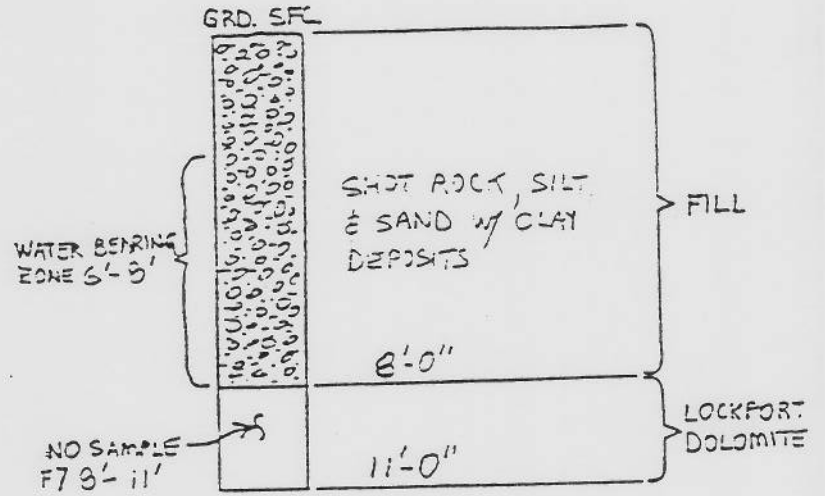
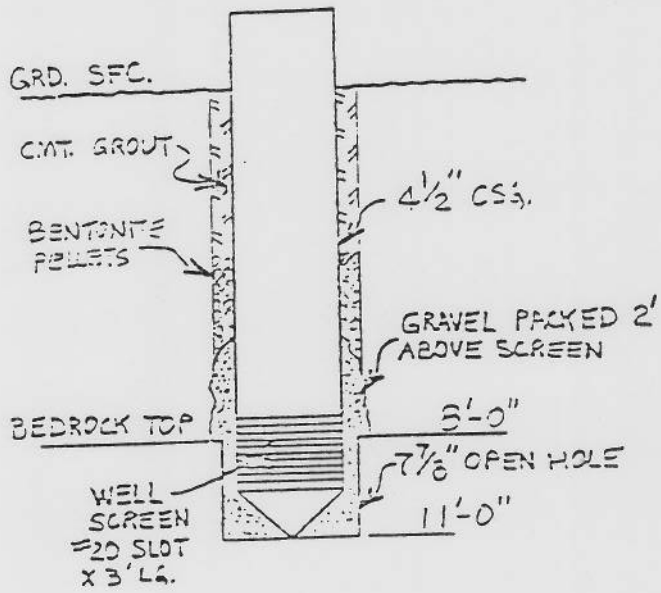
KRM:jee



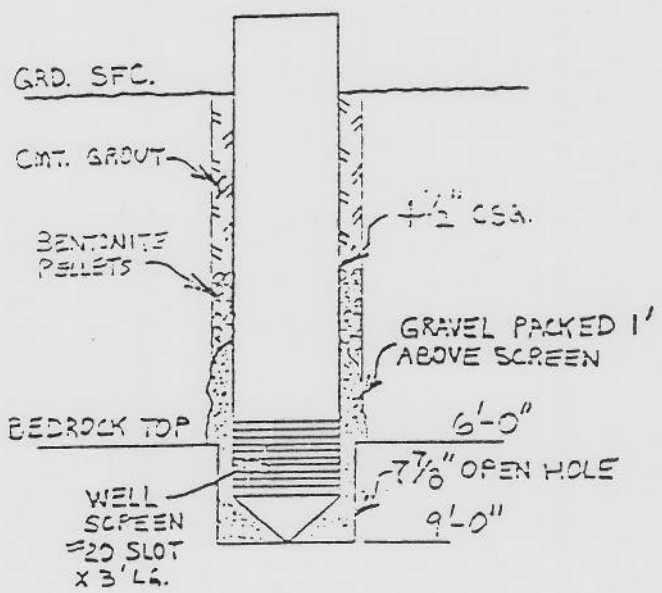
**Attachments**

WELL # 14-A

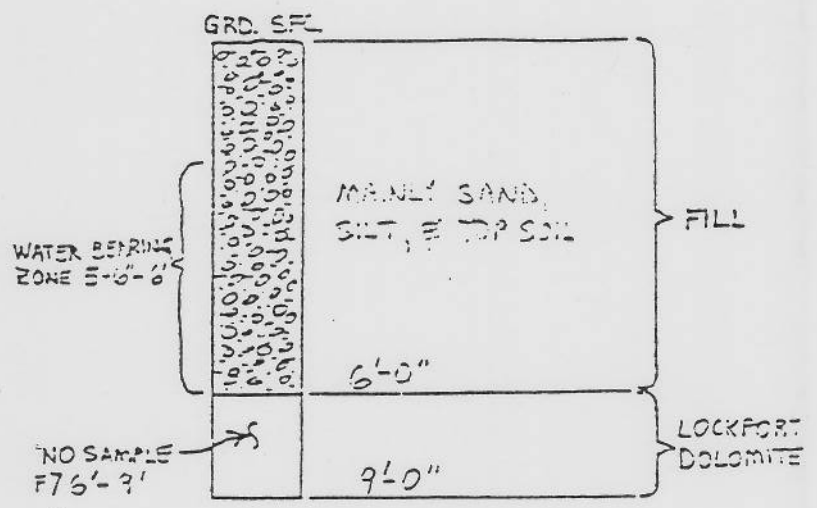
GEOLOGY OF # 14-A



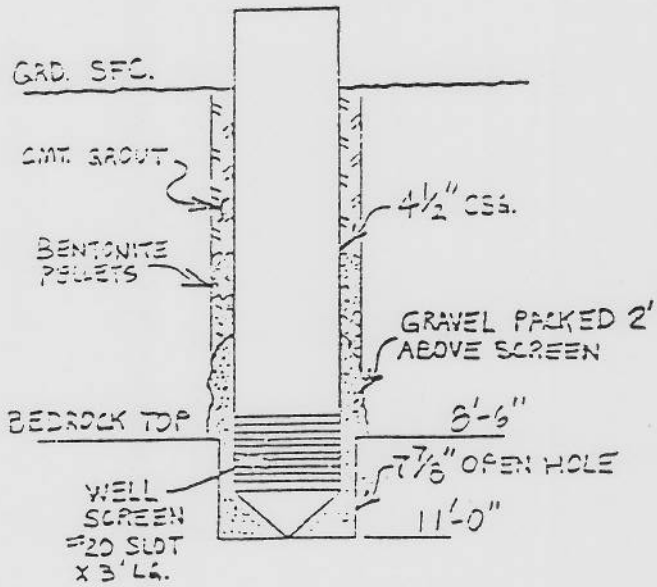
WELL # 15-A



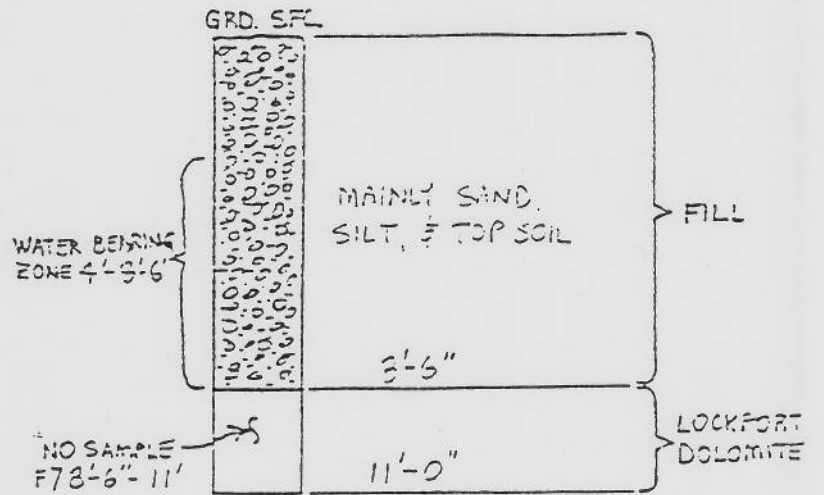
GEOLOGY OF # 15-A



WELL # 19-A



GEOLOGY OF # 19-A



SUMMARY OF WELL INSTALLATION

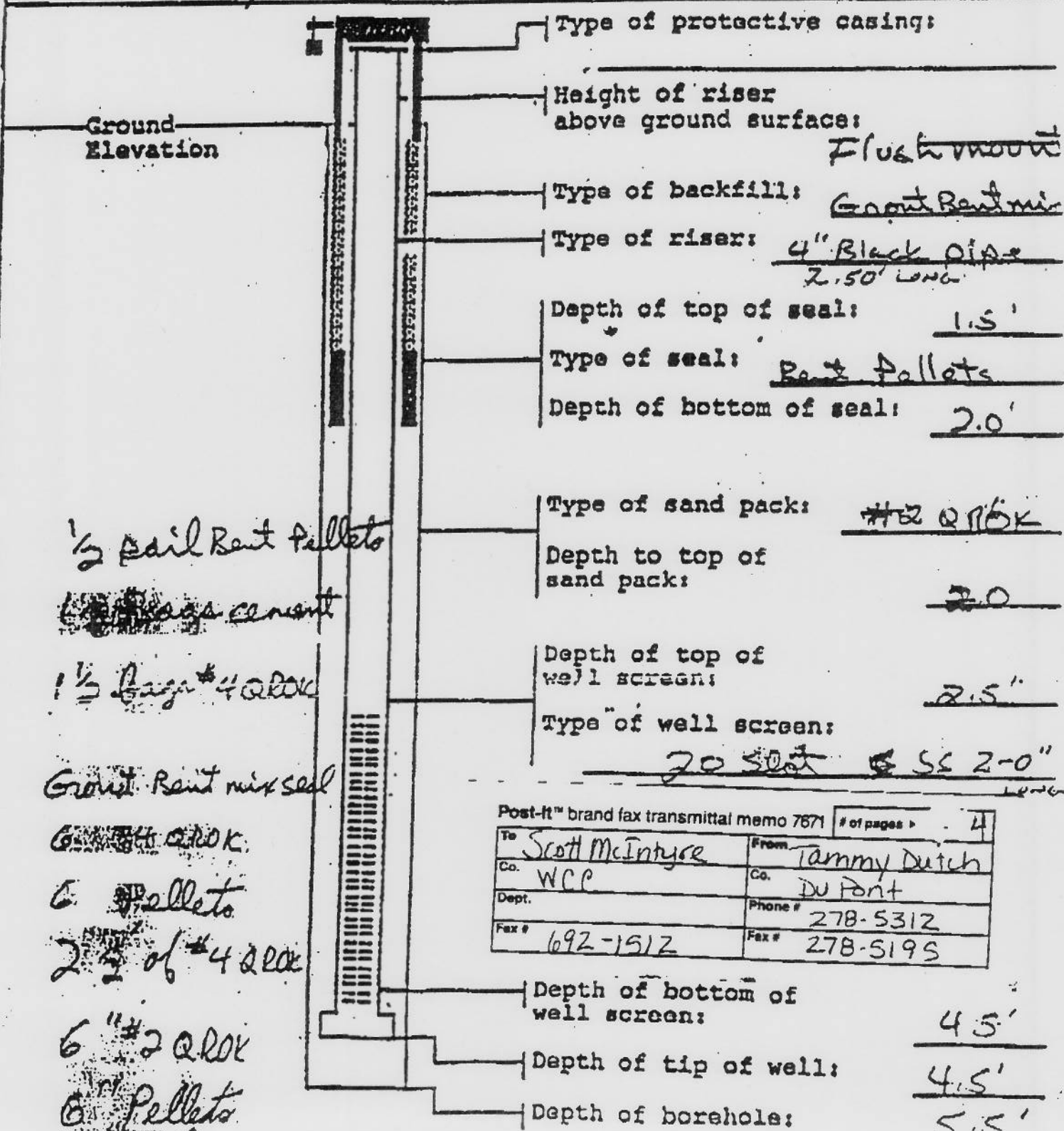
SODIUM AREA - BLDG 18

BUFFALO DRILLING COMPANY, INC. IN CENTER OF ASPHALT DRIVE, GATE 18  
955 Niagara Street  
Buffalo, New York 14213

MW 20-AR

CLIENT: H.F. Darling  
PROJECT: Dupont  
FILE NO:

BORING NO: B-1  
DATE STARTED: 1-29-91  
DATE COMPLETED: \_\_\_\_\_

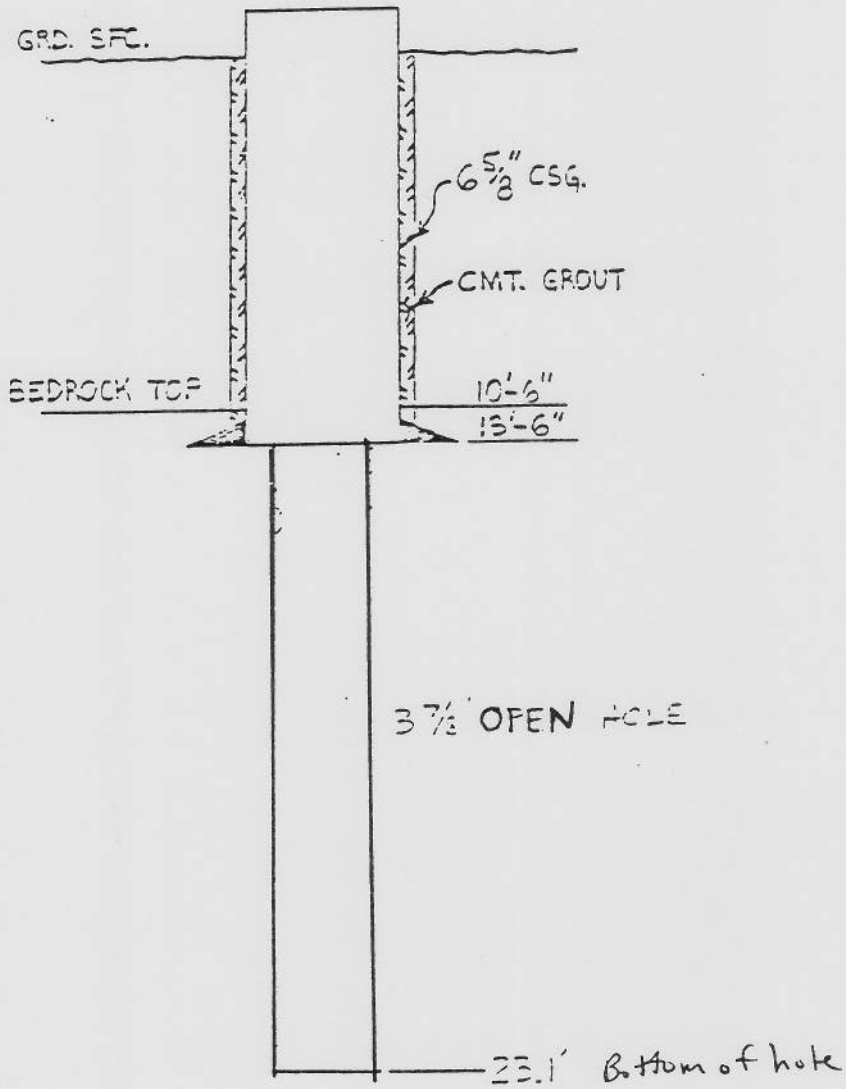


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To	Scott McIntyre	From	Tammy Dutch
Co.	WCC	Co.	Du Pont
Dept.		Phone #	278-5312
Fax #	692-1512	Fax #	278-5195



WELL # 19-B



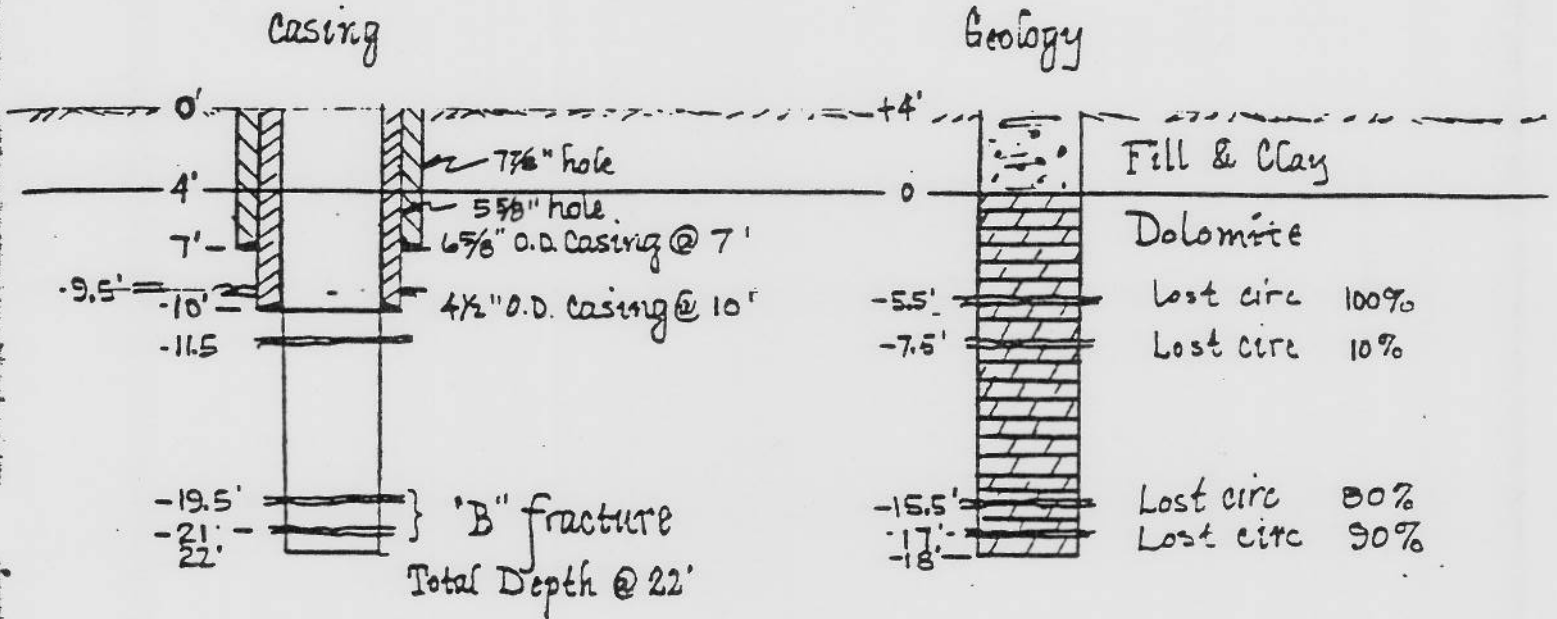
DuPont Exploratory Drilling Program  
Well No 20-B

Spud 5-16-84

Hassell E Farmer

Plant Site

5-18-84



No odors detected

*H* 5-18-84

Scale 1" = 10'

surface elevation 570.1'

DuPont Exploratory Drilling Program  
Well No. 22-B

22-B

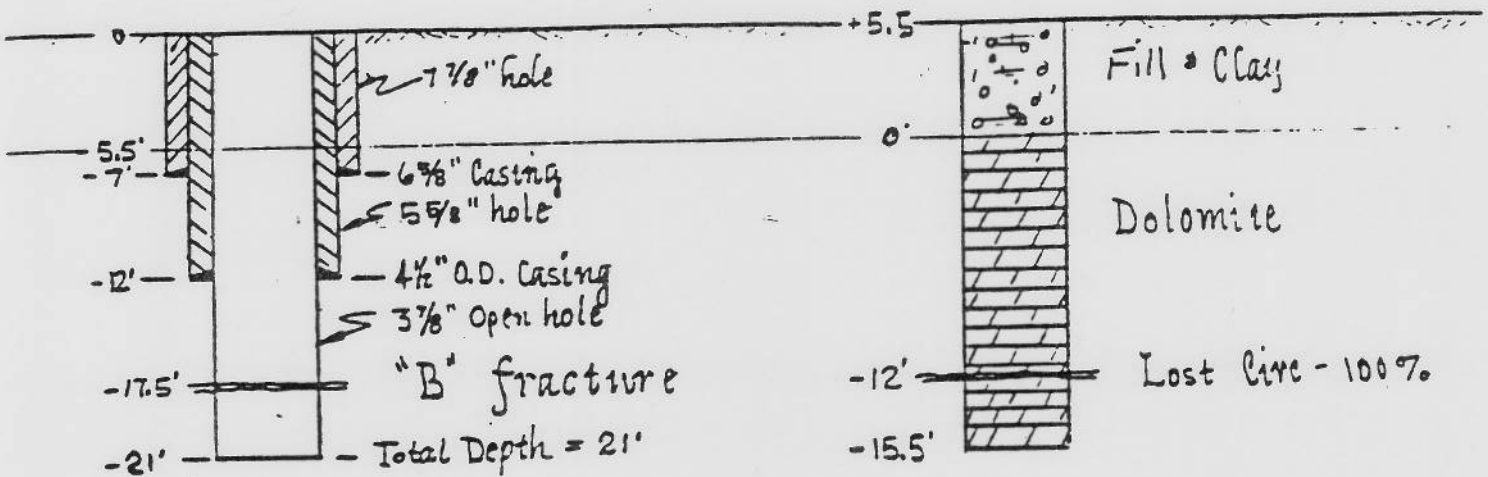
Spud 5-14-84

Hassell E. Hurder

5-15-84

Casing

Geology



No odor detected

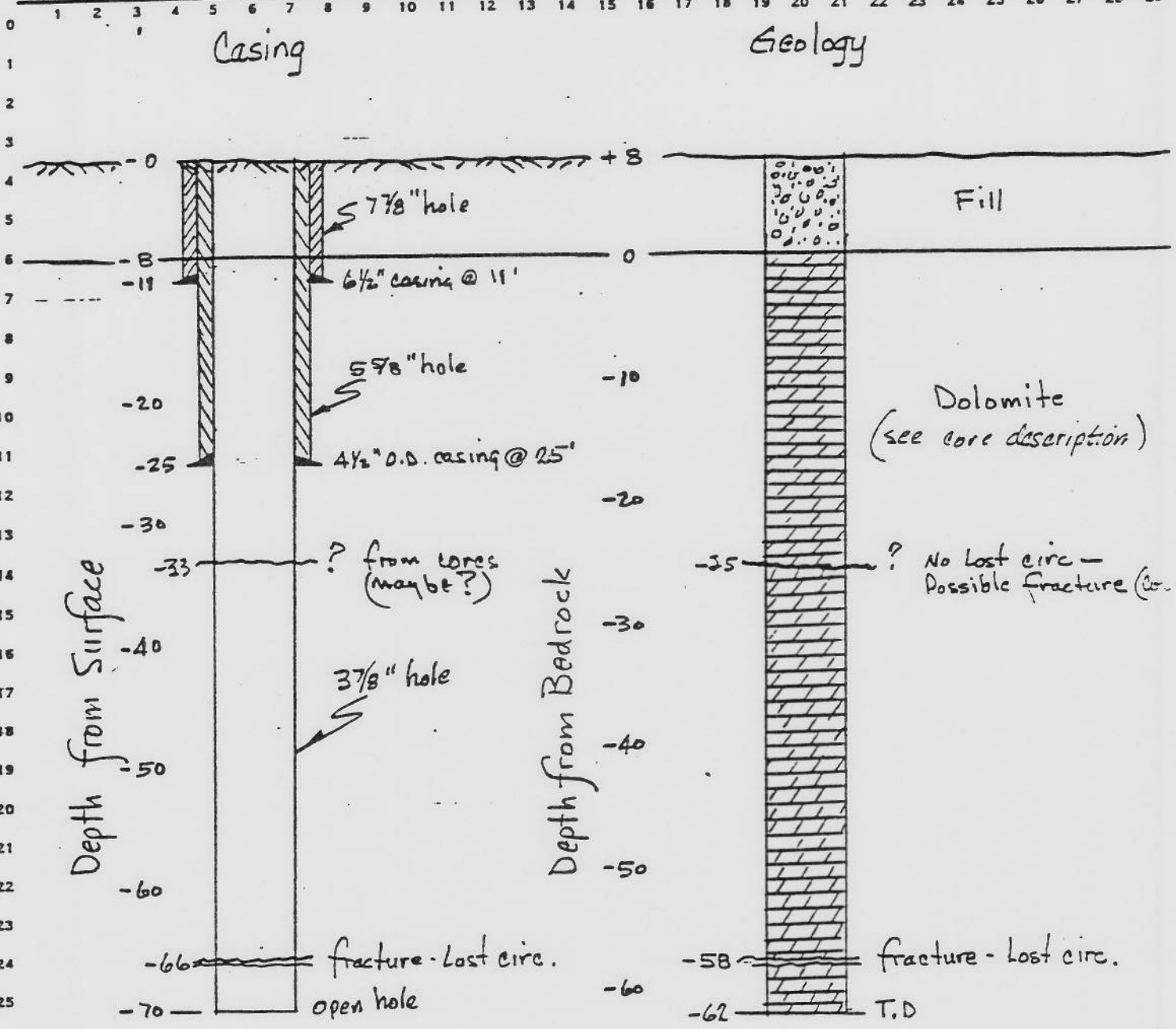
*JH* 5/15/84

Scale 1" = 10'

TITLE OF PROJ. OR STUDY DuPont Exploratory Drilling Program PROJ. OR STUDY NO. \_\_\_\_\_

SUBJECT Well No. 14-c WORKS Plant Site

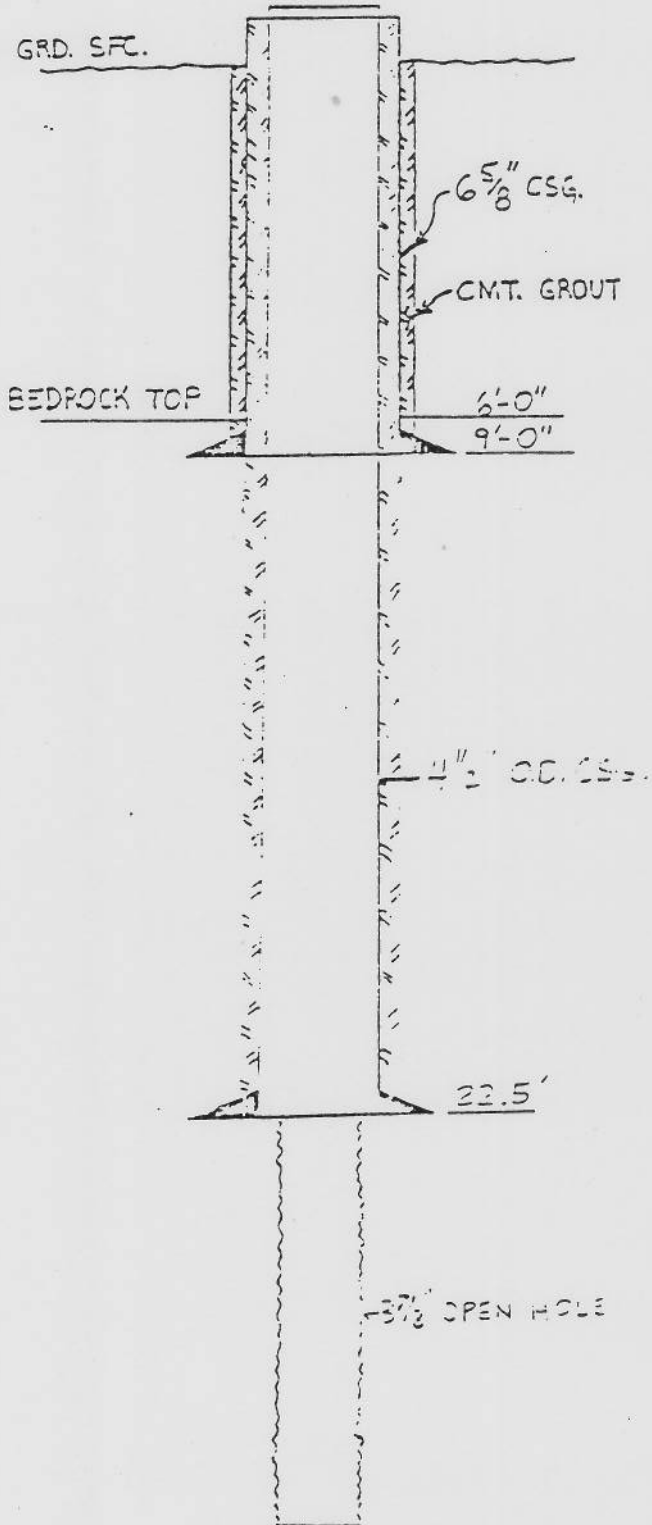
COMPUTER H.E. Hunter DATE 10-6 19 83



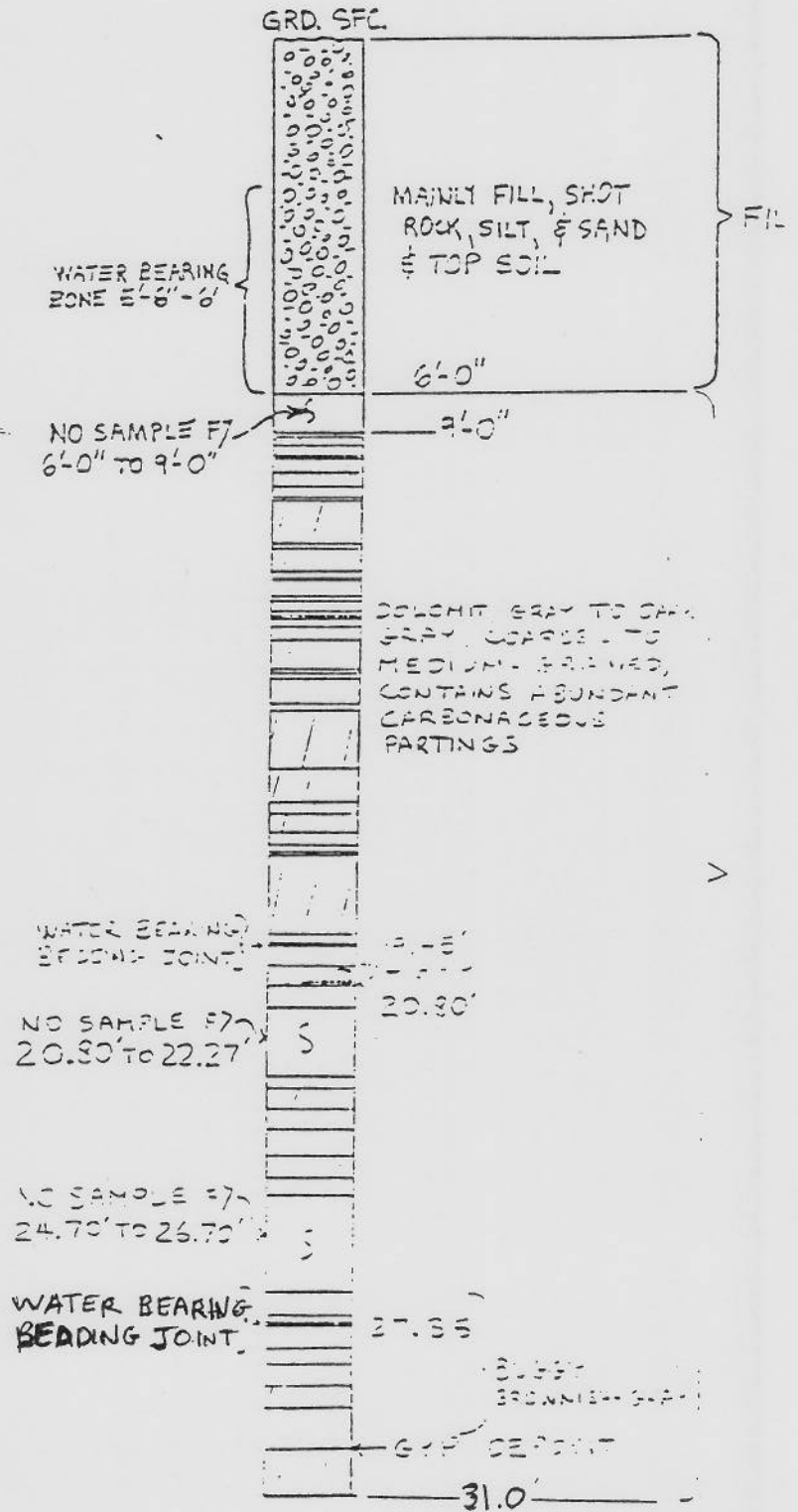
*JH* 10/6/83

36

# WELL #15-C



# GEOLOGY OF #15-C



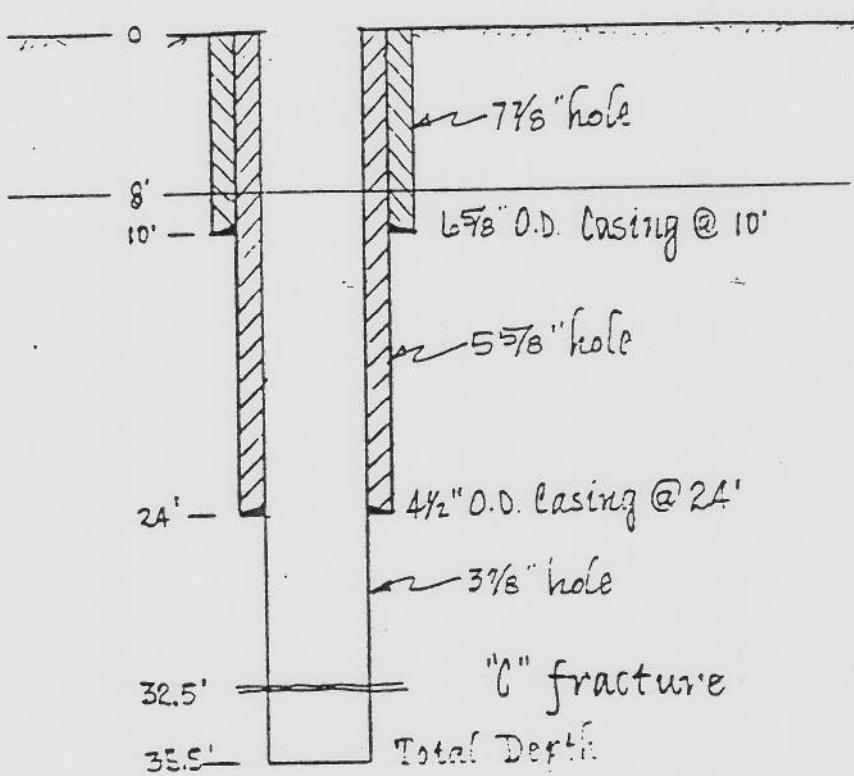
DuPont Exploratory Drilling Program  
Well No. 19-C

19-C  
Plant Site  
5-22-84

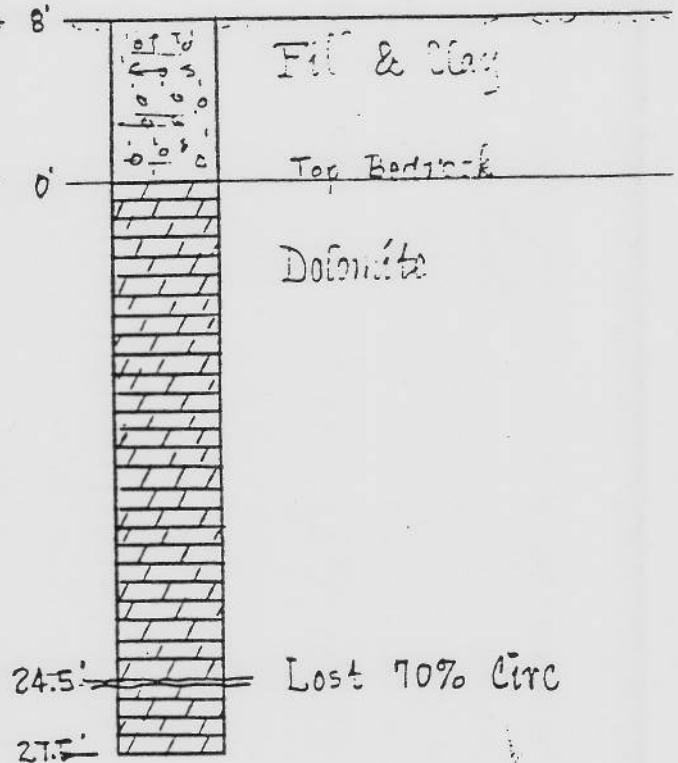
Spud 5-21-84

Hassell E. Hunter

Casing



Geology



No odor detected

*JH* 5/22/84

Scale 1" = 10'

Du Pont Monitoring Wells  
 Plant Well No. 26-C

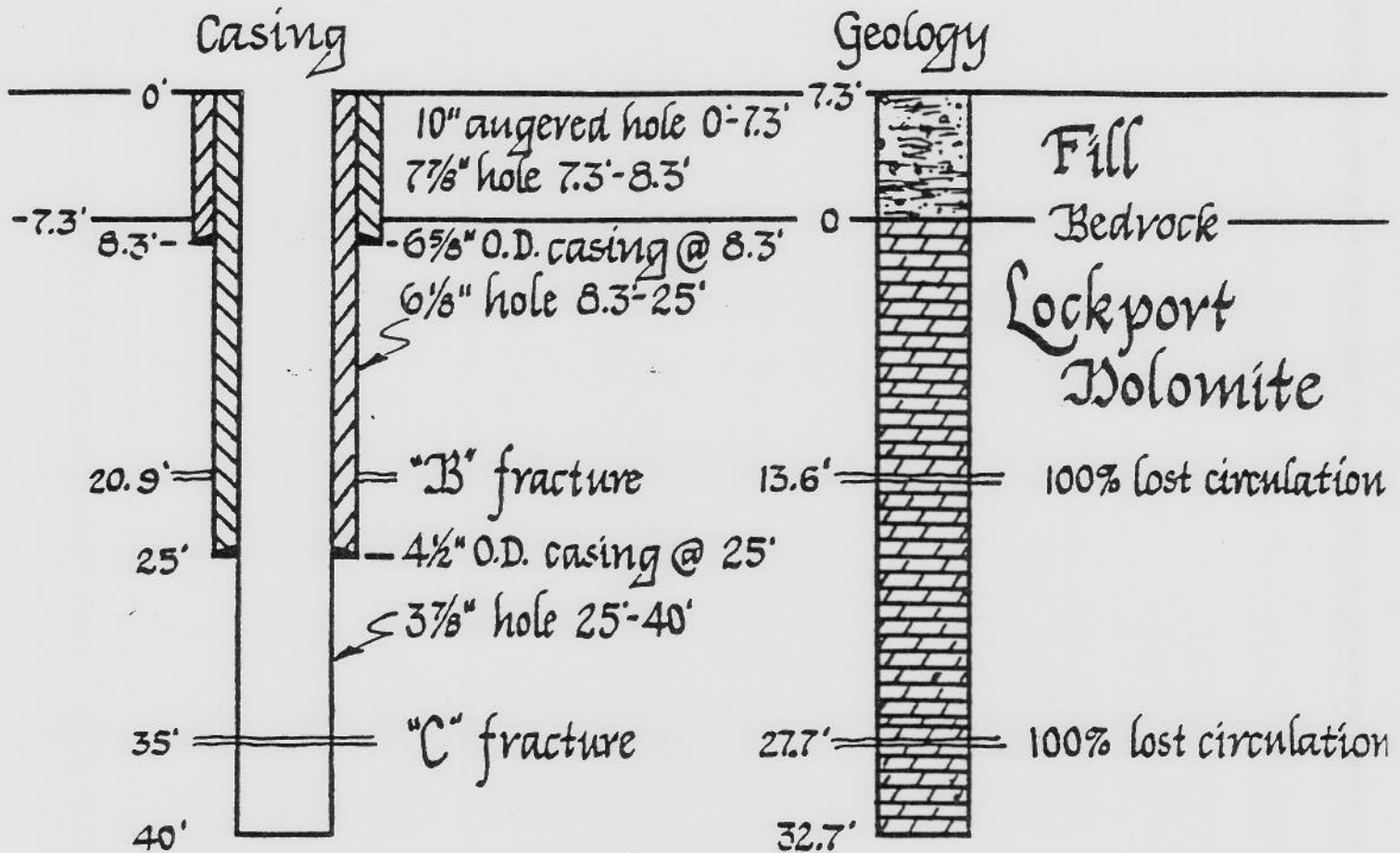
26-C  
 Plant Site 26

Spudded February 10, 1986

Fassell Hunter

February 12 1986

# Plant Well No. 26-C



Total Depth = 40'

- Core #1 8.3'-18.3'
- Core #2 18.3'-25'
- Core #3 25'-35'
- Core #4 35'-40'

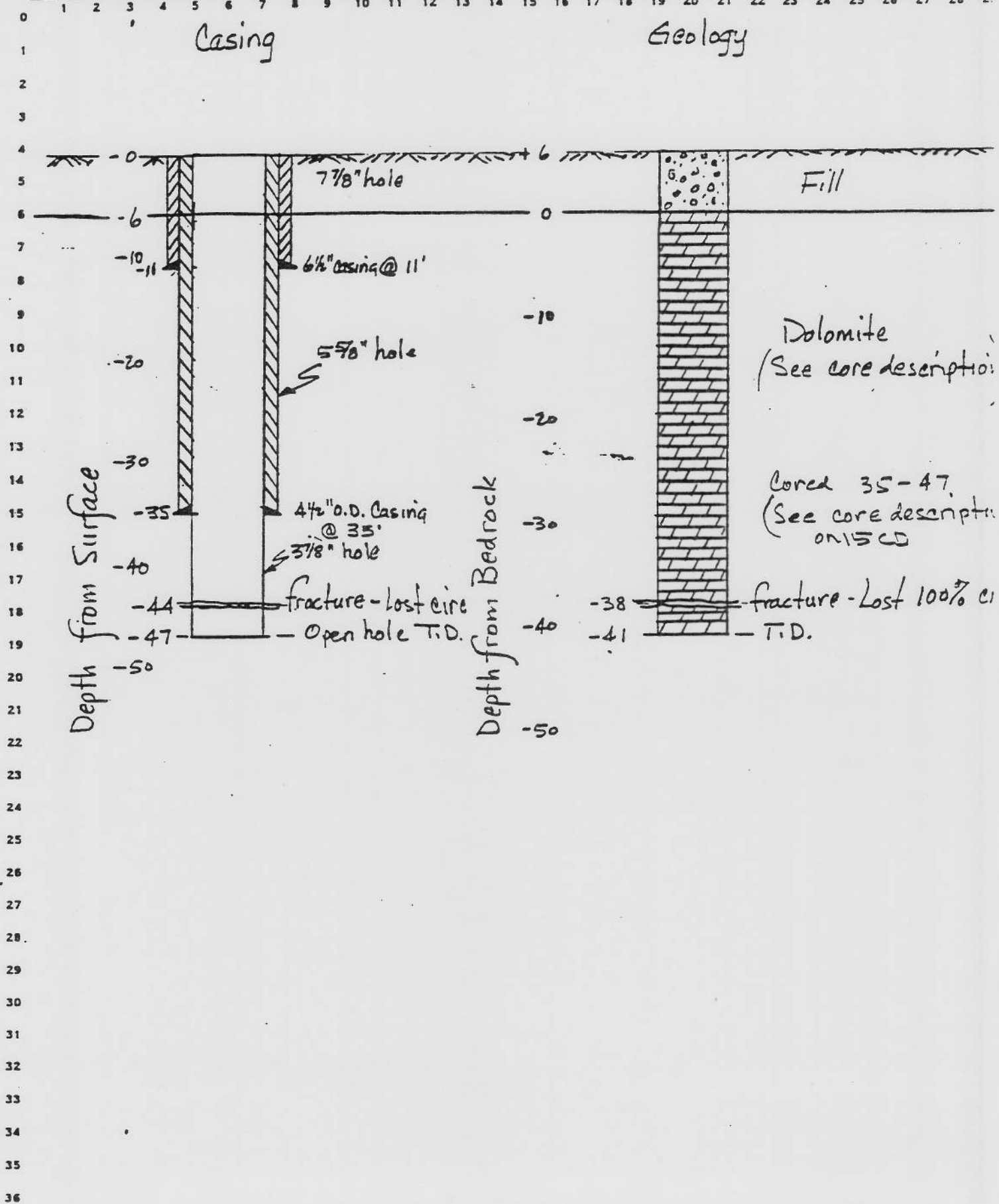
Vertical Scale 1" = 10'

*FH* 2-12-86

TITLE OF PROJ. OR STUDY DuPont Exploratory Drilling Program PROJ. OR STUDY NO. \_\_\_\_\_

SUBJECT Well No. 15-CD WORKS Plant Site

COMPUTER H.E. Hunter DATE \_\_\_\_\_ 19\_\_



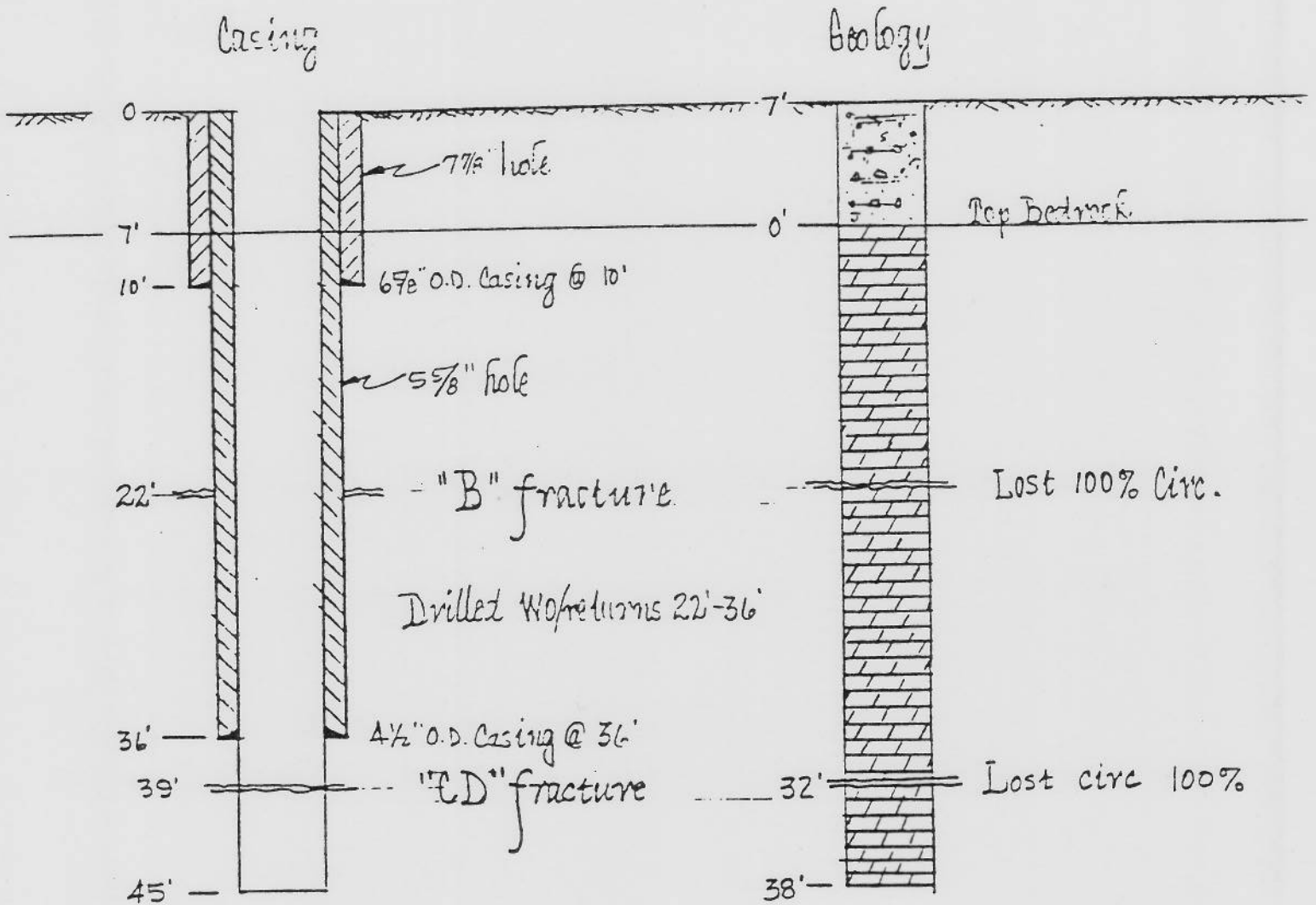


DuPont Exploratory Drilling Program  
Well No 19-CD #1

Spud 5-23-84

Hassell E. Hunter

Plant Site 19  
5-25-84



No Odors

JH 5/25/84

Scale 1" = 10'

DuPont Exploratory Drilling Program

19-CD#

Well No. 19-CD#2

Spud 5-4-84

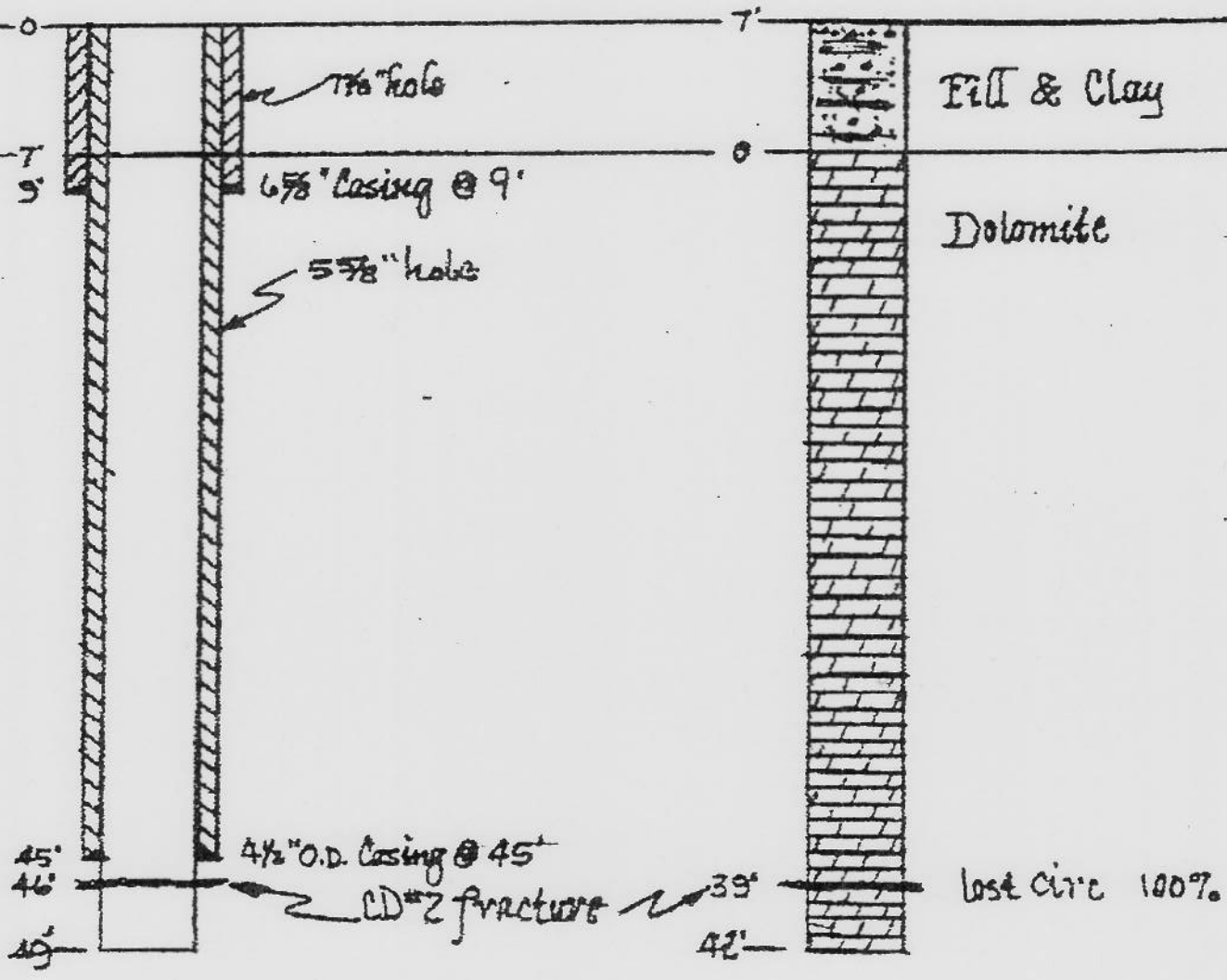
Fossell E. Hunter

5-6-

84

Casing

Geology



No Odor Encountered

*F. E. Hunter*  
5/4/84

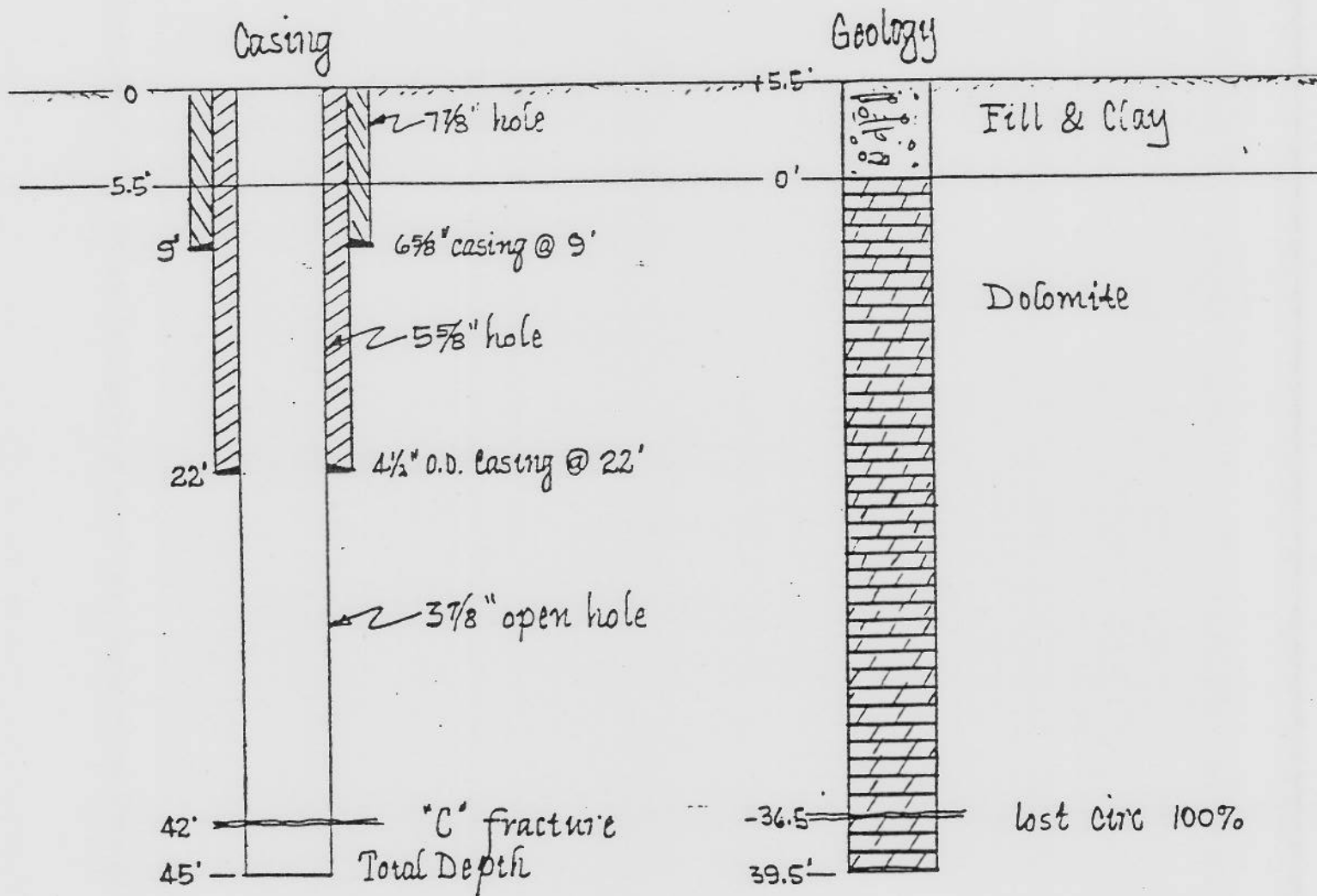
DuPont Exploratory Drilling Program  
Well No 22-C

22-C  
Parking Lot

Spud 5-15-84

Fassell E Hunter

5-17-84



No odor detected

*FH* 5/17/84

Scale 1" = 10'

Du Pont Monitoring Wells  
Plant Well No. 26-CD

26-CD  
Plant Site 2

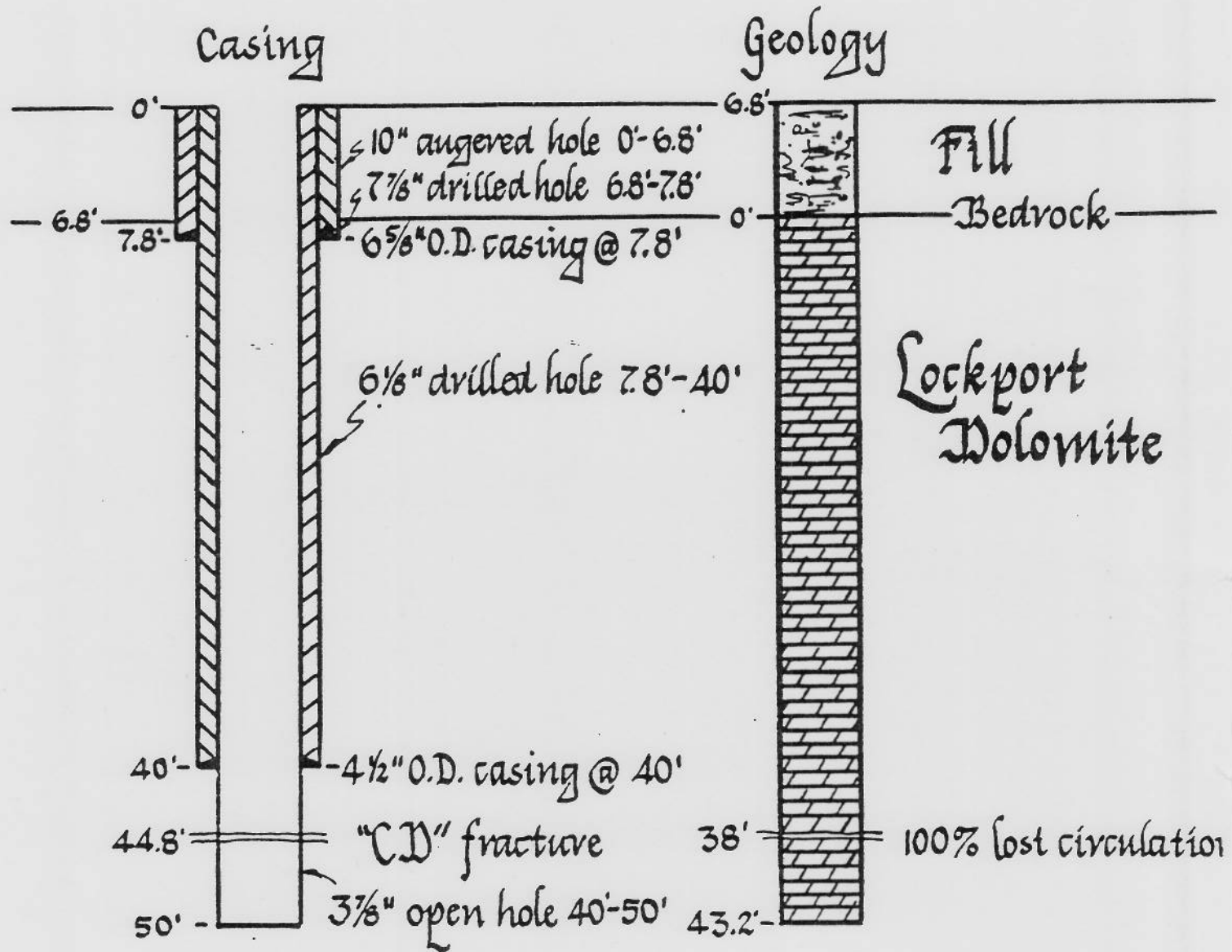
Spudded

February 10, 1986

Fassell Hunter

February 14, 1986

# Plant Well No. 26-CD



Total Depth 50'

Core #1 40' - 45.7'

Core #2 45.7' - 50'

Vertical Scale 1" = 10'

JH 2-14-86