Dc53-94 BORING D12 WELL D12 DEPTH IN SURFACE ELEVATION = +30.6' TOP OF PUC ELEVATION = +32.62 FEET N 577529.5 E 441647.7 O (PPM) SYMBOLS DESCRIPTIONS FILL CLAY AND SILT CL 8" DIA. BOREHOLE SRLT WITH SOME CLAY, LIGHT BROWN BENTONITE/CEMENT SEAL ML 10 -SILT WITH SOME CLAY AND TRACE FINE SAND, LIGHT BROWN MOTITED WITH GRAY AND ORANGE 10 . 4" DIA. SCH 40 PVC RISER PIPE FINE SAND WITH SOME SILT WITH GRAVEL LAYERS, LIGHT BROWN 15 BENTONITE PELLET SEAL SM 20 -GRADES TO ORANGE-BROWN 20 10/1/91 COLUMBIA CLAY WITH LITTLE SILT, LIGHT BROWN TO LIGHT GRAY CL 25 FINE TO MEDIUM SAND WITH TRACE SILT, DRANGE-BROWN WITH GRAY TO BLACK 4" DIA. SCH 40 PVC SCREEN 0.010 INCH SLOT SIZE CAYERS
GRADES TO LAYERED LIGHT BROWN, DARK
BROWN BROWN AND ORANGE SAND (TOP
TO BOTTOM) 30 <del>-</del> 30 CL MEDIUM TO COARSE SNAD WITH TRACE GRAVEL, ORANGE-BROWN 35 <sub>1.5 B</sub> *3*5 40 -GRADES TO MEDIUM SAND, BROWN 40 SP No.1 SAND 45 0.5 MEDIUM TO COARSE SAND WITH SOME 45 GRAVEL RROWN

50

SHEET 1 OF 2

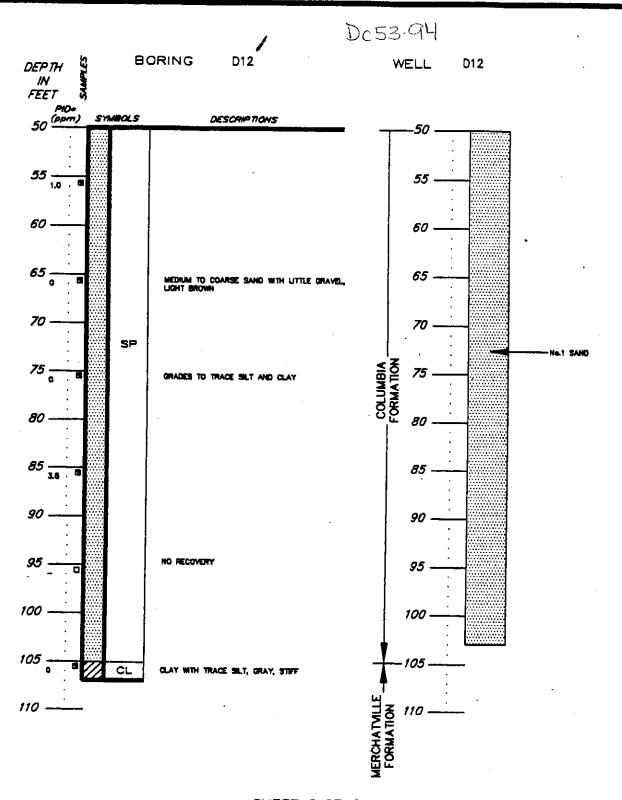
LOG OF BORING AND MONITORING WELL DETAIL DELAWARE CITY REFINERY DELAWARE CITY, DELAWARE

## NOTES:

- 1. HEADSPACE PHOTOIONIZATION DETECTOR (PIO) READINGS OBTAINED WITH A 10.2 eV LAMP AND A DETECTOR CALIBRATED TO BENZENE,
- 2. DRILLING COMPLETED TO A DEPTH OF 105 FEET ON 8/9/91.

50

- 3. BENTONITE DRILLING MUD USED. NO BLOW COUNTS RECORDED BECAUSE THE SAMPLER WAS ADVANCED USING HYDRAULIC RAMS INSTEAD OF A HAMMER.
- 4. CAVE IN FROM 103 FEET TO 107 FEET,
- 5. 4° PVC CASING WITH 0,010-INCH SLOTS FROM 18 FEET TO 37.7 FEET.
- 8. OROUND WATER ELEVATION AT +10.32 FEET (ABOVE PLANT DATUM WHICH IS 0.37 FOOT ABOVE NGVO) OR AT 20.3 FEET BELOW GROUND SURFACE ON 10/1/91.



SHEET 2 OF 2

LOG OF BORING AND

MONITORING WELL DETAIL

DELAWARE CITY REFINERY

DELAWARE CITY, DELAWARE