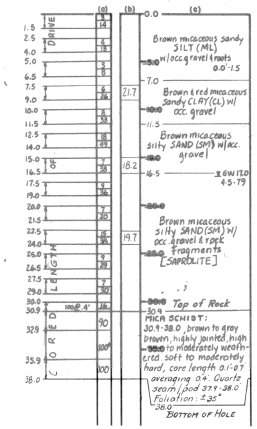
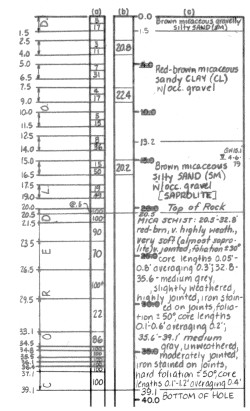
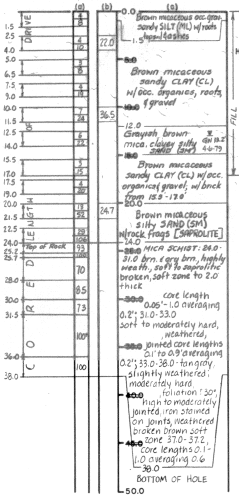


DH 24
HOLE COMPLETED 5 APRIL 79
TOP OF HOLE EL 146.5
DALECARLIA W.T.P.
FLOCC. AND SED. BASINS 1 and 2

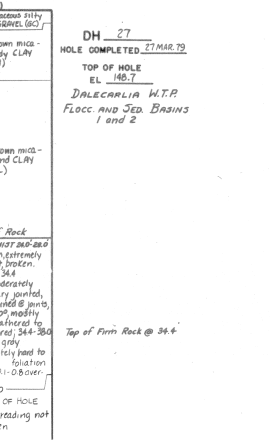


DH 25
HOLE COMPLETED 2 APRIL 79
TOP OF HOLE EL 146.8
DALECARLIA, W.T.B
FLOCC AND SED. BASINS 1 and 2

Top of Firm Rock @ 34.5'

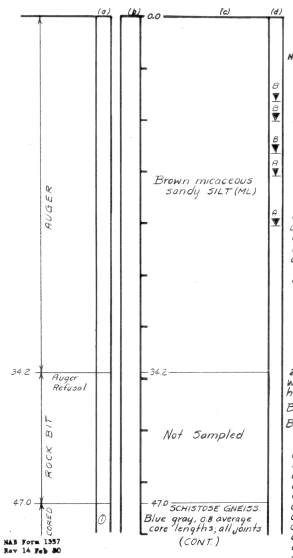


DH 26
HOLE COMPLETED 30 MARCH 79
TOP OF HOLE EL 148.2
DALECARLIA, W.T.P.
FLOCC. AND SED. BASINS 1 and 2



DH 27
HOLE COMPLETED 27 MAR. 79
TOP OF HOLE EL 148.7
DALECARLIA W.T.P.
FLOCC. AND SED. BASINS 1 and 2

Top of Firm Rock @ 34.4'



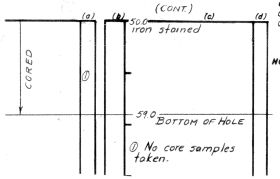
OW-3
HOLE COMPLETED 22 APRIL 80
TOP OF HOLE EL 148.7
DALECARLIA W.T.P.
FLOCC. AND SED. BASINS 1 and 2

GROUNDWATER DATA ▼
GW (A) @ 15.4' 22 APRIL 80
GW (B) @ 8.2' 22 APRIL 80
GW (B) @ 10.0' 24 APRIL 80
GW (B) @ 13.1' 15 JULY 80
GW (A) @ 20.2' 15 JULY 80
GW (A) @ 18.4' 13 MAR 86
GW (B) @ 12.1' 13 MAR 86
GW (A) @ 19.3' 18 MAR 86
GW (B) @ 12.4' 18 MAR 86
GW (A) @ 18.9' 19 MAR 86
GW (B) @ 12.3' 19 MAR 86
GW (A) @ 20.7' 3 APRIL 86
GW (B) @ 13.5' 3 APRIL 86

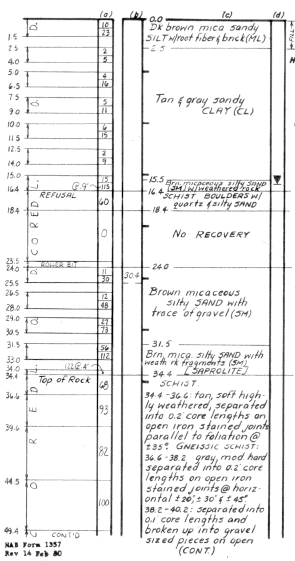
2 observation wells were installed in this hole. (A & B)
Bottom of Screen A: 55.4'
Bottom of Screen B: 24.0'

GW (A) @ 21.7' 8 APRIL 86
GW (B) @ 16.3' 8 APRIL 86
GW (A) @ 21.6' 11 APRIL 86
GW (B) @ 16.3' 11 APRIL 86
GW (A) @ 21.8' 16 APRIL 86
GW (B) @ 16.5' 16 APRIL 86
GW (A) @ 22.3' 29 APRIL 86
GW (B) @ 16.4' 29 APRIL 86
GW (A) @ 22.8' 7 MAY 86
GW (B) @ 16.8' 7 MAY 86
GW (A) @ 22.7' 22 MAY 86
GW (B) @ 17.2' 22 MAY 86
GW (A) @ 23.1' 17 JUNE 86
GW (B) @ 17.9' 17 JUNE 86
GW (A) @ 23.3' 17 JULY 86
GW (B) @ 18.3' 17 JULY 86

NAB Form 1357
Rev 14 Feb 80



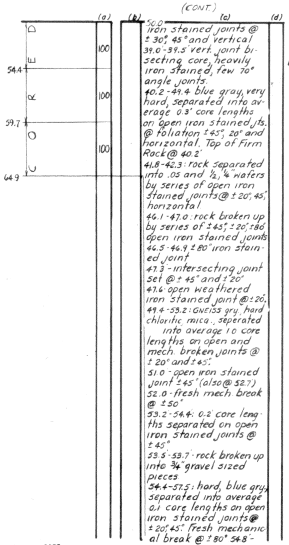
OW-3
HOLE COMPLETED 22 APRIL 80
TOP OF HOLE EL 148.7



DH 49
HOLE COMPLETED 8 APRIL 80
TOP OF HOLE EL 146.7
DALECARLIA W.T.P.
FLOCC. AND SED. BASINS 1 and 2

GROUNDWATER DATA ▼
GW @ 15.7' 8 APRIL 80

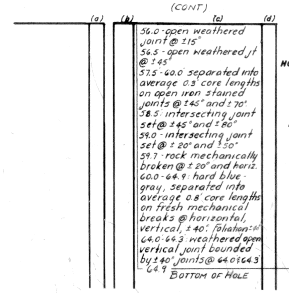
NAB Form 1357
Rev 14 Feb 80



DH 49
HOLE COMPLETED 8 APRIL 80
TOP OF HOLE EL 146.7
DALECARLIA W.T.P.
FLOCC. AND SED. BASINS 1 and 2

GROUNDWATER DATA ▼

NAB Form 1357
Rev 14 Feb 80



DH 49
HOLE COMPLETED 8 APRIL 80
TOP OF HOLE EL 146.7
DALECARLIA W.T.P.
FLOCC. AND SED. BASINS 1 and 2

GROUNDWATER DATA ▼

DALECARLIA
FLOCCULATION AND SEDIMENTATION BASINS 1 & 2

1. EXPLORATION WAS PERFORMED DURING MARCH AND APRIL 1979, APRIL 1980, AND MARCH AND APRIL 1986.

2. DRILL HOLES (DH) WERE ACCOMPLISHED BY STANDARD PENETRATION TEST PROCEDURE USING A 1-3/8" I.D. X 2'-8" LONG SPLIT SPOON. SAMPLE SPOONS WERE ADVANCED BY A 140# HAMMER FALLING 30". THE FIRST BLOW COUNT IN A GIVEN LENGTH OF DRIVE IS FOR 0.3'; THE SECOND BLOW COUNT IS FOR 1.0', UNLESS OTHERWISE INDICATED. THESE HOLES WERE POWER AUGERED BETWEEN SAMPLES UNLESS OTHERWISE INDICATED.

P - INDICATES PRESSED SHELBY TUBE SAMPLES.

L.O.D. - LENGTH OF DRIVE.

OBSERVATION WELLS (OW) WERE ADVANCED BY A COMBINATION OF POWER AUGER, ROCK BIT, AND CORING.

DPW - DEPTH OF PRIMARY WEATHERING.

ROCK WAS CORED WITH AN NXM SERIES CORE BIT UNLESS OTHERWISE NOTED ON THE LOGS.

DRILLING WATER WAS INTRODUCED INTO THE HOLE DURING CORING.

3. COLUMN (a) SHOWS EITHER THE BLOW COUNTS REQUIRED TO ADVANCE SPOON OR PERCENT RECOVERY WHERE ROCK WAS CORED.

4. COLUMN (b) SHOWS EITHER THE NATURAL WATER CONTENTS IN % OF DRY WEIGHT OF THOSE SAMPLES TESTED OR PERCENT RQD WHERE ROCK WAS CORED IN 1986.

5. COLUMN (c) SHOWS THE DEPTHS BELOW GROUND AND SOIL DESCRIPTIONS.

6. SOIL DESCRIPTIONS ARE LABORATORY CLASSIFICATIONS BASED ON THE UNIFIED SOIL CLASSIFICATION SYSTEM (MIL-STD-619B), EXCEPT THOSE INDICATED THUS *, WHICH ARE FIELD INSPECTORS' CLASSIFICATIONS.

8. COLUMN (d) SHOWS GROUNDWATER DEPTHS WHICH ARE INDICATED ON THE LOGS AS ▼. PERTINENT DATA FOR THESE READINGS ARE SHOWN IN THE RIGHT HAND MARGIN UNDER GROUNDWATER DATA. THE ACTUAL GROUNDWATER LEVEL MAY VARY DEPENDING UPON SEASONS AND AMOUNT OF RAINFALL.

9. ELEVATIONS SHOWN ON THE BORING LOGS ARE GROUND SURFACE ELEVATIONS AT THE TIME OF EXPLORATION. THEY WERE DETERMINED BY SURVEY.

10. FOR LOCATIONS OF SUBSURFACE EXPLORATIONS, SEE PLATE 2.

11. FILL DEPTHS WERE DETERMINED BY SAMPLE CLASSIFICATION AND COMPARING THE ORIGINAL 1923 and 1943 TOPOGRAPHIC ELEVATION WITH THE CURRENT TOP OF GROUND ELEVATION AT EACH HOLE.

12. FOR ROCK UNCONFINED COMPRESSION TEST RESULTS, SEE PLATE 11.

FOR INFORMATION ONLY

RECORD DRAWING AS-BUILT
OMNI CONTRACTORS, INC.

REV	DATE	DESCRIPTION	BY
	NOV. '92	AS-BUILT	

US Army Corps of Engineers

U.S. ARMY ENGINEER DISTRICT, BALTIMORE
CORPS OF ENGINEERS
BALTIMORE, MARYLAND

WASHINGTON AQUEDUCT
DALECARLIA WATER TREATMENT PLANT
REPLACEMENT OF FLOC. & SED. BASINS NOS. 1 & 2

SUBSURFACE EXPLORATION LOGS AND NOTES

CIVIL

DRAWN BY: A.E., B.D.O.	DRAWING NUMBER	PLATE
TRACED BY: A.E., B.D.O.	40.8-3.8	8
CHECKED BY: A.E., B.D.O.		
SCALE NONE	DATE JUNE 1989	SHEET C-8 of 15