

MUESER RUTLEDGE CONSULTING ENGINEERS

PROJECT <u>ALLIED-SIGNAL INC. BALTIMORE WORKS</u>	BORING NO. <u>MR-205U</u>
LOCATION <u>BALTIMORE, MARYLAND</u>	SHEET <u>2</u> OF <u>2</u>
BORING LOCATION <u>OFFSHORE, NORTH BULKHEAD, WEST END</u>	FILE NO. <u>6909</u>
	MUDLINE ELEV. <u>-12.5</u>
	DATUM <u>BC&CMD</u>

BORING EQUIPMENT AND METHODS OF STABILIZING BOREHOLE

TYPE OF BORING RIG TRUCK <u>MD-B-61</u> SKID _____ BARGE <u>X</u> OTHER _____	TYPE OF FEED DURING DRILLING MECHANICAL _____ HYDRAULIC <u>X</u> OTHER _____	CASING USED <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO DIA., IN. <u>2.5</u> DEPTH, FT. FROM <u>0.0</u> TO <u>9.0</u> DIA., IN. <u>4.0</u> DEPTH, FT. FROM <u>0.0</u> TO <u>11.0</u> DIA., IN. _____ DEPTH, FT. FROM _____ TO _____
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TYPE AND SIZE OF: D-SAMPLER <u>2" O.D. SPLIT SPOON</u> U-SAMPLER _____ S-SAMPLER <u>3" DIA. SHELBY TUBE</u> CORE BARREL _____ CORE BIT _____ DRILL RODS <u>A W</u>	DRILLING MUD USED <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO DIAMETER OF ROTARY BIT, IN. <u>3.5</u> TYPE OF DRILLING MUD <u>WATER</u> AUGER USED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO TYPE AND DIAMETER, IN. _____ CASING HAMMER, LBS. <u>140</u> AVERAGE FALL, IN. <u>30</u> SAMPLER HAMMER, LBS. <u>140</u> AVERAGE FALL, IN. <u>30</u>
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WATER LEVEL OBSERVATIONS IN BOREHOLE

DATE	TIME	DEPTH OF HOLE	DEPTH OF CASING	DEPTH TO WATER	CONDITIONS OF OBSERVATION

PIEZOMETER INSTALLED YES NO **SKETCH SHOWN ON** _____

STANDPIPE:	TYPE _____	ID, IN. _____	LENGTH, FT. _____	TOP ELEV. _____
INTAKE ELEMENT:	TYPE _____	OD, IN. _____	LENGTH, FT. _____	TIP ELEV. _____
FILTER:	MATERIAL _____	OD, IN. _____	LENGTH, FT. _____	BOT. ELEV. _____

PAY QUANTITIES

2.5" DIA. DRY SAMPLE BORING	LIN. FT. <u>27.5</u>	NO. OF 3" SHELBY TUBE SAMPLES	<u>2</u>
3.5" DIA. U-SAMPLE BORING	LIN. FT. _____	NO. OF 3" UNDISTURBED SAMPLES	<u>ATTEMPTED ONE IN ADJACENT HOLE-NR</u>
CORE DRILLING IN ROCK	LIN. FT. _____	OTHER	<u>LOWERED CASING 12.5'</u>
			<u>1 EXTRA SPOON</u>

BORING CONTRACTOR HARDIN HUBER INC.

DRILLER PAUL SUIT **HELPERS** TERRY MISE

REMARKS GROUTED UPON COMPLETION.

RESIDENT ENGINEER BEN BENBASSET **DATE** 12-19-89

BORING NO. MR-205U

MUESER RUTLEDGE CONSULTING ENGINEERS
BORING LOG

BORING NO. MR-205AU
SHEET 1 **OF** 2
FILE NO. 6909
MUDLINE ELEV. -12.5
RES. ENGR. BEN BENBASSET

PROJECT ALLIED-SIGNAL INC. BALTIMORE WORKS
LOCATION BALTIMORE, MARYLAND

DAILY PROGRESS	SAMPLE			SAMPLE DESCRIPTION	STRATA	DEPTH	CASING BLOWS	REMARKS
	NO.	DEPTH	BLOWS/6"					
1315							ROC	Lowered casing 13.0'.
12-19-89								
Tuesday								Tide @ +0.5'.
Overcast,	NR	3.5	Push=24"	No Recovery. Undisturbed tube sample attemptped.	0			
Lt Snow		5.5	Rec=0"					
30°F						5.0	↓	End of boring at 5.5'.
1400						5.5		
						10.0		
						15.0		
						20.0		
						25.0		
						30.0		
						35.0		
						40.0		
						45.0		
						50.0		

MUESER RUTLEDGE CONSULTING ENGINEERS

PROJECT <u>ALLIED-SIGNAL INC. BALTIMORE WORKS</u>	BORING NO. <u>MR-205AU</u>
LOCATION <u>BALTIMORE, MARYLAND</u>	SHEET <u>2</u> OF <u>2</u>
BORING LOCATION <u>OFFSHORE, NORTH BULKHEAD, WEST END</u>	FILE NO. <u>6909</u>
	MUDLINE ELEV. <u>-12.5</u>
	DATUM <u>BC&CMD</u>

BORING EQUIPMENT AND METHODS OF STABILIZING BOREHOLE

TYPE OF BORING RIG TRUCK <u>MD-B-61</u> SKID _____ BARGE <u>X</u> OTHER _____	TYPE OF FEED DURING DRILLING MECHANICAL _____ HYDRAULIC <u>X</u> OTHER _____	CASING USED <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO DIA., IN. <u>4.0</u> DEPTH, FT. FROM <u>0.0</u> TO <u>3.5</u> DIA., IN. _____ DEPTH, FT. FROM _____ TO _____ DIA., IN. _____ DEPTH, FT. FROM _____ TO _____
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TYPE AND SIZE OF: D-SAMPLER _____ U-SAMPLER <u>3" FIXED PISTON</u> S-SAMPLER _____ CORE BARREL _____ CORE BIT _____ DRILL RODS <u>A W</u>	DRILLING MUD USED <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO DIAMETER OF ROTARY BIT, IN. <u>3.5</u> TYPE OF DRILLING MUD <u>WATER</u> AUGER USED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO TYPE AND DIAMETER, IN. _____ CASING HAMMER, LBS. <u>NA</u> AVERAGE FALL, IN. _____ SAMPLER HAMMER, LBS. <u>NA</u> AVERAGE FALL, IN. _____
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WATER LEVEL OBSERVATIONS IN BOREHOLE

DATE	TIME	DEPTH OF HOLE	DEPTH OF CASING	DEPTH TO WATER	CONDITIONS OF OBSERVATION

PIEZOMETER INSTALLED YES NO **SKETCH SHOWN ON** _____

STANDPIPE:	TYPE _____	ID, IN. _____	LENGTH, FT. _____	TOP ELEV. _____
INTAKE ELEMENT:	TYPE _____	OD, IN. _____	LENGTH, FT. _____	TIP ELEV. _____
FILTER:	MATERIAL _____	OD, IN. _____	LENGTH, FT. _____	BOT. ELEV. _____

PAY QUANTITIES - NO PAY. DRILLER'S CHOICE TO MAKE SEPARATE HOLE FOR TUBES

2.5" DIA. DRY SAMPLE BORING	LIN. FT. _____	NO. OF 2" SHELBY TUBE SAMPLES _____	_____
3.5" DIA. U-SAMPLE BORING	LIN. FT. _____	NO. OF 3" UNDISTURBED SAMPLES _____	<u>ATTEMPTED ONE - NO RECOVERY</u>
CORE DRILLING IN ROCK	LIN. FT. _____	OTHER _____	_____

BORING CONTRACTOR HARDIN HUBER INC.

DRILLER PAUL SUIT **HELPERS** TERRY MISE

REMARKS BORING MADE TO ATTEMPT TUBE SAMPLES IN STRATUM O

RESIDENT ENGINEER BEN BENBASSET **DATE** 12-19-89