



MACTEC, Inc.
 MACTEC Engineering and Consulting
 MACTEC Development

Urgent, please hand deliver

For Review / Comment

Please Reply

TO:	CHRIS HENSLEY	DATE:	5/10/05
FIRM:	TVA	SUBJECT:	FIELD BORING LOG for NB-85.
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# PAGES:	1 + this cover sheet		
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-Soil profile appears to be
 cherty throughout; successful
 Shelby tube sampling may
 be difficult.

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MACTEC SOIL TEST BORING FIELD REPORT

BORING NO. UB-05 PG. 1 OF 1

RIG TYPE CME 550 HAMMER TYPE _____

JOB NO. 3043051021 DRILLER M. Burnett

HOURS DRILLING _____ GROUND SURFACE ELEV. _____

JOB NAME TVA KINGSDALE LOGGED BY J. Mason

HOURS MOVING _____ DATE: 5/10/05 WEATHER: Cloudy 9

No	SAMPLING			NO	REL.	ELEVATION	REMARKS
	1	2	3				
1	9/15 11:10	2	4	4	1.2	0.0 to 0.2 ft.: Topsoil 0.2 to 1.2 ft.: Firm, 3.5R 4/6 strong brown to 7.5R 5/8 strong brown silty CLAY with 1/2 in to 3/4 in buff colored, weathered chert throughout. Slightly moist.	
2	13/10 11:13	3	10	7	0.3	Same as above, except very stiff.	
3	14/55 11:16	3	5	7	0.5	Stiff 10R 6/6 brownish yellow to 12R 5/6 yellowish brown, very silty CLAY, with abundant 1/4 in to 3/8 in, angular, buff- colored chert. Slightly moist.	
4	19/05 11:22	4	5	7	1.2	Same as above.	
5	14/55 11:29	5	5	6	1.0	Same as above. Slightly moist, moisture with depth.	
6	19/05 11:40	7	7	12	0.7	Same as above (4.0' to 5.5'), except very stiff.	
7	24/55 11:54	4	5	6	1.5	Stiff, 7.5R 5/8 strong brown, silty CLAY, with subvertical 5/8 in to 1/2 in wide, 10R 5/6 yellowish brown, sandy (fine to med) stringers of silt. Occasional 1/4 in to 3/8 in, weat- thered chert fragments. Slightly moist, sandy silt may be present.	7.19' to 6 2 brown, fine to medium wet, very silty sand.
8	29/05 12:01	50/045			0.7	Medium brownish gray, weathered DIAMONTE Wet. Overlaps by 0.3 ft. of 10R 4/4 silt yellowish brown, silty, wet.	10 5/10/05

STANDARD PENETRATION RESISTANCE IS SUM OF BLOWS FOR 2ND 8" AND 3RD 6" TO DRIVE 1-3/8" I.D., 2" O.D. SPLIT BARREL SAMPLER WITH 140 POUND HAMMER FALLING 30 INCHES.

BORING TERMINATED: 32.0'
 BORING REFUSAL: 32.0'
 WATER TOB DEPTH 19.0'
 WATER 24 HR.: DEPTH _____
 WATER LOSSES _____
 CAVE-IN DEPTHS _____
 CASING: SIZE _____ LENGTH _____
 STANDBY TIME _____ BORING LAYOUT _____

METHOD OF ADVANCING BORING	DEPTH
POWER AUGER <u>3 1/4" HSP</u>	0 TO 32.0'
HAND SHOP: W/MUD: W/WATER	_____ TO _____
ROTARY DRILL: W/MUD: W/WATER	_____ TO _____
DIAMOND CORE	_____ TO _____
CORE SIZE	_____ TO _____
UNDISTURBED SAMPLES NO _____ SIZE _____	
BAG SAMPLES NO _____	