FINAL REPORT - VOLUME II

RESULTS OF GEOLOGIC EXCAVATION MAPPING WOLF CREEK GENERATING STATION, UNIT NO. 1
FOR
KANSAS GAS & ELECTRIC COMPANY/
KANSAS CITY POWER AND LIGHT

Dames & Moore



07699-055

Number	<u>Title</u>
8	ULTIMATE HEAT SINK DAM - LOCATION OF FLOOR AND WALL MAPS
8-A	ULTIMATE HEAT SINK DAM - SUMMARY GEOLOGICAL MAP
8-B	ULTIMATE HEAT SINK DAM EXCAVATION SLOPE FROM STATION -2+25 TO STATION 1+45 - RIGHT OF CENTERLINE
8-C	ULTIMATE HEAT SINK DAM EXCAVATION SLOPE FROM STATION 1+45 TO STATION 5+22 - RIGHT OF CENTERLINE
8D	ULTIMATE HEAT SINK DAM EXCAVATION SLOPE FROM STATION 5+22 TO STATION 8+96 - RIGHT OF CENTERLINE
8-E	ULTIMATE HEAT SINK DAM EXCAVATION SLOPE FROM STATION 8+96 TO STATION 12-34 - RIGHT OF CENTERLINE
8-F	ULTIMATE HEAT SINK DAM EXCAVATION SLOPE FROM STATION 12+34 TO STATION 14+74 - RIGHT OF CENTERLINE
8-G	ULTIMATE HEAT SINK DAM EXCAVATION SLOPE FROM STATION -2+32 TO STATION 1-00 - LFFT OF CENTERLINE
8-H	ULTIMATE HEAT SINK DAM EXCAVATION SLOPE FROM STATION 1+00 TO STATION 4+90 - LEFT OF CENTERLINE
8-1	ULTIMATE HEAT SINK DAM EXCAVATION SLOPE FROM STATION 4+90 TO STATION 8+68 - LEFT OF CENTERLINE
8-J	ULTIMATE HEAT SINK DAM EXCAVATION SLOPE FROM STATION 10+44 TO STATION 14+52 - LEFT OF CENTERLINE
8-K	ULTIMATE HEAT SINK DAM FOUNDATION FROM STATION -2+00 TO STATION -1+00 - RIGHT OF CENTERLINE
8-L	ULTIMATE HFAT SINK DAM FOUNDATION FROM STATION -1+00 TO STATION 0+00 - RIGHT OF CENTERLINE
8-M	ULTIMATE HEAT SINK DAM FOUNDATION FROM STATION 0+00 TO STATION 1+00 - RIGHT OF CENTERLINE
8-N	ULTIMATE HEAT SINK DAM FOUNDATION FROM STATION 1+00 TO STATION 2+00 - RIGHT OF CENTERLINE
8-0	ULTIMATE HEAT SINK DAM FOUNDATION FROM STATION 2+00 TO STATION 3+00 - RIGHT OF CENTERLINE

Number	<u>Title</u>
8-P	ULTIMATE HEAT SINK DAM FOUNDATION FROM STATION 3+00 TO STATION 4+00 - RIGHT OF CENTERLINE
Q-8	ULTIMATE HEAT SINK DAM FOUNDATION FROM STATION 4+00 TO STATION 5+00 - RIGHT OF CENTERLINE
8-R	ULTIMATE HEAT SINK DAM FOUNDATION FROM STATION 5+00 TO STATION 6+00 - RIGHT OF CENTERLINE
8-S	ULTIMATE HEAT SINK DAM FOUNDATION FROM STATION 6+00 TO STATION 7+00 - RIGHT OF CENTERLINE
8-T	ULTIMATE HEAT SINK DAM FOUNDATION FROM STATION 7+00 TO STATION 8+00 - RIGHT OF CENTERLINE
8-U	ULTIMATE HEAT SINK DAM FOUNDATION FROM STATION 8+00 TO STATION 9+00 - RIGHT OF CENTERLINE
8-V	ULTIMATE HEAT SINK DAM FOUNDATION FROM STATION 9+00 TO 10+00 - RIGHT OF CENTERLINE
8-W	ULTIMATE HEAT SINK DAM FOUNDATION FROM STATION 10+00 TO STATION 10+56 - RIGHT OF CENTERLINE
8-X	ULTIMATE HEAT SINK DAM FOUNDATION FROM STATION 10+56 TO STATION 11+58 - RIGHT OF CENTERLINE
8-Y	ULTIMATE HEAT SINK DAM FOUNDATION FROM STATION 11+58 TO STATION 12+60 - RIGHT OF CENTERLINE
8-Z	ULTIMATE HEAT SINK DAM FOUNDATION FROM STATION 12+60 TO STATION 13+00 - RIGHT OF CENTERLINE
AA-3	ULTIMATE HEAT SINK DAM FOUNDATION FROM STATION 13+00 TO 14+00 - RIGHT OF CENTERLINE
8-BB	ULTIMATE HEAT SINK DAM FOUNDATION FROM STATION 14+00 TO 15+00 - RIGHT OF CENTERLINE
8-CC	ULTIMATE HEAT SINK DAM FOUNDATION FROM STATION -2+00 TO STATION -1+00 - LEFT CF CENTERLINE
8-DD	ULTIMATE HEAT SINK DAM FOUNDATION FROM STATION -1+00 TO STATION 0+00 - LEFT OF CENTERLINE
8-EE	ULTIMATE HEAT SINK DAM FOUNDATION FROM STATION 0+00 TO STATION 1+00 - LEFT OF CENTERLINE

Number	<u>Title</u>
8-FF	ULTIMATE HEAT SINK DAM FOUNDATION FROM STATION 1+00 TO STATION 2+00 - LEFT OF CENTERLINE
8-GG	ULTIMATE HEAT SINK DAM FOUNDATION FROM STATION 2+00 TO STATION 3+00 - LEFT OF CENTERLINE
8-HH	ULTIMATE HEAT SINK DAM FOUNDATION FROM STATION 3+00 TO STATION 4+00 - LEFT OF CENTERLINE
8-11	ULTIMATE HEAT SINK DAM FOUNDATION FROM STATION 4+00 TO STATION 5+00 - LEFT OF CENTERLINE
8-JJ	ULTIMATE HEAT SINK DAM FOUNDATION FROM STATION 5+00 TO STATION 6+00 - LEFT OF CENTERLINE
8-KK	ULTIMATE HEAT SINK DAM FOUNDATION FROM STATION 6+00 TO STATION 7+00 - LEFT OF CENTERLINE
8-LL	ULTIMATE HEAT SINK DAM FOUNDATION FROM STATION 7+00 TO STATION 8+00 - LEFT OF CENTERLINE
8-MM	ULTIMATE HEAT SINK DAM FOUNDATION FROM STATION 8+00 TO STATION 9+00 - LEFT OF CENTERLINE
8-NN	ULTIMATE HEAT SINK DAM FOUNDATION FROM STATION 9+00 TO STATION 10+00 - LEFT OF CENTERLINE
8-00	ULTIMATE HEAT SINK DAM FOUNDATION FROM STATION 10+00 TO 10+56 - LEFT OF CENTERLINE
8-PP	ULTIMATE HEAT SINK DAM FOUNDATION FROM STATION 10+56 TO STATION 11+58 - LEFT OF CENTERLINE
8-00	ULTIMATE HEAT SINK DAM FOUNDATION FROM STATION 11+56 TO STATION 12+60 - LEFT OF CENTERLINE
8-RR	'LTIMATE HEAT SINK DAM FOUNDATION FROM STATION 12+60 TO STATION 13+00 - LEFT OF CENTERLINE
8-SS	ULTIMATE HEAT SINK DAM FOUNDATION FROM STATION 13+00 TO STATION 14+00 - LEFT OF CENTERLINE
8-TT	ULTIMATE HEAT SINK DAM FOUNDATION FROM STATION 14+00 TO 15+00 - LEFT OF CENTERLINE
8-00	ULTIMATE HEAT SINK DAM FOUNDATION ABUTMENT ALONG STATION -2+25

0

Number				Title	2					
8-VV					COUNDATION STATION -0					
8-WW	ULTIMATE MATELY ST			DAM F	COUNDATION	ABUTM	ENT AT	APP	ROXI	-
8-XX					FOUNDATIO					
8-44					FOUNDATIO		TMENT,	15	FEE	T
8-22	ULTIMATE 8+85, RIG				FOUNDATIO	N ABI	JTMENT,	ST	ATIC	N
9	ULTIMATE	HEAT	SIN	K PO	ND - LOCA	TION	OF FLO	OOR	MAP	S
9-A	ULTIMATE	HEAT	SINK	POND	PERIMETER	FROM	POINTS	A	TO	Е
9-B	ULTIMATE	HEAT	SINK	POND	PERIMETER	FROM	POINTS	E	TO	K
9-C	ULTIMATE	HEAT	SINK	POND	PERIMETER	FROM	POINTS	S K	TO	0
9-D	ULTIMATE	HEAT	SINK	POND	PERIMETER	FROM	POINTS	0	TO	S
9-E	ULTIMATE	HEAT	SINK	POND	PERIMETER	FROM	POINTS	S	TO	Х
9-F	ULTIMATE	HEAT	SINK	POND	PERIMETER	FROM	POINTS	Х	TO A	AD
9-G	ULTIMA.E	НЕАТ	SINK	POND	PERIMETER	FROM	POINTS	AD	TO A	AH
9-н	ULTIMATE	HEAT	SINK	POND	PERIMETER	FROM	POINTS	АН	TO A	AL
9-I	ULTIMATE	HEAT	SINK	POND	PERIMETER	FROM	POINTS	AL	TO A	AQ
9-J	ULTIMATE	НЕАТ	SINK	POND	PERIMETER	FROM	POINTS	AQ	TO A	AU
9-K	ULTIMATE	HEAT	SINK	POND	PERIMETER	FROM	POINTS	AU	TO A	AY
9 L	ULTIMATE	HEAT	SINK	POND	PERIMETER	FROM	POINTS	AY	TO I	ВС
9-M	ULTIMATE	HEAT	SINK	POND	PERIMETER	FROM	POINTS	BC	TO I	BG
9-N	ULTIMATE	НЕАТ	SINK	POND	PERIMETER	FROM	POINTS	BG	TO I	BL
9-0	ULTIMATE	HEAT	SINK	POND	PERIMETER	FROM	POINTS	BL	TO I	BQ

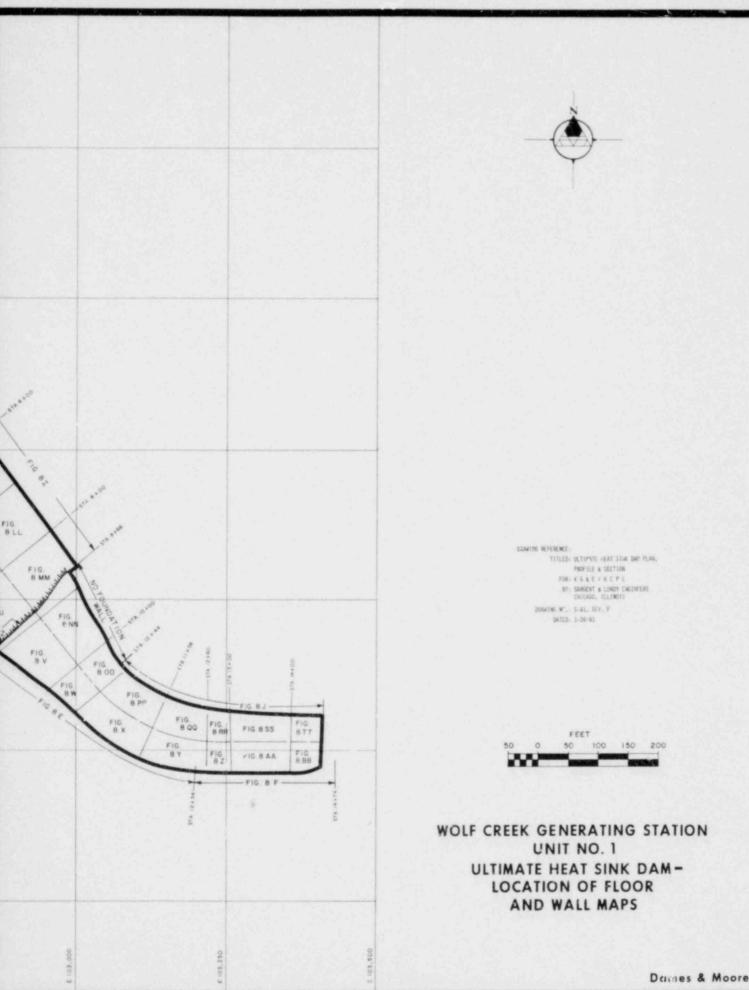
Number	Title
9-P	ULTIMATE HEAT SINK POND PERIMETER FROM POINTS BQ TO PU
9-Q	ULTIMATE HEAT SINK POND PERIMETER FROM POINTS BU TO BY
9-R	ULTIMATE HEAT SINK POND PERIMETER FROM POINTS BY TO CC
9-S	ULTIMATE HEAT SINK PCND PERIMETER FROM POINTS CC TO CG
9-T	ULTIMATE HEAT SINK POND PERIMETER FROM POINTS CG TO CK
9-U	ULTIMATE HEAT SINK POND FERIMETER FROM POINTS CK TO CP
9-V	ULTIMATE HEAT SINK POND FLOOR - DETAIL "POP-UP" TYPE FEATURE
9-W	ULTIMATE HEAT SINK POND FLOOR - DETAIL "POP-UP" TYPE FEATURE
9-X	ULTIMATE HEAT SINK POND FLOOR - DETAIL "POP-UP" TYPE FEATURE
10	CIRCULATING WATER SYSTEM - EXCAVATION PLAN LOCATION OF SLOPE AND FLOOR MAPS
10-A	CIRCULATING WATER INTAKE CHANNEL SCREENHOUSE FLOOR
10-A1	WEST EXCAVATION SLOPE OF CIRCULATING WATER INTAKE CHANNEL
10-A2	WEST EXCAVATION SLOPE OF CIRCULATING WATER INTAKE CHANNEL - UNIT 2 SCREENHOUSE
10-B	LOCATION MAP - SLOPES AND FLOORS - CIRCULATING WATER SCREENHOUSE EXCAVATION
10-B1	FLOOR PORTION OF WEST EXCAVATION SLOPE OF CIRCULATING WATER SCREENHOUSE
10-B2	PARTS OF WEST EXCAVATION SLOPE - CIRCULATING WATER SCREENHOUSE
10-В3	WEST EXCAVATION SLOPE - CIRCULATING WATER SCREENHOUSE - N98,832; E101,464 TO N98,855; E101,445
10-B4	WEST EXCAVATION SLOPE - CIRCULATING WATER SCREENHOUSE
10-B5	PART OF WEST FOUNDATION EXCAVATION - CIRCULATING WATER SCREENHOUSE

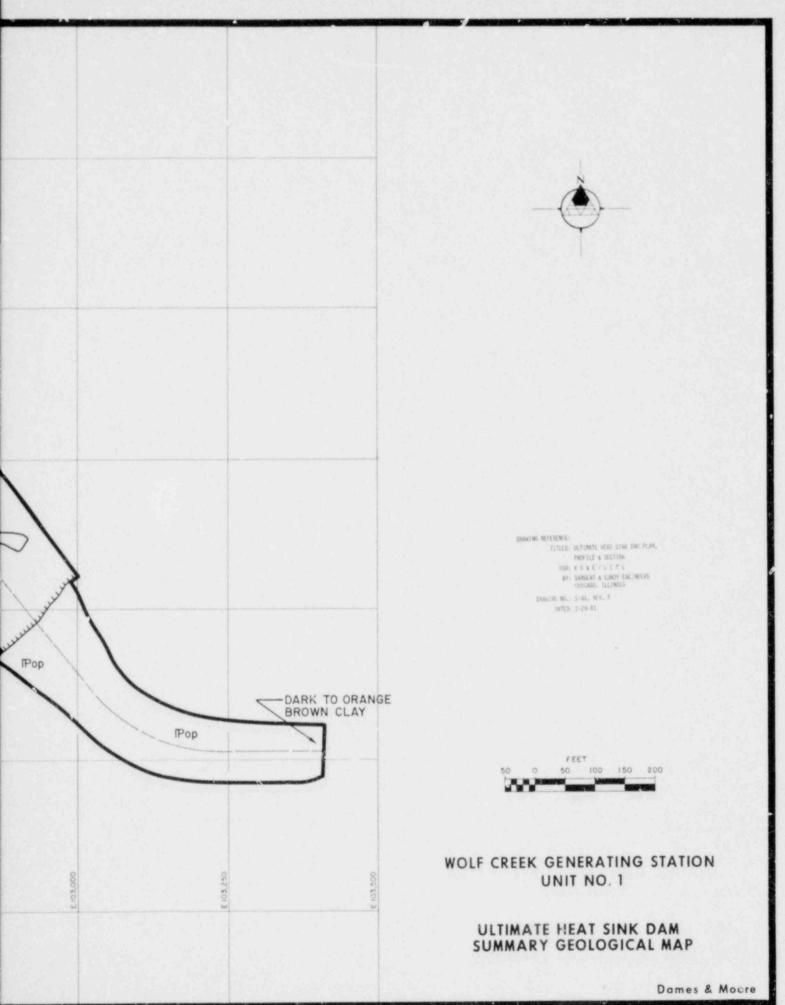
Number	<u>Title</u>
10-B6	
10-B7	PART OF LOWER WEST EXCAVATION SLOPE - CIRCULATING WATER SCREENHOUSE - N98,854; E101,441 TO N98,896; E101,438
10-B8	PART OF NORTH EXCAVATION SLOPE - CIRCULATING WATER SCREENHOUSE - N98,896; E101,438 TO N98,901; E101,466
10 - B9	PART OF NORTH EXCAVATION SLOPE - CIRCULATING WATER SCREENHOUSE - N98,901; E101,466 TO N98,918; E101,575
10-B10	EAST OF NORTH EXCAVATION SLOPE - CIRCULATING WATER SCREENHOUSE - N98,828; E101,589 TO N98,918; E101,575
10-B11	WEST AND NORTH OF NORTH EXCAVATION SLOPE - BEGINNING OF CIRCULATING WATER (INTAKE) PIPELINE TRENCH
10-C	CIRCULATING WATER DISCHARGE STRUCTURE - PART OF FLOOR AND WEST WALL
10-D	EAST EXCAVATION SLOPE - CIRCULATING WATER DISCHARGE STRUCTURE - N100,838; E98,937 TO N100,927; E98,986
10-E	SOUTH EXCAVATION SLOPE - CIRCULATING DISCHARGE CHANNEL - STATION 0+72 TO STATION 6+35
11	MAIN DAM, SPILLWAYS AND SADDLE DAM V - EXCAVATION PLAN - LOCATION OF SLOPE, FLOOR AND KEYTYRENCH MAPS
11-A	MAIN DAM - NORTH WALL - KEYTRENCH - STATION 42+00 TO STATION 47+90
11-B	MAIN DAM - FOUNDATION AND KEYTRENCH FLOORS - STATION 42+00 TO 50+00
11-C	MAIN DAM - FOUNDATION AND KEYTRENCH FLOORS - STATION 50+00 TO STATION 57+00
11-D	MAIN DAM - CLOSURE SECTION - WEST AND SOUTH EXCAVATION SLOPES
11-E	MAIN DAM - LOW LEVEL OUTLET INTAKE CHANNEL
11-F	MAIN DAM - LOW LEVEL OUTLET DISCHARGE CHANNEL
11-G	MAIN DAM - SERVICE SPILLWAY EXCAVATION FLOOR - STATION 0+00 TO STATION 4+00

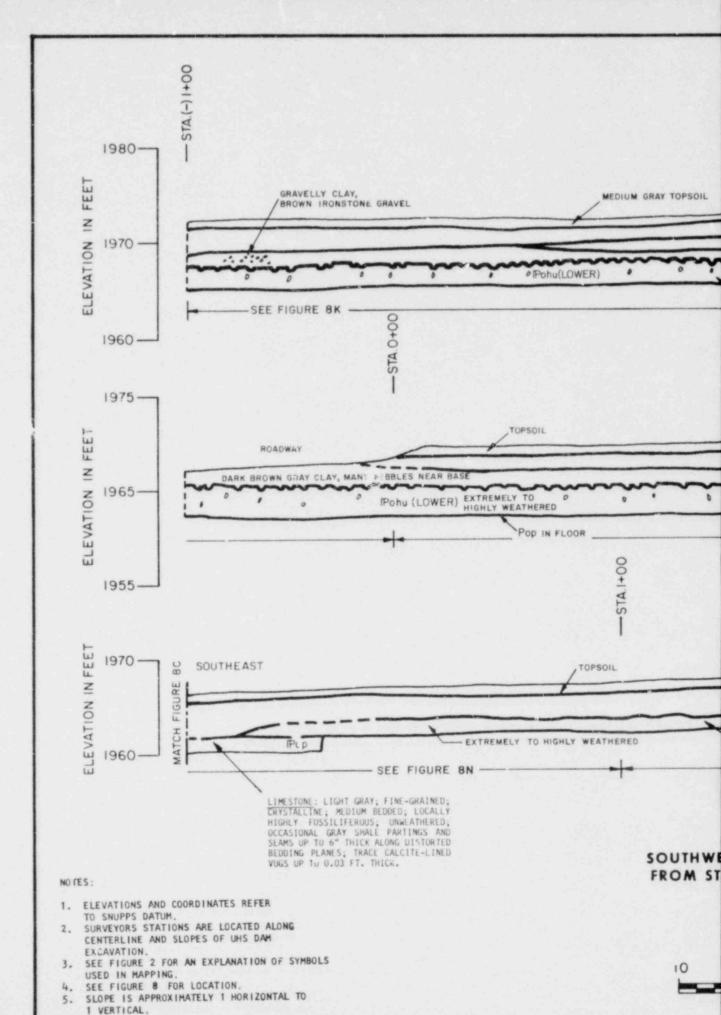
Number	<u>Title</u>
11-Н	MAIN DAM - SERVICE SPILLWAY EXCAVATION FLOOR - STATION 4+00 TO STATION 8+20
11-1	MAIN DAM - SERVICE SPILLWAY - EAST EXCAVATION SLOPE - STATION 6+20 TO STATION 7+20
11-J	MAIN DAM - SERVICE SPILTWAY - EAST EXCAVATION SLOPE - STATION 6+20 TO STATION 7+20
11-K	MAIN DAM - SERVICE SPILLWAY - WEST EXCAVATION SLOPE - STATION 6+20 TO STATION 7+20
11-L	MAIN DAM - SERVICE SPILLWAY - WEST EXCAVATION SLOPE - STATION 7+20 TO STATION 8+30
11-M	MAIN DAM - SERVICE SPILLWAY - FOUNDATION - STATION 7+30 TO STATION 8+20
11-N	MAIN DAM - SERVICE SPILLWAY - DISCHARGE CHANNEL - EAST EXCAVATION SLOPE
11-0	MAIN DAM - AUXILIARY SPILLWAY FOUNDATION - STATION -4+25 TO STATION 3+00
11-P	MAIN DAM - AUXILIARY SPILLWAY FOUNDATION - STATION 3+00 TO END
11-Q	MAIN DAM - NORTH EXCAVATION SLOPE OF AUXILIARY SPILLWAY
11-R	MAIN DAM - NORTH EXCAVATION SLOPE OF AUXILIARY SPILLWAY - DETAIL MINOR DEFORMATION
11-S	MAIN DAM - KEYTRENCH FLOOR AUXILIARY SPILLWAY
11-T	MAIN DAM - AUXILIARY SPILLWAY - EAST EXCAVATION SLOPE
11-U	DETAIL - FEATURE NO. 1 - SERVICE SPILLWAY
11-V	DETAIL - FEATURES NO. 3 AND 10 - SERVICE SPILLWAY
11-W	DETAIL - FEATURE NO. 13 - SERVICE SPILLWAY
11-X	DETAIL - FEATURE NO. 14 - SERVICE SPILLWAY
11-Y	DETAIL - FEATURE NO. 17 AND AMAZONIA MARKER BED - SERVICE SPILLWAY

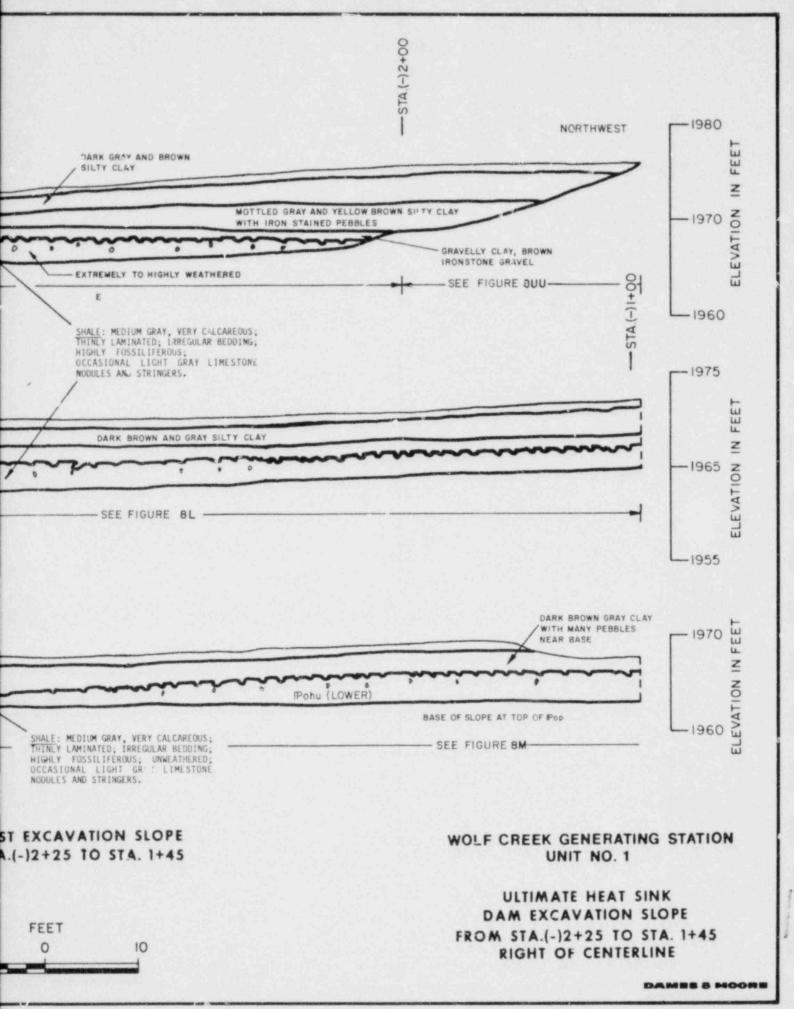
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12-A	SADDLE DAM I - FOUNDATION FROM STATION 0+00 TO STATION 9+00
12-B	SADDLE DAM I - FOUNDATION FROM STATION 9+00 TO STATION 17+35
13	SADDLE DAM II - FOUNDATION
14-A	SADDLE DAM III - FOUNDATION FROM STATION 0+00 TO STATION 13+00
14-B	SADDLE DAM III - FOUNDATION FROM STATION 13+00 TO STATION 24:49
15	BAFFLE DIKE A - LOCATION OF FLOOR AND WALL MAPS
15-A	B*FFLE DIKE A - CIRCULATION CHANNEL I - EAST EXCAVATION SLOPE AND FOUNDATION
15-B	BAFFLE DIKE A - CIRCULATION CHANNEL II - EAST EXCA- VATION SLOPE AND FOUNDATION
15-C	BAFFLE DIKE A - NORTH WALL OF KEYTRENCH IN TEMPORARY DIKE FOUNDATION
15-D	BAFFLE DIKE A - EAST ABUTMENT OF TEMPORARY DIKE
16	BAFFLE DIKE B - LOCATION OF FLOOR AND WALL MAPS
16-A	BAFFLE DIKE B - FOUNDATION - STATION 0+00 TO STATION 13+00
16-B	BAFFLE DIKE B - FOUNDATION - STATION 13+00 TO STATION 17+30
16-C	BAFFLE DIKE B - FOUNDATION - STATION 17+30 TO STATION 28+00
16-D	BAFFLE DIKE B - FOUNDATION - STATION 28+00 TO STATION 32+50
16-E	BAFFLE DIKE B - FOUNDATION - STATION 32+50 TO END
16-F	BAFFLE DIKE B - CIRCULATION CHANNEL III - FLOOR - STATION 20+00 TO STATION 34+00

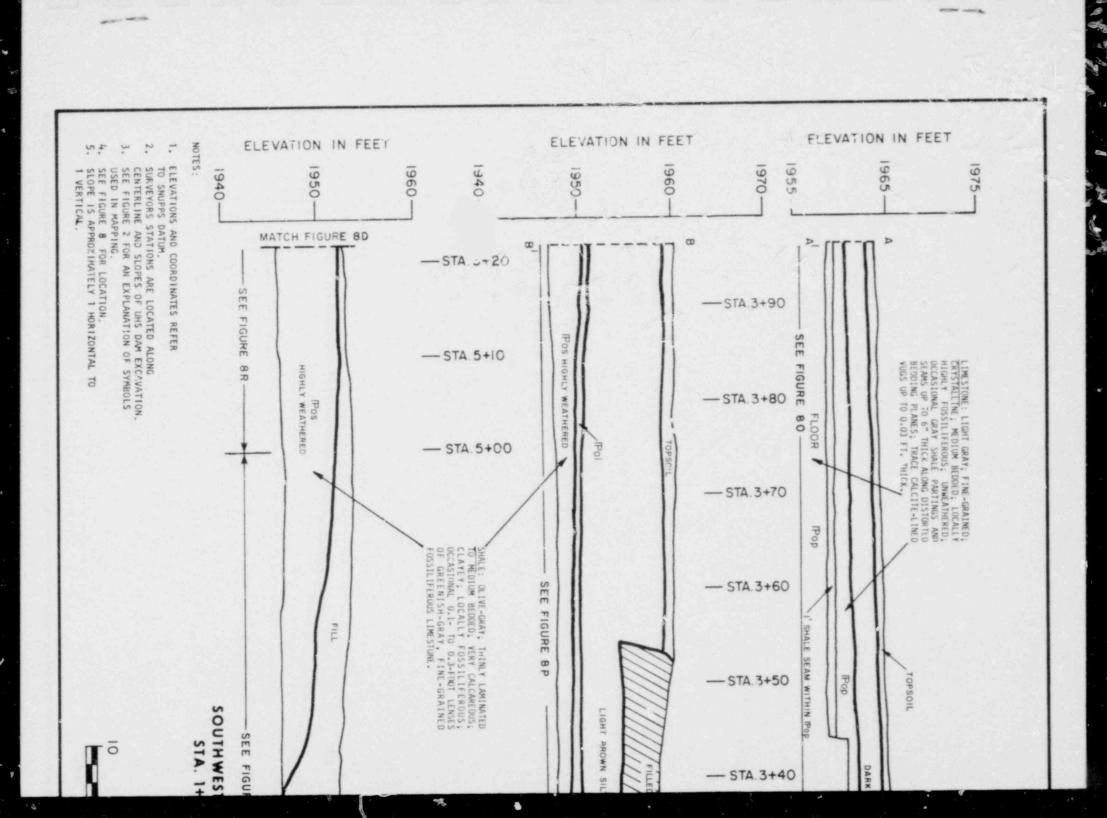
Number	Title
16-G	BAFFLE DIKE B - CIRCULATION CHANNEL III - FLOOR - STATION 34+CO TO STATION 47+90
16-H	BAFFLE DIKE B - CIRCULATION CHANNEL III - NORTH WALL
17	MAKE-UP WATER PIPELINE SYSTEM - LOCATION OF WALL MAPS
17-A	MAKE-UP WATER INTAKE CHANNEL - UPPER EAST EXCAVATION SLOPE
17-B	MAKE-UP WATER INTAKE CHANNEL - LOWER EAST EXCAVATION SLOPE
17-C	MAKE-UP WATER DISCHARGE STRUCTURE AND CHANNEL
Appendix	
A-1	10-V - LOW LEVEL OUTLET TUNNEL - FAULT IN UNNAMED MEMBER OF THE LAWRENCE FORMATION - WEST WALL BENEATH MAIN DAM
A-2	17-G - MAKE-UP WATER SYSTEM - NORTH WALL - STATION 82+00 TO 96+00
A-3	17-H - MAKE-UP WATER SYSTEM - NORTH WALL - STATION 96+00 TO SCREEN HOUSE

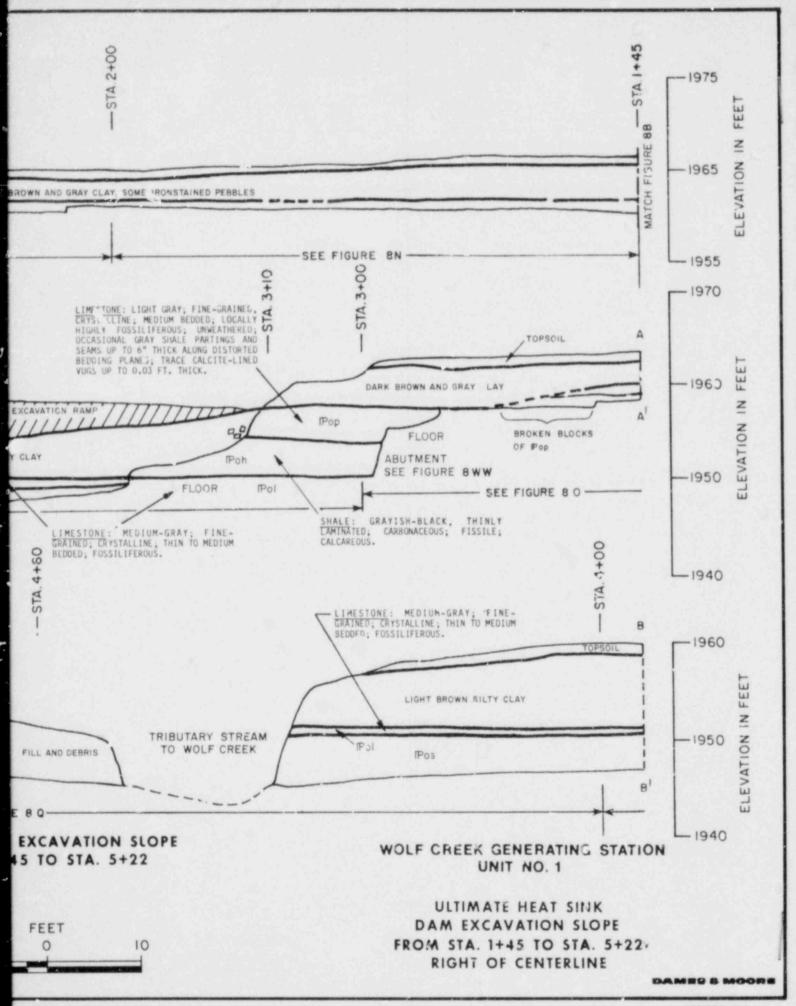


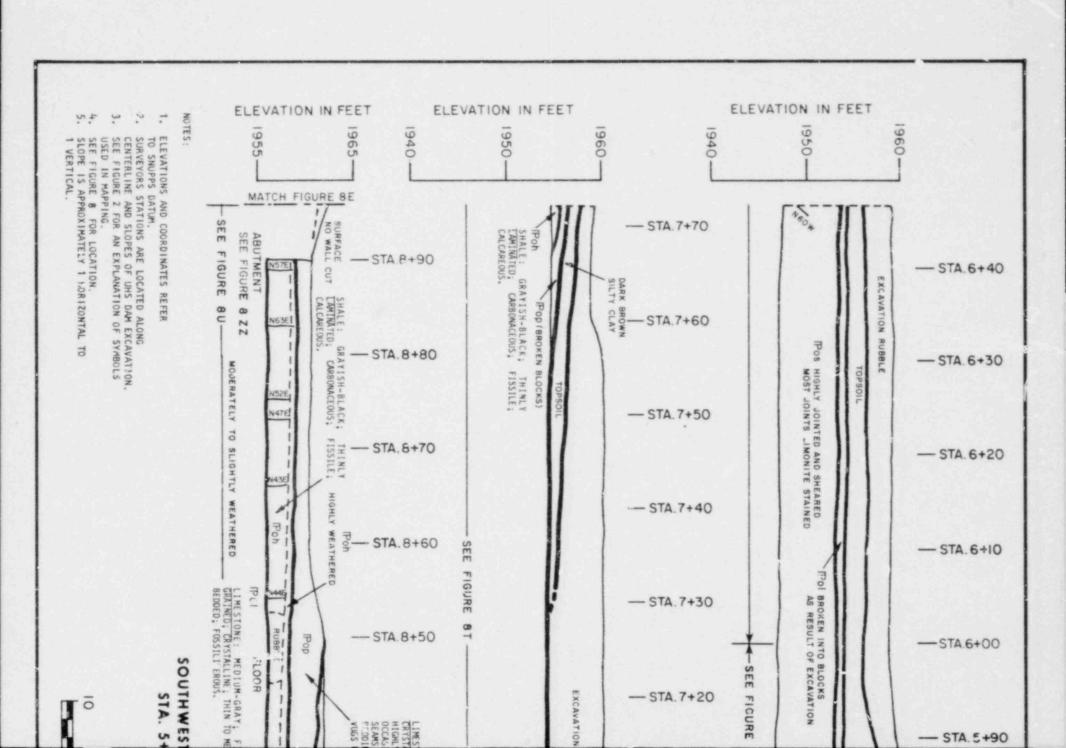


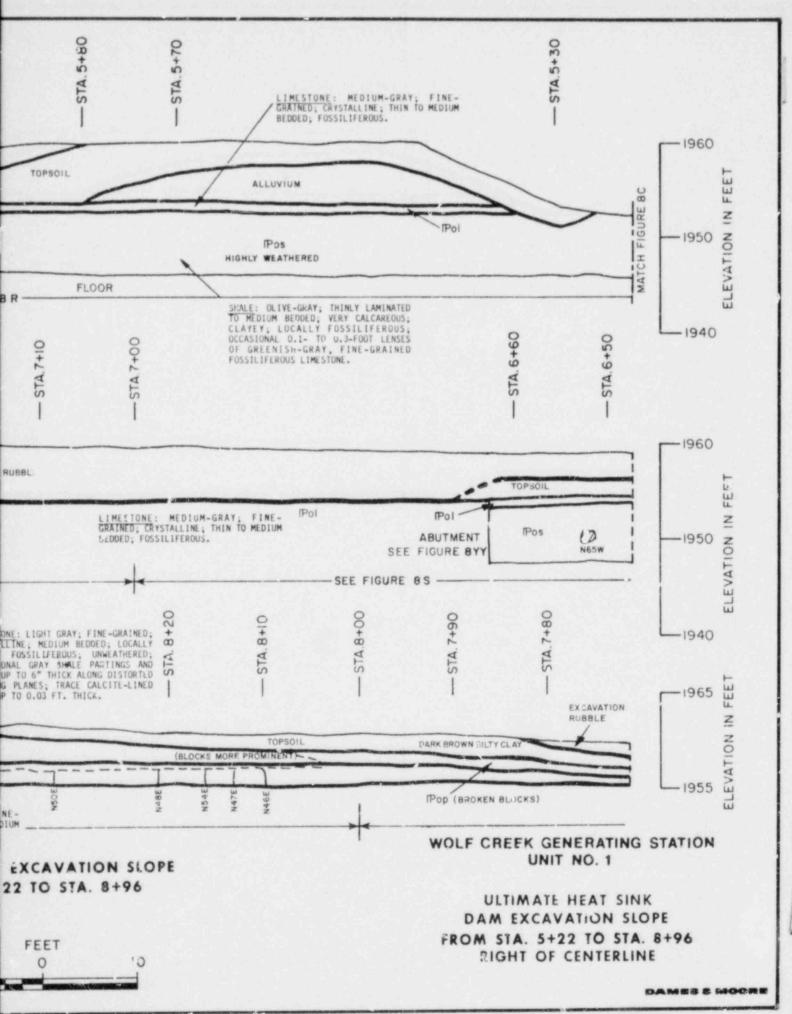


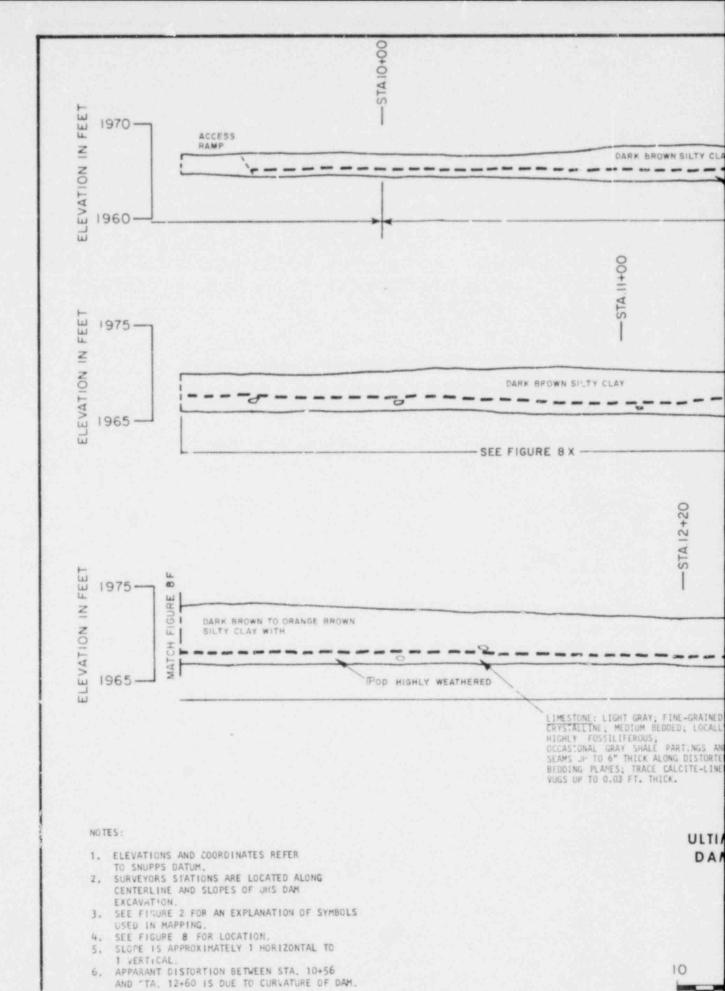


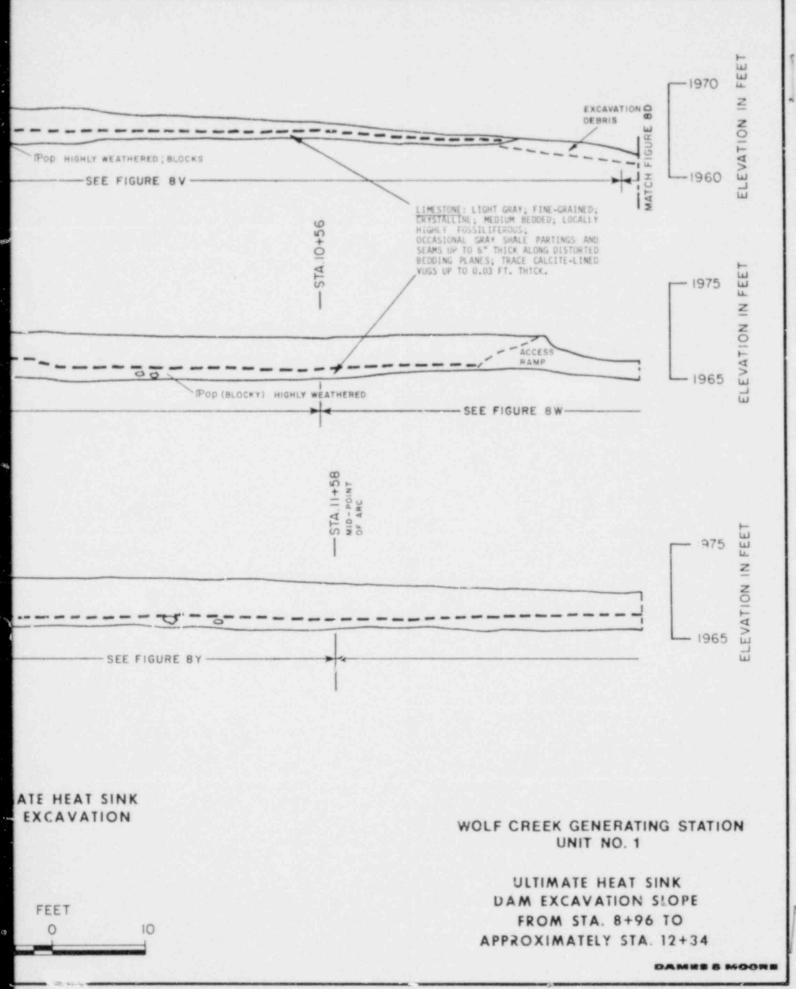


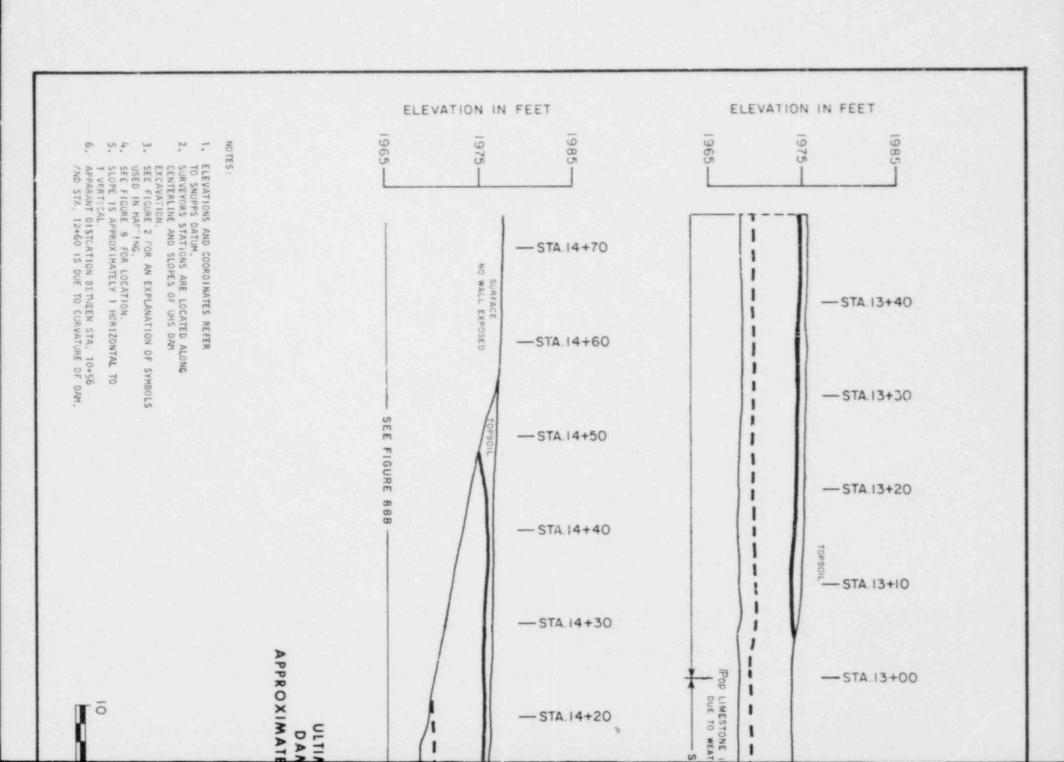


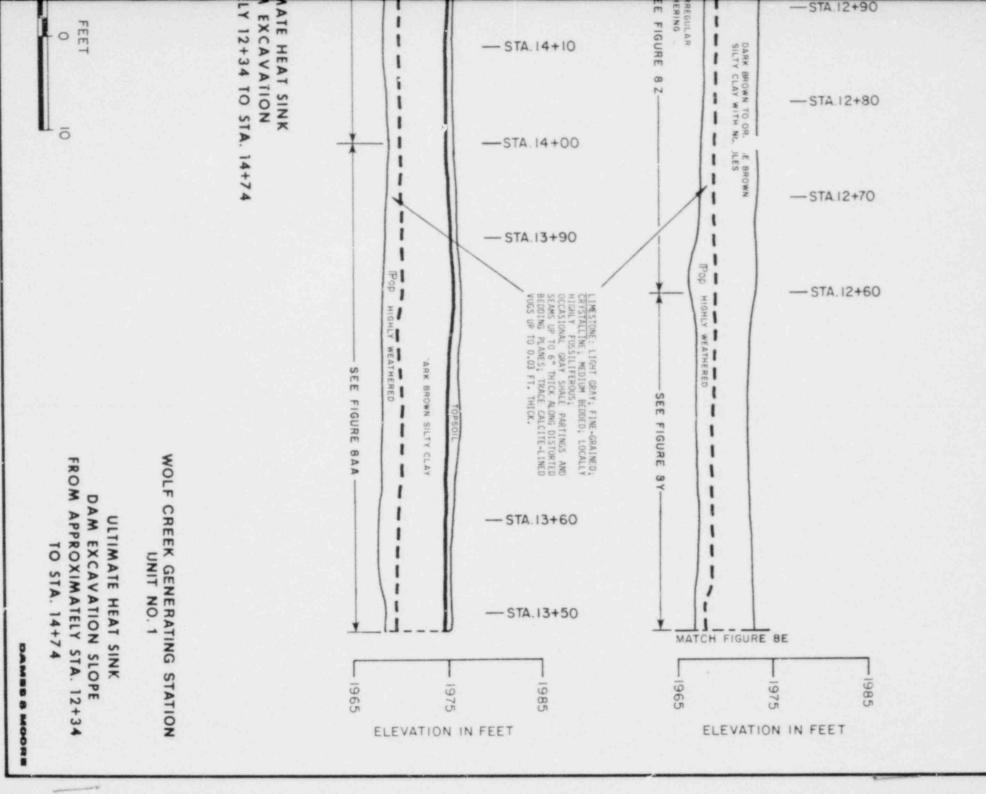


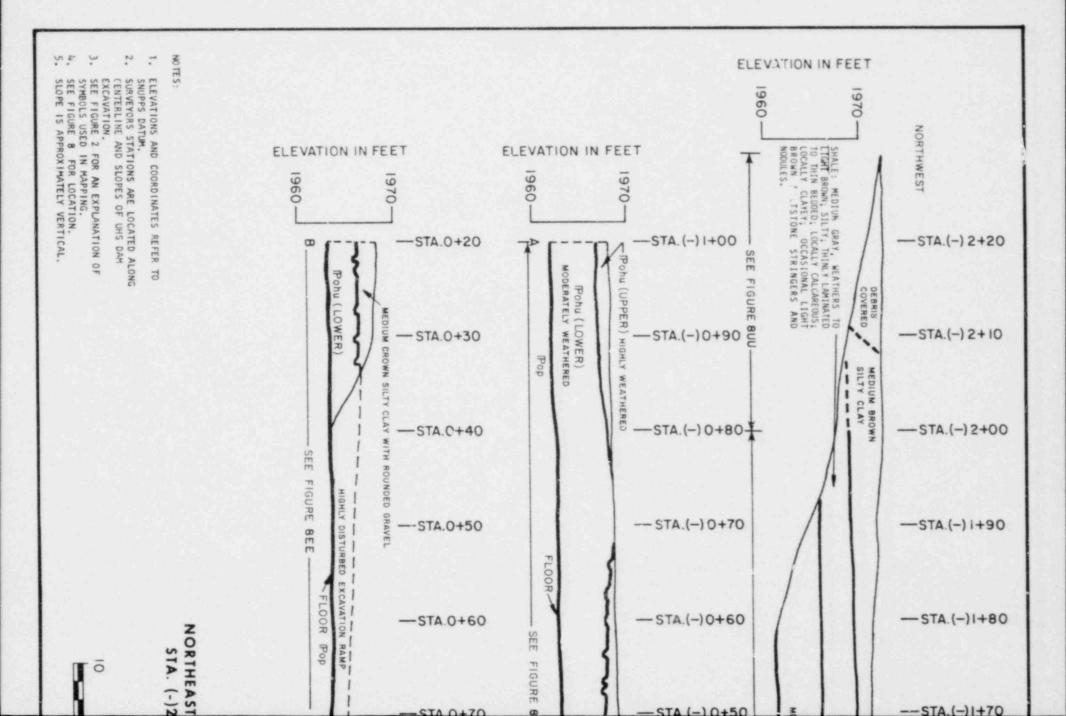


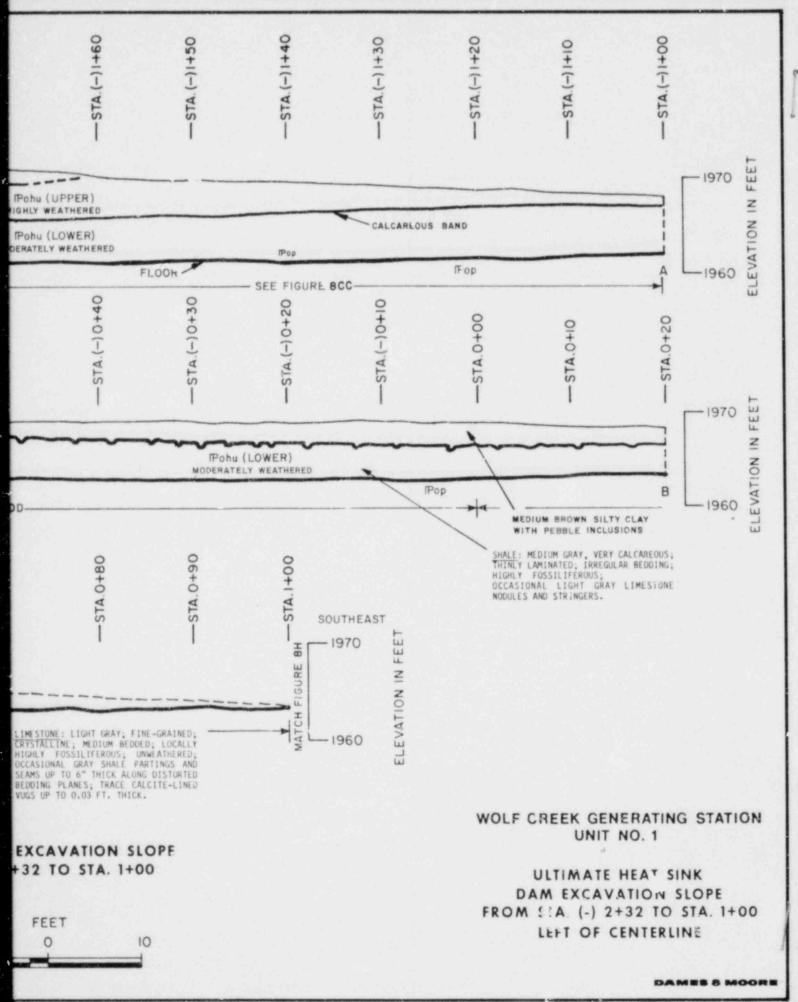




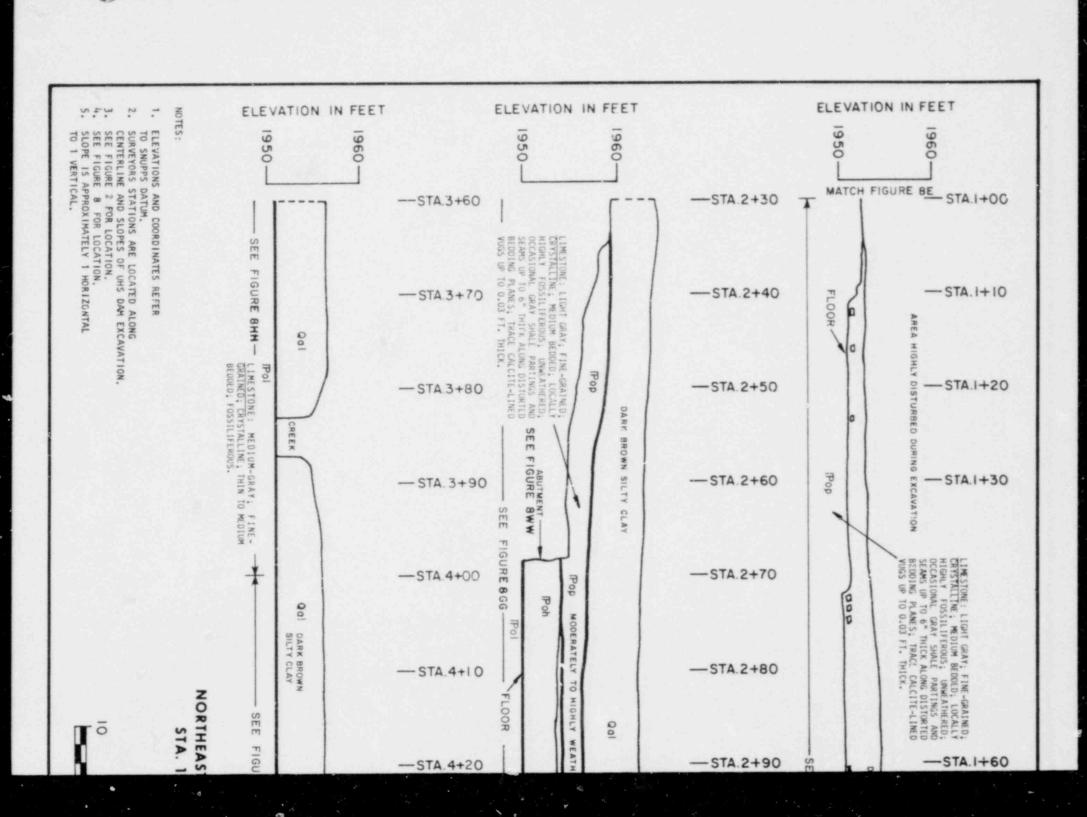


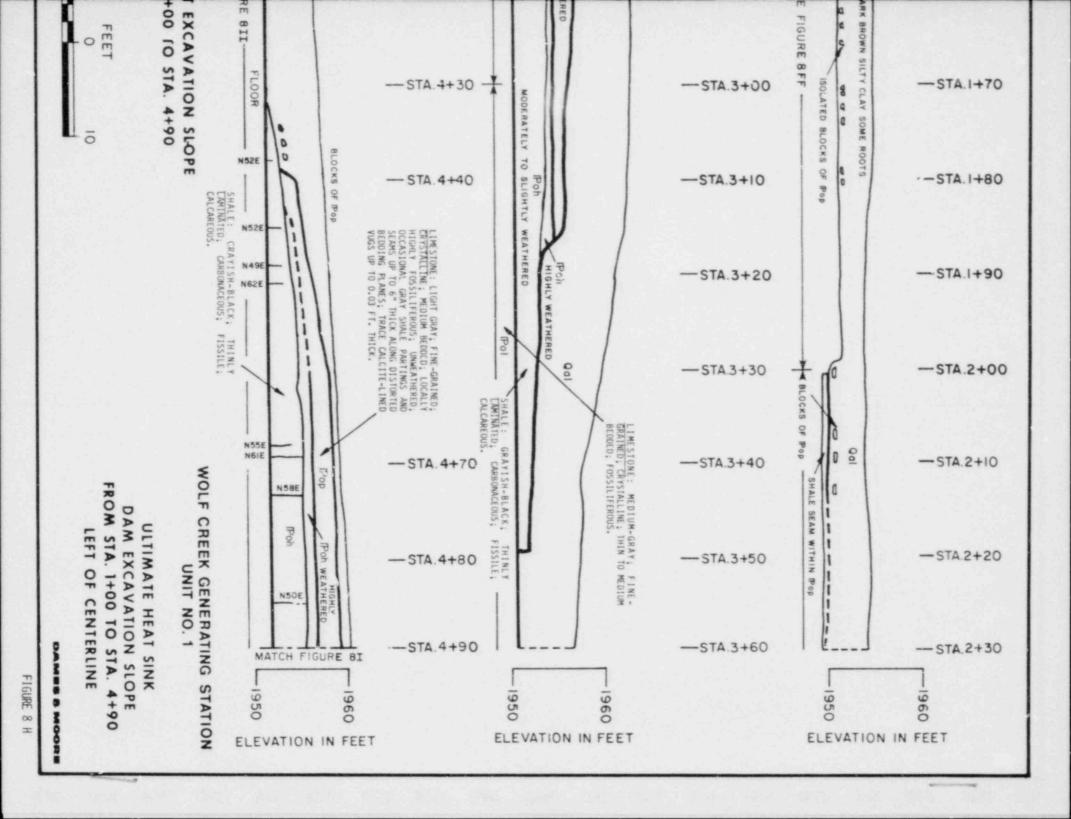


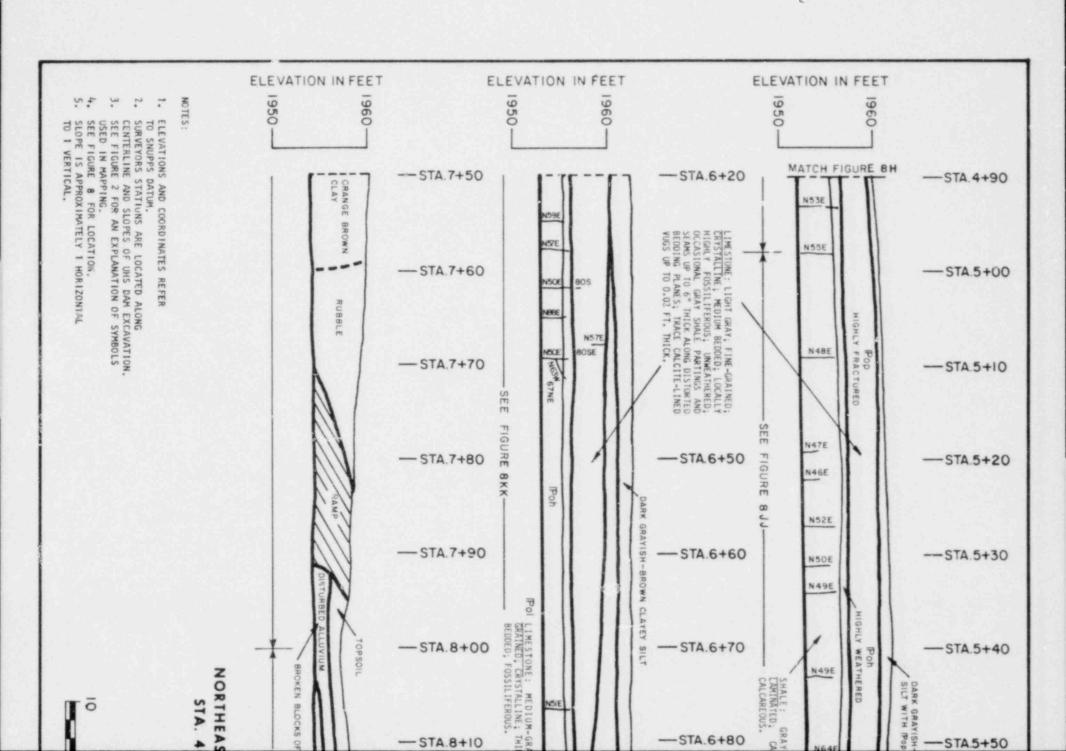


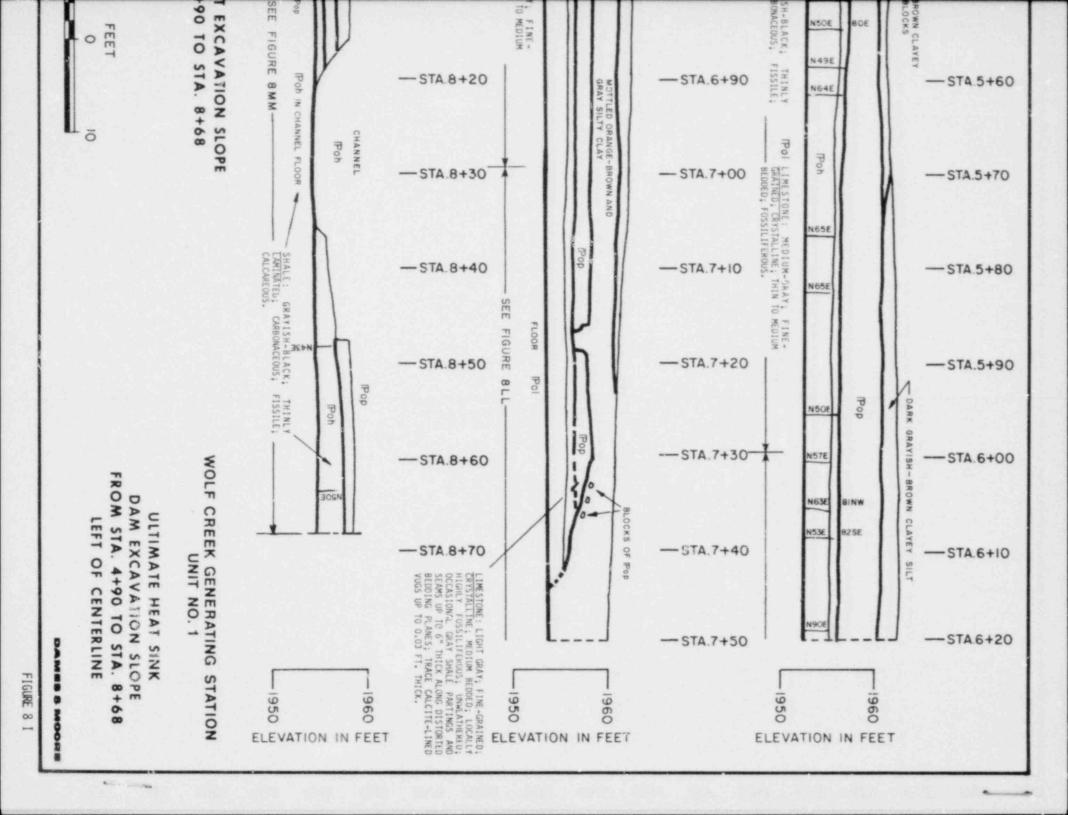


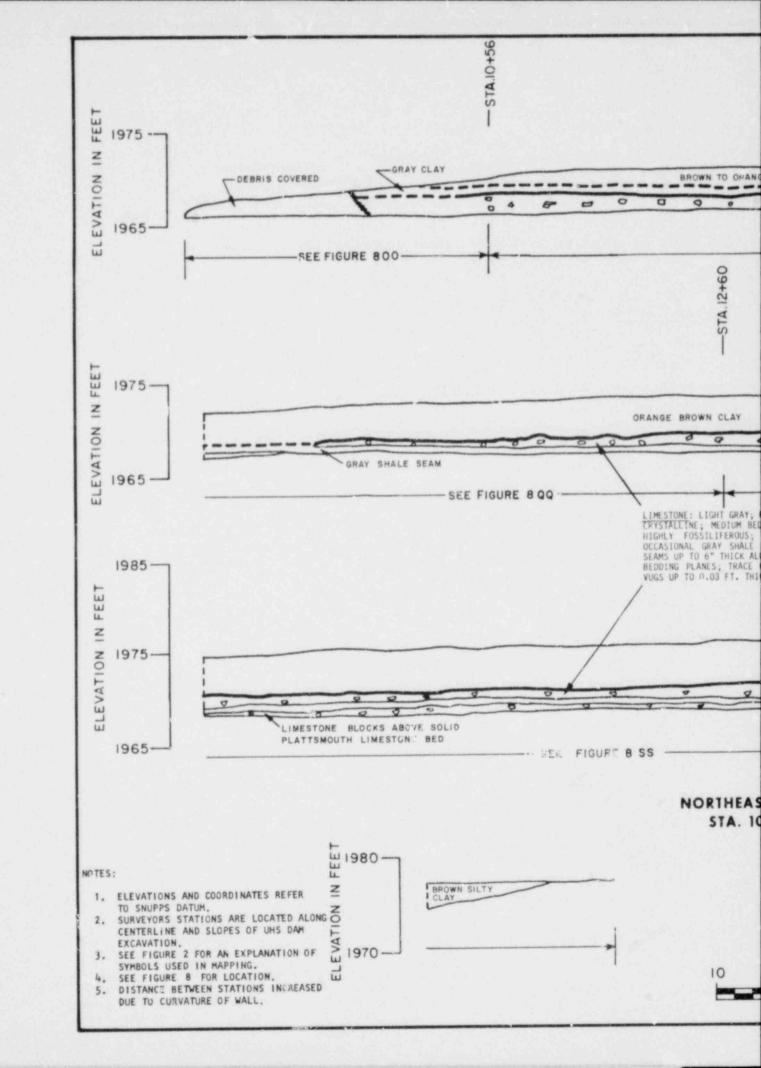
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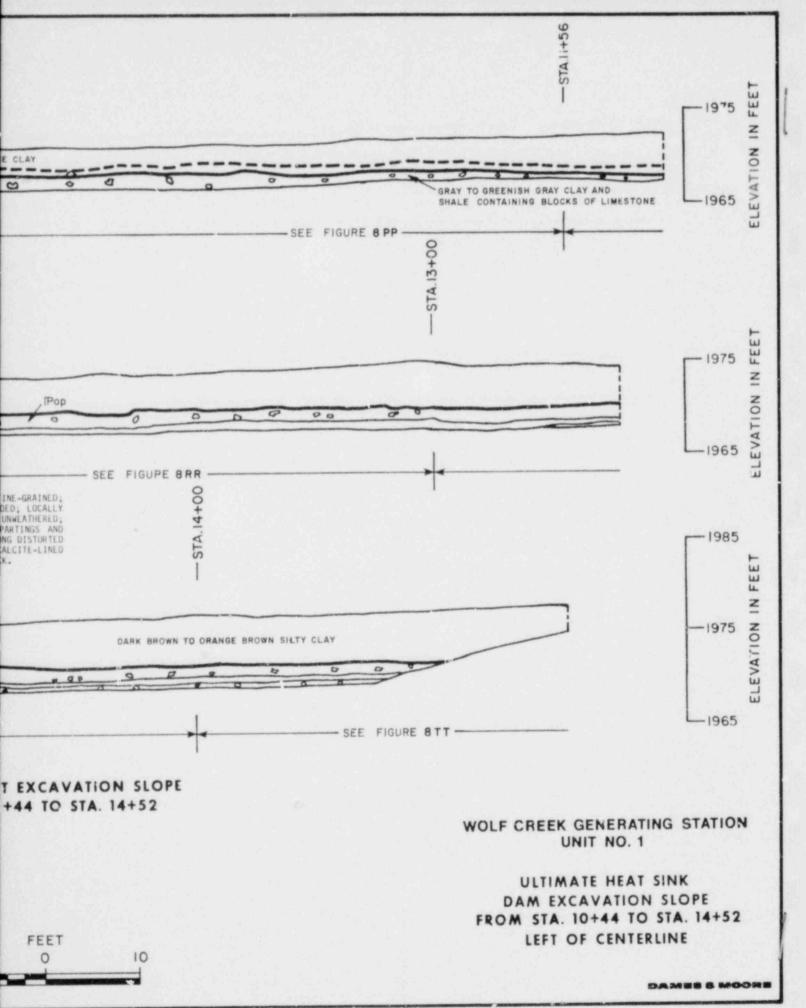












EL.1969.4

Pohu (LOWER)

MODERATELY TO HIGHLY WE

BASE OF SLOPE

SEE FIGURE 88

SHALE: MEDIUM GRAY, VERY CAL THINLY LAMINATED; IRREGULAR HIGHLY FOSSILIFEROUS; OCCASIONAL LIGHT GRAY LI NODULES AND STRINGERS.

NOTES:

- 1. ELEVATIONS AND COORDINATES REFER TO SNUPPS DATUM.
- 2. SURVEYORS STATIONS ARE LOCATED ALONG CENTERLINE AND SLOPES OF UHS DAM
- EXCAVATION.

 3. CEE FIGURE 2 FOR AN EXPLANATION OF SYMBOLS USED IN MAPPING.

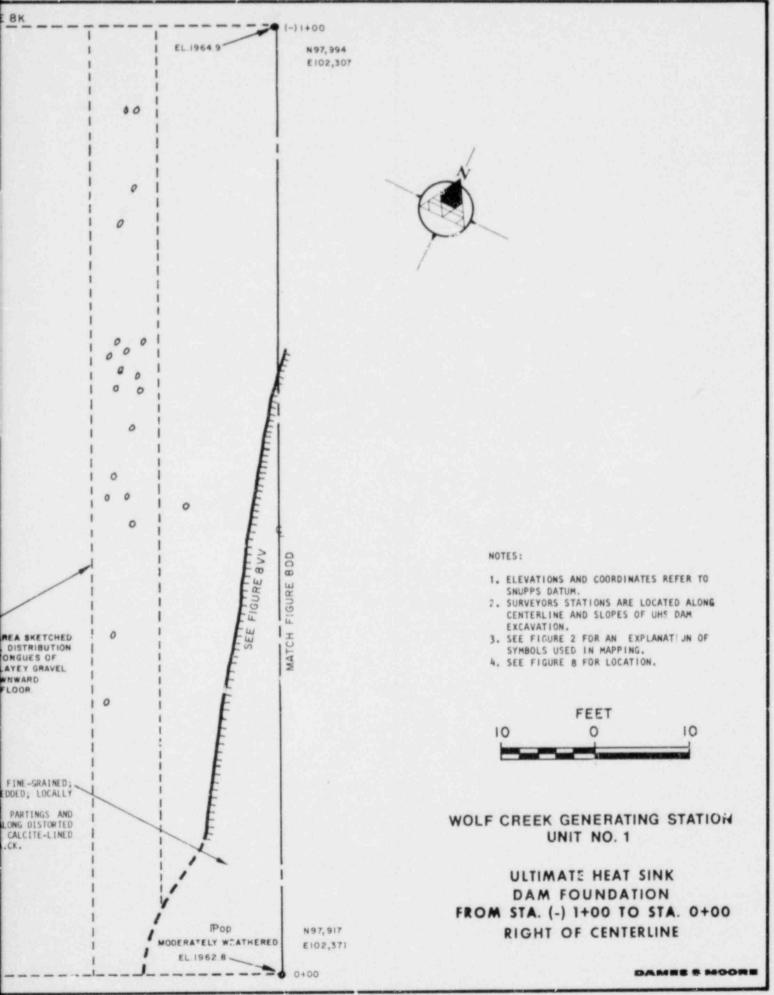
 4. SEE FIGURE 8 FOR LOCATION.

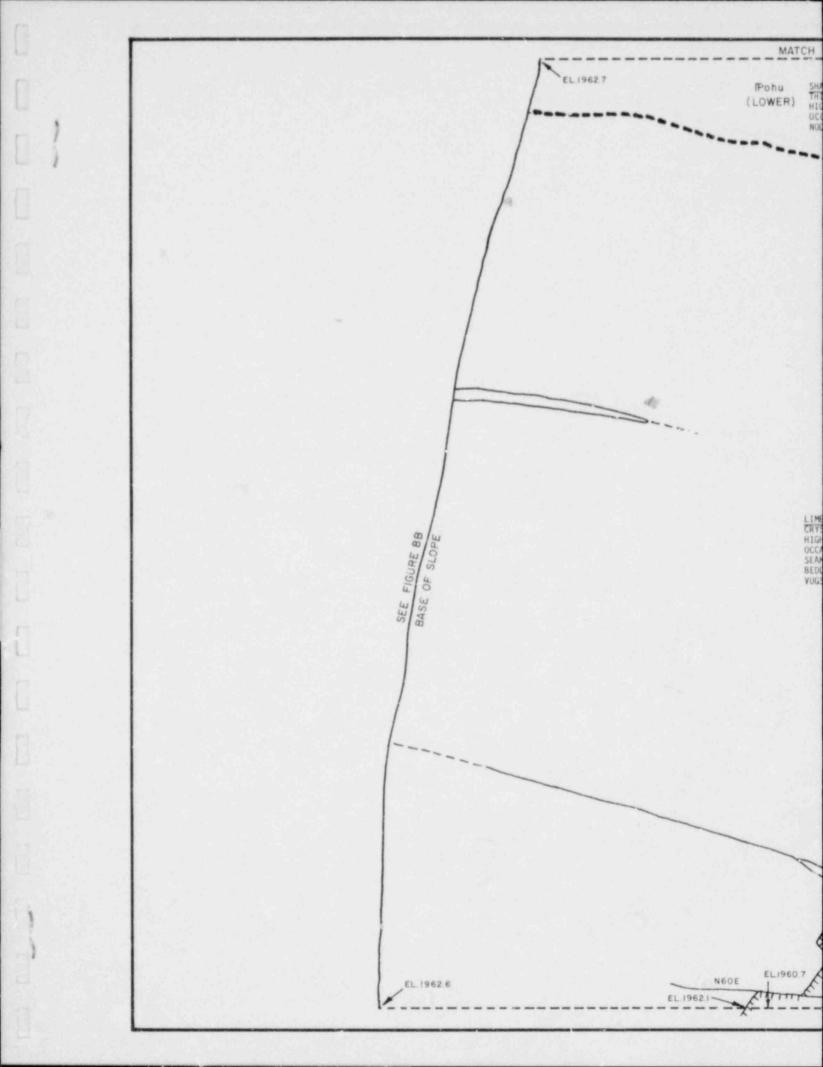
EL 19644

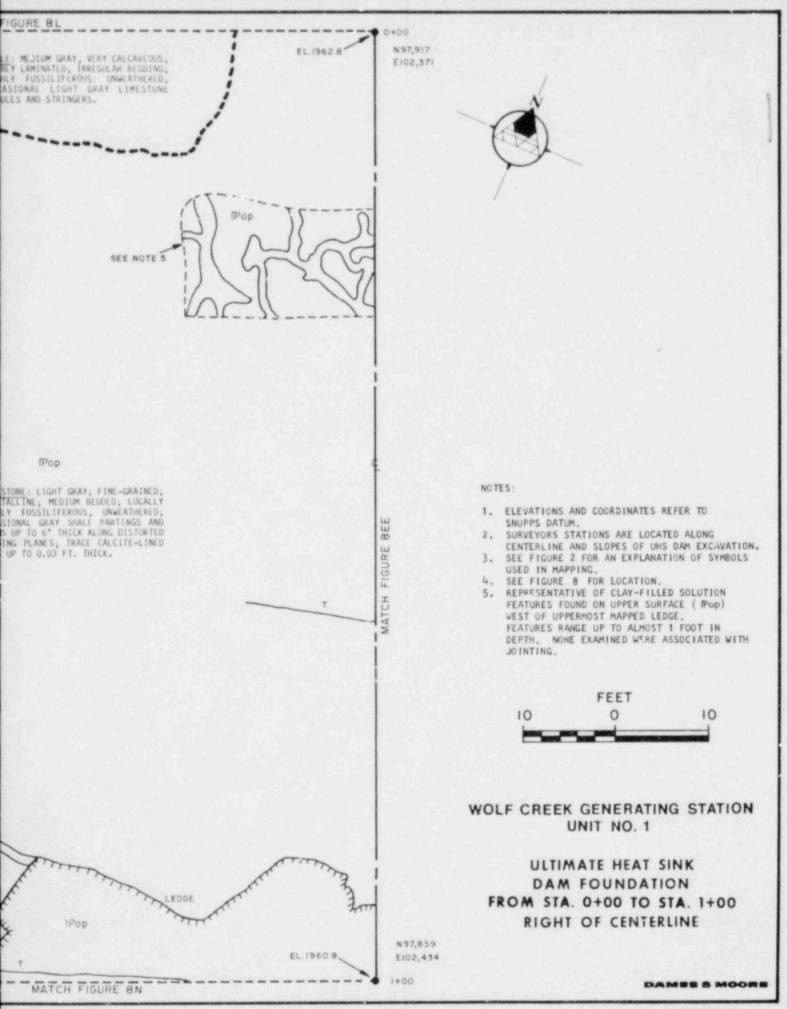
(-) 2+00 EL 1967.0-N98,071 E102,244 MATCH FIGURE BCC THERED AREOUS; EDDING; MESTONE FEET 10 10 WOLF CREEK GENERATING STATION UNIT NO. 1 ULTIMATE HEAT SINK DAM FOUNDATION FROM STA. (-) 2+00 TO STA. (-) 1+00 RIGHT OF CENTERLINE N 97, 994 EL 1964.9 £102,307

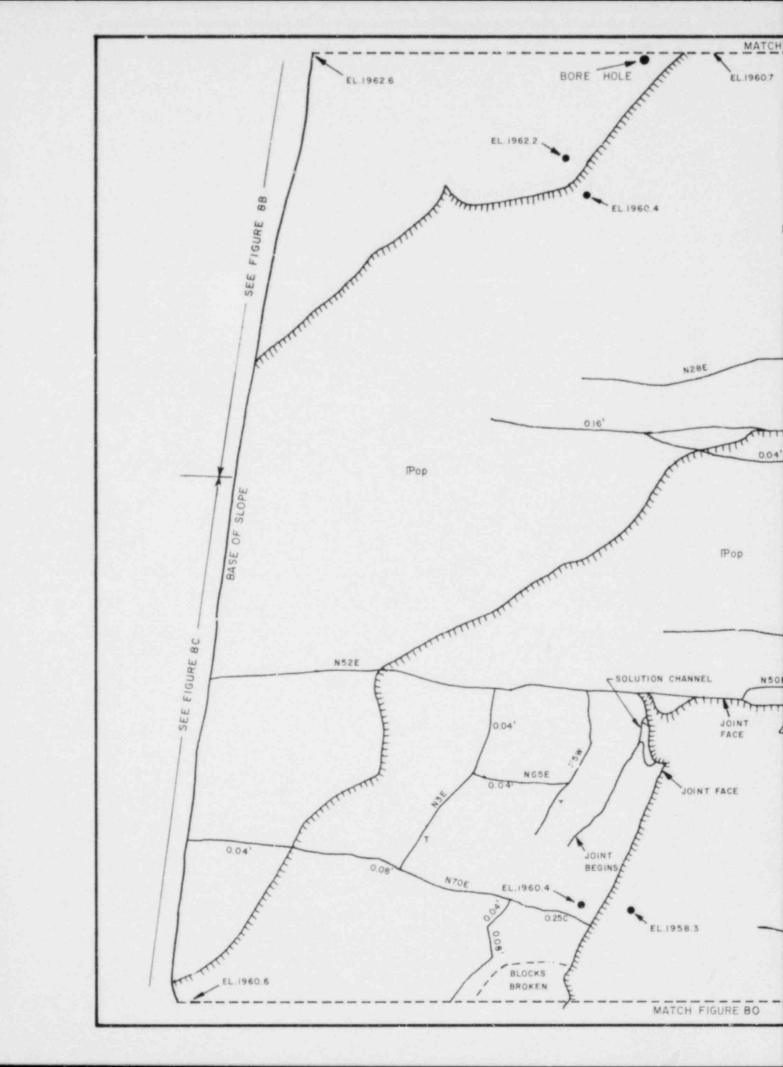
---- (-) 1+00

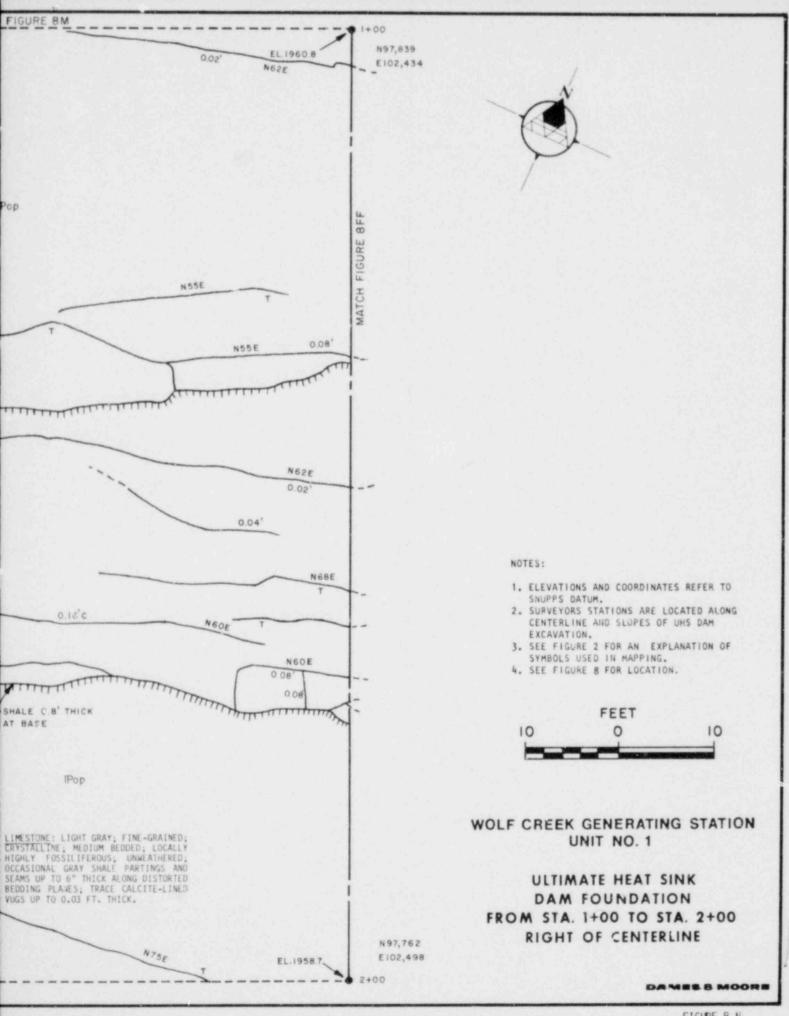
MATCH FIGU EI.. 19650 EL 19644 -(Pohu (LOWER) MODERATELY TO HIGHLY WEATHERED SHALE: MEDIUM GRAY, VERY CALCAREOUS; THINLY LAMINATED, IRREGULAR BEDDING; HIGHLY FOSSILIFEROUS; UCCASICNAL LIGHT GRAY LIMESTONE NODGLES AND STRINGERS. EE FIGURE 88 BASE OF SOUNDARY OF SHOWS TYPIC OF CIRCULAR WEATHERED EXTENDING O LIMESTONE: LIGHT GRA CRYSTALLINE; MEDIU' HIGHLY FOSSILIFEROU OCCASIONAL GRAY JHA SEAMS UP TO 6" THICK BEDDING PLANES; TRA VUGS UP TO 0.03 FT. EL.19627_ MATCH FIGURE 8M

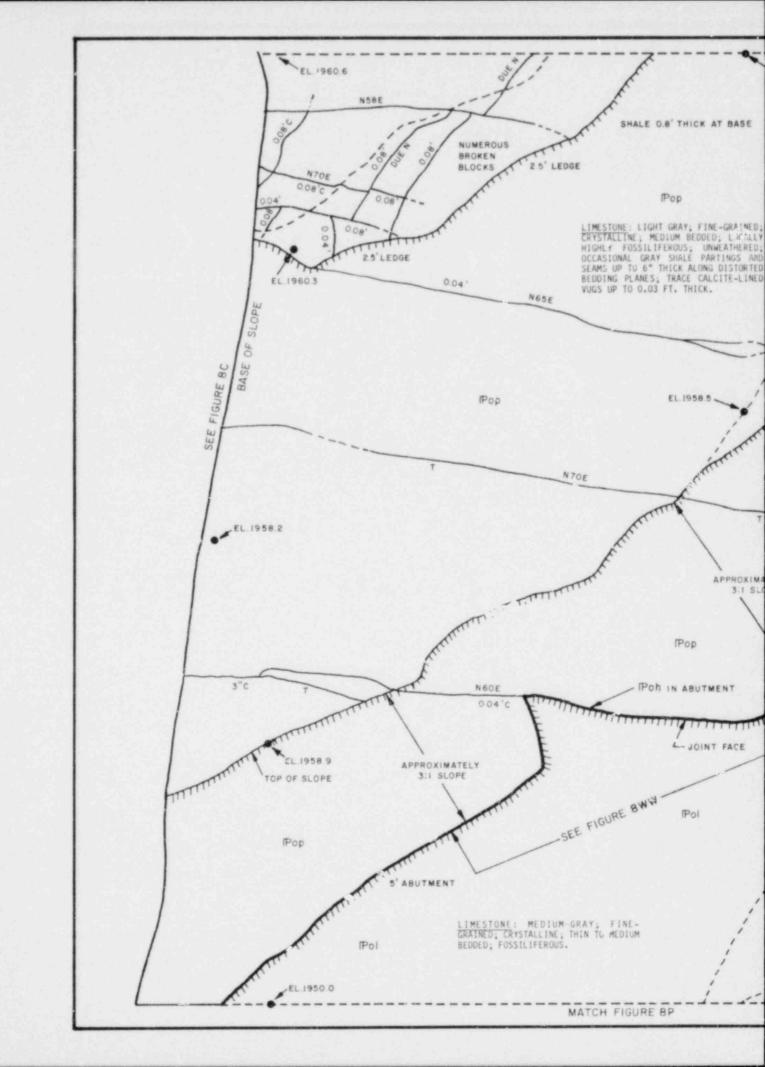


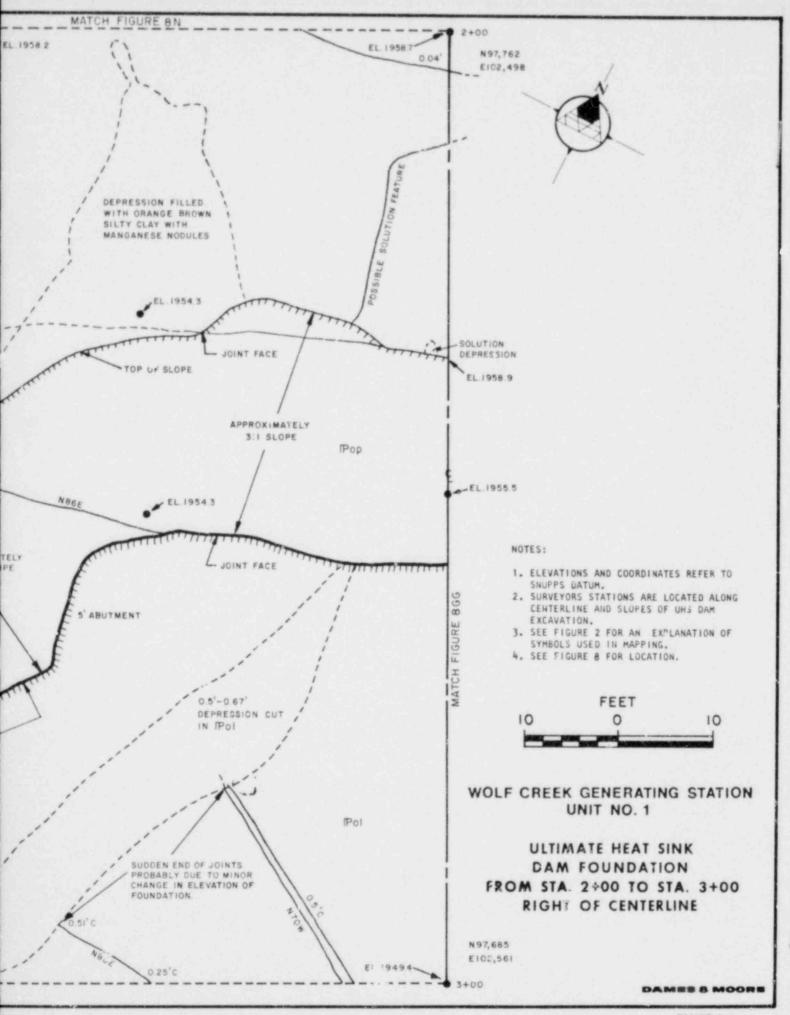


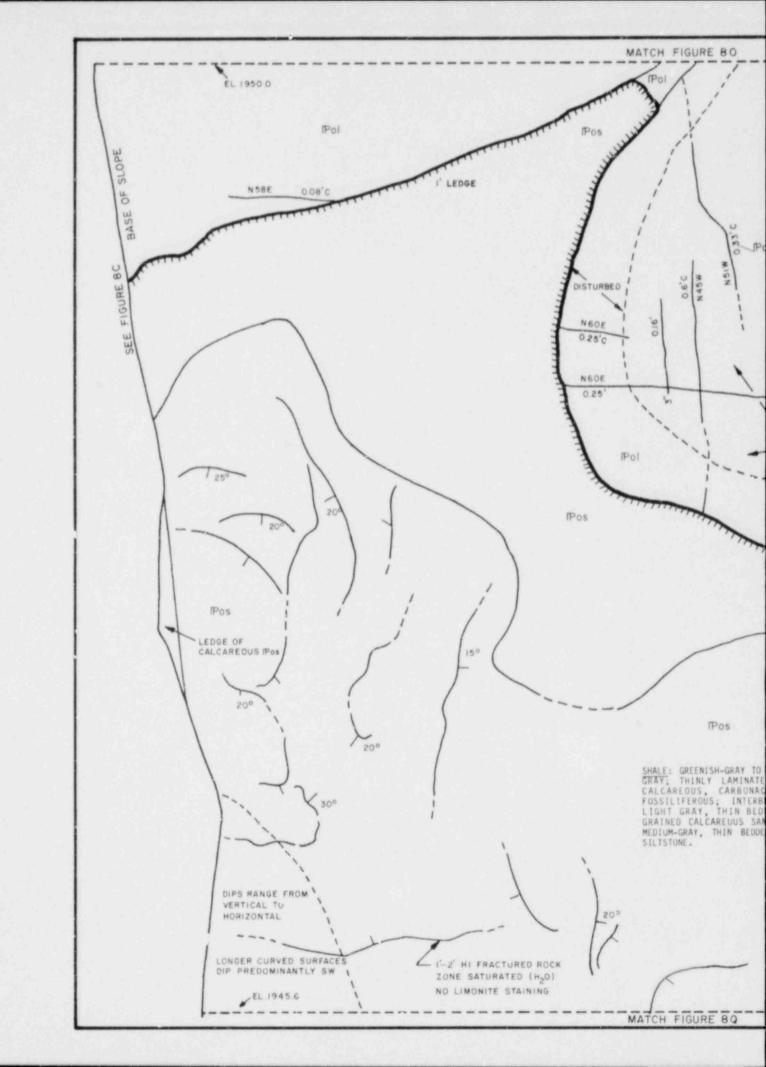


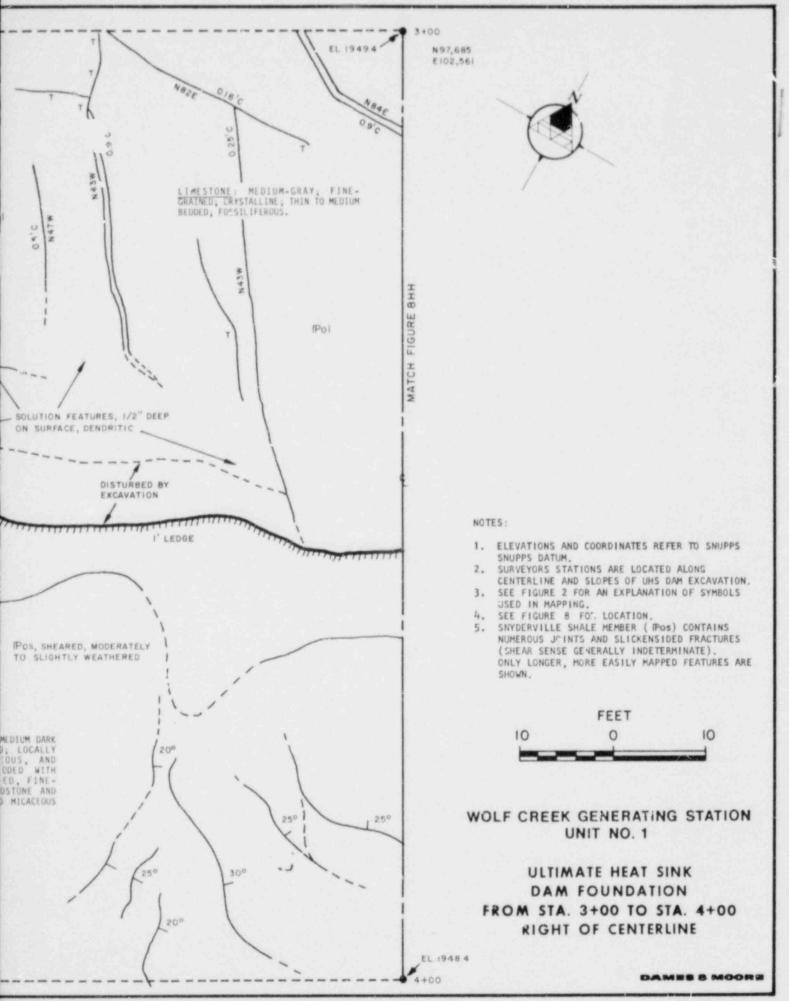


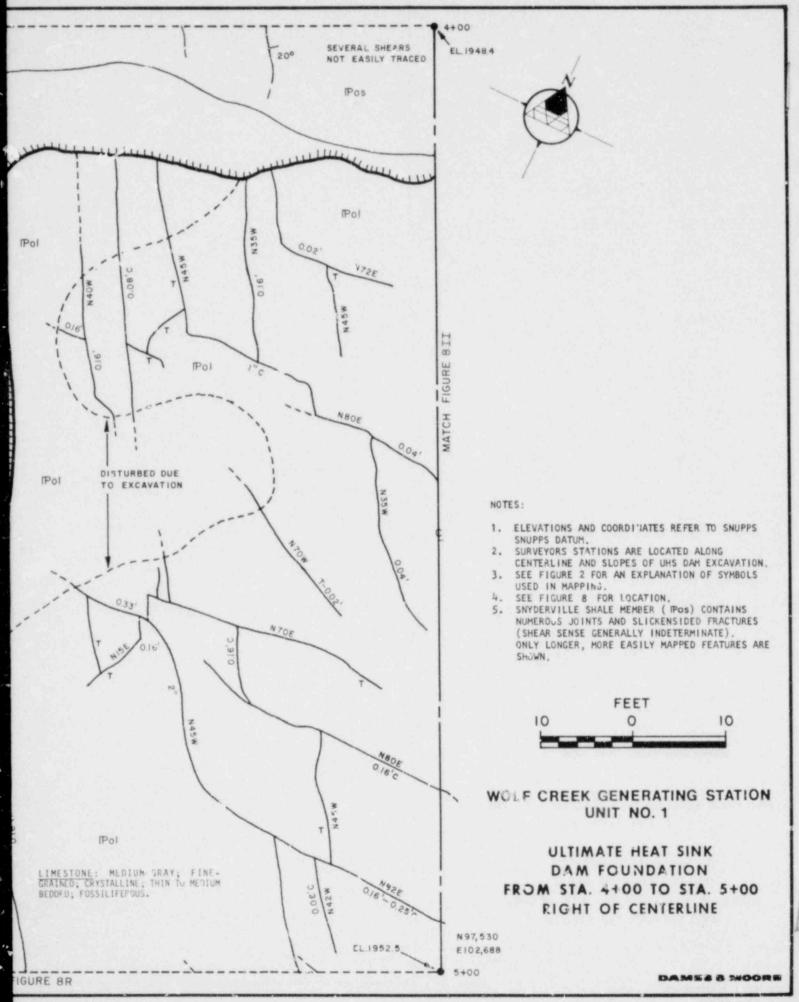


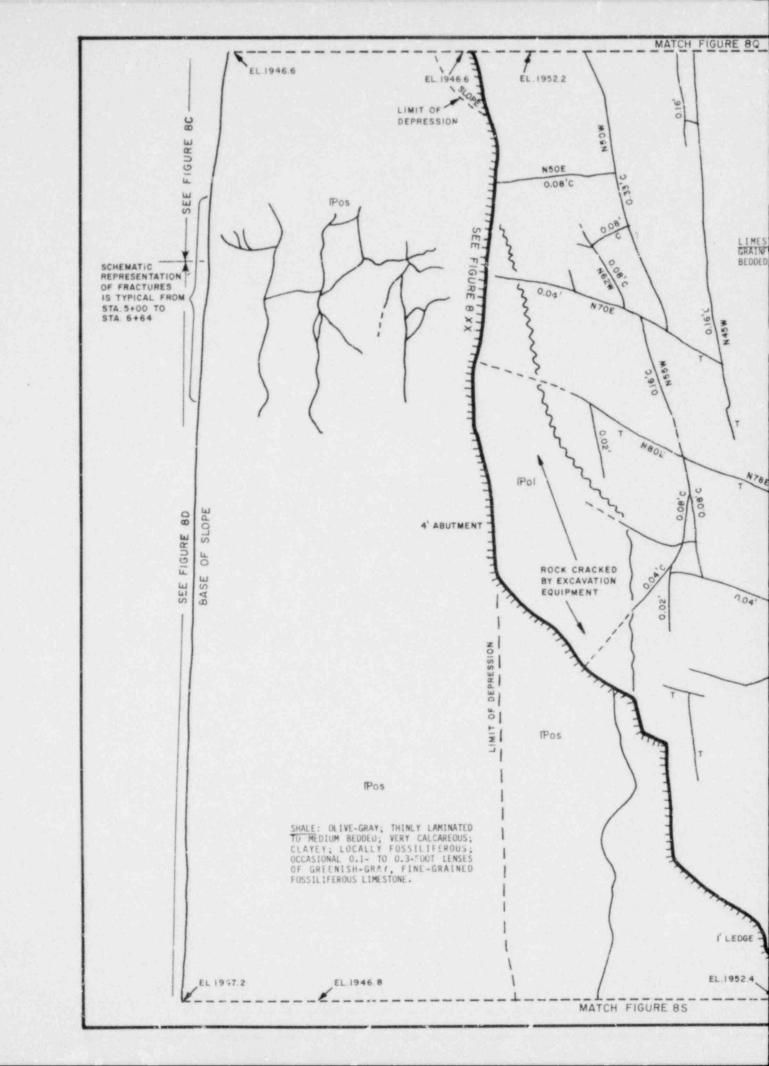


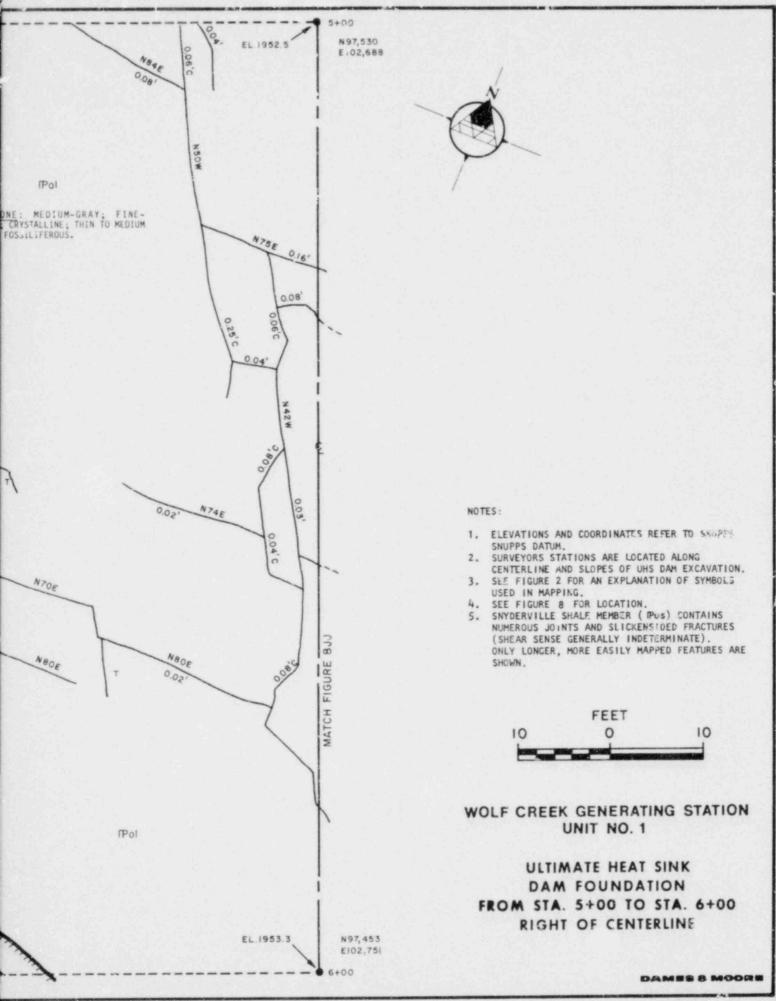


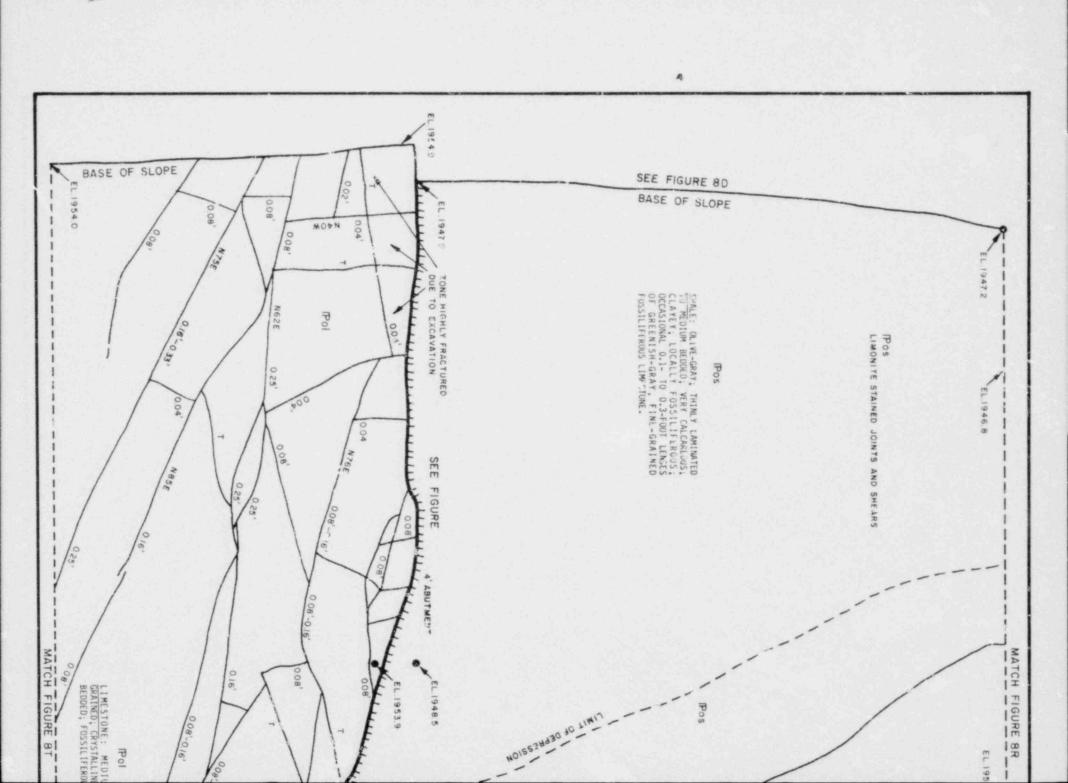


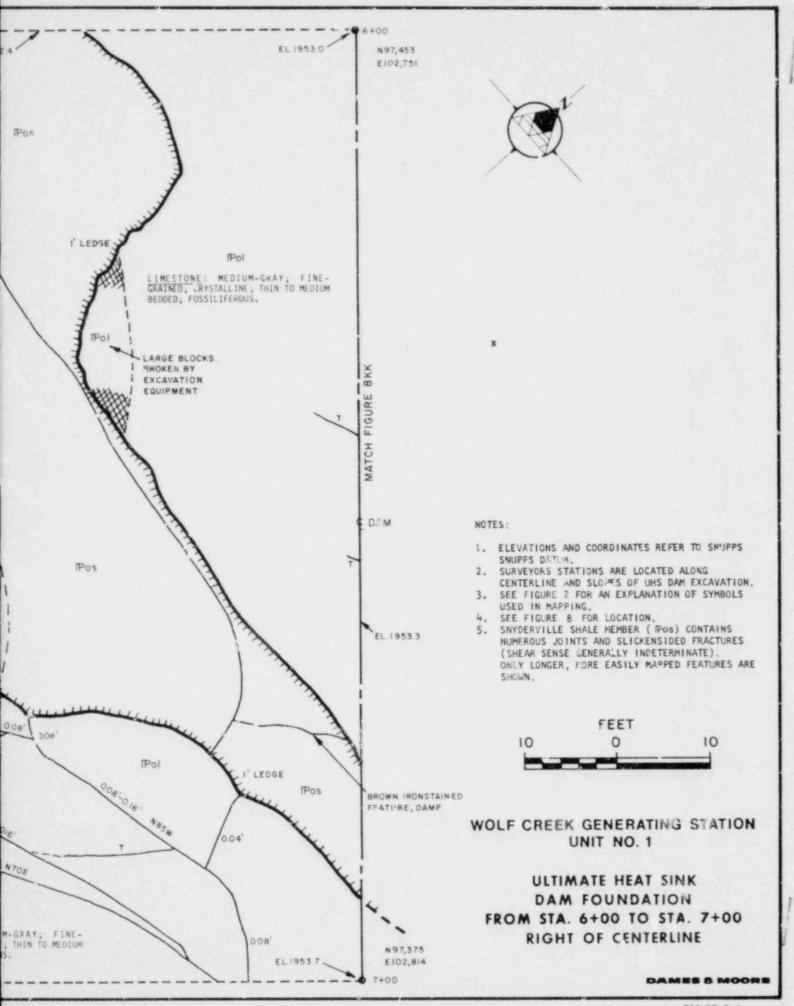


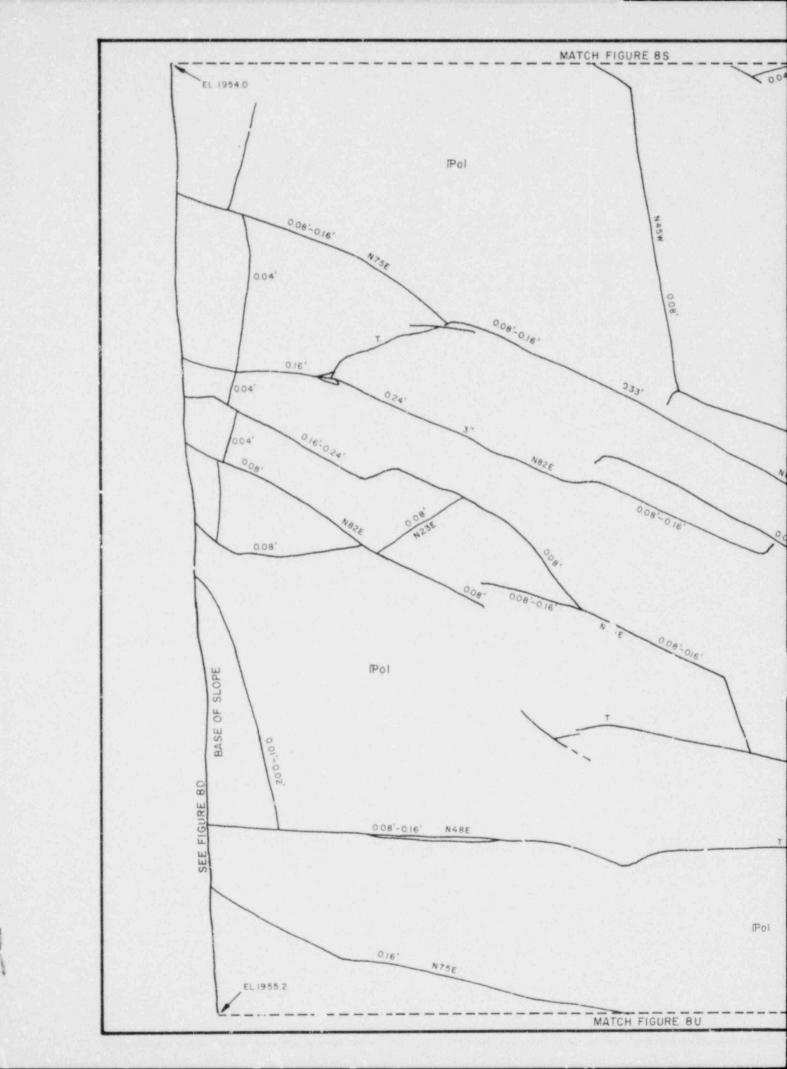


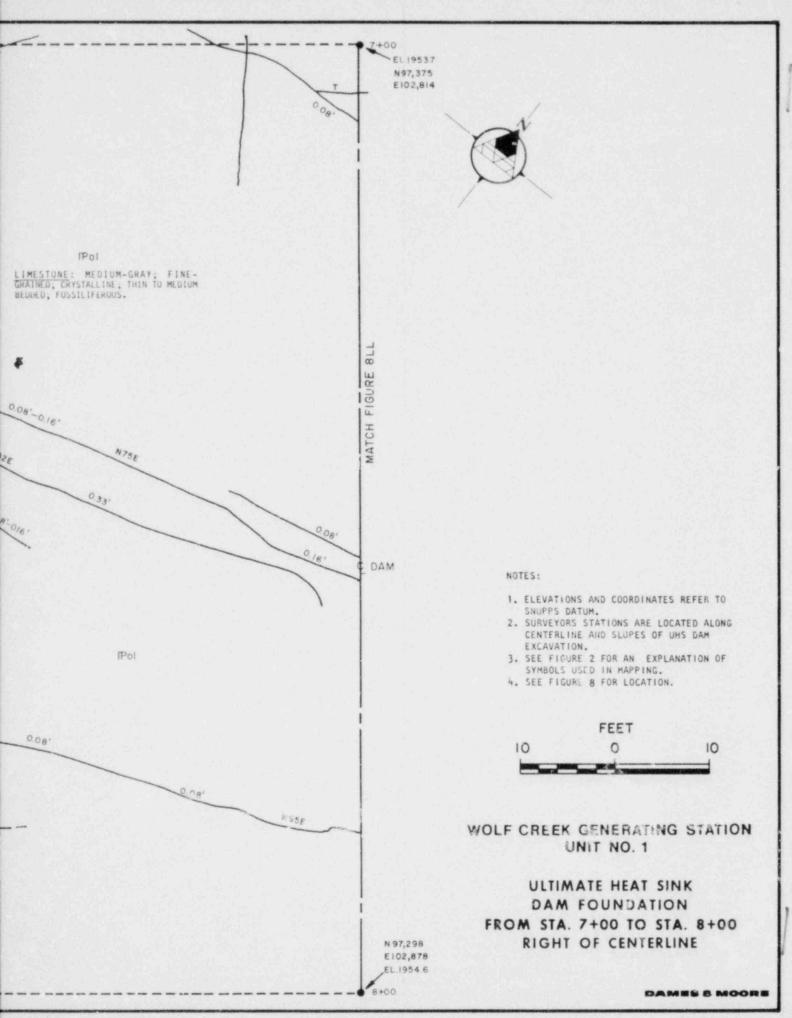


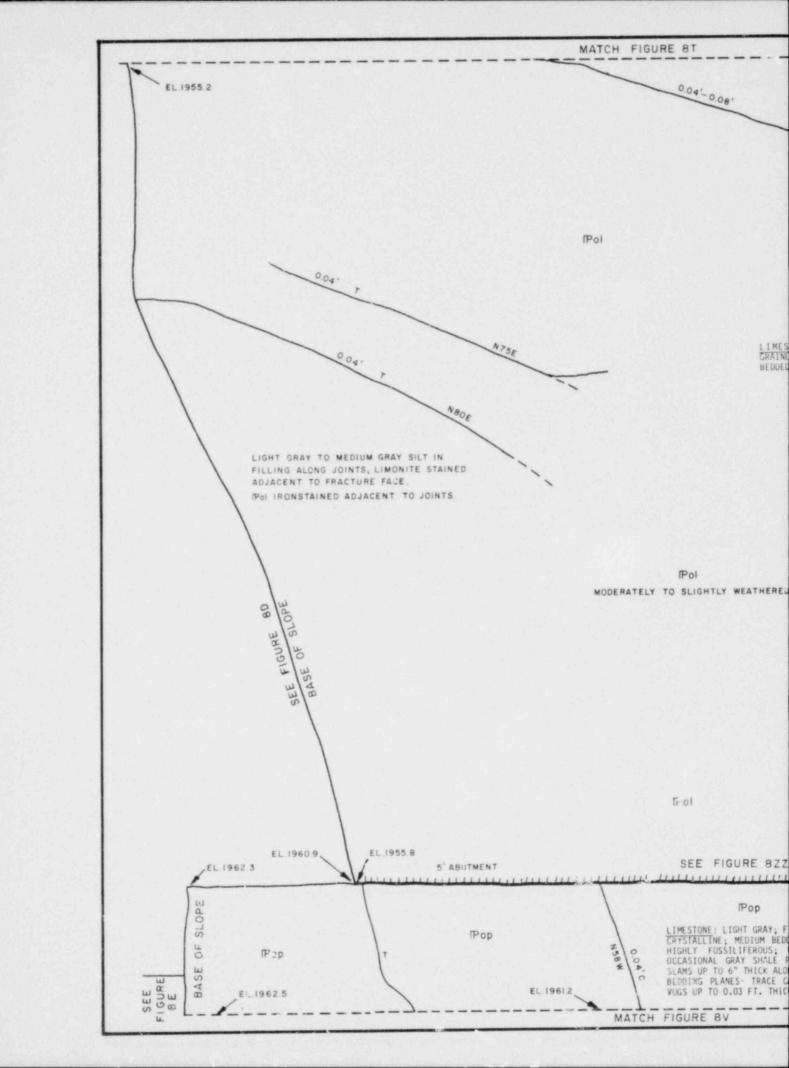


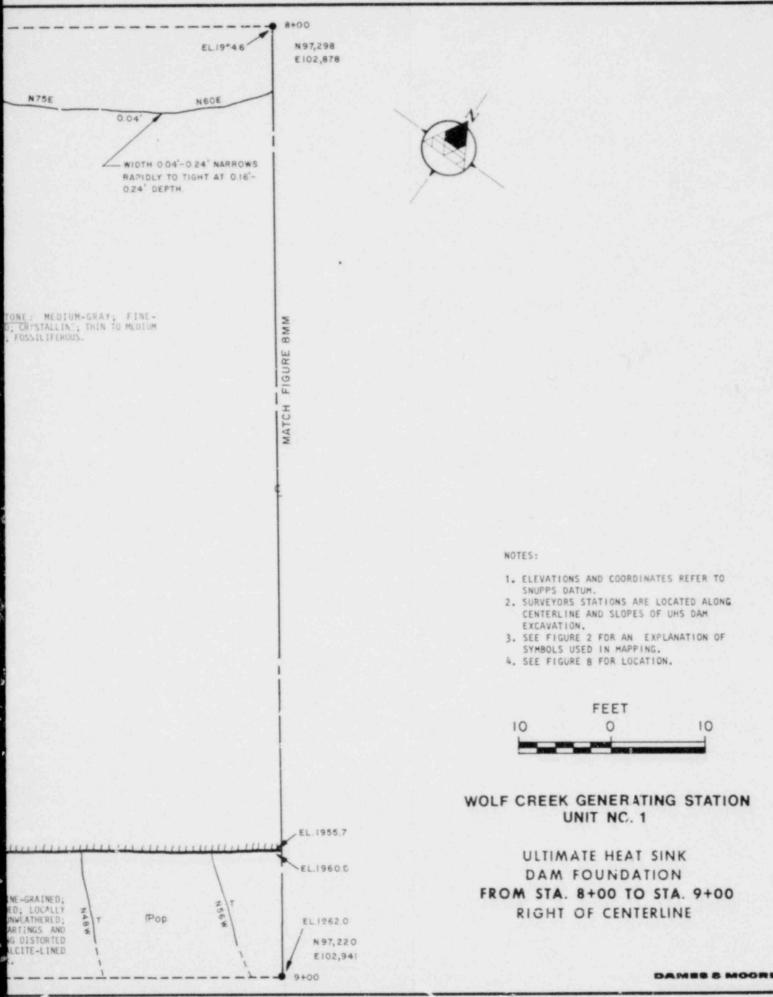


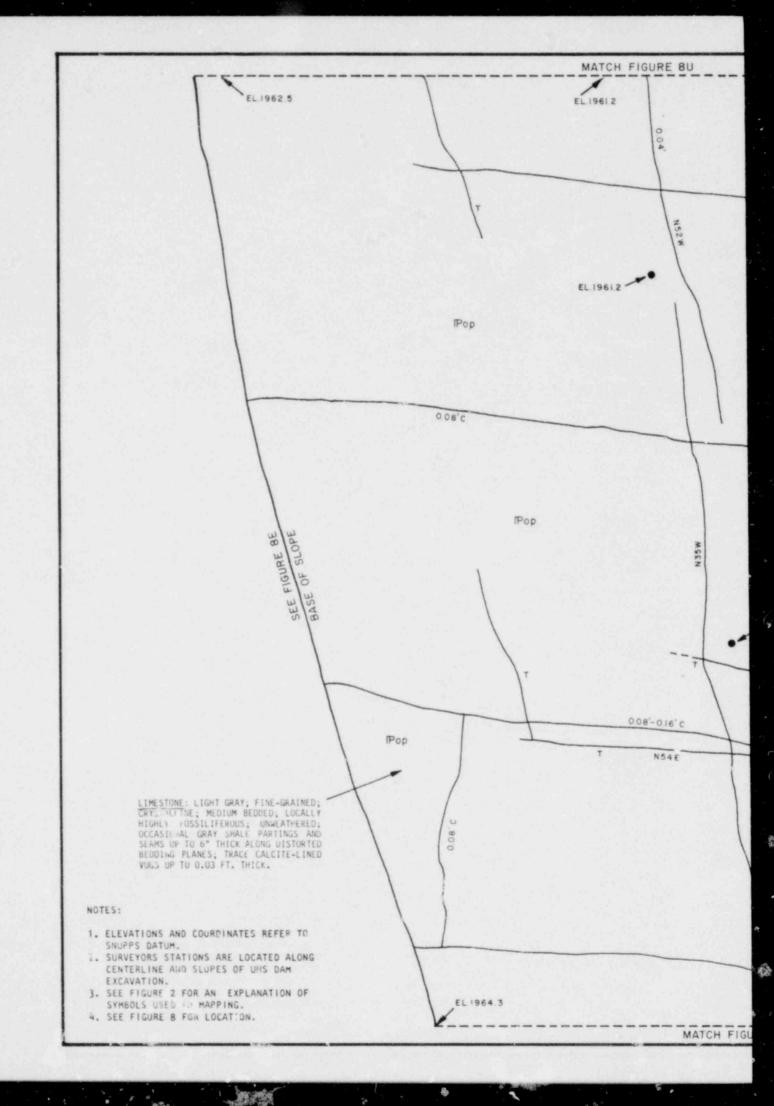


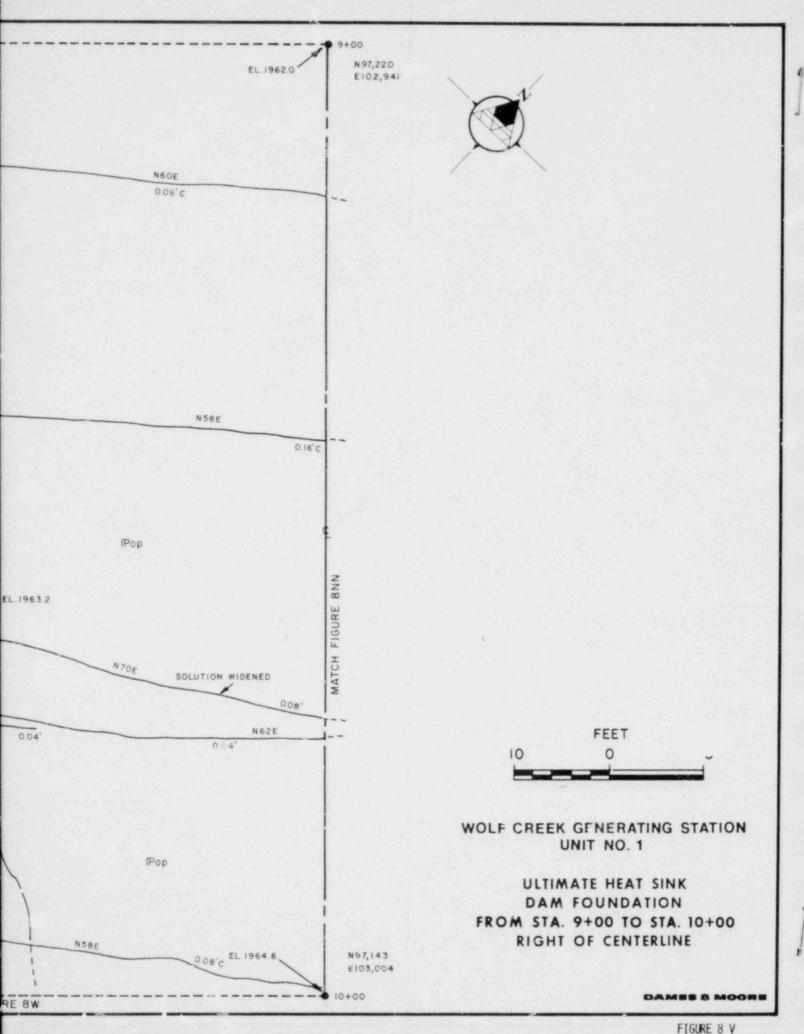


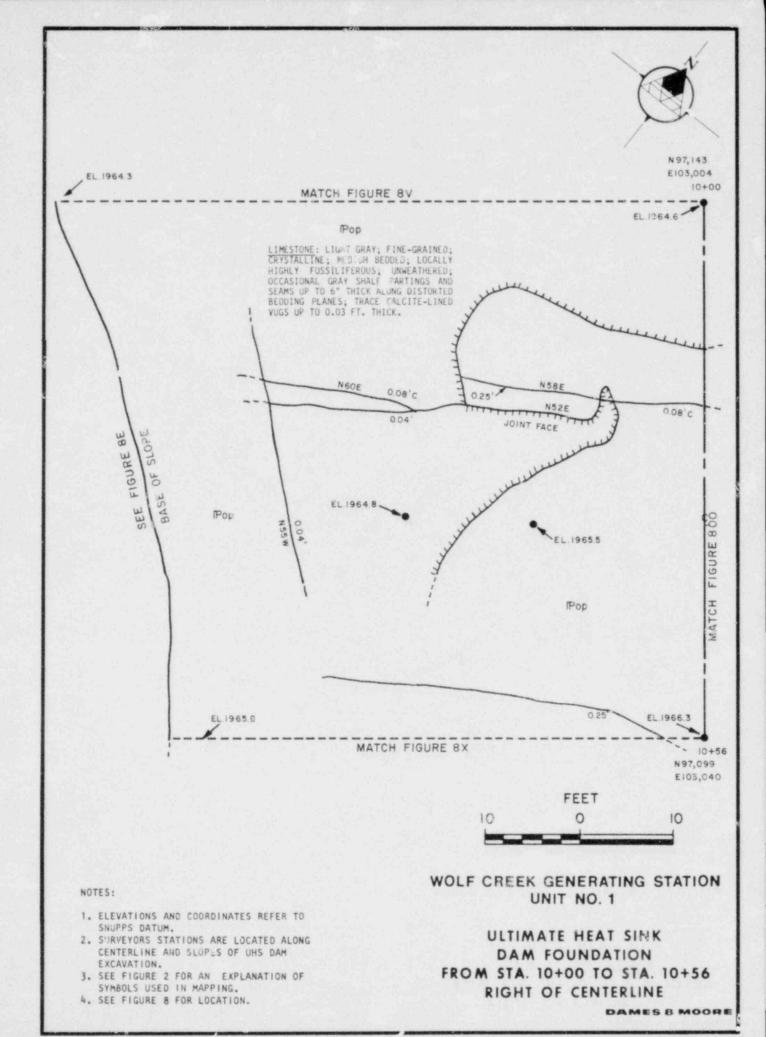


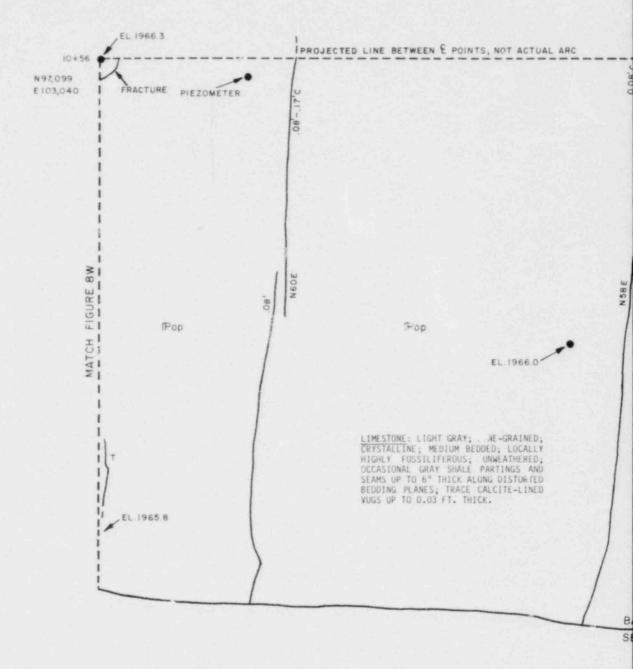




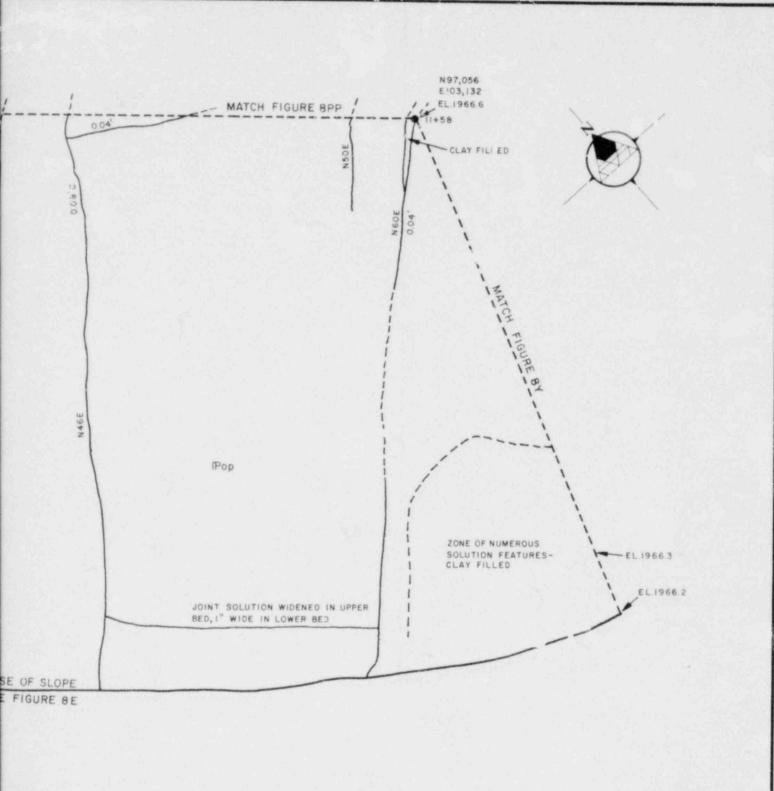








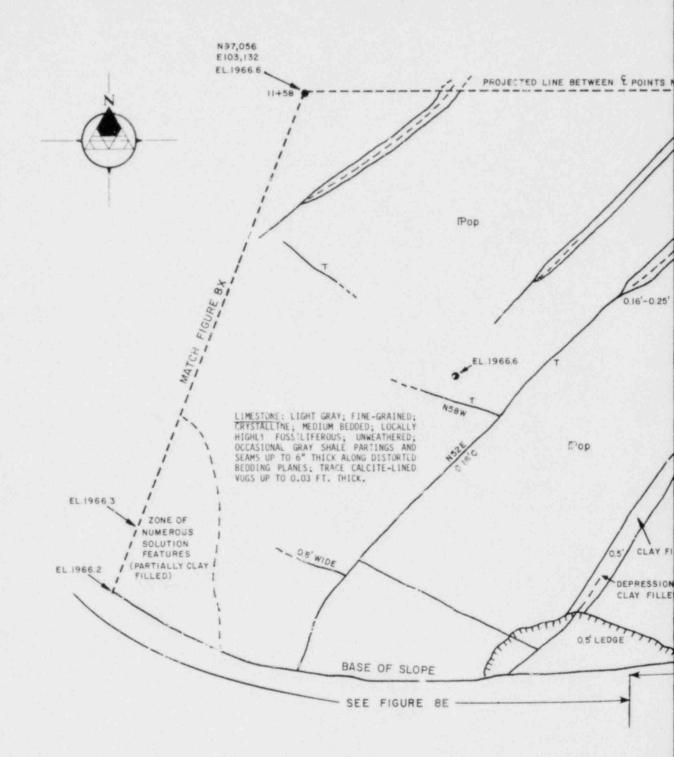
- 1. ELEVATIONS AND COORDINATES REFER TO SNUPPS DATUM
- SURVEYORS STATIONS ARE LOCATED ALONG CENTERLINE AND SLOPES OF UHS DAM EXCAVATION.
 SEE FIGURE 2 FOR AN EXPLANATION OF SYMBOLS
- USED IN MAPPING.
- 4. SEE FIGURE 8 FOR LOCATION.
 5. SEVERAL SMALL SOLUTION FEATURES TREND PAR LEL TO JOINTS SHOWN.



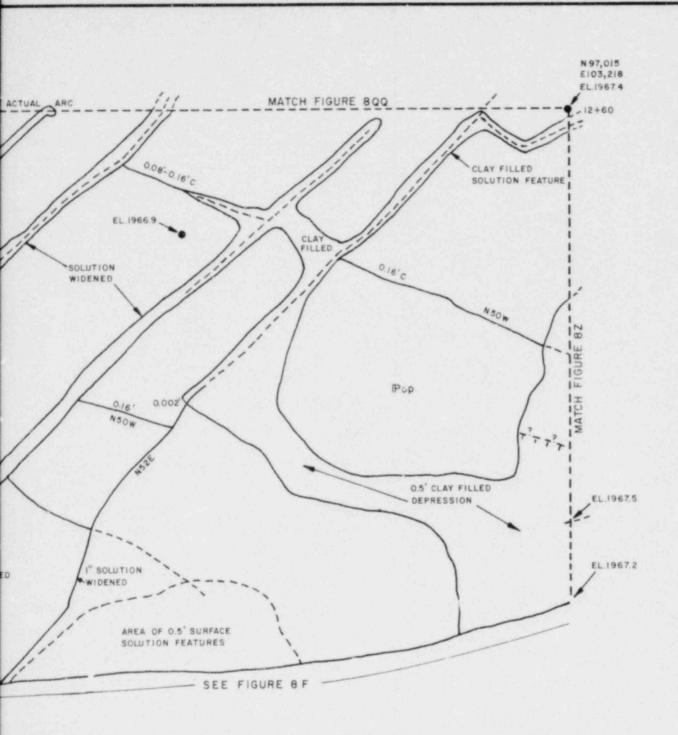
DAM FOUNDATION
FLOM STA. 10+56 TO STA. 11+58
RIGHT OF CENTERLINE

0 10

FEET



- 1. ELEVATIONS AND COORDINATES REFER TO SNUPPS DATUM.
- SURVEYORS STATIONS ARE LOCATED ALONG CENTERLINE AND SLOPES OF UHS DAM EXCAVATION.
- SEE FIGURE 2 FOR AN EXPLANATION OF SYMBOLS USED IN MAPPING.
- 4. SEE FIGURE 8 FOR LOCATION.
- PROMINENT SOLUTION FEATURES ARE SHOWN. EXCAVATION SURFACE CONTAINS NUMEROUS SMALLER FEATURES.

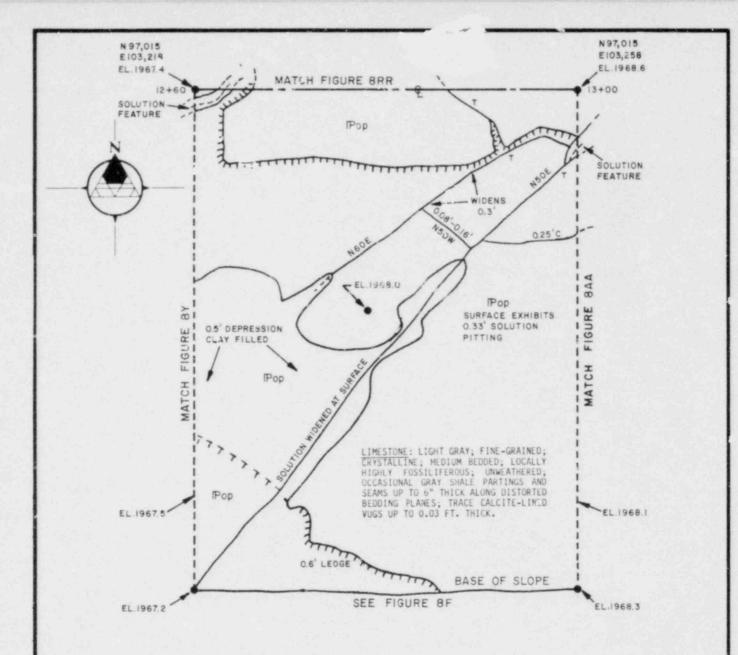


FEET

10

WOLF CREEK GENERATING STATION UNIT NO. 1

DAM FOUNDATION
FROM STA. 11+58 TO STA. 12+60
RIGHT OF CENTERLINE





NOTES:

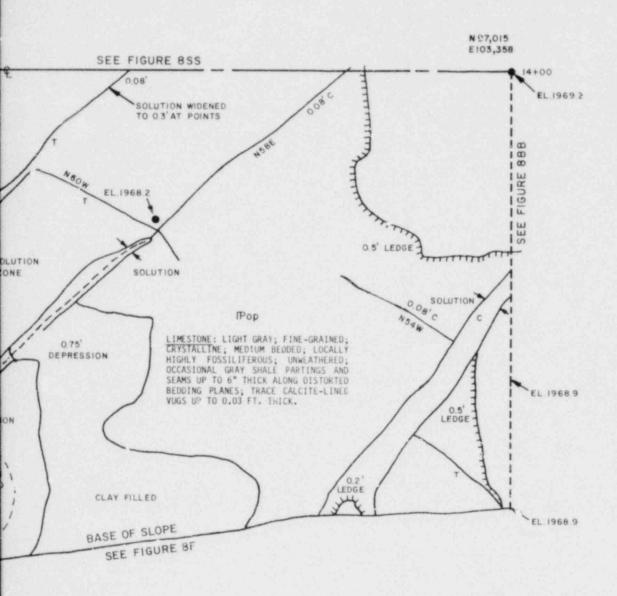
- 1. ELEVATIONS AND COORDINATES REFER TO SNUPPS DATUM.
- SURVEYORS STATIONS ARE LOCATED ALONG CENTERLINE AND SLUPES OF UHS DAM EXCAVATION.
- 3. SEE FIGURE 2 FOR AN EXPLANATION OF SYMBOLS USED IN MAPPING.
- 4. SEE FIGURE 8 FOR LOCATION.

DAM FOUNDATION
FROM STA. 12+60 TO STA. 13+00
RIGHT OF CENTERLINE

- 1. ELEVATIONS AND COORDINATES REFER TO SNUPPS DATUM.
- 2. SURVEYORS STATIONS ARE LOCATED ALONG CENTERLINE AND SLOPES OF UHS DAM
- EXCAVATION.

 3. SEE FIGURE 2 FOR AN EXPLANATION OF SYMBOLS USED IN MAPPING.

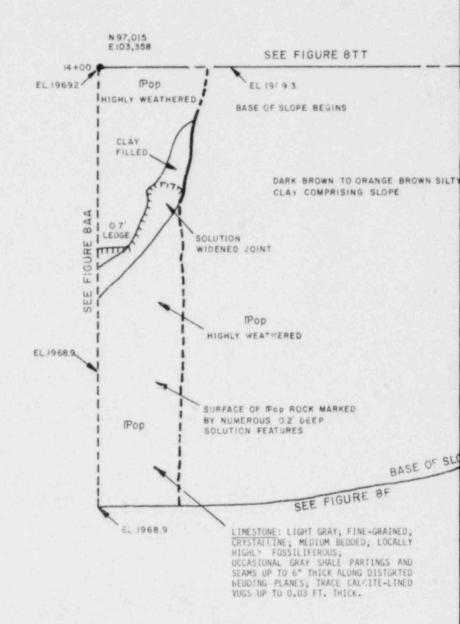
 4. SEE FIGURE 8 FOR LOCATION.



DAM FOUNDATION
FROM STA. 13+00 TO STA. 14+00
RIGHT OF CENTERLINE

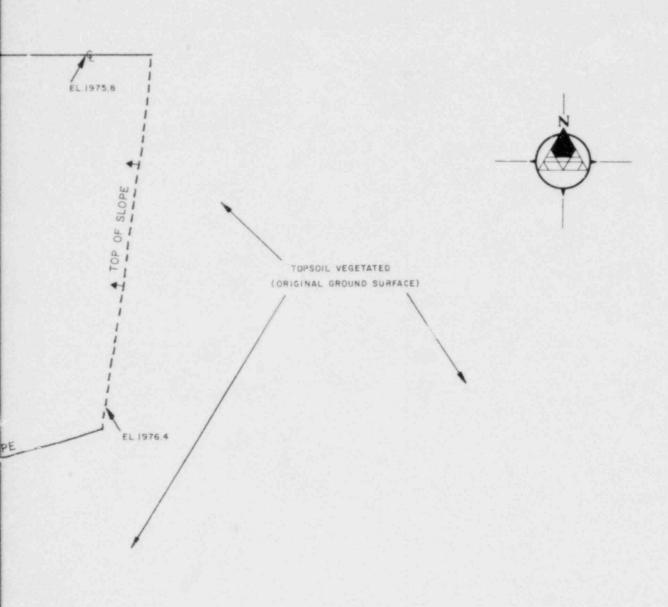
0 10

FEET



- 1. ELEVATIONS AND COORDINATES REFER TO SNUPPS DATUM.
- SURVEYORS STATIONS ARE LOCATED ALONG CENTERLINE AND SLUPES OF UHS DAM EXCAVATION.
- 3. SEE FIGURE 2 FOR AN EXPLANATION OF SYMBOLS USED IN MAPPING.
- 4. SEE FIGURE 8 FOR LOCATION.

10

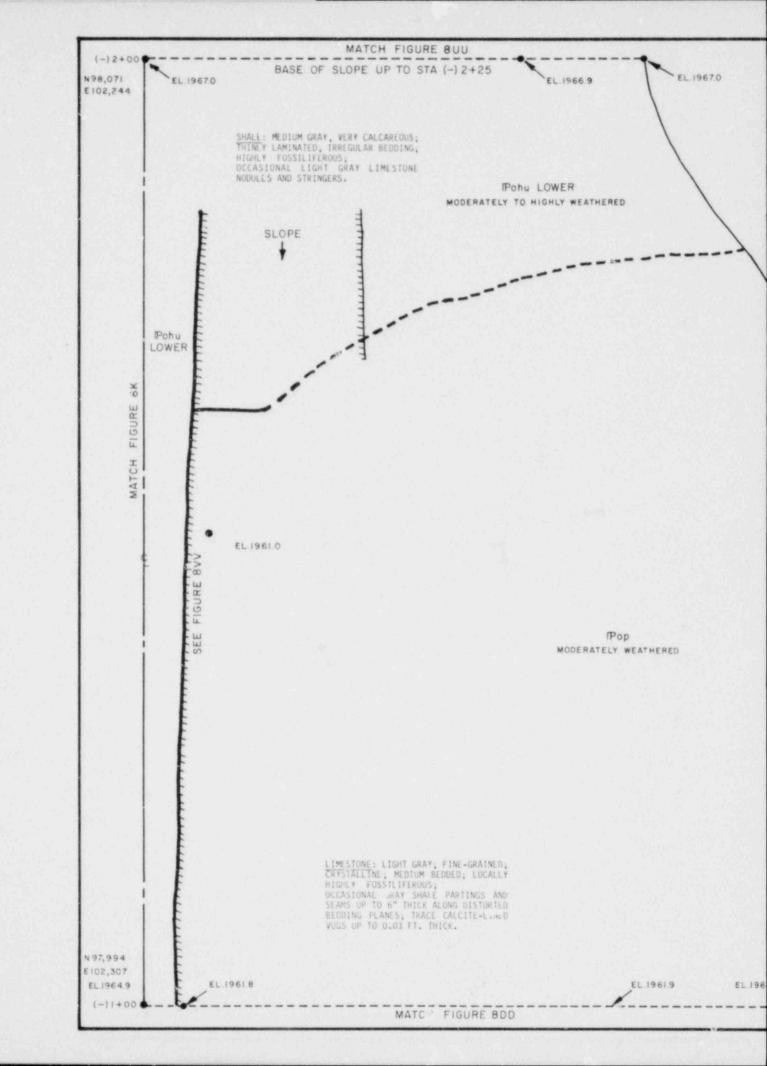


DAM FOUNDATION
FROM STA. 14+00 TO END
RIGHT OF CENTERLINE

0 10

FEET

BROOM SEEMAD





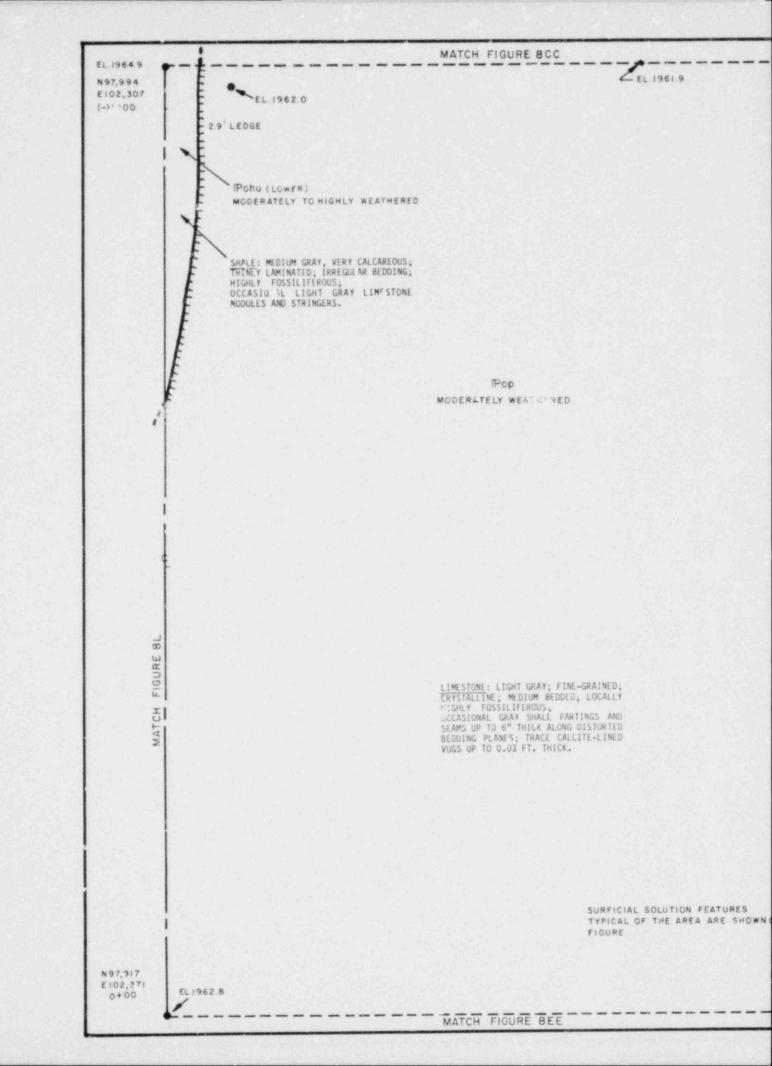
- ELEVATIONS AND COOPDINATES REFER TO SNUPPS DATUM.
- SURVEYORS STATIONS ARE LOCATED ALONG CENTERLINE AND SLOPES OF UHS D' EXCAVATION.
- 3. SEE FIGURE 2 FOR AN EXPLANATION OF SYMBOLS USED IN MAPPING.
- 4. SEE FIGURE 3 FOR LOCATION.



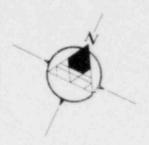
WOLF CREEK GENERATING STATION UNIT NO. 1

DAM FOUNDATION
FROM STA. (-) 2+00 TO STA. (-) 1+00
LEFT OF CENTERLINE

BROOM S SEMAG



MATCH FIGURE 86



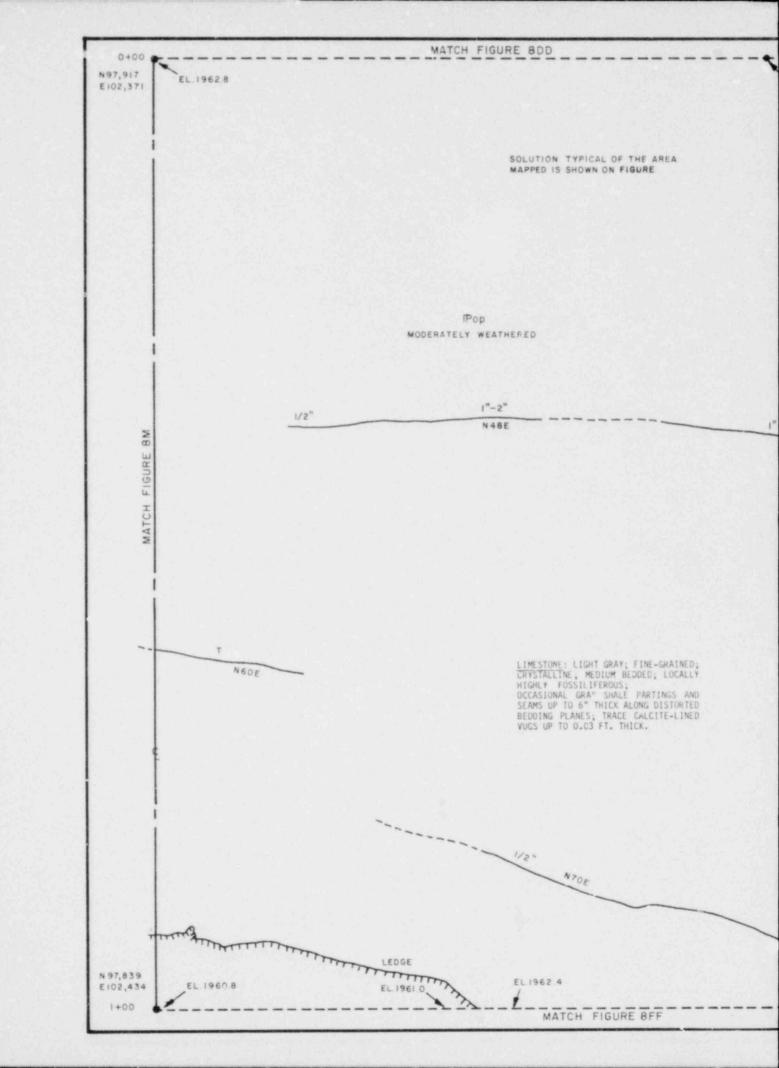
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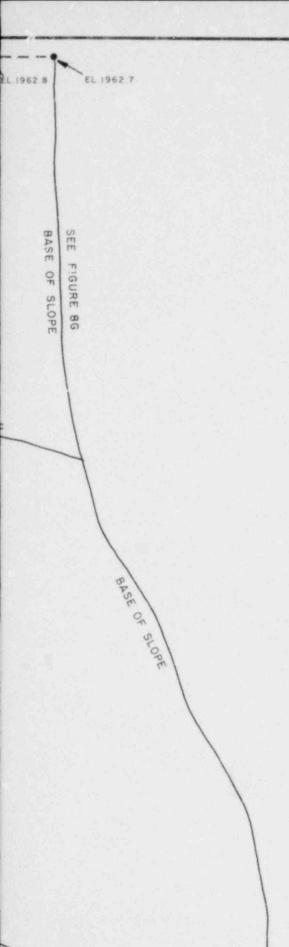
- 1. ELEVATIONS AND COORDINATES REFER TO SNUPPS DATUM.
- SURVEYORS STATIONS ARE LOCATED ALONG CENTERLINE AND SLUPES OF UHS DAM EXCAVATION.
- 3. SEE FIGURE 2 FOR AN EXPLANATION OF SYMBOLS USED IN MAPPING.
- 4. SEE FIGURE 8 FOR LOCATION.



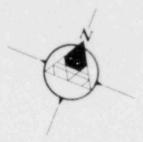
WOLF CREEK GENERATING STATION UNIT NO. 1

DAM FOUNDATION
FROM STA. (-) 1+00 TO STA. 0+00
LEFT OF CENTERLINE





EL 1962.6



NOTES:

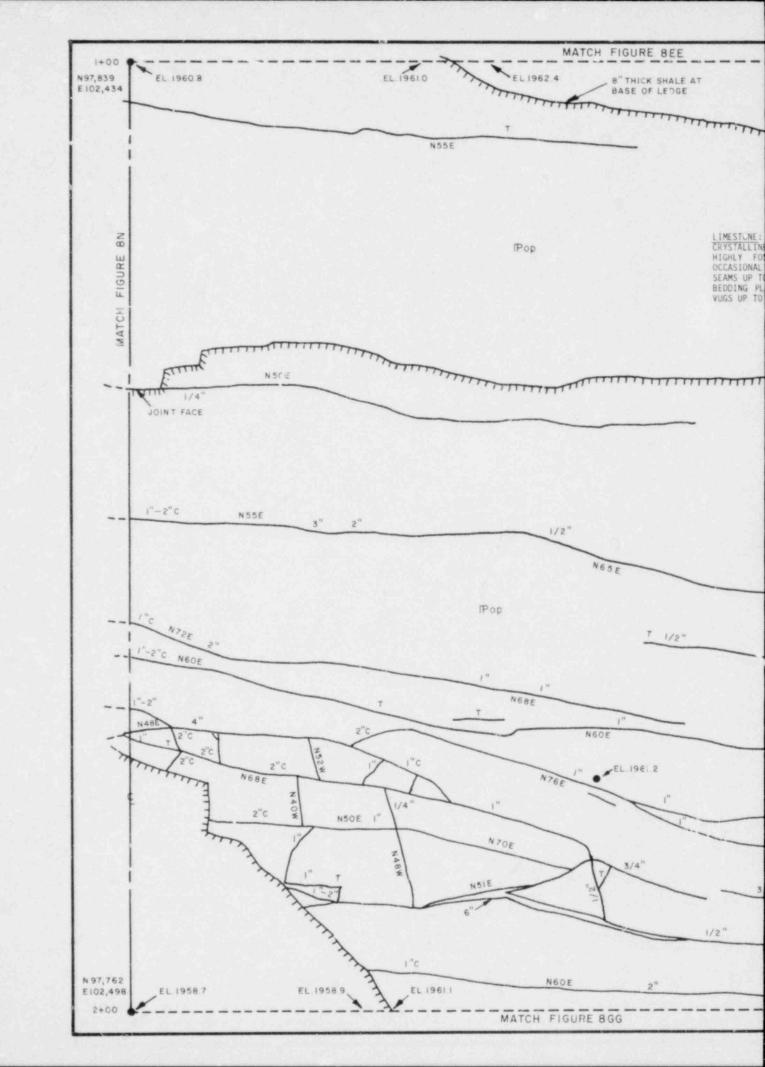
- ELEVATIONS AND COORDINATES REFER TO SNUPPS DATUM.
- SURVEYORS STATIONS ARE LOCATED ALONG CENTERLINE AND SLOPES OF UHS DAM EXCAVATION.
- EXCAVATION.

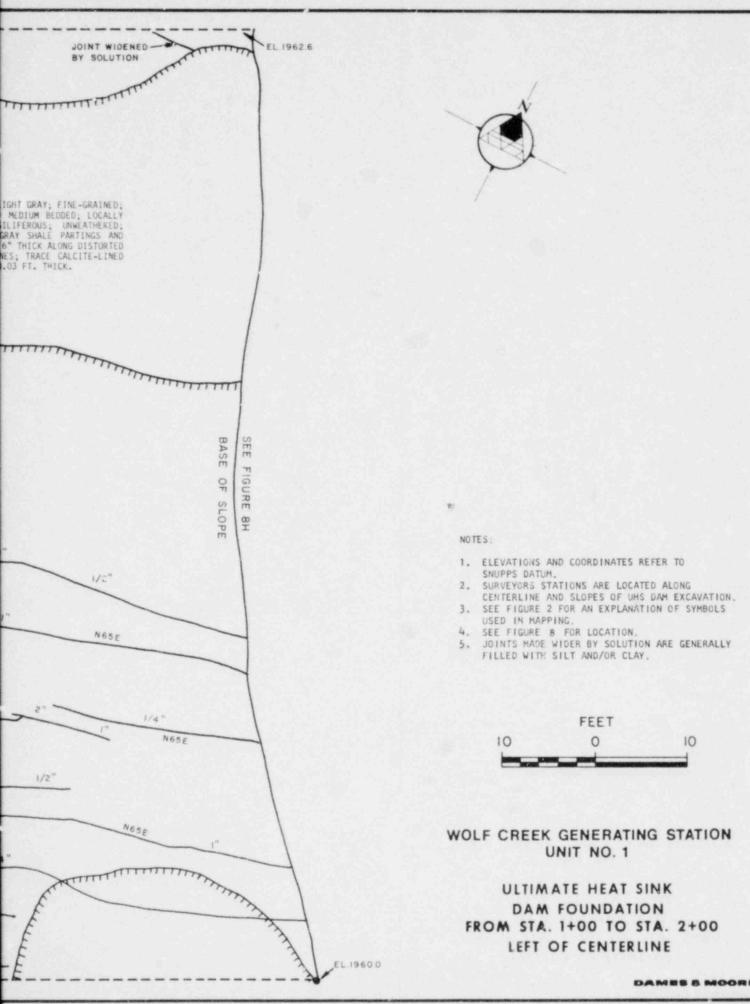
 3. SEL FIGURE 2 FOR AN EXPLANATION OF SYMBOLS USED IN MAPPING.
- 4. SEE FIGURE 8 FOR LOCATION.



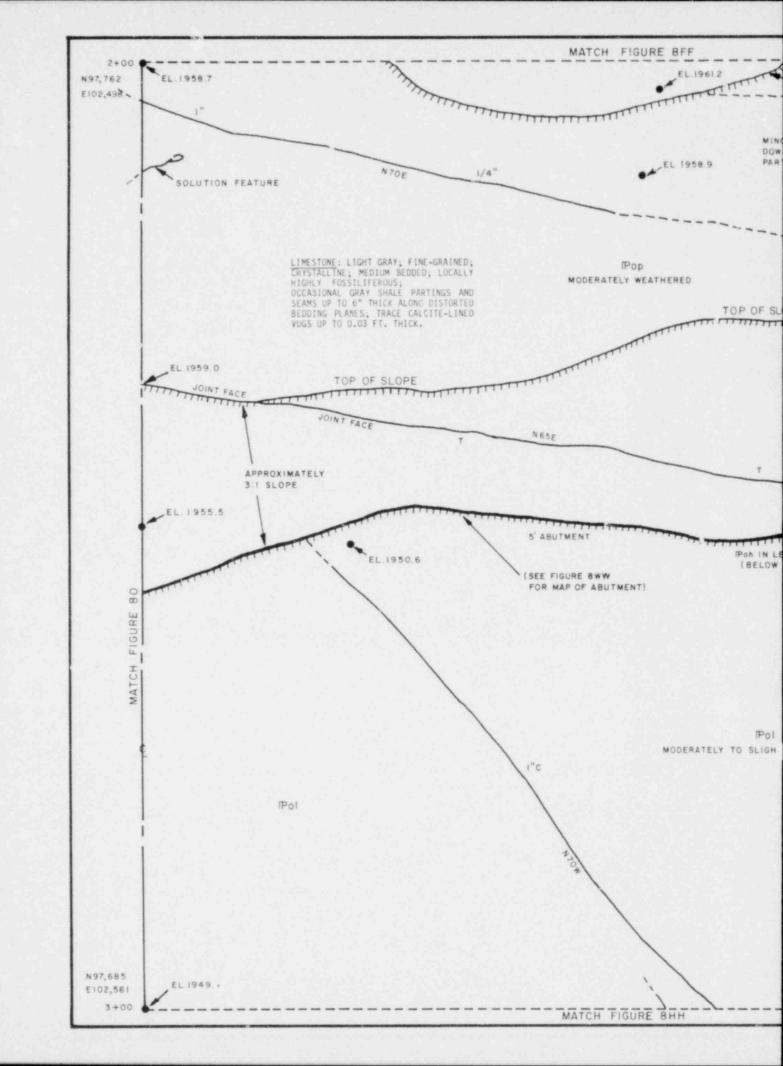
WOLF CREEK GENERATING STATION UNIT NO. 1

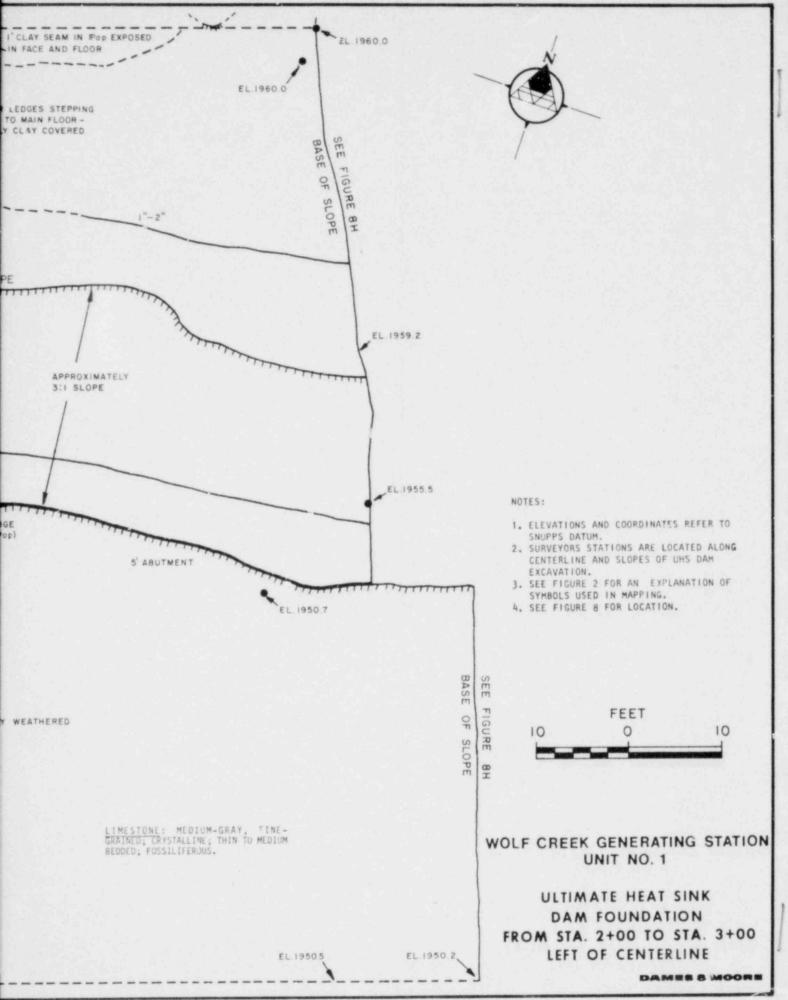
DAM FOUNDATION
FROM STA. 0+00 TO STA. 1+00
LEFT OF CENTERLINE

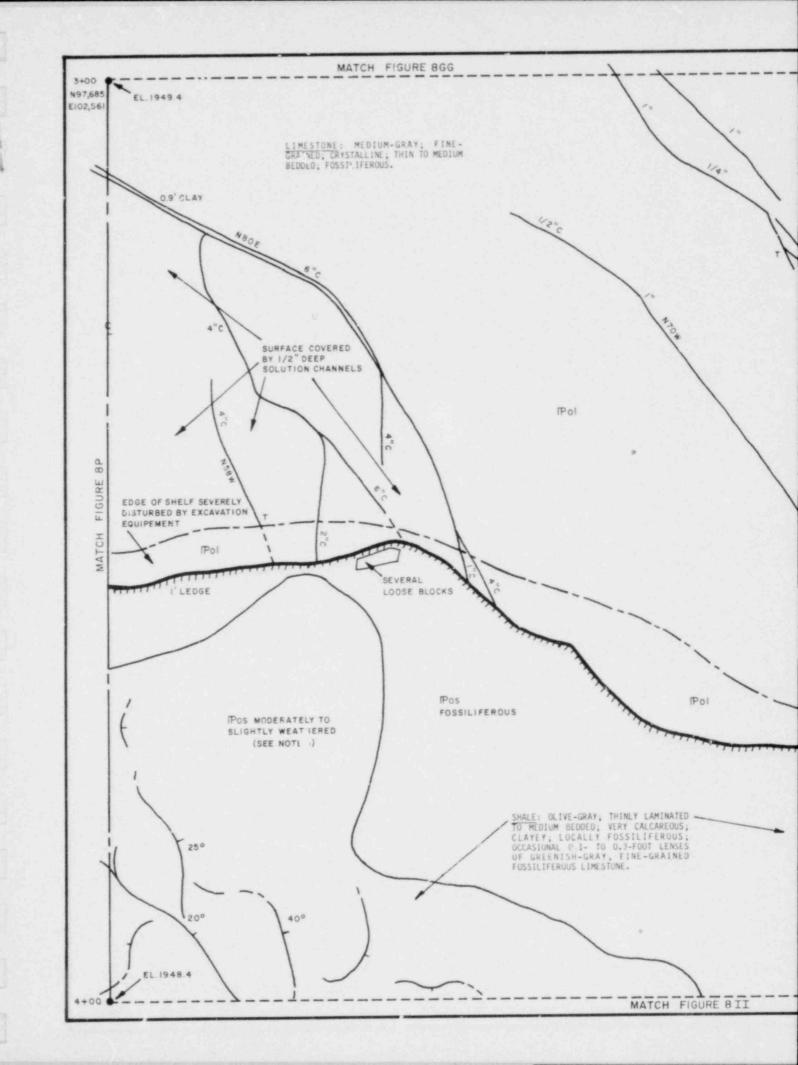


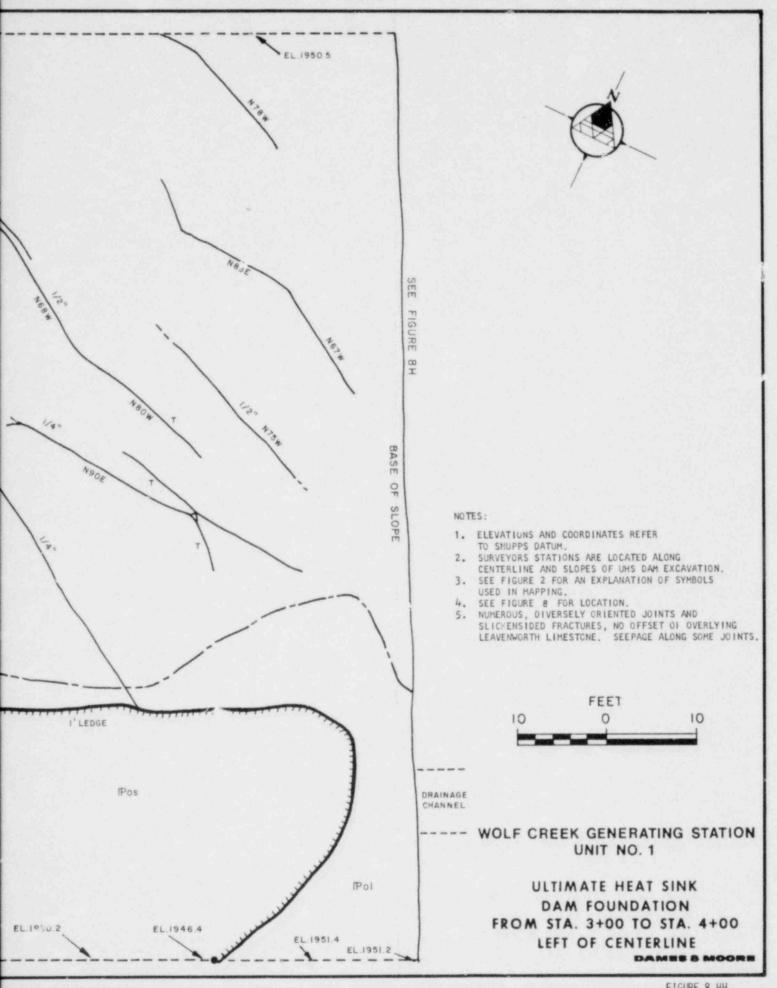


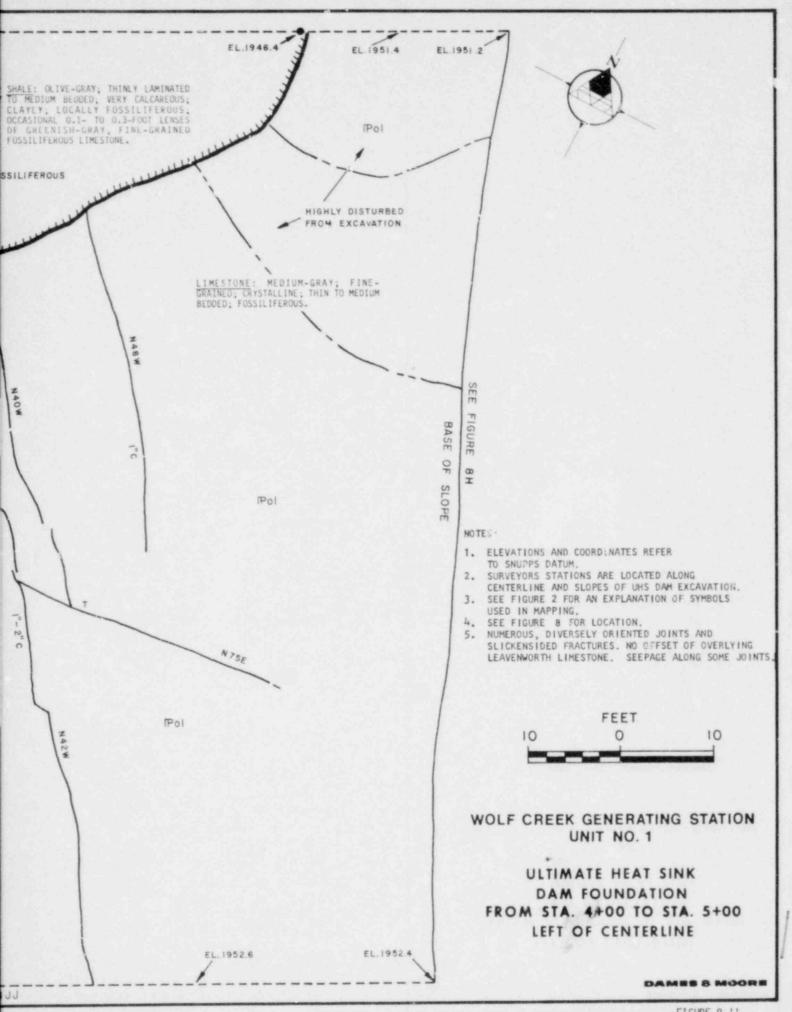
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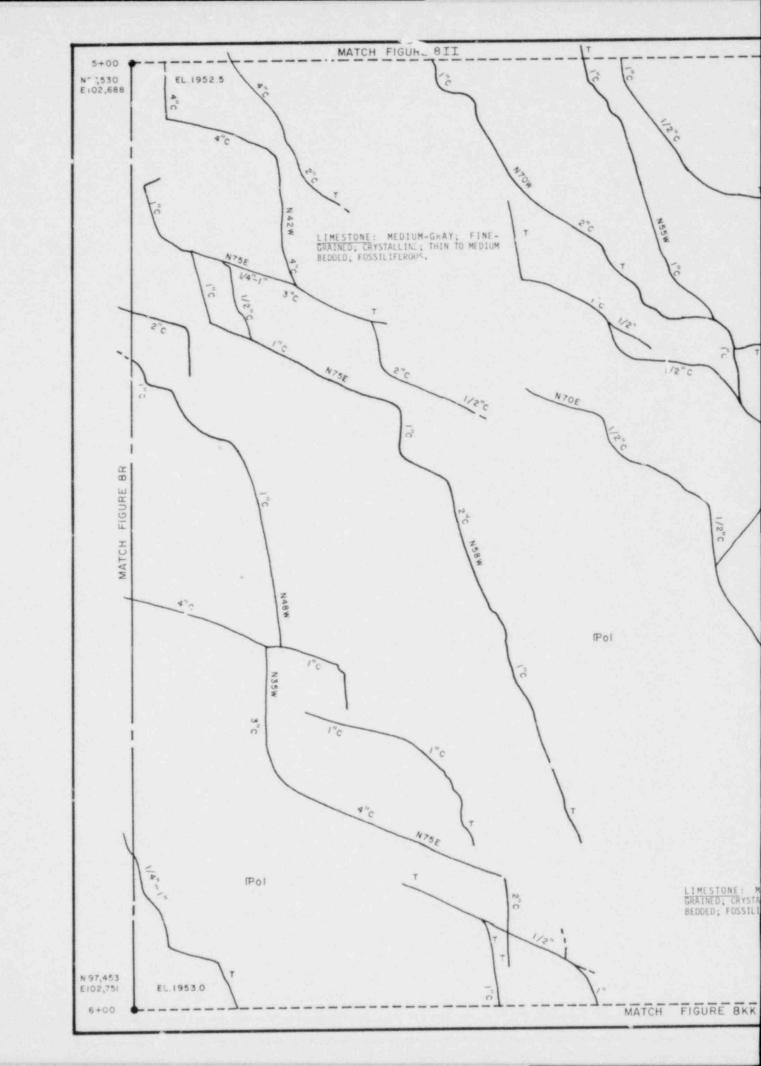


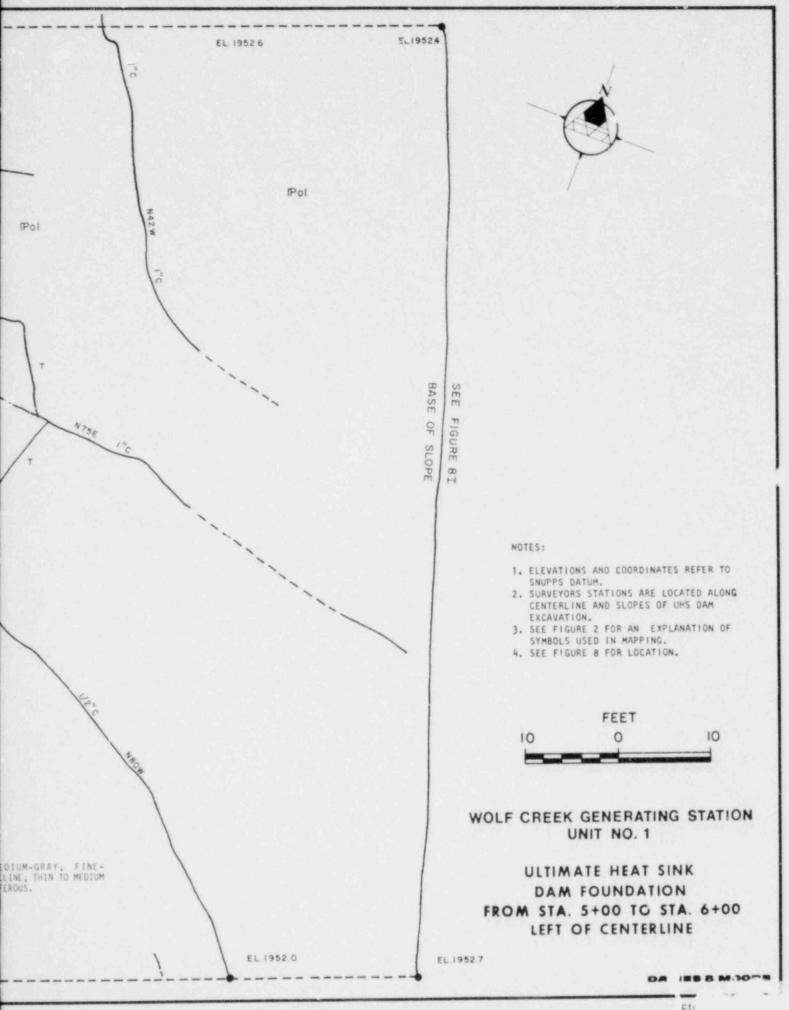


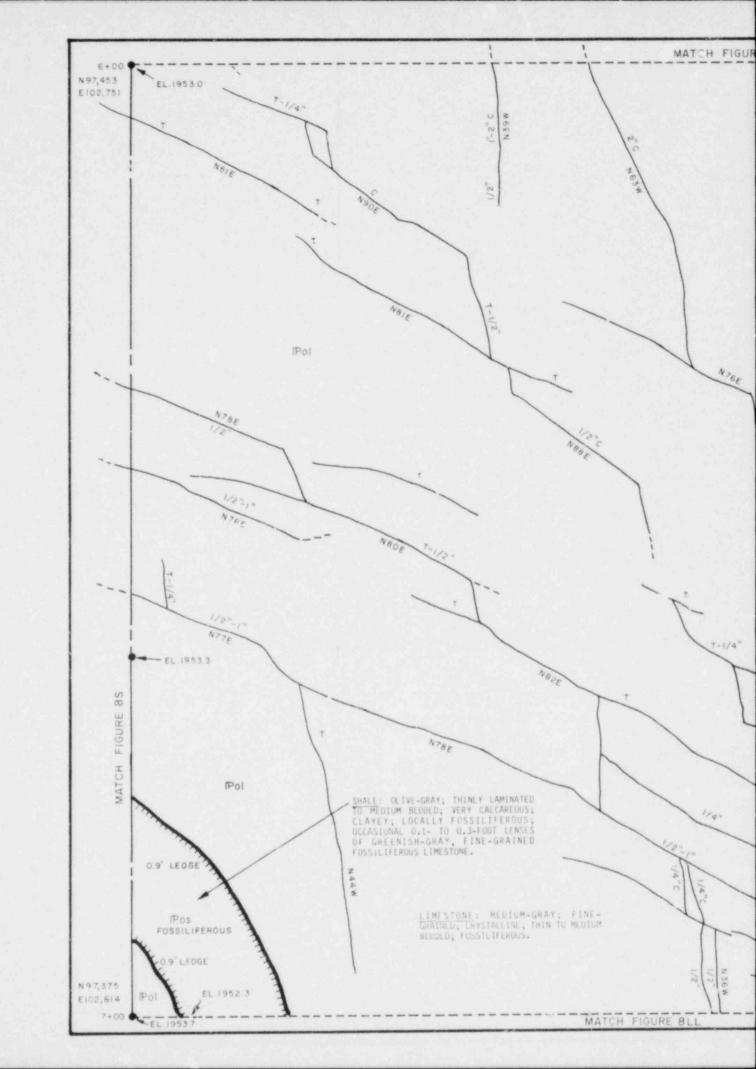


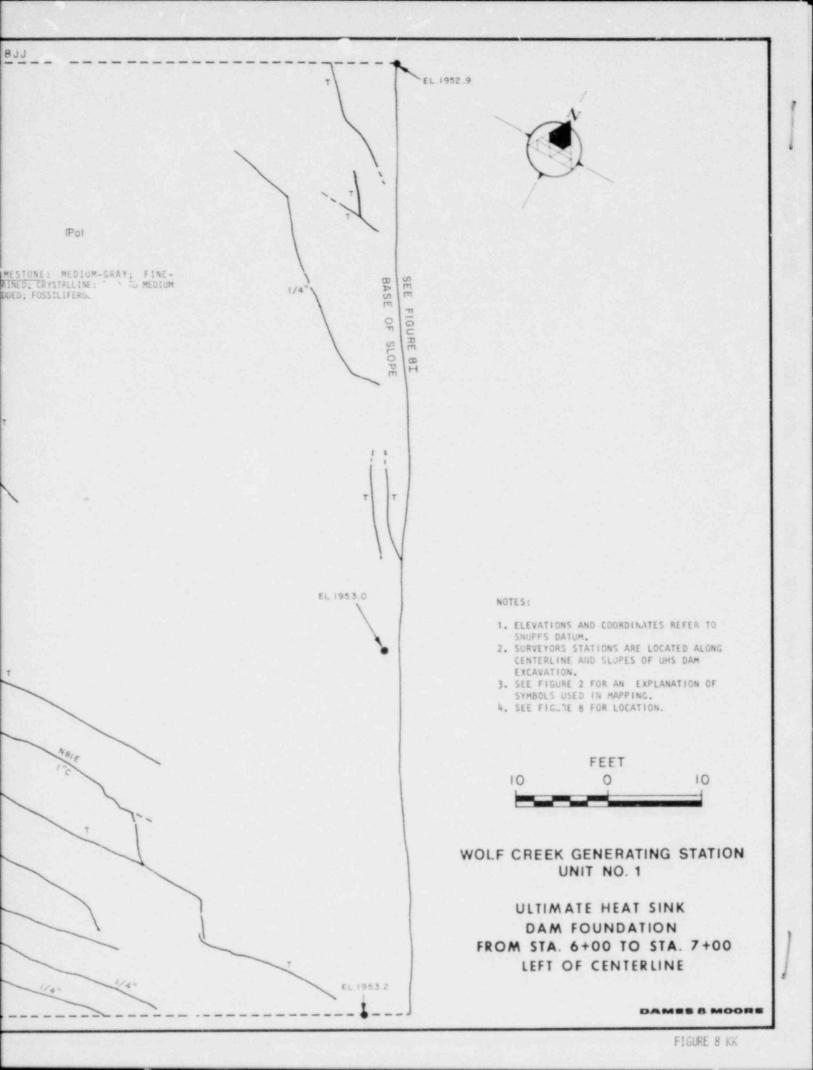


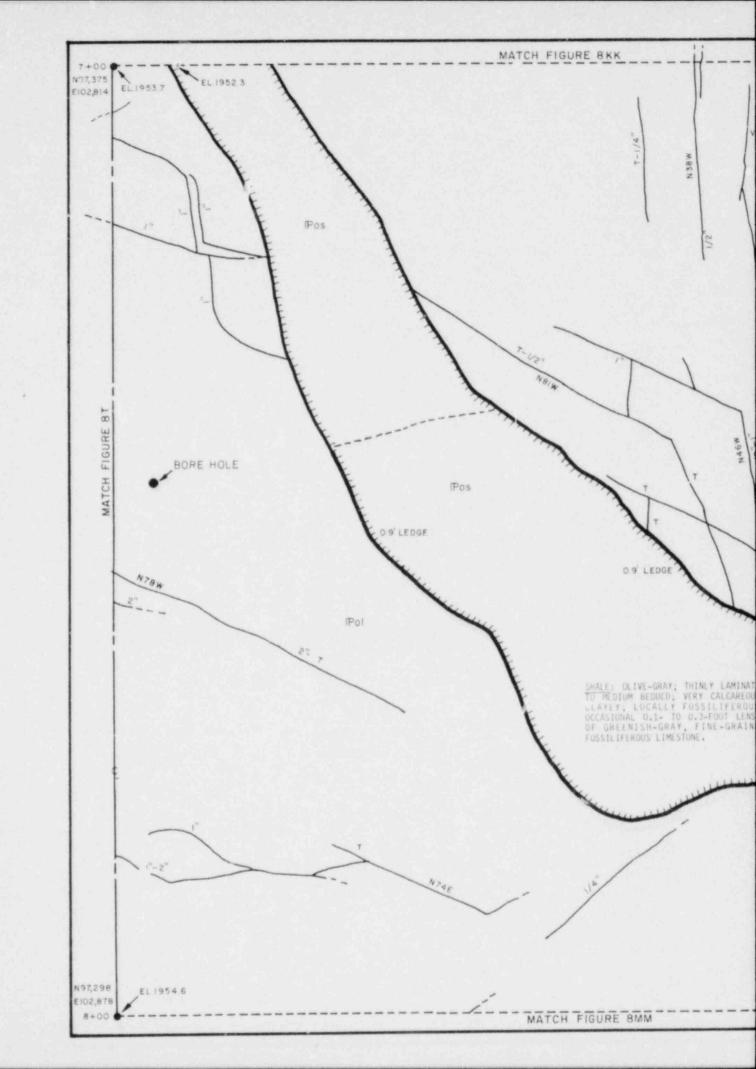


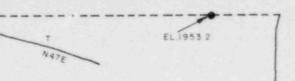












Pol

LIMESTONE: MEDIUM-GRAY, FINE-GRAINED, CRYSTALLINE, THEN TO MEDIUM BEDDED, FOSSILIFEROUS.

FIGURE

NOTES:

- 1. ELEVATIONS AND COORDINATES REFER TO SNUPPS DATUM.
- 2. SURVEYORS STATIONS ARE LOCATED ALONG CENTERLINE AND SLOPES OF UHS DAM EXCAVATION.
- 3. SEE FIGURE 2 FOR AN EXPLANATION OF SYMBOLS USED IN MAPPING. 4. SEE FIGURE 8 FOR LOCATION.

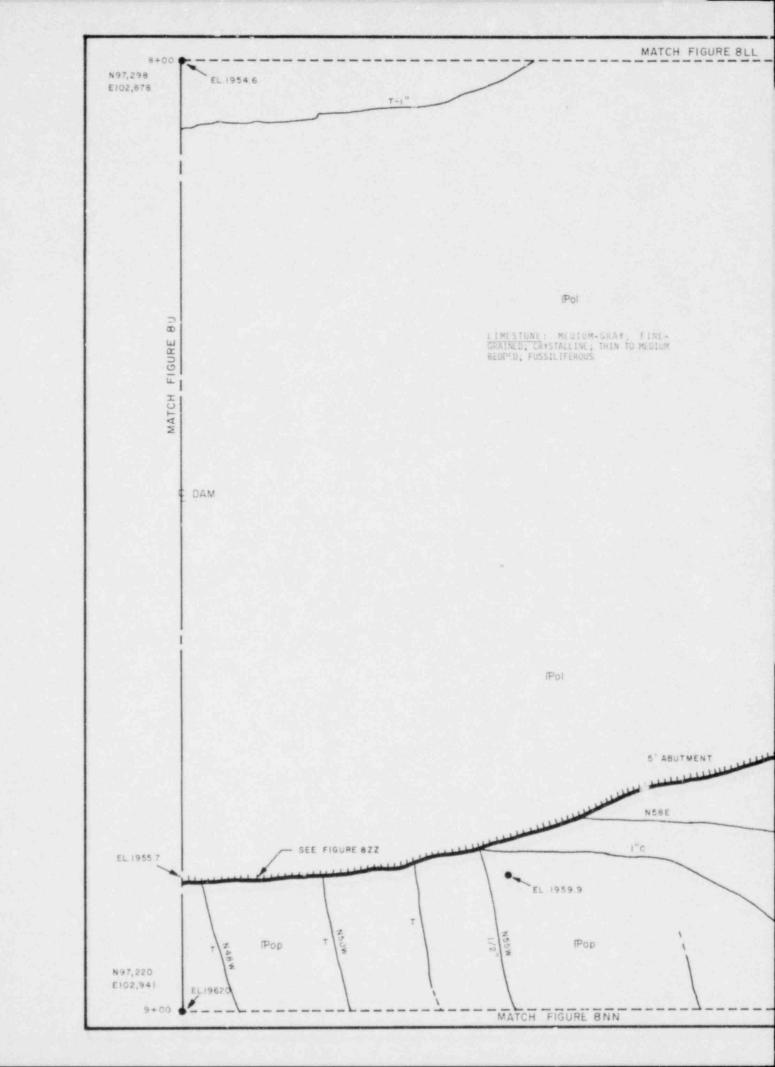


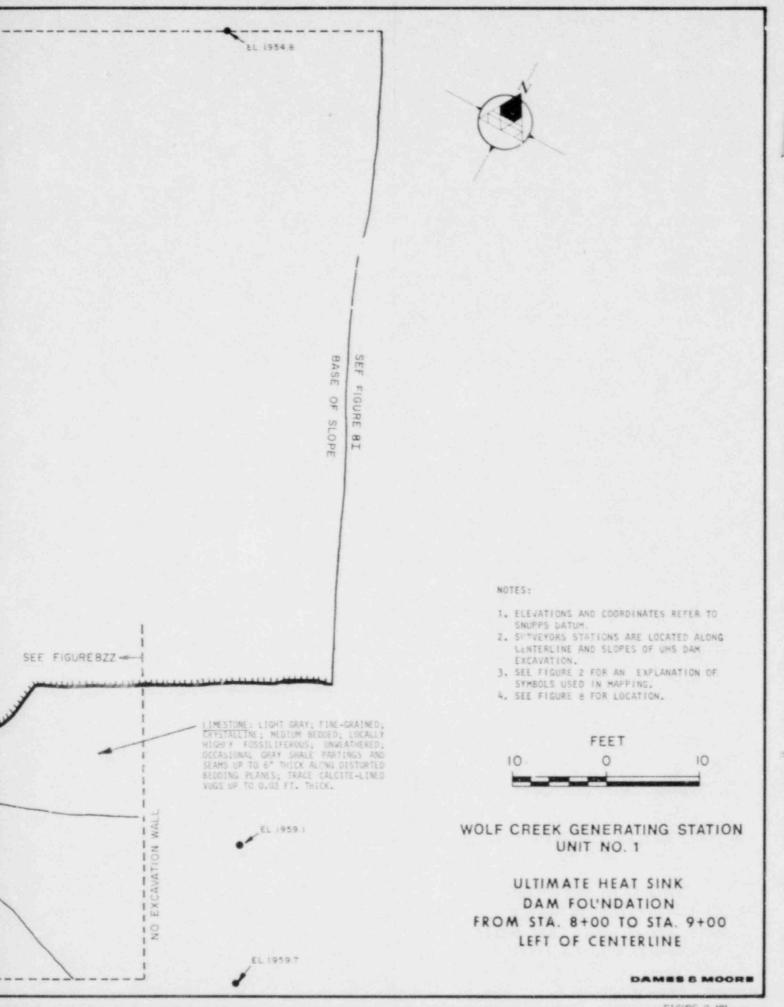
WOLF CREEK GENERATING STATION UNIT NO. 1

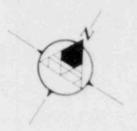
ULTIMATE HEAT SINK DAM FOUNDATION FROM STA. 7+00 TO STA. 8+00 LEFT OF CENTERLINE

DAMES B MOORE

Pol





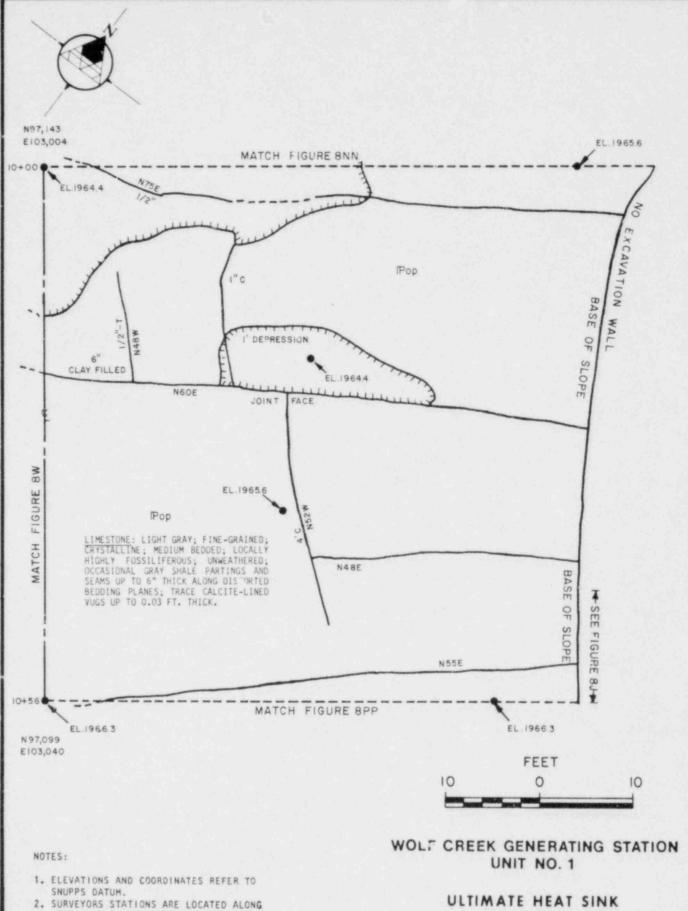


- 1. ELEVATIONS AND COORDINATES REFER TO SNUPPS DATUM.
- SURVEYORS STATIONS ARE LOCATED ALONG CENTERLINE AND SLOPES OF UHS DAM EXCAVATION.
- 3. SEE FIGURE 2 FOR AN EXPLANATION OF SYMBOLS USED IN MAPPING.
- 4. SEE FIGURE 8 FOR LOCATION.



WOLF CREEK GENERATING STATION UNIT NO. 1

DAM FOUNDATION
FROM STA. 9+00 TO STA. 10+00
LEFT OF CENTERLINE

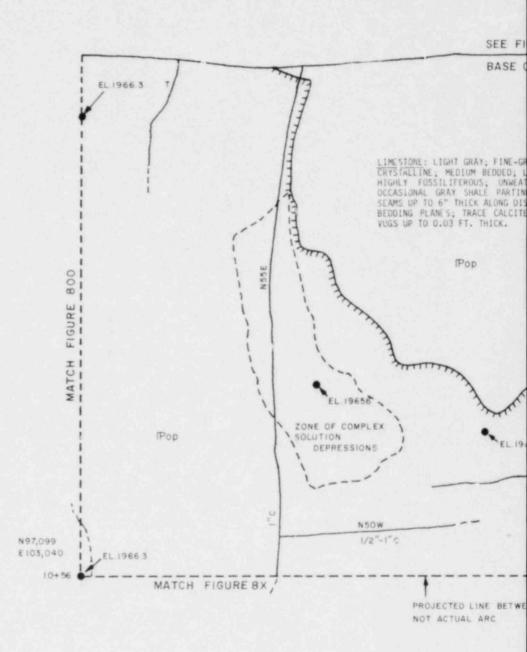


 SURVEYORS STATIONS ARE LOCATED ALONG CENTERLINE AND SLOPES OF UHS DAM EXCAVATION.

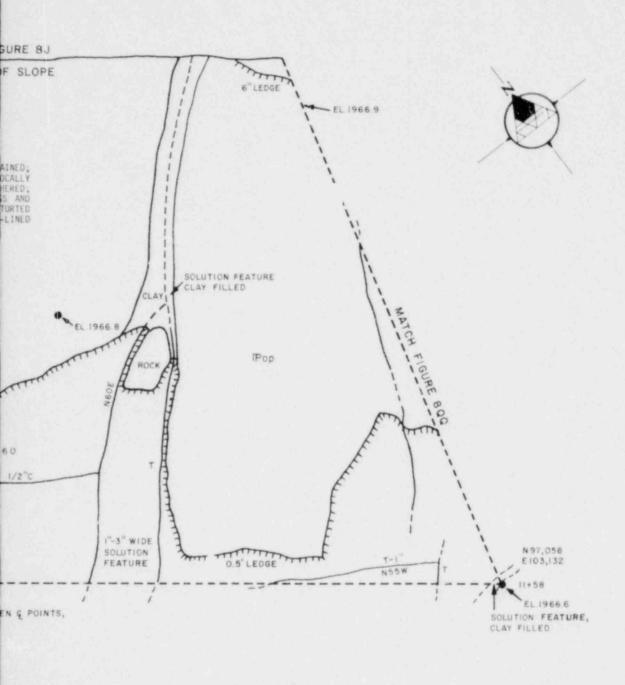
SEE FIGURE 2 FOR AN EXPLANATION OF SYMBOLS USED IN MAPPING.

4. SEE FIGURE 8 FOR LOCATION.

DAM FOUNDATION
FROM STA. 10+00 TO STA. 10+56
LEFT OF CENTERLINE



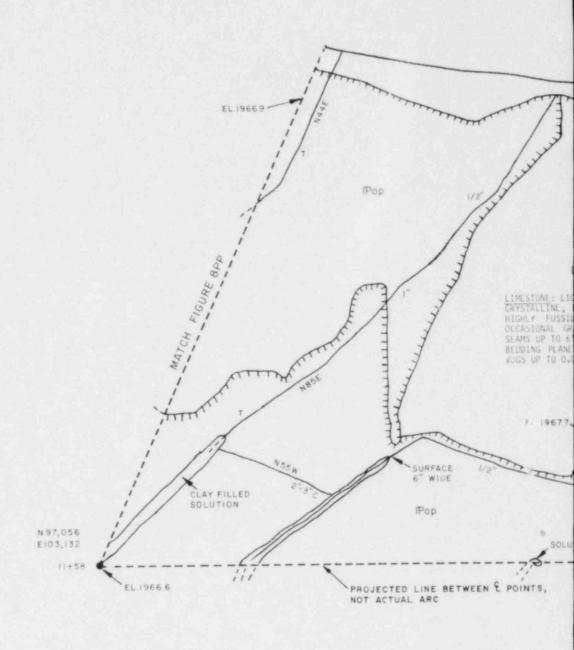
- 1. ELEVATIONS AND COORDINATES REFER TO SNUPPS DATUM.
- SURVEYORS STATIONS ARE LOCATED ALONG CENTERLINE AND SLOPES OF UHS DAM EXCAVATION. SEE FIGURE 2 FOR AN EXPLANATION OF SYMBOLS
- USED IN MAPPING.
- 4. SEE FIGURE 8 FOR LOCATION.
 5. MOST PROMINENT SOLUTION FEATURES ARE MAPPED.
 SURFACE CONTAINS NUMEROUS SMALLER FEATURES.



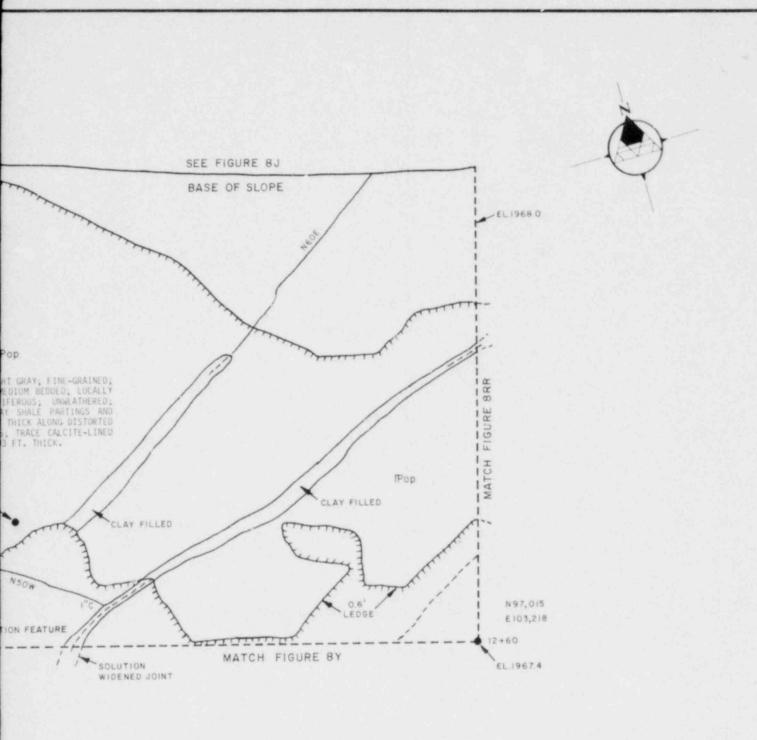
FEET

WOLF CREEK GENERATING STATION UNIT NO. 1

DAM FOUNDATION
FROM STA. 10+56 TO STA. 11+58
LEFT OF CENTERLINE



- ELEVATIONS AND COORDINATES REFER TO SNUPPS DATUM.
- SURVEYORS STATIONS ARE LOCATED ALONG
- CENTERLINE AND SLOPES OF UHS DAM EXCAVATION. SEE FIGURE 2 FOR AN EXPLANATION OF SYMBOLS USED IN MAPPING.
- SEE FIGURE 8 FOR LOCATION.
 MOST PROMINENT SOLUTION FEATURES ARE MAPPED. SURFACE CONTAINS NUMEROUS SMALLER FEATURES,

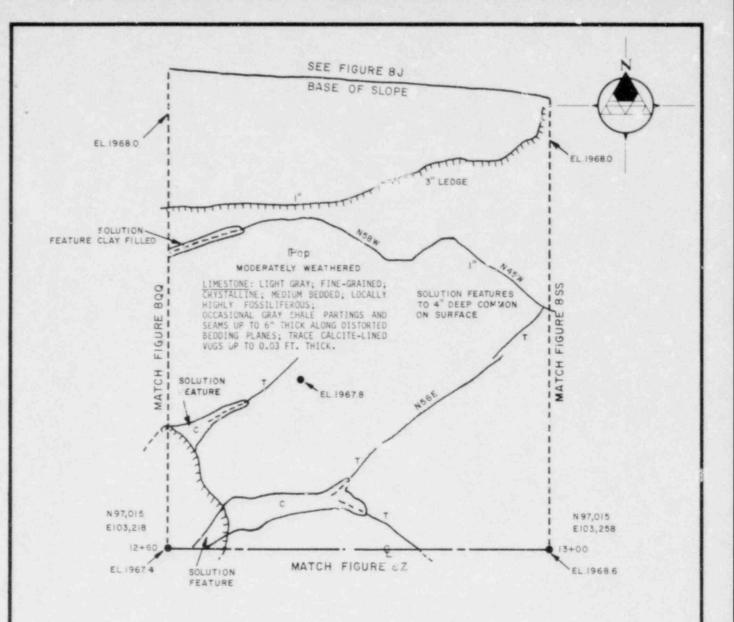


WOLF CREEK GENERATING STATION UNIT NO. 1

DAM FOUNDATION
FROM STA. 11+58 TO STA. 12+60
LEFT OF CENTERLINE

DAMES B MOORE

FEET

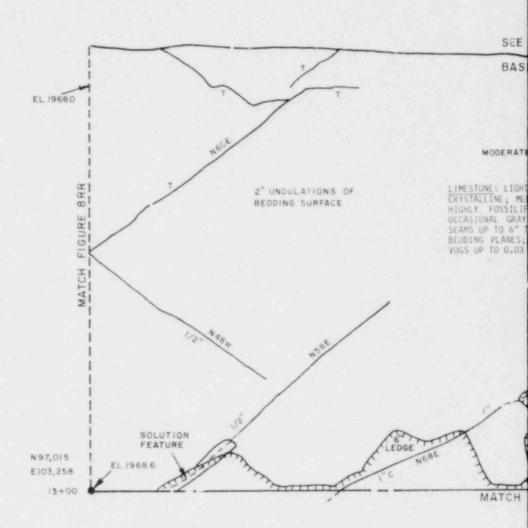




- ELEVATIONS AND COORDINATES REFER TO SNUPPS DATUM.
- SURVEYORS STATIONS ARE LOCATED ALONG CENTERLINE AND SLOPES OF UHS DAM EXCAVATION.
- SEE FIGURE 2 FOR AN EXPLANATION OF SYMBOLS USED IN MAPPING.
- 4. SEE FIGURE 8 FOR LOCATION.

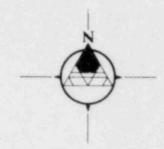
WOLF CREEK GENERATING STATION UNIT NO. 1

DAM FOUNDATION
FROM STA. 12+60 TO STA. 13+00
LEFT OF CENTERLINE



- 1. ELEVATIONS AND COORDINATES REFER TO SNUPPS DATUM.
- 2. SURVEYORS STATIONS ARE LOCATED ALONG
 CENTERLINE AND LOPES OF UHS DAM
 EXCAVATION
- EXCAVATION.

 3. SEE FIGURE 2 FOR AN EXPLANATION OF SYMBOLS USED IN MAPPING.
- 4. SEE FIGURE 8 FOR LOCATION.



EL 1969.0

EL 1969.1

FIGURE 8J

LY WEATHERED

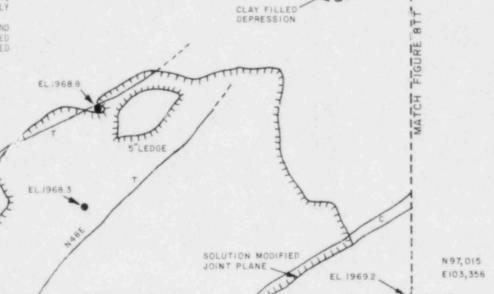
Pop

OF SLOPE

GRAY; FINE-GRAINED; IUM BEDDED, LOCALLY

FROUS; ENCALEY SHALE PARTINGS AND HICK ALONG DISTORTED TRACE CALCITE-LINED FT. THICK.

FIGURE 8AA

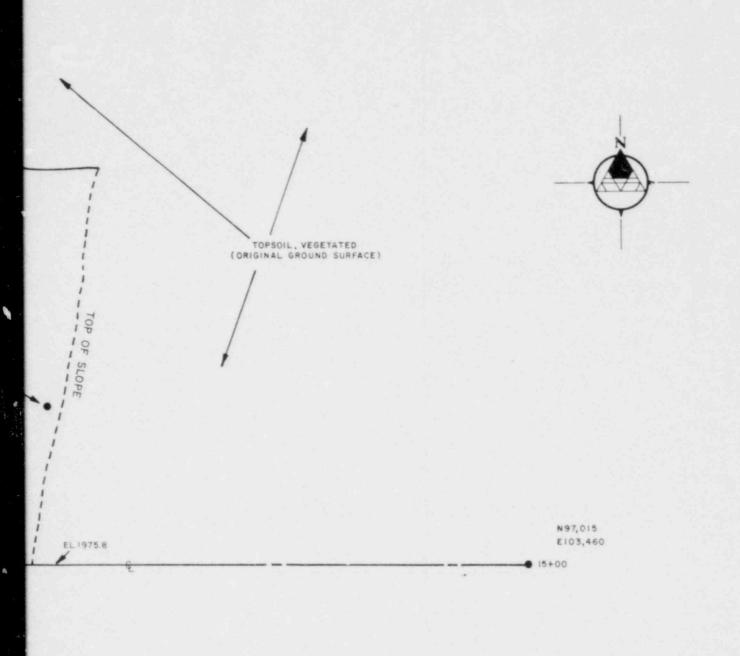


WOLF CREEK GENERATING STATION UNIT NO. 1

ULTIMATE HEAT SINK DAM FOUNDATION FROM STA. 13+00 TO STA. 14+00 LEFT OF CENTERLINE

LIMESTONE: LIGHT GRAY; FINE-GRAINED; CRYSTALLINE; MEDIUM BEDDED; LOCALLY HIGHLY FUSSIL EROUS; OCCASIONAL GRAY SHALE PARTINGS AND SEAMS UP TO 6" HICK ALONG DISTORTED BEDDING PLANES; TRACE CALCITE-LINED VUGS UP TO 0.03 FT. THICK. EL.1969.0 SEE FIGURE 8J BASE OF SLOPE -EL 1969.1 CLAY FILLED STUTION FEATURE MODERATELY WEATHERED DARK BROWN TO ORANGE BROWN SILTY CLAY 888 FIGURE SLOPE MATCH EL 1973 3. ~ 23° SLOPE NEOW SOLUTION WIDENED CLAY FILLED JOINT (AT SURFACE) N97,015 E103,358 EL 1969.3 EL 1969.2 14+00 MATCH FIGURE 888

- ELEVATIONS AND COORDINATES REFER TO SNUPPS DATUM.
- SURVEYORS STATIONS ARE LOCATED ALONG CENTERLINE AND SLOPES OF UHS DAM EXCAVATION.
- 3. SEE FIGURE 2 FOR AN EXPLANATION OF SYMBOLS
- USED IN MAPPING. 4. SEE FIGURE 8 FOR LOCATION.
- POP EXCAVATION SURFACE CONTAINS NUMEROUS SOLUTION FEATURES UP TO 0.2' IN DEPTH.

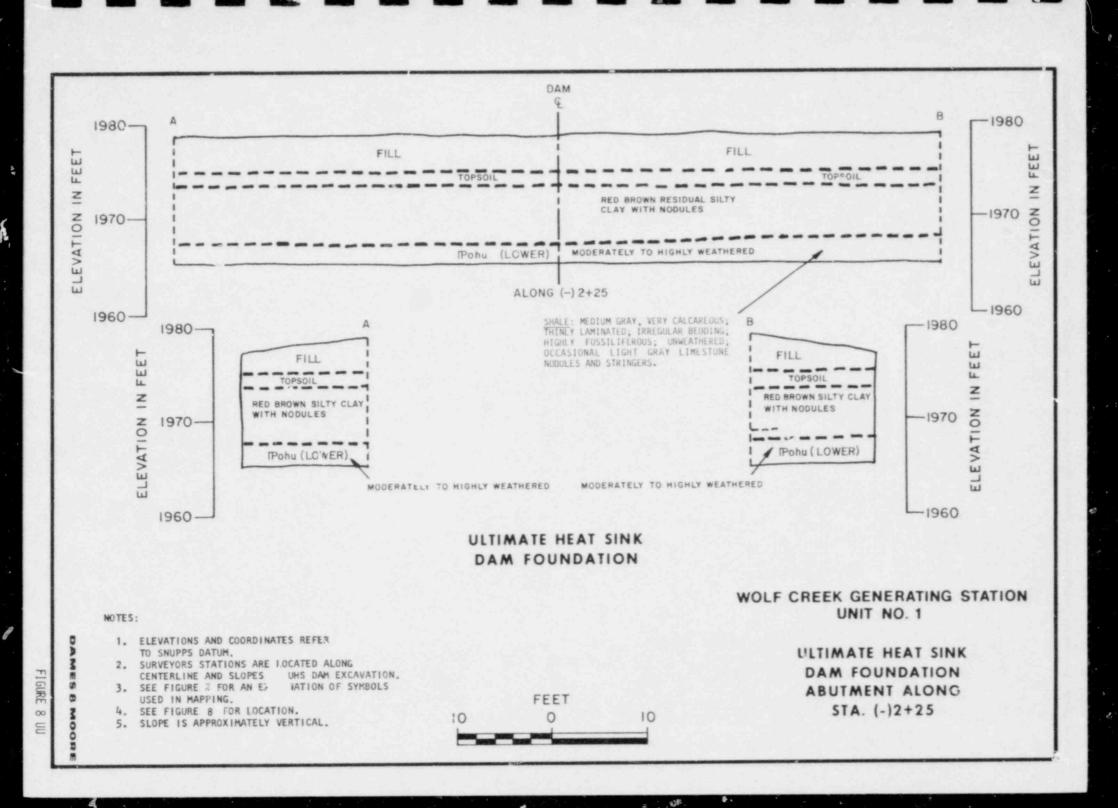


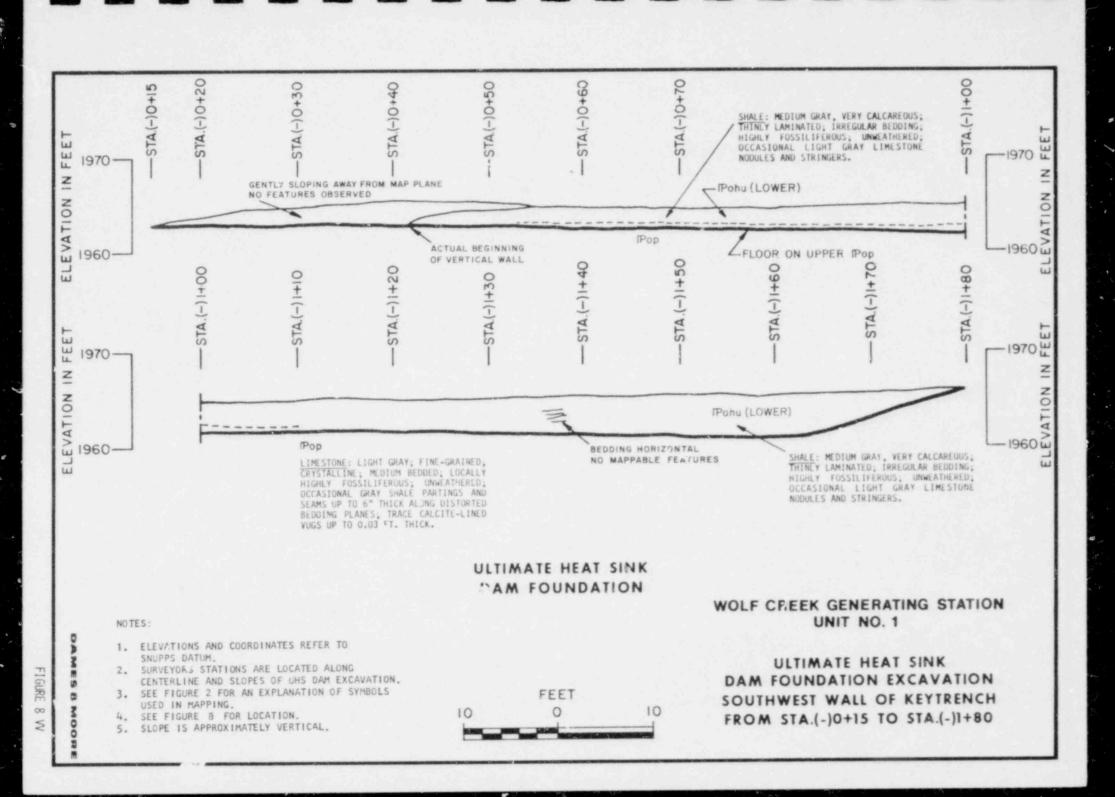
FEET

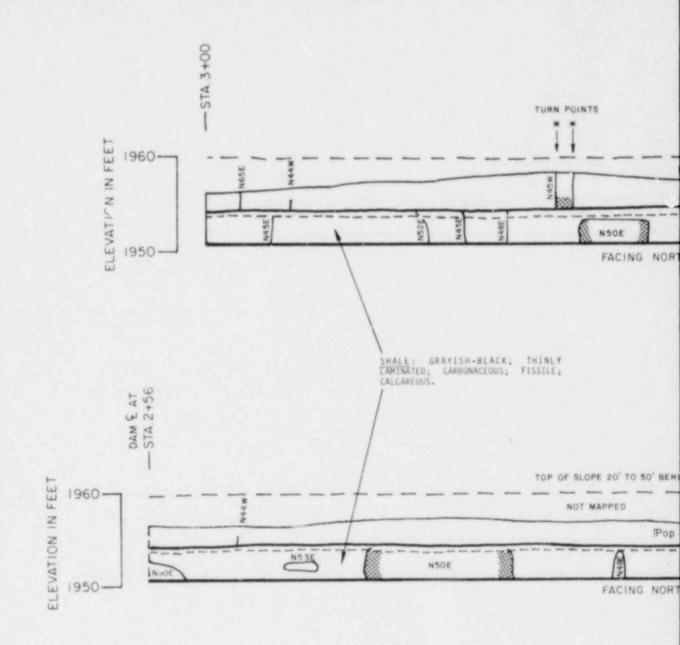
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WOLF CREEK GENERATING STATION UNIT NO. 1

DAM FOUNDATION
FROM STA. 14+00 TO END
LEFT OF CENTERLINE

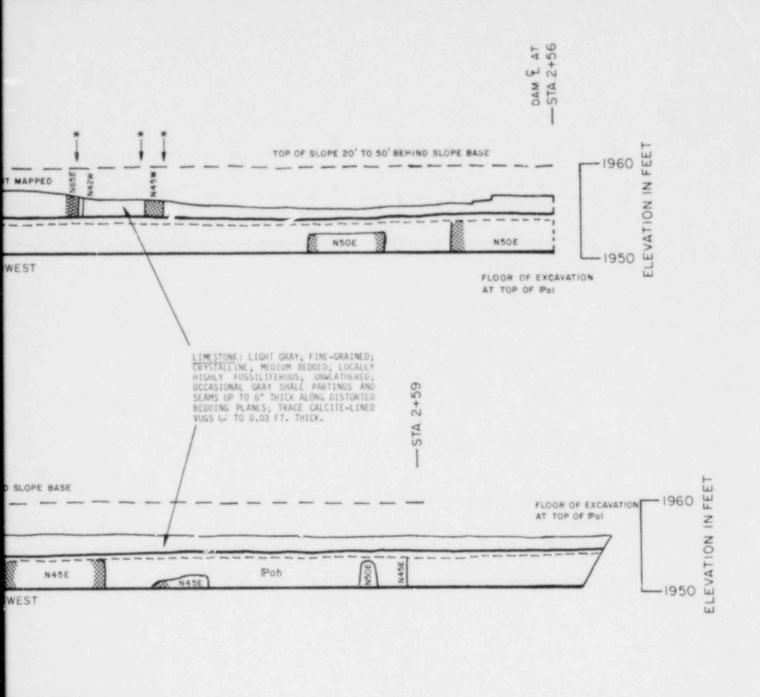






ULTIMATE DAM FOL

- 1. ELEVATIONS AND COORDINATES REFER TO SNUPPS DATUM.
- 2. SURVEYORS STATIONS ARE LOCATED ALONG
 CENTERLINE AND SLOPES OF UHS DAM EXCAVATION.
 3. SEE FIGURE 2 FOR AN EXPLANATION OF SYMBOL3
- USED IN MAPPING.
 4. SEE FIGURE 8 FOR LOCATION.
 5. SLOPE IS APPROXIMATELY VERTICAL.



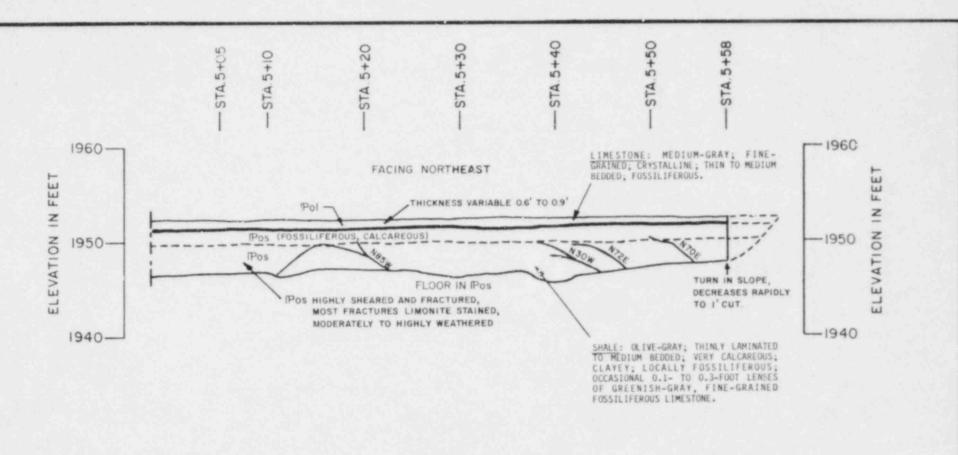
HEAT SINK

10

WOLF CREEK GENERATING STATION UNIT NO. 1

DAM FOUNDATION
ABUTMENT AT APPROXIMATELY
STA. 2+56

DAMES 8 MOOR



DAM FOUNDATION

NOTES:

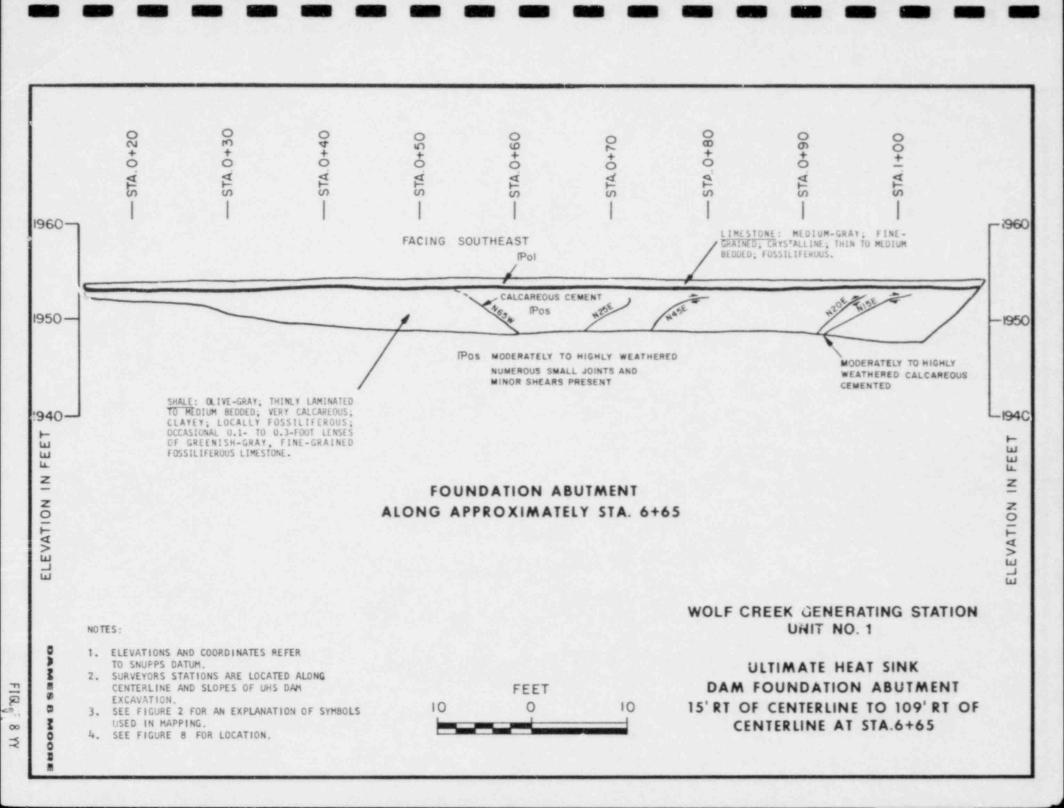
- ELEVATIONS AND COORDINATES REFER TO SNUPPS DATUM.
- SURVEYORS STATIONS ARE LOCATED ALONG CENTERLINE AND SLOPES OF UHS DAM EXCAVATION.
- 3. SEE FIGURE 2 FOR AN EXPLANATION OF SYMBOLS USED IN MAPPING.
- 4. SEE FIGURE 8 FOR LOCATION.
- 5. SLOPE IS APPROXIMATELY VERTICAL.

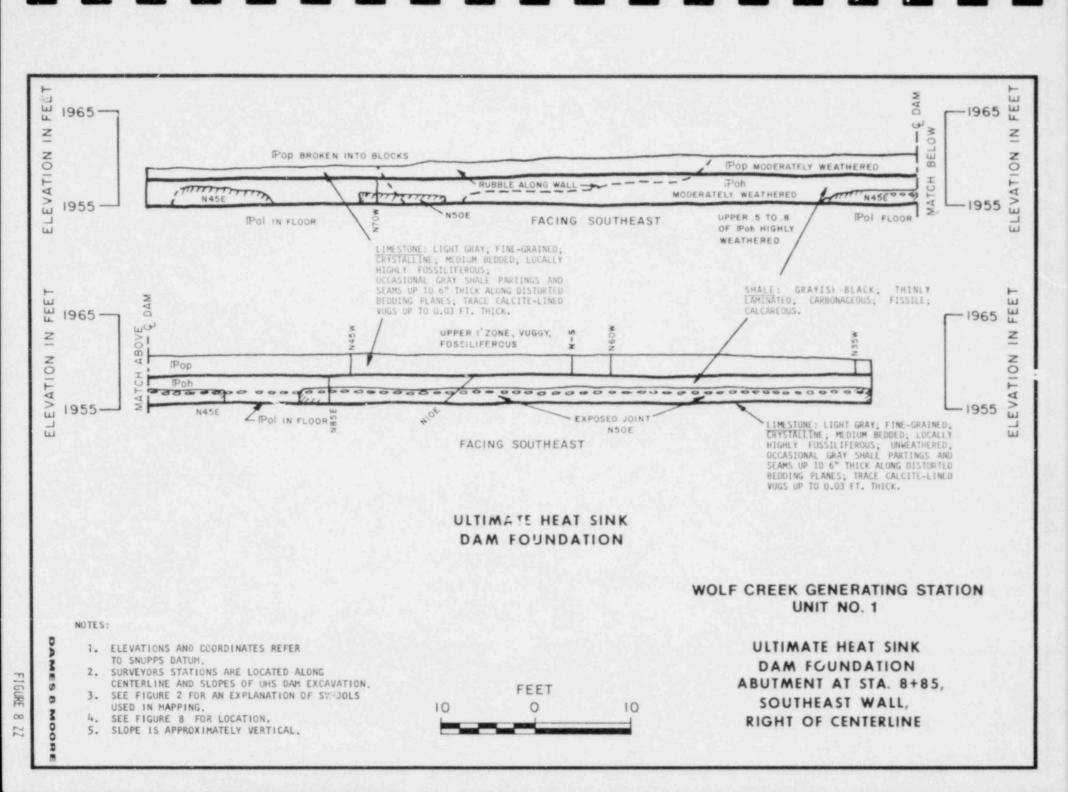
FEET IO IO

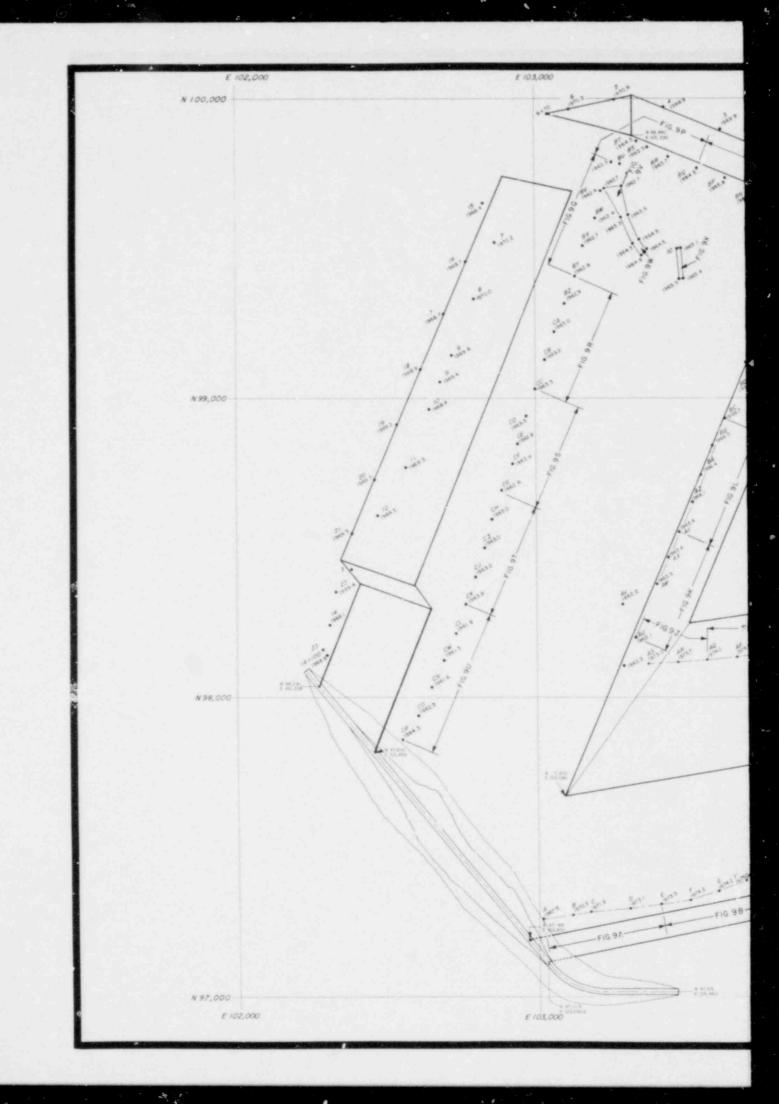
WOLF CREEK GENERATING STATION UNIT NO. 1

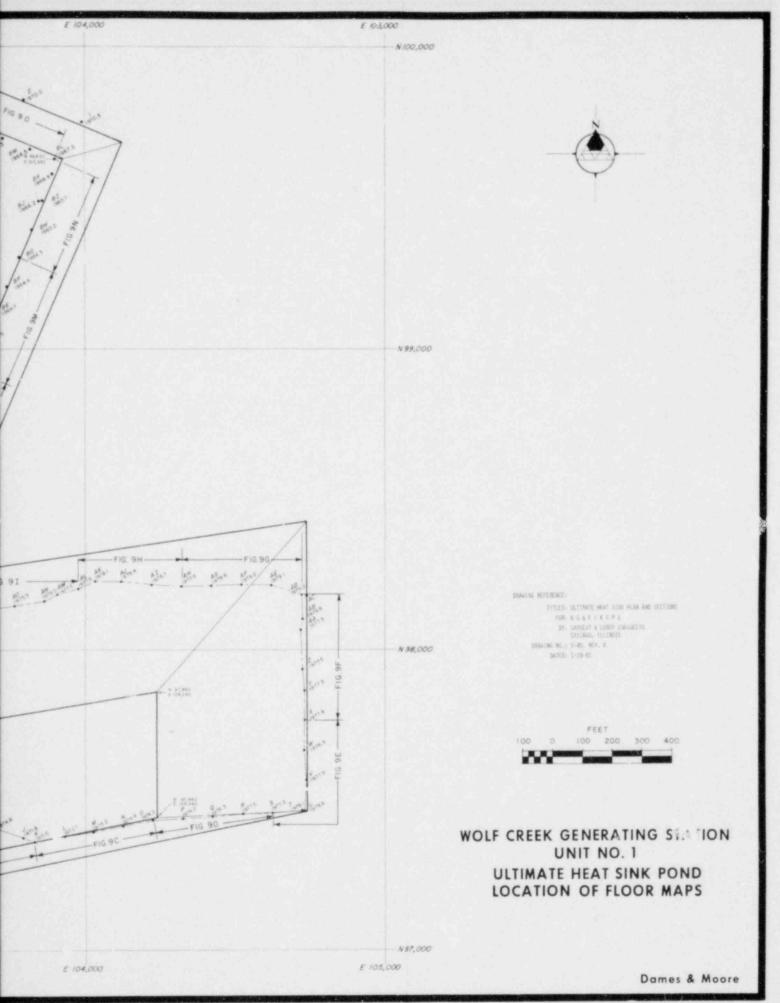
DAM FOUNDATION ABUTMENT STA. 4+98 TO STA. 5+58 65' RIGHT OF CENTERLINE

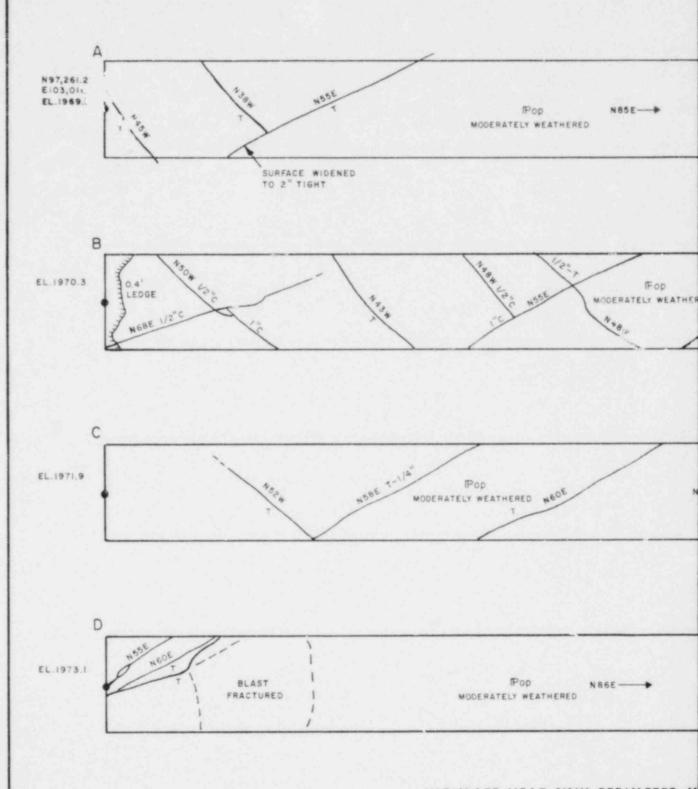
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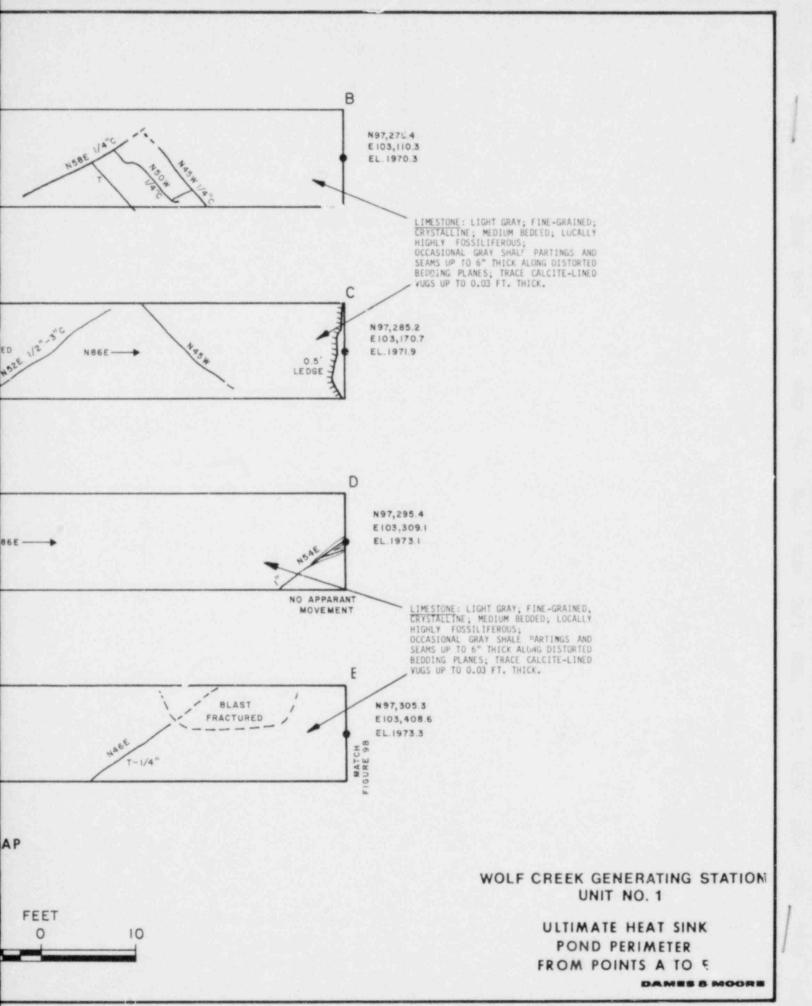


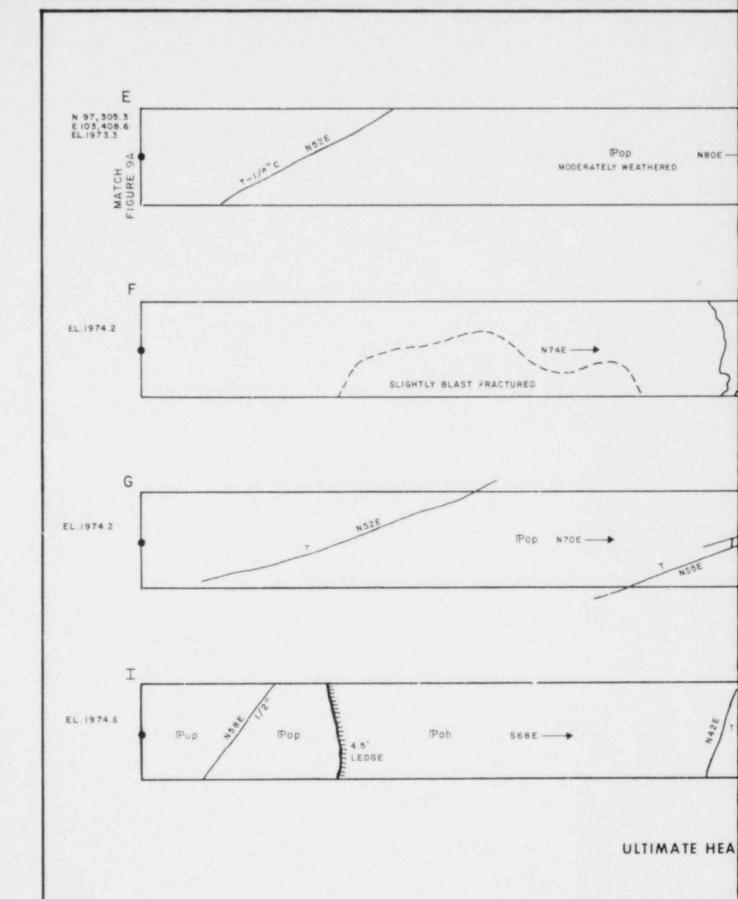




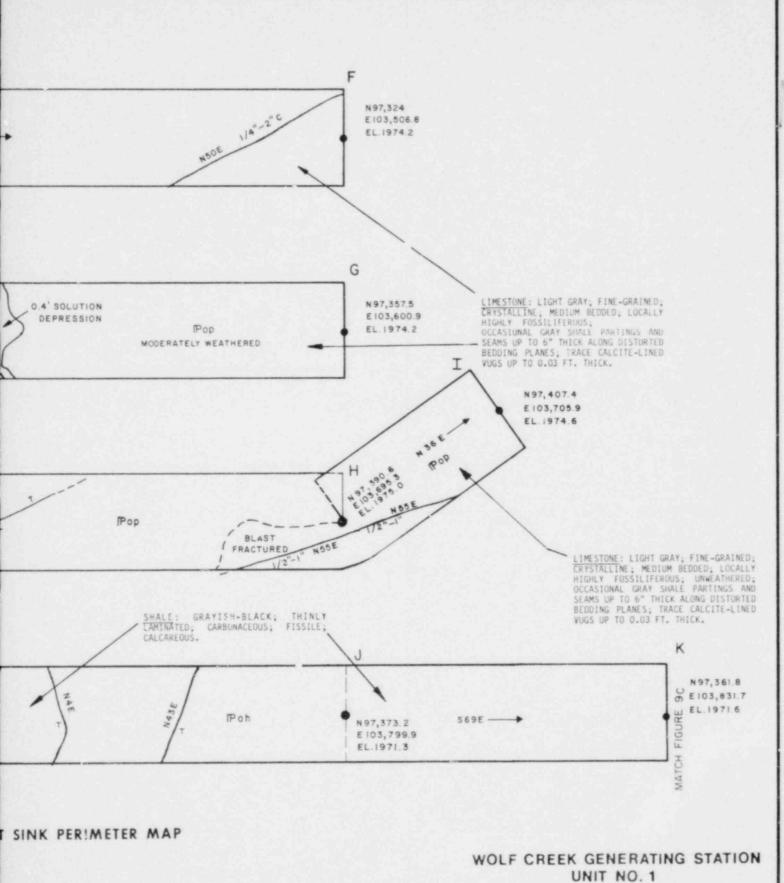
ULTIMATE HEAT SINK PERIMETER M

- 1. ELEVATIONS AND COORDINATES REFER TO
- SNUPPS DATUM. 2. SEE FIGURE 2 FOR AN EXPLANATION OF SYMBOLS USED IN MAPPING.
 3. SEE FIGURE 9 FOR LOCATION.





- 1. ELEVATIONS AND COORDINATES REFER TO
- SNUPPS DATUM. 2. SEE FIGURE 2 FOR AN EXPLANATION OF SYMBOLS USED IN MAPPING. 3. SEE FIGURE 9 FOR LOCATION.

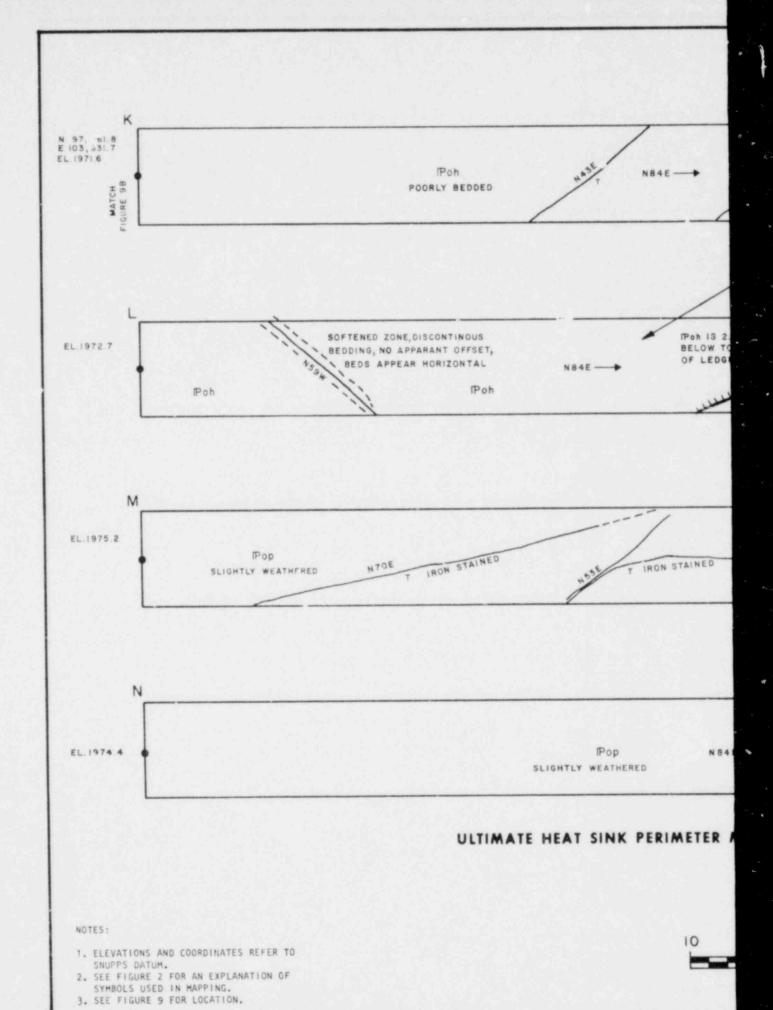


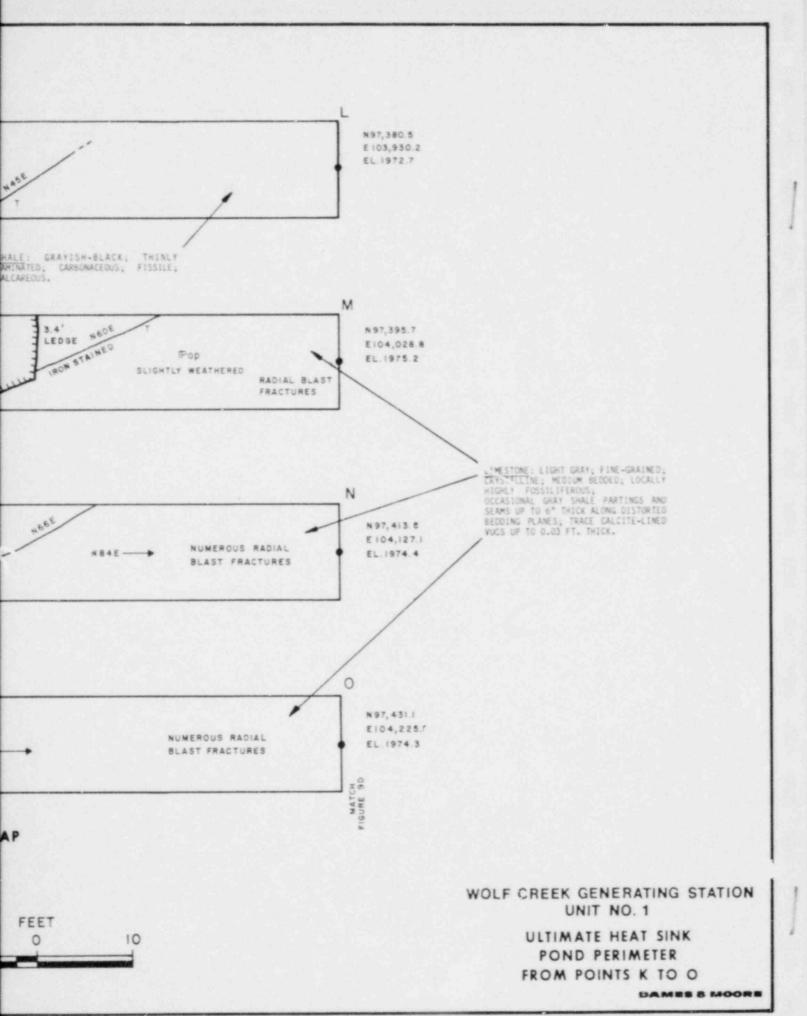
10

FEET

ULTIMATE HEAT SINK POND PERIMETER FROM POINTS E TO K

DAMES & MOORE



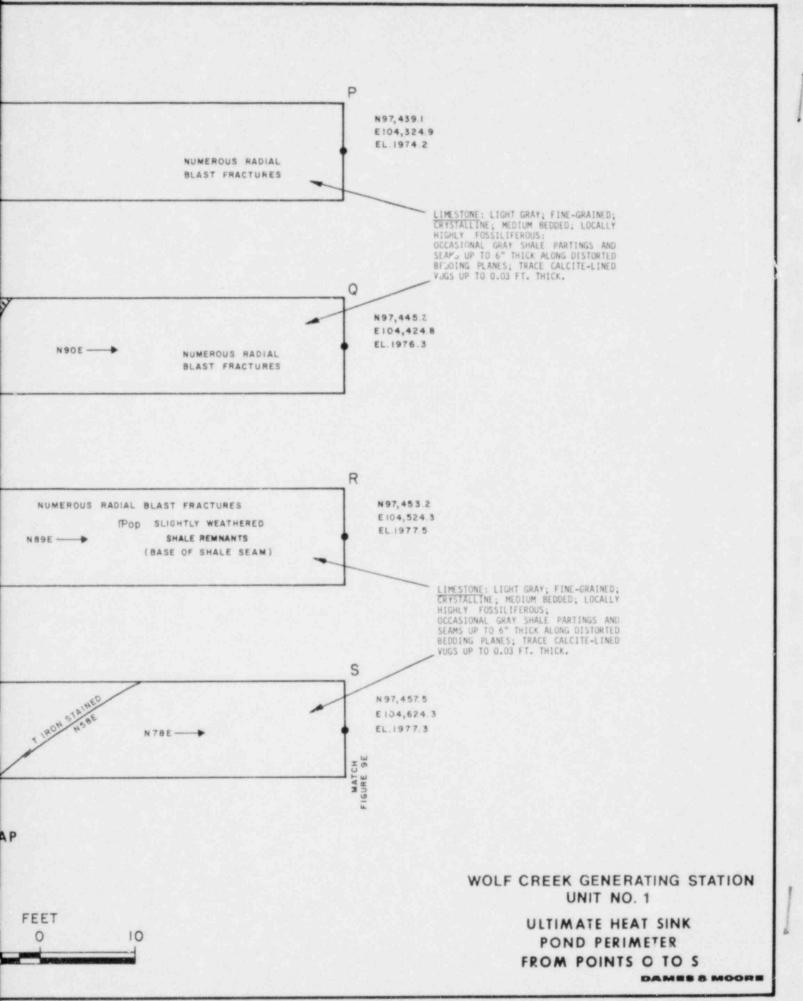


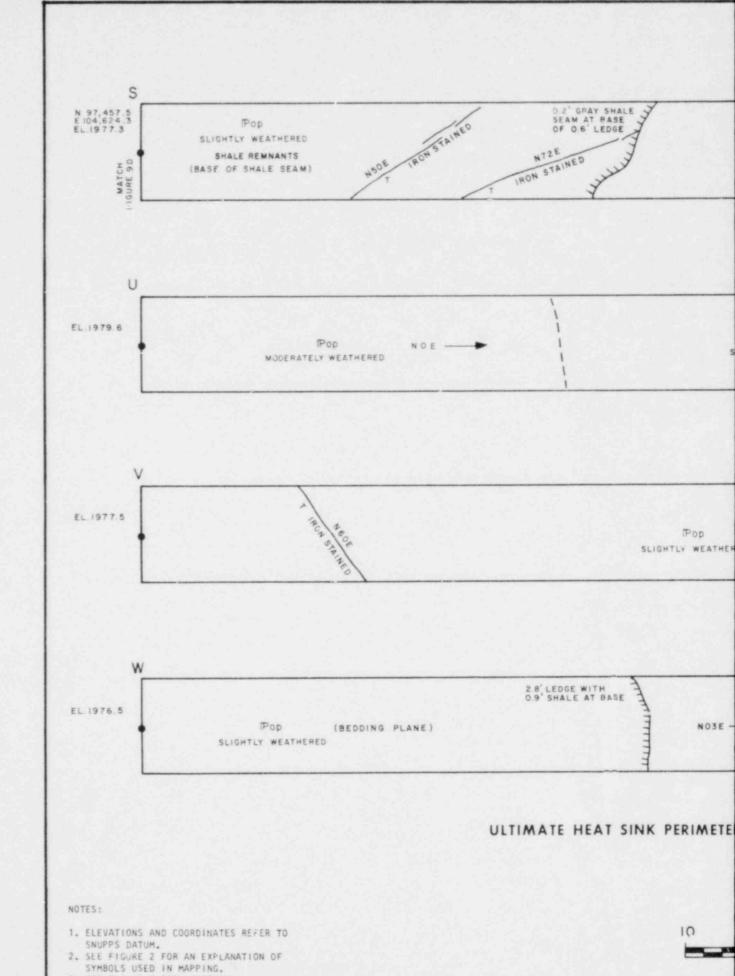
0 N 97, 431.1 E 104,225.5 EL.1974.3 Pop N89E----MATCH FIGURE 9C SLIGHTLY WEATHERED P EL.1974.2 Pop SLIGHTLY WEATHERED Q 1.1 LEDGE 0.5 LEDGE EL 1976.3 Pop NUMEROUS RADIAL SLIGHTLY WEATHERED BLAST FRACTURES R Pop EL.1977.5 SLIGHTLY WEATHERED SHALE REMNANTS (BASE OF SHALE SEAM) SOME RADIAL BLAST FRACTURES ULTIMATE HEAT SINK PERIMETER M NOTES: 1. ELEVATIONS AND COORDINATES REFER TO

SNUPPS DATUM.

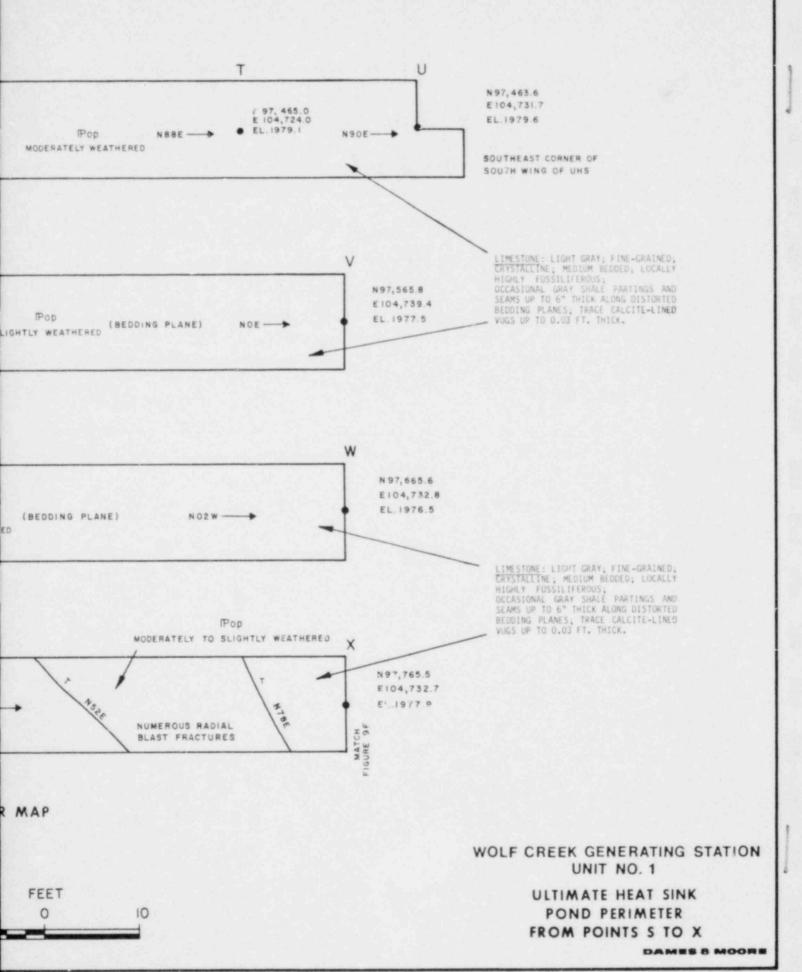
2. SEE FIGURE 2 FOR AN EXPLANATION OF SYMBOLS USED IN MAPPING.

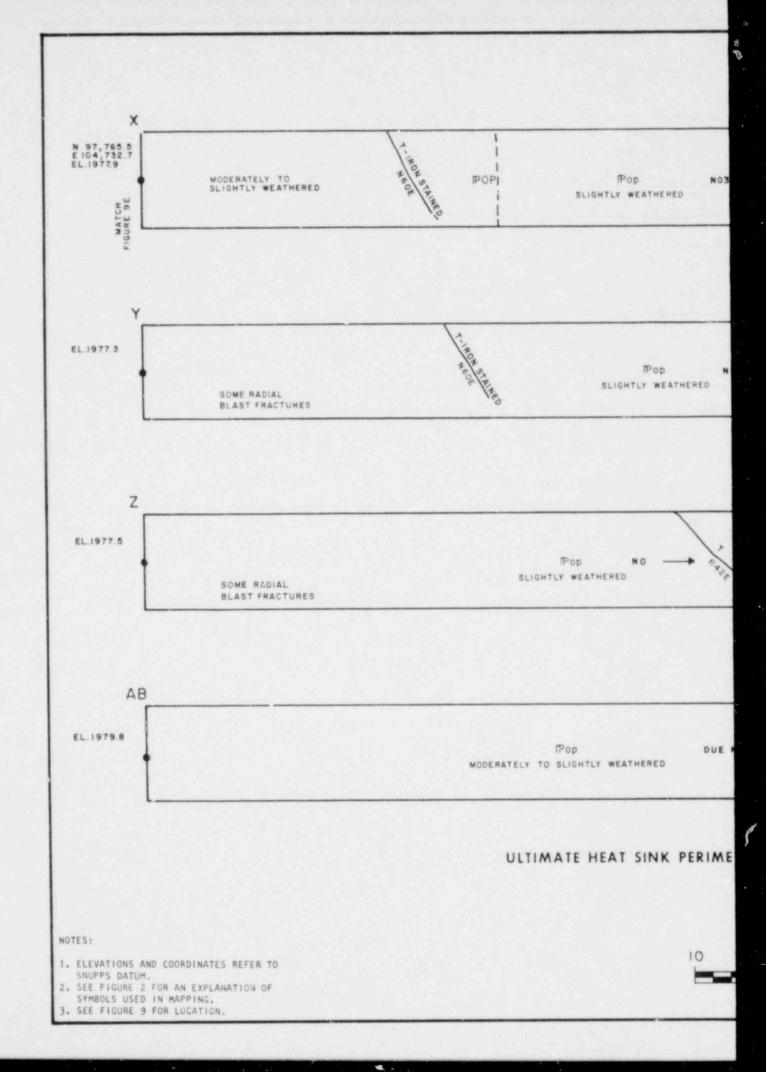
3. SEE FIGURE 9 FOR LOCATION.

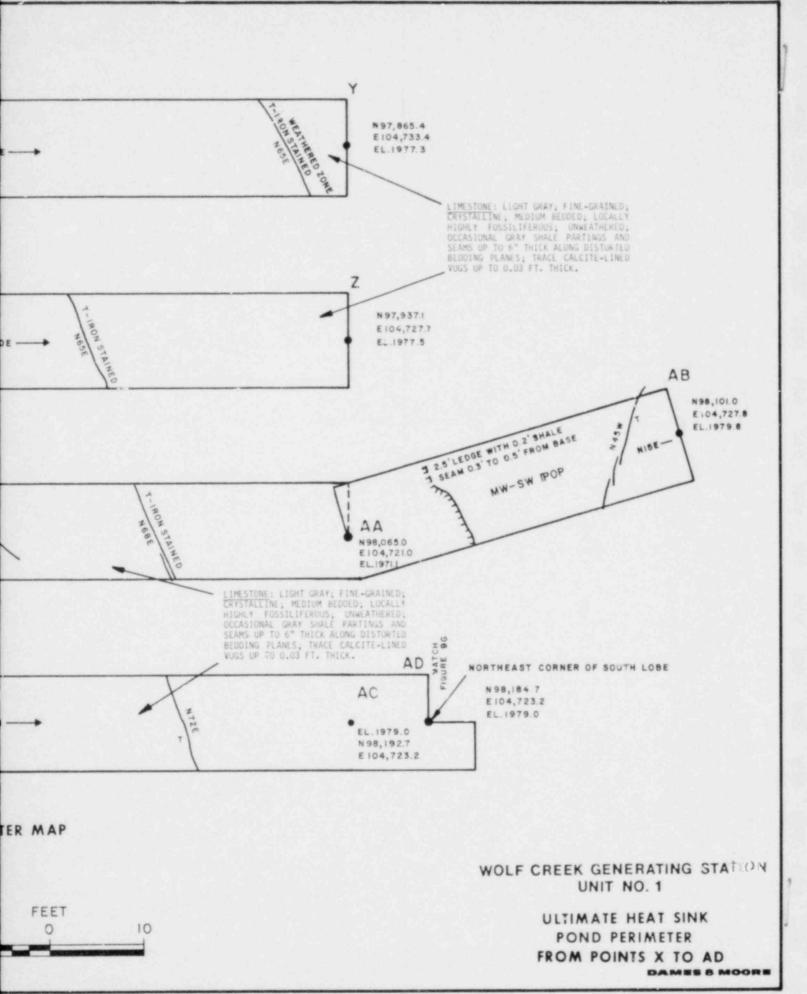


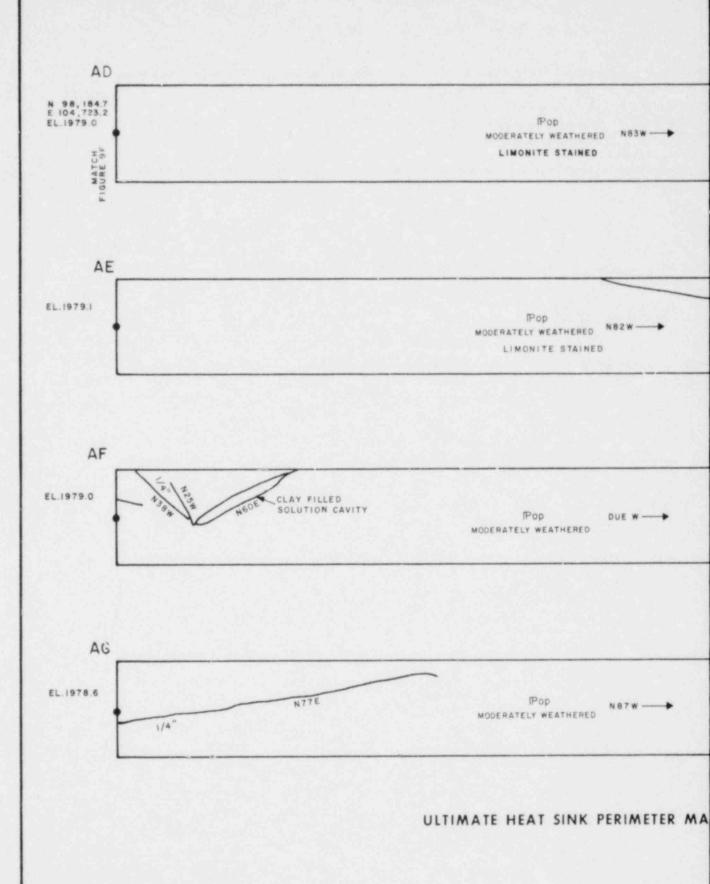


3. SEE FIGURE 9 FOR LOCATION.







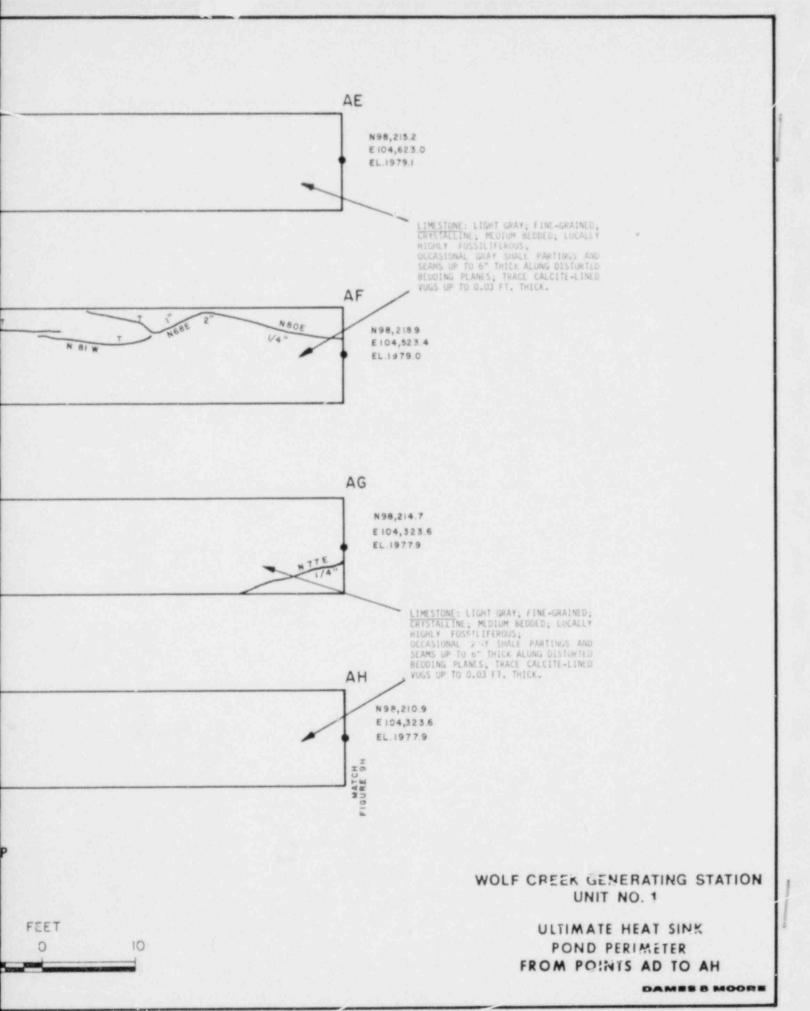


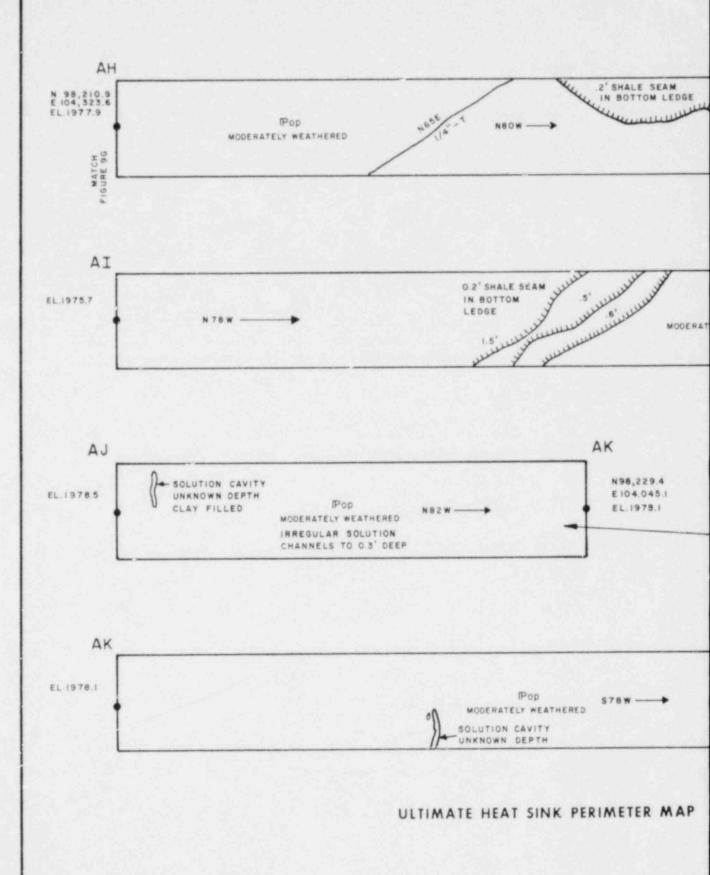
NOTES:

- 1. ELEVATIONS AND COORDINATES REFER TO
- SNUPPS DATUM.

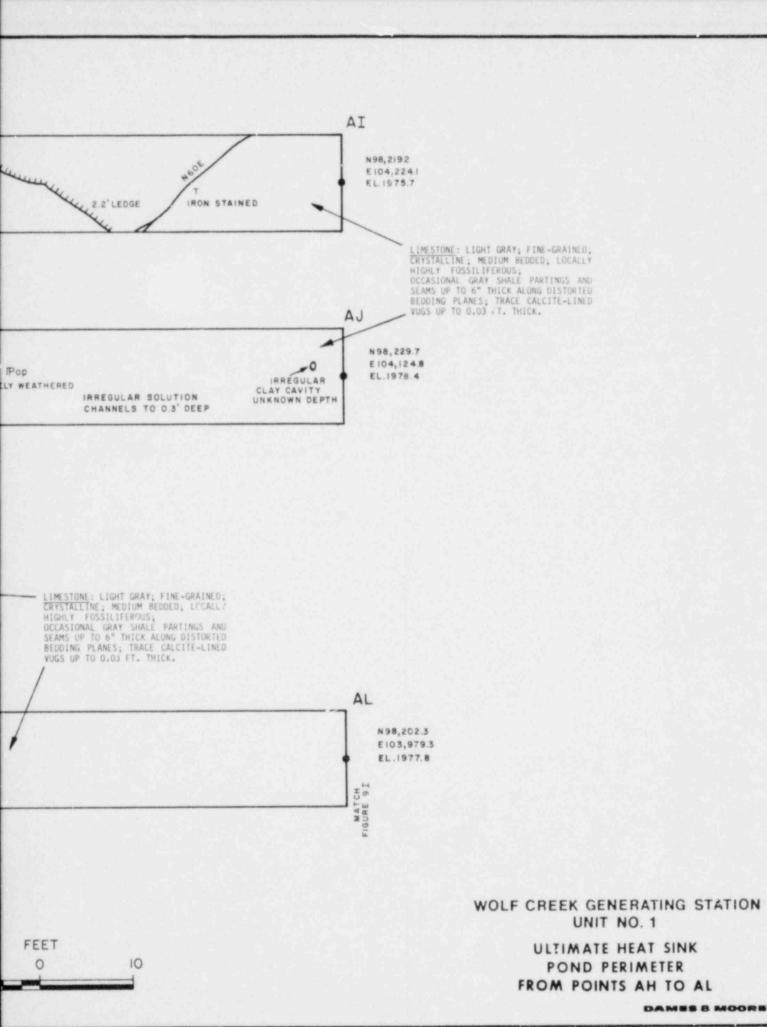
 2. SEE FIGURE 2 FOR AN EXPLANATION OF SYMBOLS USED IN MAPPING.
- 3. SEE FIGURE 9 FOR LUCATION.

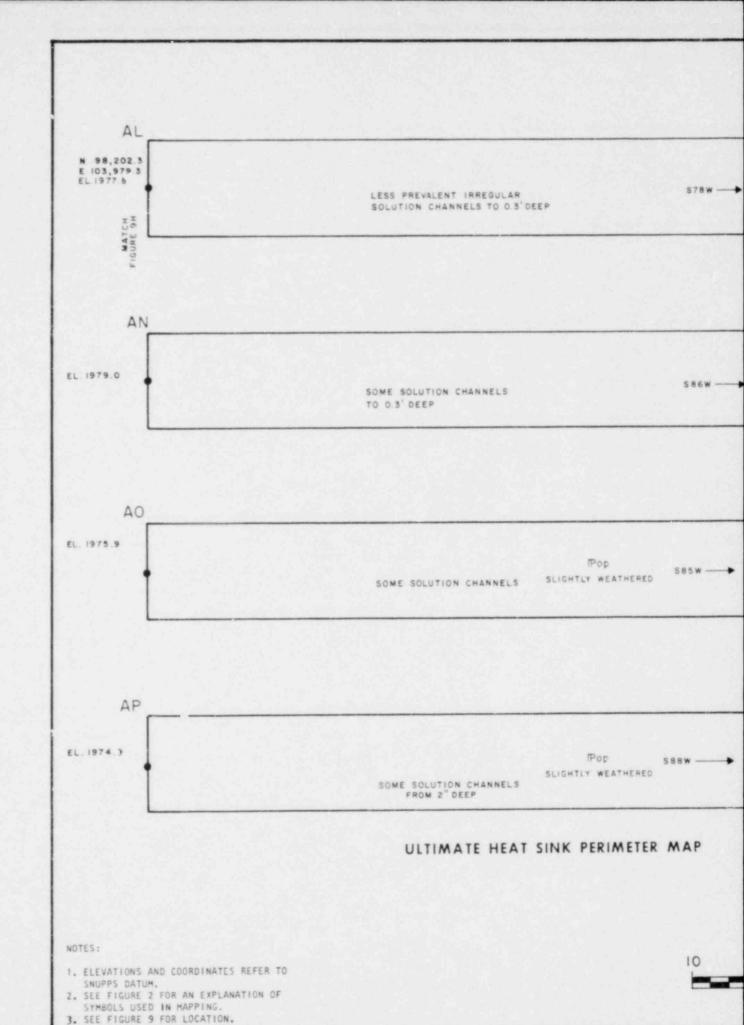
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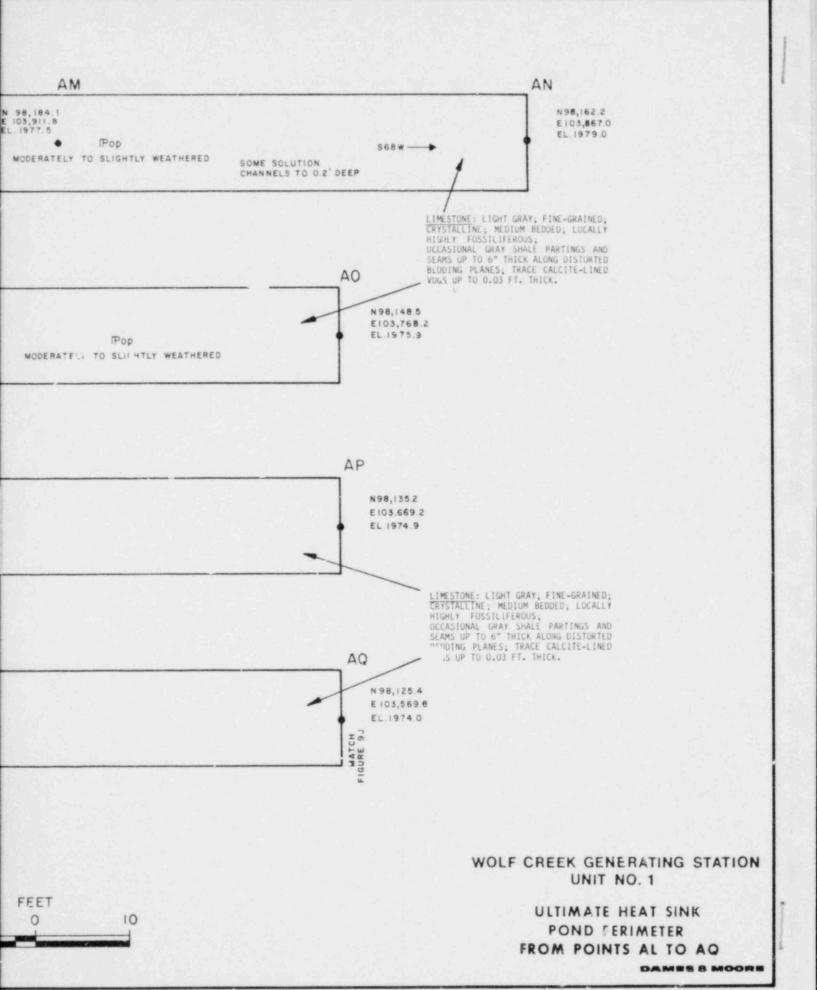


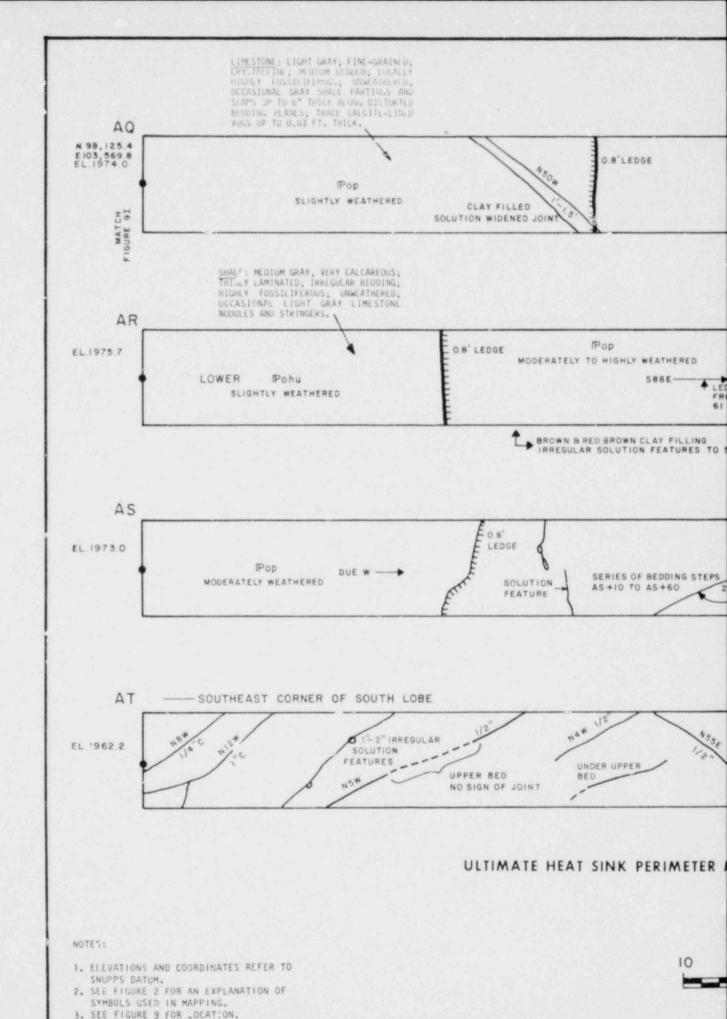


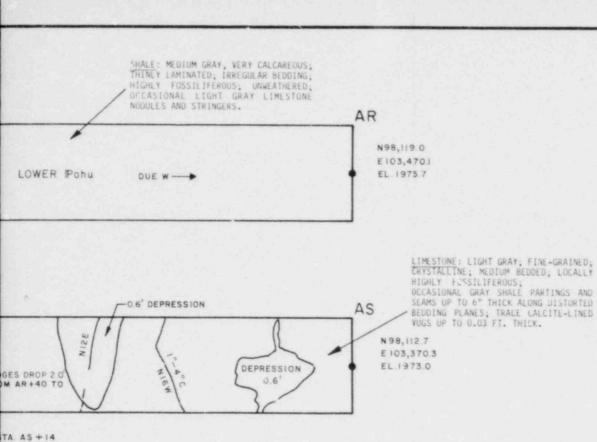
- 1. ELEVATIONS AND COORDINATES REFER TO
- SNUPPS DATUM. 2. SEE FIGURE 2 FOR AN EXPLANATION OF SYMBOLS USED IN MAPPING.
- 3. SEE FIGURE 9 FOR LOCATION.











AT NORTHWEST CORNER OF SOUTH LOBE N98,108.9 E103,285.4 EL.1962.2 Z SOLUTION LIMESTONE: LIGHT GRAY, FINE-GRAINE /; CRYSTALLINE; MEDIUM BEDDED; LOCA LY HIGHLY FOSSILIFEROUS; UCCASIONAL GRAY SHALE PARTINGS AND SEAMS UP TO 6" THICK ALONG DISJORTED BEDDING PLANES; TRACE CALCITE-LINED VUGS UP TO 0.03 FT. THICK. AU 0.5 N98,199.2 LEDGE E103,328.2 Pop EL 1962.1 MODERATELY WEATHERED FIGURE 9K MAP

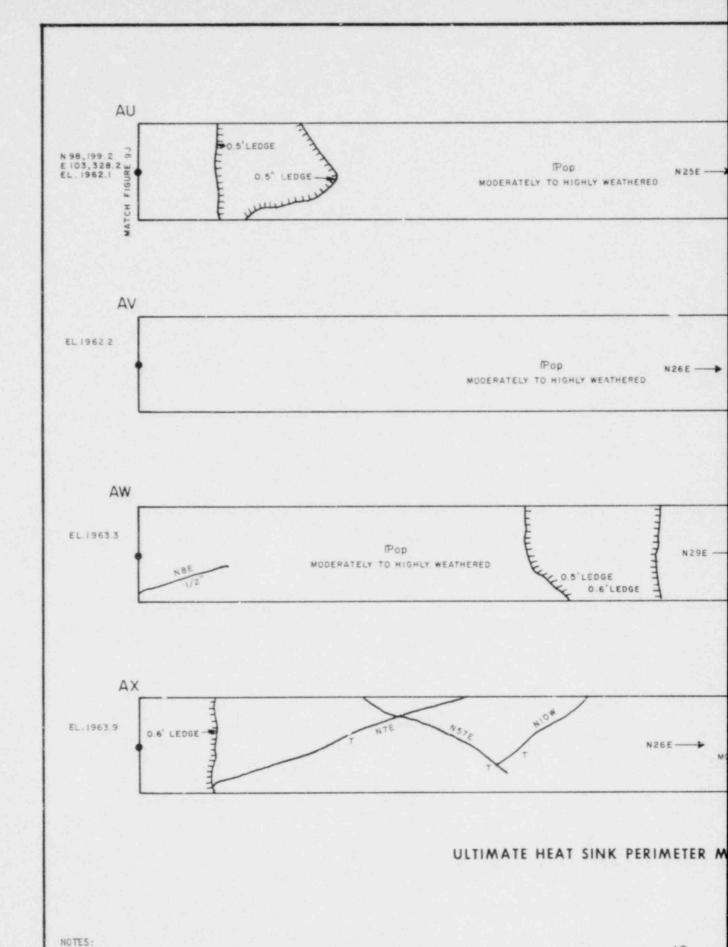
FEET

10

WOLF CREEK GENERATING STATION UNIT NO. 1

POND PERIMETER
FROM POINTS AQ TO AU

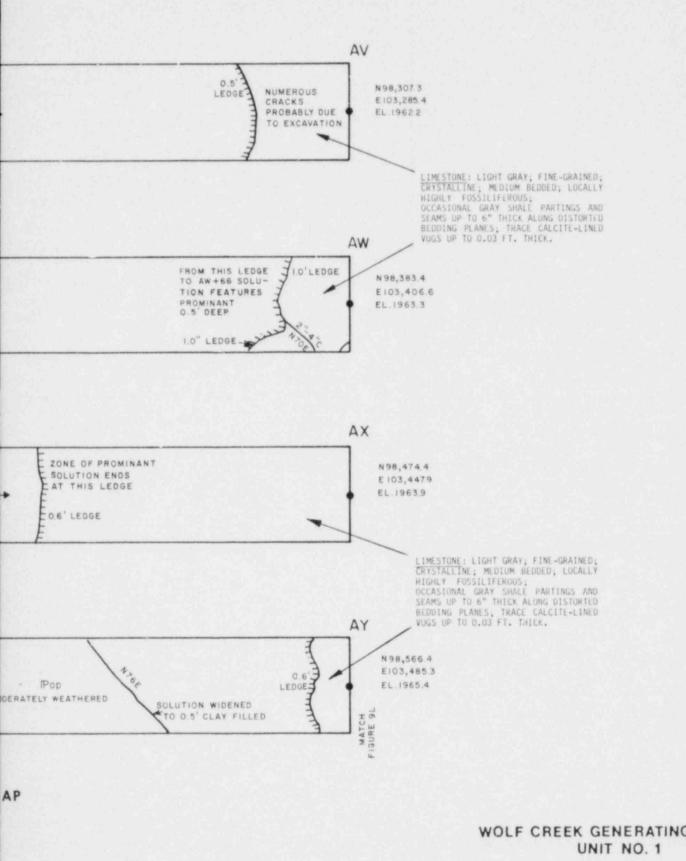
DAMES B MOORE



ELEVATIONS AND COORDINATES REFER TO SNUPPS DATUM.
 SEE FIGURE 2 FOR AN EXPLANATION OF SYMBOLS USED

IN MAPPING.

SEE FIGURE 9 FOR LOCATION.



FEET

10

WOLF CREEK GENERATING STATION

ULTIMATE HEAT SINK POND PERIMETER FROM POINTS AU TO AY

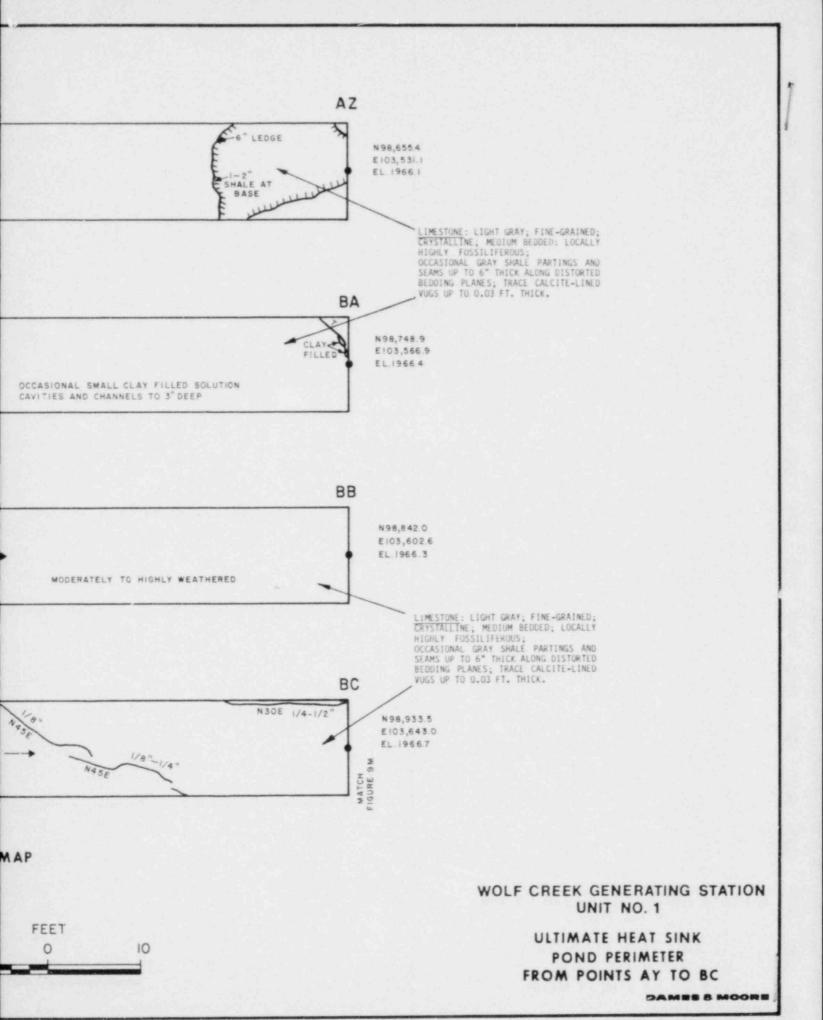
DAMES & MOOR

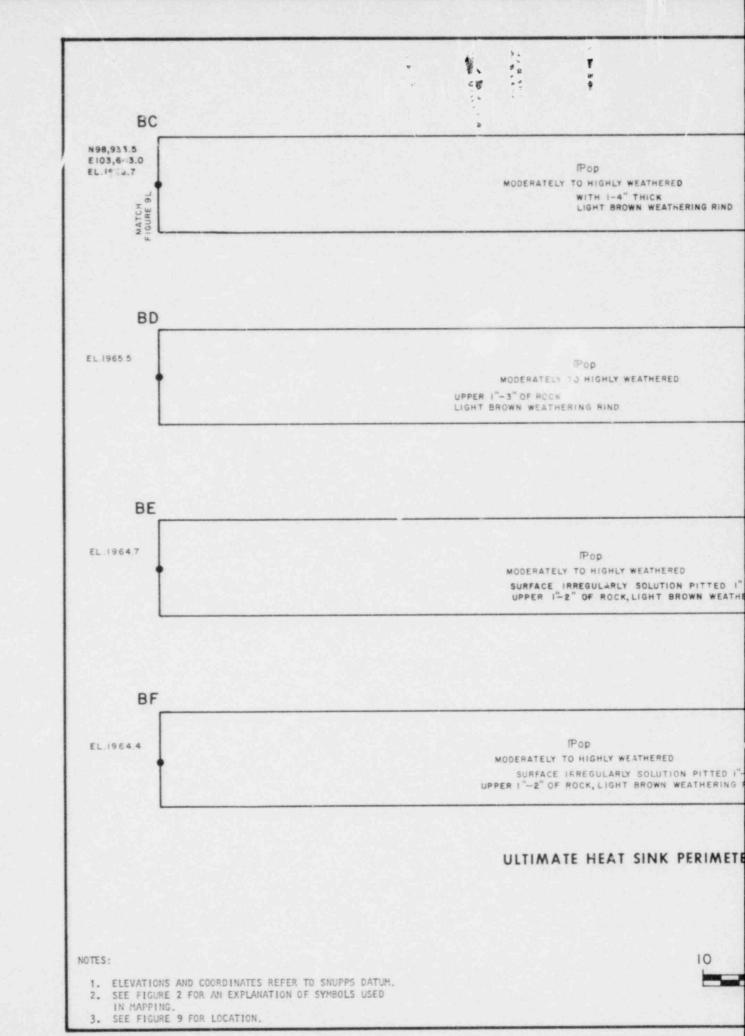
AY N 98,566 4 E 103,485 3 IRREGULAR SOLUTION CHANNELS TO 4" DEEP MODERATELY WEATHERED NIBE -EL.1965.4 LEDGE LIGHT BROWN WEATHERING RIND 1-2" AZ EL 1966.1 Pop MODERATELY WEATHERED N24E-6" LEDGE 1-2" WEATHERING RIND 1-2" SHALE BA Emmunicate 6" EL.1966.4 Pop CLAY FILLED N25E-SOLUTION CHANNELS TO 4" 6"LEDGE BB EL. 1966.3 The state of the s Pop with irregular solution channels, Pop N278 /1/4"-1/8" WEATHERING RIND ULTIMATE HEAT SINK PERIMETER

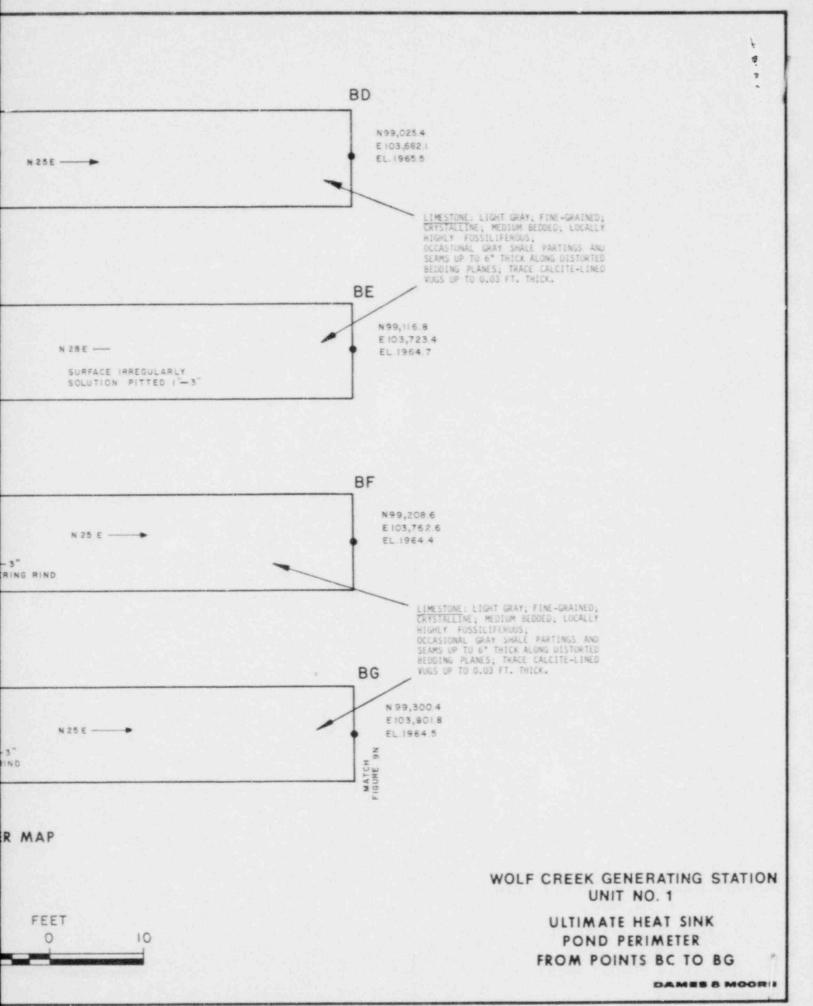
NOTES:

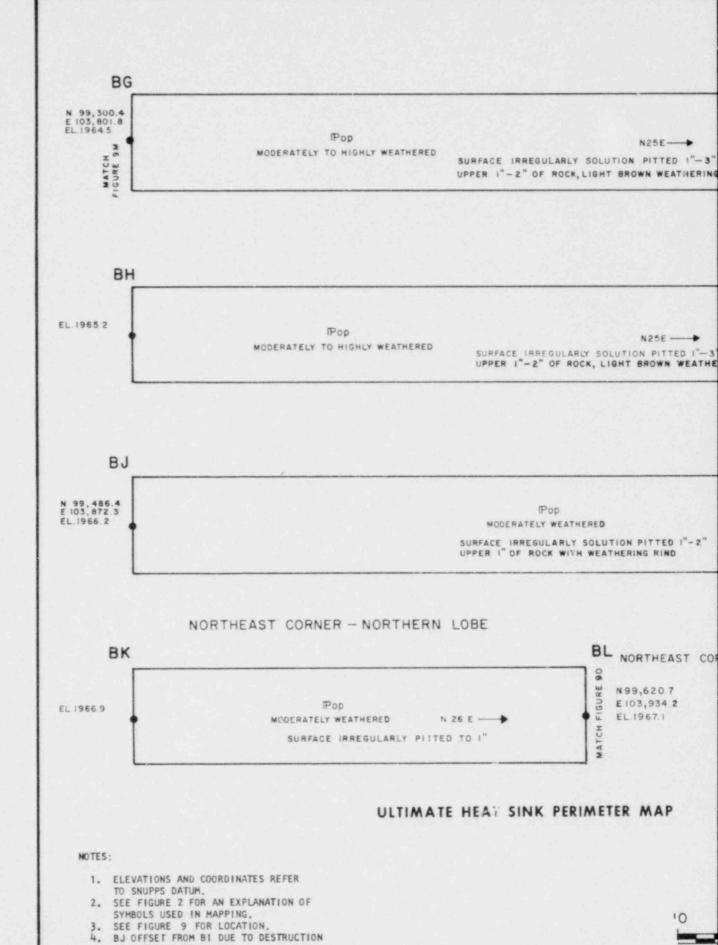
- 1. ELEVATIONS AND COORDINATES REFER TO SNUPPS DATUM.
 2. SEE FIGURE 2 FOR AN EXPLANATION OF SYMBOLS USED IN MAPPING.
- 3. SEE FIGURE 9 FOR LOCATION.

10

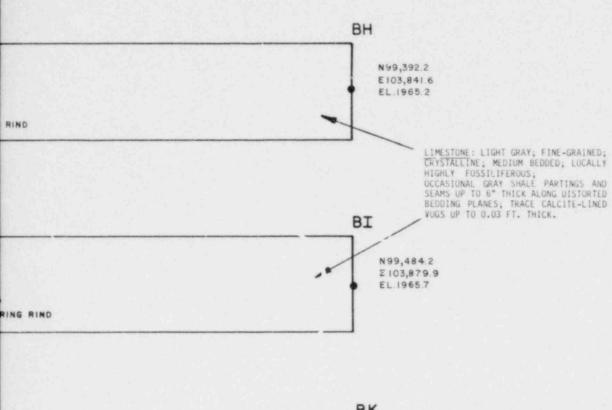


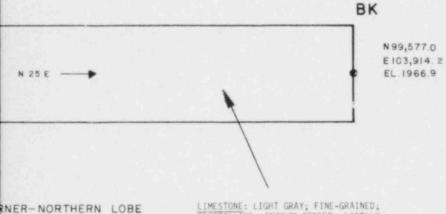






OF MARKER OVER WINTER.





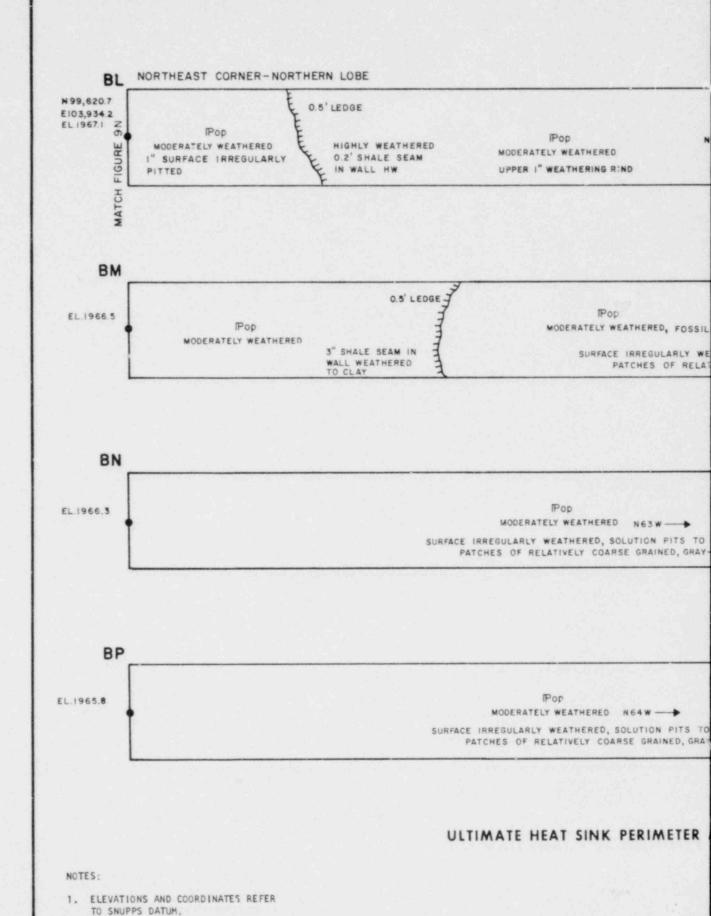
LIMESTONE: LIGHT GRAY; FINE-GRAINED, CRYSTALLINE; MEDIUM BEDDED; LOCALLY HIGHLY FOSSILIFEROUS; OCCASIONAL GRAY SHALE PARTINGS AND SEAMS UP TO 6" THICK ALONG DISTORTED BEDDING PLANES; TRACE CALCITE-LINED VUGS UP TO 0.03 FT. THICK.

WOLF CREEK GENERATING STATION UNIT NO. 1

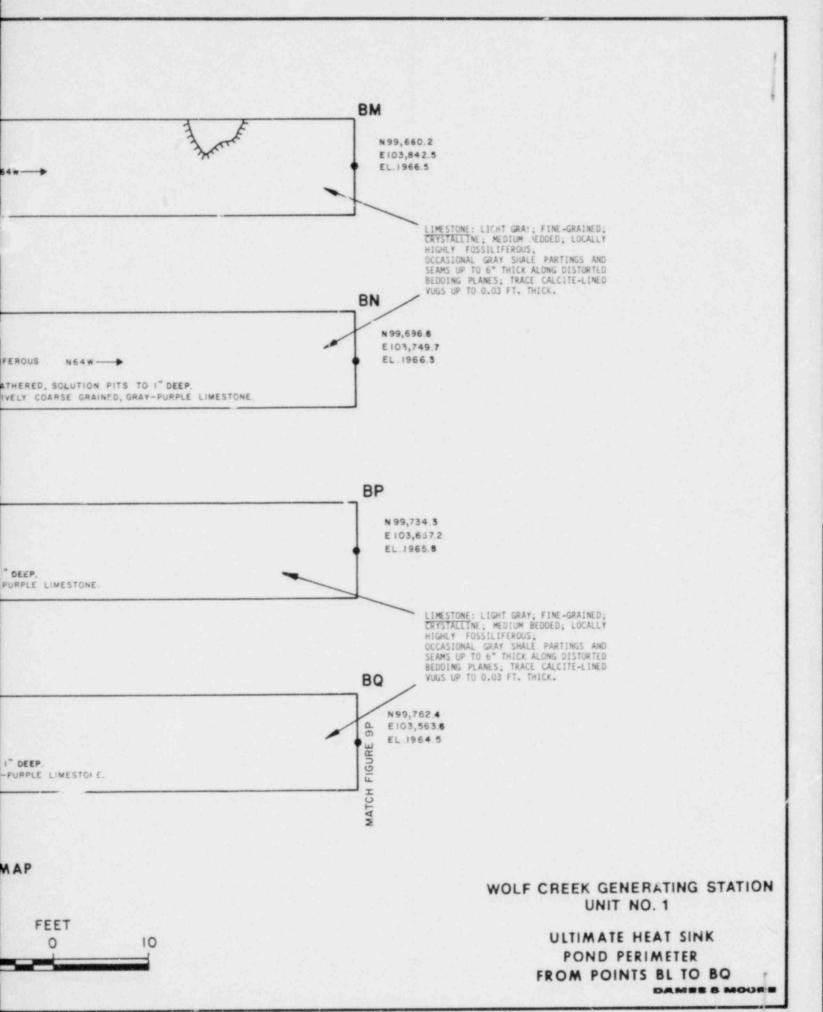
> ULTIMATE HEAT SINK POND PERIMETER FROM POINTS BG TO BL

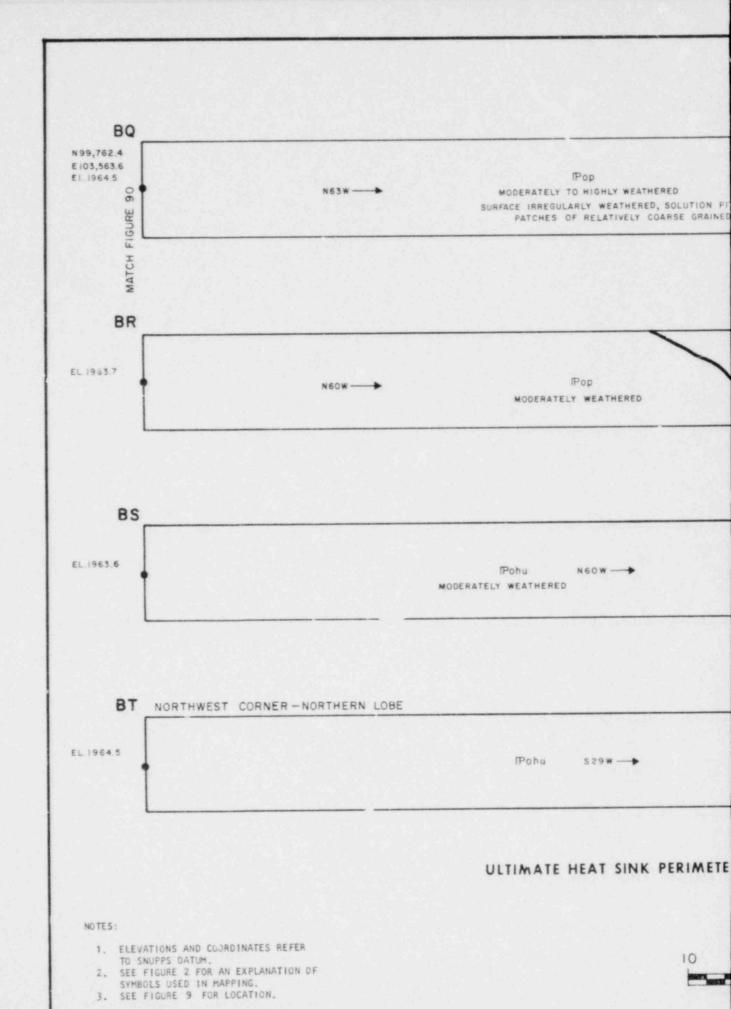
> > DAMES & MOORE

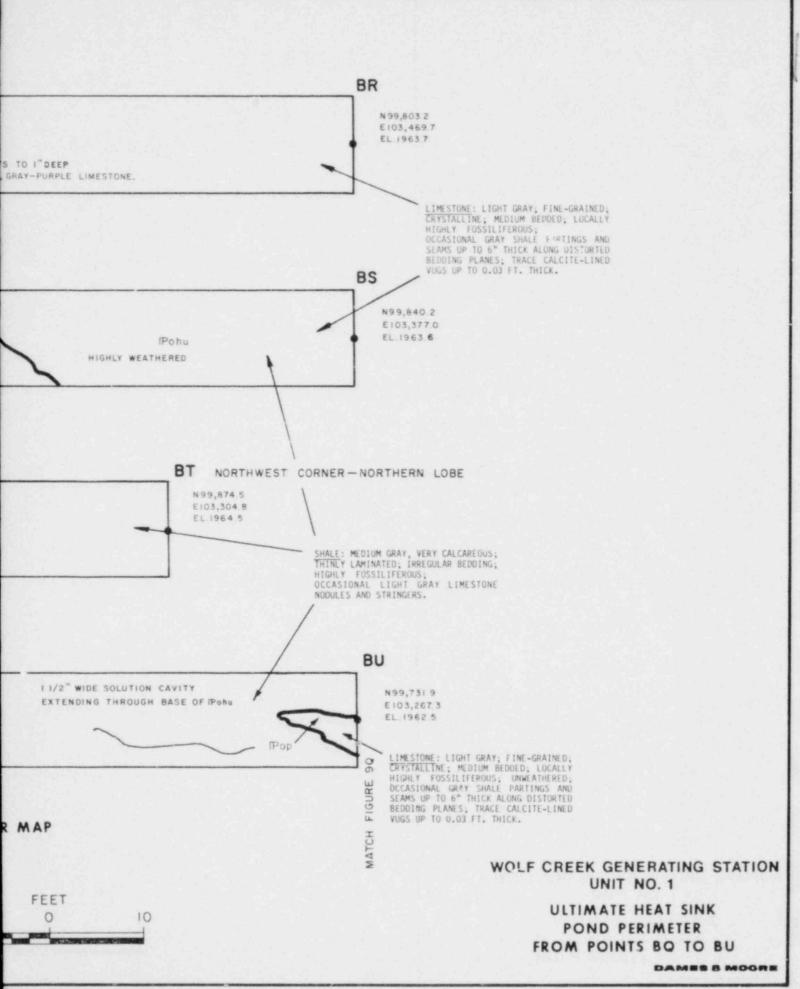


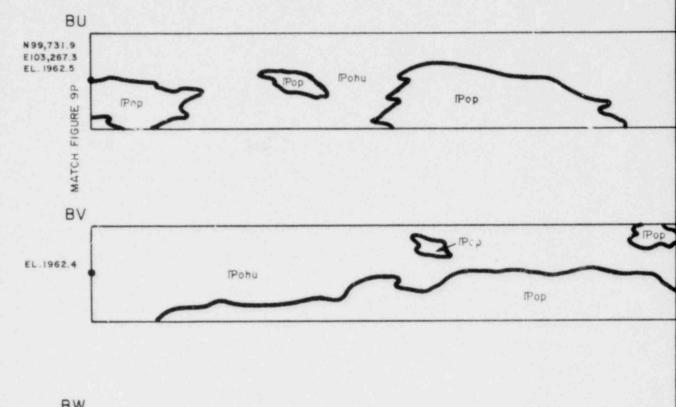


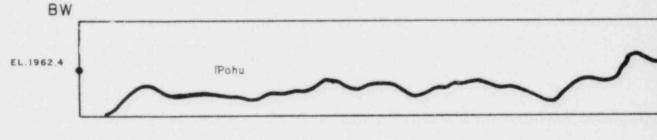
 SEE FIGURE 9 FOR LOCATION.
 SEE FIGURE 2 FOR AN EXPLANATION OF SYMBOLS USED IN MAPPING

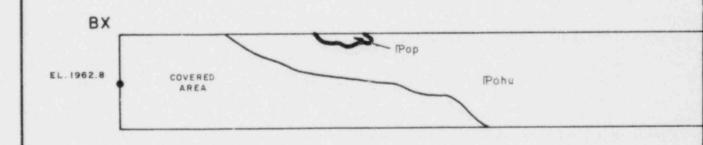










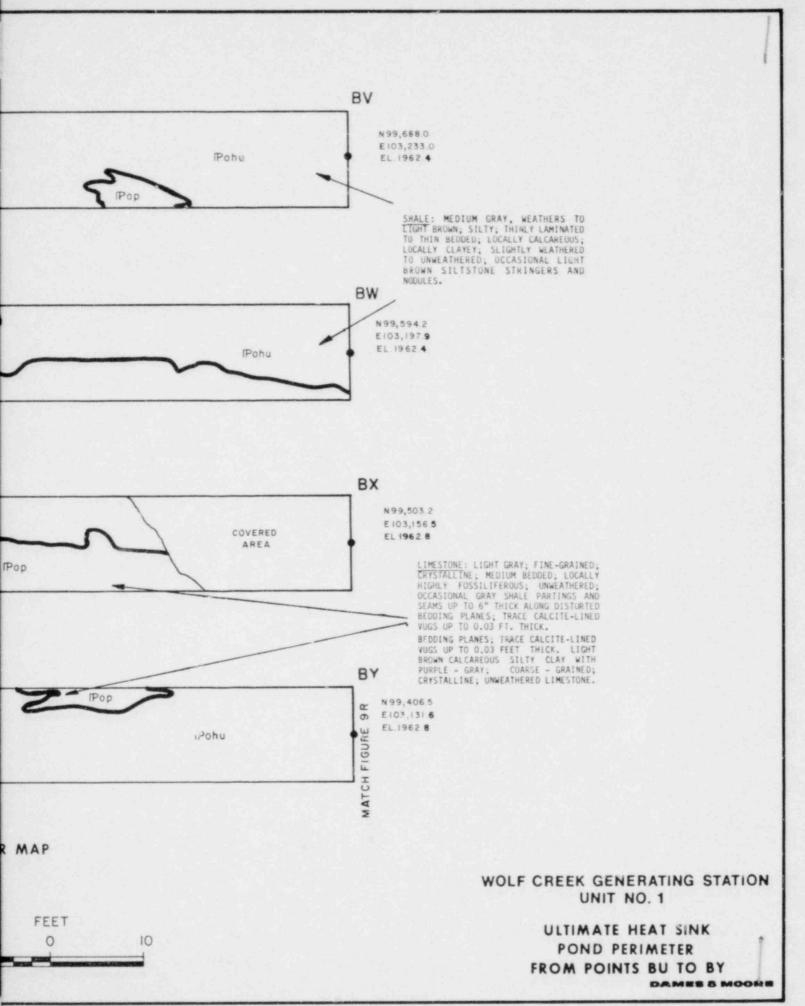


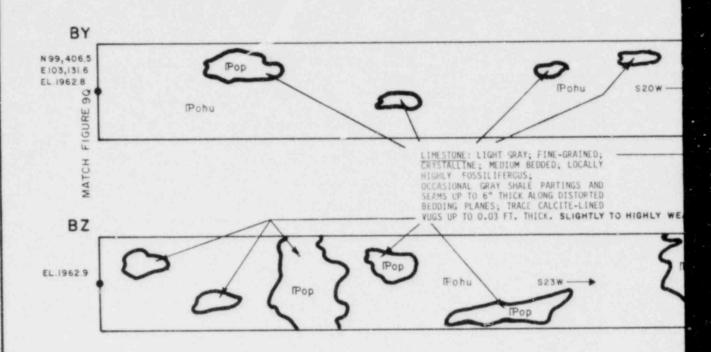
ULTIMATE HEAT SINK PERIMETE

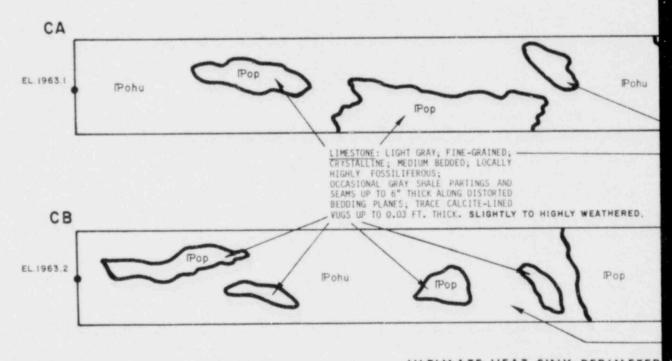
NOTES:

- 1. ELEVATIONS AND COORDINATES REFER TO SNUPPS DATUM.
- SEE FIGURS 2 FOR AN EXPLANATION OF SYMBOLS USED IN MAPPING.
- 3. SEE FIGURE 9 FOR LOCATION.

10

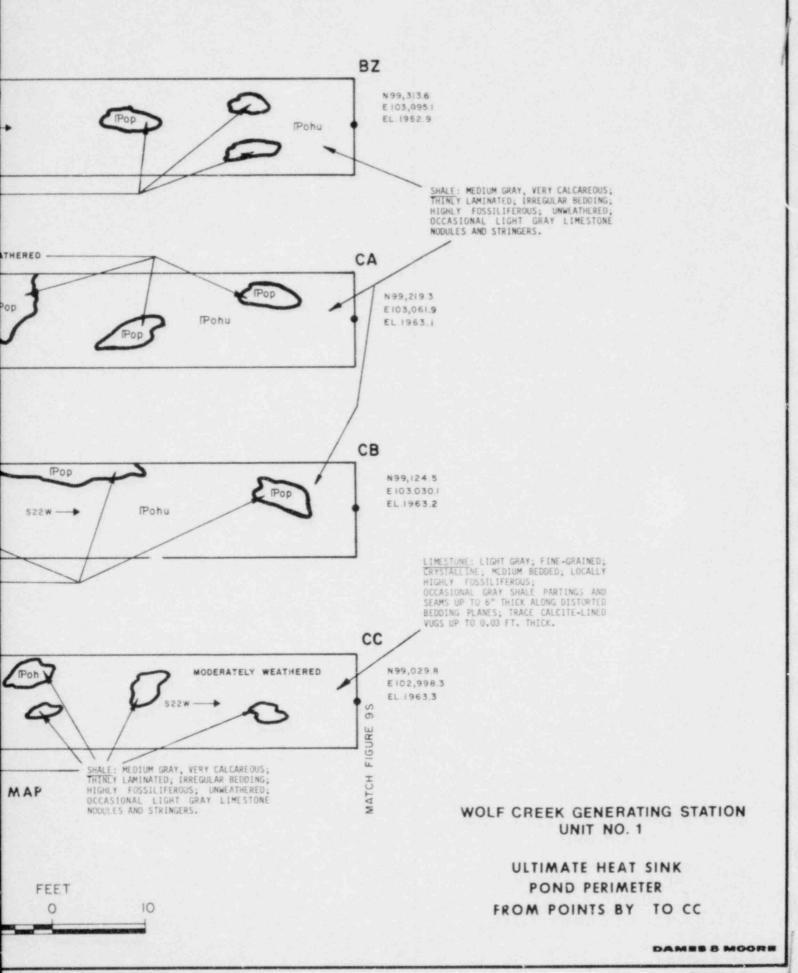


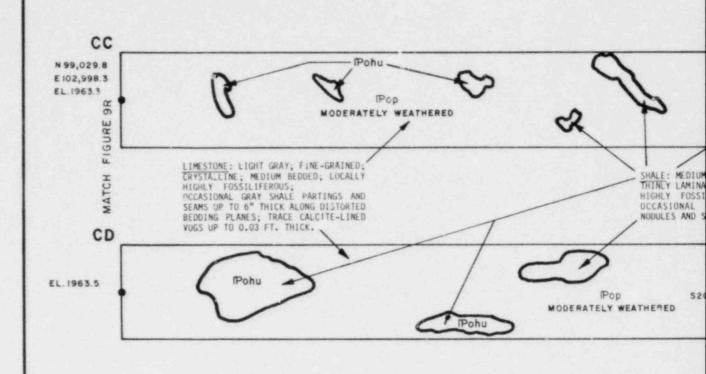


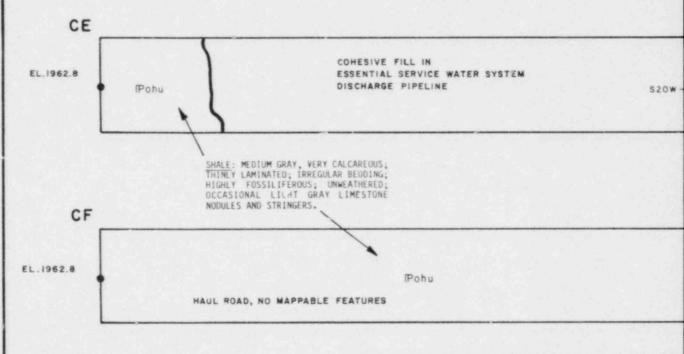


ULTIMATE HEAT SINK PERIMETER

- ELEVATIONS AND COORDINATES REFER TO SNUPPS DATUM.
- SEE FIGURE 2 FOR AN EXPLANATION OF SYMBOLS USED IN MAPPING.
- 3. SEE FIGURE 9 FOR LOCATION.

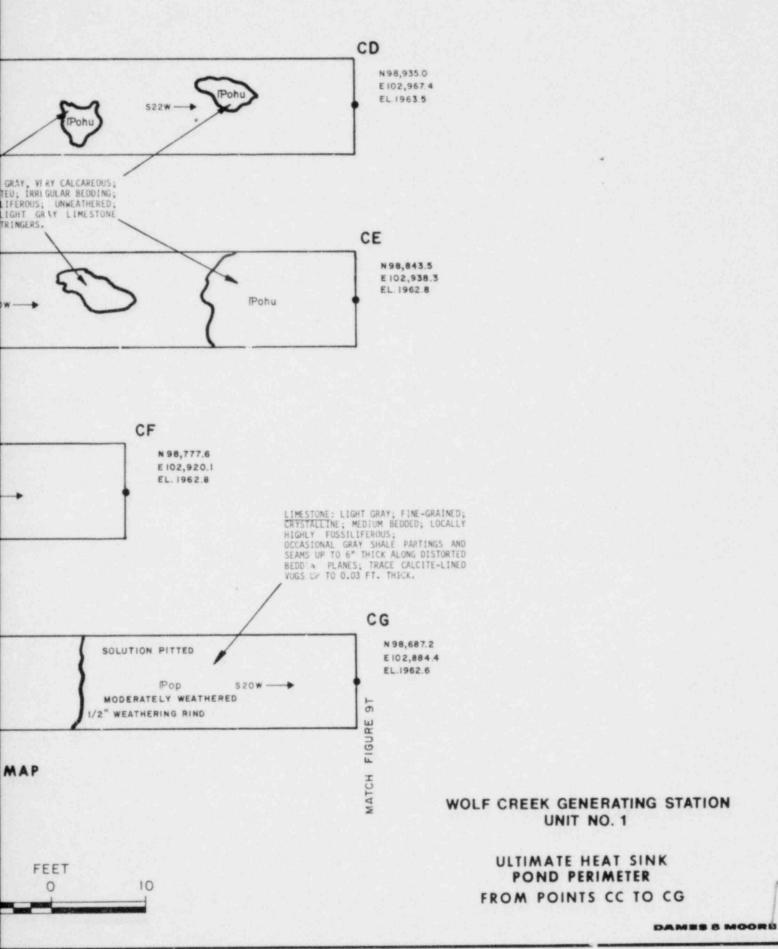


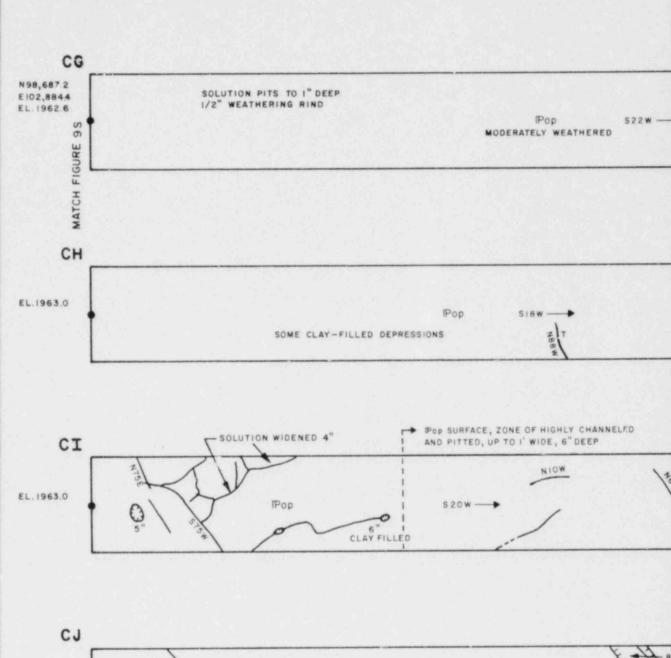


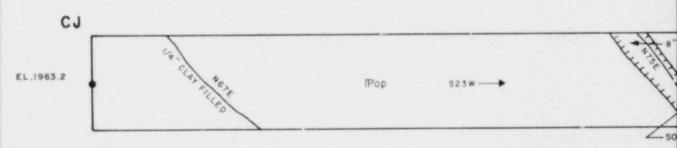


ULTIMATE HEAT SINK PERIMETER

- 1. ELEVATIONS AND COORDINATES REFER TO SNUPPS DATUM.
- SEE FIGURE 2 FOR AN EXPLANATION OF SYMBOLS USED IN MAPPING.
- 3. SEE FIGURE 9 FOR LOCATION.





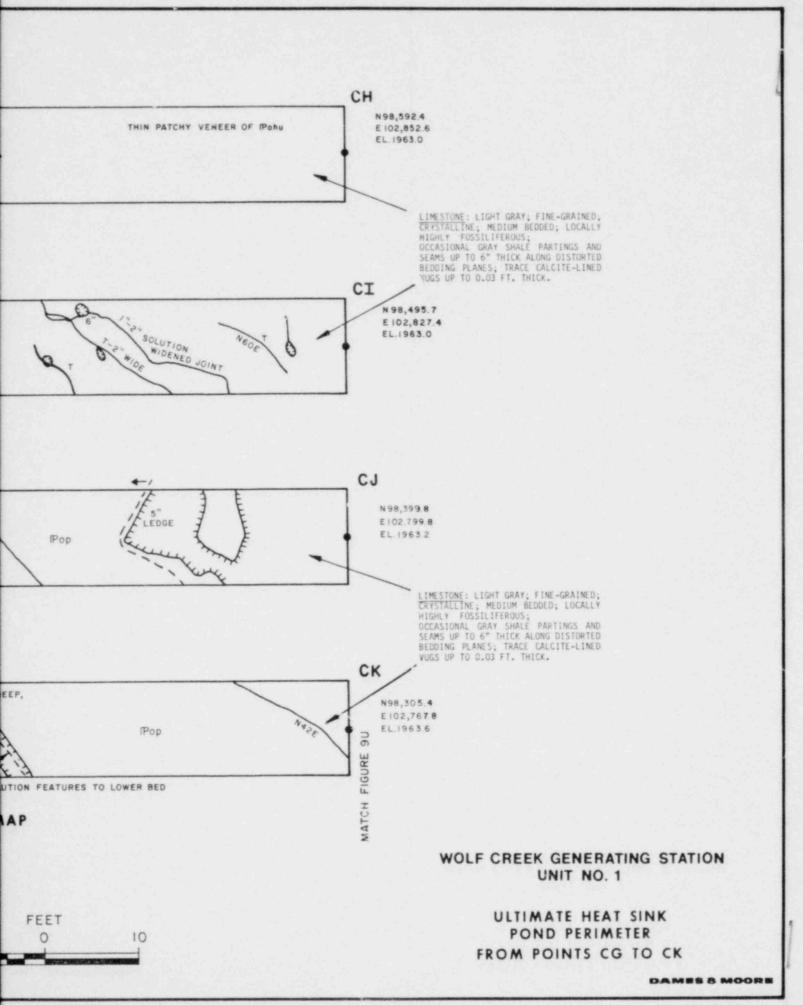


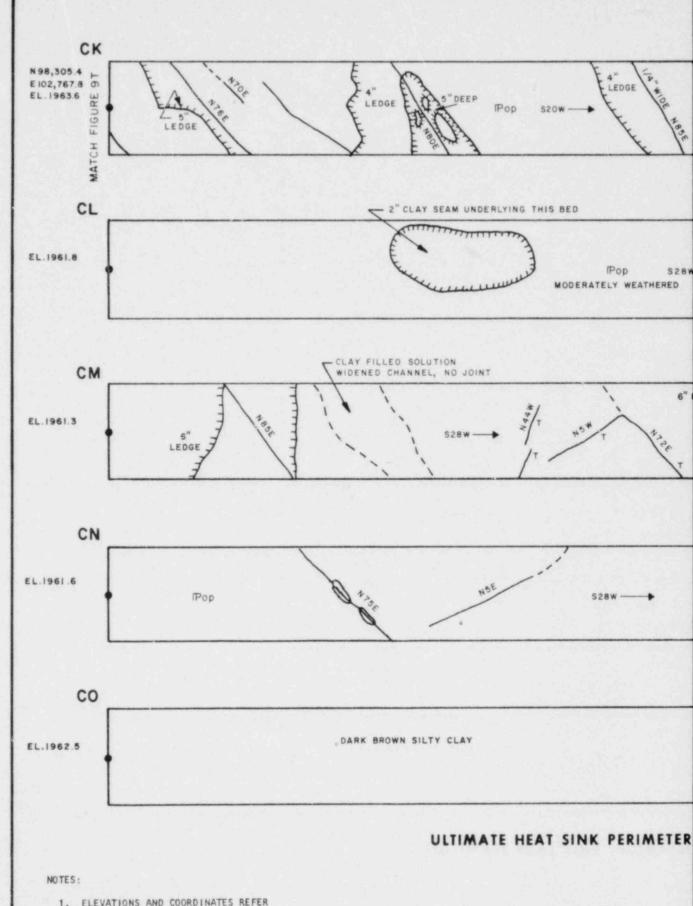
ULTIMATE HEAT SINK PERIMETER

NOTES:

- ELEVATIONS AND COORDINATES REFER TO SHUPPS DATUM.
- SEE FIGURE 2 FOR AN EXPLANATION OF SYMBOLS USED IN MAPPING.
- 3. SEE IGURE 9 FOR LOCATION.

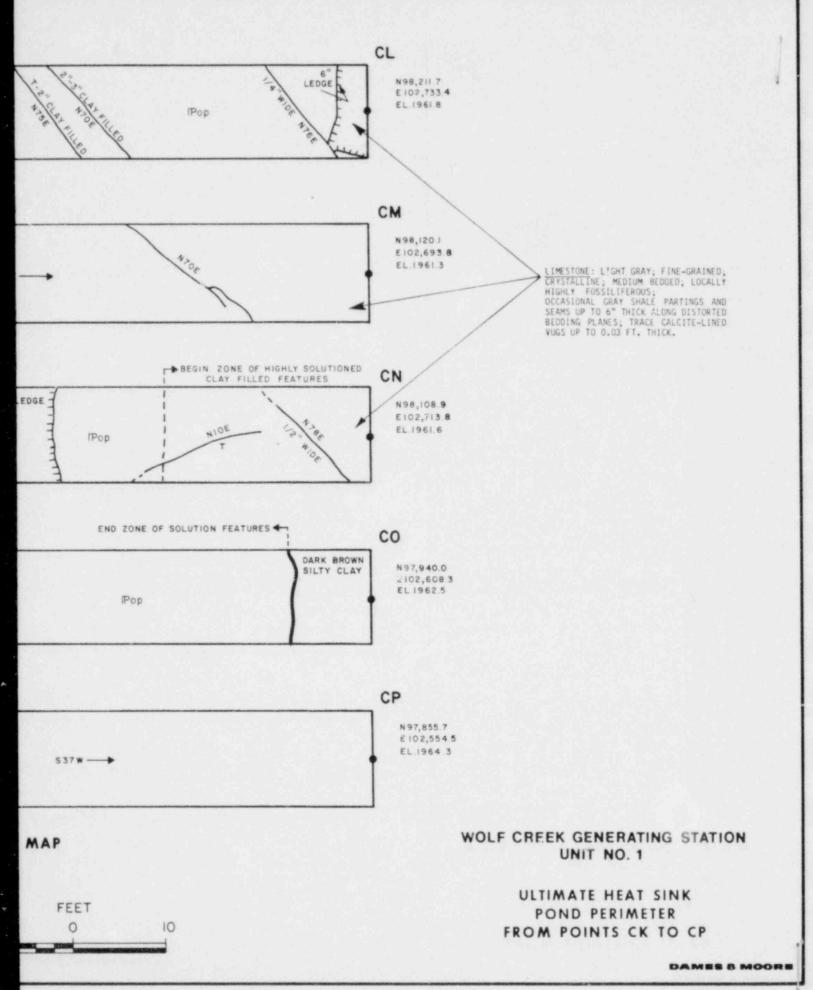
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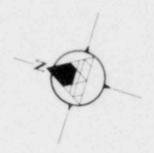




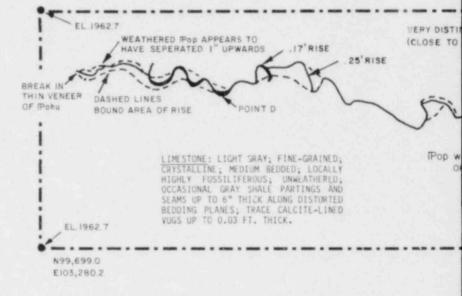
- ELEVATIONS AND COORDINATES REFER TO SNUPPS DATUM.
- SEE FIGURE 2 FOR AN EXPLANATION OF SYMBOLS USED IN MAPPING.
- 3. SEE FIGURE 9 FOR LOCATION.

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N99,707.6 E103.303.7

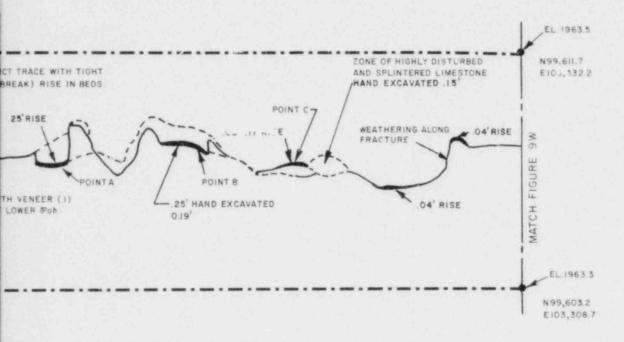


NOTES:

- ELEVATIONS AND COORDINATES REFER TO SNUPPS DATUM.
- 2. SEE FIGURE 9 FOR LOCATION.
- SEE FIGURE 2 FOR AN EXPLANATION OF SYMBOLS USED IN MAPPING.
- 4. PLATTSMOUTH LIMESTONE APPEARS TO HAVE SEPARATED ALONG SUBHORIZONTAL BEDDING PLANES. "RISES" PARALLEL TO GENERAL NIOW TREND ARE SUB-PARALLEL OR AT LOW ANGLES TO BEDDING PLANES. MOST FRACTURING APPEARS TO BE ALONG WEATHERED JOINTS.
- 5. POINTS A-D REFER TO MEASUREMENT LOCATIONS.

G

UL'



IMATE HEAT SINK

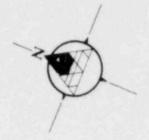
WOLF CREEK GENERATING STATION UNIT NO. 1

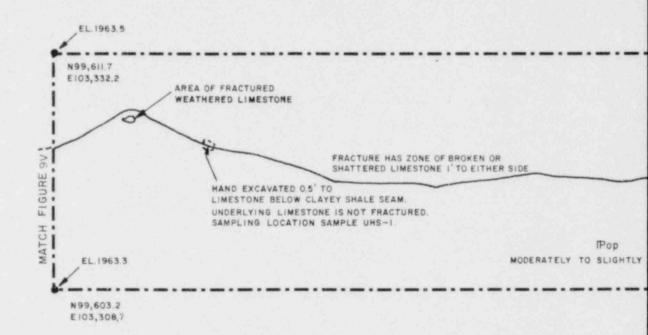
DETAIL MAP
"POP-UP" TYPE FEATURE
ULTIMATE HEAT SINK
POND FLOOR

DAMES 8 MOORE

0 10

FEET



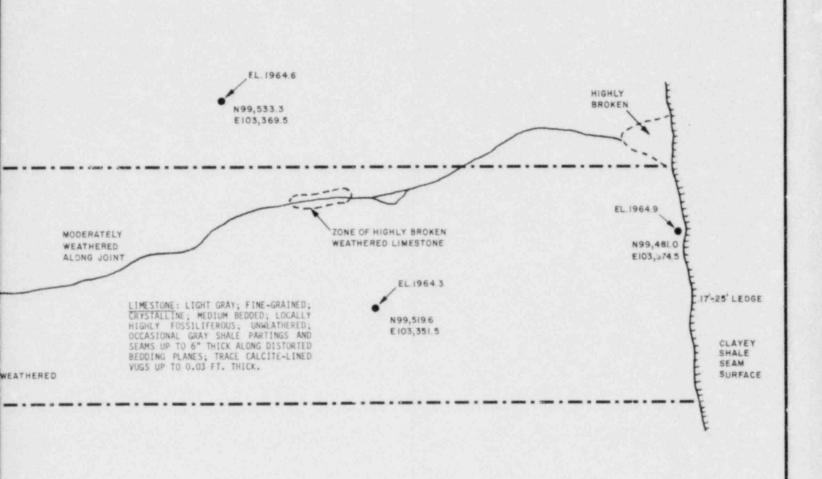


NOTES:

- ELEVATIONS AND COORDINATES REFER TO SNUPPS DATUM.
- 2. SEE FIGURE 9 FOR LOCATION.
- SEE FIGURE 2 FOR AN EXPLANATION OF SYMBOLS USED IN MAPPING.
- 4. SHALE SEAM AT BASE OF .17'-.25' LEDGE UNDERLIES LIMESTONE BED.
- 5. FEATURE MAPPED REPRESENTS MAIN FRACTURING WITH ZONE OF BROKEN ROCK ALONG ENTIRE LENGTH.

UL

10



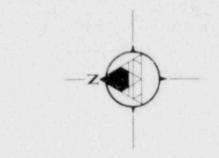
IMATE HEAT SINK

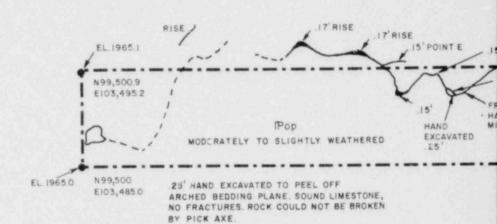
WOLF CREEK GENERATING STATION UNIT NO. 1

DETAIL MAP
"POP-UP" TYPE FEATURE
ULTIMATE HEAT SINK
POND SLOOR

0 10

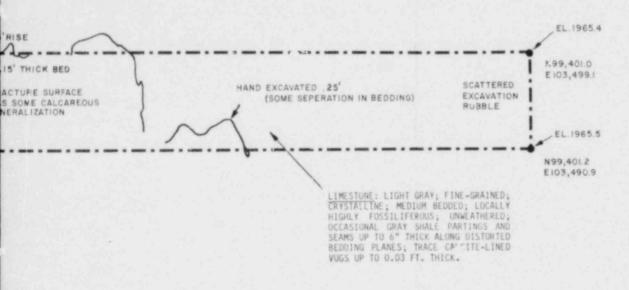
FEET





ULTI

- 1. ELEVATIONS AND COORDINATES REFER TO SNUPPS DATUM.
- 2. SEE FIGURE 9 FOR LOCATION.
 3. SEE FIGURE 2 FOR / EXPLANATION OF SYMBOLS USED / MAPPING.
- 4. POINTS E & F REFER TO MEASUREMENT LOCATIONS.



MATE HEAT SINK

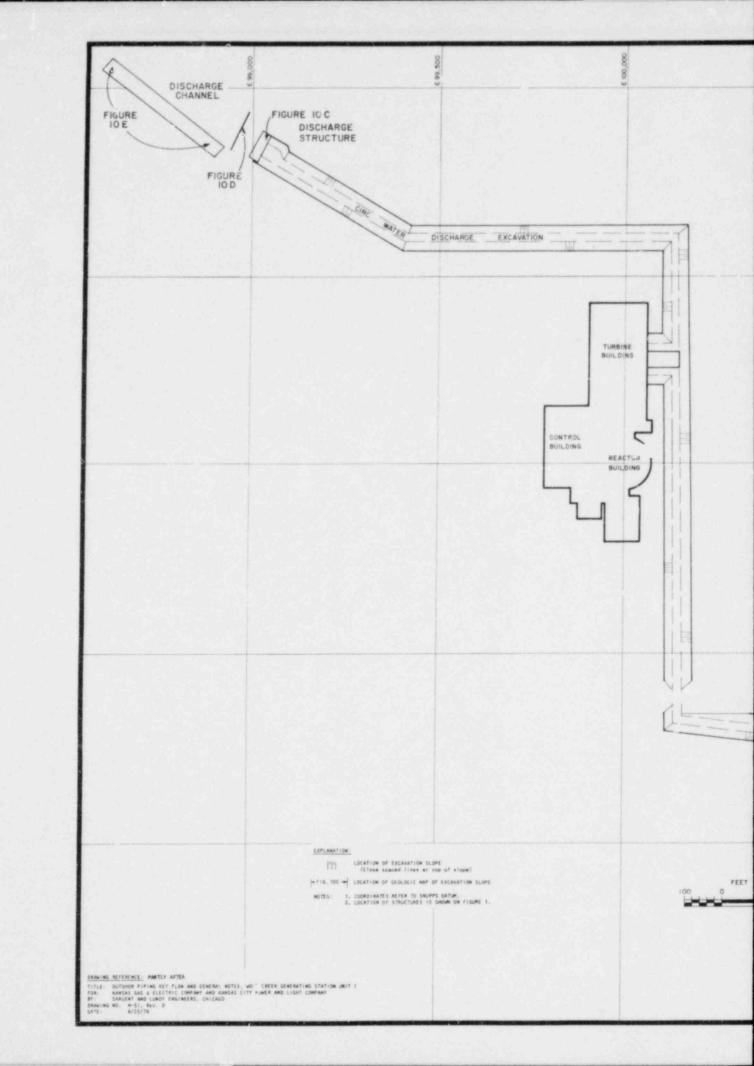
WOLF CREEK GENERATING STATION UNIT NO. 1

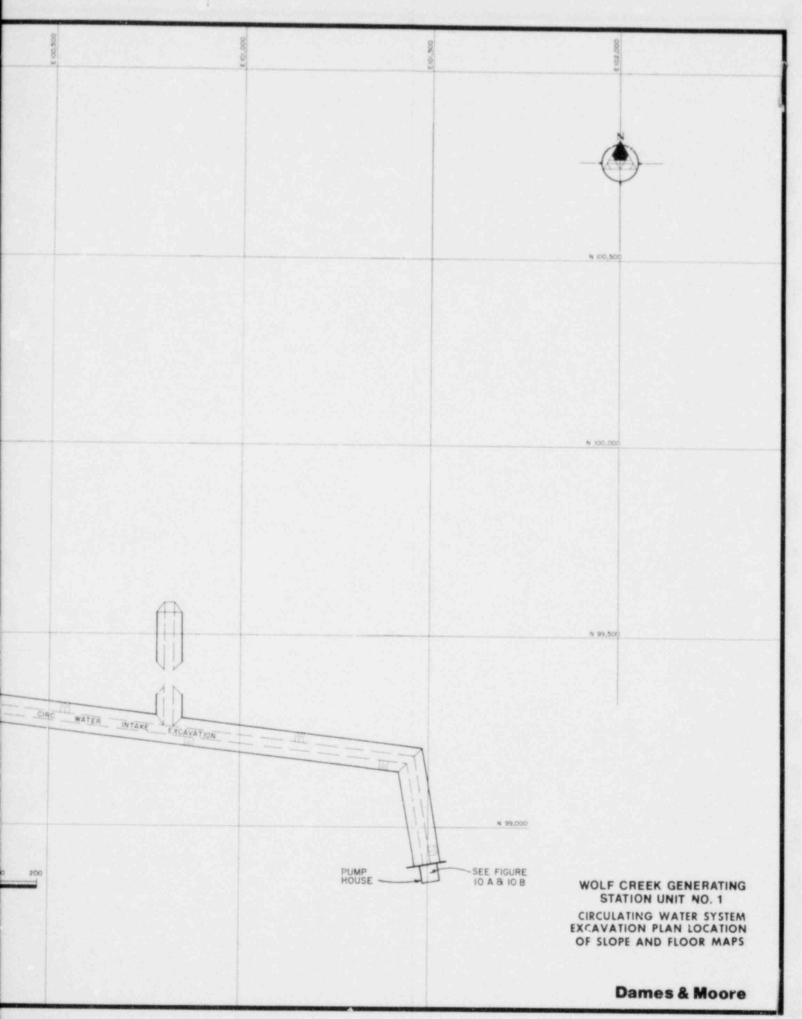
DETAIL MAP
"POP-UP" TYPE FEATURE
ULTIMATE HEAT SINK
POND FLOOR

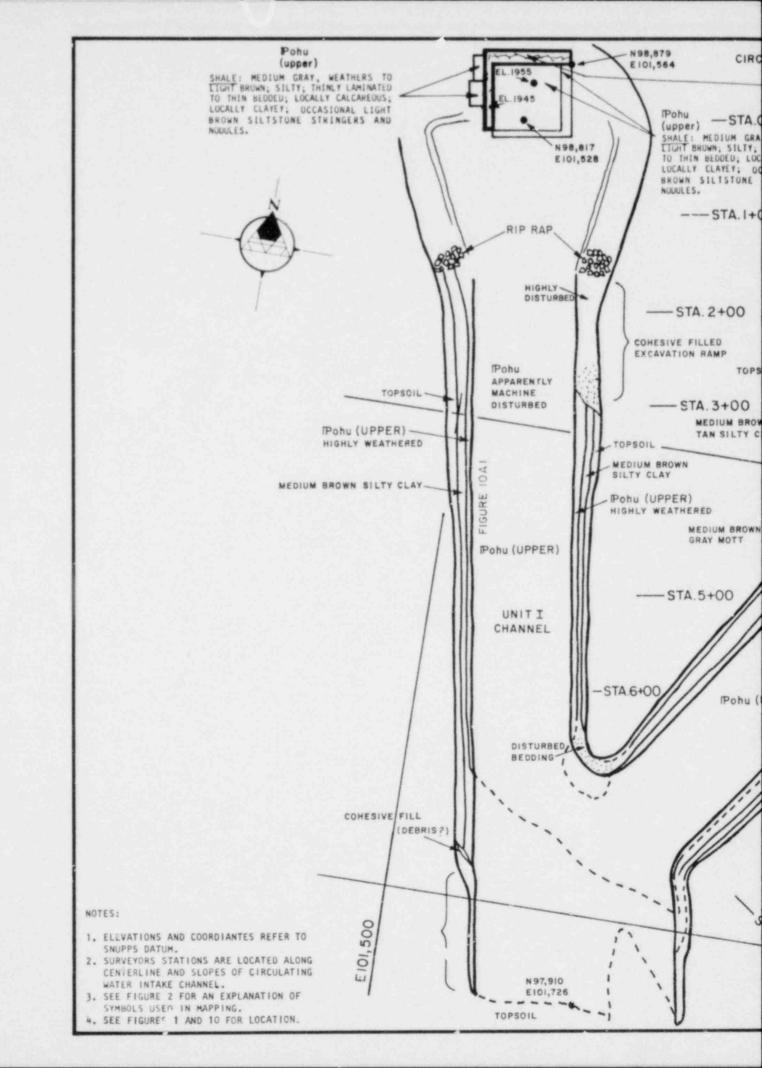
0 10

FEET

DAMES A MOORS









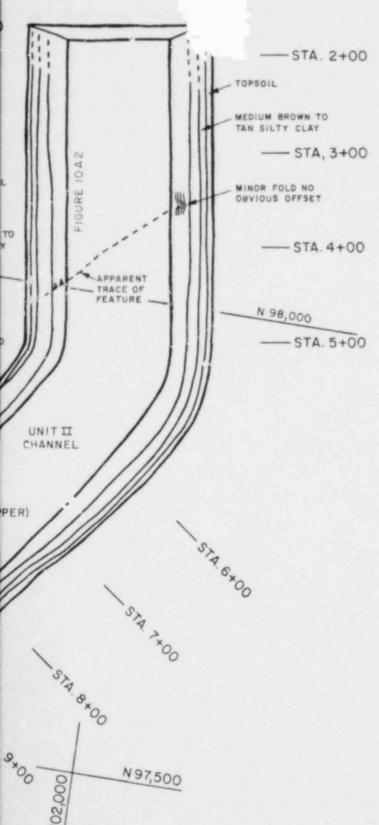
POP
WEATHERING ALONG BEDDING
PLANES AND NUMEROUS TIGHT
UNWEATHERED JOINTS NOTED

Pop

LIMESTONE: LIGHT GRAY; FINE-GRAINED; CRYSTALLINE; MEDIUM BEDDED; LOCALLY HIGHLY FOSSILIFEROUS; UNMEATHERED; OCCASIONAL GRAY SHALE PARTINGS AND SEATS UP TO 6" THICK ALONG DISTORTED PLANES; TRACE CALCITE-LINED TO 0.03 FT. THICK.

WEATHERS TO INLY LAMINATED LY CALCAREOUS; SIONAL LIGHT KINGERS AND

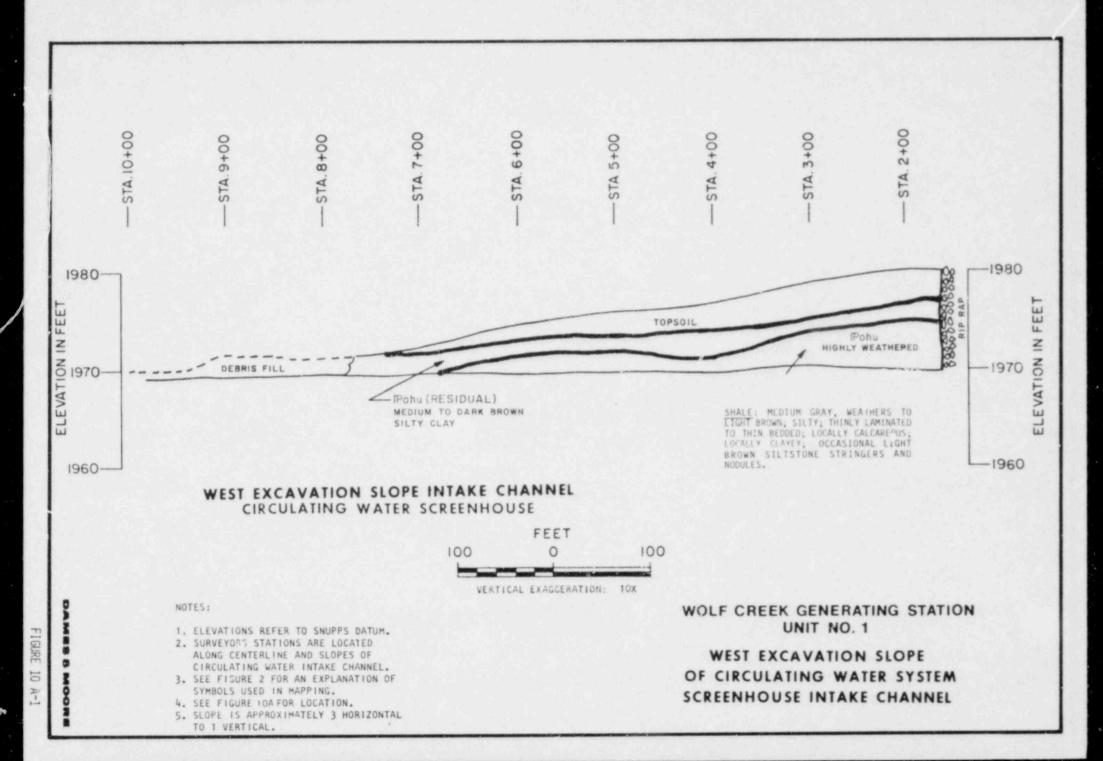
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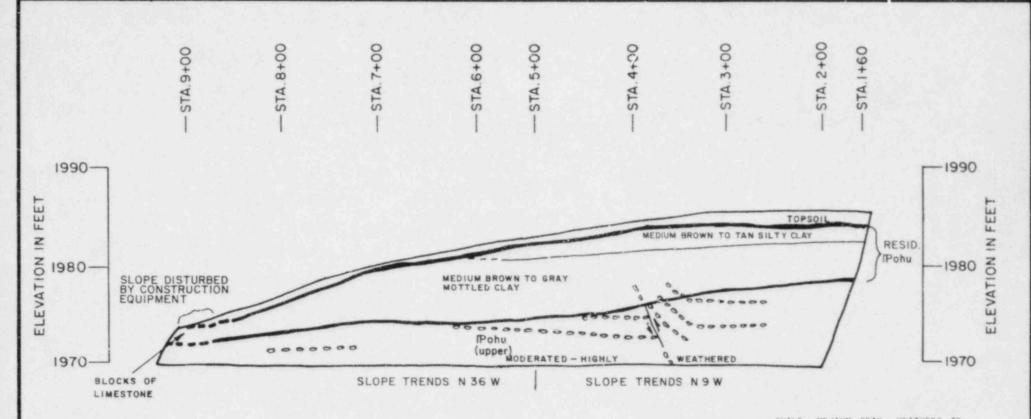


WOLF CREEK GENERATING STATION UNIT NO. 1

CIRCULATING WATER SYSTEM SCREENHOUSE INTAKE CHANNELS







WEST EXCAVATION SLOPE INTAKE CHANNEL - UNIT 2 CIRCULATING WATER SCREENHOUSE

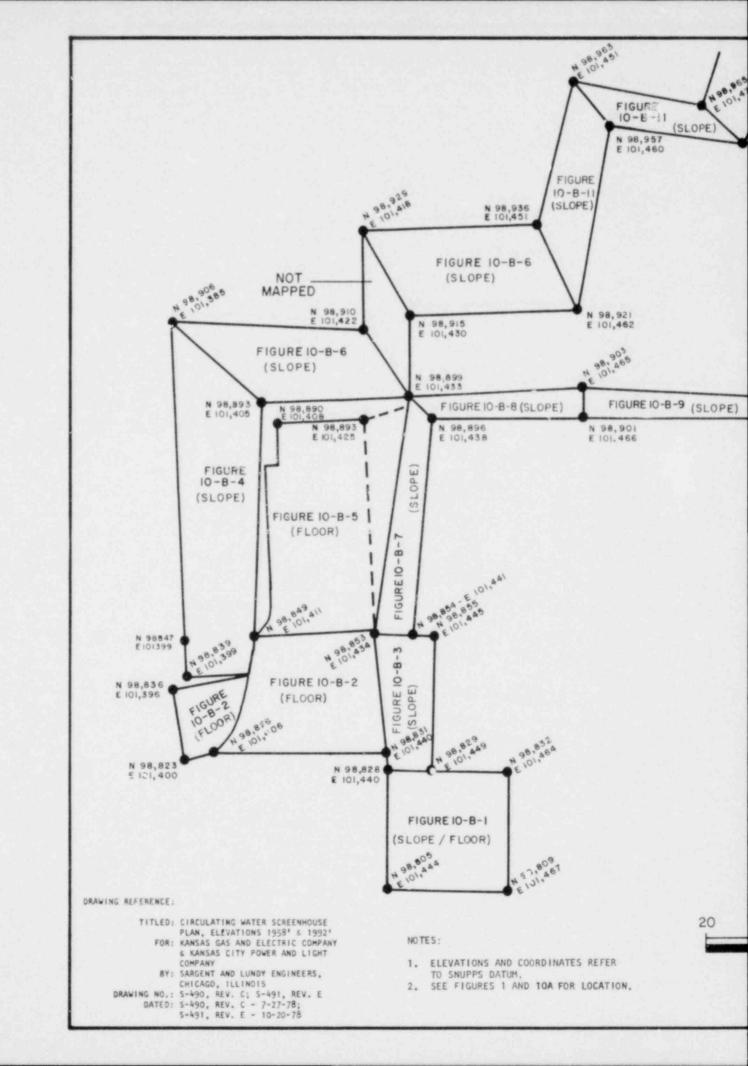
SHALE: MEDIUM GRAY, WEATHERS TO LIGHT BROWN; SILTY: THINLY LAMINATED TO THIN BEDDED; LOCALLY CALCAREOUS-LOCALLY CLAYEY; OCCASIONAL LIGHT BROWN SILTSTONE STRINGERS AND NODUL.'S.

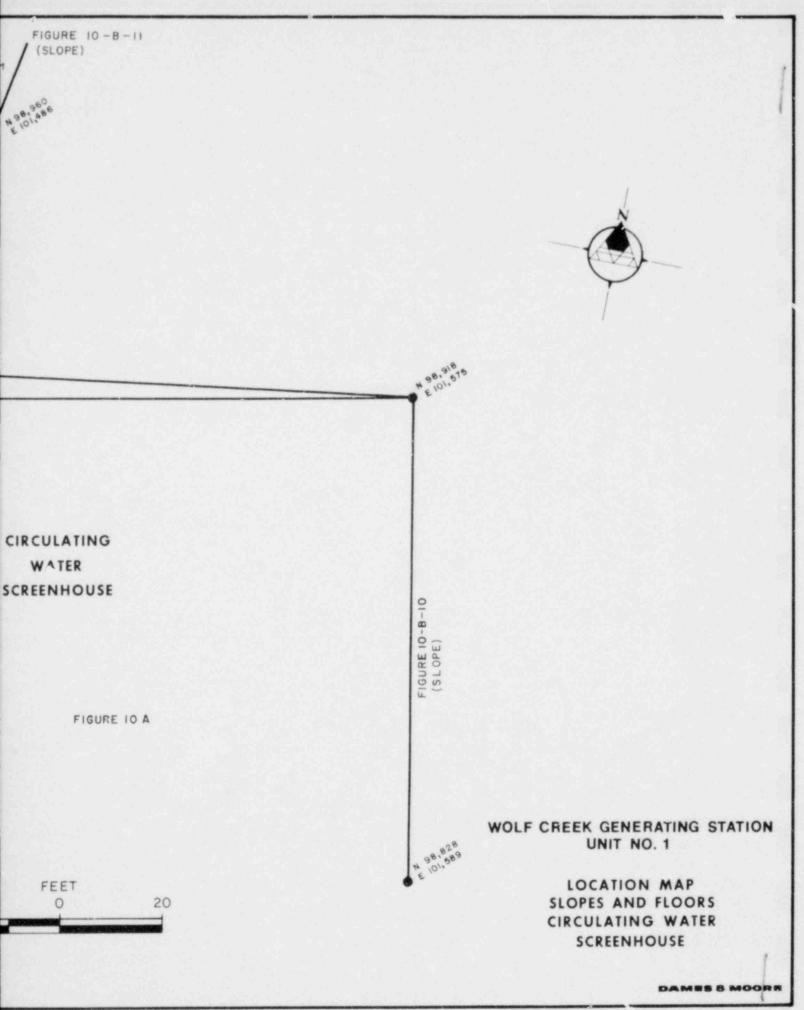
NOTES:

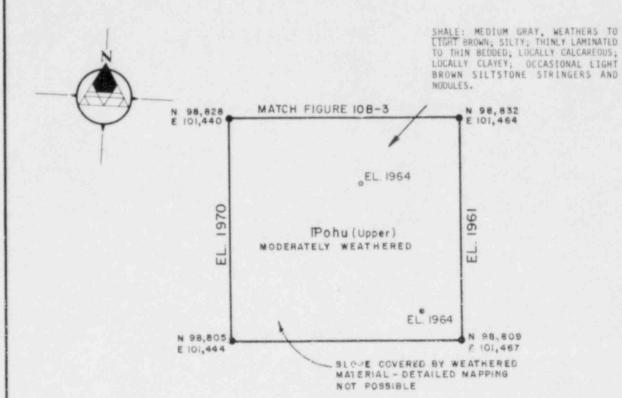
- 1. ELEVATIONS REFER TO SNUPPS DATUM.
- SURVEYORS STATIONS ARE LOCATED ALONG CENTERLINE AND SLOPES OF CIRCULATING WAYER INTAKE CHANNEL.
- SEE FIGURE 2 FOR AN EXPLANATION OF SYMBOLS USED IN MAPPING.
- 4. SEE FIGURE 10A FOR LOCATION.
- 5. SLOPE IS APPROXIMATELY 3 HORIZONTAL TO 1 VERTICAL.



WOLF CREEK GENERATING STATION
UNIT NO. 1
WEST EXCAVATION SLOPE OF
CIRCULATING WATER SYSTEM
UNIT 2-SCREENHOUSE
INTAKE CHANNEL







FLOOR PORTION OF WEST EXCAVATION SLOPE CIRCULATING WATER SCREENHOUSE

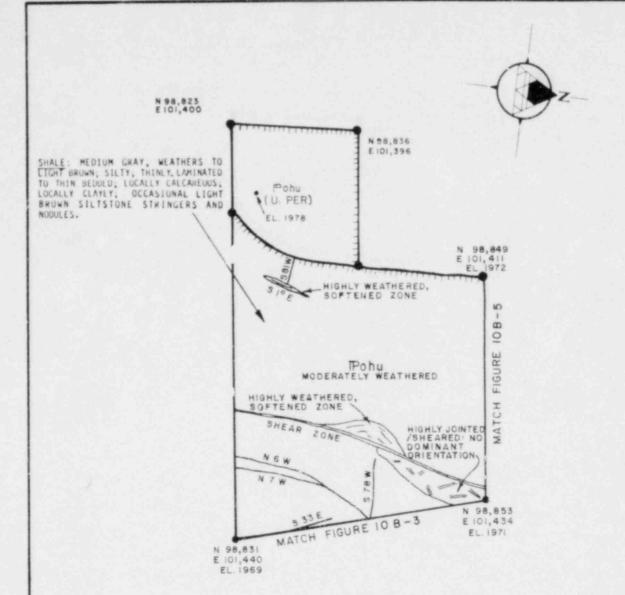


WOLF CREEK GENERATING STATION UNIT NO. 1

NOTES:

- ELEVATIONS AND COORDINATES REFER TO SNUPPS DATUM.
- 2. SEE FIGURE 2 FOR AN EXPLANATION OF SYMBOLS USED IN MAPPING.
- 3. SEE FIGURE 10B FOR LOCATION.

FLOOR PORTION OF
WEST EXCAVATION SLOPE OF
CIRCULATING WATER SCREENHOUSE



PART OF WEST FOUNDATION EXCAVATION CIRCULATING WATER SCREENHOUSE



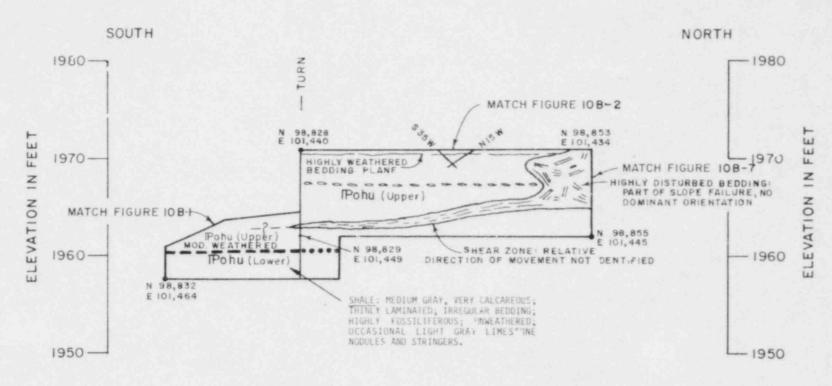
WOLF CREEK GENER, TING STATION UNIT NO. 1

PARTS OF WEST EXCAVATION SLOPE CIRCULATING WATER SCREENHOUSE

AN EXPLANATION OF

NOTES:

- 1. ELEVATIONS AND COORDINATES REFER TO SNUPPS DATUM.
- SEE FIGURE 2 FOR AN EXPLANATION OF SYMBOLS USED IN MAPPING.
- 3. SEE FIGURE 108 FOR LOCATION.



PART OF WEST EXCAVATION SLOPE OF CIRCULATING WATER SCREENHOUSE

WOLF CREEK GENERATING STATION UNIT NO. 1

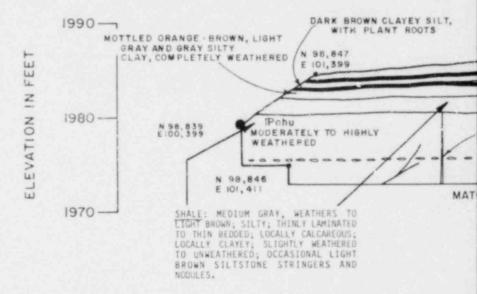
NOTES:

- ELEVATIONS AND COORDINATES REFER TO SNUPPS DATUM.
- SEE FIGURE 2 FOR AN EXPLANATION OF SYMBOLS USED IN MAPPING.
- 3. SEE FIGURE 108 FOR LOCATION.



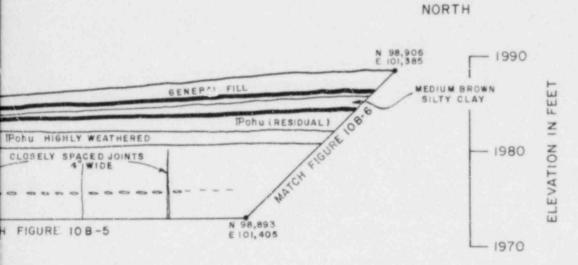
PART OF
WEST EXCAVATION SLOPE OF
CIRCULATING WATER SCREENHOUSE
FROM N98,832; E101,464 TO
N98,855; E101,445

SOUTH



PART OF UPP CIRCULAT

- 1. ELEVATIONS AND COORDINA) REFER TO SNUPPS DATUM.
- SEE FIGURE 2 FOR AN EXPLANATION OF SYMBOLS USED IN MAPPING.
 SEE FIGURE 108 FOR LOCATION.
- 4. SLOPE IS APPROXIMATELY 1 HORIZONTAL TO 1 VERTICAL.

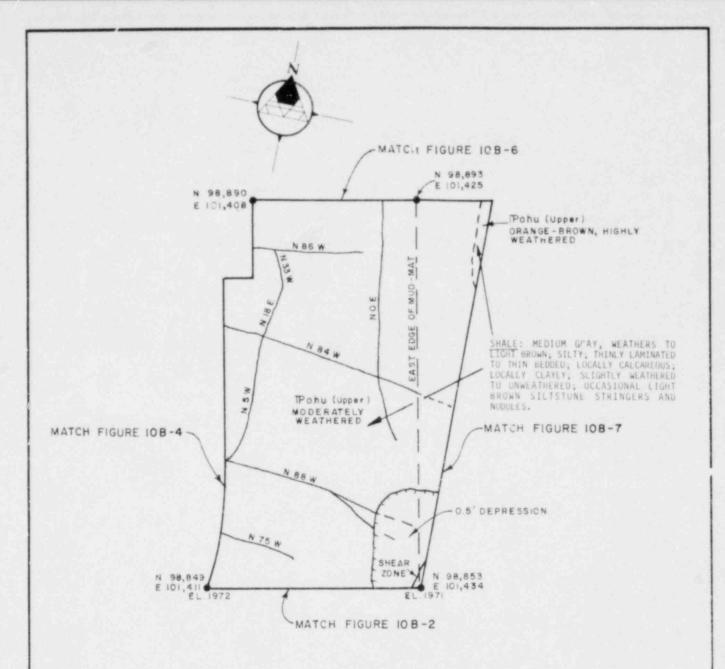


R WEST EXCAVATION SLOPE NG WATER SCREENHOUSE

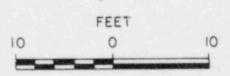
> WOLF CREEK GENERATING STATION UNIT NO. 1

PART OF UPPER WEST
EXCAVATION SLOPE
CIRCULATING WATER SYSTEM
SCREENHOUSE
FROM N98,846; E101,411
TO N98,893; E101,405
Dames & Moore

FEET 0 10



PART OF WEST FOUNDATION EXCAVATION CIRCULATING WATER SCREENHOUSE

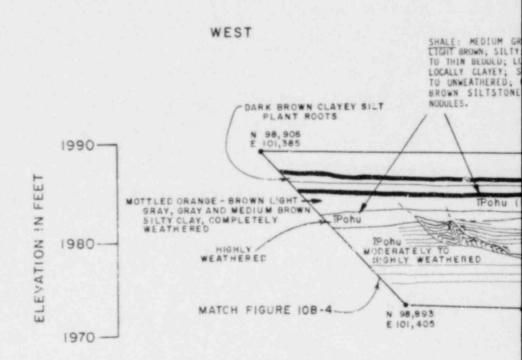


WOLF CREEK GENERATING STATION UNIT NO. 1

NOTES:

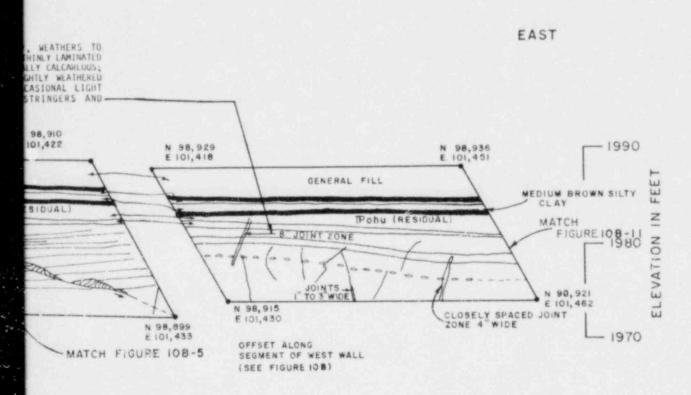
- 1. ELEVATIONS AND COORDINATES REFER TO SNUPPS DATUM.
- 2. SEE FIGURE 2 FOR AN EXPLANATION OF SYMBOLS USED IN MAPPING.
- 3. SEE FIGURE 10B FOR LOCATION.

PART OF WEST FOUNDATION EXCAVATION CIRCULATING WATER SCREENHOUSE



PART OF UPPER CIRCULATIN

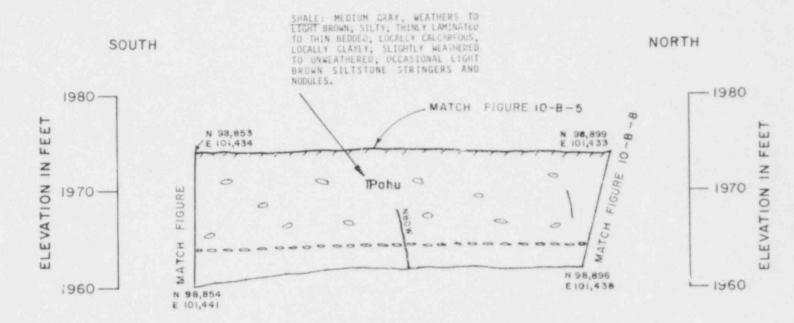
- 1. ELEVATIONS AND COORDINATES REFER TO SNUPPS DATUM.
- 2. SEE FIGURE 2 FOR AN EXPLANATION OF SYMBOLS USED IN MAPPING.
 3. SEE FIGURE 10B FOR LOCATION.
- SLOPE IS APPROXIMATELY 1 HORIZONTAL TO 1 VERTICAL.



NORTH EXCAVATION SLOPE G WATER SCREENHOUSE

> WOLF CREEK GENERATING STATION UNIT NO. 1

PART OF UPPER, NORTH EXCAVATION SLOPE CIRCULATING WATER SCREENHOUSE FROM N98,893; E101,405 TO N98,899; E101,433 FROM N98,915; E101,430 YO N98,921; E101,462



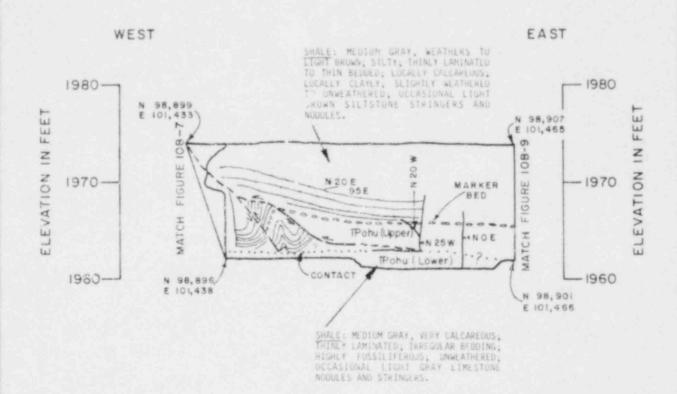
PART OF LOWER WEST EXCAVATION SLOPE CIRCULATING WATER SCREENHOUSE

WOLF CREEK GENERATING STATION UNIT NO. 1

PART OF
LOWER WEST EXCAVATION SLOPE
OF CIRCULATING WATER SCREENHOUSE
FROM N98,854; E101,441 TO
N98,896; E101,438

- ELEVATIONS AND COORDINATES REFER TO SNUPPS DATUM.
- SEE FIGURE 2 FOR AN EXPLANATION OF SYMBOLS USED IN MAPPING.
- 3. SEE FIGURE 108 FOR LOCATION.





PART OF NORTH EXCAVATION SLOPE CIRCULATING WATER SCREENHOUSE



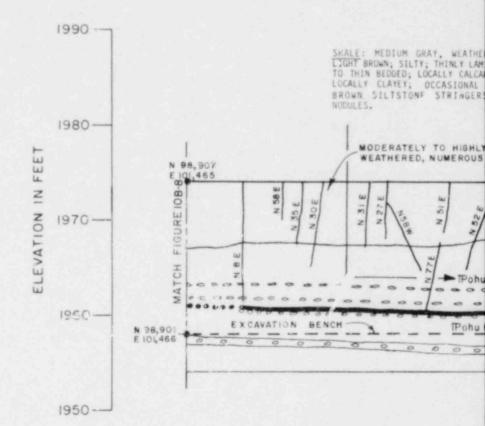
NOTES:

- 1. ELEVATIONS AND COORDINATES REFER TO SNUPPS DATUM.
- SEE FIGURE 2 FOR EXPLANATION OF SYMBOLS USED IN MAPPING.
- 3. SEE FIGURE 108 FOR LOCATION.
- SLOPE IS APPROXIMATELY 1 HORIZONTAL TO 2 VERTICAL.

WOLF CREEK GENERATING STATION UNIT NO. 1

PART OF NORTH EXCAVATION SLOPE CIRCULATING WATER SCREENHOUSE FROM N98,896; E101,438 TO N98,901; E101,466

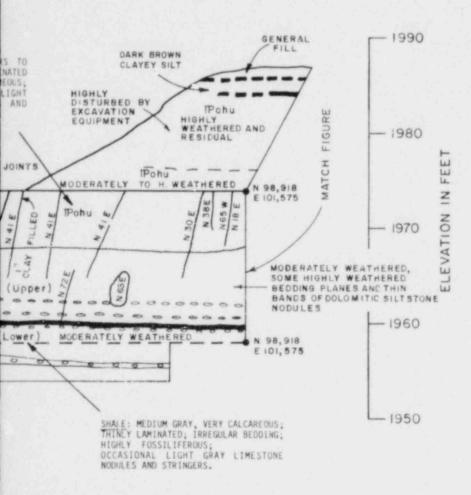
WEST



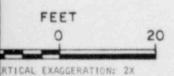
PART OF N FROM N98,901; CIRCULATIF

- 1. ELEVATIONS AND COORDINATES REFER TO SNUPPS DATUM,
- 2. SEE FIGURE 2 FOR AN EXPLANATION OF SYMBOLS USED IN MAPPING.
 3. SEE FIGURE 10B FOR LOCATION.
 4. SLOPE 1S APPROXIMATELY VERTICAL.

EAST



ORTH EXCAVATION SLOPE E101,466 TO N98,918; E101,575 IG WATER SCREENHOUSE



WOLF CREEK GENERATING STATION UNIT NO. 1

PART OF NORTH EXCAVATION SLOPE CIRCULATING WATER SCREENHOUSE FROM N98,901; E101,466 TO N98,918; E101,575

SHALE: MEDIUM GRAY, WEATHER LIGHT BROWN; SILTY; THINLY LAM TO THIN BEDDED; LOCALLY CALCAL LOCALLY CLAYEY; OCCASIONAL BROWN SILTSTONE STRINGERS NORTH NODULES. DARK BROWN CLAYEY SILT, WITH GENERAL FILL - IPohu (HIGHLY WE N98,918 45 E E101,575 MODERATELY TO HIGHLY z WEATHERED MODERATELY WEATHERED, —— WIND MEROUS HIGHLY WEATHERED OF BEUDING PLANES AND THIN BANDS OF DOLOMITIC SILTSTONE NODULES LE MODI N 98,918 E 101,575

> N98,828; E10 CIRCULATI

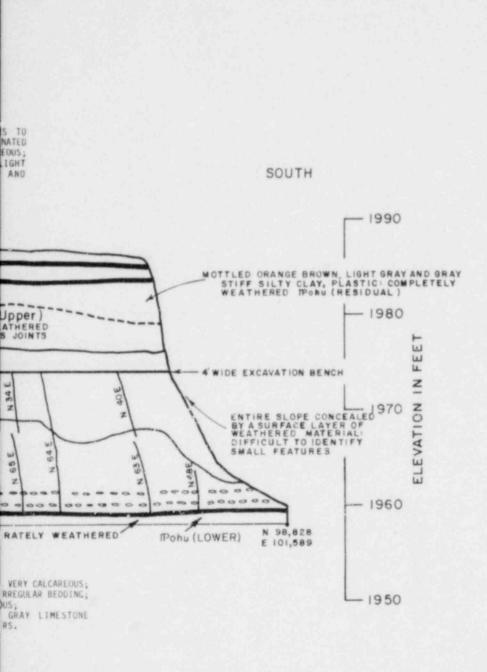
SHALE: MEDIUM GRAY THINLY LAMINATED; HIGHLY FOSSILIFER OCCASIONAL LIGHT NODULES AND STRING

NOTES:

- ELEVATIONS AND COORDINTES REFER TO SNUPPS DATUM.
- SEE FIGURE 2 FOR AN EXPLANATION OF SYMBOLS USED IN MAPPING.
- 3. SEE FIGURE 10B FOR LOCATION.
- 4. SLOPE BELOW BENCH IS APPROXIMATELY VERTICAL.

20

1



EXCAVATION SLOPE 1 589 TO N98,918; E101,575 NG WATER SCREENHOUSE

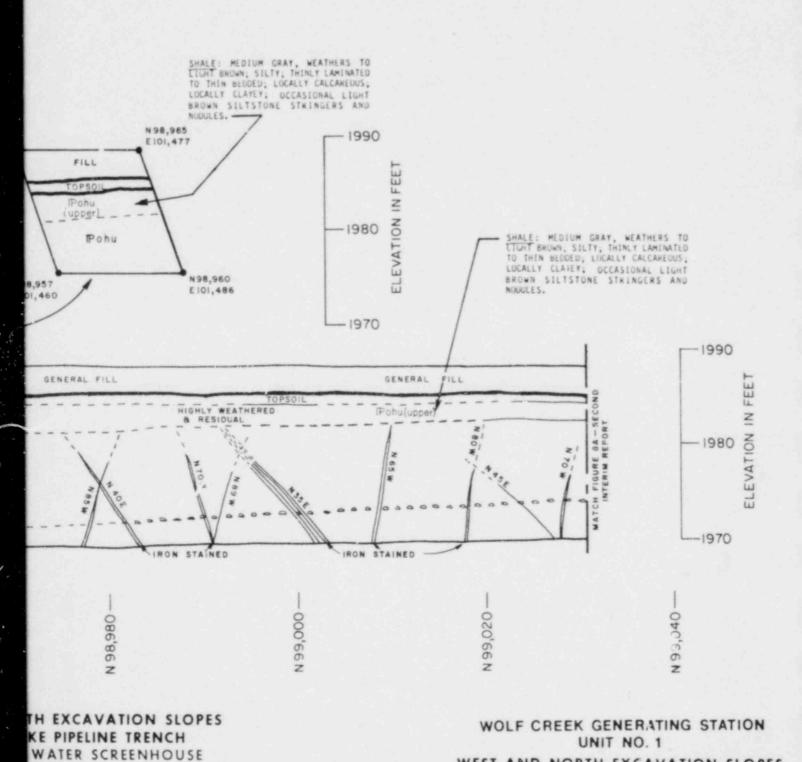
WOLF CREEK GENERATING STATION UNIT NO. 1

EAST EXCAVATION SLOPE CIRCULATING WATER SYSTEM SCREEN HOUSE FROM N98,828; E101,589 TO N98,918; E101,575



Dames & Moore

1. ELEVATIONS AND COORDIANTES REFER
TO SNUPPS DATUM.
2. SEE FIGURE 2 FOR AN EXPLANATION
OF SYMBOLS USED IN MAPPING.
3. SEE FIGURE 10B FOR LOCATION.
4. SLOPE OF APPROXIMATELY 2 HORIZONTAL NOTES: ELEVATION IN FEET 1970 1980 1990 SHALE: MEDIUM GRAY, WEATHERS TO LIGHT BHOWN, SILTY, THINLY LAMINATED TO THIN BELDED; LOCALLY CALCARDUS; LOCALLY CLAYEY; OCCASIONAL LIGHT BROWN SILTSTONE STRINGERS AND NOUNLES. N 98,920 -N98,921 Pohu (upper) N98,936 N98,940 -WEATHERED B RESIDUAL -GENERAL ELEVATION IN FEET FILL 1980 1990 1970 N98,957 START INT N98,963 N98,960 E101,486 N98,960 -To N 98,963 N98,965 Pohu



FEET

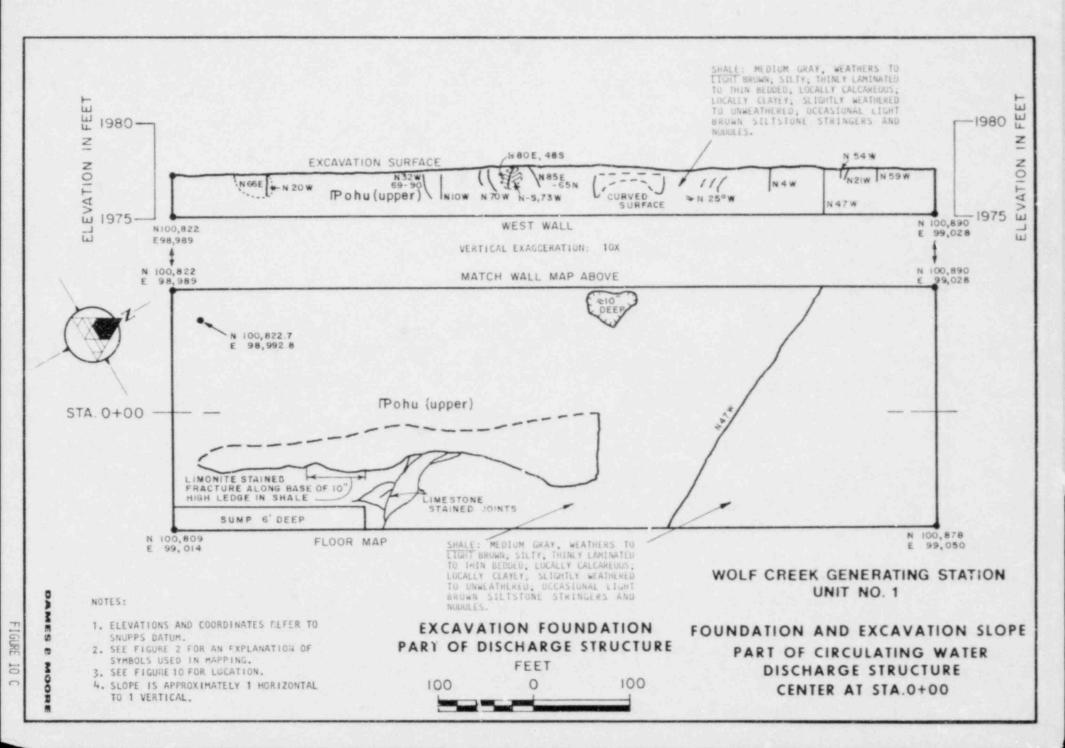
0

10

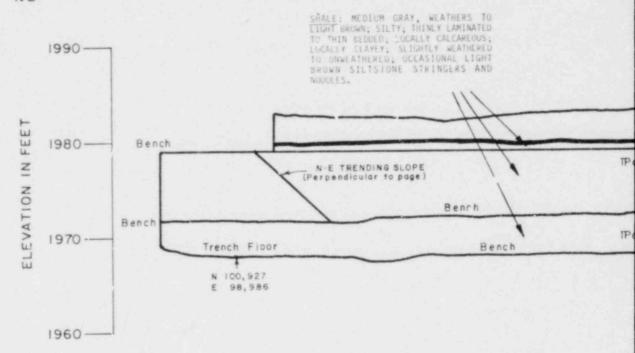
DAMES & MOCRE

WEST AND NORTH EXCAVATION SLOPES
BEGINNING OF CIRCULATING WATER (ENTAKE)
PIPELINE TRENCH FROM N98,921; E101,462

TO APPROX!MATE N99,030; E101,480



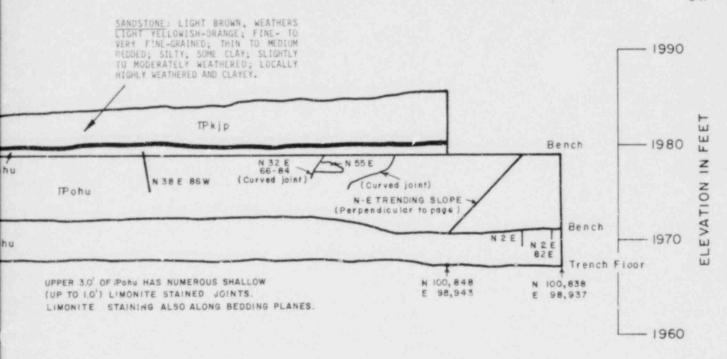
NE



PART OF TOE ALONG

- 1. ELEVATIONS AND COORDINATES REFER TO SNUPPS DATUM.
- 2. SEE FIGURE 2 FOR AN EXPLANATION OF SYMBOLS USED IN MAPPING.
- 3. SEE FIGURE 10 FOR LOCATION.
- 4. SLOPE IS APPROXIMATELY 1 HORIZONTAL TO 1 VERTICAL.





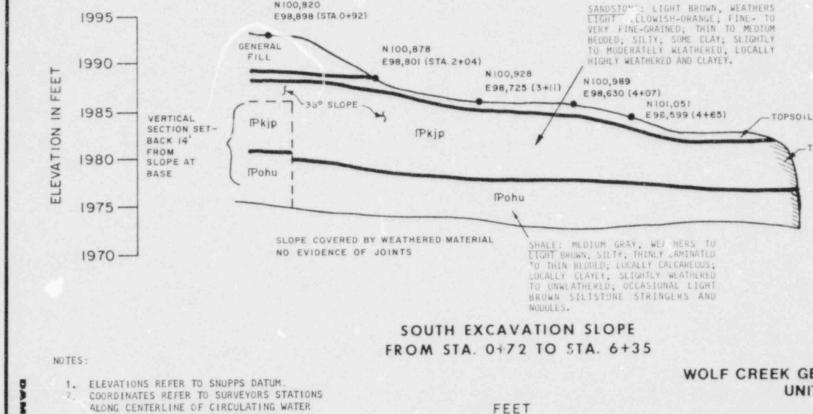
EXCAVATION SLOPE
DISCHARGE STRUCTURE
APPROXIMATELY STA. 0+67

WOLF CREEK GENERATING STATION UNIT NO. 1

EAST EXCAVATION SLOPE CIRCULATING WATER SYSTEM DISCHARGE STRUCTURE FROM N100,838; E98,937 TO N100,927; E98,986.



DAMES S MOORE



100

00+

N

TA

N100,920

DISCHARGE STRUCTURE AND CHANNEL.

3. SEE FIGURE 2 FOR AN EXPLANATION OF SYMBOLS USED IN MAPPING.

5. SLOPE IS APPROXIMATELY 3 HORIZONTAL

4. SEE FIGURE 10 FOR LOCATION.

TO 1 VERTICAL.

3+00

STA.

SOUTH WALL CIRCULATING WATER DISCHARGE CHANNEL

VERTICAL EXAGGERATION: 10X

WOLF CREEK GENERATING STATION UNIT NO. 1

TALUS

00+9

STA.

100

7+00

STA.

1995

1990

-1985

-1980

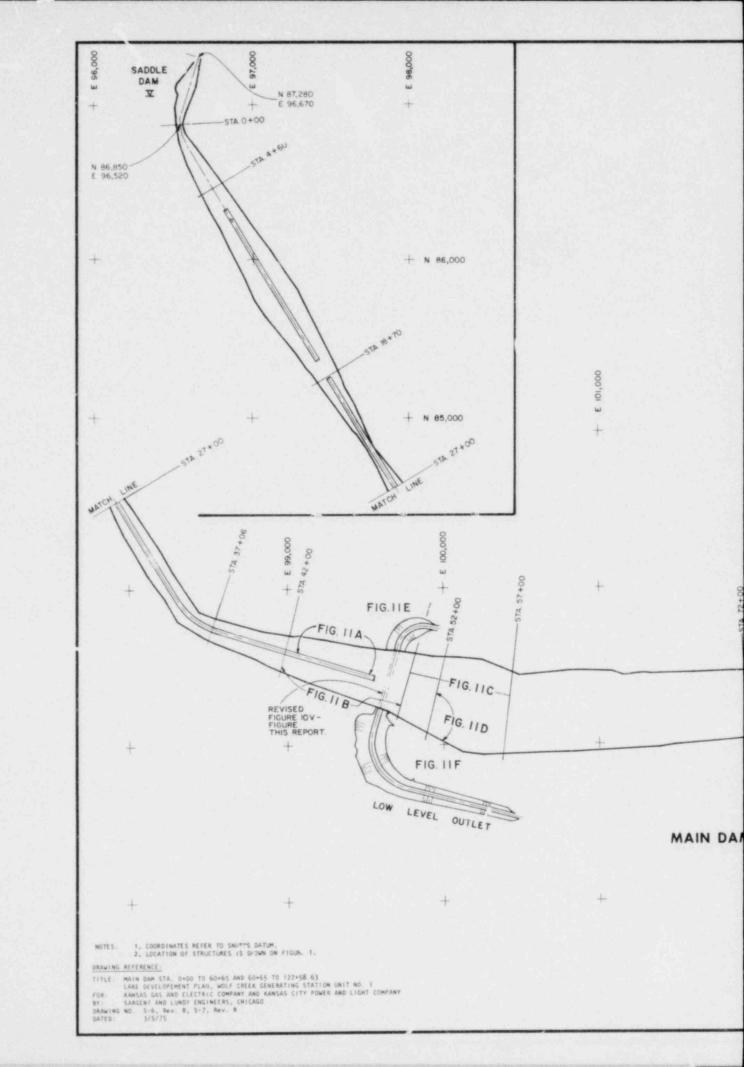
1975

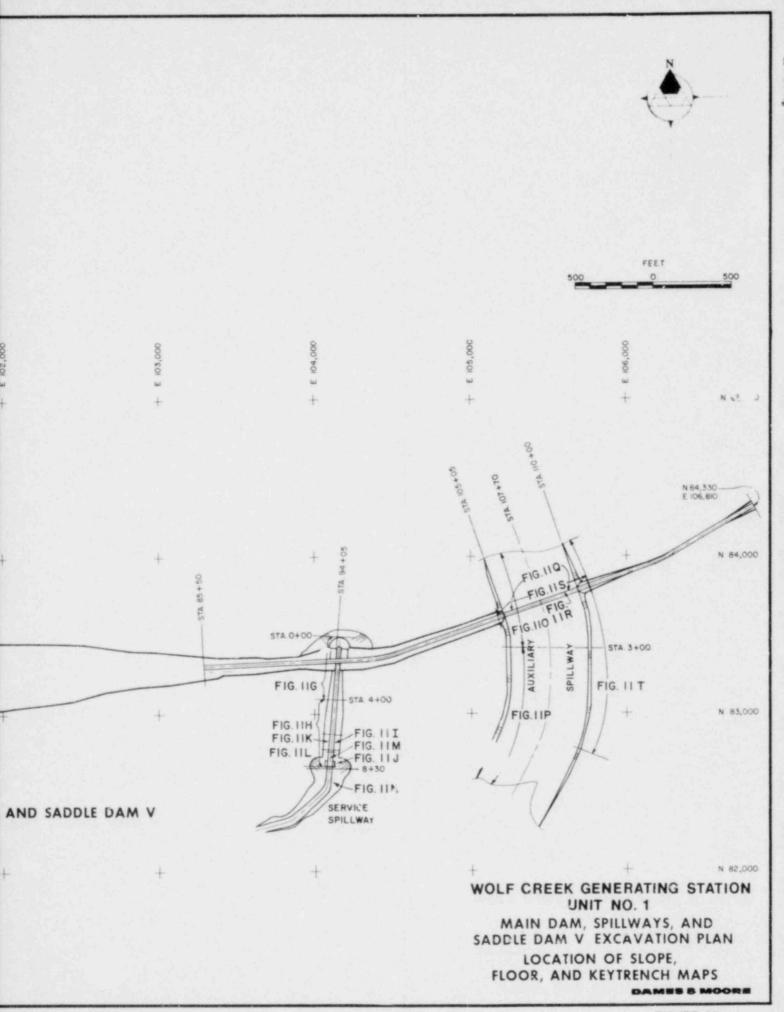
-1970

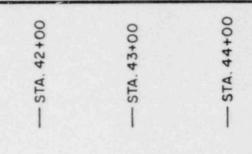
FEET

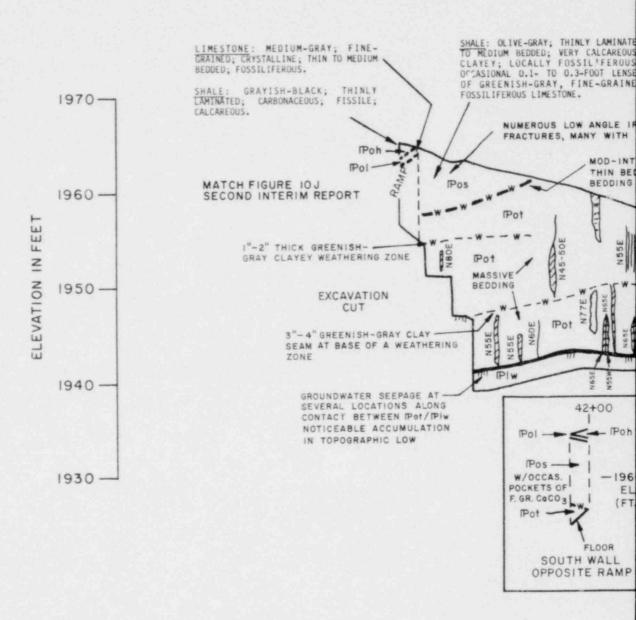
ELEVATION IN

SOUTH EXCAVATION SLOPE CIRCULATING WATER DISCHARGE CHANNEL M STA. 0+72 TO STA. 6+35









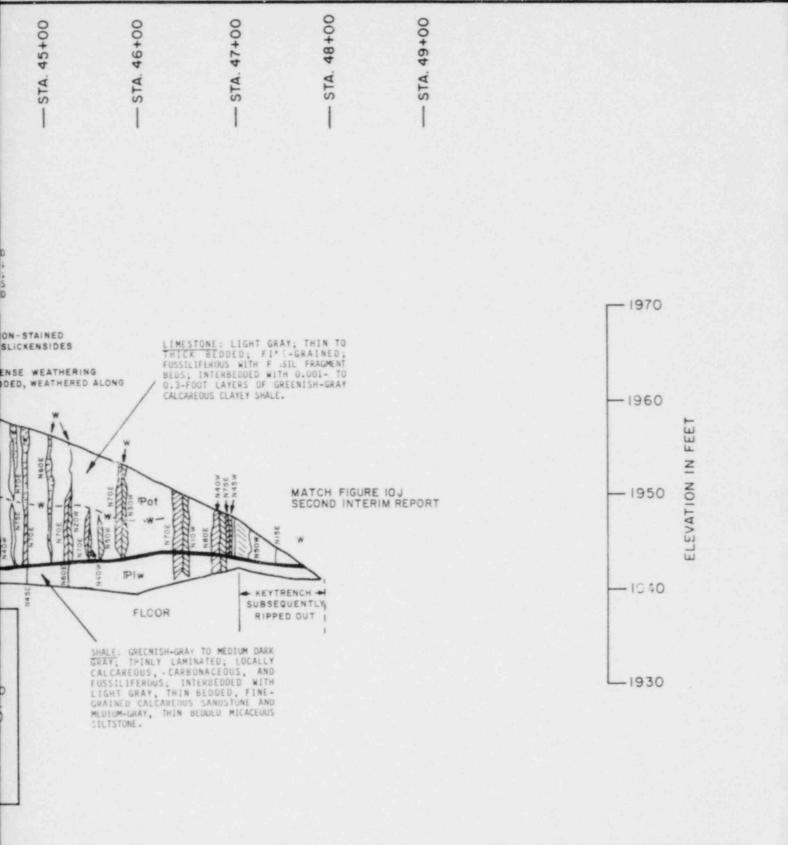
NOTES:

- 1. ELEVATIONS REFER TO SNUPPS DATUM.
- 2. COORDINATES REFER TO SURVEYORS STATIONS
 ALONG CENTER LINE OF MAIN DAM.
- SEE FIGURE 2 FOR AN EXPLANATION OF SYMBOLS USED IN MAPPING.
- 4. SEE FIGURE 11 FOR LOCATION OF SLOPES.
- 5. SLOPE IS APPROXIMATELY VERTICAL.

NORTH KEYTRENCH WA

100

VE



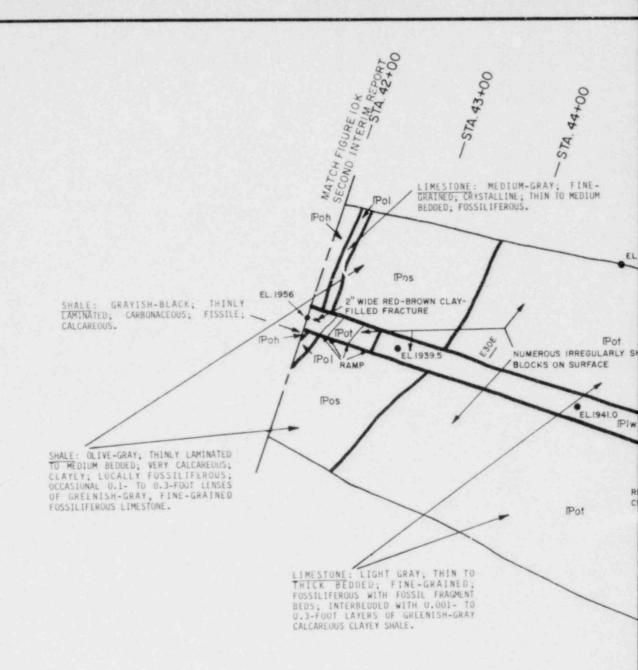
LL FROM STA. 42+00 TO STA. 47+90

FEET
O 100
TICAL EXAGGERATION: 10X

WOLF CREEK GENERATING STATION UNIT NO. 1

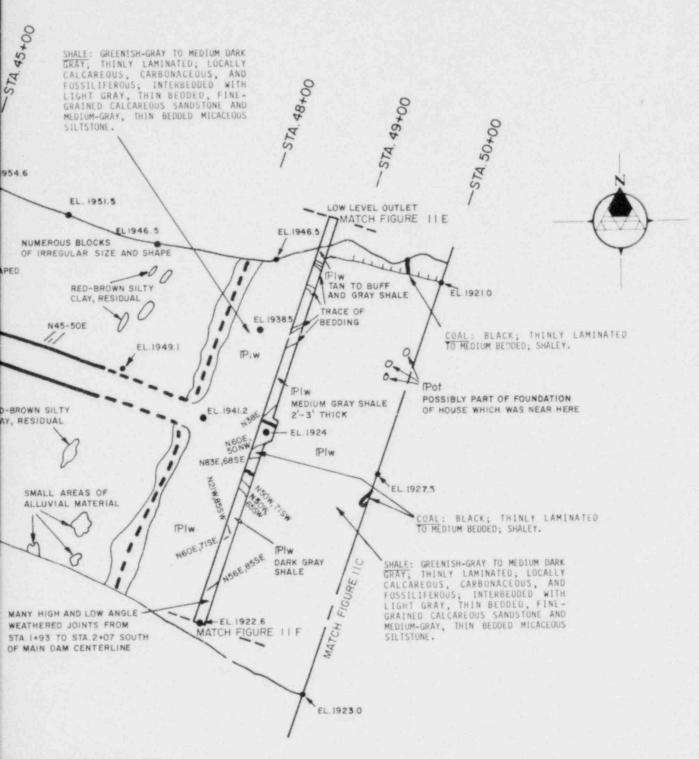
MAIN DAM FOUNDATION EXCAVATION FROM STA. 42+00 TO STA. 47+90

DAMES 8 MOORE



FROM STA

- 1. ELEVATIONS REFER TO SNUPPS DATUM.
- COORDINATES REFER TO SURVEYORS STATIONS ALONG CENTER LINE OF MAIN DAM.
- SEE FIGURE 2 FOR AN EXPLANATION OF SYMBOLS USED IN MAPPING.
- 4. SEE FIGURE 11 FOR LOCATION OF FLOORS,



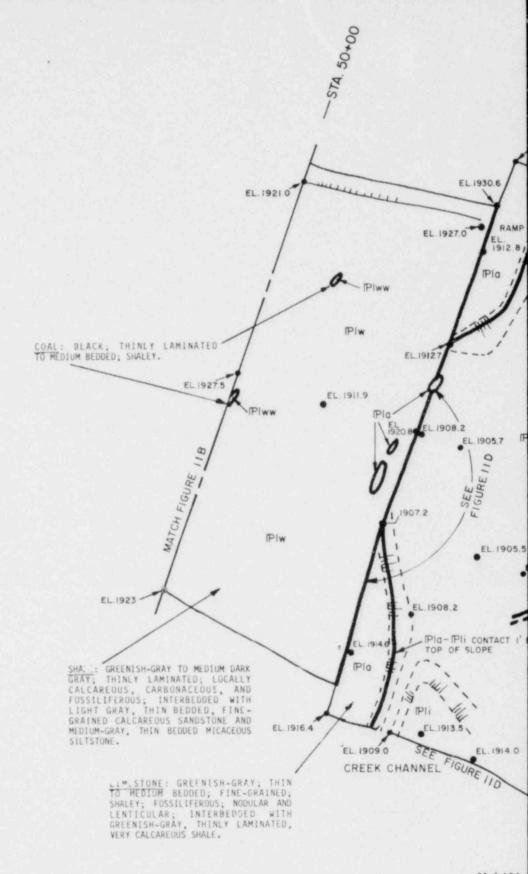
DAM FOUNDATION 42+00 TO STA. 50+00

WOLF CREEK GENERATING STATION UNIT NO. 1

FROM STA. 42+00 TO STA. 50+00

0 100

DAMES S MOORE



NOTES:

1. ELEVATIONS REFER TO SNUPPS DATUM.

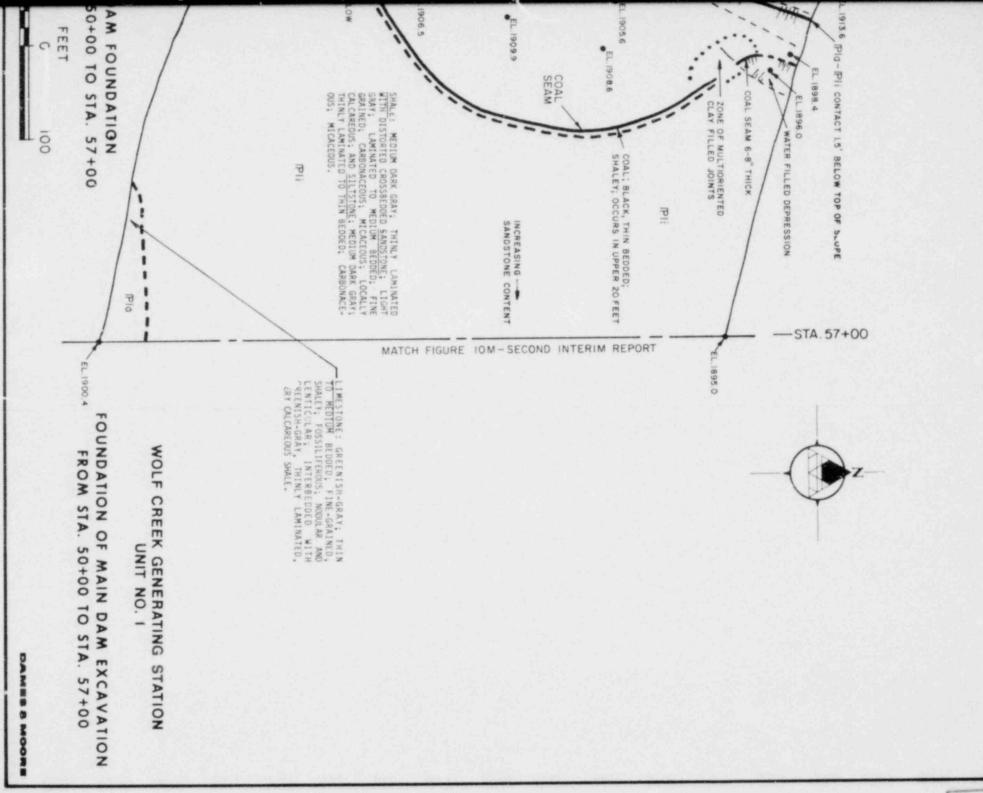
 COORDINATES REFER TO SURVEYORS STATIONS ALONG CENTER LINE OF MAIN DAM.

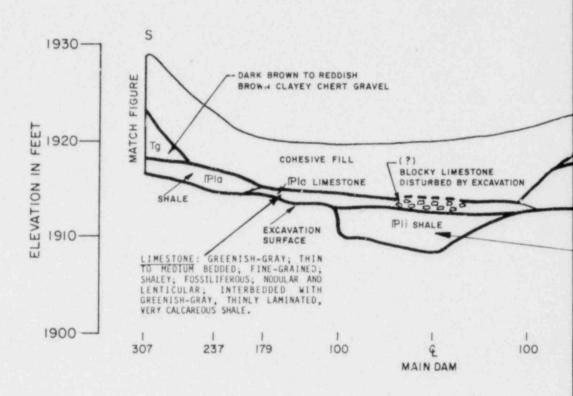
 SEE FIGURE 2 FOR AN EXPLANATION OF 5 COLS USED IN MAPPING.

4. SEE FIGURE 11 FOR LOCATION OF FLOURS.

FROM STA.

100





WEST EXCAVATION SLOPE ALONG STATION 52+00

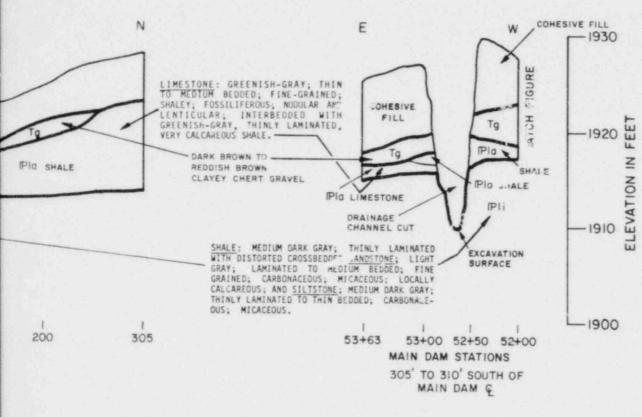
NOTES:

- 1. ELEVATIONS REFER T) SNUPPS DATUM.
- 2. COORDINATES REFER TO SURVEYORS STATIONS ALONG CENTER LINE CF MAIN DAM.
- SEE FIGURE 2 FOR AN EXPLANATION OF SYMBOLS USED IN APPING.
- 4. SEE FIGURE 11C FOR LUCATION OF SLOPES.
- SLOPE IS APPROXIMATELY 1 HORIZONTAL TO 1 VERTICAL.

MAIN

100

VE



SOUTH EXCAVATION SLOPE

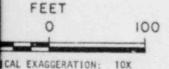
DAM EXCAVATION
OSURE SECTION

WOLF CREEK GENERATING STATION UNIT NO. 1

SOUTH AND WEST EXCAVATION SLOPES
MAIN DAM EXCAVATION

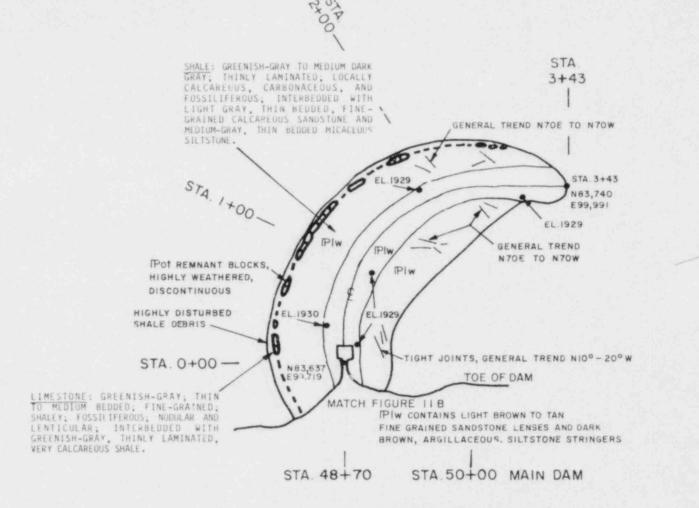
CLOSURE SECTION

FROM STA. 52+00 TO STA. 53+63



DAMES & MOORE



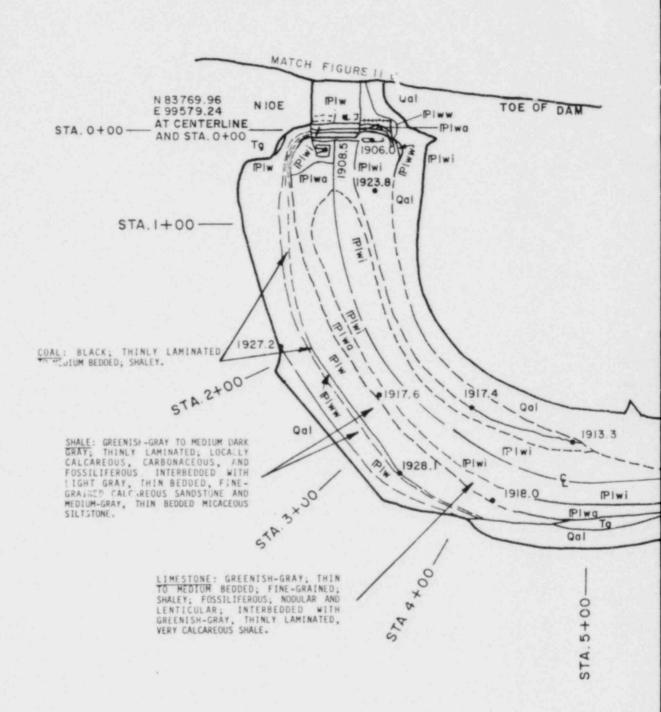


LOW LEVEL OUTLET INTAKE CHANNEL

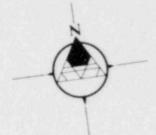
FEET 100 WOLF CREEK GENERATING STATION UNIT NO. 1

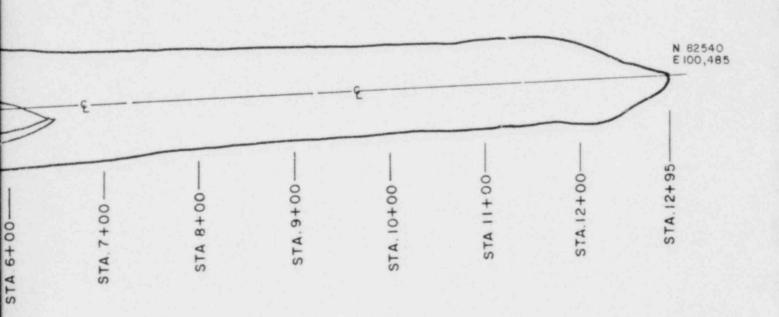
LOW LEVEL OUTLET INTAKE CHANNEL MAIN DAM STATION 48+7C

- 1. ELEVATIONS AND COORDINATES REFER TO SNUPPS DATUM.
- 2. COORDINATES REFER TO SURVEYORS STATIONS ALONG CENTER LINE OF LOW LEVEL OUTLET INTAKE CHANNEL.
- 3. SEE FIGURE 2 FOR AN EXPLANATION OF SYMBOLS USED IN MAPPING.
- 4. SEE FIGURE 11 FOR LOCATION.



- ELEVATIONS AND COORDINATES REFER TO SNUPPS DATUM.
- COORDINATES REFER TO SURVEYORS STATIONS ALONG CENTER LINE OF LOW LEVEL OUTLET INTAKE CHANNEL.
- SEE FIGURE 2 FOR AN EXPLANATION OF SYMBOLS USED IN MAPPING.
- 4. SEE FIGURE 11 FOR LOCATION.





WOLF CREEK GENERATING STATION UNIT NO. 1

> LOW LEVEL OUTLET DISCHARGE CHANNEL

> > DAMES & MOORE

MATCH FIGURE 11H - STA. 4+00 1958.8 1964.8 - STA. 3+50 TPot BEDDING FRACTURED ZONE 1964.2 - STA. 3+00 3-2' LEDGE - STA. 2+50 1968.0 1968.6

SERVICE S FROM ST

NOTES:

TO SNUPPS DATUM.

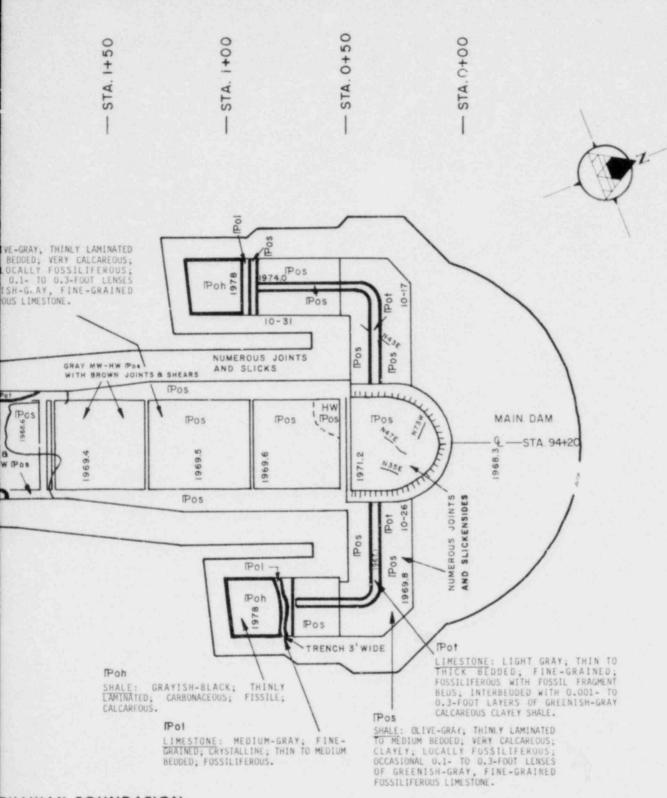
TO SNUPPS DATUM.

COORDINATES REFER TO SURVEYORS STATIONS ALONG CENTERLINE OF SERVICE SPILLWAY.

SEE FIGURE 2 FOR AN EXPLANATION OF SYMBOLS USED IN MAPPING.

SEE FIGURE 11 FOR LOCATION OF FLOORS.

- STA. 2+00



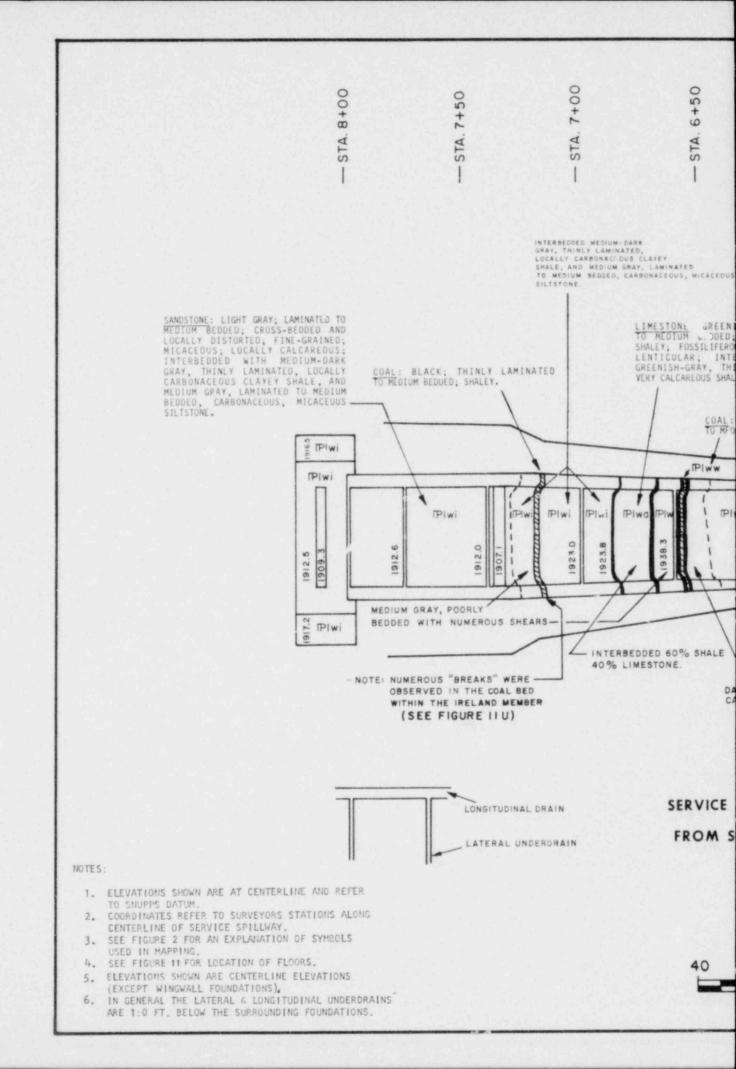
PILLWAY FOUNDATION A. 0+00 TO STA. 4+00

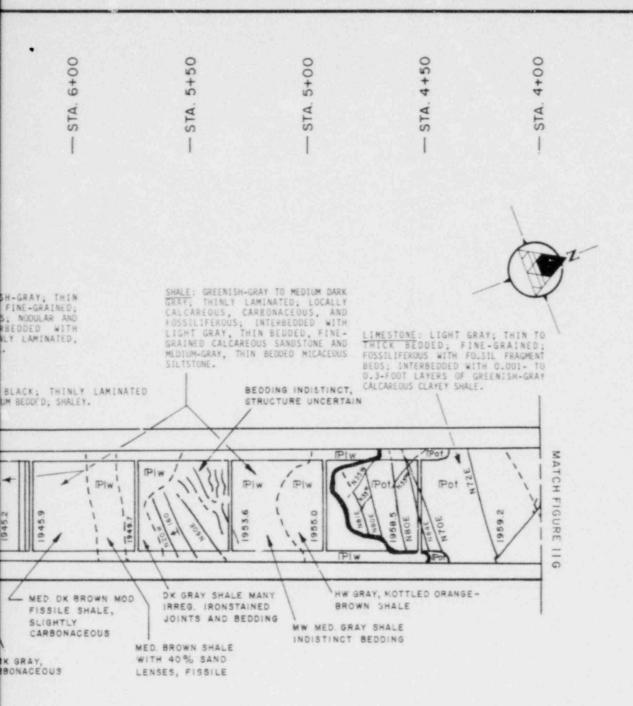
OLF CREEK GENERATING STATION UNIT NO. 1

FROM STA. 0+00 TO STA. 4+00

0 40

DAMES S MOORE





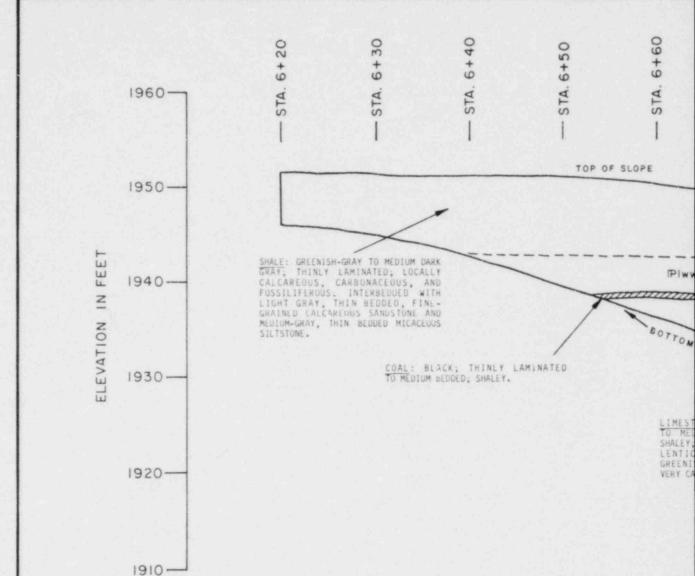
PILLWAY FOUNDATION

A. 4+00 TO STA. 8+20

WOLF CREEK GENERATING STATION UNIT NO. 1

SERVICE SPILLWAY FOUNDATION FROM STA. 4+00 TO STA. 8+20

DAMES S MOORE

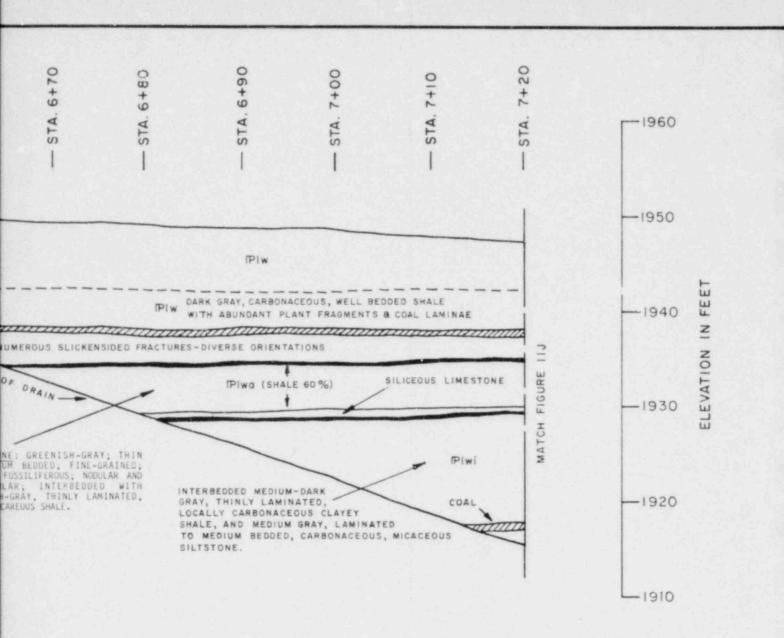


EAST FROM ST

1. ELEVATIONS REFER TO SNUPPS DATUM.
2. COORDINATES REFER TO SURVEYORS STATIONS ALONG CENTER LINE OF SERVICE SPILLWAY.
3. SEE FIGURE 2 FOR AN EXPLANATION OF SYMBOLS USED IN MAPPING.

SEE FIGURE 11 FOR LOCATION OF SLOPES.

SLOPE IS APPROXIMATELY 3 HORIZONTAL TO 1 VERFICAL.



EXCAVATION SLOPE A. 6+20 TO STA. 7+20

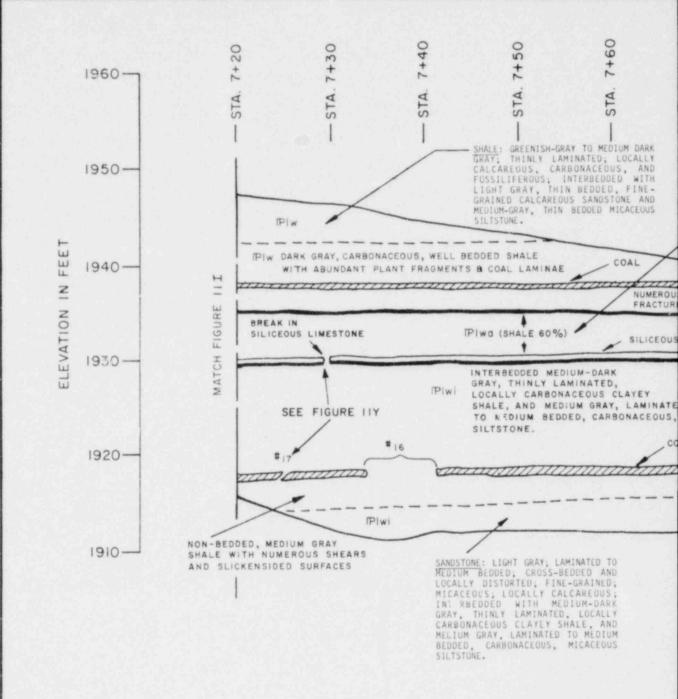


WOLF CREEK GENERATING STATION UNIT NO. 1

SERVICE SPILLWAY

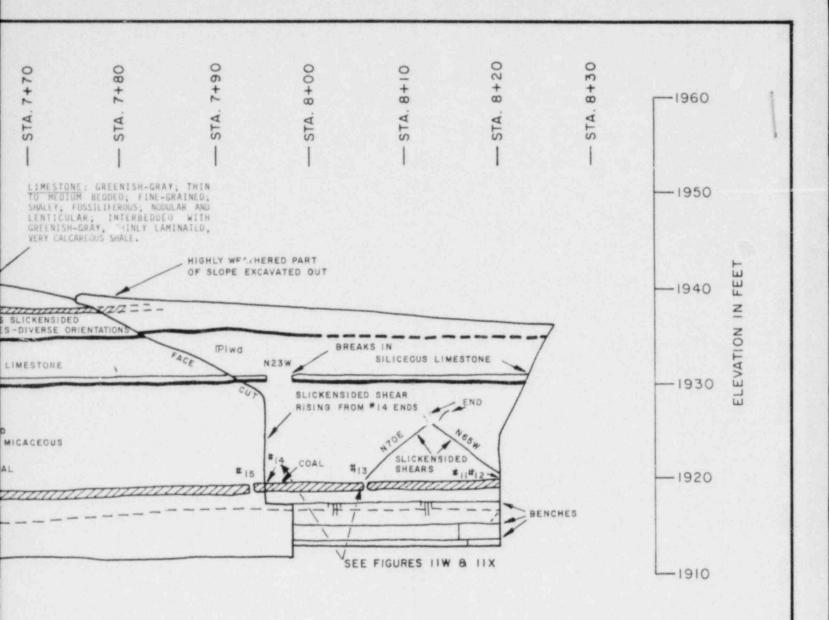
EAST EXCAVATION SLOPE
FROM STA. 6+20 TO STA. 7+20

DAMES S MOOR



FROM ST

- 1. ELEVATIONS REFER TO SNUPPS DATUM.
- COORDINATES REFER TO SURVEYORS STATIONS ALONG CENTER LINE OF SERVICE SPILLWAY.
- SEE FIGURE 2 FOR AN EXPLANATION OF SYMBOLS USED IN MAPPING.
- 4. SEE FIGURE 11 FOR LOCATION OF SLOPES.
- 5. SLOPE IS APPROXIMATELY 3 HORIZONTAL TO 1 VERTICAL.
- 5. #17, #16, ETC. DENOTES BREAKS IN THE COAL BED WITHIN THE IRELAND SANDSTONE MEMBER.



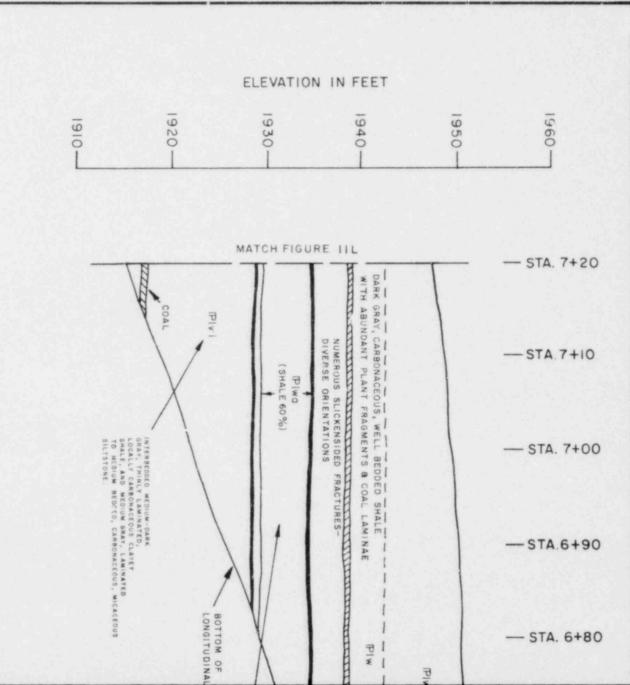
EXCAVATION SLOPE A. 7+20 TO STA. 8+20

> WOLF CREEK GENERATING STATION UNIT NO. 1

> > SERVICE SPILLWAY EAST EXCAVATION SLOPE FROM STA. 7+20 TO STA. 8+20



DAMES S MOORE



NOTES:

North House

ELEVATIONS REFER TO SNUPPS DATUM.

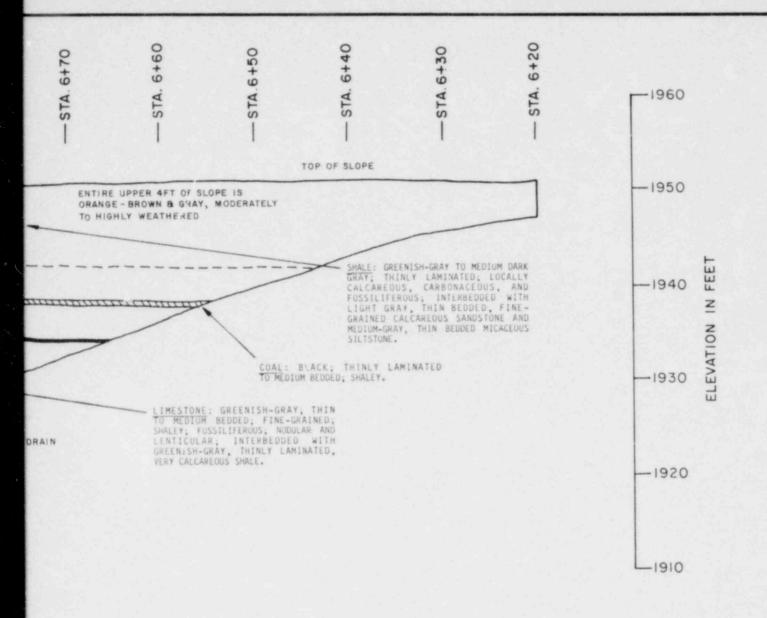
COORDINATES REFER TO SURVEYORS STATIONS ALONG
CENTER LINE OF SERVICE SPILLWAY.

SEE FIGURE 2 FOR AN EXPLANATION OF SYMBOLS
USED IN MAPPING.

SEE FIGURE 11 FOR LOCATION OF SLOPES.

SLOPE IS APPROXIMATELY 3 HORIZONTAL TO 1 VERTICAL.

WEST FROM ST



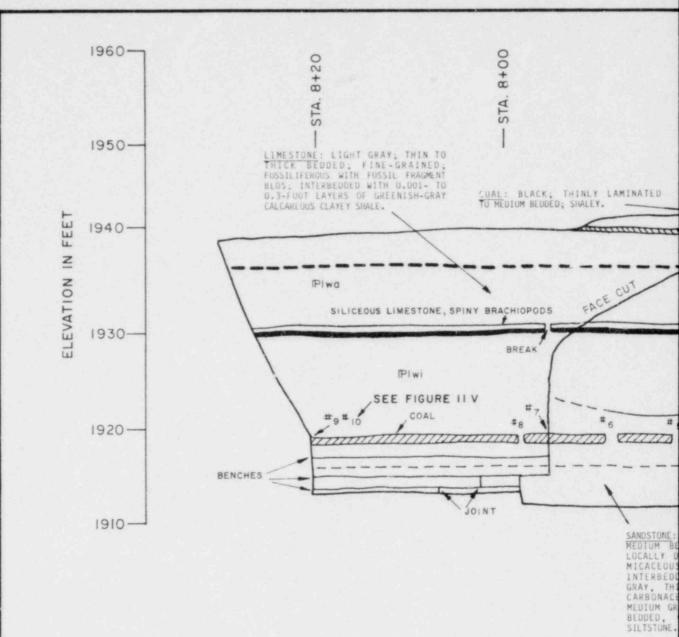
XCAVATION SLOPE

FEET 0 10

WOLF CREEK GENERATING STATION UNIT NO. 1

SERVICE SPILLWAY WEST EXCAVATION SLOPE FROM STA. 6+20 TO STA. 7+20

DAMES & MOORE

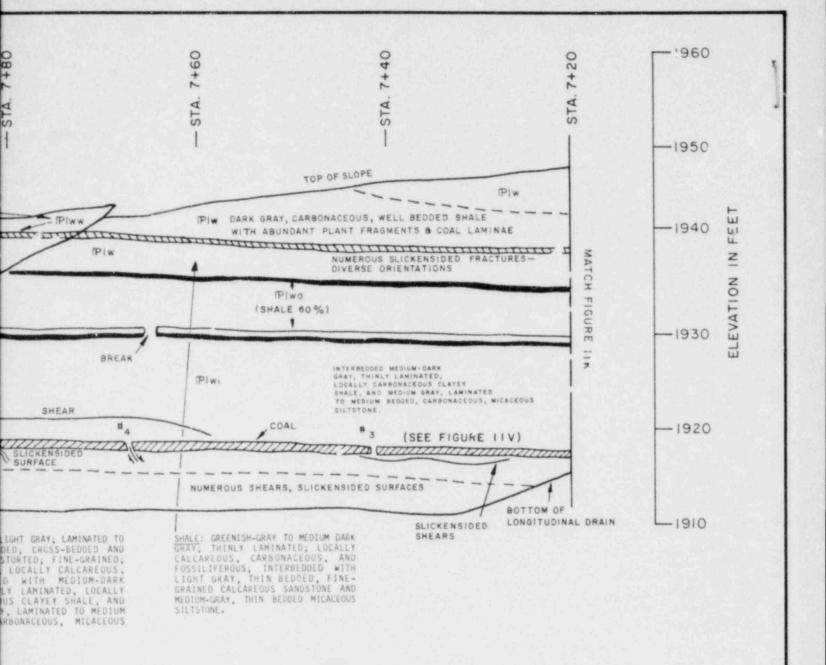


WEST FROM ST

NOTES:

- 1. ELEVATIONS REFER TO SNUPPS DATUM.
- 2. COORDINATES REFER TO SURVEYORS STATIONS ALONG CENTER LINE OF SERVICE SPILLWAY.
- SEE FIGURE 2 FOR AN EXPLANATION OF SYMBOLS USED IN MAPPING.
- 4. SEE FIGURE 11 FOR LOCATION OF SLOPES.
- 5. SLOPE IS APPROXIMATELY 3 HORIZONTAL TO 1 VERTICAL. 6. #17, #16, ETC. DENOTES BREAKS IN THE COAL BED WITHIN THE IRELAND SANDSTONE MEMBER.

10



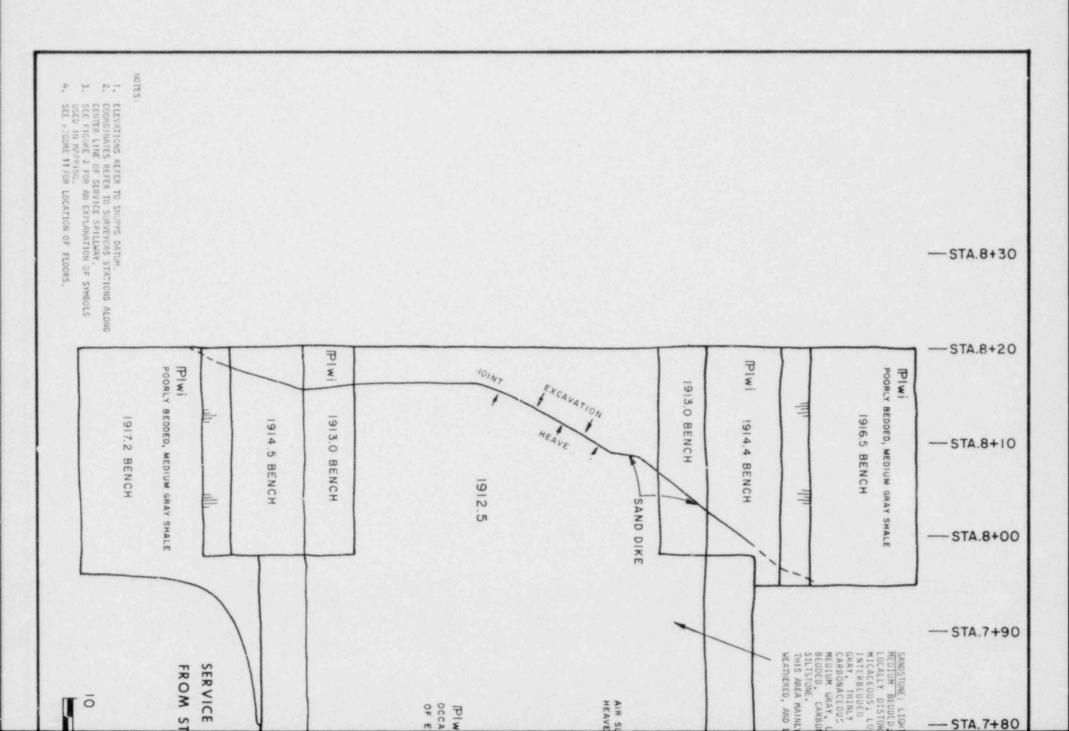
XCAVATION SLOPE A. 7+20 TO STA. 8+20

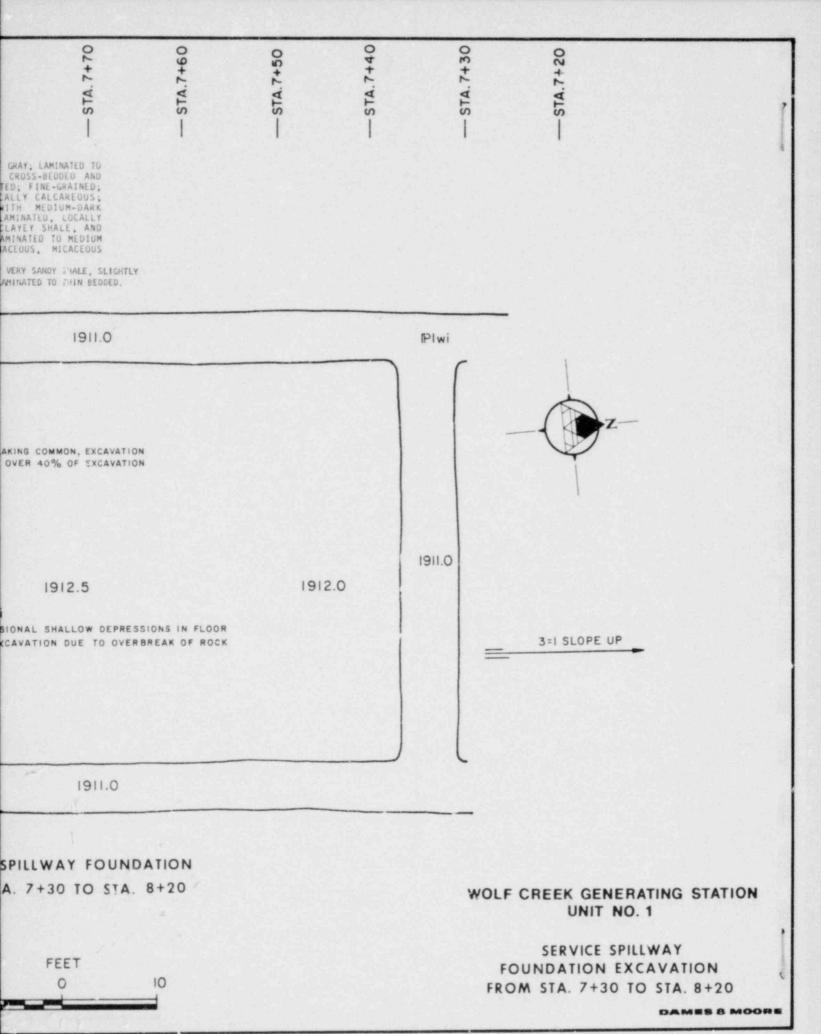
> WOLF CREEK GENERATING STATION UNIT NO. 1

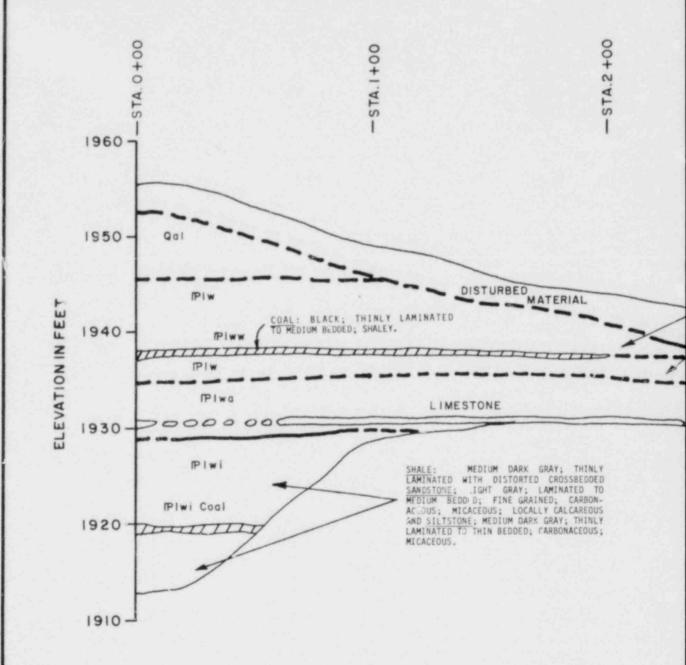
> > SERVICE SPILLWAY WEST EXCAVATION SLOPE FROM STA. 7+20 TO STA. 8+20

FEET 0 IO

DAMES B MOORE







- ELEVATIONS REFER TO SNUPPS DATUM.
- COORDINATES REFER TO SURVEYORS STATIONS ALONG CENTER LINE OF SERVICE SPILLWAY.

 SEE FIGURE 2 FOR AN EXPLANATION OF SYMBOLS USED IN MAPPING.
 SEE FIGURE 11 FOR LOCATION OF FLOORS.

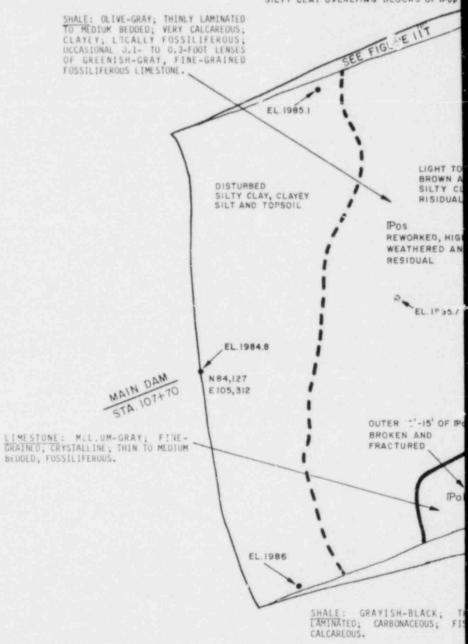
BLOCKY EET onde sond ZONE SHALE: GREENISH-GRAY TO MEDIUM DARK GRAY: THINLY LAMINATED; LOCALLY CALCAREOUS, CARBONACEOUS, AND FOSSILIFEROUS; INFERBEDED, FINE-GRAINED CALCAREOUS SANDSTONE AND MEDIUM-GRAY, THIN BEDDED MICACEOUS SILISTONE. LIMESTONE: GREENISH-GRAY; THIN TO MEDTUN BEDDED, FINE-GRAINED; SHALEY; FOSSILIFERDUS; NODULAR AND LENTICULAR; INTERBEDDED MITH GREENISH-GRAY, THINLY LAMINATED, YERY CALCAREOUS SHALE. 20 -STA.3+00 001 ELEVATION IN FEST 1930 -1920-19407 S'A.5+00 -STA.4+00 001 DISTURBED WOLF CREEK GENERATING STATION SERVICE SPILLWAY UNIT NO. 1 -STA 6+00 -STA.5+00 -STA.6+27

EAST EXCAVATION SLOPE

VERTICAL EXAGGERATION: 2X

18 B 115 -STA.0+00

LIGHT TO MEDIUM BROWN AND GRAY SILTY CLAY OVERLYING BLOCKS OF POP

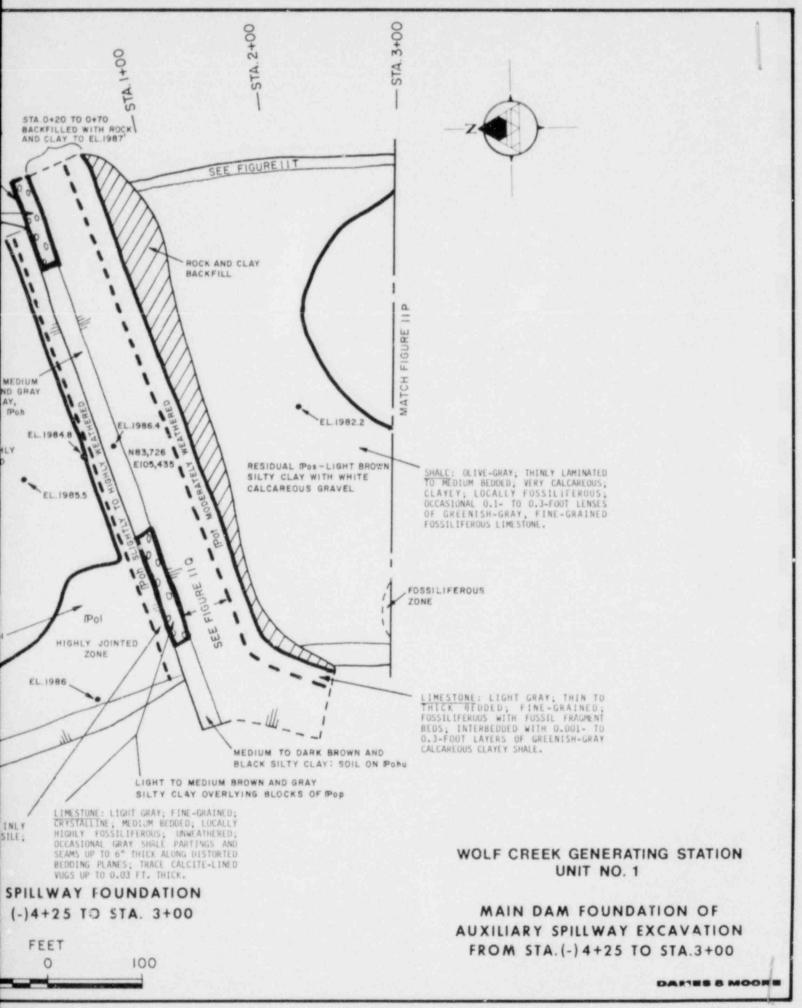


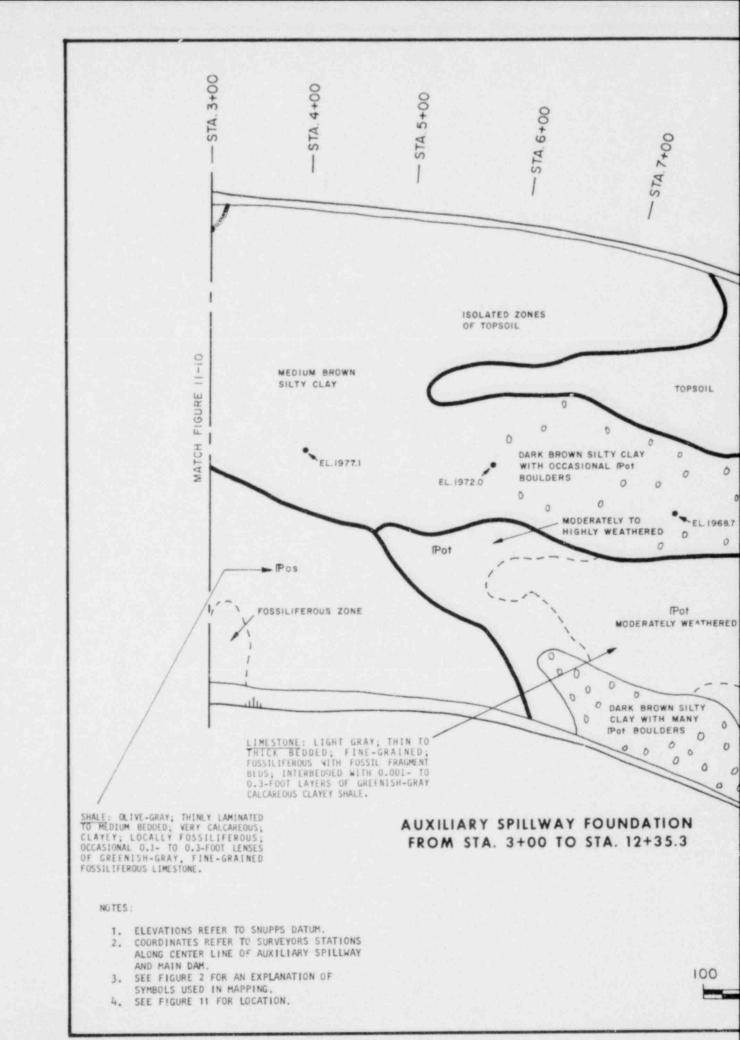
NOTES:

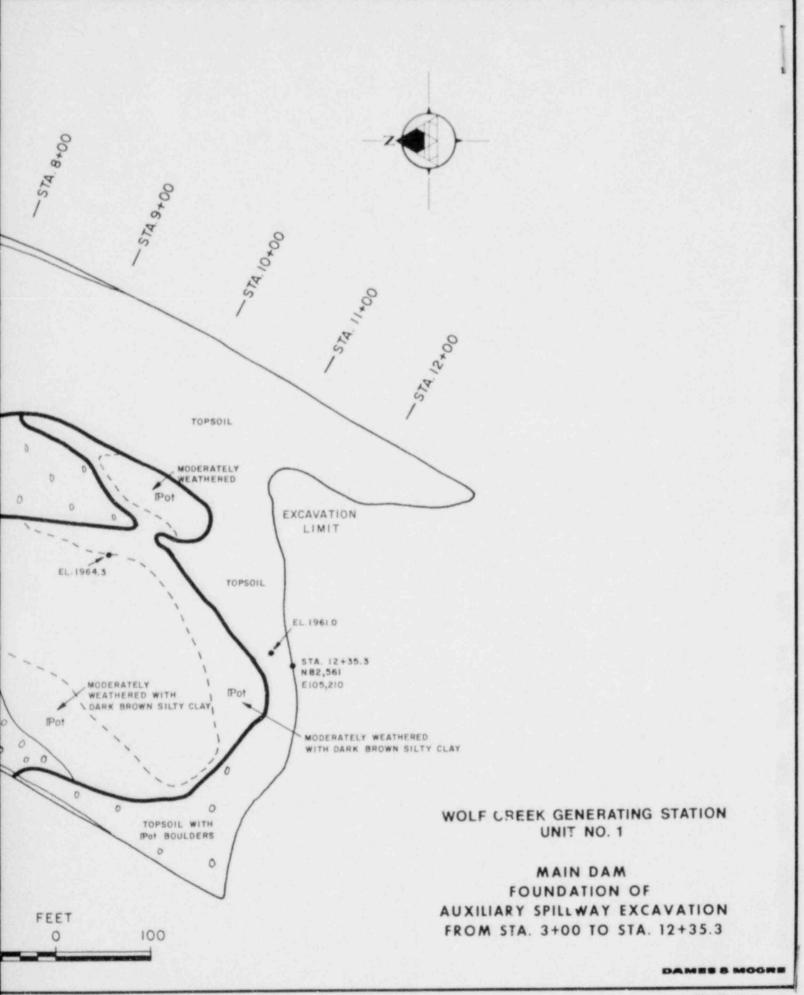
- ELEVATIONS REFER TO SNUPPS DATUM.
- COORDINATES REFER TO SURVEYORS STATIONS ALONG CENTER LINE OF AUXILIARY SPILLWAY AND MAIN DAM.
- 3. SEE FIGURE 2 FOR LOCATION OF SLOPES.
 4. SEE FIGURE 11 FOR AN EXPLANATION OF SYMBOLS USED IN MAPPING.

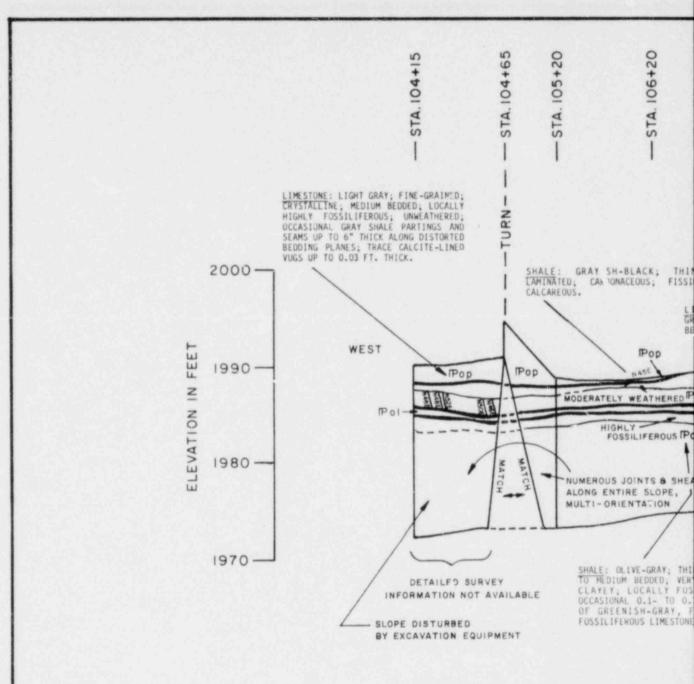
AUXILIARY FROM STA

100









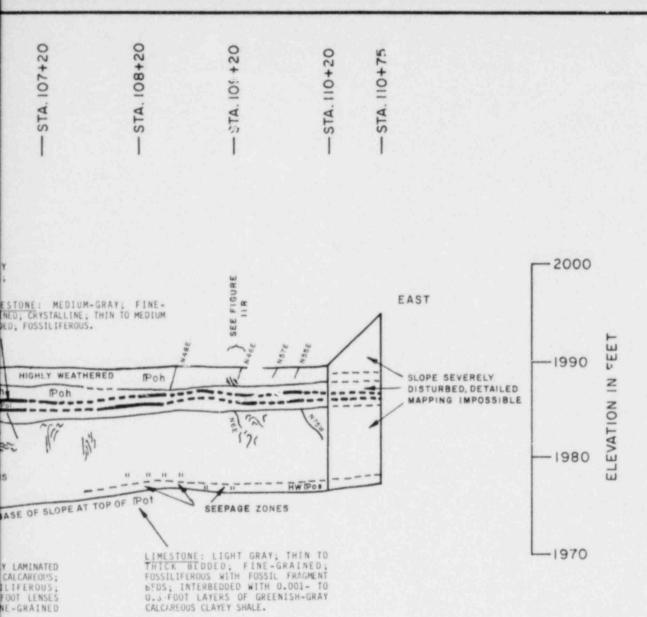
NORTH EXCAVATIO

NOTES:

- 1. ELEVATIONS REFER TO SNUPPS DATUM.
- COORDINATES REFER TO SURVEYORS STATIONS ALONG CENTER LINE OF MAIN DAM.
- SEE FIGURE 11 FOR AN EXPLANATION OF SYMBOLS SED IN MAPPING.
- 4. SEE FIGURE 2 FOR LOCATION OF SLOPES.
- 5. SLOPE IS APPROXIMATELY 3 HORIZONTAL TO 1 VERTICAL.

100

VE



SLOPE OF AUXILIARY SPILLWAY

FEET

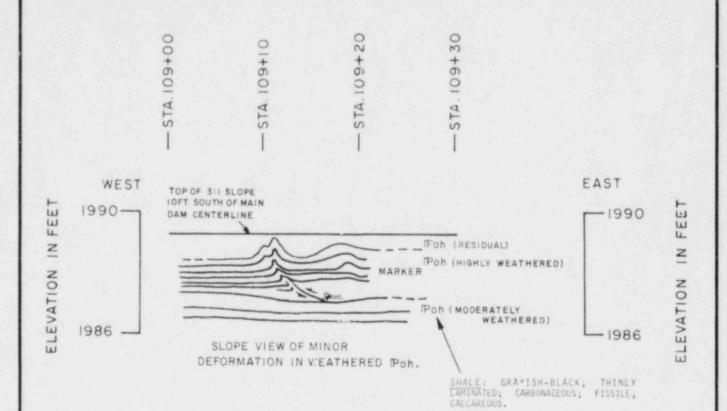
O 100

ICAL EXAGGERATION: 10X

WOLF CREEK GENERATING STATION UNIT NO. 1

OF AUXILIARY SPILLWAY
FROM STA. 104+15 TO STA. 110+75
ALONG MAIN DAM

DAMES & MOORE



DETAIL-MINOR DEFORMATION IN WEATHERED HEEBNER SHALE



WOLF CREEK GENERATING STATION UNIT NO. 1

NOTES:

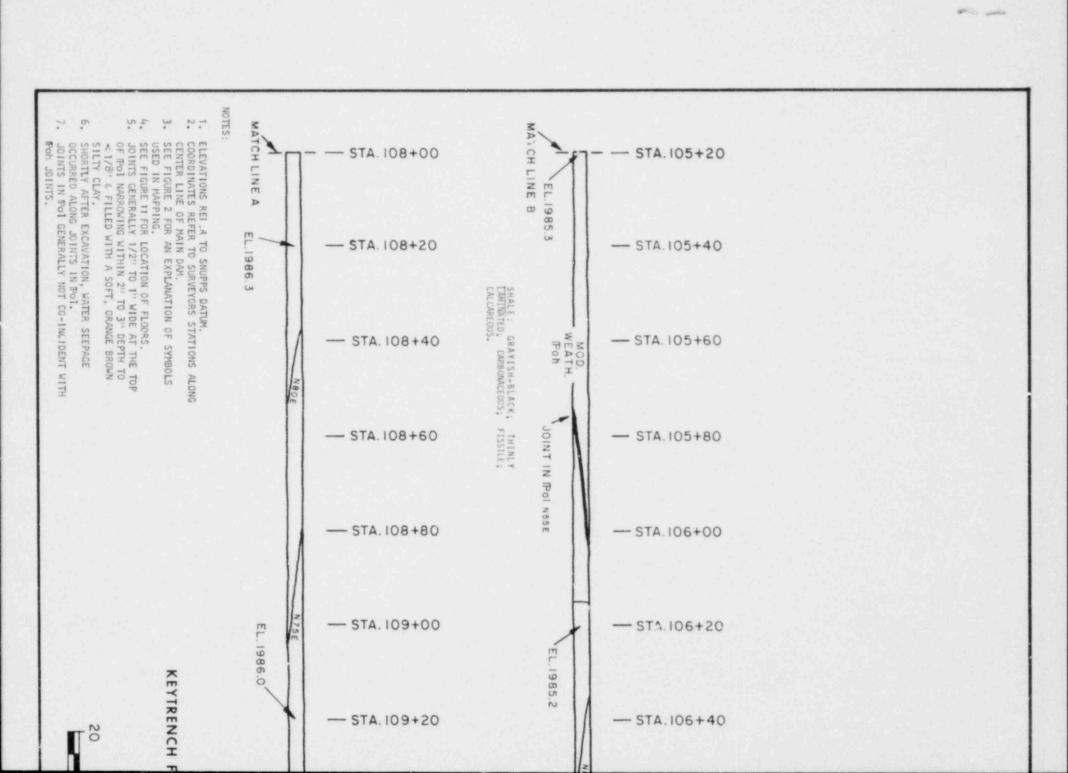
- 1. ELEVATIONS REFER TO SNUPPS DATUM.
- COORDINATES REFER TO SURVEYORS STATIONS ALONG CENTER LINE OF MAIN DAM.
- SEE FIGURE 2 FOR AN EXPLANATION OF SYMBOLS USED IN MAPPING.
- 4. SEE FIGURES !! AND HO FOR LOCATION OF SLOPE.
- 5. SLOPE IS APPROXIMATELY 3 HORIZONTAL TO 1 VERTICAL.

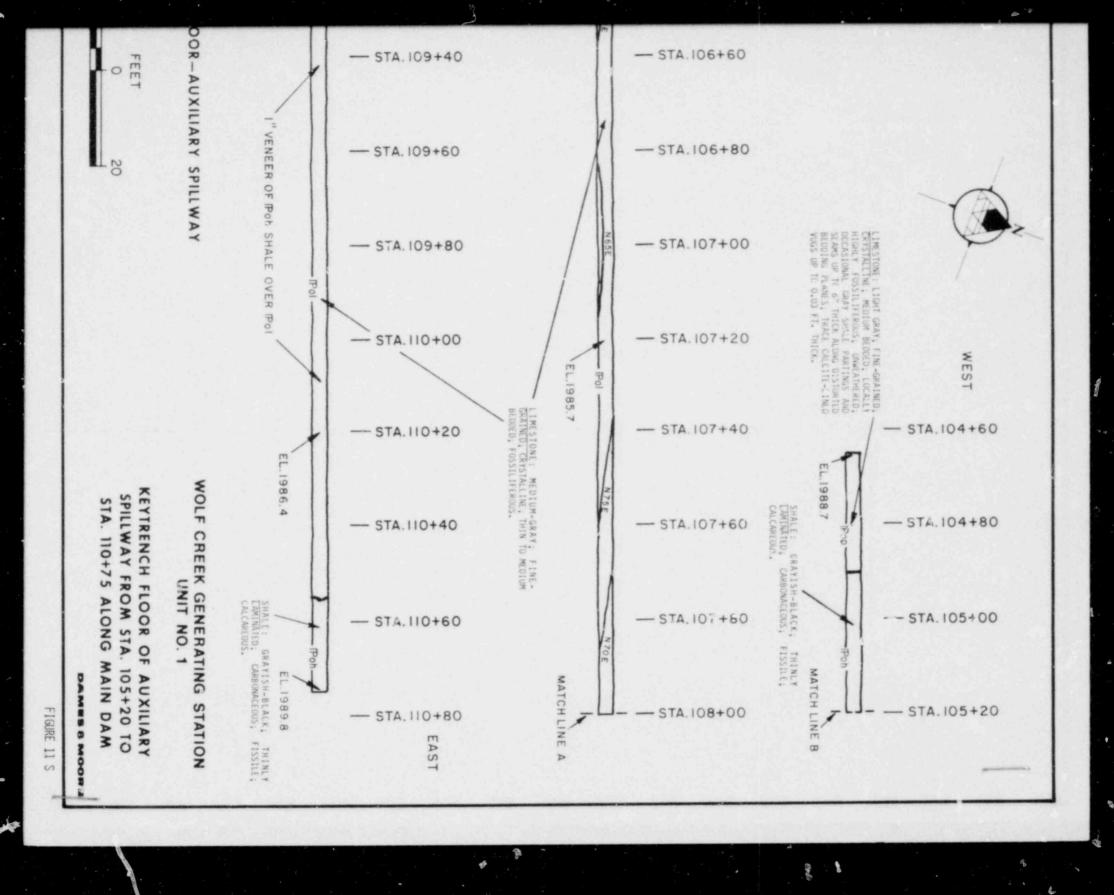
MINOR DEFORMATION IN WEATHERED
HEEBNER SHALE IN NORTH EXCAVATION

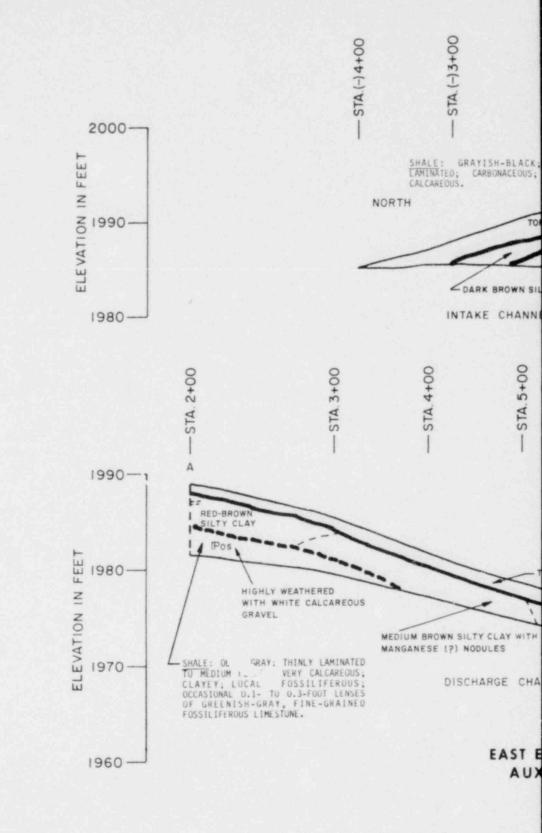
SLOPE OF AUX LIARY SPILLWAY

FROM STA. 109+06 TO STA. 109+30 ALONG MAIN DAM

DAMES B MOORE

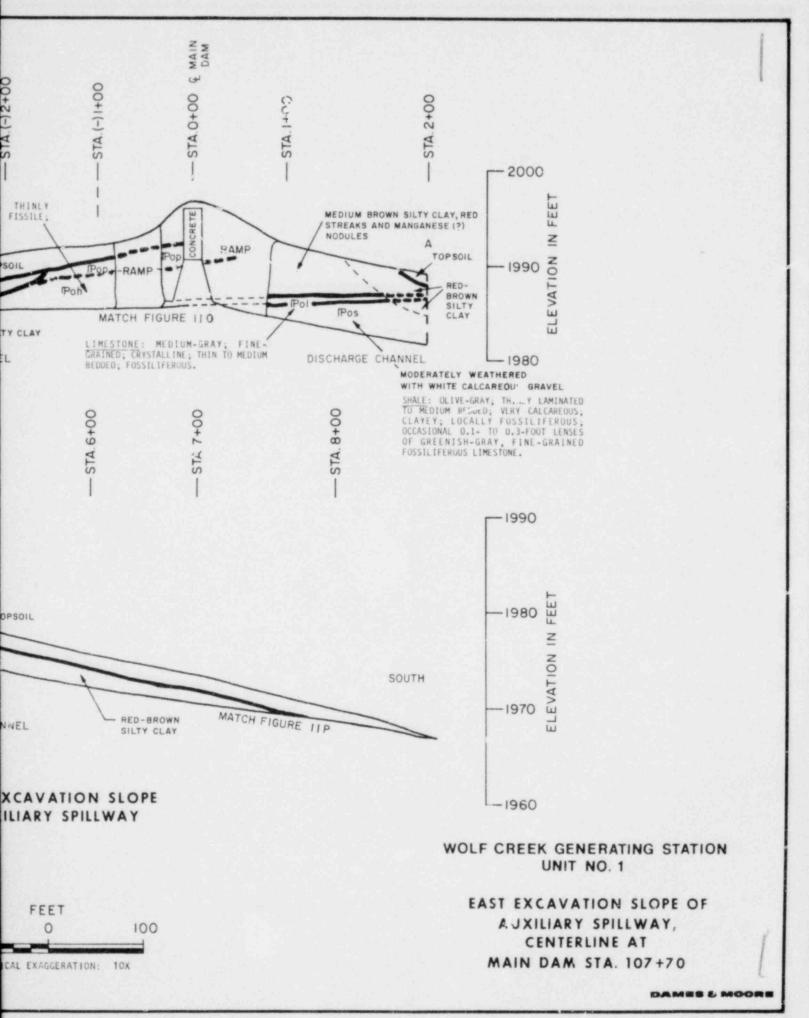


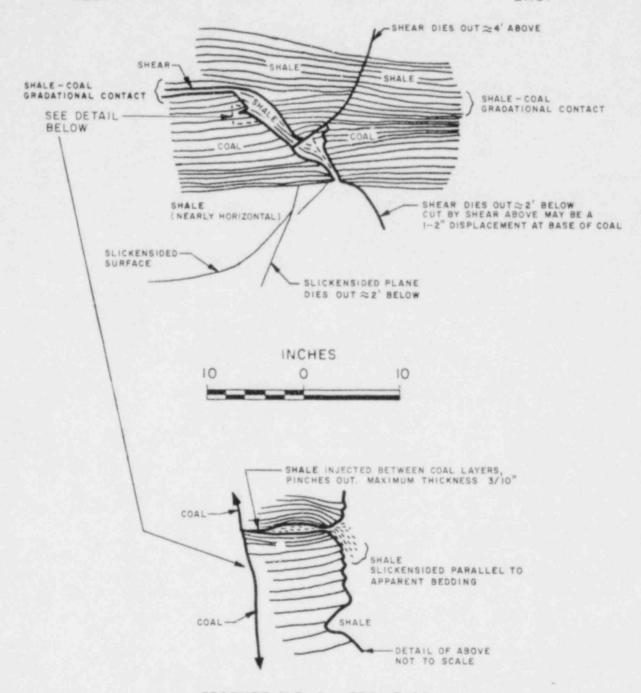




NOTES:

- ELEVATIONS REFER TO SNUPPS DATUM.
- COORDINATES REFER TO SURVEYORS STATIONS ALONG CENTER LINE OF AUXILIARY SPILLWAY. SEE FIGURE 2 FOR AN EXPLANATION OF SYMBOLS
- USED IN MAPPING.
- SEE FIGIRE 11 FOR LOCATION OF SLOPES. SLOPE IS APPROXIMATELY 3 HORIZONTAL TO 1 VERTICAL.





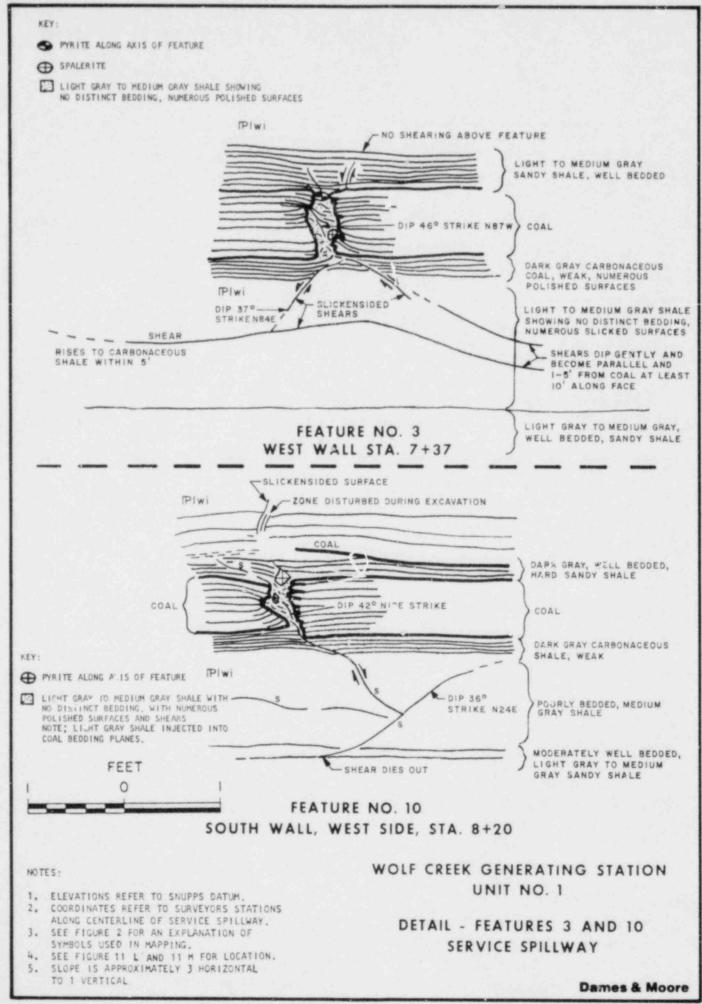
FEATURE NO. 1 - STA. 7+15 LONGITUDINAL DRAIN, NORTH WALL EAST SIDE SERVICE SPILLWAY

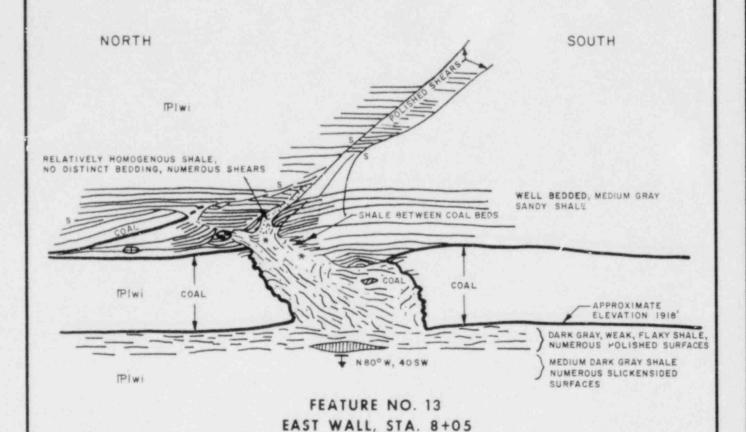
NOTES:

- 1. ELEVATIONS REFER TO SNUPPS DATUM.
- COORDINATES REFER TO SURVEYORS STATIONS ALONG CENTERLINE OF SERVICE SPILLWAY.
- SEE FIGURE 2 FOR AN EXPLANATION OF SYMBOLS USED IN MA. ING.
- 4. SEE FIGURE 11H FUR LOCATION.
- SLOPE IS APPROLIMATELY 3 HORIZONTAL TO 1 VERTICAL.

WOLF CREEK GENERATING STATION
UNIT NO. 1

DETAIL - FEATURE NO. 1
SERVICE SPILLWAY





KEY;

- * CONTACT BETWEEN HOMOGENOUS SHALE AND WELL BEDDED, SANDY SHALE IS GRADATIONAL
- S DENOTES SHEAR
- PYRITE NODULE
- COAL WITHIN PYRITE NODULE



NOTES:

- 1. ELEVATIONS REFER TO SNUPPS DATUM.
- COORDINATES REFER TO SURVEYORS STATIONS ALONG CENTERLINE OF SERVICE SPILLWAY.
- SEE FIGURE 2 FOR AN EXPLANATION OF SYMBOLS USED IN MAPPING.
- 4. SEE FIGURE 11 J FOR LOCATION.
- SLOPE IS APPROXIMATELY 3 HORIZONTAL TO 1 VERTICAL.

WOLF CREEK GENERATING STATION
UNIT NO. 1

DETAIL - FEATURE NO. 13 SERVICE SPILLWAY

WEST EAST POLISHED SHEARS MEDIUM GRAY WELL BEDDED DIP 330 SANDY SHALE STRIKE N26 INTERBEDDED COAL AND 20% CARBONACEOUS SHALE DARK GRAY CARBONACEOUS SHALE, WEAK WITH NUMEROUS SLICKENSIDED SURFACES MEDIUM GRAY SHALE, NO DISTINCT BEDDING NUMEROUS SLICKENSIDED SLICKENSIDED SHEARS SURFACE

KEY:

- * 9 NEAR VERTICAL JOINTS LINED WITH CALCITE, A DULL PINK CRYSTALLINE CARBONATE AND PYRITE, NUMEROUS VOIDS
 - S DENOTES SHEARS
- PYRITE NODULE, ELONGATE PERPENDICULAR TO FACE



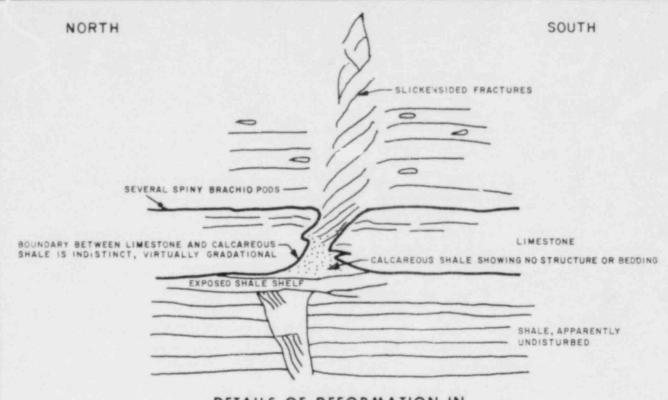
FEATURE NO. 14 - STA. 7+95 NORTH WALL, EAST KEYWALL EXCAVATION

NOTES:

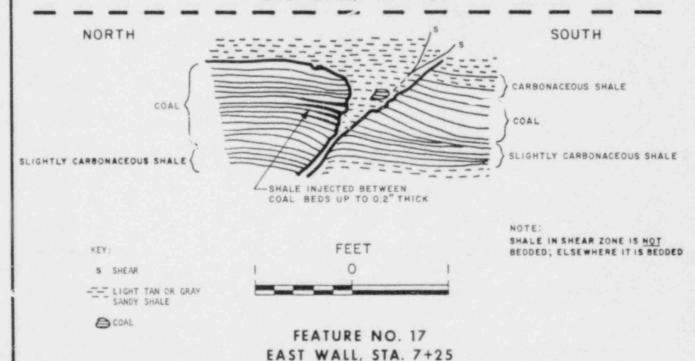
- 1. ELEVATIONS REFER TO SNUPPS DATUM.
- 2. COORDINATES REFER TO SURVEYORS STATIONS ALONG CENTERLINE OF SERVICE SPILLWAY.
- SEE FIGURE 2 FOR AN EXPLANATION OF SYMBOLS USED IN MAPPING.
- 4. SEE FIGURES 11 J AND 11 M FOR LOCATION. 5. SLOPE IS APPROXIMATELY 3 HORIZONTAL TO 1 VERTICAL.

WOLF CREEK GENERATING STATION UNIT NO. 1

> DETAIL - FEATURE NO. 14 SERVICE SPILLWAY



DETAILS OF DEFORMATION IN AMAZONIA MEMBER MARKER BED EAST WALL, STA. 7+29

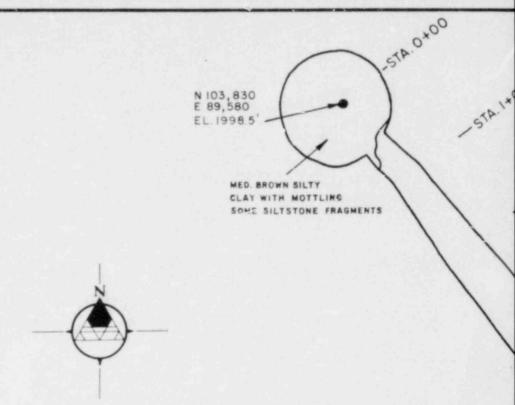


NOTES:

- 1. ELEVATIONS REFER TO SNUPPS DATUM.
- COORDINATES REFER TO SURVEYORS STATIONS ALONG CENTERLINE OF SERVICE SPILLWAY.
- 3. SEE FIGURE 2 FOR AN EXPLANATION OF SYMBOLS USED IN MAPPING.
- 4. SEE FIGURE 11 J FOR LOCATION OF SLOPES.
- SLOPE IS APPROXIMATELY 3 HORIZONTAL TO 1 VERTICAL.

WOLF CREEK GENERATING STATION UNIT NO. 1

DETAILS FEATURE NO. 17 AND AMAZONIA MARKER BED SERVICE SPILLWAY

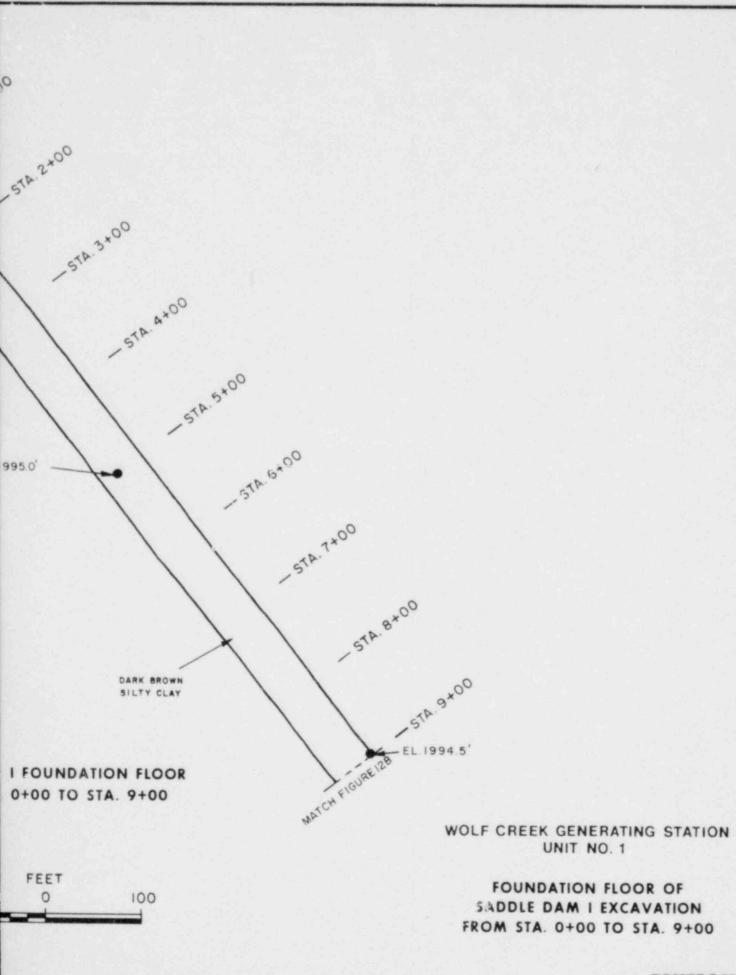


EL.

SADDLE DAM FROM STA

NOTES:

- 1. ELEVATIONS REFER TO SNUPPS DATUM.
 2. COORDINATES REFER TO SURVEYORS STATIONS ALONG CENTER LINE OF SADDLE DAM 1.
 3. SEE FIGURE 2 FOR AN EXPLANATION OF SYMBOLS USED IN MAPPING.
- 4. SEE FIGURE | FOR LOCATION OF FLOORS.



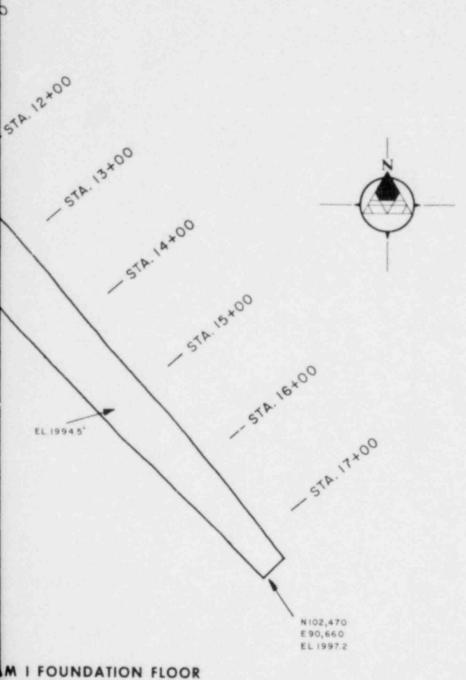
WATCH FIGURE 12A STA 9400 STA.10+00 EL. 1994.5 EL. 1992.9

DARK BROWN SILTY CLAY

SADDLE DA FROM ST

NOTES:

- 1. ELEVATIONS REFER TO SNUPPS DATUM.
 2. COORDINATES REFER TO SURVEYORS STATIONS ALONG CENTER LINE OF SADDLE DAM I.
 3. SEE FIGURE 2 FOR AN EXPLANATION OF SYMBOLS
- USED IN MAPPING.
- 4. SEE FIGURE 1 FOR LOCATION OF FLOORS.



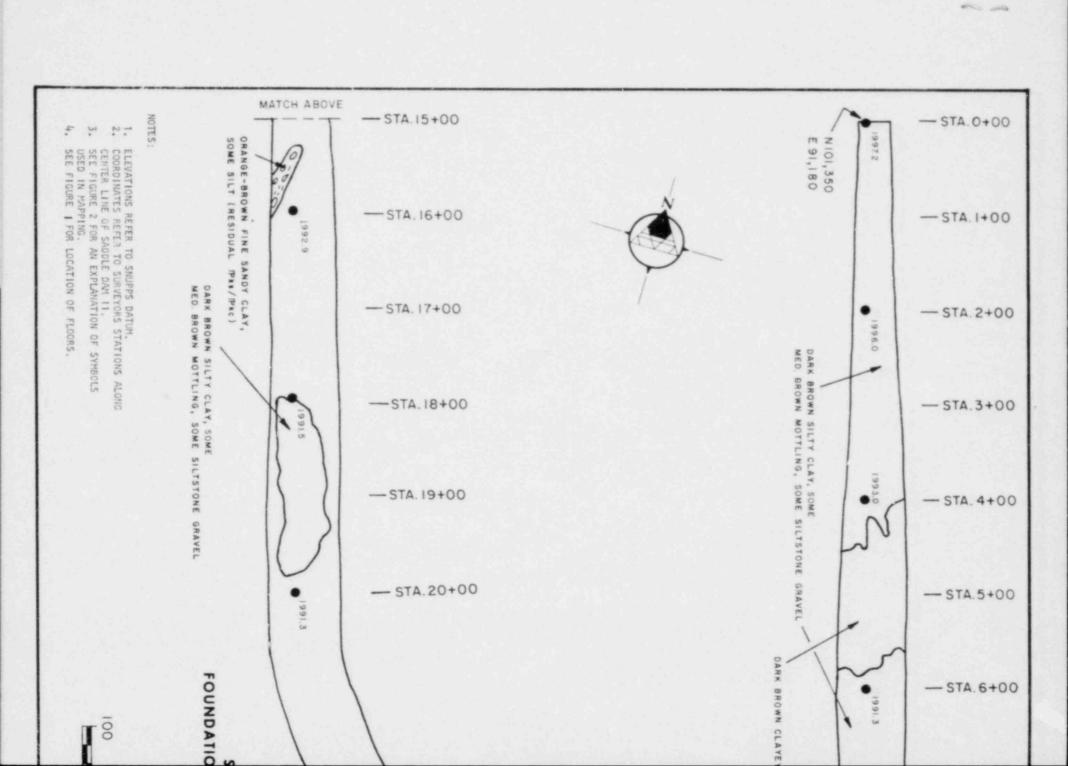
M I FOUNDATION FLOOR A. 9+00 TO STA. 17+35

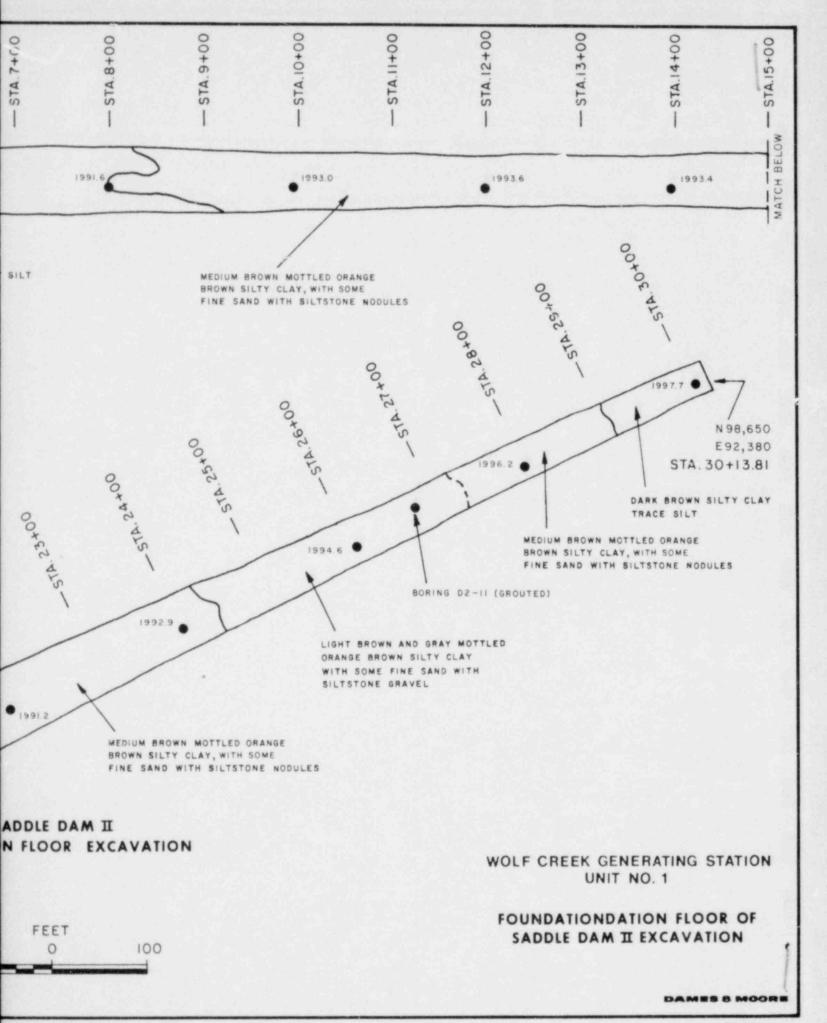
WOLF CREEK GENERATING STATION UNIT NO. 1

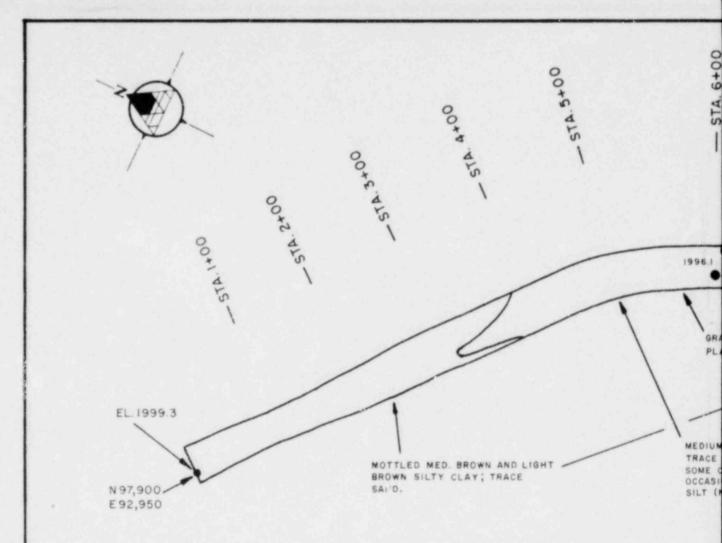
FOUNDATION FLOOR OF SADDLE DAM I EXCAVATION FROM STA. 9+00 TO STA. 17+35

0 100

DAMES & MOOIS



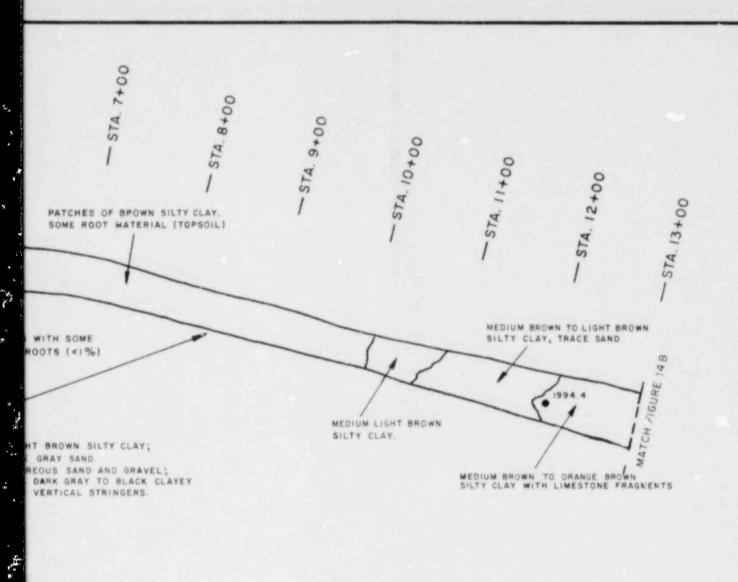




SADDLE DAM FROM STA.

NOTES:

- 1. ELEVATIONS REFER TO SNUPPS DATUM.
 2. COORDINATES REFER TO SURVEYURS STATIONS ALONG CENTER LINE OF SADDLE DAM III.
 3. SEE FIGURE 2 FOR AN EXPLANATIO OF SYMBOLS USED IN MAPPING.
 4. SEE FIGURE I FOR LOCATION OF FLOORS.



OUNDATION FLOOR OO TO STA. 13+00

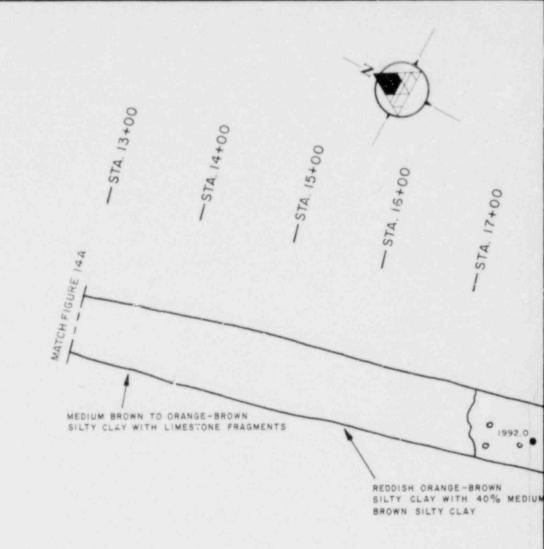
100

EET

WOLF CREEK GENERATING STATION UNIT NO. 1

FOUNDATION FLOOR OF SADDLE DAM III EXCAVATION FROM STA. 0+00 TO STA. 13+00

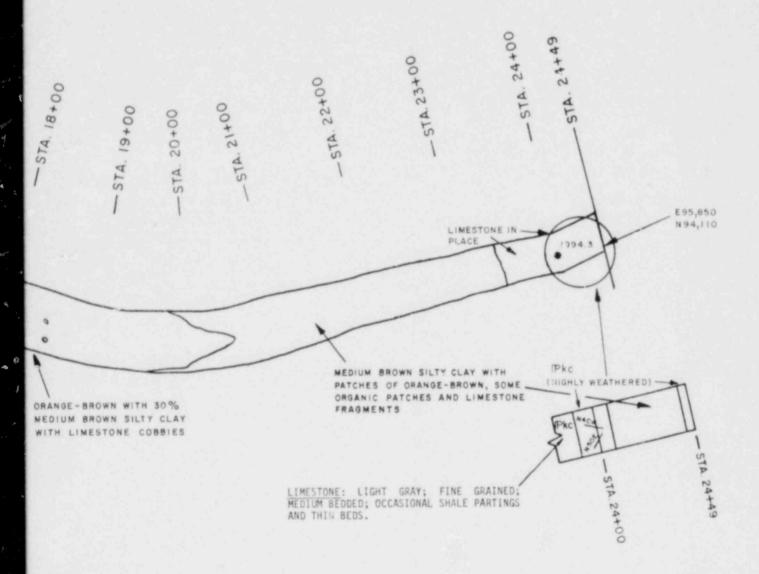
DAMES & MOORE



SADDLE DAM FROM STA.

NOTES:

- 1. ELEVATIONS REFER TO SNUPPS DATUM.
 2. COORDINATES REFER TO SURVEYORS STATIONS ALONG
 CENTER LINE OF SADDLE DAM III.
 3. SEE FIGURE 2 FOR AN EXPLANATION OF SYMBOLS
- USED IN MAPPING. 4. SEE FIGURE | FOR LOCATION OF FLOORS.



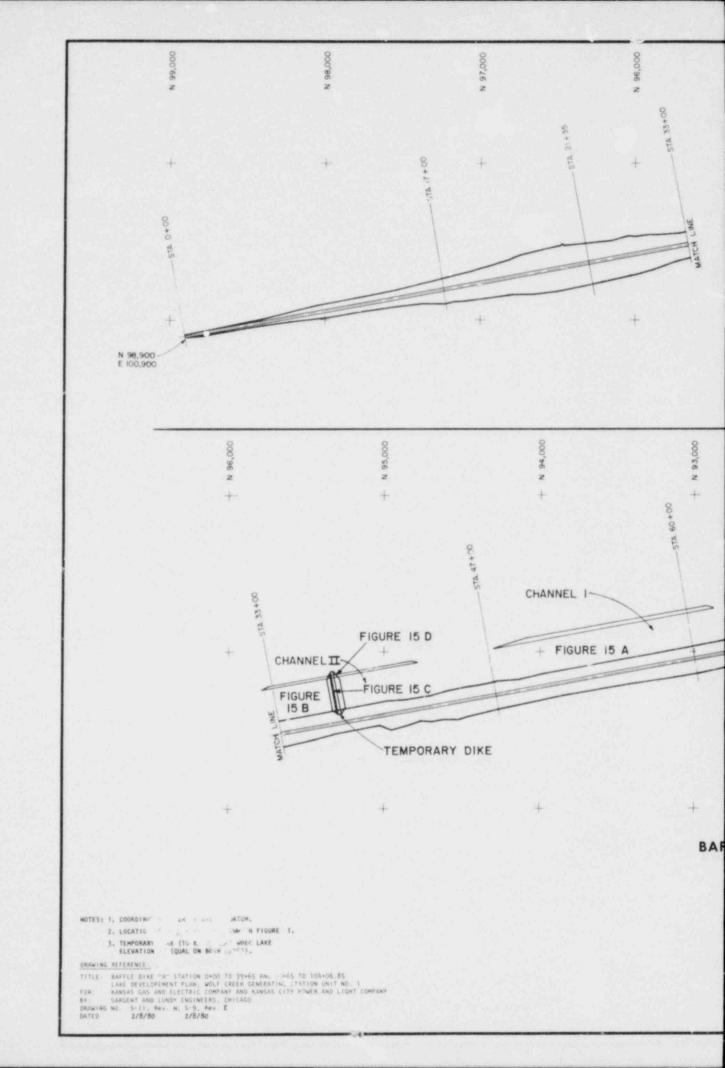
FOUNDATION FLOOR +00 TO STA. 24+49

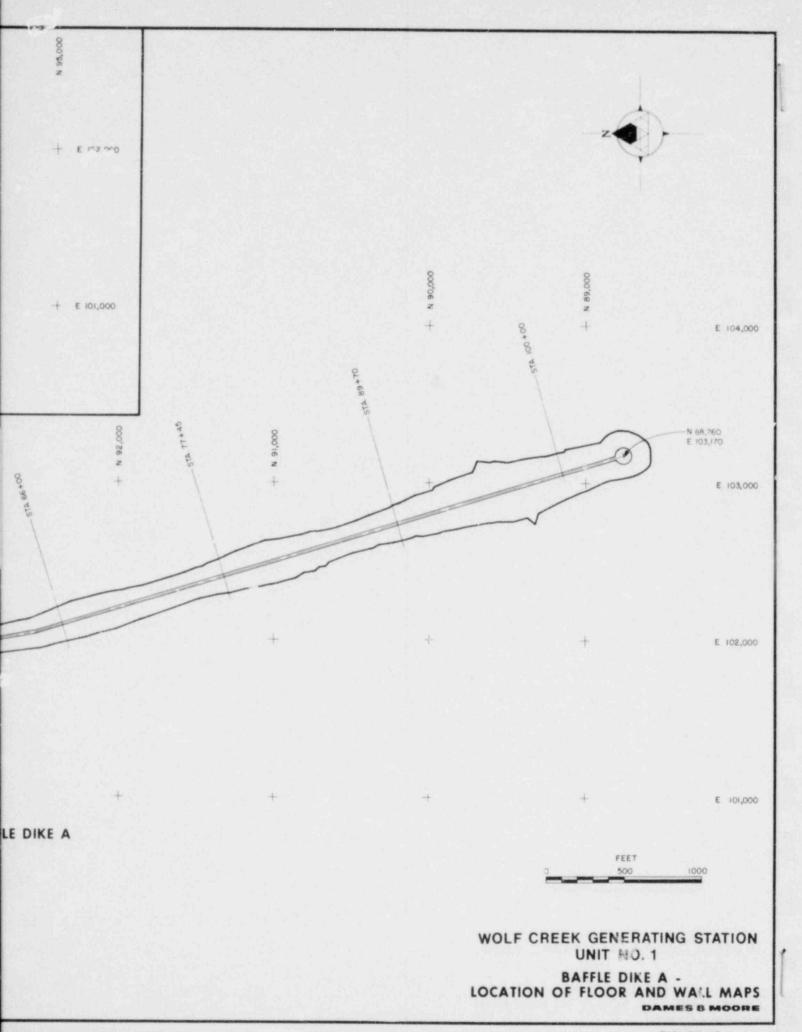
> WOLF CREEK GENERATING STATION UNIT NO. 1

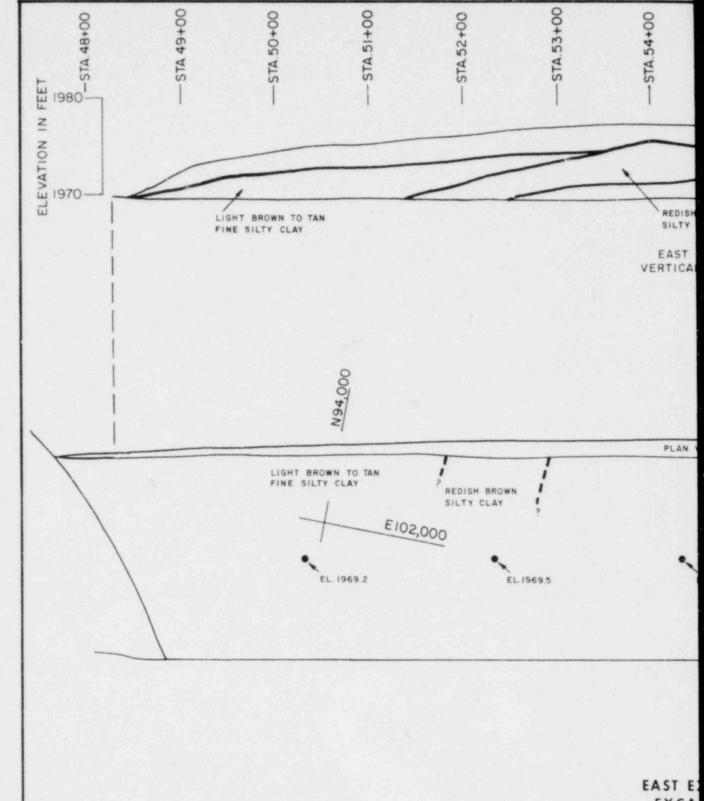
FOUNDATION FLOOR OF SADDLE DAM III EXCAVATION FROM STA. 13+00 TO STA. 24+49

O 100

DAMES & MOORE



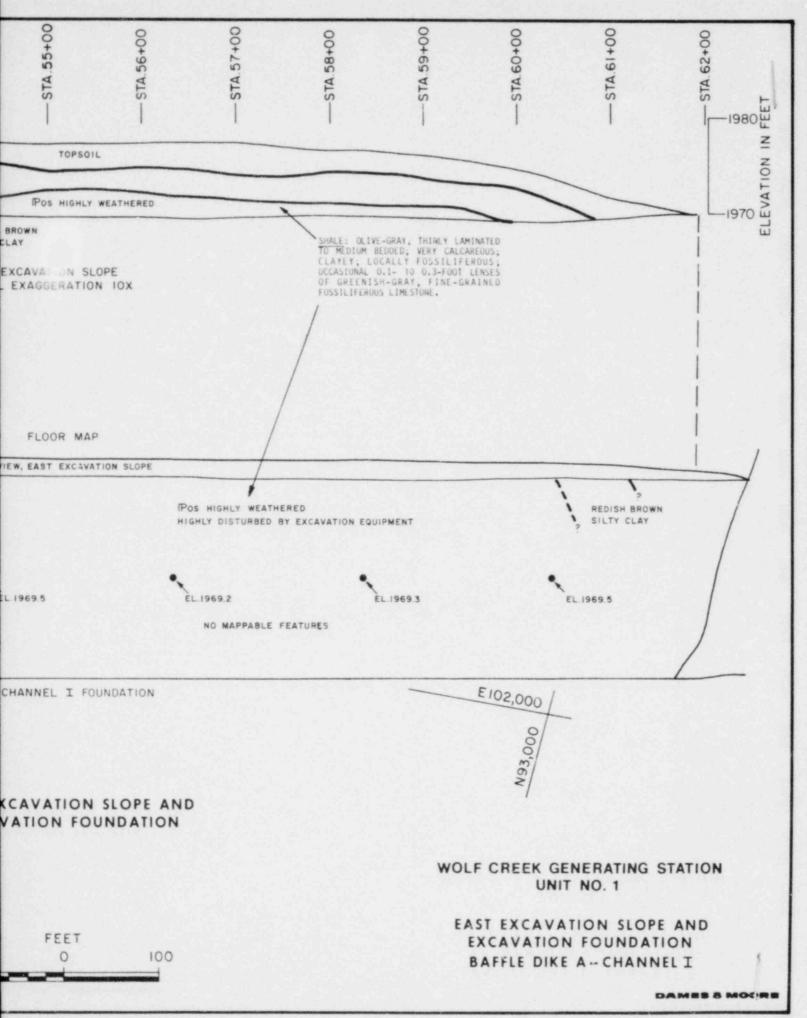


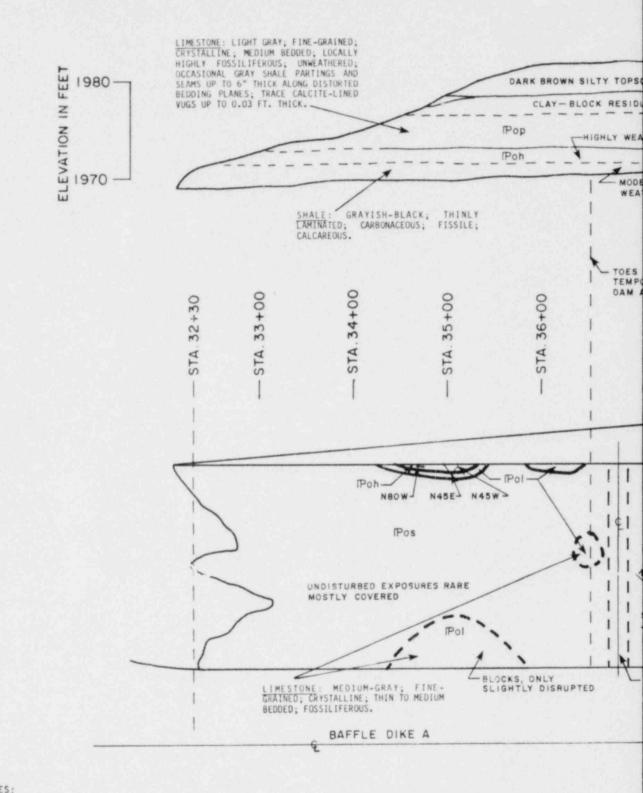


NOTES:

- ELEVATIONS REFER TO SNUPPS DATUM.
 COORDINATES REFER TO SURVEYORS STATIONS
 ALONG CENTERLINE OF BAFFLE DIKE A.
- SEE FIGURE 2 FOR AN EXPLANATION OF SYMBOLS USED IN MAPPING.
- SEE FIGURE 15 FOR LOCATION OF SLOPES. SLOPE IS APPROXIMATELY 1 HORIZONTAL TO 1 VERTICAL.

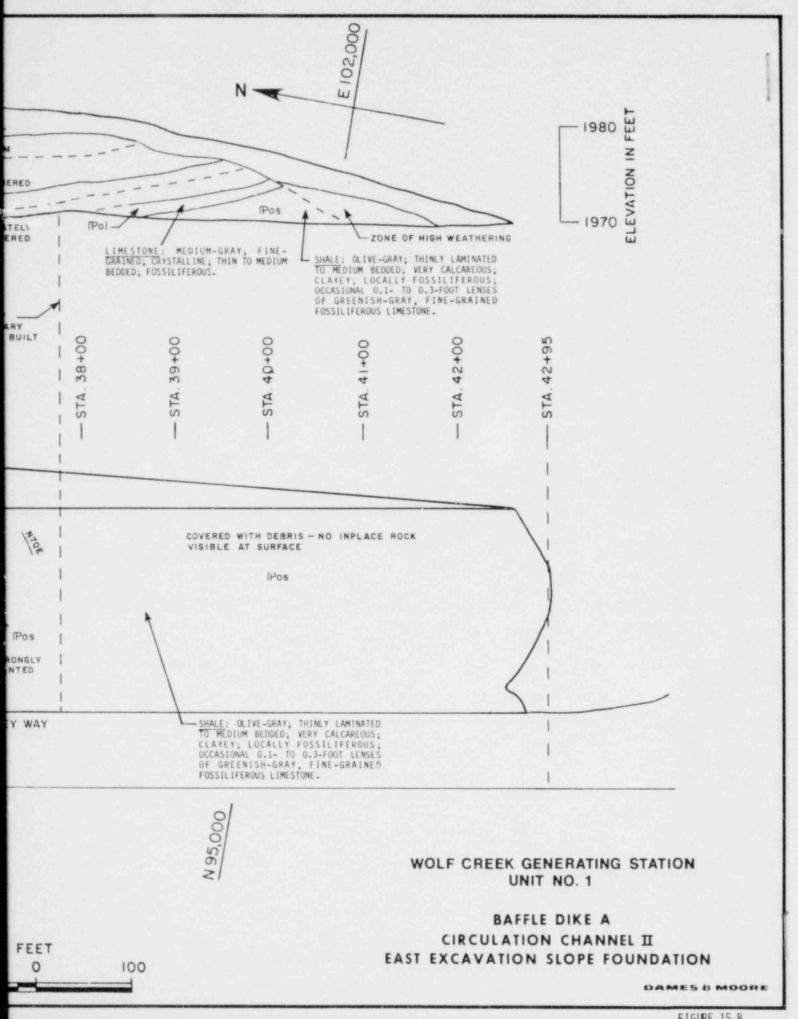
EXCA

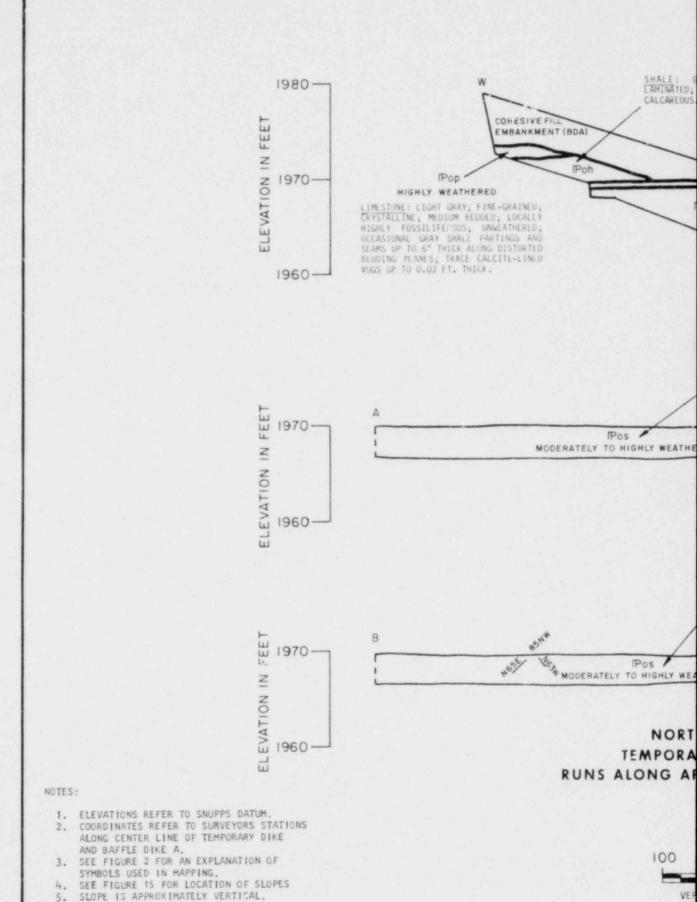




NOTES:

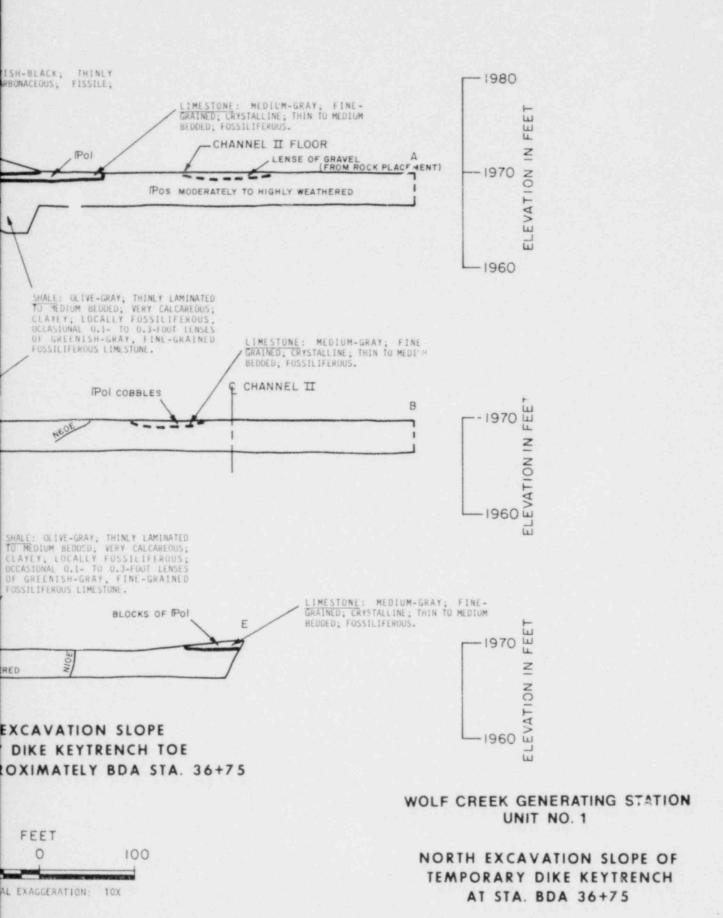
- 1. ELEVATIONS REFER TO SNUPPS DATUM.
- COORDINATES REFER TO SURVEYORS STATIONS ALONG CENTER LINE OF TEMPORARY DIKE AND BAFFLE DIKE A.
 SEE FIGURE 2 FOR AN EXPLINATION OF
- SYMBOLS USED IN MAPPING.
- SEE FIGURE 15 FOR LOCATION OF SLOPES
- SLOPE IS APPROXIMATELY VERTICAL. 6. JOINTS ARE LIMONITE-STAINED.
- JOINTS SHOWN IN SNYDERVILLE SHALE MEMBER (PO.) ARE REPRESENTATIVE OF NUMEROUS JOINTS.





JOINTS ARE LIMONITE-STAINED.
JOINTS SHOWN IN SNYDERVILLE SHALE
MEMBER (Pos) ARE REPRESENTATIVE OF

NUMEROUS JOINTS.



DAMES & MOORE

FEET

10

BAFFLE DIKE A

EAST ABUTMENT OF TEMPORARY DIKE

FIGURE 15 D

4. SEE FIGURE 15 FOR LOCATION OF SLOPES

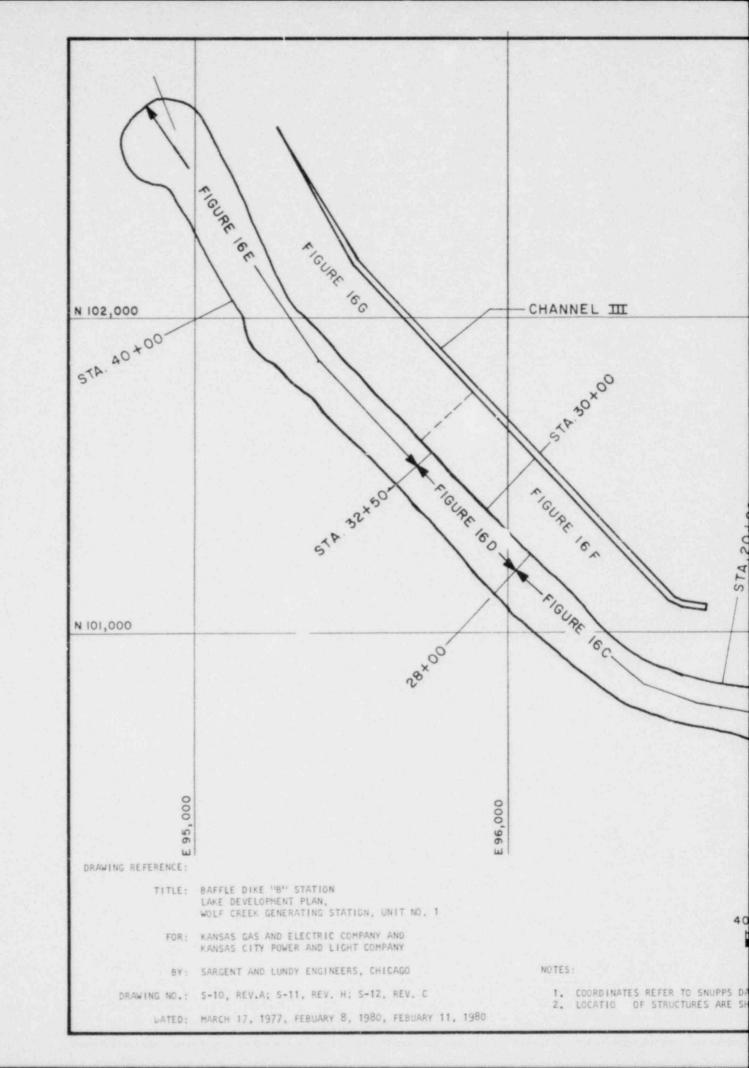
MEMBER (POR) ARE REPRESENTATIVE OF

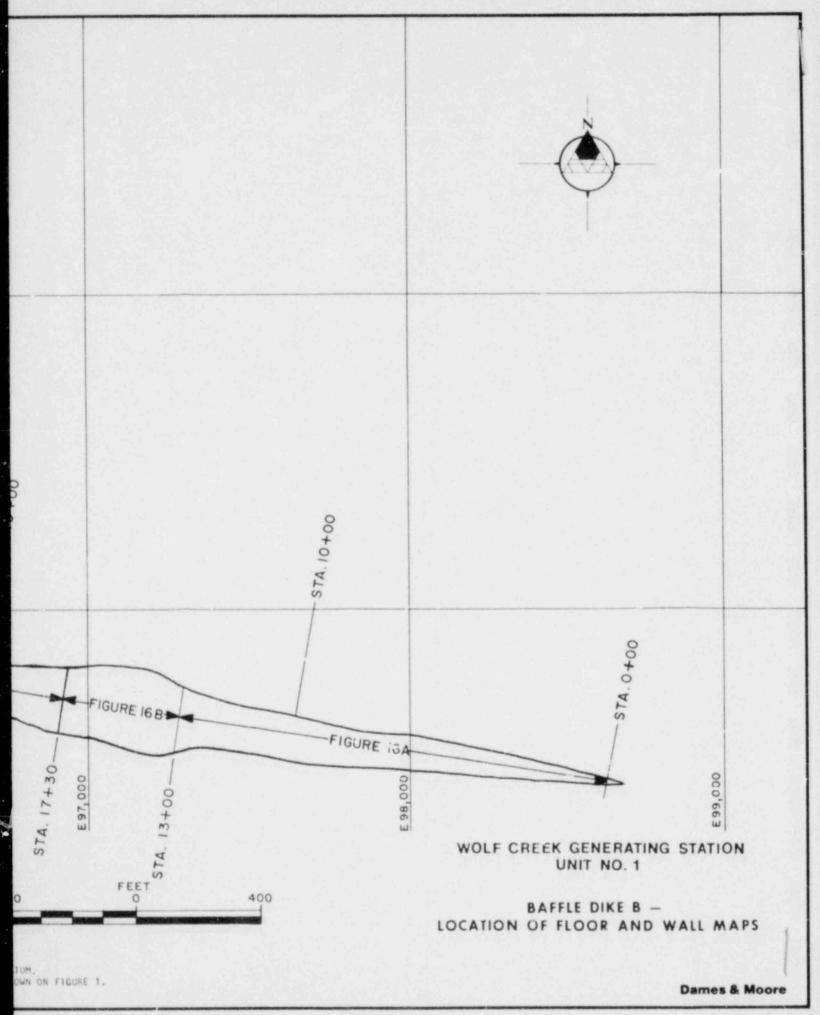
5. SLOPE IS APPROXIMATELY VERTICAL.

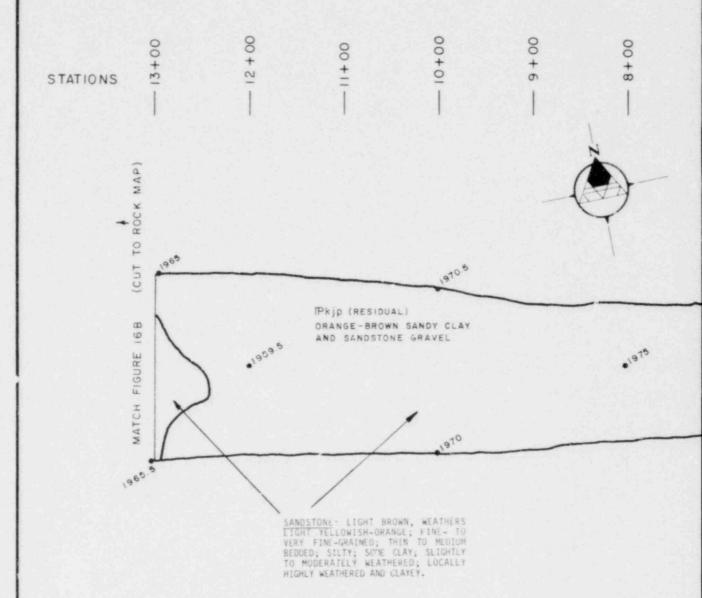
7. JOINTS SHOWN IN SNYDERVILLE SHALE

6. JOINTS ARE LIMONITE-STAINED.

NUMEROUS JOINTS.



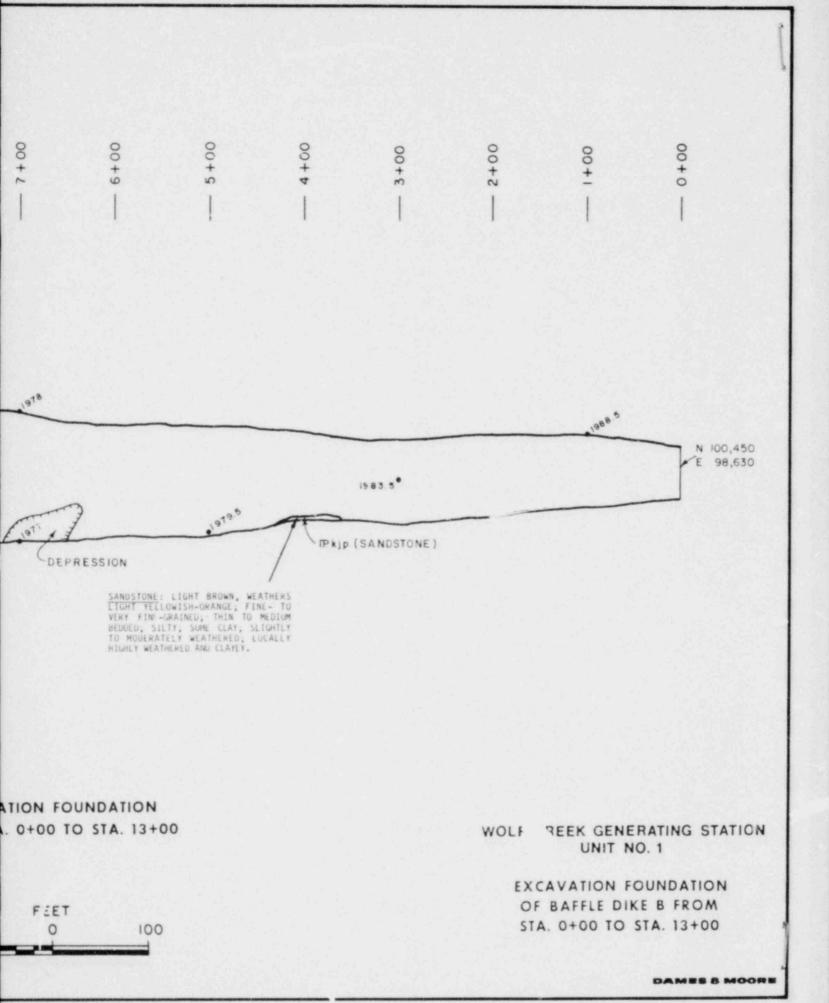


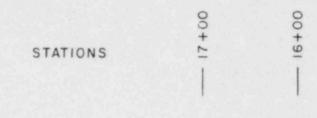


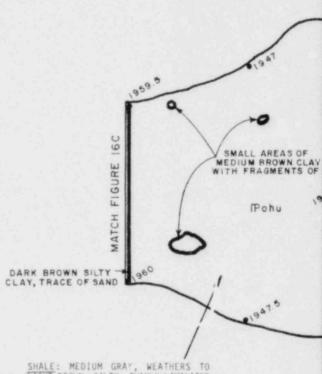
EXCAV FROM STA

NOTES:

- ELEVATIONS REFER TO SNUPPS DATUM.
 COORDINATES REFER TO SURVEYORS STATIONS ALONG CENTERLINE OF BAFFLE DIKE "B".
- 3. SEE FIGURE 2 FOR AN EXPLANATION OF
- SYMBOLS USED IN MAPPING. 4. SEE FIGURE 16 FOR LOCATION OF FLOORS.







SHALE: MEDIUM GRAY, WEATHERS TO TIGHT BROWN; SILTY; THINLY LAMINATED TO THIN BEDDED; LOCALLY CALCAREOUS; LOCALLY CLAYEY; SLIGHTLY WEATHERED TO UNWEATHERED; OCCASIONAL LIGHT BROWN SILTSTONE STRINGERS AND NODULES.

EXCAN FROM ST

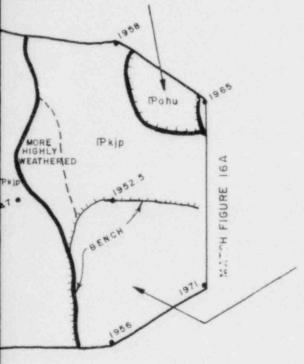
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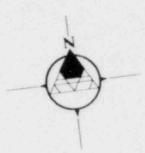
- 1. ELEVATIONS REFER TO SNUPPS DATUM.
- 2. COORDINATES REFER TO SURVEYORS STATIONS
- ALONG CENTERLINE OF BAFFLE DIKE "B". SEE FIGURE 2 FOR AN EXPLANATION OF SYMBOLS USED IN MAPPING.
- 4. SEE FIGURE 16 FOR LOCATION OF FL. .. 5. AREA SHOWN WAS EXCAVATED TO THE TOP OF ROCK.

100



SHALE: MEDIUM GR//, WEATHERS TO LTG. N. SILT', THINLY LAMINATED TO THIN BEW. LOCALLY CALCAREOUS; LOCALLY CLAYEY; SCHILLY WEATHERED TO UNWEATHERED; OCCASIONAL LIGHT BROWN SILTSTONE STRINGERS AND NODULES.





SANDSTONE: LIGHT BROWN, WEATHERS LTGHT YELLOWISH-ORANGE; FINE- TO VERY FINE-GRAINED; THIN TO MEDIUM BEDDED; SILTY, SOME CLAY; SLIGHTLY TO MODERATELY WEATHERED, LOCALLY HIGHLY WEATHERED AND CLAYEY.

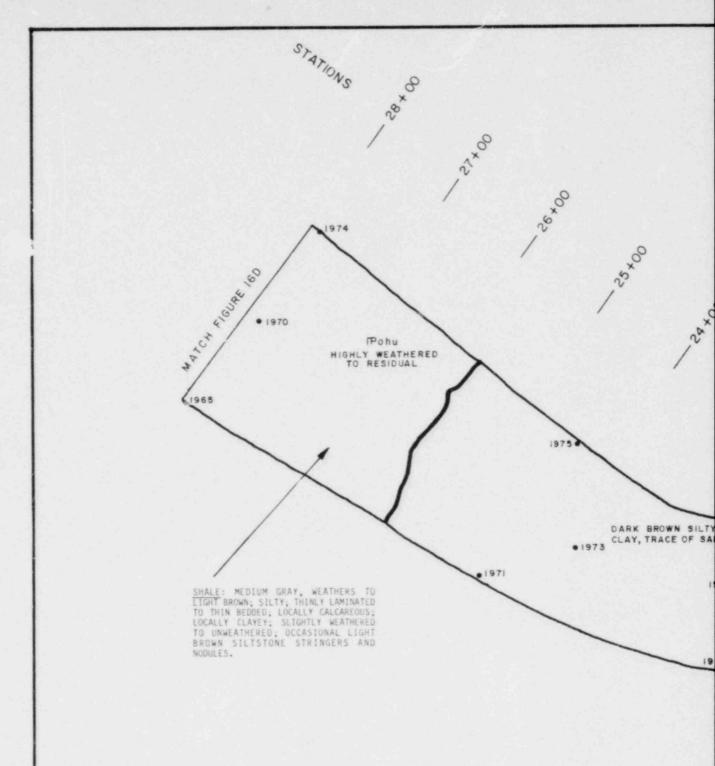
A. 13+00 TO STA. 17+30

FEET 0 100

WOLF CREEK GENERATING STATION UNIT NO. 1

> OF BAFFLE DIKE B FROM STA. 13+00 TO STA. 17+30

> > DAMES 6 MCORE

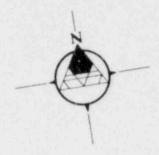


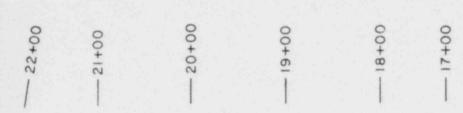
EXCAN FROM ST

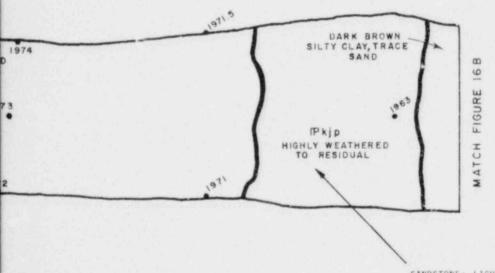
NOTES:

- 1. ELEVATIONS REFER TO SNUPPS DATUM.
- 2. COORDINATES REFER TO SURVEYORS STATIONS ALONG CENTERLINE OF BAFFLE DIKE "B". 3. SEE FIGURE 2 FOR AN EXPLANATION OF
- SYMBOLS USED IN MAPPING.
- 4. SEE FIGURE 16 FOR LOCATION OF FLOORS.

100







SANDSTONE: LIGHT BROWN, WEATHERS LIGHT YELLOWISH-ORANGE; FINE- TO VERY FINE-GRAINED; THIN TO MEDIUM BEDDED; SILTY; SOME CLAY; SLIGHTLY TO MODERATELY WEATHERED; LOCALLY HIGHLY WEATHERED AND CLAYEY.

ATION FOUNDATION
. 17+30 TO STA. 28+00

0 100

WOLF CREEK GENERATING STATION UNIT NC. 1

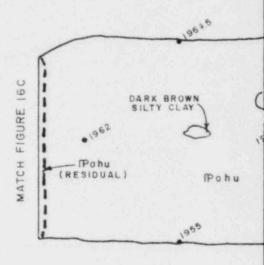
> OF BAFFLE DIKE B FROM STA. 17+30 TO STA. 28+00

> > DAMES ! LOOPE

STATIONS

- 50	00	00
32+	32 +	31+
1		





NOTES:

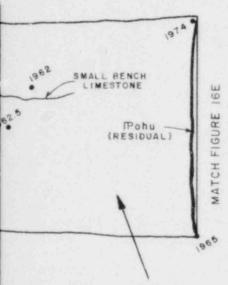
- 1. ELEVATIONS REFER TO SNUPPS DATUM.
- COORDINATES REFER TO SURVEYORS STATIONS
 ALONG CENTERLINE OF BAFFLE DIKE "B".
 SEE FIGURE 2 FOR AN EXPLANATION OF

- SYMBOLS USED IN MAPPING.
 4. SEE FIGURE 16 FOR LOCATION OF FLOORS.
 5. AREA SHOWN WAS EXCAVATED TO THE TOP OF ROCK.

EXCA FROM ST.

100





ATION FOUNDATION A. 28+00 TO STA. 32+50

FEET 0 100

WOLF CREEK GENERATING STATION UNIT NO. 1

OF BAFFLE DIKE B FROM STA. 28+00 TO STA. 32+50

DAMES & MOORE

47+00 46+00 SOME FINE SAND (ALLUVIAL 1964 45+00 44+00 1963 43+00 SHALE: MEDIUM GRAY, WEATHERS TO CIGHT BROWN, SILTY, THINLY LAMINATED TO THIN BEDDED, LOCALLY CALCAREOUS, LIGHTLY MEATHERED TO UNWEATHERED, OCCASIONAL LIGHT BROWN SILTSTONE STRINGERS AND 42+00 (HIGHLY WEAT 951 41+00 985

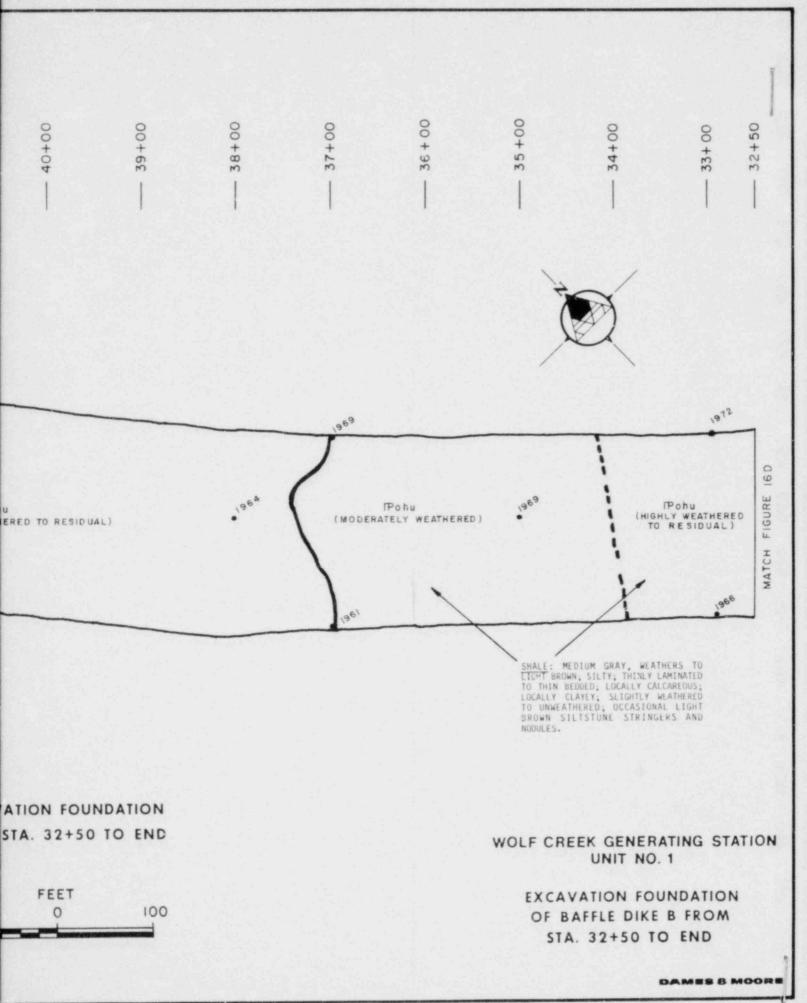
NOTES:

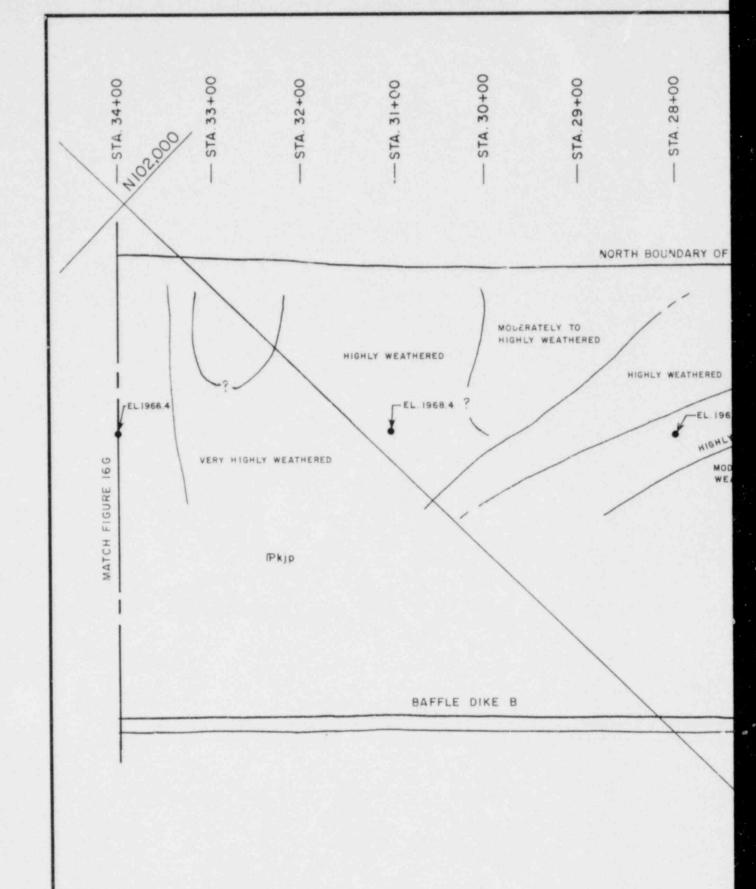
- 1. ELEVATIONS REFER TO SURPPS DATUM.
 2. COORDINATES REFER TO SURVEYORS STATIONS
 ALONG CENTERLINE OF BAFFLE DIKE "B".
 3. SEE FIGURE 2 FOR AN EXPLANATION OF
 SYMBOLS USED IN MAPPING.
 4. SEE FIGURE 16 FOR LOCATION OF FLOORS.

Name and

00

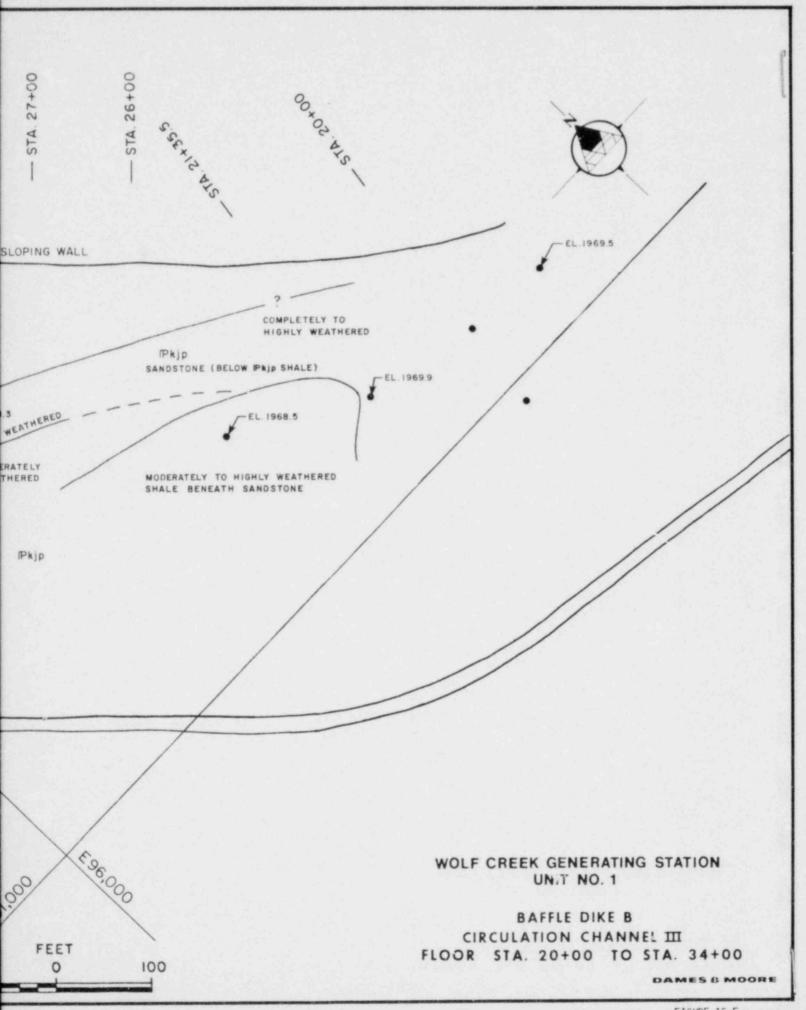
FROM EXCA

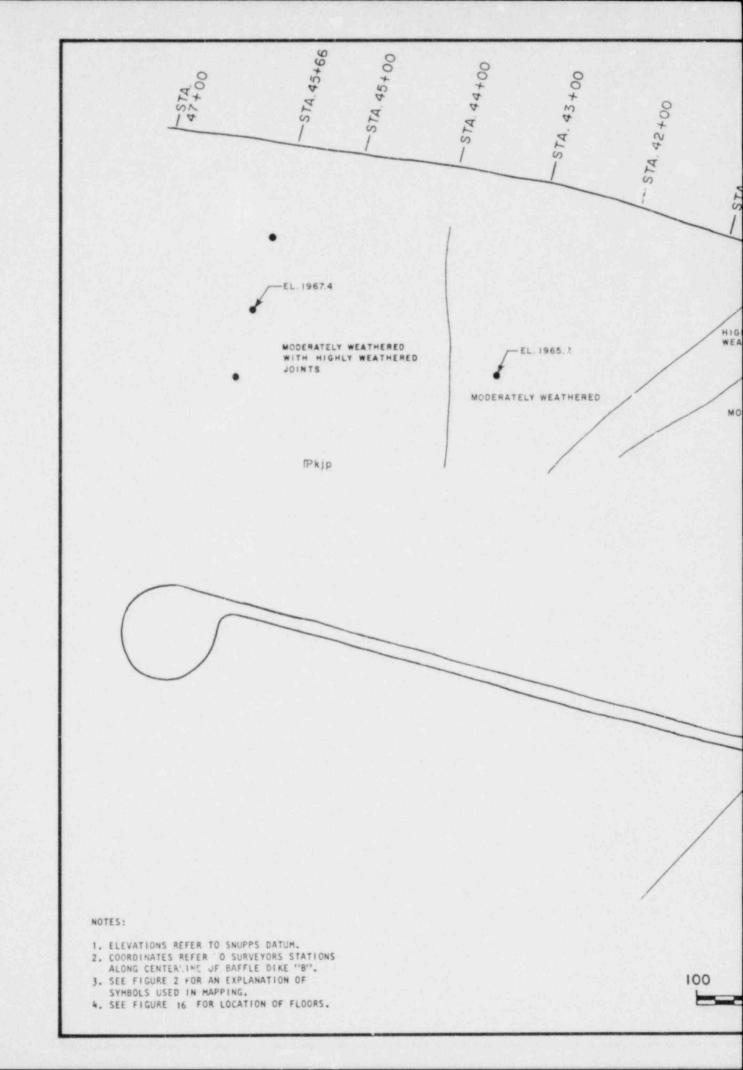


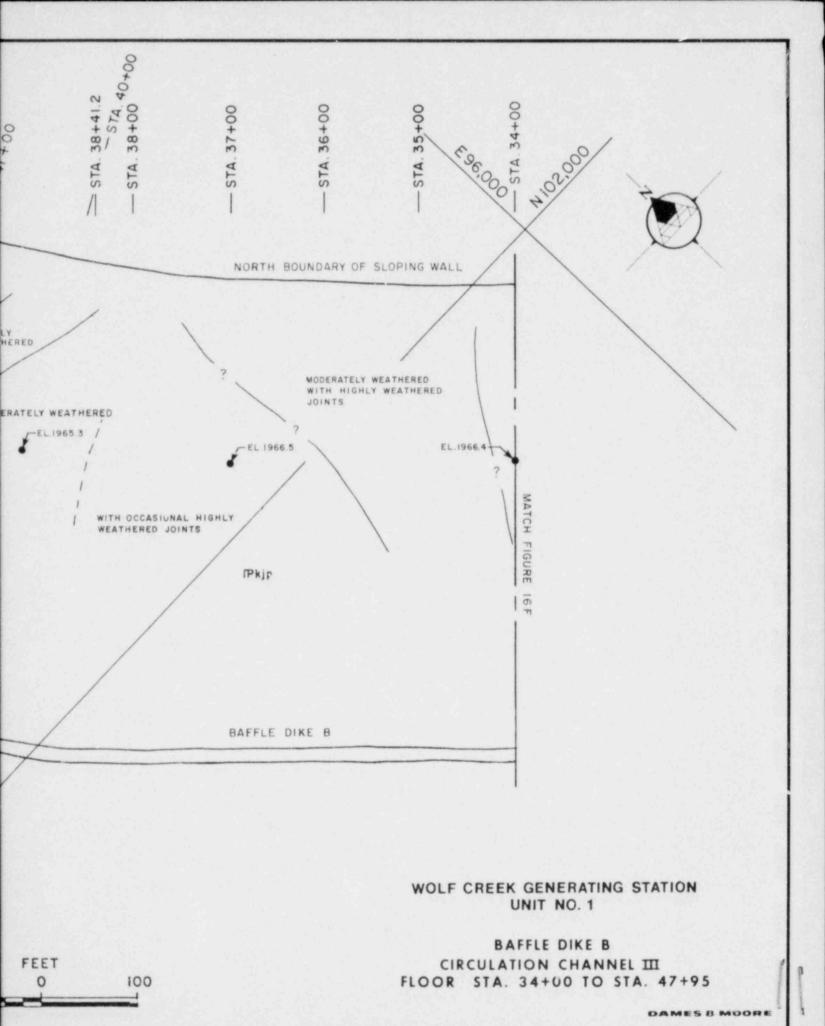


NOTES:

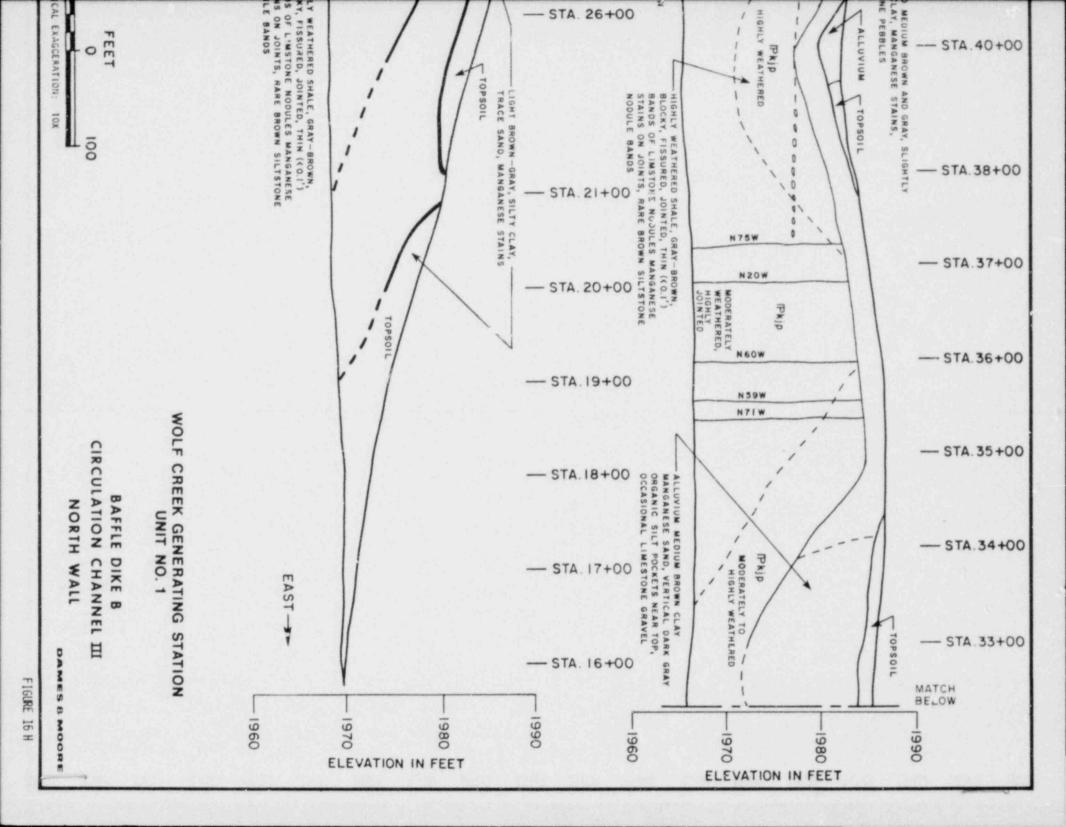
- ELEVATIONS REFER TO SNUPPS DATUM.
 COORDINATES REFER TO SURVEYORS STATIONS ALONG CENTERLINE OF BAFFLE DIKE "B".
- 3. SEE FIGURE 2 FOR AN EXPLANATION OF SYMBOLS USED IN MAPPING.
- 4. SEE FIGURE 16 FOR LOCATION OF FLOORS.

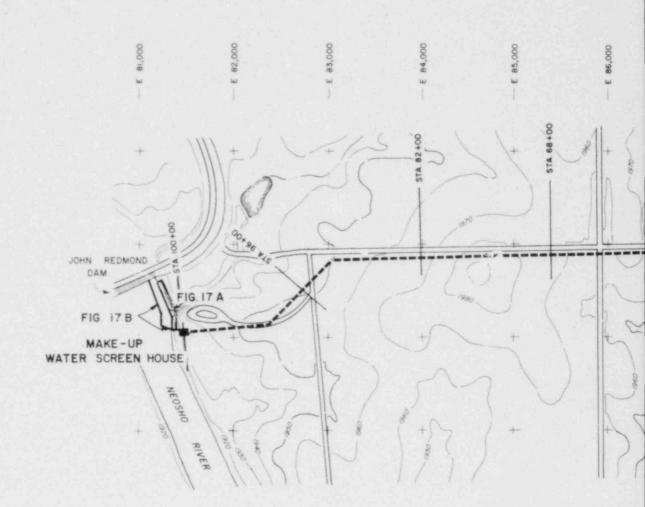






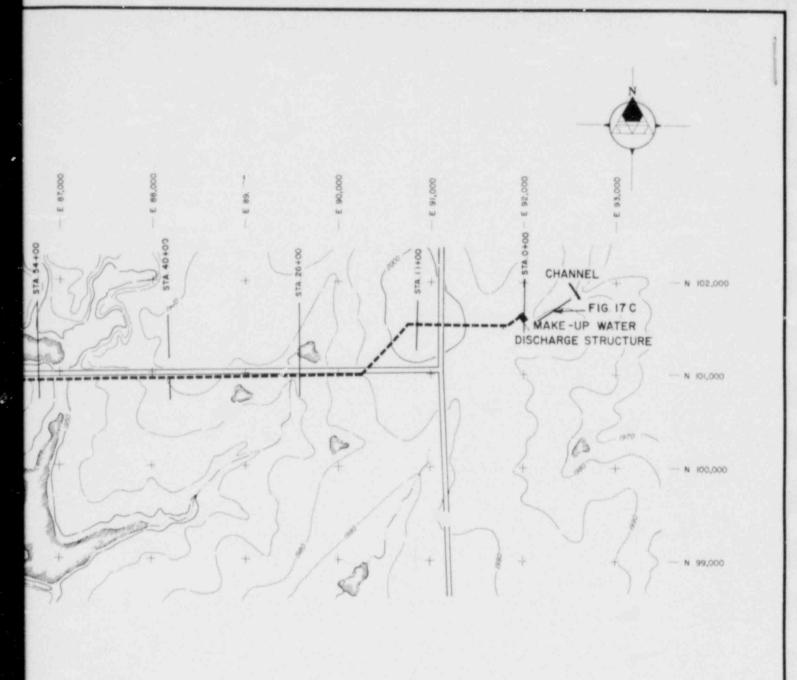
ELEVATION IN FEET ELEVATION IN FEET MEDIUM BROWN AND GRAY SANDY CLAY
MEDIUM SAND TO FINE GRAVEL (SILTSTONE
AND CREAM LIMESTONE) WITH WHITE
SAND STRINGERS NOTES: 1980 1980 1990 1960 1970 1990-1960 1970 ELEVATIONS REFER TO SURPS DATUM.
COORDINATES REFER TO SURVEYORS STATIONS
ALONG CENTERLINE OF BAFFLE DIKE "B".
SEE FIGURE 2 FOR AN EXPLANATION OF
SYMBOLS USED IN MAPPING.
SEE FIGURE 16 FOR LOCATION OF FLOORS. MATCH NTOE - STA. 32+00 WEST N5W TOPSOIL -NISW - STA. 31+00 ALLUVIUM MEDIUM BROWN STIFF CLAY MANGANESE SAND, VERTICAL DARK GRAY ORGANIC SILT POCKETS NEAR TOP, OCCASIONAL LIMESTONE GRAVEL N45E-N84E-STA. 45+00 NSOW NTOE NSW-STA. 30+00 N24W-NBOW STA.44+00 W N78W N89E N8E-DUEN Pkjp MODERATERY TO HIGHLY WEATHERED STA. 29+00 -STA. 43+00 MODERATELY TO HIGHLY WEATHERED, HIGHLY JOINTED, BLOCKY FISSURES -STA. 28+00 * * N57W PREDOMINATE JOINT DIRECT * N30E -- STA. 42+00 PKJP WEATHERED STA. 27+00 10 STA. 41+00 0 -00 SANDY LIMES BAN STA





MAKE-UI

1. COORDINATES REFER TO SNUPPS DATUM.
2. LOCATION OF STRUCTURES IS SHOWN ON FIGURE 1.



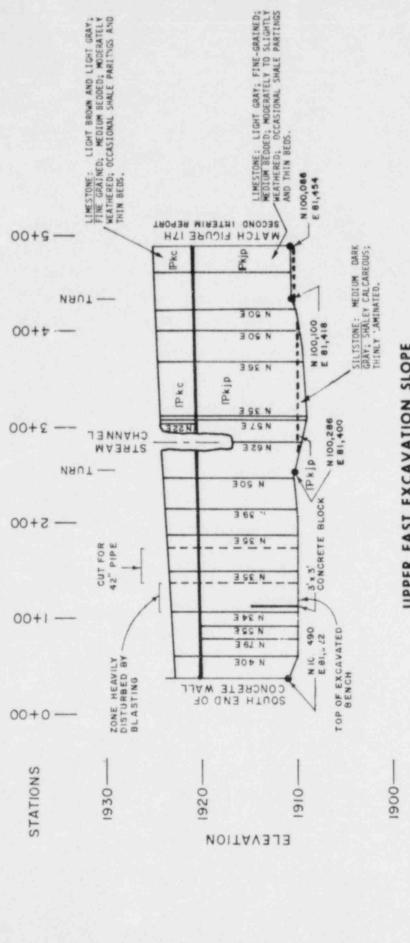
ATER SYSTEM



WOLF CREEK GENERATING STATION UNIT NO. 1

MAKE-UP WATER PIPELINE

Dames & Moore



UPPER EAST EXCAVATION SLOPE

WOLF CREEK GENERATING STATION UNIT NO. 1 UPPER EAST EXCAVATION SLOPE OF STA. 0+00 TO STA. 5+00 MAKE UP WATER SYSTEM INTAKE CHANNEL

DAMES 8 MOORE

SURVEYORS STATIONS ARE LOCATED ALONG ELEVATIONS AND COORDINATES REFER TO

SNUPPS DATUM.

NOTES:

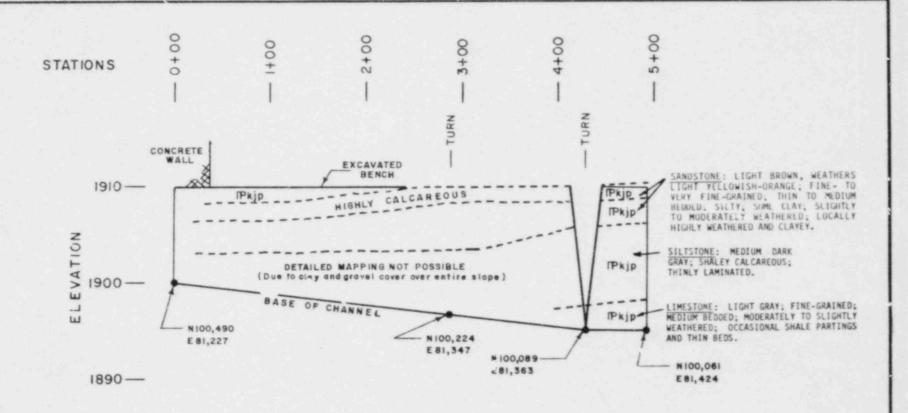
CENTERLINE OF CHANNEL.

SEE FIGURE 2 FOR AN EXPLANATION OF SYMBOLS USED IN MAPPING.

SEE FIGURE 17 FOR LUCATION.

SLOPE IS APPROXIMATELY VERTICAL.

+ wi



LOWER EAST EXCAVATION SLOPE

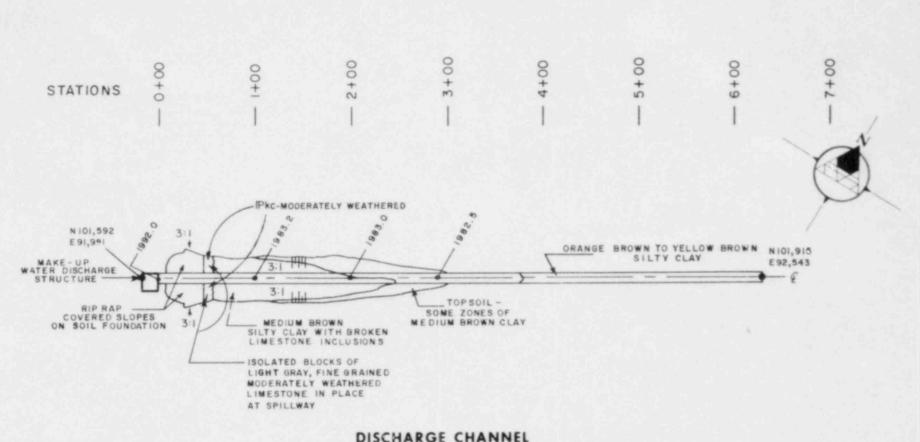
NOTES:

- ELEVATIONS AND COORDINATES REFER TO SNUPPS DATUM.
- SURVEYORS STATIONS ARE LOCATED ALONG CENTERLINE OF CHANNEL.
- SEE FIGURE 2 FOR AN EXPLANATION OF SYMBOLS USED IN MAPPING.
- 4. SEE FIGURE 17 FOR LOCATION.
- 5. SLOPE IS APPLIXIMATELY 2 VERTICAL TO 1 HORIZONTAL.

WOLF CREEK GENERATING STATION UNIT NO. 1

LOWER EAST EXCAVATION SLOPE OF MAKE UP WATER SYSTEM INTAKE CHANNEL STA. 0+00 TO STA. 5+00





DISCHARGE CHANNEL

NOTES:

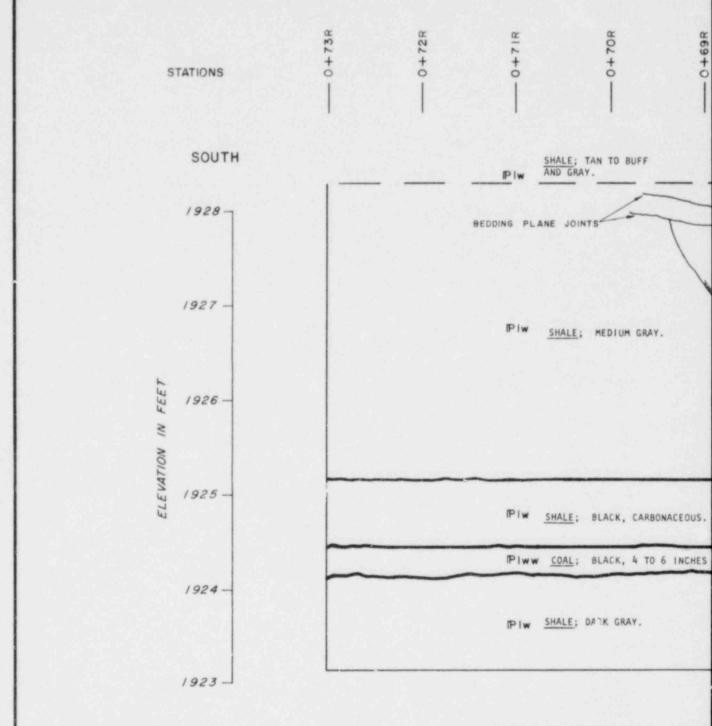
- 1. ELEVATIONS AND COORDINATES REFER TO SNUPPS DATUM.
- 2. SURVEYORS STATIONS ARE LOCATED ALONG CENTERLINE OF CHANNEL.
- 3. SEE FIGURE 2 FOR AN EXPLANATION OF SYMBOLS USED IN MAPPING.
- 4. SEE FIGURE 17 FOR LOCATION.

WOLF CREEK GENERATING STATION UNIT NO. 1

MAKE UP WATER SYSTEM DISCHARGE CHANNEL FROM STA. 0+00 TO STA. 6+30

APPENDIX

This appended section contains revisions to three figures presented in the Second Interim Report - Results of Geologic Excavation Mapping (Dames & Moore, 1979).

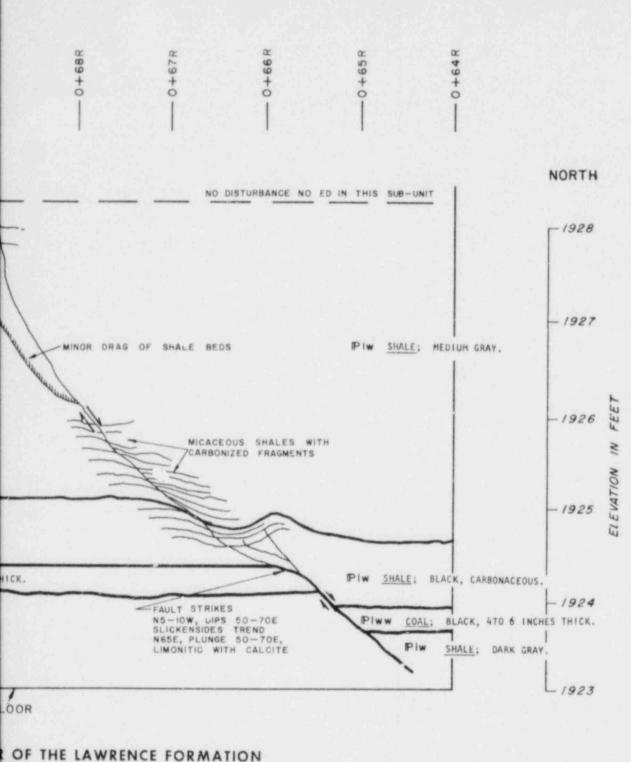


NOTES:

- 1. ELEVATIONS REFER TO SNUPPS DATUM.
- 2. COORDINATES REFER TO SURVEYORS STATIONS ALONG CENTER LINE OF LOW LEVEL OUTLET, MEASURED NORTH AND SOUTH FROM CENTERLINE OF MAIN DAM.
- 3. SEE FIGURE 2 FOR AN EXPLANATION OF SYMBOLS USED IN MAPPING.
- 4. SEE FIGURE 9 FOR LOCATION.
- 5. SLOPE IS APPROXIMATELY VERTICAL.

FAULT IN UNNAMED MEMB WEST EX LOW

NO VER



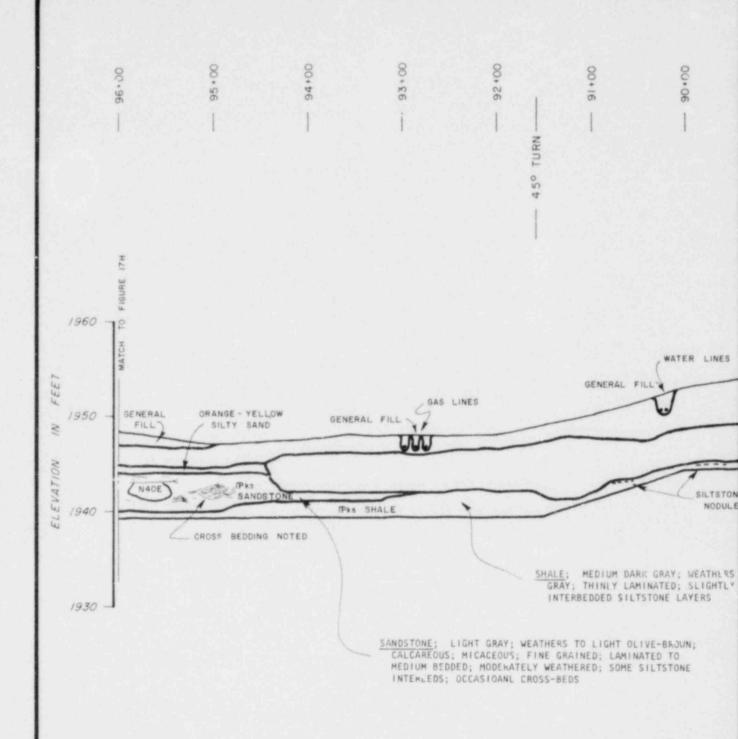
OF THE LAWRENCE FORMATION AVATION SLOPE EVEL OUTLET

O I
CAL EXAGGERATION

REVISION 1 MAY, 1981

WOLF CREEK GENERATING STATION
UNIT NO. 1

WEST EXCAVATION SLOPE FOR LOW-LEVEL
OUTLET TUNNEL BENEATH MAIN DAM

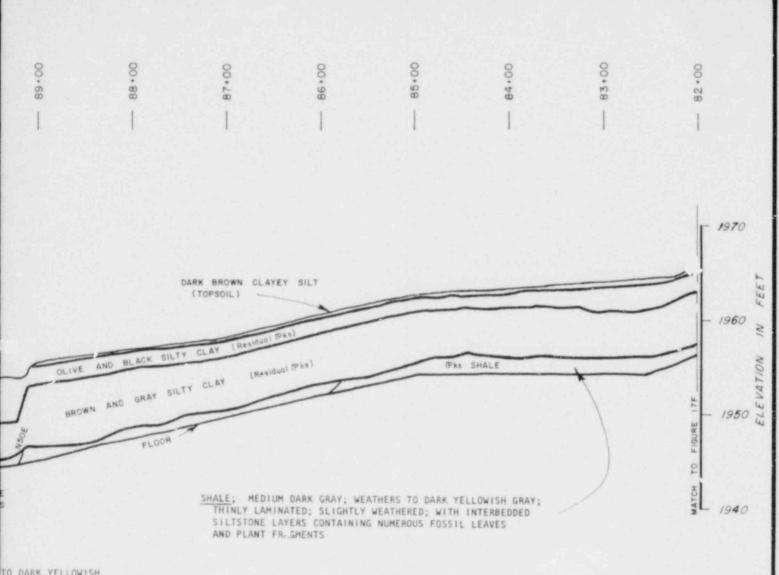


NORTH EXC

NOTES:

- 1. ELEVATIONS REFER TO SNUPPS DATUM.
- COORDINATES REFER TO SURVEYORS' STATIONS ALONG CENTERLINE OF MAKE-UP WATER LINE.
- SEE FIGURE 2 FOR AN EXPLANATION OF SYMBOLS USED IN MAPPING.
- 4. SEE FIGURE 16 FOR LOCATION OF EXCAVATION SLOPES.
- 5. THE FEATURES ON THIS MAP WERE OBSERVED FROM ABOVE THE EXCAVATION SO AS NOT TO HINDER THE PROGRESS OF THE CONTRACTOR. SOME DETAILS MAPPED AFTER PIPE SECTION WAS IN PLACE.
- 6. SLOPE IS APPROXIMATELY VERTICAL.

VERTICAL EXAC



TO DARK YELLOWISH WEATHERED; WITH

AVATION SLOPE

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WOLF CREEK GENERATING STATION UNIT NO. 1

NORTH EXCAVATION SLOPE OF MAKE UP WATER SYSTEM FROM STA. 82+00 TO STA. 96+00

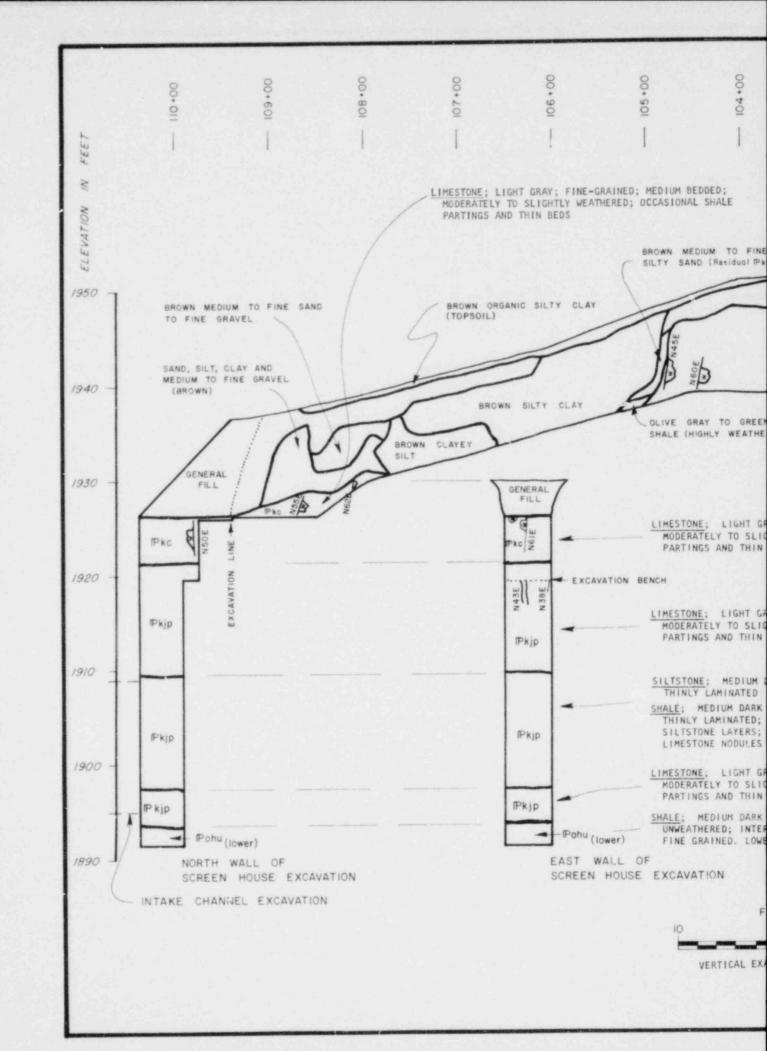
DAMES 8 MOGRE

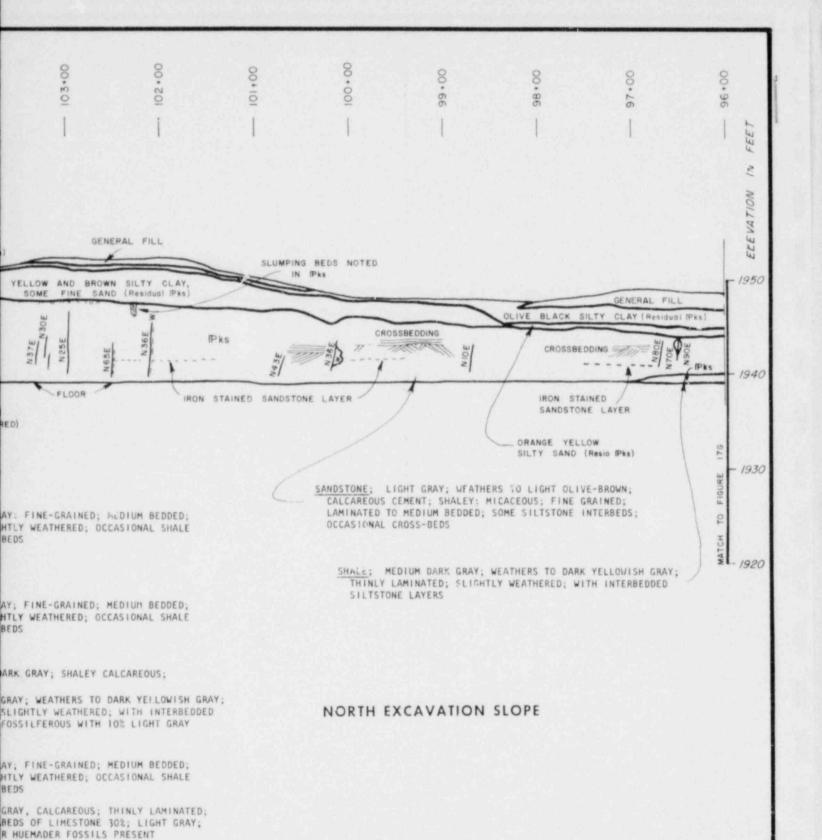
GERATION: 10X

10

EET

(A-2) FIGURE 17G





10

GGERATION: 10X

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WOLF CREEK GENERATING STATION UNIT NO. 1

MAKE UP WATER SYSTEM
FROM STA. 96+00 TO SCREEN
HOUSE EXCAVATION

DAMES 8 MOORE