DOE/OR/21548-030

United States Department Of Energy

GEOLOGICAL CROSS-SECTION MATERIAL STAGING AREA

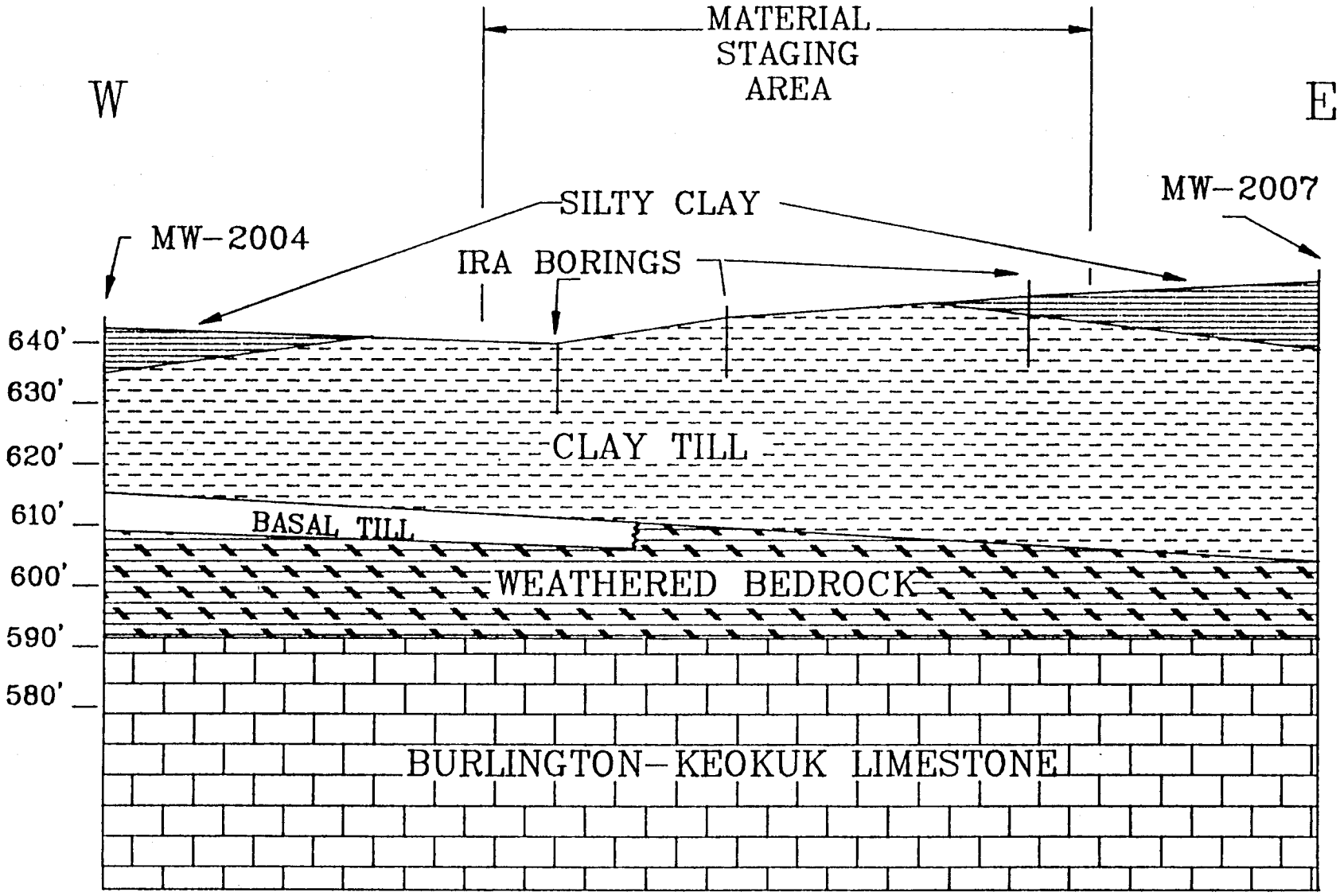
MAY 9, 1988

REV. O

WELDON SPRING SITE REMEDIAL ACTION PROJECT

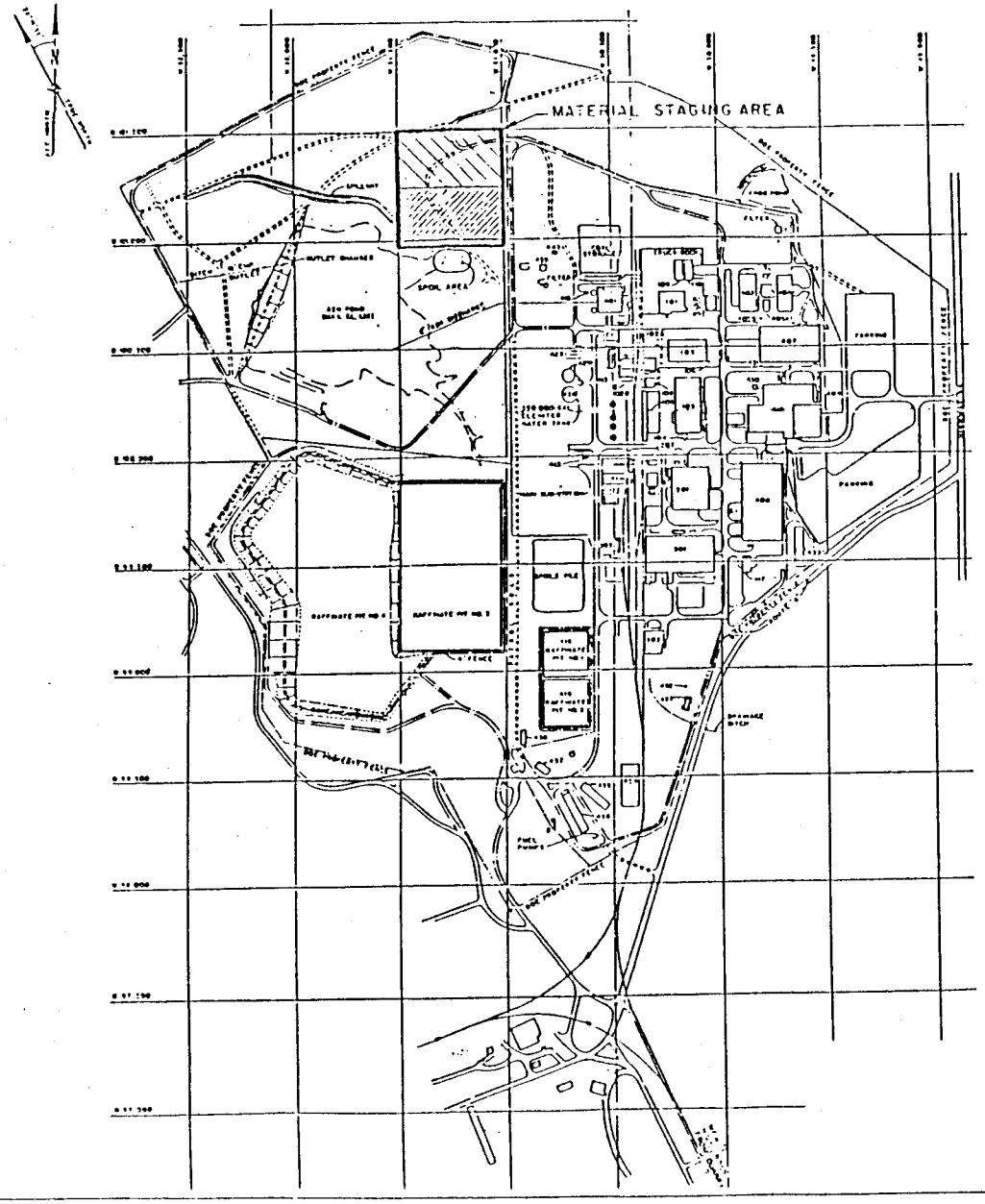
GEOLOGICAL CROSS-SECTION

The attached geological cross-section is shown to provide subsurface information concerning the geological conditionsof the material staging area (MSA). The staging pad is situated over about 30 feet of clay till. This till generally has a permeability of approximately 10-7 cm/second over the site. The specifications for the MSA provides excavation and recompaction of the upper 12" to assure a permeability of 10-7 cm/sec.



MATERIAL STAGING AREA CROSS-SECTION

WEST-EAST SECTION LOOKING NORTH



BUILDING OR AREA	DESIGNATION
101	FEED PREPARATION AND SAMPLING PLANT
102A	RETENTION TANK FARM
102B	RETENTION TANK FARM
103	DIGESTION AND DENITRATION
104	LIME STORAGE
105	TBP AND ETHER EXTRACTION
106	PROOF SAMPLER
107	
108	NITRIC ACID RECOVERY
109	DRUM STORAGE
110	DRUM STORAGE
201	GREEN SALT PLANT
202	GREEN SALT TANK FARM
301	METALS PLANT
302	MAGNESIUM SEPARATION BUILDING
303	CHIP STORAGE
401	STEAM PLANT
402	
403	CHEMICAL PILOT PLANT
404	METALLURGICAL PILOT PLANT
405A	PILOT PLANTS AUXILIARY
405B	PILOT PLANT AUXILIARY
406	WAREHOUSE
407	LABORATORY
408	MAINTENANCE AND STORES
409	ADMINISTRATION
410	OFFICES
411	ELECTRICAL SUBSTATION
412	ELECTRICAL SUBSTATION
413	COOLING TOWER AND PUMP HOUSE
414	SCRAP CLASSIFICATION AND EQUIPMENT STORAGE
415	CLAY BINDER INCINERATOR
416	SEDIMENTATION PITS 1 & 2
417	PAINT SHOP
418	ELEVATED WATER TANK
419	PRIMARY SEWAGE TREATMENT PLANT
420	PROPANE AND BUTANE GAS PLANT
421	RESERVE WATER FACILITIES
430	AMBULANCE GARAGE
431	PROOF SAMPLER
432	PROOF SAMPLER
433	STORAGE
434	STORAGE
435	STORAGE
436	STORAGE
437	STORAGE
438	STORAGE
439	FIRE TRAINING
441	CYLINDER STORAGE
443	FIRE TRAINING STORAGE

NOTES:

1. REFINERY TANK FARM AREA ARE APPROXIMATE BASED ON AERIAL SURVEY
2. REFERENCE MONUMENT COORDINATES IN FEET

SEC. 6410	6415 HORIZ. GRID
N 100 000	N [illegible]
W 30 000	E [illegible]

LEGEND:

LOCATION OF PROPOSED MATERIAL STAGING AREA PHASE I

LOCATION OF PROPOSED MATERIAL STAGING AREA PHASE II

100 0 100 200
SCALE FEET

FIGURE 2

PROPOSED SITE FOR MATERIAL STAGING AREA