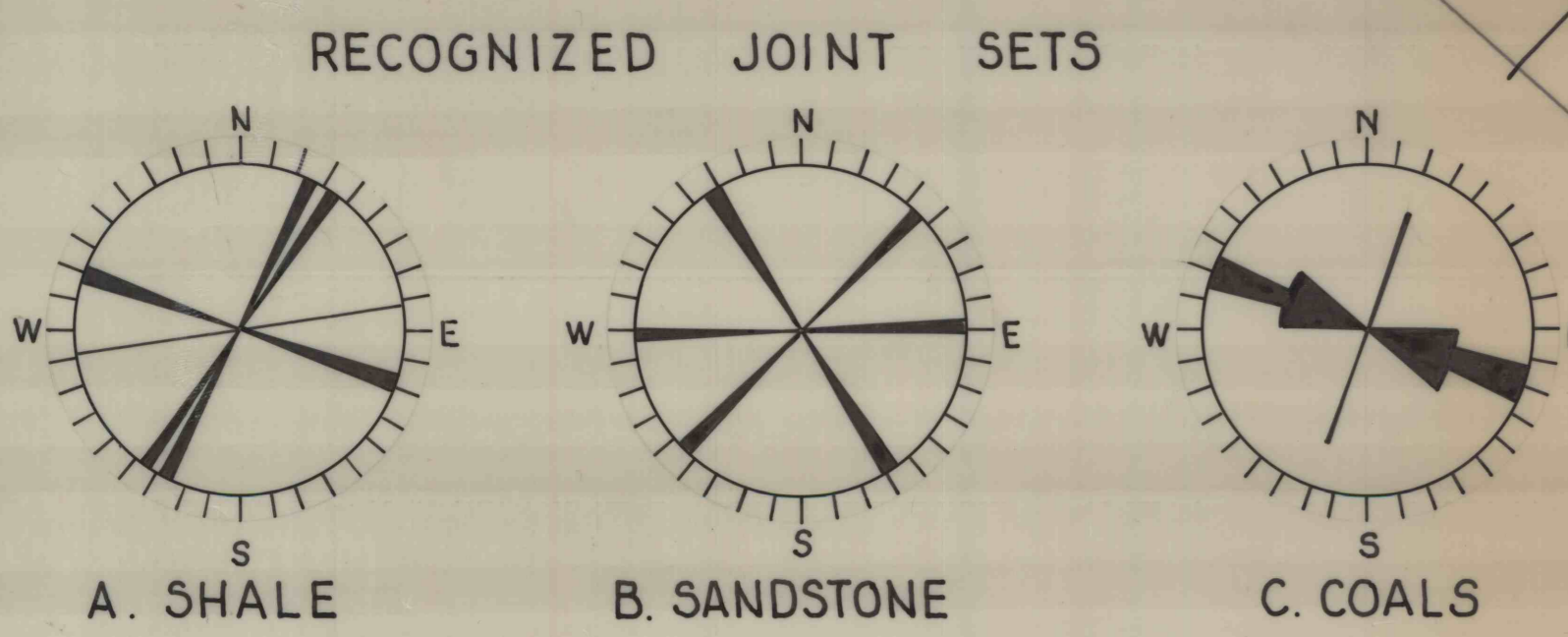


GRAPEVILLE-KINTER HILL
ANTICLINE
AXIS APPROX. 8000' NW OF
REFUSE AREA
REGIONAL STRUCTURE

REGIONAL DIP
2 1/2%
200'



*Nickelsen, R.P. and Hough, V.N.D. 1967, Jointing In The Appalachian Plateau Of Pennsylvania. Geol. Soc. America Bull., V.78 pg. 609-629.

EXHIBIT 63
MODULE 6.3
GEOLOGIC DATA MAP
TUNNELTON MINING COMPANY
MARION MINE
COAL REFUSE DISPOSAL SITE
SITUATE
CONEMAUGH TWP, INDIANA CO., PA.
SCALE: 1"=100' SEPT. 1983

- LEGEND:
- ⊙ Surface Water Monitoring Station*
 - △ Groundwater Inventory Well
 - ▲ Groundwater Inventory Well Used For Background Sampling
 - Background Water Sampling Location Related To The Refuse Area
 - ⊠ Groundwater Monitoring Wells*
 - ⊙ Drill Holes
 - ⊙ E' Seam Deep Mine Works
 - Structure Contours On The E' Seam
 - Local Groundwater Flow Direction
 - Regional Groundwater Flow Direction
 - Fence Diagram Section Lines
 - ⊠ Permit Area
 - ⊠ NPDES Monitoring Point
- * Point also serving as background and inventory Stations

LOCAL STRIKE & DIP
SHALE 40°
SANDSTONE 15°

REGIONAL STRUCTURE
GREENSBURG SYNCLINE
AXIS APPROX. 8000' SE
OF REFUSE AREA

NOTE:
ENTIRE SITE UNDERLAIN BY CARMICHAELS
CLAY ALLOUVIUM.

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