

Fig. 3 CROSS SECTION ALONG A - A'

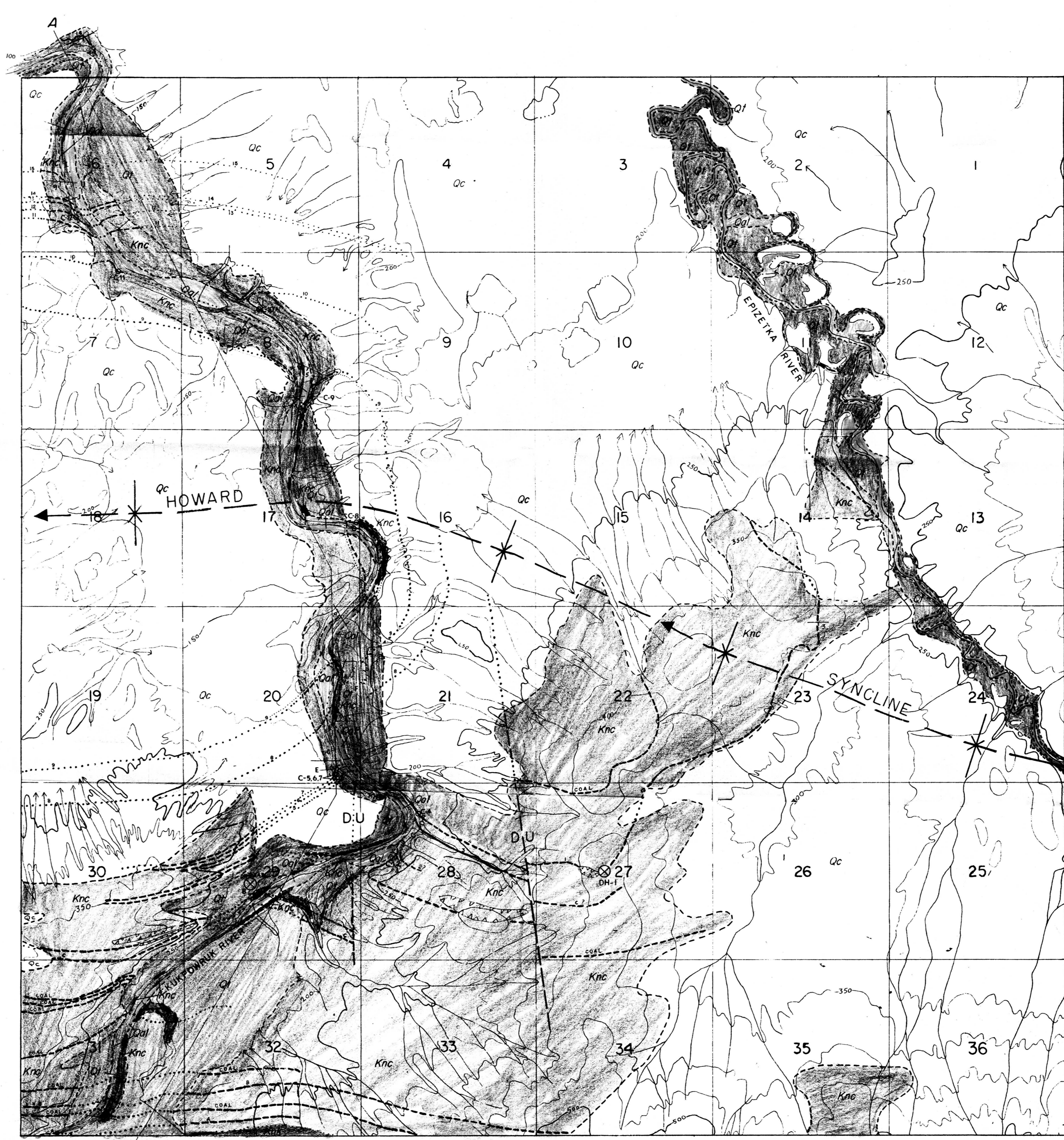


Fig. 2 - GEOLOGIC MAP AND COAL RESOURCES OF TOWNSHIP I SOUTH, RANGE 44 WEST, U.P.M., KUKPOWRUK COAL FIELD, ALASKA

- EXPLANATION**
- Quaternary
    - Alluvium
    - Sand and gravel
    - Stream terrace deposits
    - Soil and colluvium
  - Cretaceous
    - Upper and Lower Cretaceous
      - Corwin Formation
        - Interbedded silty claystone or shale, siltstone, and very fine to medium grained sandstone with many coal beds as much as 22 feet thick. Ironstone is abundant, and conglomerate or conglomeric sandstone is present in small quantities.
      - Kukpowruk Formation
        - Interbedded fine-grained sandstone and claystone. The sandstone is thin bedded and irregularly bedded.
    - Marker bed
      - Black fissile shale overlying coal bed 9. Dashed where approximately located; dotted where concealed.
    - Coal bed
      - Dashed where approximately located or where location is based on coal flow; dotted where concealed; queried where doubtful or inferred. Numerals or letters indicate bed numbers in text. This bed is designated "coal".
    - Glittered area
      - Baked and fused rock
    - Contact approximately located
    - Fault
      - Dashed where approximately located; dotted where concealed or inferred. U, upthrown side; D, downthrown side
    - Axle of syncline
    - Strike and dip of beds
    - Measured coal section and sample locality
    - Circle may indicate both coal section and sample locality
    - Drill hole
    - Adit

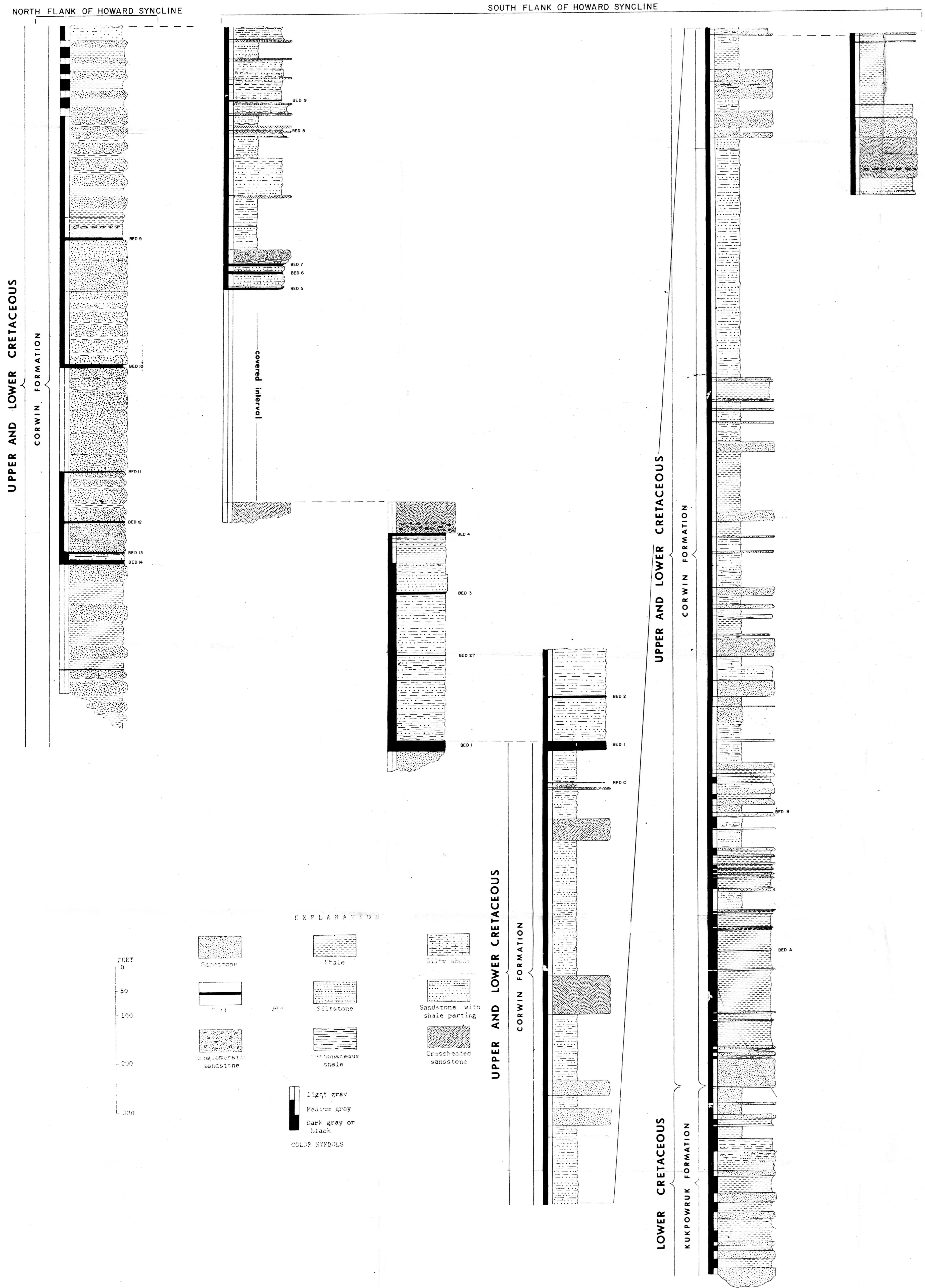


Fig. 4 STRATIGRAPHIC SECTIONS OF A PART OF THE CORWIN FORMATION ON THE HOWARD SYNCLINE ALONG KUKPOWRUK RIVER, NORTHERN ALASKA

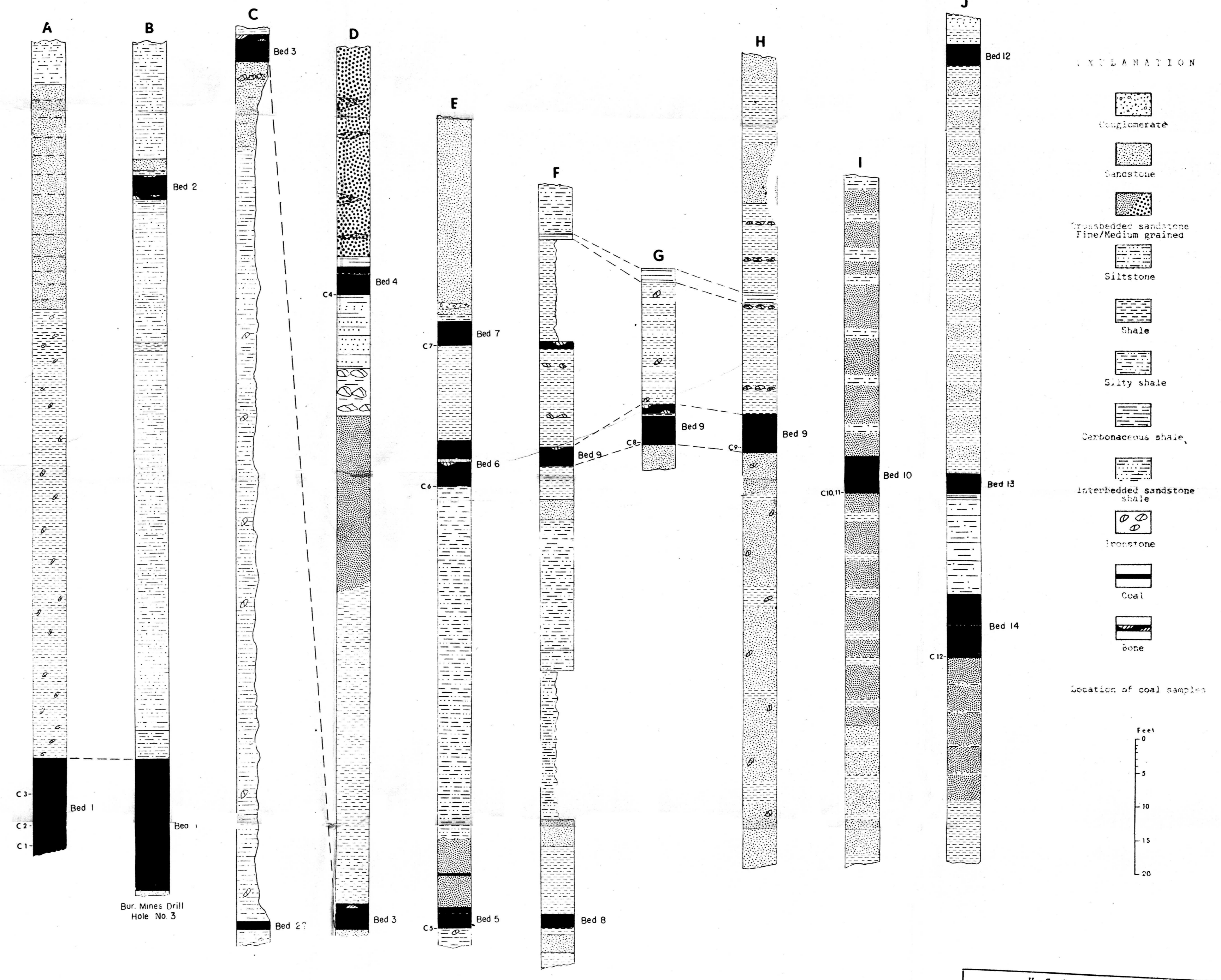


Fig. 5 COAL BEDS IN THE CORWIN FORMATION, HOWARD SYNCLINE, KUKPOWRUK RIVER, NORTHERN ALASKA

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