UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STATE OF UTAH
UTAH GEOLOGICAL AND MINERAL SURVEY

SCOFIELD QUADRANGLE
UTAH
7.5 MINUTE SERIES (TOPOGRAPHIC)
NW/4 SCOFIELD 15' QUADRANGLE

Mapped, edited, and published by the Geological Survey

Control by USGS, NOS/NOAA and U. S. Forest Service

Topography by photogrammetric methods from aerial photographs taken 1970. Field checked 1974. Map edited 1979.

Projection and 10,000-foot grid ticks: Utah coordinate system, central zone (Lambert conformal conic) 1000-meter Universal Transverse Mercator grid ticks, zone 12, shown in blue. 1927 North American datum

Fine red dashed lines indicate selected fence lines

There may be private inholdings within the boundaries of the National or State reservations shown on this map

UTM GRID AND 1979 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET
GN MN 0°07' 2 MILS 15° 267 MILS

SCALE 1:24 000
1 ½ 0 1 MILE
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 .5 0 1 KILOMETER

CONTOUR INTERVAL 80 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

QUADRANGLE LOCATION
UTAH

ROAD CLASSIFICATION
Primary highway, hard surface
Light-duty road, hard or improved surface
Secondary highway, hard surface
Unimproved road
Interstate Route
U. S. Route
State Route

SCOFIELD UTAH
NW/4 SCOFIELD 15' QUADRANGLE
N3937.5—W11107.5/7.5
1979
DMA 3763 II NW—SERIES V897

PLATE 1
INTERIM GEOLOGIC MAP OF THE SCOFIELD QUADRANGLE, CARBON, EMERY, AND SANPETE COUNTIES, UTAH
by Steven Paul Knowles

Utah Geological Survey
Open-File Report 341, November 1996
Field work done during 1981.

PLATE 2

INTERIM GEOLOGIC MAP OF THE SCOFIELD QUADRANGLE, CARBON, EMERY, AND SANPETE COUNTIES, UTAH

by Steven Paul Knowles
Utah Geological Survey

Open-File Report 341, November 1996

Field work done during 1981.
Map drafted from paper original in 1996 by Michael Wright.
Cross section modified from paper original; line of section not on original map; drafted by Chuck Williamson.

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MAP UNITS (AND GEOMORPHIC FEATURES)

QUATERNARY

- Qal — Alluvium
- Qcl — Colluvium
- Qgr — Gravel
- Qaf — Alluvial Fan
- Qc — Cirque
- Qm — Moraine
- Qtm — Terminal Moraine
- Qt — Tarn (Lake)
- Qk — Kettle (Hole)
- Qls — Landslides and Slumps
- Qlsz — Landslide Zone

TERTIARY AND CRETACEOUS

- TKi — Igneous Dikes (cross section only) - Lamprophyre, minette, and nephelinite.
- TKnh — North Horn Formation

CRETACEOUS

- Kp — Price River Formation
- Kc — Castlegate Formation
- Kb — Blackhawk Formation - Upper O'Conner coal bed at base.
- Starpoint Sandstone
  - Ksu — Upper Member - Actually intertonguing Blackhawk Formation, and Spring Canyon and Storrs Tongues; includes Columbine and lower O'Conner coal beds with Flat Canyon coal bed at base.
  - Ksm — Middle Member - Panther Tongue.
- Kmt — Mancos Shale Tongue
- Starpoint Sandstone
  - Ksl — Lower Member

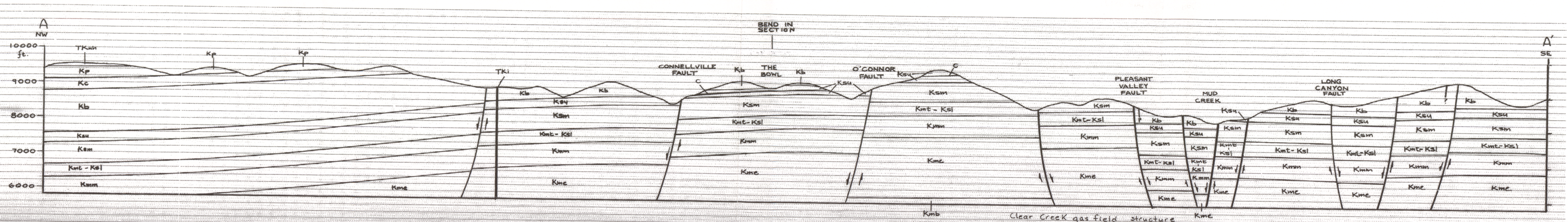
Cross section only

Mancos Shale

- Kmm — Masuk Member
- Kme — Emery Member
- Kmb — Bluegate Member

MAP SYMBOLS

- Contacts - Dashed where approximately located, short dashes where inferred.
- Coal Beds - Dashed where approximately located, short dashes where inferred, hatchured where oxidized.
- Faults - Dashed where approximately located, short dashes where inferred, dotted where concealed, and bar and ball on downthrown side, with arrows showing direction of movement on cross section.
- Igneous Dikes - Based on surficial, mining, and magnetic information.
- Structural Contours - Elevation in feet, on top of upper O'Connor coal bed. (8000)
- Line of Cross Section (A – A')
- Strike and Dip of Bedding (16)
- Vertical Joint
- Bedding Features
  - Paleocurrent - Arrow shows flow direction.
  - Ripple Marks - Arrow shows flow direction.
  - Cross Bedding - Strike and dip.
- Oil and Gas Boreholes
  - Gas Well
  - Dry Hole
- Adit
- Prospect



Clear Creek gas field structure is below bottom of cross section