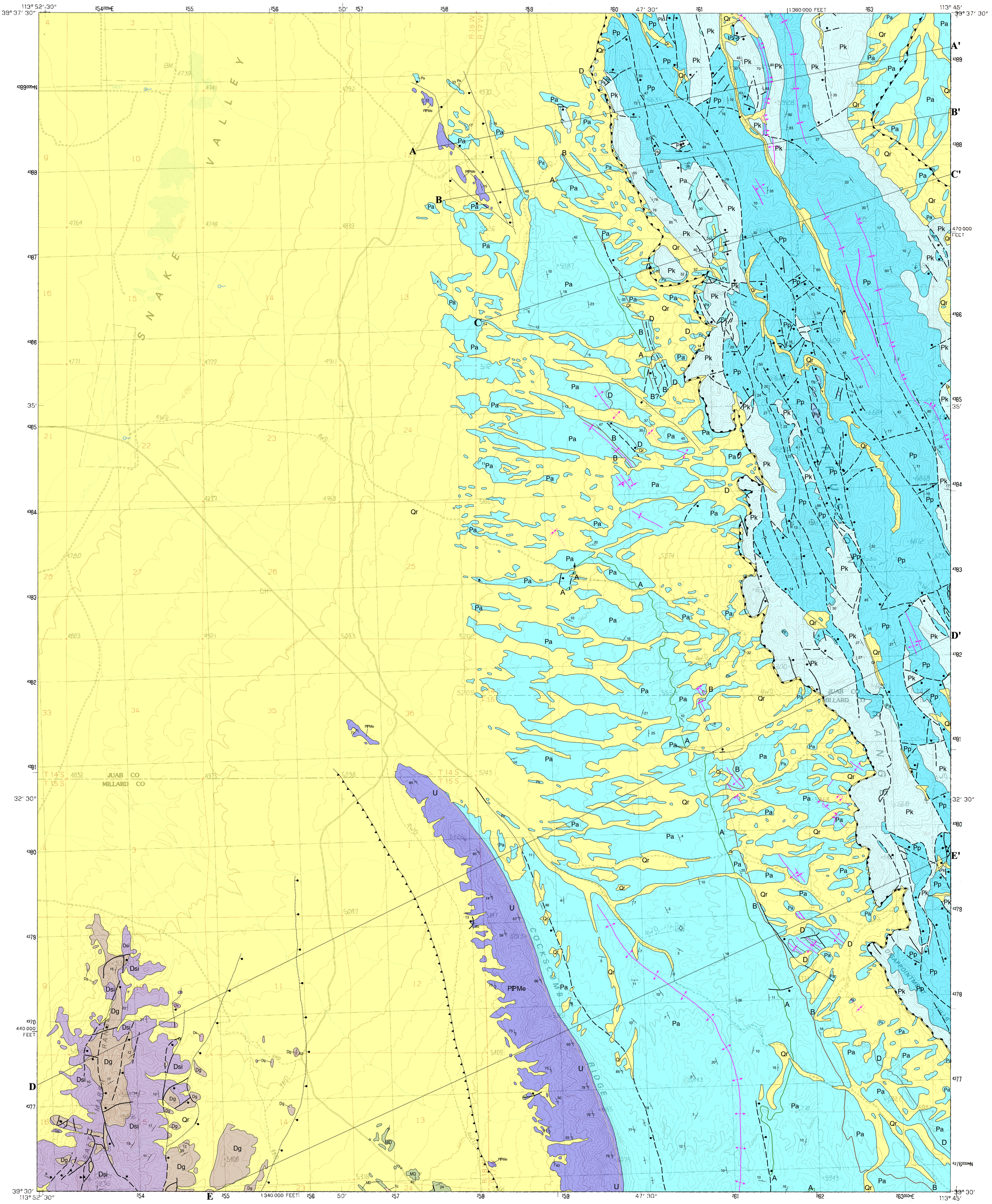

SCALE 1:24,000

1 0.5 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 0.5 0 1 KILOMETER

CONTOUR INTERVAL 40 FEET

Utah Geological Survey Open-File Report 682DM

Geologic Map of the Trout Creek SE Quadrangle, Juab and Millard Counties, Utah
(GIS Reproduction of USGS Map I-827)
by
Richard K. Hose

2018

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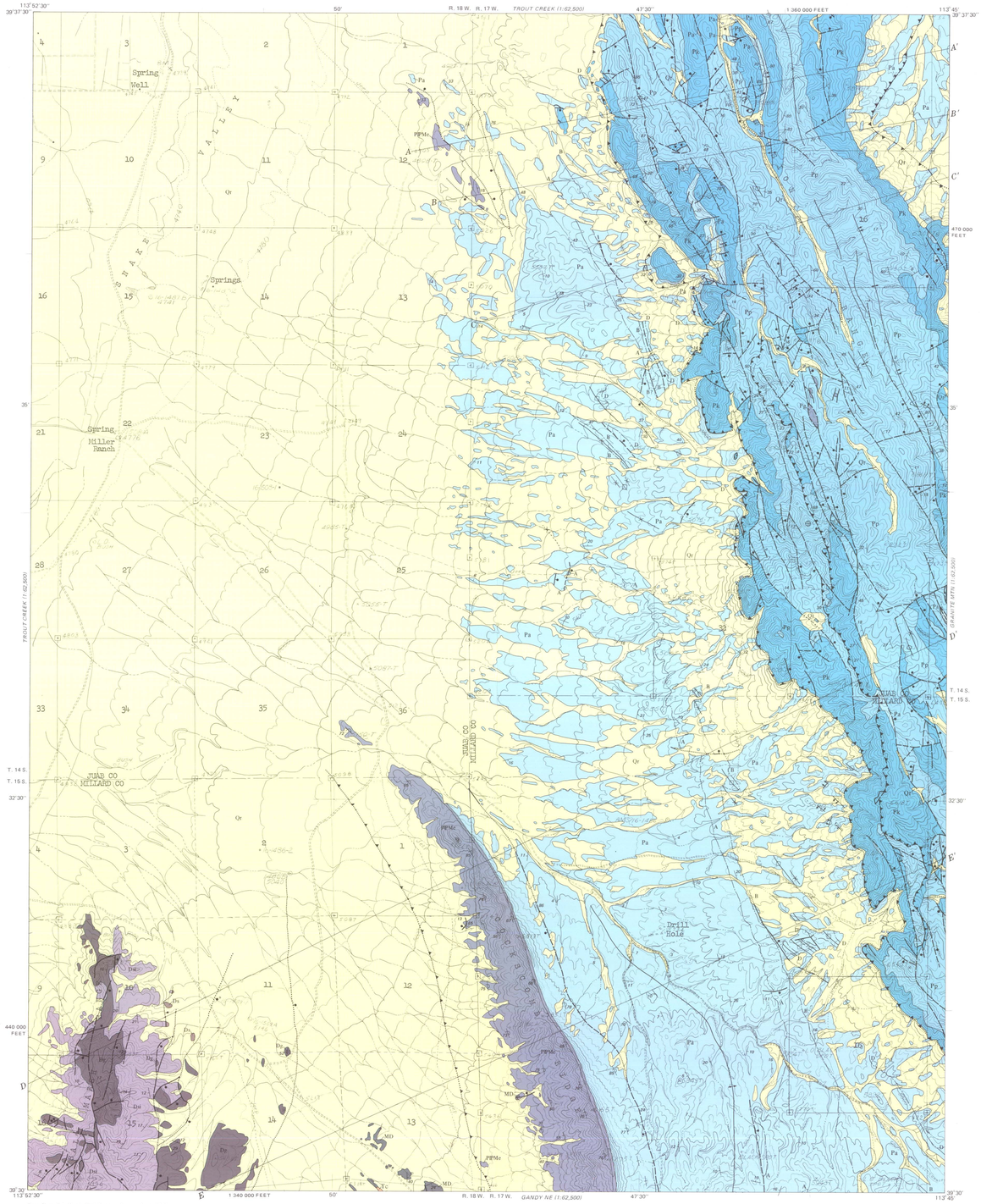
DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

MISCELLANEOUS INVESTIGATIONS SERIES
MAP I-827



Base from U.S. Geological Survey advance sheet, 1961
1000 meter Universal Transverse Mercator grid ticks

SCALE 1:24 000

1 ½ 0 1 MILE

1 .5 0 1 KILOMETER

CONTOUR INTERVAL 40 FEET
DASHED LINES REPRESENT 20 FOOT CONTOURS
DATUM IS MEAN SEA LEVEL

Geology mapped in 1971

CORRELATION OF MAP UNITS

Qr	QUATERNARY
Unconformity	
Tc	TERTIARY (Pliocene(?))
Unconformity	
Pg, Pp, Pk, Pa (Park City Group)	PERMIAN
Unconformity	
PPMe	PENNSYLVANIAN
MD	MISSISSIPPIAN
Dg, Dsi	DEVONIAN
Ds	DEVONIAN
SUBSURFACE UNITS	
SO	SILURIAN AND ORDOVICIAN

DESCRIPTION OF MAP UNITS

Qr UNCONSOLIDATED MATERIAL OF DIVERSE ORIGIN

Tc CONGLOMERATE – Moderately well indurated; derived from Paleozoic and Cenozoic units

PARK CITY GROUP (Permian)

Pg GERSTER FORMATION – Brownish-gray, organic-detrital, fossiliferous, partly argillaceous limestone; 1,100 feet thick

Pp PLYMPTON FORMATION – Yellowish-gray to very light gray cherty dolomite; chert as beds and nodules; some reddish and yellowish siltstone; 690 feet thick

Pk KAIBAB LIMESTONE – Massive resistant light-gray coarse-grained organic-detrital limestone; 500 feet thick

Pa ARCTURUS FORMATION (Permian) – Yellowish-gray calcareous fine-grained sandstone, with ledge-forming beds of dolomite and limestone, three of which are mapped as A, B, and D, and some gypsum; about 3,000 feet thick

PPMe ELY LIMESTONE OF HOSE AND REPENNING (1959 (Permian, Pennsylvanian, and Mississippian) – Includes the equivalent of the Permian Riepe Spring Limestone of Steele (1960); medium- to yellowish-gray, ledgy, cherty, organic-detrital limestone, with slope-forming units of silty limestone, fossiliferous; 1,800-2,000 feet thick

MD CHAINMAN AND PILOT SHALES, UNDIVIDED (Mississippian and Devonian) – Consists of a lower light-grayish-yellow dolomitic siltstone and an upper series of very dark gray shale and dark-gray fine-grained bituminous limestone; fossiliferous; about 2,100 feet thick. Joana Limestone, which usually intervenes, is absent in map area

Dg GUILMETTE FORMATION (Devonian) – Medium-dark-gray sublithographic limestone and olive-gray medium-grained dolomite; locally fossiliferous; about 2,000 feet thick

Dsi SIMONSON DOLOMITE (Devonian) – Sugary textured pale-yellowish-brown dolomite at base with alternating dark-gray and light-gray laminated dolomite and medium-gray limestone; about 650 feet thick

Ds SEVY DOLOMITE (Devonian) – Even-bedded, very fine grained, light-gray to yellowish-gray dolomite with quartz sand zones in the upper 30 feet; about 1,300 feet thick

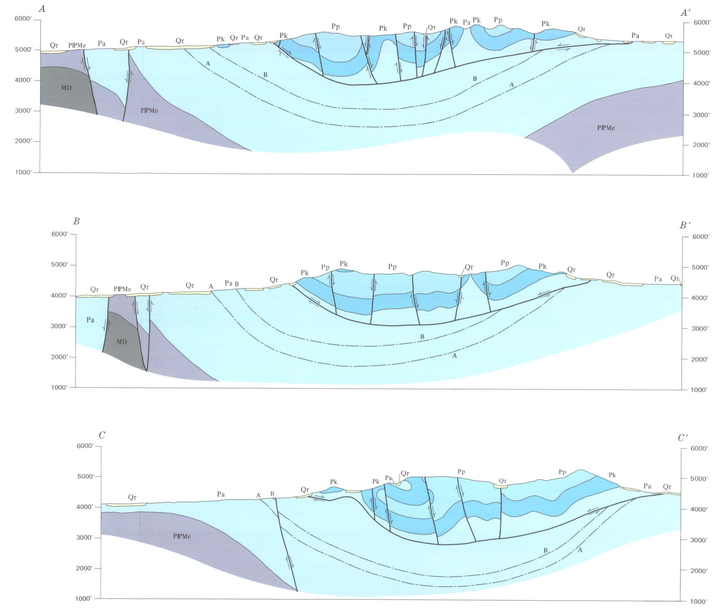
SUBSURFACE UNITS

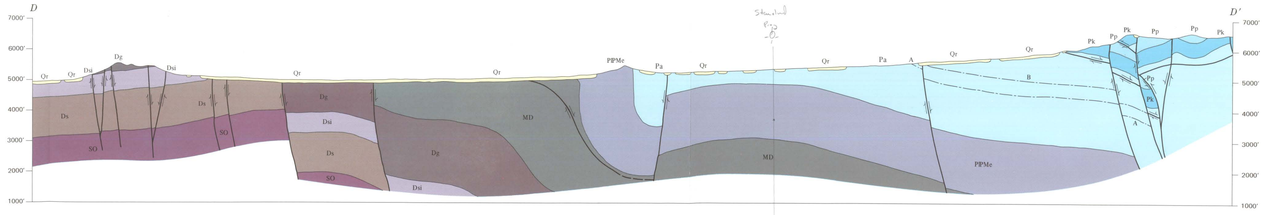
SO LAKETOWN AND FISH HAVEN DOLOMITES, UNDIVIDED (Silurian and Ordovician) – Medium-dark-gray medium-grained dolomite and sugary textured yellowish-gray dolomite; about 1,625 feet thick in areas to the south

- Contact – Dotted where concealed
- Fault – Dashed where poorly exposed or inferred; dotted where concealed; queried where doubtful. Bar and ball on downthrown side
- Low-angle fault – Dashed where poorly exposed or inferred; dotted where concealed. Sawteeth on upper plate
- Anticline – Showing approximate position of axial trace. Dotted where concealed
- Overturned anticline – Showing approximate trace of axial surface
- Crest of minor anticline
- Syncline – Showing approximate position of axial trace. Dotted where concealed
- Overturned syncline – Showing approximate trace of axial surface
- Synform – In upside-down beds; showing approximate position of axial trace; dotted where concealed
- Trough of minor syncline
- Strike and dip of beds
  - Inclined
  - Overturned
  - Vertical
  - Horizontal

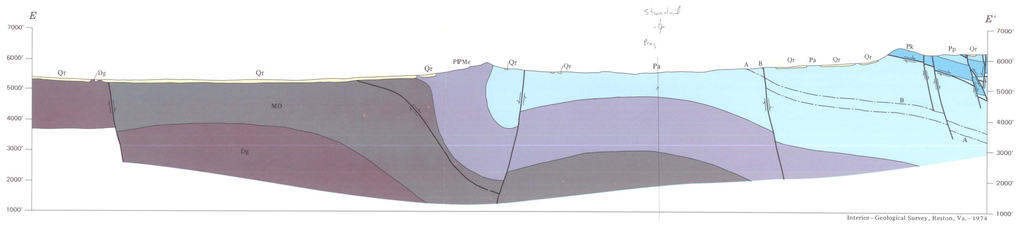
REFERENCES

Hose, R. K., and Repenning, C. A., 1959, Stratigraphy of Pennsylvanian, Permian, and Lower Triassic rocks of Confusion Range, west-central Utah: Am. Assoc. Petroleum Geologists Bull., v. 43, p. 2167-2196.
Steele, Grant, 1960, Pennsylvanian-Permian stratigraphy of east-central Nevada and adjacent Utah: Intermountain Assoc. of Petroleum Geologists, 11th Ann. Field Conf., Guidebook, p. 91-113





INDEX MAP OF UTAH



Interior—Geological Survey, Reston, Va.—1974

GEOLOGIC MAP OF THE TROUT CREEK SE QUADRANGLE, JUAB AND MILLARD COUNTIES, UTAH

By
Richard K. Hose

1974

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JTAH GEOLOGICAL & MINERAL SURVE

For sale by U.S. Geological Survey
Denver, Colo. 80225 and Reston, Va. 22092, price $1.00