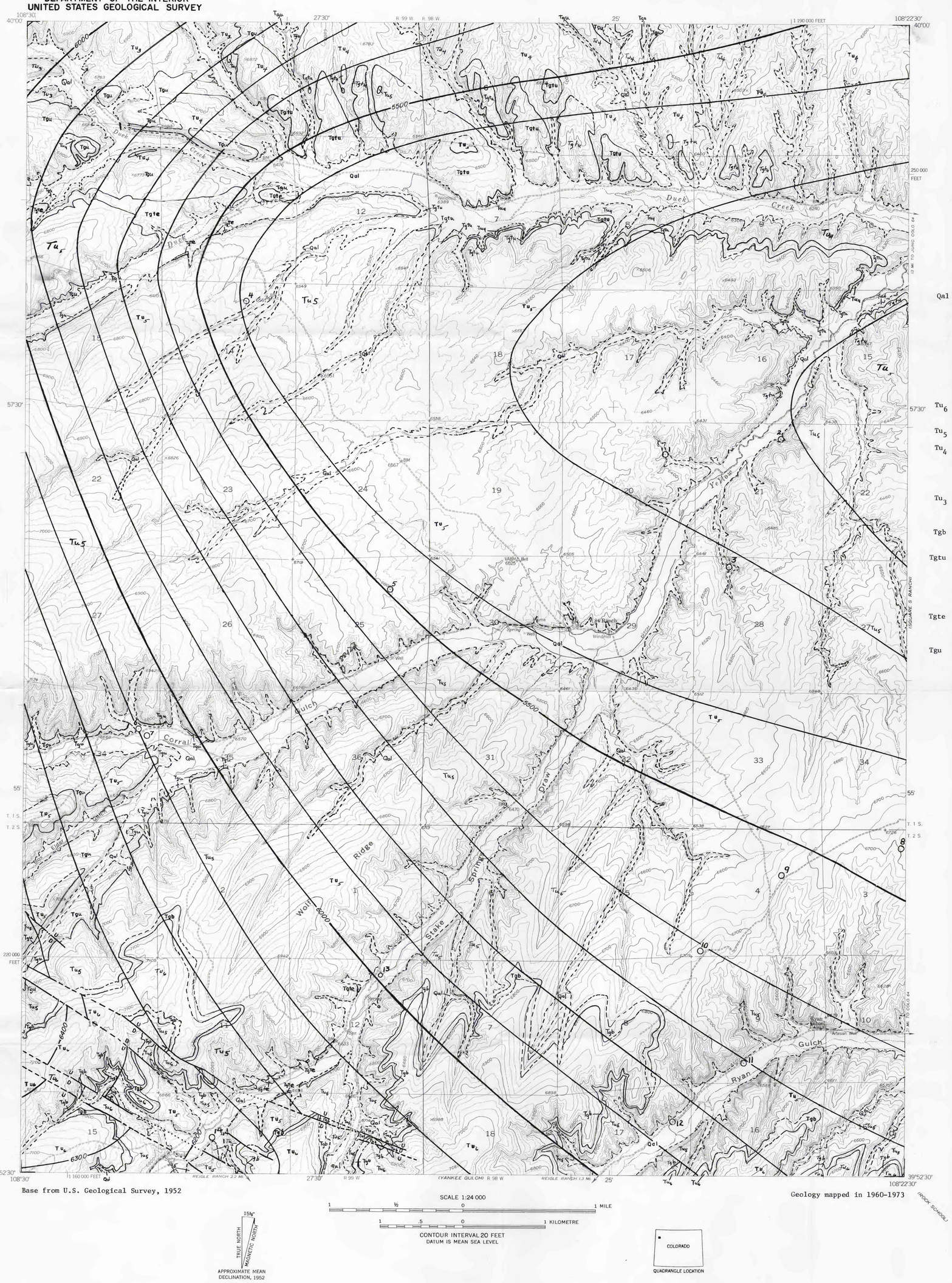
DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

MISCELLANEOUS FIELD STUDIES
MAP MF-753
WOLF RIDGE QUAD., COLORADO



CORRELATION OF MAP UNITS

Qal	Holocene	QUATERNARY
Tu_6	Eocene	TERTIARY
Tgb		
Tu_5		
Tgte, Tgtu		
Tu_4, Tu_4		
Tgu		
Tu_3		

CONTACT--Dashed where approximate

FAULT--Dashed where inferred. Dotted where concealed. U, upthrown side; D, downthrown side

STRUCTURE CONTOURS--Drawn on top of the Mahogany oil-shale zone of the Green River Formation. Contour interval 100 ft (30.5 m)

DRILL HOLE--Number keyed to table. Shallow water wells (shown as small circles) and windmill wells are not included in numbered wells

DESCRIPTION OF MAP UNITS

Qal ALLUVIUM (HOLOCENE)--Silt, sand, and gravel of flood plains and alluvial fans in the larger valleys. Flood-plain deposits are mostly gray, buff, and brown silt and sand. Alluvial fan deposits consist of angular boulders and pebbles of sandstone and marlstone mixed with silt and sand derived from nearby hilly terrain. Thin alluvial deposits in the upland tributaries were only locally mapped; although such deposits are extensive, they are difficult to recognize. Thickness 0-50 ft (0-15 m)

UINTA FORMATION (EOCENE)

Tu_6 Unit 6--Ledge-forming buff- and brown-weathering sandstone and interbedded siltstone. Thickness 250 ft (76 m)

Tu_5 Unit 5--Dominantly buff-weathering silty marlstone. Thickness 150-300 ft (46-91 m)

Tu_4 Unit 4--Buff- and brown-weathering ledge-forming sandstone. Unit grades laterally into the unnamed tongue of the Green River Formation south of Little Duck Creek, however, remnants are mapped locally. Thickness 0-200 ft (0-61 m)

Tu_3 Unit 3--Buff and tan ledge- and cliff-forming sandstone in northwestern corner of quadrangle. Thickness 0-150 ft (0-46 m)

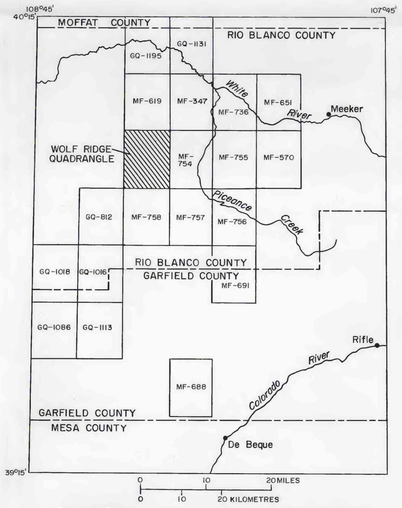
GREEN RIVER FORMATION (EOCENE)

Tgb Black Sulphur Tongue--Light gray- to white-weathering silty marlstone. Thickness 20-40 ft (6-12 m)

Tgtu Thirteenmile Creek Tongue, upper part--Light gray to white-weathering marlstone. The unit locally contains thin ledge-forming porous ostracod-charophyte-bearing limestone. The unit contains a few thin oil-shale beds. Present only in the northern part of the quadrangle. Thickness 40-60 ft (12-18 m)

Tgte Thirteenmile Creek Tongue equivalent--Locally a Thirteenmile Creek equivalent; mapped separately where it overlies an unnamed tongue of the Green River Formation

Tgu Unnamed tongue--Light gray-weathering silty marlstone which may be equivalent to the Yellow Creek Tongue and Dry Fork Tongue north of the quadrangle boundary. Thickness 0-200 ft (0-61 m)



Index of recently published U.S. Geological Survey geologic maps in the Piceance Creek basin area.

LIST OF DRILL HOLES
[N.D., no data]

No. on map	USGS core no.*	Location Sec.	T. S.	R. W.	Operator and name of well	Depth of hole feet	metres
1		20	1	98	Wolf Ridge Minerals Corp. 20-1 Advanced Minerals-------	2,414	735.8
2		21	1	98	Sinclair Oil Co. core holes----------	N.D.	N.D.
3	C-153	28	1	98	Wolf Ridge Minerals Corp. 28-1 Colorado Minerals-------	N.D.	N.D.
4	C-35	14	1	99	U.S. Bur. Mines and Atomic Energy Comm. 2 Duck Creek---	2,409	734.3
5		25	1	99	Oroco-El Paso 1 Yellow Creek----------	7,987	2,434.4
6	C-215	34	1	99	Cameron Engineers CE-702----------	1,800	548.6
7		34	1	99	Occidental Petroleum Co. 1 Cascade-Govt.----------	6,433	1,960.8
8	C-174	3	2	98	Humble Oil Co. 1 Ryan Ridge-Govt.----------	3,232	985.1
9	C-5	4	2	98	J. T. Juhan Core hole 4-1----------	2,625	800.1
10	C-12	4	2	98	Pan-American Petroleum Corp. 1 Peterson----------	2,736	833.9
11		9	2	98	Equity Oil Co. 11 Sulphur Creek----------	2,450	746.8
12		17	2	98	Equity Oil Co. 8 Sulphur Creek----------	5,682	1,731.9
13		12	2	99	Occidental Petroleum Co. 1 Corehole----------	1,579	481.3
14		14	2	99	Equity Oil Co. 1 Corral Gulch-Govt.----------	6,071	1,850.4

*U.S. Geological Survey computer storage and retrieval program for oil-shale data, corehole identification number.

Base from U.S. Geological Survey, 1952

Geology mapped in 1960-1973

SCALE 1:24 000
1 0 1 MILE
1 0 1 KILOMETRE
CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL

APPROXIMATE MEAN DECLINATION, 1952
15½° TRUE NORTH MAGNETIC NORTH

COLORADO
QUADRANGLE LOCATION

PRELIMINARY GEOLOGIC MAP OF WOLF RIDGE QUADRANGLE, RIO BLANCO COUNTY, COLORADO

By

D. C. Duncan

1976

For sale by U.S. Geological Survey, price 50 cents