

DESCRIPTION OF MAP UNITS

Qa Alluvium (Holocene)—Unconsolidated, poorly sorted sand, silt, and clay deposits of valley fill. Mapped only along channels and flood plains of larger drainages. At places includes thin gravel deposits of small extent. Thickness probably less than 30 ft.

Qau Upland alluvium (Holocene)—Unconsolidated deposits of valley fill not connected to alluvium along major drainages. Forms narrow linear deposits in upland areas. Only most conspicuous deposits are shown. Thickness probably less than 20 ft.

Ql Landslide deposits (Holocene)—Unconsolidated surficial deposits of slumped ground and slide masses made up of a chaotic arrangement of broken rock, boulders, and finer fragments along Dry Thirtene mile and Fourteen mile Creeks in northeastern part of quadrangle. Composed mostly of blocks of marlstone derived from the Parachute Creek Member of Green River Formation (Tgp). Thickness probably less than 40 ft.

Tu Uinta Formation (Eocene)—Light-brown to light-gray tuffaceous and argillaceous sandstone and siltstone and silty beds of gray and green mudstone and shale and light-gray marlstone. Sandstone grain size ranges from very fine to coarse. Some sandstone and siltstone beds are resistant and form prominent cliffs; others are friable and weather to slopes. Sandstone beds contain quartz and varying amounts of rock fragments, clay, siltite, and heavy minerals. The lithology of the formation is variable and reflects a change from the lacustrine environment of the partly underlying and partly intertonguing Parachute Creek Member of the Green River Formation (Tgp) to the fluvial and deltaic environment of the Uinta Formation. South of Dry Thirtene mile Creek some southward-thinning sandstone tongues of the lower part of the Uinta Formation are mapped with the Parachute Creek Member. In southern part of quadrangle, the Stewart Gulch Tongue of the Green River Formation is mapped with the Uinta Formation. The Stewart Gulch Tongue is 15-20 ft thick, consists of marlstone and silty siltstone, thin and grades northward into Uinta Formation; lies between the Coughs Creek Tongue (Tgc) and marlstone at Jackrabbit Ridge of Green River Formation (Tgj). Total aggregate thickness of the Uinta Formation in the quadrangle is 600-800 ft, but the exposed top of the formation in the present-day surface of erosion.

Tuh Upper marker bed—Light-gray marlstone, variably silty and sandy. Forms conspicuous marker bed near top of Uinta Formation. Only the base of marker bed is shown. Thickness 10-15 ft.

Tgc Green River Formation (Eocene)—

Tgj Marlstone at Jackrabbit Ridge—Light-gray to light-brown, poorly laminated marlstone that weathers very light gray. Includes some early siltstone and thin, fine-grained sandstone beds and a few interbedded tuff layers. Fossil insect and plant remains are present locally along bedding planes. Marlstone at Jackrabbit Ridge grades into the Uinta Formation in southern part of quadrangle. Informally named for exposures on Jackrabbit Ridge, in the Circle Dot quadrangle (MF-1293 on index map), which is about 9 mi southwest of No Name Ridge quadrangle. Thickness 0-40 ft.

Tgb Coughs Creek Tongue—Light-gray marlstone containing some beds of brown sandstone and siltstone. Marlstone is very hard and breaks into papery, chippy, or blocky pieces. Fresh surfaces are light gray and medium brown and striped with medium- to dark-brown laminations. North of Piceance Creek and west of Dry Thirtene mile Creek, the Coughs Creek is mostly gray siltstone, early siltstone, and sandstone interbedded with silty gray marlstone. Coughs Creek Tongue grades westward and northward into Uinta Formation along west side of quadrangle and along west side of Earl Gulch near central part of quadrangle. Thickness 0-120 ft.

Tgt Black Sulphur Tongue—Light-gray and light-brown marlstone, silty marlstone, and siltstone. Weathers very light gray. Black Sulphur Tongue merges with the Thirtene mile Creek Tongue (Tgc) south of Dry Thirtene mile Creek (Tgp), where it is mapped with the Parachute Creek Member. (See "Restored Stratigraphic Diagram.") Thickness 30-70 ft.

Tgp Thirtene mile Creek Tongue—Light-gray and light-brown, variably silty marlstone, and tan siltstone, calcareous siltstone and some thin sandy tuffaceous beds. Locally contains brown sandstone beds as much as 25 ft thick. Includes thin, dark-brown and bluish-gray, rich oil-shale beds. Thirtene mile Creek Tongue merges with Black Sulphur Tongue (Tgb) south of Dry Thirtene mile Creek, where it is mapped with the Parachute Creek Member (Tgp). Thickness 80-140 ft.

Tg Parachute Creek Member—Massive to platy marlstone and beds of dark-brown, gray, and bluish-gray oil shale, all of which weather light gray. Contains numerous very thin, yellowish-brown tuff beds and a few siltstone and sandstone beds. Thickness about 750 ft along Piceance Creek in southeastern part of quadrangle, but base of member is not exposed in quadrangle.

m Top of Mahogany ledge at surface—A rich oil-shale zone in the Parachute Creek Member, which is termed the "Mahogany zone" in the subsurface. Thickness 30-160 ft.

-6000 Contact—Varies from well exposed to locally obscured or concealed by soil or vegetation.

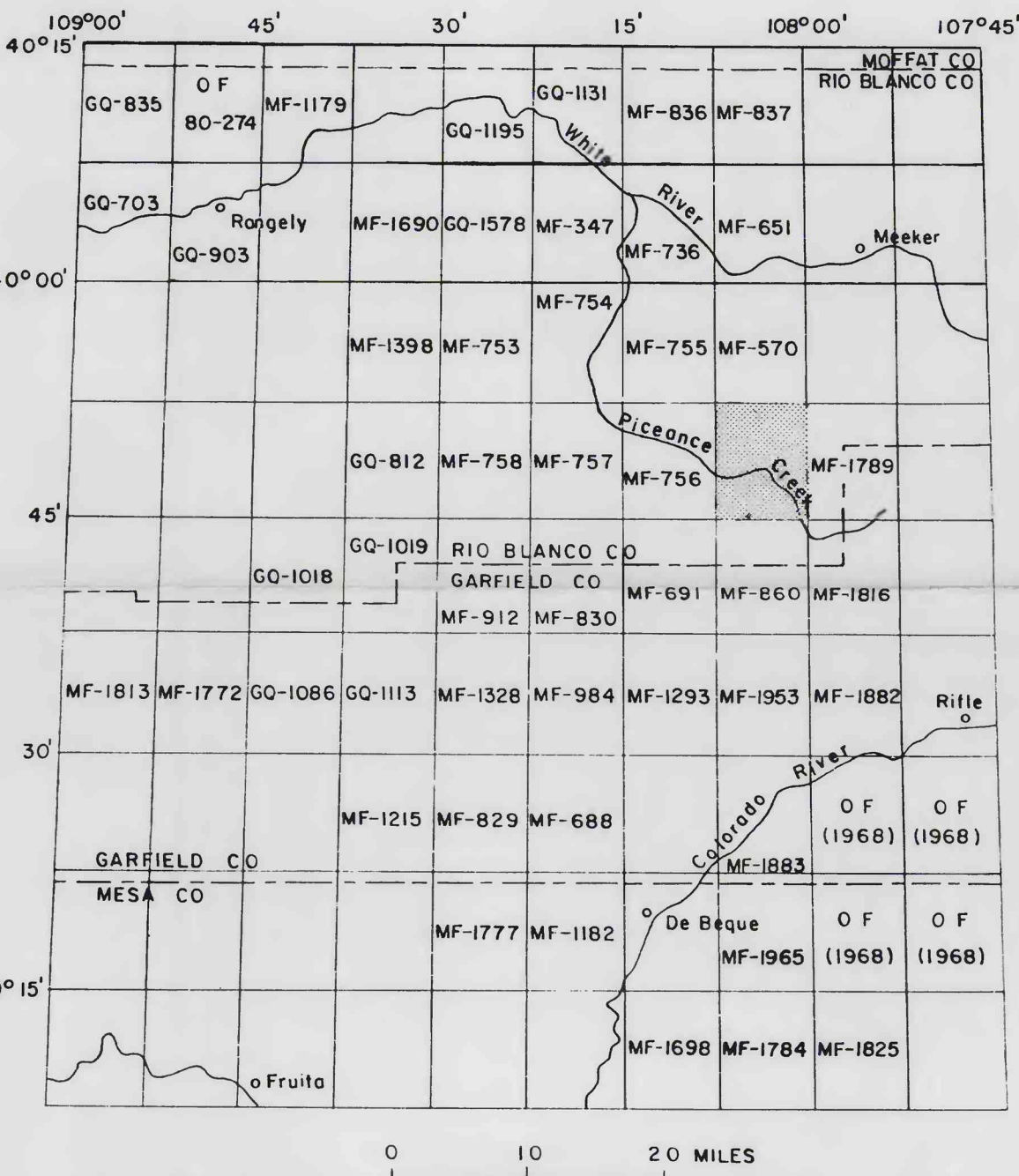
O7 Fault—In places where uncertain or where offset is undetectable; dotted where concealed. U, upthrown side; D, downthrown side.

O7 Structure contours—Shown on top of Mahogany ledge or zone. Modified from Pitman and Johnson (1978). Contour interval 100 ft.

O7 Drill hole—See table for description.

Pitman, J.K., and Johnson, R.C., 1978, Isopach, structure contour, and resource maps of the Mahogany oil-shale zone, Green River Formation, Piceance Creek basin, Colorado: U.S. Geological Survey Miscellaneous Field Studies Map MF-958, scale 1:125,720.

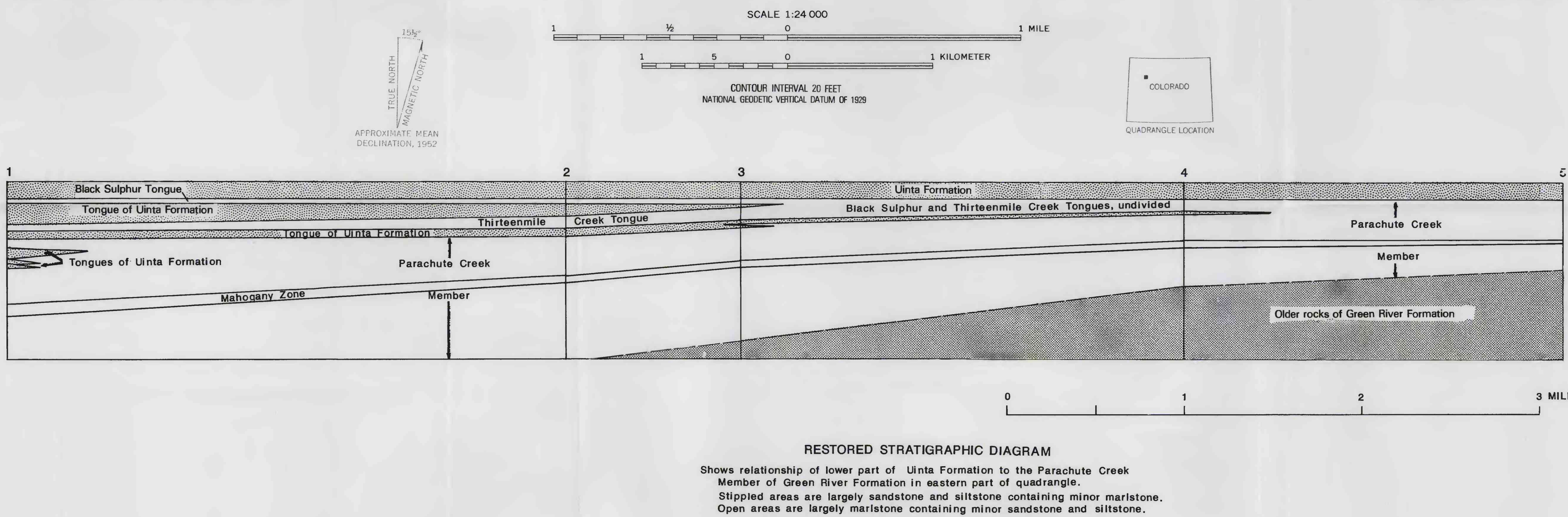
[Leaders (---), section lines not given on map]				DRILL HOLES	
No. on map	Section	Drill hole	Total depth (feet)		
T. 2 S., R. 95 W.					
1	SW1/4 sec. 14	Great Eastern Energy and Development Corporation 14-2-95 Federal	3,700		
2	SE1/4 sec. 14	U.S. Geological Survey core hole 78-3	303		
3	SW1/4 sec. 16	Indian Wells Oil Company 16-2-95 Federal	4,075		
4	SE1/4 sec. 18	Mobil Oil Company 78-18C	4,400		
5	NE1/4 sec. 19	Mobil Oil Company 773-19C	7,155		
6	SW1/4 sec. 19	General Petroleum Corporation 28-19 Government	3,490		
7	NW1/4 sec. 21	Pool Oil and Gas Company 2-21-2-95 Federal	3,227		
8	SW1/4 sec. 21	Indian Wells Oil Company 21-2-95 Federal	7,350		
9	SE1/4 sec. 22	Webb Resources, Incorporated, 22-15 Federal	3,141		
10	SW1/4 sec. 26	U.S. Geological Survey core hole 78-3A	300		
11	SW1/4 sec. 29	General Petroleum Corporation 45-X-29 Government	3,685		
12	NE1/4 sec. 30	Mobil Oil Company 773-30C USA	6,915		
13	SW1/4 sec. 30	Mobil Oil Company T-30-C O USA	6,790		
14	NE1/4 sec. 31	General Petroleum Corporation 53-31 Government	3,500		
15	SW1/4 sec. 32	General Petroleum Corporation 45-32 Government	1,934		
16	SW1/4 sec. 33	General Petroleum Corporation 45-33 Government	3,635		
T. 2 S., R. 96 W.					
17	NW1/4 sec. 24	General Petroleum Corporation 11-24 Government	3,407		
18	NW1/4 sec. 25	Mobil Oil Company F11-25G	3,730		
19	NW1/4 sec. 36	General Petroleum Corporation 33-36 Government	3,125		
Location uncertain (In southern part of quadrangle, locations are uncertain because land lines are omitted)					
20	--	General Petroleum Corporation 55X-12	2,605		
21	--	Equity Oil Company 3 Clubline	2,404		
22	--	Equity Oil Company 2 Clubline Eric	2,396		
23	--	Equity Oil Company 1 Clubline Eric	2,693		
24	--	General Petroleum Corporation 175-8 Unit	2,651		
25	--	U.S. Geological Survey core hole 78-2	307		
26	--	Equity Oil Company 1 Government-Gardner	2,389		
27	--	Equity Oil Company 2 Gardner	3,024		
28	--	Equity Oil Company 20-3 Federal	2,620		
29	--	J. W. Huber Corporation 20-1 Gardner-Government	2,733		
30	--	Equity Oil Company 6 Piceance Creek S	3,333		
31	--	Equity Oil Company 1 Evans Government	2,720		
32	--	Equity Oil Company 1 Miller Government	3,730		
33	--	Equity Oil Company 10 Federal	7,107		
34	--	Equity Oil Company 5 Piceance Creek S	2,760		



INDEX MAP SHOWING LOCATION OF THIS QUADRANGLE (PATTERNED) AND OTHER PUBLISHED U.S. GEOLOGICAL SURVEY 1/2-MINUTE GEOLOGIC MAPS IN THE PICEANCE CREEK BASIN AREA, NORTHWESTERN COLORADO. PUBLISHED MAPS INCLUDE GEOLOGIC QUADRANGLE MAPS (Q), MISCELLANEOUS FIELD STUDIES MAPS (MF), AND OPEN-FILE REPORTS (OF).

Base from U.S. Geological Survey, 1952

Geology mapped in 1976-82



PRELIMINARY GEOLOGIC MAP OF THE NO NAME RIDGE QUADRANGLE, RIO BLANCO COUNTY, COLORADO

By
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