

DESCRIPTION OF MAP UNITS

Qa1 ALLUVIUM (HOLOCENE)—Silt, sand, and gravel of flood plains and alluvial fans in the larger valleys. Flood-plain deposits consist mostly of gray, buff, and brown silt and sand. Alluvial fan deposits consist of unsorted boulders and angular pebbles, mixed with silt and sand. Thin alluvial deposits in some upland gulches and swales are not shown. Thickness 0-50 ft (0-15 m)

Tu6 UINTA FORMATION (EOCENE)—Sandstone, siltstone, and minor marlstone. Unit weathers to buff, brown, and gray slopes and ledges; it forms the bedrock of most of the soil-covered broad ridges of the map area. Some sandstone beds are crossbedded and lenticular, and are interpreted to be current channel deposits. Most siltstone and silty marlstone beds are thinly parallel bedded. They are interpreted to have been deposited in a quiet water, lacustrine environment. In the southern part of the quadrangle the middle and lower parts contain a few lenticular marlstone and oil-shale beds

Tu5 Unit 5—Sandstone, siltstone and marlstone. Thickness 150-290 ft (46-88 m)

GREEN RIVER FORMATION (EOCENE)

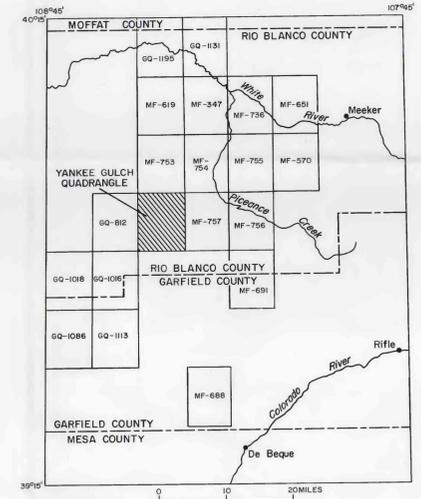
Black Sulphur Tongue—Light-gray weathering marlstone with a local thin sandstone bed near the middle. Thickness 20-70 ft (6-21 m). In the southwest part of the quadrangle along Black Sulphur Creek, unmapped thin marlstone beds about 100 ft above the Parachute Creek Member are possible equivalents of the Black Sulphur Tongue.

Tgb The top of the Black Sulphur Tongue is mapped as a line labeled Tgb in the northern part of the quadrangle. The Black Sulphur Tongue itself is mapped with the underlying Uinta Formation Tu5

Tgp Parachute Creek Member—Dolomitic gray and brown marlstone, brown to black oil shale and numerous thin altered tuff zones. Only the upper 250 ft (77 m) is exposed in the southwest part of the quadrangle

m Mahogany oil-shale zone—Brown and black rich oil shale, with lean oil shale near top and base. Unit contains a few thin altered tuff beds. About 40 ft (12 m) thick in southern part of quadrangle. Only the top of the zone is shown on the map

- CONTACT—Dashed where approximate
- U- FAULT—Dashed where inferred; dotted where concealed. U, upthrown side; D, downthrown side
- 5000- STRUCTURE CONTOURS—Drawn on top of the Mahogany oil-shale zone of the Green River Formation. Contour interval 100 ft (30.5 m)
- ² DRILL HOLE—Number keyed to table
- 20° STRIKE AND DIP OF BEDS



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

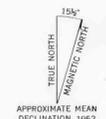
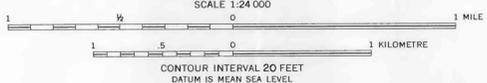
LIST OF DRILL HOLES

No. on map	USGS core no.*	Location		Operator and name of well	Depth of holes	
		Sec.	T. S. R. W.		feet	metres
1		19	2 98	Equity Oil Co. 7 Sulphur Creek	9,305	2,836.2
2		21	2 98	Great Yellowstone Corp. 1 Sulphur Creek	4,545	1,385.3
3		27	2 98	Equity Oil Co. 4 Boies	7,956	2,425.0
4		29	2 98	Equity Oil Co. 6 Sulphur Creek	7,136	2,175.1
5		30	2 98	Equity Oil Co. 13 Sulphur Creek	1,691	515.4
6		31	2 98	J. M. Huber Corp. 31-1 Govt.-Equity	4,506	1,373.4
7		32	2 98	Hyland Oil Co. 1-32 Govt.	4,325	1,318.3
8		33	2 98	Hyland Oil Co. 1-33 Govt.	4,303	1,311.6
9		24	2 99	TOSCO 722	2,123	647.1
10		27	2 99	American Minerals Mgt., Inc. 2 Ryan Creek	6,456	1,967.8
11		27	2 99	Equity Oil Co. 1 Ryan Gulch Govt.	6,586	2,007.4
12		4	3 98	Hyland Oil Co. 1-4 Govt.	4,400	1,341.1
13	C-117	6	3 98	Equity Oil Co. BX-1	1,708	520.6
14		7	3 98	Equity Oil Co. 2 So. Sulphur Creek Govt.	5,721	1,743.8
15		18	3 98	Equity Oil Co. 4 Fawn Creek	4,204	1,281.4
16		22	3 98	Equity Oil Co. 1 Boies	7,500	2,286.0
17		27	3 98	Texaco, Inc. 3 Fawn Creek Govt.	7,488	2,282.3
18	C-26	30	3 98	J. T. Juhon 2 Marcedus	632	192.6
19		12	3 99	Equity Oil Co. 5 Govt.	6,664	2,031.2
20		22	3 99	Equity Oil Co. 3 So. Sulphur Creek	5,160	1,572.8
21	C-170	26	3 99	Equity Oil Co. 1-A So. Sulphur Creek-Govt.	1,008	307.2
22		26	3 99	Equity Oil Co. 1 So. Sulphur Creek-Govt.	6,940	2,115.3
23	C-32	26	3 99	Weber Oil Co. 2 Black Sulphur Falls	345	105.2

*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 1960-73



PRELIMINARY GEOLOGIC MAP OF YANKEE GULCH QUADRANGLE, RIO BLANCO COUNTY, COLORADO
By
D. C. Duncan
1976