

DESCRIPTION OF MAP UNITS

Qal ALLUVIUM AND COLLUVIUM (HOLOCENE)--Includes unconsolidated gravel, sand, silt, and clay in alluvial, colluvial, and fan deposits.

Tgp GREEN RIVER FORMATION (Eocene)
Parachute Creek Member--Consists mostly of siltstone and claystone, as well as barren marlstone, sandstone, altered tuff beds, slightly bituminous sandstone, and a few beds of oil shale. Unit generally weathers light gray to tan in rounded slopes and hills; lower part forms cliffs and ledges in western and southern parts of quadrangle. Unit becomes less sandy and contains more marlstone and siltstone to northeast. Mahogany ledge (Mahogany zone in subsurface), which contains richest oil-shale beds in Parachute Creek Member, is basal unit of member. Consists of dark-gray to black oil shale interbedded with thin tuff beds and medium- to dark-gray silty marlstone. Mahogany ledge is about 19 ft (6 m) thick in northern and western parts of quadrangle; that part which has an average shale-oil yield of 25 gallons per ton (104 liters per metric ton) is about 11 ft (3 m) thick and thins to southeast to 3 ft (1 m). Bituminous sandstone beds occur above and below Mahogany ledge. Only lowest 350 ft (107 m) of Parachute Creek Member exposed in northwestern corner of quadrangle Horse Bench Sandstone Bed--Base of a fine-grained tuffaceous sandstone and siltstone unit within Parachute Creek Member. Weathers brownish tan to yellowish orange. Forms prominent bench in northwestern part of quadrangle. Uneven base and smooth top. Top of Horse Bench Sandstone Bed is approximately 360 ft (110 m) above base of Parachute Creek Member. Ranges in thickness from 3 to 23 ft (1 to 7 m). Top of Mahogany bed--Richest oil-shale bed within Mahogany ledge. Consists of dark-gray to black oil shale interbedded with thin tuff beds. Weathers light gray to brown. Basal contact of Parachute Creek Member lies 13 to 15 ft (4 to 4.5 m) below top of Mahogany bed and is not shown on map. Thickness of Mahogany bed ranges from about 5 ft (1.5 m) in northwestern part of quadrangle to 3 ft (1 m) in southeastern corner.

Tgd Douglas Creek Member--Consists of fine-grained to very fine grained grayish-brown sandstone, dark-brown bituminous sandstone, gray siltstone, green and maroon mudstone, stromatolitic and ostracodal limestone, and a few thin dark-gray oil-shale beds. Most sandstone and limestone beds are ledge formers, whereas siltstone and mudstone beds form slopes and reentrants. Unit includes in its lower part alluvial sandstone and siltstone beds previously mapped as part of the Renegade Tongue of the Wasatch Formation by Cashion (1967). Upper 500 ft (244 m) of member exposed in quadrangle. Thickness of Douglas Creek Member from geophysical logs is approximately 1,900 ft (580 m).

Tw WASATCH FORMATION (Eocene)
Wasatch Formation--Shown on cross section only. Irregularly bedded sandstone, siltstone, and shale. Intertongues with Green River Formation.

- CONTACT---Dashed where approximately located
- 7000- STRUCTURE CONTOURS--Drawn on top of Mahogany bed. Dashed where Mahogany bed eroded. Contour interval 100 ft (30 m). Datum is mean sea level
- OIL-SHALE CORE HOLE--Results of drilling shown in Cashion (1981). Number keyed to list of drill holes
- ⊙ DRY HOLE--Number keyed to list of drill holes
- ⊛ GAS WELL--Includes shut-in, producing, and abandoned wells at time of mapping (1983-1984). Number keyed to list of drill holes

REFERENCES CITED

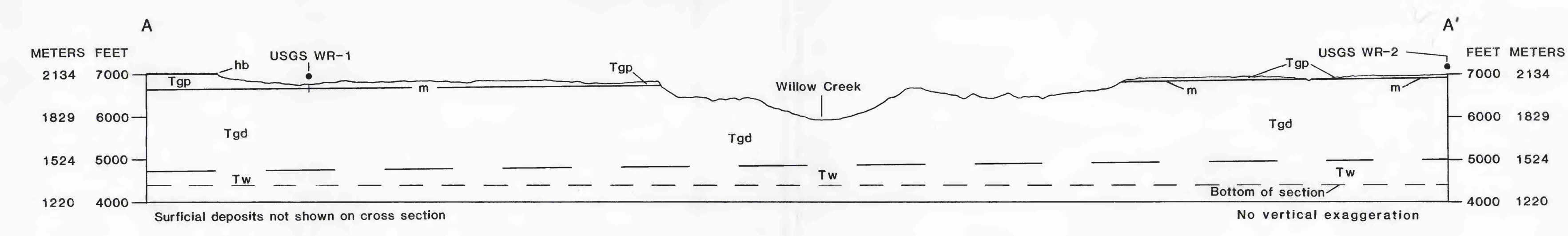
Cashion, W.B., 1967, Geology and fuel resources of the Green River Formation, southeastern Uinta Basin, Utah and Colorado: U.S. Geological Survey Professional Paper 548, 48 p.

1981, Results of core drilling in the Mahogany zone and some adjacent beds of the Green River Formation, Winter Ridge area, southeastern Uinta Basin, Utah: U.S. Geological Survey Open-File Report 81-175, 27 p.

DRILL HOLES IN THE WOLF POINT QUADRANGLE, UINTAH COUNTY, UTAH
[USGS, U.S. Geological Survey. Leaders (--), data not available. 1 ft=0.304 m]

Drill hole number (on map)	Drilling company	Drill hole name ¹	Total depth (feet)
1	USGS-----	USGS WR-1 (No. U94)-----	100
2	Continental Oil Co.	Bull Canyon No. 2-----	4,205
3	Coseka Resources---	Pine Spgs. No. 6-7-14-22---	--
4	Coseka Resources---	Pine Spgs. No. 12-18-14-22---	--
5	USGS-----	USGS WR-2 (No. U95)-----	100
6	Exxon USA-----	Wolf Point No. 1-----	10,300
7	USGS-----	USGS WR-7 (No. U100)-----	98
8	Coseka Resources---	Federal No. 3-11-15-21-----	--
9	Coseka Resources---	Federal No. 7-15-15-21-----	--
10	Coseka Resources---	Federal No. 6-14-15-21-----	--
11	Coseka Resources---	Federal No. 5-13-15-21-----	--
12	USGS-----	USGS WR-3 (No. U96)-----	160

¹Numbers in parentheses are keyed to USGS data-bank file.



PRELIMINARY GEOLOGIC MAP OF THE WOLF POINT QUADRANGLE, UINTAH COUNTY, UTAH

By
Richard W. Scott, Jr., and Michael P. Pantea
1986