

DISCUSSION

This map shows the location and recovery data for those wells that yielded fluids from the Mesaverde Group in the Piceance Creek Basin. Locally where the Mesaverde cannot be divided into units of formation rank, the Mesaverde itself becomes a formation. The map was compiled to aid in estimating natural gas resources of the marine and nonmarine parts of the Mesaverde Group. Recovery data are from the Petroleum Information records. Every well for which recovery data are available (either drillstem-test or perforation) is shown on this map.

Depths below the top of the Mesaverde Group were calculated using information published by Granica and Johnson (1980) and logs were used to separate the marine and nonmarine parts of the Mesaverde Group. The nonmarine part of the Mesaverde as defined here extends downward from the unconformity at the top of the Mesaverde to the top of the Rollins Sandstone Member of the Mount Garfield Formation in the southern part of the basin or the Trout Creek Sandstone Member of the Iles Formation in the northern part of the basin. The Mount Garfield and the Iles are formations in the Mesaverde Group. The Rollins Sandstone and the Trout Creek Sandstone are thought to be correlative. All Mesaverde rocks below the top of the Rollins Trout Creek are included in the marine part of the Mesaverde, although some nonmarine rocks occur in this interval.

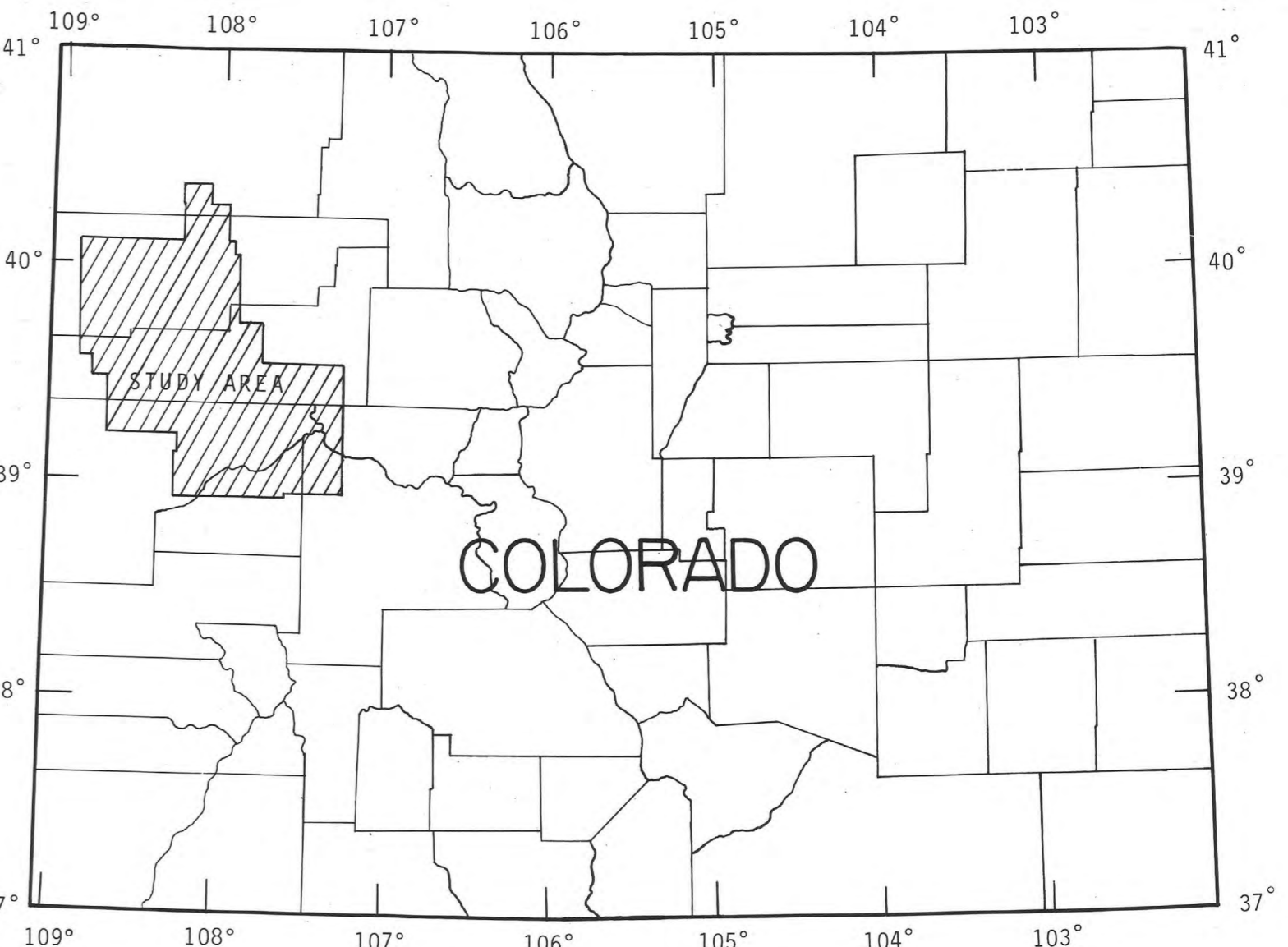
REFERENCE

Granica, M. P., and Johnson, R. C.: 1980, Structure contour map and isochore map of the nonmarine part of the Mesaverde Group, Piceance Creek Basin, Colorado; U.S. Geological Survey Miscellaneous Field Investigations Map MF-1189, Scale 1:250,000.

EXPLANATION

- 2510' - 500 MCFD
- DRILL HOLE--Showing feet below top of Mesaverde Group and top of drillstem test or perforation interval and recovery data. Underscore indicates recovery from marine part of Mesaverde Group, no underscore indicates recovery from nonmarine part of Mesaverde Group. Asterisk indicates initial potential from perforations, no asterisk indicates drillstem test recovery
- Two wells in approximately same area
- ABBREVIATIONS USED FOR RECOVERY DATA--Liquid recovery shown in number of feet of liquid recovered in drill pipe
 - GTS Gas to surface (volume too small to measure)
 - M Mud
 - WCM Watercut mud
 - SWCM Slightly watercut mud
 - GCM Gascut mud
 - SGCM Slightly gascut mud
 - VSGCM Very slightly gascut mud
 - HGCM Highly gascut mud
 - VHGCM Very highly gascut mud
 - W Water
 - GCW Gascut water
 - SGCW Slightly gascut water
 - BW Barrels of water
 - MCFD Thousand cubic feet of gas per day
- KEY TO TYPE OF RECOVERY--Combined symbols indicate significant recovery of more than one type of fluid. Symbols inclined where data concentrated. Gas symbol used only for significant recovery, not for shows of gas as in Gascut mud.
 - Oil
 - Gas
 - Water
 - Mud
 - Oil and gas
 - Oil and water
 - Oil and mud
 - Gas and water
 - Gas and mud
 - Gas and oil and water
 - Gas and oil and water and mud
 - Only a show of oil
- FAULT--Bar and ball on downthrown side
- DISPLACEMENT FAULT
- CRETACEOUS-TERTIARY UNCONFORMITY--Mesaverde absent on hatched side
- STRUCTURE CONTOURS--Drawn on top of nonmarine part of Mesaverde Group (from Granica and Johnson, 1980). Contour interval 500 feet. Datum is mean sea level
- Conversion factor: Meters x 0.3048 = feet

SCALE 1:250,000
0 5 10 15 20 25 MILES
0 5 10 15 20 25 KILOMETERS



MAP SHOWING DRILL STEM TEST AND PERFORATION RECOVERIES OF THE UPPER CRETACEOUS MESAVERDE GROUP, PICEANCE CREEK BASIN, COLORADO

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