



Syncline—Approximately located, at least 1,500 north. Structural relief
 above Mount Taylor is at least 1,500 ft (455 m) to 10 ft (16 m)
 on the side of Hs.
 1000 Overburden isopach—Shows approximate thickness of overburden, in
 feet, from surface to top of Dico Coal Member of the Crevasco
 Formation. Only at base of section is thickness of overburden
 calculated. Control based on synclinal structure and topographic
 topography. Isopachs contour down at 1,000, 2,000, and 3,000 ft
 (305, 610, and 915 m).
 Limits of coal resources—Approximate limit of appreciable amounts
 of coal in the Dico Coal Member of the Crevasco Formation.
 Arrow shows on side control coal resources
 Mount Taylor volcanic center—Indicates erosional edge of volcanic
 center. This center was probably 1,000 ft (305 m) high, but erosion
 has enlarged it to nearly 5 mi² (13 km²) (Hunt, 1938).
 Measured section—Showing location and thickness in feet. Index
 numbers (arabic) are in parentheses. Dico, D, Ward, and
 Kms (K) are in Roman numerals. Section is measured and
 profile is section measured by Hunt (1938). Appels used in section;
 R, rock; c, coal; RR, no record. Horizontal lines indicate top or bot-
 tom of coal beds. Vertical lines indicate top of coal Member. Let-
 ters above or below these lines refer to units above or below the Dico
 Coal Member: Kmsm, Musgrave Tongue of the Mancosha Shale; Kgs,
 Sandstone of the Crevasco Formation; Kgs, Kgs,
 Sandstone

The Dilco Member of the Crevasse Canyon Formation of Late Cretaceous age has sandstone, siltstone, mudstone, carbonaceous shale, and a few thin beds of lignite. The member is 100 to 150 m thick and is exposed on the east and west slopes on the east, south, and west flanks of Mount Taylor and in a large low-lying area in the southeast corner of the quadrangle.

The coal beds in the Dilco Member are thin and discontinuous. All sections examined have a maximum thickness of 0.6 m thick. Individuals beds rarely extend laterally for more than a few hundred feet. Because these beds have no appreciable amount of coal reported in the eastern half of the map area, resources have been estimated only in the western half of the map area. The estimated resources are within the limit of coal resources in the Dilco Member of the Crevasse Canyon Formation of the Overboard section are drawn assuming a broad syncline plunging northward beneath Mount Taylor (see McCarty syncline in the Grants '30' 60' quadrangle is generally considered subbituminous in rank (U.S. Geological Survey and New Mexico Bureau of Mines and Mineral Resources, 1981). The coal ranges between bituminous and subbituminous rank. The coal is estimated to be in the rank of bituminous rank (D. E. Ward, and W. L. Yesberger (unpublished administrative report, 1980) show an apparent rank of high-volatile C bituminous, according to definitions of the American Society for Testing and Materials (ASTM).

The coal resources are calculated in tables 1 and 2, all coal of the Dilco Member is assumed to be bituminous. Coal resources are calculated using the definitions and methods of the U.S. Geological Survey (Wood and others, 1983). The coal resources are estimated to be 200 million short tons (table 1), occurring mostly in beds

REFERENCES CITED

American Society for Testing and Materials, 1981. Annual book of ASTM standards, part 26, gaseous fuels, coal and coke; atmospheric analysis; Philadelphia, PA.

Hunt, C. B., 1936. The Mount Taylor coal field. p. 2 of Geology and fuel resource of the southern part of the San Juan Basin, New Mexico. U.S. Geological Survey Bulletin 662-B, p. 74.

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U.S. Geological Survey and New Mexico Bureau of Mines and Mineral Resources. 1981. Energy resource map of New Mexico. U.S. Geological Survey Miscellaneous Investigations Series Map 1-1000, scale 1:500,000.

Wood, G. H., Jr., Kehn, T. M., Carter, M. D., and Culbertson, W. C., 1983. Coal resource classification system of the U.S. Geological Survey. U.S. Geological Survey Circular 891, p. 28-34.

[illegible]

Category	T-8	Thickness of reserves, in feet				Over 2000
		0-1000	1,000-2,000	2,000-5,000	5,000+	
McKenzie	15- N-10- W- 11	1	—	—	—	1.1
Do-	15- N-10- W- 11	—	—	—	—	1.8
Do-	14- N-10- W- 11	2.8	—	—	—	2.8
Do-	14- N-10- W- 11	—	—	—	—	1.7
Do-	14- N-10- W- 11	6.8	0.12	—	—	7.0
Do-	14- N-10- W- 11	—	—	—	—	4.3
Valencia	12- N-10- W- 12	—	—	—	—	12
Do-	12- N-10- W- 12	8.2	1.9	—	—	10.1
Do-	12- N-10- W- 12	—	—	8.6	0.8	9.3
Do-	12- N-10- W- 12	—	—	0.44	21	21.4
Do-	11- N-10- W- 12	2.9	—	—	—	3.4
Do-	11- N-10- W- 12	7.7	1.2	—	—	8.9
Do-	11- N-10- W- 12	—	—	12	19	29
Do-	11- N-10- W- 12	3.8	9.8	12	1.3	27
Do-	10- N-10- W- 12	—	—	—	—	1.4
Do-	10- N-10- W- 12	64	—	—	—	64
Total		47	41	22	3.0	115