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ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: PINEDALE COAL

ALTERNATE NAMES:

NAVAJO COUNTY MILS NUMBER: 47

LOCATION: TOWNSHIP 11 N RANGE 18 E SECTION 19 QUARTER E2
LATITUDE: N 34DEG 48MIN 55SEC LONGITUDE: W 110DEG 14MIN 35SEC
TOPO MAP NAME: HOLBROOK - 15 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:

COAL SUBBITUMIN

BIBLIOGRAPHY:

ADMMR PINEDALE COAL FILE
ADMMR U FILE
AVERITT, P&O SULLIVAN, R., AZBM BULL. 180,
P. 65
VEATCH, A., USGS BULL. 431-B, P. 155
USGS PP 1625B, NAT. ASSESSMENT OF COAL COL.
PLATEAU . . . , 2000 (CD-ROM)

PINEDALE COAL DEPOSITS

NAVAJO COUNTY

USGS Bull. 431-B p. 155
USGS Bull. 431 p. 239

ABM Bull. 180, p. 59, 65, 68, 69

MAPS upstairs in the flat storage area, Fourth Drawer

PINEDALE COAL DEPOSITS

NAVAJO COUNTY

NJN WR 3/9/84: John Hargett and Paul Miller visited. They reported they are representing an investor and were seeking data on the coal reserves of the Pinedale field, Navajo County. They were going to obtain permits for an area in T11N R18E SW $\frac{1}{4}$ and drill to identify reserves/resources.

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine **PINEDALE COAL DEPOSITS**

Date **JULY 23, 1957**

District **NAVAJO COUNTY**

Engineer **Lewis A. Smith**

Subject:

The Pinedale Coal Deposits are located in Section 32, T11N, R19E, and in Section 19, T11N, R18E.

Two beds are reported - one has an overall thickness of 12 feet, 6 feet of which is composed of "Bone Coal", which has no value, and 6 feet of coal and waste rock and a total thickness of coal beds averaging less than 3 feet. The overall ash content is about 57%. The lowest member has 2-3' of good coal which averages about 10% of ash content.

The deposit is located in the upper Cretaceous Formation and the coal seams are nearly horizontal.

In view of the thinness of the lower bed and to the erratic tendency in the upper bed, it is probable that coal in necessary quantity, for metallurgical purposes, probably would have to be imported from other sources.

This deposit lies some 75 miles by road, and 25 miles airline, north-east of the Apache Iron Ore deposits.

(Veach - USGS Bull. 431, pp 239-242, 1911)

Pinedale Coal Field *SUMMARY**Location*

The small Pinedale coal field is located in the southern part of Navajo and Apache Counties, Arizona. (Only the Navajo County part of the coal field is shown on figure 1).

Stratigraphy

The first and probably only detailed study of the coal was by Veatch (1911). He placed the coal within the Cretaceous System. The ages of these rocks were further documented by Kirkland (1982), who also provides thickness data.

Table. Stratigraphy—Pinedale coal field.

Stratigraphic units	Depositional environment	Thickness (ft)
Tertiary rocks		
Undifferentiated Cretaceous rocks	alluvial to marine	200+
Triassic rocks		

Coal Deposits

The field contains two coal beds separated by about 15 ft of non-coaly rock. The lower bed is generally only 2–3 ft thick, and the upper bed is as much as 12 ft thick but contains at least 50 percent non-coal material (Veatch, 1911).

Coal Quality

The rank of the coal is assumed to be subbituminous by Averitt and O'Sullivan (1969). The chemistry data is from three analyses by Cooper and others (1947); samples are from the Merwin coal prospect.

Table. Coal in undifferentiated Cretaceous rocks.

[Values reported on an as-received basis]

Ash content (percent)	Sulfur content (percent)	Heating value (Btu/lb)
16.6-41.1	2.2-3.3	7,100-10,430

Resources

Averitt and O'Sullivan (1969) made a provisional estimate of 25 million short tons of coal in the field based on the data of Veatch (1911).

Production History

The Merwin prospect was opened to obtain coal-thickness and quality information in the early 1900's (Veatch, 1911), and there is no known production from the field.

References

- Averitt, Paul, and O'Sullivan, R.B., 1969, Coal, *in* Mineral and Water Resources of Arizona: Arizona Bureau of Mines Bulletin 180, p. 59–69.
- Cooper, H.M., Snyder, N.H., Abernethy, R.F., Tarpley, E.C., and Swingle, R.J., 1947, Analyses of mine, tippie, and delivered samples: U.S. Bureau of Mines Technical Paper, p. 27–47.
- Kirkland, J.I., 1982, Reassessment of the age of the Late Cretaceous section at Mesa Redonda, Apache County, Arizona: *Journal of Paleontology*, v. 56, no. 2, p. 547–550.
- Veatch, A.C., 1911, Coal deposits near Pinedale, Navajo County, Arizona, *in* Campbell, M.R., ed., Contributions to Economic Geology 1909: U.S. Geological Survey Bulletin 431, p. 239–242.