

EXTENT AND THICKNESS OF COAL BEDS

AMOUNT OF OVERBURDEN ON COAL BEDS

HENRY MOUNTAINS COAL FIELD

EXPLANATION
TOTAL THICKNESS OF COAL OCCURRING IN BEDS 1 FOOT OR MORE THICK

More than 8 feet
4-8 feet
Less than 4 feet

AREA PROBABLY UNDERLAIN BY COAL BEDS - Thickness unknown

NOTE - Letter symbols indicate coal-bearing formations

Kb Blackhawk Formation
Kme Emery Sandstone Member of Mancos Shale
Kmf Ferron Sandstone Member of Mancos Shale
Kd Dakota Sandstone

COAL OUTCROP - Line may represent more than one coal bed on steep slopes

BOUNDARY OF COAL FIELD

COAL HORIZON - In places coal is covered or absent

BOUNDARY BETWEEN COAL THICKNESS UNITS

PROSPECT - Number refers to name in table
MINE - Number refers to name in table

MAP NO.	MINE OR PROSPECT	COAL BED OR ZONE		LOCATION		PERIOD OF ACTIVITY
		SEC.	T. S.	R. E.	R. E.	
WASATCH PLATEAU COAL FIELD						
1	Link Canyon	26	21	5	1940-52.	
2	Quantich-top-pah Creek (Quantichp)	29	21	5	Intermittent, 1901-20.	
3	Southern Utah Fuel (New Salina, Convulsion Canyon, Hamon)	12	22	4	1941-72.	
4	Knigh (Fire Creek)	34	23	4	1923-47.	
5	Clear Creek	7	7	7	Unknown.	
SALINA CANYON COAL FIELD						
6	Boston Acme No. 1	18	22	3	1923.	
7	Boston Acme No. 2	21	22	3	1923-47.	
8	Kramer & Duggins (Coal Hollow)	18	22	3	Intermittent, 1910-25. Prior to 1923.	
9	Sevier Valley Coal Co.	20	22	3	1924-33, 1944-53.	
10	Sevier Valley	20	22	3	1924-33, 1944-53.	
11	Wilson	10	22	2	1913-35.	
EMERY COAL FIELD						
12	Casper	25	22	6	Unknown.	
13	Cox	7	22	7	Do.	
14	Moore	13	22	6	Unknown.	
15	Williams	12	22	6	Unknown.	
16	Lower zone	19	22	7	Do.	
17	Bear Gulch	2	23	6	1897-1916(?)	
18	Emery (Cowboy)	2	23	6	1906-1920?	
19	Browning (San Raphael)	33	22	6	Intermittent, 1881-1936; fully active, 1937-72.	
20	Day Valley (Sun Valley)	32	22	6	1930-72.	
21	Willow Spring	13	24	5	1940(?)&46.	
22	Paradise Valley	3	25	4	Unknown.	
23	Willow Basin	3	26	4	Do.	
HENRY MOUNTAINS COAL FIELD						
24	Factory Butte	11	27	9	Intermittent, 1900-1950(?)	
25	Dugout Creek	7	31	9	1900?	
26	Sweetwater Creek	30	31	9	Unknown.	

* A few small mines and several prospects have been opened mainly in Clear Creek Canyon and Red Canyon; the exact locations are unknown.

COAL-BEARING ROCKS (All of Cretaceous age)	COAL FIELDS			
	SALINA CANYON	WASATCH PLATEAU	EMERY	HENRY MOUNTAINS
Blackhawk Formation (Kb)	Important	Important	Important	Important.
Emery Sandstone Member of Mancos Shale (Kme)	Important	Important	Important	Important.
Ferron Sandstone Member of Mancos Shale (Kmf)	Important	Important	Important	Important.
Dakota Sandstone (Kd)	Coal present but noncommercial.	Coal present but noncommercial.	Coal present but noncommercial.	Coal present but noncommercial.

EXPLANATION
THICKNESS OF OVERBURDEN

More than 3,000 feet
2,000-3,000 feet
1,000-2,000 feet
Less than 1,000 feet

NOTE - Letter symbols indicate top or bottom of formation to which thickness of overburden information applies

Blackhawk Formation
Base of Blackhawk Formation
Top of Emery Sandstone Member of Mancos Shale
Top of Ferron Sandstone Member of Mancos Shale

BOUNDARY BETWEEN OVERBURDEN UNITS

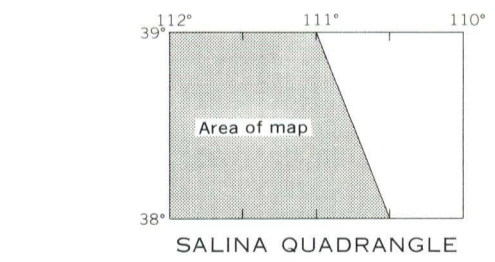
COAL OUTCROP - Line may represent more than one coal bed on steep slopes

FAULT - Bar and ball on downthrown side
STRIKE AND DIP OF BEDS
Horizontal
Inclined

AMOUNT OF OVERBURDEN ON COAL BEDS

In the Salina Canyon and Wasatch Plateau coal fields, the overburden thickness shown is from the land surface to the base of the Blackhawk Formation. The Blackhawk Formation is 750-900 feet thick, and contains minable coal beds in the lower half. In the Emery coal field the overburden thickness shown is to the top of the Ferron Sandstone Member of the Mancos Shale. The Ferron is 300-800 feet thick, and contains minable coal beds in the upper three quarters. The Ferron is approximately 3,800 feet below the base of the Blackhawk Formation.

In the Henry Mountains coal field, the overburden thickness is shown both to the top of the Emery Sandstone Member and to the top of the Ferron Sandstone Member of the Mancos Shale. The Emery is 250-450 feet thick and contains minable coal beds in the upper half. The Ferron is 150-350 feet thick and contains minable coal beds near its top. The base of the Ferron is approximately 1,500 feet below the Emery coal zone.



REFERENCES

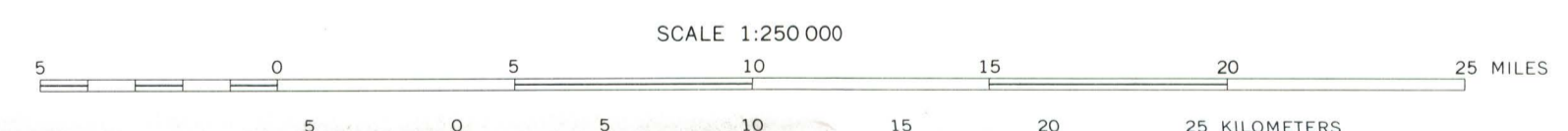
Doelling, H. H., 1971, Wasatch Plateau coal fields: Utah Geol. and Mineralogical Survey, open-file rept., 170 p.

Hunt, C. R., Avenitt, Paul, and Miller, R. L., 1953, Geology and mineralogy of the Henry Mountains region, Utah: U.S. Geol. Survey Prof. Paper 228, 234 p. [1954].

Lupton, C. T., 1916, Geology and coal resources of Castle Valley, in Carbon, Emery, and Sevier Counties, Utah: U.S. Geol. Survey Bull. 628, 88 p.

Speiker, E. M., 1931, The Wasatch plateau coal field: Utah: U.S. Geol. Survey Bull. 819, 210 p.

Speiker, E. M., and Baker, A. A., 1928, Geology and coal resources of Salina Canyon district, Sevier County, Utah: U.S. Geol. Survey Bull. 796-C, p. 125-170.



SCALE 1:250,000

CONTOUR INTERVAL 200 FEET
WITH SUPPLEMENTARY CONTOURS AT 100-FOOT INTERVALS
1972 MAGNETIC DECLINATION FOR THIS SHEET VARIES FROM 10-00' EASTERLY FOR THE CENTER OF THE WEST EDGE TO 10-30' WESTERLY FOR THE CENTER OF THE EAST EDGE. FROM ANNUAL CHANGE IS 0'00" WESTERLY.

MAPS SHOWING EXTENT AND THICKNESS OF COAL BEDS AND AMOUNT OF OVERBURDEN ON COAL BEDS IN THE SALINA QUADRANGLE, UTAH

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