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SYSTEM
SERIES
FORMATION
MEMBER
THOSE

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FOX HILLS SANDSTONE

Peacock

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MATION TROUT CREEK SANDSTONE MEN

BROWNFIELD AND PROST

(NO DATE, SECTION 10)

SW4 NE% SEC. 2

T. 7 N., R. 94 W.

BROWNFIELD AND PROST

(NO DATE, SECTION 8)

SEL NW SEC. 2

FU[9]

BROWNFIELD AND PROST

(NO DATE, SECTION 6)

NW NW SEC. 2

4.0 = -

Thickness of interval

3.5 = = -FU[9] NA 10.0 - - - FU[9] 11.5 = -

from datum to top of

proximately 280 feet

highest coal bed ap-

11. Coal 13. Sandstone, brown to gray, medium-grained 15. Sandstone, gray, poorly sorted, conglomerate 16. Unconformity 17. Sandstone, light-buff to light-tan, soft, fine-grained, interbedded with gray shale 19. Coal 20. Sandstone, gray to white, fossiliferous. with some interbedded shale 21. Shale, dark-gray to bluish, homogenous, with a few interbedded sandstone beds 22. Sandstone, brown to white, silty, with some

LITHOLOGIC DESCRIPTION

1. Sandstone, white, tuffaceous, composed of

coarse-grained quartz

3. Unconformity

5. Unconformity

9. Coal

rounded quartz grains, calcareous cementa-

interbedded gray shale and sandy shale 23. Sandstone, tan to white, massive, finegrained 24. Sandstone, light-brown to white; alternating with beds of gray shale, sandy shale, and carbonaceous shale 13 25. Coal 26. Sandstone, tan to white, massive; and shaly

235 27. Shale, gray to brown, interbedded with sandstones and sandy shales; sandstone, yellow, soft, massive 28. Sandstone, light-brown to white, massive, fine-grained, well-sorted, tightly cemented, and slightly calcareous

sandstone

Break in section, showing

thickness, in feet, not

plotted

400

230

Meters Feet

100

150

200

250

300 - 1000

Vertical scale

FU[8] - NA 5.5 = = = = FU[8] - 2.5 = -

U.S. GEOL. SURVEY, 1971.

INACTIVE COAL PROSPECTING

PERMIT NO. C-12705

SECTION 313

C Sty NW SEC. 1

---- 4.5---\_\_\_\_ **4**.0=\_

T. 7 N., R. 93 W.

3

BROWNFIELD AND PROST

(NO DATE, SECTION 27)

SEX SWX SEC. 31

BROWNFIELD AND PROST

SEL TO NW SEC. 31

Williams Fork Fm.

Lewis Shale

(NO DATE, SECTION 26)

9

BROWNFIELD AND PROST

NE SW SEC. 1

(NO DATE)

8

BROWNFIELD AND PROST (NO DATE)

SE NW & SEC.

Thickness of interval from

imately 330 feet

 $FU[9] \longrightarrow {}^{NA}_{4.0} = = = = = = FU[9] \longrightarrow {}^{NA}_{3.5}$ 

datum to coal bed approx-

BROWNFIELD AND PROST

SWA NEW SEC. 1

BROWNFIELD AND PROST

(NO DATE, SECTION 25)

NW SEC. 7

La \_\_\_\_ 1.5

Fort Union Fm.

(NO DATE)

BROWNFIELD AND PROST

(NO DATE)

BROWNFIELD AND PROST

(NO DATE, SECTION 14)

NEX SWY SEC. 1

Thickness of interval

from datum to top of

highest coal bed ap-

proximately 450 feet

TOWNSHIP LINE BETWEEN

NW NEW OF NW SEC. 2

BROWNFIELD AND PROST

(NO DATE)

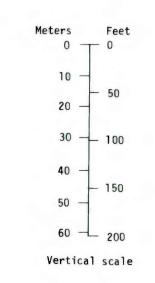
NE' NW SEC. 2

EXPLANATION Index number BROWNFIELD (1978, DRILL HOLE NO. LAY-6) Well or measured section name SW4 SE4 SEC. 33 Well or measured section location Altitude, in feet, of drill hole at surface (when no altitude - NA) No record of lithology Rock interval Coal bed, showing thickness in feet

Column shown closed if at total depth Coal interbedded with rock, total coal thickness/total rock thickness Break in rock interval, showing thickness, in feet, not plotted

Coal bed symbols and names - All unlabelled coals are in Fort Union Formation. Coal beds identified by bracketed numbers are not formally named, but are numbered for identification purposes in this quadrangle only. FU - Fort Union, undifferentiated

- Bv Blevins E - Emreson La - Lance
- WF Williams Fork P - Peacock



## REFERENCES

FU[15] 9

Thickness of interval

FU - 4.0 FU[13] - 3.0 5.0

from datum to top of

highest coal bed approximately 485 feet

Bass, N.W., Eby, J.G., and Campbell, M.R., 1955, Geology and mineral fuels of parts of Routt and Moffat Counties, Colorado: U.S. Geol. Survey Bull. 1027-D, p. 143-250.

Brownfield, M.E., 1978, Reconnaissance drilling during 1977 in the Yampa coal field, Moffat and Routt Counties, Colorado: U.S. Geol. Survey Open-File Report 78-365, 135 p.

Brownfield, M.E., and Prost, G., no date, Preliminary geologic map and coal sections of the Lay quadrangle, Moffat County, Colorado: U.S. Geol. Survey, open-file report, in preparation.

Hancock, E.T., 1925, Geology and coal resources of the Axial and Monument Butte quadrangles, Moffat County, Colorado: U.S. Geol. Survey Bull. 757, 134 p.

Muller, S.C., 1976, Lithologic and geophysical logs of seven holes drilled in 1975 in the Yampa and Danforth Hills coal fields, northwestern Colorado: U.S. Geol. Survey Open-File Report 76-383, 180 p.

Tweto, Ogden, compiler, 1976, Geologic map of the Craig 1° x 2° quadrangle, northwest Colorado: U.S. Geol. Survey Misc. Invest. Series Map I-972, scale 1:250,000.

U.S. Geol. Survey, 1971, Inactive coal prospecting permit No. Colorado

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BROWNFIELD AND PROST

(NO DATE, SECTION 29)

SEL SWI SEC. 31

Waliham Mine

DATUM

BROWNFIELD AND PROST (NO DATE, SECTION 28)

SE% SW% SEC. 31

Exact stratigraphic positions unknown