



DATA FOR DRILL HOLES USED IN CORRELATIONS

Drill Hole	Name	T.	R.	Sec.	Total depth (feet)	Source
1	Y-5 (LSE-10)	7 N.	93 W.	32	614	Muller (1976)
2	R-2-JHS	6 N.	93 W.	18	961	Johnson and Hook (1985)
3	R-18-HG	6 N.	93 W.	21	1,379	Do.
4	R-6-HG	6 N.	93 W.	27	1,184	Meyer (1978)
5	R-7-HG	6 N.	93 W.	26	1,183	Do.
6	R-8-HG	6 N.	93 W.	25	1,256	Do.
7	R-11-HG	6 N.	92 W.	31	1,501	Do.
8	E-16-HG	6 N.	92 W.	32	1,380	Johnson (1978)
9	MC-1	5 N.	92 W.	8	1,001	Johnson and Hook (1985)
10	MC-3	5 N.	92 W.	9	1,380	Do.
11	E-21-RdB	5 N.	92 W.	10	1,310	Johnson and Brown (1979)
12	BRG-3	6 N.	92 W.	26	1,496	Johnson and Hook (1985)
13	BRG-1	6 N.	92 W.	23	1,763	Do.
14	BRG-2	6 N.	92 W.	24	1,810	Do.
15	HNG-7c	6 N.	91 W.	30	1,520	Proprietary data
16	E-1-RdB	5 N.	91 W.	5	1,106	Johnson (1978)
17	CR-200	5 N.	91 W.	4	1,043	Proprietary data
18	CG-3	5 N.	91 W.	11	1,035	Johnson and Hook (1985)
19	CG-5	5 N.	91 W.	12	895	Do.
20	CG-8	5 N.	90 W.	8	1,000	Do.
21	CG-9	5 N.	90 W.	9	937	Do.
22	BM-49	5 N.	90 W.	10	957	Do.
23	BM-48	5 N.	90 W.	11	1,180	Do.
24	BM-45	5 N.	89 W.	8	1,004	Brownfield (1978)
25	BM-40	5 N.	89 W.	17	1,036	Do.
26	BM-24	5 N.	89 W.	20	712	Do.
27	HAY G-11	5 N.	89 W.	27	798	Do.
28	HAY G-14	5 N.	89 W.	35	570	Johnson and Hook (1985)
29	HAY G-15a	5 N.	89 W.	25	1,455	Do.
30	B-M-G 3-2	5 N.	88 W.	2	2,661	Benson-Montin-Greer Drilling, 1972
31	C&U 6	6 N.	87 W.	15	1,363	Colorado and Utah Coal Company (Harris Mines, Inc.; unpub. data, 1958)
32	C&U 4	6 N.	87 W.	28	747	Do.
33	HM 1	6 N.	87 W.	34	317	Do.
34	M-3	6 N.	86 W.	34	1,000	Do.
35	OC-1	5 N.	85 W.	7	698	Do.
36	RB-14	5 N.	86 W.	34	1,230	Do.
37	OC-1	4 N.	86 W.	14	774	Brownfield (1978)

SOURCES OF COAL-BED AND COAL-ZONE NOMENCLATURE USED

Drill hole	Sources
1	Fenneman and Gale (1906)
2-16	Modified after Empire Energy, Corp.
17-21	Modified after Trapper Mining, Inc.
22-37	Bass and Others (1955)

NOTE
This report shows coal-bed and coal-zone correlations for part of the Upper Cretaceous Mesaverde Group in the Yampa coal field of northwest Colorado. The Mesaverde Group consists of the Iles Formation in the lower part and the Williams Fork Formation in the upper part. Each formation has a prominent regressive marine sandstone as a member. At the top of the Iles Formation is the Trout Creek Sandstone Member within the zone of *Exileloceras jennepi* (Zapp and Cobban, 1960), and in the middle of the Williams Fork Formation is the Twentymile Sandstone Member within the zone of *Baculites reesidei*, Fenneman and Gale (1906), in discussing the coal of the Mesaverde Group in northwest Colorado, designated the coal in the Iles Formation as the lower group, the coal between the Trout Creek and Twentymile Sandstone Members as the middle coal group (referred to as the Mount Harris Member of the Williams Fork Formation by Morris (1971)), and the coal above the Twentymile Sandstone as the upper coal group.
The coal correlations extend from near Jay, Colorado, on the west, to Oak Creek, Colorado, on the east—a distance of about 47 miles. The correlations were constructed by correlating coal beds identified in geophysical logs of 37 drill holes. The correlations used as a datum the regionally extensive altered tuff (now claystone) named by Brownfield and Johnson (1986) as the Yampa bed. This claystone is identified on geophysical logs as a spike of low resistance. Although some individual coal beds can be traced in the subsurface for several miles and are so shown in the correlations, most beds are grouped into zones which can be traced for even greater distances. In many cases, correlation of coal beds and coal zones was facilitated by noting the lateral continuity of fluvial sandstone bodies as observed on the geophysical logs. Names of coal beds and coal zones change along the correlations because of the different nomenclature used in nearby mines or in reports of the area. Current U.S. Geological Survey coal-zone nomenclature for the western Yampa coal field includes the use of the Culverwell, Eligen, and Hamill zones (Johnson and Hook, 1985). Names and correlations shown for drill holes 2, 3, 9, and 10 supersede those shown in Johnson and Hook (1985).

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REGIONAL CORRELATION OF THE MIDDLE COAL GROUP OF THE UPPER CRETACEOUS MESAVERDE GROUP,
YAMPA COAL FIELD, MOFFAT AND ROUTT COUNTIES, COLORADO

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