

FIGURE 1—INDEX MAP SHOWING LOCATION OF STUDY AREA AND OUTLINE OF WASHARE AND SAND WASH BASINS.

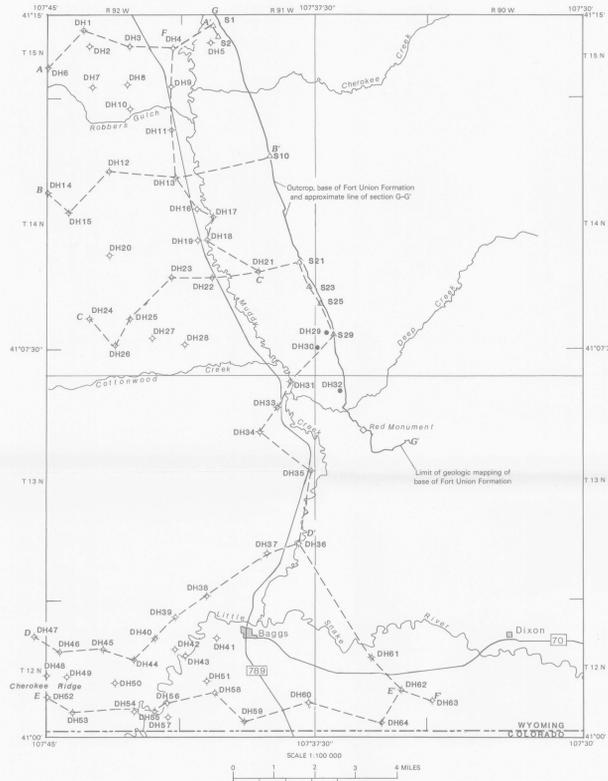


FIGURE 2—INDEX MAP SHOWING U.S. GEOLOGICAL SURVEY QUADRANGLES INCLUDED IN STUDY AREA (SHADED) AND MENTIONED IN TEXT.



FIGURE 3—MAP OF STUDY AREA SHOWING LINES OF CROSS SECTION AND LOCATIONS OF URANIUM (●) AND GAS (○) DRILL HOLES, AND MEASURED SECTIONS (A) CORRELATED TO DRILL HOLES.

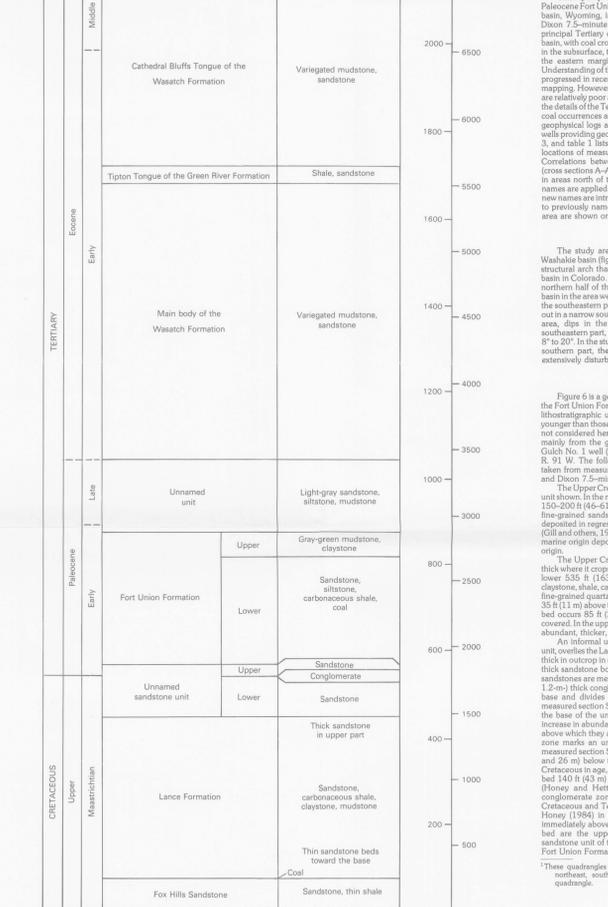


FIGURE 4—PRELIMINARY GEOLOGIC MAP OF PARTS OF THE PEACH ORCHARD FLAT, SMILEY DRAW, DIXON, AND BAGGS QUADRANGLES, SHOWING LOCATIONS OF COAL OUTCROPS AND MEASURED SECTIONS.

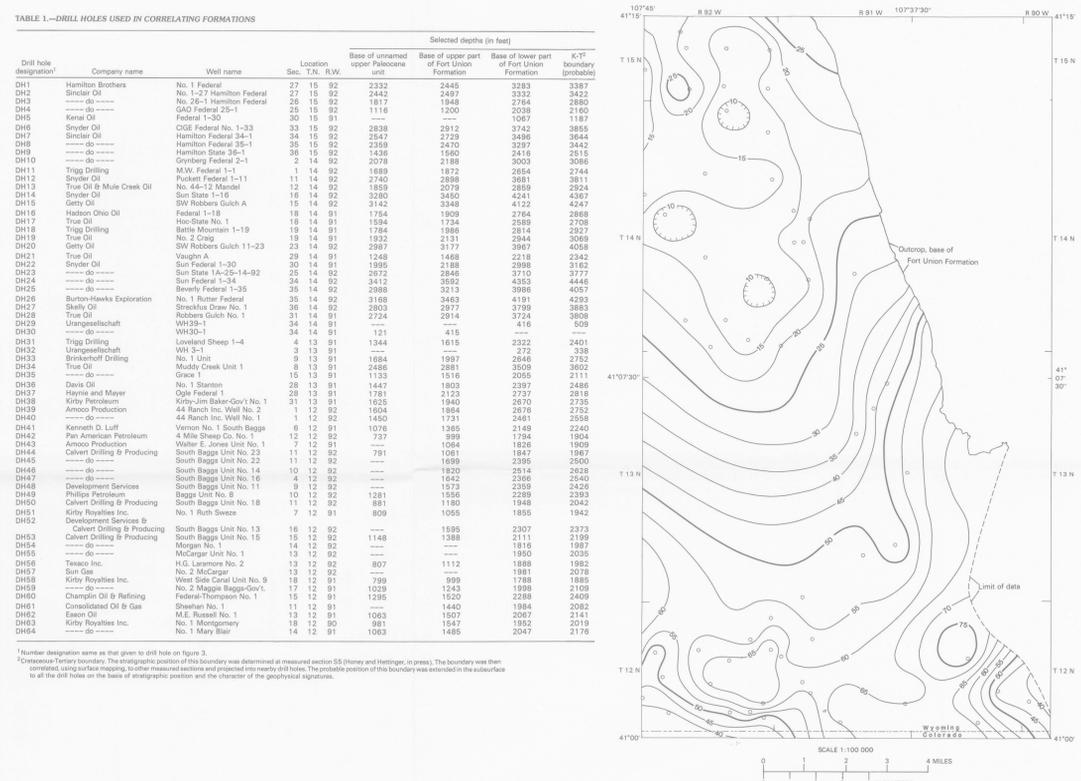


FIGURE 5—MAP SHOWING ISOPACHS OF TOTAL COAL IN THE LOWER PART OF THE FORT UNION FORMATION.

TABLE 1.—DRILL HOLES USED IN CORRELATING FORMATIONS

Drill hole designation	Company name	Well name	Sec.	Twp.	R.	Loc.	Base of unnamed upper Paleocene	Selected depths (in feet)	Base of Fort Union Formation	Base of lower part of Fort Union Formation	C-7? boundary	
DH1	Hamilton Brothers	No. 1 Federal	27	15	92	2332	2445	3283	3387			
DH2	Stetler Oil	No. 2-7 Hamilton Federal	27	15	92	2442	2487	3332	3422			
DH3	No. 2-1 Hamilton Federal	No. 2-1 Hamilton Federal	26	15	92	1917	1846	2718	2850			
DH4	GAD Federal 25-1	GAD Federal 25-1	25	15	92	1116	1200	2038	2180			
DH5	Federal 1-30	Federal 1-30	30	15	91	—	—	1037	1187			
DH6	Snyder Oil	CDC Federal No. 1-33	33	15	92	2838	2912	3742	3855			
DH7	Snyder Oil	Hamilton Federal 35-1	34	15	92	2947	2972	3456	3486			
DH8	—do—	Hamilton Federal 35-1	35	15	92	2359	2470	3297	3442			
DH9	—do—	Hamilton Federal 35-1	36	15	92	1436	1500	2418	2418			
DH10	Trigg Drilling	Gwynberg Federal 2-1	2	14	92	2078	2189	3003	3086			
DH11	Trigg Drilling	Sun State 1-1	1	14	92	1869	1909	2854	2944			
DH12	Snyder Oil	Puckett Federal 1-1	1	14	92	2740	2859	3681	3811			
DH13	Trigg Drilling	Sun State 1-1	1	14	92	1869	1909	2854	2944			
DH14	Snyder Oil	Sun State 1-1	1	14	92	3280	3450	4241	4367			
DH15	Gully Oil	SW Robbers Gulch A	15	14	92	3142	3248	4123	4247			
DH16	Hudson Ohio Oil	Federal 1-18	18	14	91	1754	1809	2764	2868			
DH17	True Oil	Ho-Side No. 1	18	14	91	1934	1734	2589	2708			
DH18	Trigg Drilling	Battle Mountain 1-19	19	14	91	1784	1866	2814	2924			
DH19	True Oil	No. 2 Craig	19	14	91	1932	2131	2944	3069			
DH20	Gully Oil	SW Robbers Gulch 11-23	23	14	92	2987	3177	3967	4068			
DH21	True Oil	Vaughn A	29	14	91	1248	1468	2218	2342			
DH22	Snyder Oil	Sun Federal 1-30	30	14	91	1133	1242	2058	2180			
DH23	—do—	Sun State 1A-25-14-92	25	14	92	2672	2846	3710	3777			
DH24	—do—	Sun Federal 1-30	30	14	91	1133	1242	2058	2180			
DH25	—do—	Beverly Federal 1-35	35	14	92	2988	3213	3996	4057			
DH26	—do—	No. 1 Foster Federal	1	14	92	3166	3463	4183	4446			
DH27	—do—	Shelly Oil	36	14	92	2803	2977	3789	3883			
DH28	—do—	Robbers Gulch No. 1	31	14	91	1932	2914	3739	3908			
DH29	—do—	WH39-1	34	14	91	2724	2914	416	509			
DH30	—do—	WH30-1	34	14	91	2724	2914	416	509			
DH31	Trigg Drilling	Loveland Sheep 1-4	4	13	91	1344	1615	2322	2401			
DH32	—do—	WH 3-1	3	13	91	1684	1997	272	338			
DH33	—do—	Breakoff Drilling	No. 1 Unit	8	13	91	2486	2881	3509	3602		
DH34	—do—	True Oil	True 1	15	13	91	1133	1816	2058	2180		
DH35	—do—	—do—	—do—	15	13	91	1133	1816	2058	2180		
DH36	—do—	—do—	—do—	15	13	91	1133	1816	2058	2180		
DH37	—do—	—do—	—do—	15	13	91	1133	1816	2058	2180		
DH38	—do—	—do—	—do—	15	13	91	1133	1816	2058	2180		
DH39	—do—	—do—	—do—	15	13	91	1133	1816	2058	2180		
DH40	—do—	—do—	—do—	15	13	91	1133	1816	2058	2180		
DH41	—do—	—do—	—do—	15	13	91	1133	1816	2058	2180		
DH42	—do—	—do—	—do—	15	13	91	1133	1816	2058	2180		
DH43	—do—	—do—	—do—	15	13	91	1133	1816	2058	2180		
DH44	—do—	—do—	—do—	15	13	91	1133	1816	2058	2180		
DH45	—do—	—do—	—do—	15	13	91	1133	1816	2058	2180		
DH46	—do—	—do—	—do—	15	13	91	1133	1816	2058	2180		
DH47	—do—	—do—	—do—	15	13	91	1133	1816	2058	2180		
DH48	—do—	—do—	—do—	15	13	91	1133	1816	2058	2180		
DH49	—do—	—do—	—do—	15	13	91	1133	1816	2058	2180		
DH50	—do—	—do—	—do—	15	13	91	1133	1816	2058	2180		
DH51	—do—	—do—	—do—	15	13	91	1133	1816	2058	2180		
DH52	—do—	—do—	—do—	15	13	91	1133	1816	2058	2180		
DH53	—do—	—do—	—do—	15	13	91	1133	1816	2058	2180		
DH54	—do—	—do—	—do—	15	13	91	1133	1816	2058	2180		
DH55	—do—	—do—	—do—	15	13	91	1133	1816	2058	2180		
DH56	—do—	—do—	—do—	15	13	91	1133	1816	2058	2180		
DH57	—do—	—do—	—do—	15	13	91	1133	1816	2058	2180		
DH58	—do—	—do—	—do—	15	13	91	1133	1816	2058	2180		
DH59	—do—	—do—	—do—	15	13	91	1133	1816	2058	2180		
DH60	—do—	—do—	—do—	15	13	91	1133	1816	2058	2180		
DH61	—do—	—do—	—do—	15	13	91	1133	1816	2058	2180		
DH62	—do—	—do—	—do—	15	13	91	1133	1816	2058	2180		
DH63	—do—	—do—	—do—	15	13	91	1133	1816	2058	2180		
DH64	—do—	—do—	—do—	15	13	91	1133	1816	2058	2180		

FIGURE 5—MAP SHOWING ISOPACHS OF TOTAL COAL IN THE LOWER PART OF THE FORT UNION FORMATION.

TABLE 2.—CORRELATION OF MAP UNITS

Qal	Holocene and Pleistocene	QUATERNARY
Twp	Tertiary <th>TERTIARY</th>	TERTIARY
Tu	Upper Cretaceous <th>CRETACEOUS</th>	CRETACEOUS
Ku	Upper Cretaceous <th>CRETACEOUS</th>	CRETACEOUS

TABLE 3.—DESCRIPTION OF MAP UNITS

Qal	Alluvium (Holocene and Pleistocene)—Terrace deposits and colluvium
Twp <td>Brown Park Formation (Miocene and Oligocene)</td>	Brown Park Formation (Miocene and Oligocene)
Tm <td>Main body of the Wasatch Formation (Eocene)</td>	Main body of the Wasatch Formation (Eocene)
Tu <td>Unnamed upper Paleocene unit</td>	Unnamed upper Paleocene unit
Tu <td>Fort Union Formation (Paleocene)—Coal zones in lower part of Fort Union. Coal zones not labeled where name is known; not labeled where zone is not named or where correlation of zone is not determined. Coal zones in descending order are Filmore Ranch (FR), upper part of Muddy Creek (MC), lower part of Muddy Creek (MC), Fossiliferous Point (FP), coal beds tentatively correlated to Dixon Draw coal zone north of Peach Orchard Flat 7.5-minute quadrangle (DD), and coal beds tentatively correlated to Fall River coal zone north of Peach Orchard Flat 7.5-minute quadrangle (RR)</td>	Fort Union Formation (Paleocene)—Coal zones in lower part of Fort Union. Coal zones not labeled where name is known; not labeled where zone is not named or where correlation of zone is not determined. Coal zones in descending order are Filmore Ranch (FR), upper part of Muddy Creek (MC), lower part of Muddy Creek (MC), Fossiliferous Point (FP), coal beds tentatively correlated to Dixon Draw coal zone north of Peach Orchard Flat 7.5-minute quadrangle (DD), and coal beds tentatively correlated to Fall River coal zone north of Peach Orchard Flat 7.5-minute quadrangle (RR)
TKs <td>Unnamed Cretaceous and Tertiary sandstone unit (Paleocene and Upper Cretaceous)—Contains conglomerate matrix; bed (G) conglomerate bed represents Cretaceous-Tertiary unconformity</td>	Unnamed Cretaceous and Tertiary sandstone unit (Paleocene and Upper Cretaceous)—Contains conglomerate matrix; bed (G) conglomerate bed represents Cretaceous-Tertiary unconformity
Ki <td>Lance Formation (Upper Cretaceous)</td>	Lance Formation (Upper Cretaceous)
Ku <td>Pre-Lance Formation rocks, undifferentiated (Upper Cretaceous)</td>	Pre-Lance Formation rocks, undifferentiated (Upper Cretaceous)

TABLE 4.—SYMBOLS FOR CONTACTS AND STRIKE AND DIP OF BEDS

—	Contact—Long dashed where approximately located, short dashed where inferred, open where indistinct
—	Coal zone—Long dashed where approximately located, short dashed where inferred
—	Chert—Solid black and (or) lined by the top face of an underlying coal bed. Outcrop trace of the coal bed, prior to burning, shown by a thin line; outcrop trace of the coal bed, after burning, shown by a thick line
—	Strike and dip of beds
S23	Line of measured section—Showing number on cross-section and
●	Drill hole
○	Gas hole

FIGURE 6—CHART SHOWING MAJOR UPPER CRETACEOUS AND LOWER TERTIARY LITHO STRATIGRAPHIC UNITS IN THE STUDY AREA. WYOMING UPPER TERTIARY BROWN PARK FORMATION AND HOLOCENE AND PLEISTOCENE ALLUVIUM NOT SHOWN. ONLY PARTIAL THICKNESS SHOWN FOR FOX HILLS SANDSTONE AND CATHEDRAL BLUFFS TONGUE OF THE WASATCH FORMATION.



FIGURE 6—CHART SHOWING MAJOR UPPER CRETACEOUS AND LOWER TERTIARY LITHO STRATIGRAPHIC UNITS IN THE STUDY AREA. WYOMING UPPER TERTIARY BROWN PARK FORMATION AND HOLOCENE AND PLEISTOCENE ALLUVIUM NOT SHOWN. ONLY PARTIAL THICKNESS SHOWN FOR FOX HILLS SANDSTONE AND CATHEDRAL BLUFFS TONGUE OF THE WASATCH FORMATION.

STRATIGRAPHIC SECTIONS SHOWING COAL CORRELATIONS WITHIN THE LOWER PART OF THE FORT UNION FORMATION OF THE BAGGS AREA, CARBON COUNTY, WYOMING

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