*
(200)
T672

LITHOLOGIC DATA

AUGER HOLES

Number	Description	
H - 1 1/	0 - 1.3 ft.	Gravel and white sand (terrace deposit)
	1.3 - 3.0 ft.	Gray-green silty gypsiferous clay
	3.0 - 5.0 ft.	Gray-green silty clay
	5.0 - 6.0 ft.	Clay, silt, and green to buff sand
	Radioactivity:	Two divisions above background on Survey meter
H - 2 1/	0 - 0.5 ft.	Gravel (terrace deposit)
	0.5 - 1.3 ft.	Gray to brown sandy clay
	1.3 - 2.3 ft.	Schroeckingerite and gypsum in green clay
	2.3 - 2.8 ft.	Clayey sand
	Radioactivity:	Average of 32 divisions on a Survey meter above background from 1.3 to 2.3 feet and only slight radioactivity in remaining part of hole
H - 3	Maroon sandy clay	
H - 4	Green gravelly clay	
H - 5	Gravel (terrace deposit)	
H - 6	White-weathering brown gravel (terrace deposit)	
H - 7	White-weathering brown gravel with some white clay (terrace deposit ?)	
H - 8	Light green silty clay	
H - 9	White-weathering buff and green sand, and gravel; fluorescent chalcedony in gravel (terrace deposit ?)	
H - 10	Green sand (terrace deposit)	
H - 11	Green clay with gravel (terrace deposit)	
H - 12	Green clay	
H - 13	Green clay	
H - 14	Green gravel (terrace deposit)	
H - 15	Filled, gravel (terrace deposit)	
H - 16	Filled, gravel (terrace deposit)	
H - 17	Filled, sand and gravel (terrace deposit) over green sandy silt	
H - 18	Filled, sand and gravel (terrace deposit) over green sandy silt	
H - 19	Filled, schroeckingerite pellets in gray-green platy shale; brown sand	
H - 20	Buff silt (terrace deposit)	
H - 21	White sand (colluvium)	
H - 22	White coarse sand (colluvium? and terrace deposit)	
H - 23	Filled, gravel (terrace deposit)	
H - 24	Filled, platy gray-brown shale (schroeckingerite ?)	
H - 25	Filled, gravel (terrace deposit, colluvium)	
H - 26 1/	0 - 2 ft.	Sand and gravel (terrace deposit ?, colluvium ?)
	2 - 3 ft.	Sandy clay
	3 - 4 ft.	Platy purple clay
	4 - 4.5 ft.	White sand
	No schroeckingerite	
H - 27 1/	0 - 1 ft.	Purple silty clay
	1 - 2 ft.	White coarse sand
	2 - 3.5 ft.	Purple to green silty clay. Iron-stained zone at 3.3 feet
	3.5 - 4.5 ft.	Gray-green silty clay
	4.5 - 4.8 ft.	Buff to gray plastic clay
	4.8 - 5.2 ft.	Schroeckingerite in gray to brown clay and silt
	5.2 - 5.6 ft.	Blocky gray silty clay
H - 28 1/	0 - 2 ft.	Gray and green mottled clay
	2 - 2.5 ft.	Gypsiferous orange sand
	2.5 - 3.0 ft.	Gray silty clay and gray clay
	No schroeckingerite	
H - 29	Brown clay	
H - 30 1/	0 - 9.7 ft.	Green, white and buff sand and gravel (terrace deposit ?)
	9.7 - 10.2 ft.	Mottled argillaceous sand
	10.2 - 10.5 ft.	Clay
	10.5 - 11.2 ft.	Green silt or fine sand
	11.2 - 13.4 ft.	Green to olive-brown sand
	13.4 - 16 ft.	Gray-green silt, flakes and pellets of gray platy shale, the ore-bearing bed in trench E_1
	No schroeckingerite	
H - 31	Green silty sand	
H - 32 1/	0 - 4 ft.	Trench fill
	4 - 6.1 ft.	Green clayey silt with some sand
	6.1 - 7.4 ft.	Gray clay. Platy shale fragments at 6.8 feet
	7.4 - 7.6 ft.	Purple clay
	7.6 - 8.0 ft.	Solution zone, brown to buff coarse sand
	Radioactivity:	Average of 10 divisions above background on Survey meter from 7.4 to 7.6 feet; average of 5 divisions above background from 7.6 feet to 8.0 feet.
	No schroeckingerite	
H - 33	Schroeckingerite in gray silty clay	
H - 34	Schroeckingerite in gray silty clay	
H - 35	Sand and gravel (terrace deposit)	
H - 36	Filled, green sandy clay (terrace deposit ?)	
H - 37	Iron-stained clay and sand	

1/ U. S. Geological Survey auger holes, 1949

PITS AND BULLDOZER CUTS

Number	Description
1	Schroeckingerite pellets in green silty clay
2	Schroeckingerite pellets and flakes in gray-green clay above iron-stained solution zone in green or clayey sand
3	Silt (terrace deposit)
4	Schroeckingerite pellets and gypsum in gray-green platy silty shale
5	White to brown gravel (terrace deposit)
6	Gravel (terrace deposit)
7	White sand, brown clayey sand and gravel (terrace deposit)
8	Schroeckingerite pellets in curly gray platy shale overlying iron-stained solution zone in white sand
9	Schroeckingerite pellets in green sandy silt below basal boulder-gravel bed of terrace deposit
10	White to brown clayey sand and colluvium
11	Brown-white clayey gravel (terrace deposit)
12	Gravel (terrace deposit)
13	Schroeckingerite pellets with white efflorescent salt in gray clay
14	Schroeckingerite pellets in gray-green clay, and sandy silt. (Pit contains water)
15	Gravel of subangular frosted quartz and feldspar grains (terrace deposit)
16	Schroeckingerite in green silt on dump (filled pit)
17	White to buff and green sand (terrace deposit)
18	Schroeckingerite pellets in gray-green and purple platy shale above brown-stained solution zone in white sand
19	Schroeckingerite pellets in green clayey silt above iron-stained solution zone in white micaceous sand
20	Schroeckingerite flakes in gray-green platy shale above iron-stained solution zone in white sand, gravel (faulted)
21	Gray-green clay over orange-stained white sand; no schroeckingerite
22	Schroeckingerite pellets in green silt overlying iron-stained sand on west and north sides; platy gray-green shale, no schroeckingerite overlying silt on south and east sides (faulted)
23	Green clayey sand (terrace deposit) over gray-green gypsiferous clay
24	Schroeckingerite pellets in gray curly platy shale over iron-stained solution zone in white sand; clay streaks 10 and 17 inches below contact also contain schroeckingerite
25	Gray-green sand and clayey sand (terrace deposit)
26	Green-white sand, gravel (terrace deposit)
27	Schroeckingerite pellets in gray-green platy shale over iron-stained solution zone in white sand
28	Schroeckingerite pellets in gray-green platy shale over iron-stained solution zone in white sand
29	Filled with gravel (terrace deposit)
30	Filled with white-weathering brown sand (terrace deposit)

OUTCROPS

Reference	Description
Outcrop A	(Units a to i) - See text
Outcrop B	(Units a to f) - See text
Outcrop C	Unit a - white-weathering brown sand
	Unit b - medium-grained green sand, some clay
Outcrop D	Brown clay; may include some Green River shale
(a)	Platy brown Green River shale
(b)	Green sand
(c)	Green clay, with pellets, flakes of schroeckingerite in an irregular zone two inches thick adjacent to overlying iron-stained solution zone in sand
(d)	Schroeckingerite in green-gray clay
(e)	Gray and maroon-mottled clay
(f)	Green, chocolate, or maroon sandy clay
(g)	Schroeckingerite pellets in gray-green platy shale above iron-stained sand
(h)	Schroeckingerite pellets in green clay

EXPLANATION

Quaternary — Recent

Alluvium (Qal)

Largely coarse, brown to white sand and gravel, of undetermined thickness occupying the present bed of Lost Creek.

Colluvium (Qcl)

Slope wash from overlying units.

Terrace deposit (Qt1)

Fluvial, brown or drab silt and varve-like bands of humus. A terrace 10-17 feet above the Recent alluvium is the upper surface of the deposit; the base of the deposit is concealed.

Quaternary — Pleistocene

Terrace deposit (Qt2)

Fluvial coarse white sand and green or brown clay and silt. Its maximum thickness is about 6 feet. The surface of the deposit is from 17 to 40 feet above Recent alluvium.

Tertiary — Eocene

Eocene sediments undifferentiated (Teu)

Probably includes facies of Wasatch, Green River, and lower Bridger formations. The sediments are green and brown clay, green silt, and green to buff sand and gravel. Some of these sediments have been mapped and are shown as units; for example, in outcrop A, "units a to i."

Green River formation (Tgr)

Includes only lacustrine gray-to-brown platy shale. Other facies of the formation are included in "Eocene sediments undifferentiated."

Ore bed exposed, schroeckingerite in platy gray or brown shale, overlying iron-stained solution zone in white or brown sand. Exceptions to this lithology are noted.

Strike and dip of bed

Ore bed projected

Fault, showing dip

Ore not exposed, schroeckingerite observed in dump.

Probable fault

Approximate limit of fault zone

Gradational contact

Contact projected

Vegetation boundary

Trench "M" and dump

Auger hole no. 37

Prospect pit no. 3 and dump

Outcrop (too small to show contacts)

Bulldozer cut no. 11 and dump

Area in which bedrock crops out. Lithology shown in table of lithologic data.

Perennial stream

Marsh

Intermittent stream

Secondary road and bridge

Contour lines

Fence

Depression contour

Building

Pond

SUPPLEMENTAL EXPLANATION FOR CROSS-SECTIONS

Platy shale

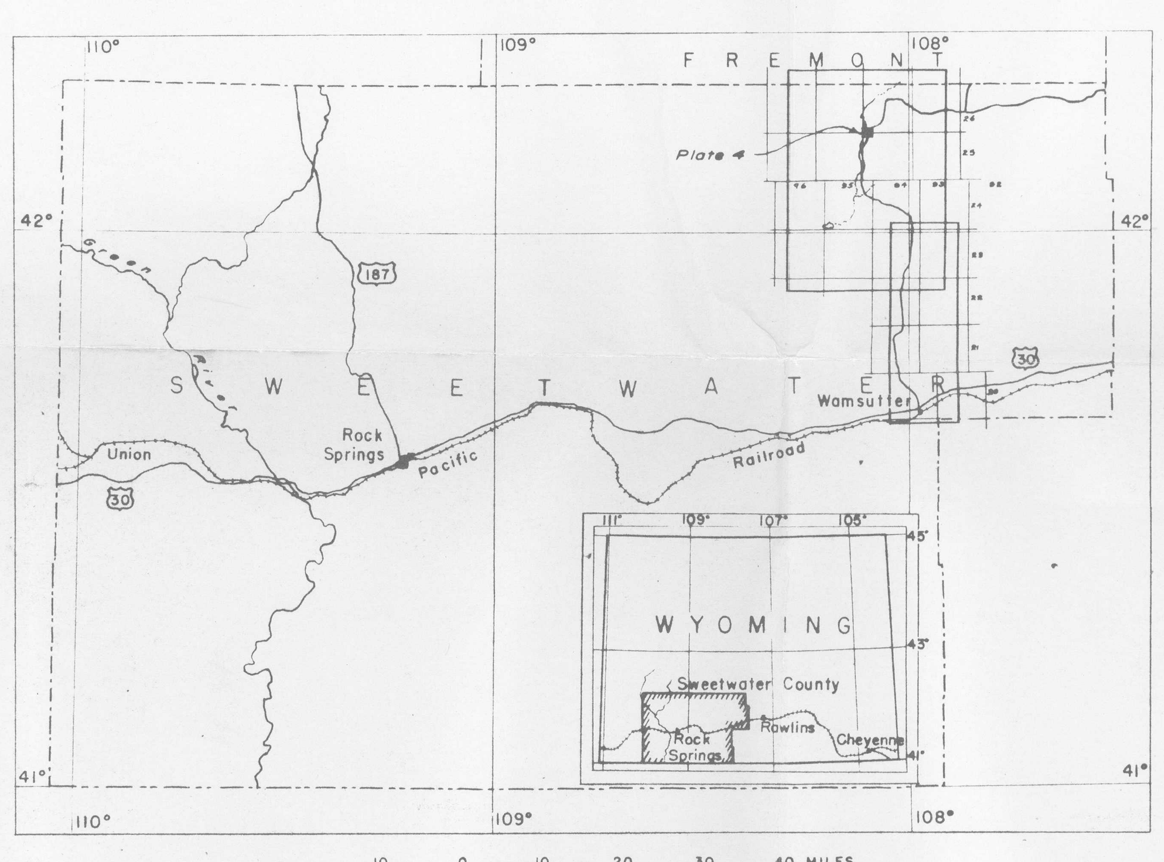
Clay

Silt

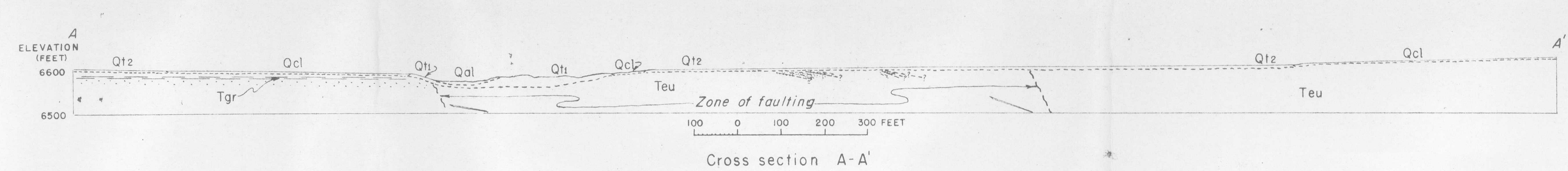
Sand

Lignite bed projected

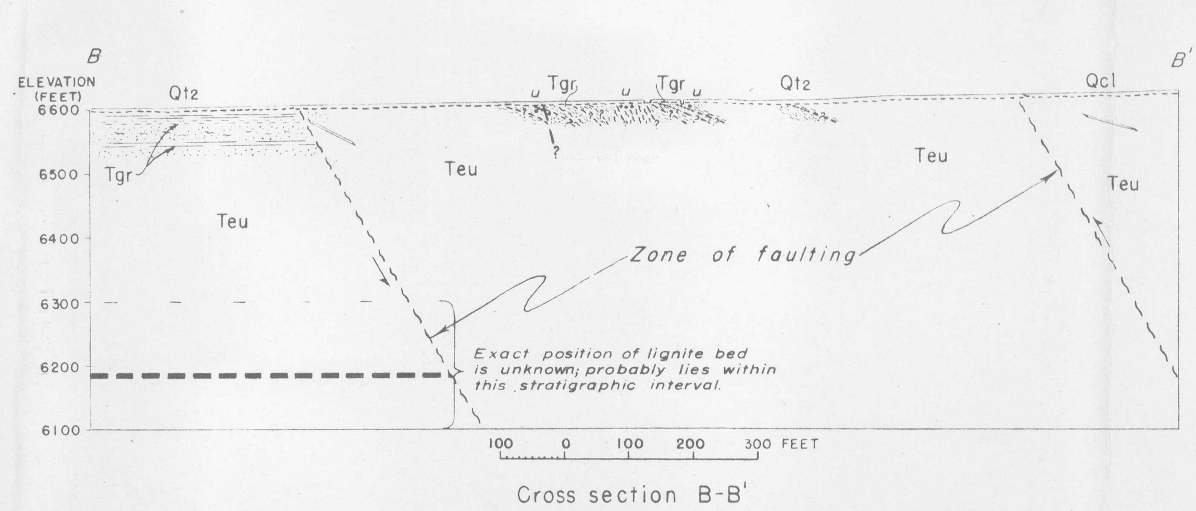
General dip of beds; lithology unknown



Index Map



Cross section A-A'



Cross section B-B'

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PLEASE REPLACE IN POCKET
IN BACK OF BOUND VOLUME

Plate 4.-GEOLOGIC MAP AND SECTIONS OF THE LOST CREEK SCHROECKINGERITE DEPOSIT, SWEETWATER COUNTY, WYOMING

Geology and topography by D.G. Wyant
W.N. Sharp, H.L. Bauer 1949