*
(200)
T67M
no.122

LITHOLOGIC DATA

ASSAY SOLAR

Marker	Description
a - 1 W	0 - 0.3 ft. Gravel and white sand (Tertiary Gravel?)
	0.3 - 1.2 ft. Gray-green silty glauconitic clay
	1.2 - 5.2 ft. Greyish-green silty clay
	5.2 - 6.2 ft. Clay, silty, wet green to buff sand
	Radioactivity: Non detectable above background on Geiger counter
a - 2 W	0 - 0.3 ft. Gravel (Tertiary Gravel?)
	0.3 - 1.2 ft. Clay to brown sandy clay
	1.2 - 1.3 ft. Brownish-yellow soft gypsum to green clay
	1.3 - 5.2 ft. Clayey sand
	Radioactivity: average of 20 readings on a Geiger counter of 0.2 mr/hr (Tertiary Gravel?) - 0.3 mr/hr (Tertiary Clay) - 0.2 mr/hr (Tertiary Sand)
E - 3	Tarnish silty clay
E - 4	Brown gravel, clay
E - 5	Brown (Tertiary Gravel?)
E - 6	Yellowish-white, green (Tertiary Gravel?)
E - 7	Yellowish-white, brown gravel (Tertiary Gravel?)
E - 8	Yellowish-white, green silty clay (Tertiary Gravel?)
E - 9	10 ft. green silty clay
E - 9	Yellowish-white, buff wet (green sand, and gravel)
E - 10	Yellowish-white, green, brown (Tertiary Gravel?)
E - 10	Brown sand (Tertiary Gravel?)
E - 11	Brown silty sand gravel (Tertiary Gravel?)
E - 12	Brown clay
E - 13	Brown clay
E - 14	Brown gravel (Tertiary Gravel?)
E - 15	Yellow, gravel (Tertiary Gravel?)
E - 16	Yellow, gravel (Tertiary Gravel?)
E - 17	Yellow, gravel (Tertiary Gravel?)
E - 18	Yellow, wet sand gravel (Tertiary Gravel?) wear green sandy silt
E - 19	Yellow, wet sand gravel (Tertiary Gravel?) wear green sandy silt
E - 19	Brownish-yellow sandstone pellets in gray-green plastic shale, brown sand
E - 20	Buff silt (Tertiary Gravel?)
E - 21	White sand (unidentified)
E - 22	White coarse sand (unidentified Tertiary Gravel?)
E - 23	Yellow, gravel (Tertiary Gravel?)
E - 24	Yellow, light, gray-brown shale (Tertiary Gravel?)
E - 25	Yellow, gravel (Tertiary Gravel?, Unidentified)
E - 26 W	0 - 2 ft. Buff silt gravel (Tertiary Gravel?) t. unidentified)
	2 - 3 ft. Sandy clay
	3 - 5 ft. Fine sandy clay
	5 - 5.2 ft. White sand
	Radioactivity: In microcuries/gram
E - 27 W	0 - 1 ft. Fine sandy clay
	1 - 2 ft. White coarse sand
	2 - 5.2 ft. Pale to green silty clay. Brownish color at 3.5-3.8 feet
	3.5 - 5.2 ft. Gray-green silty clay
	5.2 - 5.8 ft. Buff to gray sandy clay
	5.8 - 5.8 ft. Sandstone pellets in gray to brown clay and silt
	5.8 - 6.2 ft. Sandy gray silty clay
	6 - 7 ft. Gray to green mottled clay
	7 - 8.2 ft. Greenish-gray sandy sand
	8.2 - 9.2 ft. Gray silty clay and gray clay in sandstone pellets
E - 28	Brown clay
E - 29 W	0 - 0.2 ft. Brown, fine sand (Tertiary Gravel?)
	0.2 - 10.2 ft. Yellow, silt (Tertiary Gravel?)
	10.2 - 10.5 ft. Clay
	10.5 - 11.2 ft. Brown silt to fine sand
	11.2 - 12.2 ft. Brown to olive-brown sand
	12.2 - 13 ft. Brownish silty fine sand (Tertiary Gravel?)
	Radioactivity: average of 20 readings above background on Geiger counter (0.1 - 0.2 mr/hr) - average of 3 readings above background on Geiger (0.1 - 0.2 mr/hr)
	In microcuries/gram
E - 31	Brown-to-white to gray silty clay
E - 32	Brownish-yellow to gray silty clay
E - 33	Sand and gravel (Tertiary Gravel?)
E - 34	Yellow, green silty clay (Tertiary Gravel?)
E - 35	Brownish-tan silt, wet sand

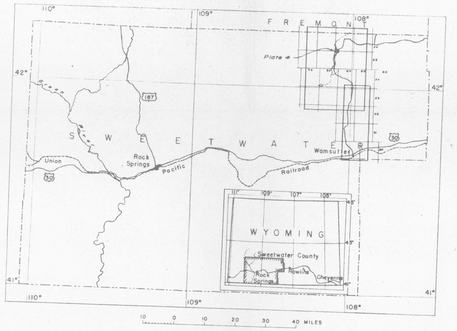
U = U. S. Geological Survey assay values, 1950

PITS AND TRENCHES DATA

Marker	Description
1	Brownish-yellow pellets in green silty clay
2	Brownish-yellow pellets and flakes in gray-green clay where intermediate medium zone is green or display sand.
3	Silt (Tertiary Gravel?)
4	Brownish-yellow pellets and grains in gray-green plastic silty shale
5	White to brown gravel (Tertiary Gravel?)
6	Gravel (Tertiary Gravel?)
7	White sand, brown display sand and gravel (Tertiary Gravel?)
8	Brownish-yellow pellets in moist gray-green plastic shale, including intermediate medium zone in white sand
9	Brownish-yellow pellets in green sandy silt, below sandy brownish-green band of Tertiary Gravel?
10	White to brown display sand and silt(?)
11	Brownish-yellow gravel (Tertiary Gravel?)
12	Brown (Tertiary Gravel?)
13	Brownish-yellow pellets with white efflorescent salt in gray clay
14	Brownish-yellow pellets in gray-green clay and sandy silt. (Pit overlap on adjacent)
15	Mixture of white-yellow fractured quartz and fine-brown gravel (Tertiary Gravel?)
16	Brownish-yellow to green silt on floor (Tertiary Silt)
17	White to buff sand gravel (Tertiary Gravel?)
18	Brownish-yellow pellets in gray-green sandy silty plastic shale with white efflorescent salt (Tertiary Gravel?)
19	Brownish-yellow pellets in green display silt where intermediate medium zone is white efflorescent salt
20	Brownish-yellow flakes in gray-green plastic shale where intermediate medium zone is white sandy gravel (Tertiary Gravel?)
21	Gray-green clay where orange-stained silty sandy to coarse-display sand
22	Brownish-yellow pellets in green silty sand, including intermediate medium zone in white sand (Tertiary Gravel?)
23	Brownish-yellow pellets in green silty sand, including intermediate medium zone in white sand and white clay (Tertiary Gravel?)
24	Green display sand (Tertiary Gravel?) wear gray-green glauconitic clay
25	Brownish-yellow pellets in gray-green silty clay, a zone where brown-yellow pellets in green silty clay (Tertiary Gravel?) 25 feet below ground level contains unidentified
26	Gray-green sand and display sand (Tertiary Gravel?)
27	Brown-tan sand, gravel (Tertiary Gravel?)
28	Brownish-yellow pellets in gray-green clay, silty, where intermediate medium zone is white sand
29	Brownish-yellow pellets in gray-green clay where intermediate medium zone is white sand
30	Fine silt and gravel (Tertiary Gravel?)
31	Yellow silt, a brownish-yellow brown sand (Tertiary Gravel?)

LEGEND

Symbol	Description
Outcrop A	(Table a to E) - Red bed
Outcrop B	(Table a to E) - Red bed
Outcrop C	(Table a - a) Brownish-yellow brown sand
	(Table b - a) Brownish-yellow brown silty sand
Outcrop D	Brown clay; may contain some Green River shale
(a)	Platy brown shale, Green River shale
(b)	Green sand
(c)	Green clay, with pellets. Flakes of schroeckingerite in an intermediate medium zone in white sand. Brownish-yellow medium zone in white sand
(d)	Brownish-yellow to greenish clay
(e)	Gray sand (unconsolidated)
(f)	Brown, dissolution of marble sand, clay
(g)	Brownish-yellow pellets in greenish-gray plastic shale a zone where efflorescent salt
(h)	Brownish-yellow pellets in green clay



Index Map

EXPLANATION

Quaternary — Recent

Qal — Alluvium

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

Qt — Terrace deposit

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.

Colluvium

Slope wash from overlying units.

Quaternary — Pleistocene

Qtz — Terrace deposit

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 60 feet above Recent alluvium.

Tertiary — Eocene

Eocene sediments undifferentiated

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 1."

Tgr — Green River formation

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

Tertiary

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.

Ore bed projected

Ore not exposed, schroeckingerite observed in dump.

Gradational contact

Contact projected

Strike and dip of bed

Fault, showing dip

Probable fault

Approximate limit of fault zone

Vegetation boundary

Trench "M" and dump

Prospect pit no. 3 and dump

Bulldozer cut no. 11 and dump

Perennial stream

Intermittent stream

Contour lines

Depression contour

Pond

Auger hole no. 37

Outcrop(too small to show contacts)

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

Marsh

Secondary road and bridge

Fence

Building

SUPPLEMENTAL EXPLANATION FOR SAMPLING, PRELIMINARY AUGER-TESTING AND PROPOSED EXPLORATION

WE-1935(0.001)0.5F

Sample taken by Minerals Engineering Company; analyzed by Brown Engineering Company of Grand Junction, Colorado; percent uranium shown in parentheses, followed by the thickness in feet

TW-1910(0.04)0.5F

Sample taken by C.G.Towle, Jr, U.S. Atomic Energy Commission, and D.G.Wyant; analyzed by the U.S.Geological Survey; percent uranium shown in parentheses, followed by the thickness in feet

WNS-W1-1910(8 ppm)

Water sample taken by W.N.Sharp; uranium content, in parts per million, shown in parentheses

SW-WS-1941(0.44 ppm)

Water sample taken by D.G.Wyant; uranium content, in parts per million, shown in parentheses

PH(7500 ppm)
SH(370 ppm)

Plant (P), or soil (S) sample taken by Helen Cannon; uranium content, in parts per million of the ash, shown in parentheses

⊡ ES-1

Collar of auger hole, drilled in 1950

PAH-B(4000)

Proposed line of auger holes (length of line in feet)

PT-4(1000)

Proposed trench (length in feet)

⊕ PDH-1

Collar of proposed drill hole (See also section B-B').

SUPPLEMENTAL EXPLANATION FOR CROSS-SECTIONS

Platy shale

Clay

Silt

Sand

Lignite bed projected

General dip of beds; lithology unknown

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PLEASE REPLACE IN POCKET
IN BACK OF BOUND VOLUME

PLATE 6.- ASSAY PLAN WITH PROPOSED EXPLORATION, LOST CREEK SCHROECKINGERITE DEPOSIT, SWEETWATER COUNTY, WYOMING

D. G. Wyant and D. M. Sheridan