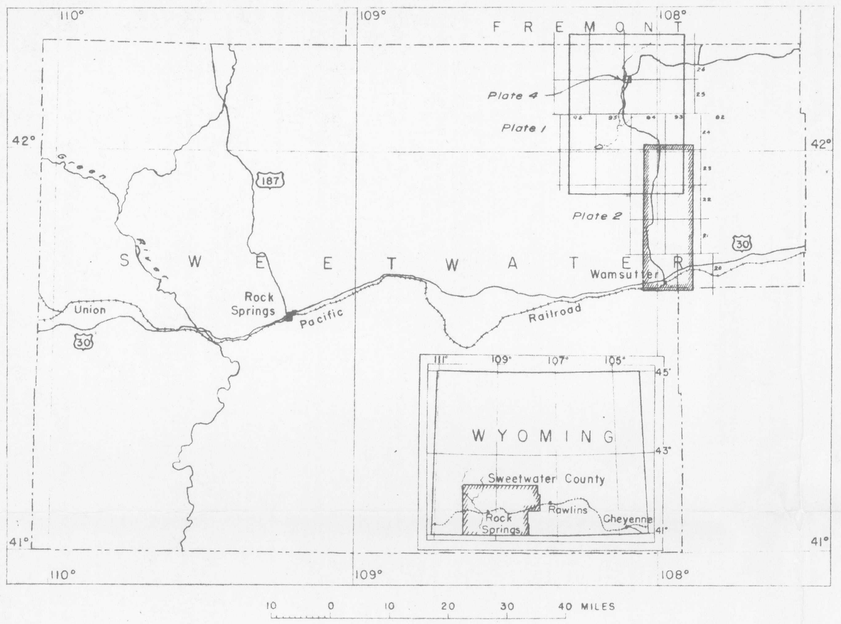
(200)
T67r



Index Map

ANALYSES OF SAMPLES FROM MAP AREA

Locality	Sample No.	Thickness (feet)	Description	Equivalent uranium (percent)	Uranium (percent)	Ash (percent)	Uranium in ash (percent)	Remarks
Lignite and carbonaceous shale (Map Symbol - ●)								
WNS - 1	1	12	Lignite and carbonaceous shale.	0.010	0.007	36.7	0.022	Bed no. 1, composite; grab sample.
DW - 103	297	0.7	Lignite beds.	0.007	0.003	24.1	0.019	Bed no. 1, composite; chip sample.
	298	3.3	Carbonaceous shale.	0.008	0.003	85.7	0.004	Bed no. 1, composite; chip sample.
	299	2.0	Carbonaceous shale, with thin lignite seams.	0.010	0.004	69.1	0.006	Bed no. 1, composite; chip sample.
WNS - 4	5	15-20	Lignite and carbonaceous shale.	0.015	0.003	74.7	0.006	Bed no. 2, composite; chip sample.
	6	—	Lignite only.	0.005	0.003	32.2	0.015	Bed no. 2, grab sample.
5	7	10	Lignite and carbonaceous shale.	0.003	0.003	26.0	0.011	Bed no. 2, chip sample.
11	15	10	Lignite and carbonaceous shale.	0.004	0.003			Bed no. 2 ?, chip sample.
13	18	6	Lignite.	0.002	0.002	9.1	0.015	Bed no. 3, chip sample.
Clinker and ash (Map Symbol - ▲)								
WNS - 1	12	—	Clinker, ash, baked clay.	0.014	0.005			Bed no. 1, grab sample.
11	16	3	Clinker.	0.007	0.003			Bed no. 1 or 2, composite of 10 feet.
16	21	—	Clinker.	0.007	0.003			Bed no. 1, grab sample.
	22	3	Ash.	0.013	0.006			Bed no. 1, chip sample.
14	19	3	Clinker and ash.	0.012	0.005			Bed no. 3, chip sample.
Clay (Map Symbol - ●)								
WNS - 3	4	—	Lake shore mud.	0.005	0.002			Chain Lake, grab sample.
6	8	—	Clay, silt.	0.008	0.001			Dry lake bed, grab sample.
15	20	—	Clay.	0.003	0.002			Dry lake bed, grab sample.

Water (Map Symbol - M)

				U (ppm)	Total solids (ppm)	Cl (ppm)	SO_4 (ppm)	HCO_3 (ppm)	CO_3 (ppm)	
WNS - 3	3	—	Lake water.	0.03	8290	1960	1956	2147	242	Muddy.
	7	9	Reservoir water.	0.01	173	68	28	102	0	Stock dam reservoir over lignite bed no. 1.

EXPLANATION

Qpl — Pleistocene lake deposit (Includes delta and alluvial fan deposits.)

Twg — Eocene Wasatch and Green River formations undifferentiated: (Sandstone, shale, and sandy shale with lignite and carbonaceous shale; in part overlain by Pleistocene and Recent lake sediments, alluvial, colluvial, and eolian deposits.)

Bed No. 1, Bed No. 2, Bed No. 3 — Radioactive lignite and carbonaceous shale members of the Eocene Wasatch formation (Includes ash and clinker: thickness shown where known.)

gr ss, etc — Abbreviations used to describe rock types: green(gn), gray(gr), black(bl), sandstone(ss), shale(sh), sandy shale(ssh), platy(ply).

WNS-1(S-1) 0.010 — Type of material sampled, locality number, (sample number), percent equivalent uranium

Types of material sampled are shown thus:

- ● Lignite and carbonaceous shale
- ▲ Clinker and ash
- C Clay
- M Water

(More complete sample data are given in marginal table.)

R 0.012 — Approximate percent equivalent uranium (Estimated from field and laboratory determinations.)

Columnar Section 1 — Location of measured section shown on plate 3 and tables 1 to 10.

Contact (Dashed where approximately located)

Inferred contact (Photo-interpretation)

35° — Fault, showing dip

Probable fault (Photo-interpretation)

Probable anticline, showing crestline and plunge (Photo-interpretation)

15° — Strike and dip of beds

Strike and dip of beds (Photo-interpretation)

Lake

Dry lake bed or playa

Intermittent stream

Pleistocene (?) stream bed (Photo-interpretation)

Stock dam

Paved highway

Graded road

Track or trail

Railroad

"Shot" hole for seismic survey

FLIGHT STRIP — LINE OF FLIGHT — Area over which equipment for detecting radioactivity was flown.

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Uncontrolled planimetric base compiled by Virginia Byers

PLEASE REPLACE IN POCKET IN BACK OF BOUND VOLUME

Plate 2.-GEOLOGY ALONG LINE OF FLIGHT
SWEETWATER COUNTY, WYOMING

Approximate Scale
0 2 3 Miles

Field geology by William N. Sharp
Photo-interpretation by Donald G. Wyant
1949-50