16°13′
TRUE NORTH
MAGNETIC NORTH
APPROXIMATE MEAN DECLINATION 1950

INDEX MAP

FREMONT
SWEETWATER
WAMSUTTER
ROCK SPRINGS
GREEN RIVER
UNION PACIFIC
US 30
US 187
WYOMING
SWEETWATER COUNTY
Rock Springs
Rawlins
Cheyenne
PLATE 16
110° 109° 108° 42° 41°
10 0 40 Miles

EXPLANATION

Pleistocene and Recent — QUATERNARY

Qre — Eolian sand

Qpl — Lake deposit

Qpd — Former delta and (or) alluvial fan

Qpt — Stream-terrace deposits
Includes Recent alluvium and terrace sand, silt, clay, and gravel of several ages

Oligocene (?) — TERTIARY

Toc — Chadron formation
As used by Nace, 1939

Eocene — TERTIARY

Tgs / Tgr — Green River formation
Lacustrine shale and interbedded sandstone, Tgs; lacustrine gray to brown papery or platy shale and interbedded algal limestone, Tgr

Teu — Formations of Eocene age undifferentiated
Includes facies of the Wasatch, Green River, and Bridger formations, and the Continental Peak formation of Nace (1939). Conspicuous beds of different lithology are shown locally

Twg — Wasatch and Green River formations undifferentiated
In part overlain by Pleistocene and Recent alluvial, colluvial, and eolian deposits. Conspicuous beds of different lithology are shown locally

Tl 10 ft — Radioactive-lignite and carbonaceous-shale beds of the Wasatch formation
Includes ash and clinker; thickness shown where known

Contact
Dashed where approximately located

Inferred contact
Photo-interpretation

U / D 65–90 — Fault
Showing dip; U, upthrown side; D, downthrown side

? — ? — Probable fault
Photo-interpretation

Probable syncline
Showing trace of axial plane, photo-interpretation

10 — Strike and dip of beds

Strike and dip of beds
Photo-interpretation

Dry-lake bed or playa

Oil or gas well

Shothole for seismic survey

DW-102 (S:294) 0.004 — Type of material sampled
Locality number, (sample number), percent equivalent uranium

TYPES OF MATERIAL SAMPLED

Lignite and carbonaceous shale

Clinker and ash

Water

Claystone and other materials

R 0.001 — Approximate percent equivalent uranium
Estimated from field and laboratory determinations

× F-8 / × JBR-1 — Fossiliferous zone
See table 2

Section 8 — Location of measured section shown on plate 18 and described in text

Teu
Buffalo basin
Coal Bank dam
DW-109(S:306) (S:307)
Lost Creek dam
Oil wells (shut in)
Lost Creek
Araphoe Creek
DW-108(S:305)0.005 (gypsum veinlets)
BAIROIL
CROOKS GAP
ATLANTIC CITY via RIB SPRINGS
PIERCE LAKE
CYCLONE RIM
Toc
JBR 5
JBR 4
JBR 3
Section 9
F-13
F-1
F-2
Faults dip 65° to 90°
Cyclone rim fault zone
WNS-23(S:31)0.001 (salt crust)
Soda Lake
Chain Bluffs
WNS-20(S:28)0.004 (gypsum, siltstone, claystone and sandstone)
WNS-2(S:21)0.006
DW-85 (S:264) 0.44
Osborne Draw
WNS-8(S:10) 0.005
WNS-10(S:14) (22(S:30)
WNS-9(S:11) 0.005 (S:13)
Hadsell shearing pens
Qpt
Tgs
Tgr
Twg
Qpd
Qpl
Qre
Former stream channel (now obscured by stream and wind deposits)
California-Wyoming Development Co oil well
WNS-17(S:23)0.011 (S:24)0.007 (S:25)
F-12
Section 8
Hawk Point
Eagles Nest
Section 7
JBR 2
F-11
WNS-12(S:17)0.003 (sandy claystone)
Pleistocene lake
Siltstone
R 0.006
Qae
DW-102(S:296)
DW-102(S:294)0.004 (S:295)0.003
Dry Lake
Former shore lines
Sandstone
Shale
Section 6
F-10
Pleistocene Lower Chain lake
Green shale
Crooked Neck Pete Larsen Well
R 0.005
Chain lake
Pleistocene Upper Chain lake
WNS-(S:3) WNS-(S:4)0.005
Upper Chain lake
FORMER SPILLWAY
Water well with pump
Lower Chain lake
Green, red, gray to black shale
R 0.008
R 0.009
Buttes
F-8
Section 4
Wave-cut terrace
Hell Junction
No name well and house
Section 3
WNS-13(S:18)0.002
WNS-14(S:19)0.012
DAM 2
Bed 3
Bed 2
Bed 1
R 0.007
R 0.010
Section 1
Sandy shale and sandstone
High Point
9 ft
10 ft
R 0.012
Section 2
Sourdough Creek
DAM 1
WNS-7(S:9)
Sourdough Butte
9–12 ft
JBR 1
WNS-1(S:1)0.010
WNS-11(S:12)0.014
R 0.014
Old channel
Section 5
F-9
Battle Springs
2± Wells
Former shore line
Pleistocene Lake
Qre
Qpd
Twg
Tgr
Tgs
Tl
R 0.006

Uncontrolled planimetric base compiled from aerial photographs by the Topographic Division, U S Geological Survey

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D C M R-2989

Geology by D. G. Wyant and W. N. Sharp, 1949–50

RECONNAISSANCE GEOLOGY OF PART OF THE RED DESERT, GREAT DIVIDE BASIN, SWEETWATER COUNTY, WYOMING

1 0 5 Miles