

GENERALIZED SECTION OF ROCKS
IN DEWEY AREA

UPPER CRETACEOUS	COLORADO GROUP	CARLILE SHALE 200 FT. EXPOSED	SANDY SHALE AND SHALY CONCRE- TIONARY SANDSTONE - 80' SHALY GRAY SANDSTONE - 4'
		GREENHORN LIMESTONE 48 TO 55 FT.	GRAY CLAY SHALE - 110' THIN-BEDDED GRAY LIMESTONE - FOSSILIFEROUS
		GRANEROS SHALE 900 FT.	DARK GRAY SHALE WITH SANDSTONE STRINGERS AND ONE THIN, BROWN FOSSILIFEROUS SANDSTONE LEDGE 100' BELOW TOP - 475'
		FALL RIVER SANDSTONE 65 FT.	DENSE BLACK SHALE WITH RUSTY BENTONITE BEDS AND BERTARIAN CONCRETIONS - 80'
LOWER CRETACEOUS	INTYAN RARA GROUP	LAKOTA SANDSTONE 1350 FT.	GRAY CLAY SHALE, BENTONITIC, WITH THIN SANDSTONE STRINGERS 110' WOODRUP SANDSTONE - 5'
		MORRISON FORMATION 1300 FT.	GRAY SILICEOUS SHALE - MOWRY SHALE - 115' NEWCASTLE SANDSTONE - 6' TO 10'
UPPER JURASSIC	TRIASSIC (?)	SUNDANCE FORMATION 2650 FT.	BLACK CLAY SHALE - SKULL CREEK SHALE - 105'
		SPEARFISH FORMATION 500 FT.	VARIABLE SANDSTONE AND SANDY SHALE DARK SHALE, VARIABLE
PERMIAN (LATE)	PENNSYLVANIAN	MINNEKAHTA LIMESTONE 400 FT.	VARIABLE SANDSTONE, SANDY SHALE AND LIGNITE
		OPECHE FORMATION 1400 FT.	VARIABLE SANDSTONE AND SANDY SHALE DARK SHALE, VARIABLE
LOWER PERMIAN	STAPPA	MINNELUSA FORMATION 900 FT.	VARIABLE SANDSTONE AND SANDY SHALE DARK SHALE, VARIABLE
		PAHASAPA LIMESTONE	VARIABLE SANDSTONE AND SANDY SHALE DARK SHALE, VARIABLE

EXPLANATION

AREAL GEOLOGY



ALLUVIUM.

CARLILE SHALE WITH
CONCRETARY SANDSTONE
MEMBER

GREENHORN LIMESTONE

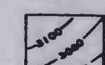
GRANEROS SHALE WITH
WOODRUP SANDSTONE (UPPER)
AND NEWCASTLE SANDSTONE
(LOWER) MEMBERS

INTYAN RARA GROUP

SYMBOLS

- PRODUCTIVE OIL WELL.
- PRODUCTIVE WATER WELL.
- ◆ ABANDONED WELL - SHOW OF OIL.
- ◇ ABANDONED WELL - DRY.
- BRILLING WELL.
- FAULT WITH INDICATION OF RELATIVE
DISPLACEMENT U-UP - D-DOWN
- † STATE LINE MARKER FOUND.
- ◆ SECTION CORNER FOUND.

STRUCTURE

CONTOURS - BROKEN WHERE
DOUBTFUL - INDICATING THE
CONFIGURATION AND ELEVATION
ABOVE MEAN SEA LEVEL OF THE
TOP OF THE FALL RIVER SANDSTONE.
INTERVAL - 50 AND 100 FEET.CONTOUR INDICATING STRUCTURAL
DEPRESSION.

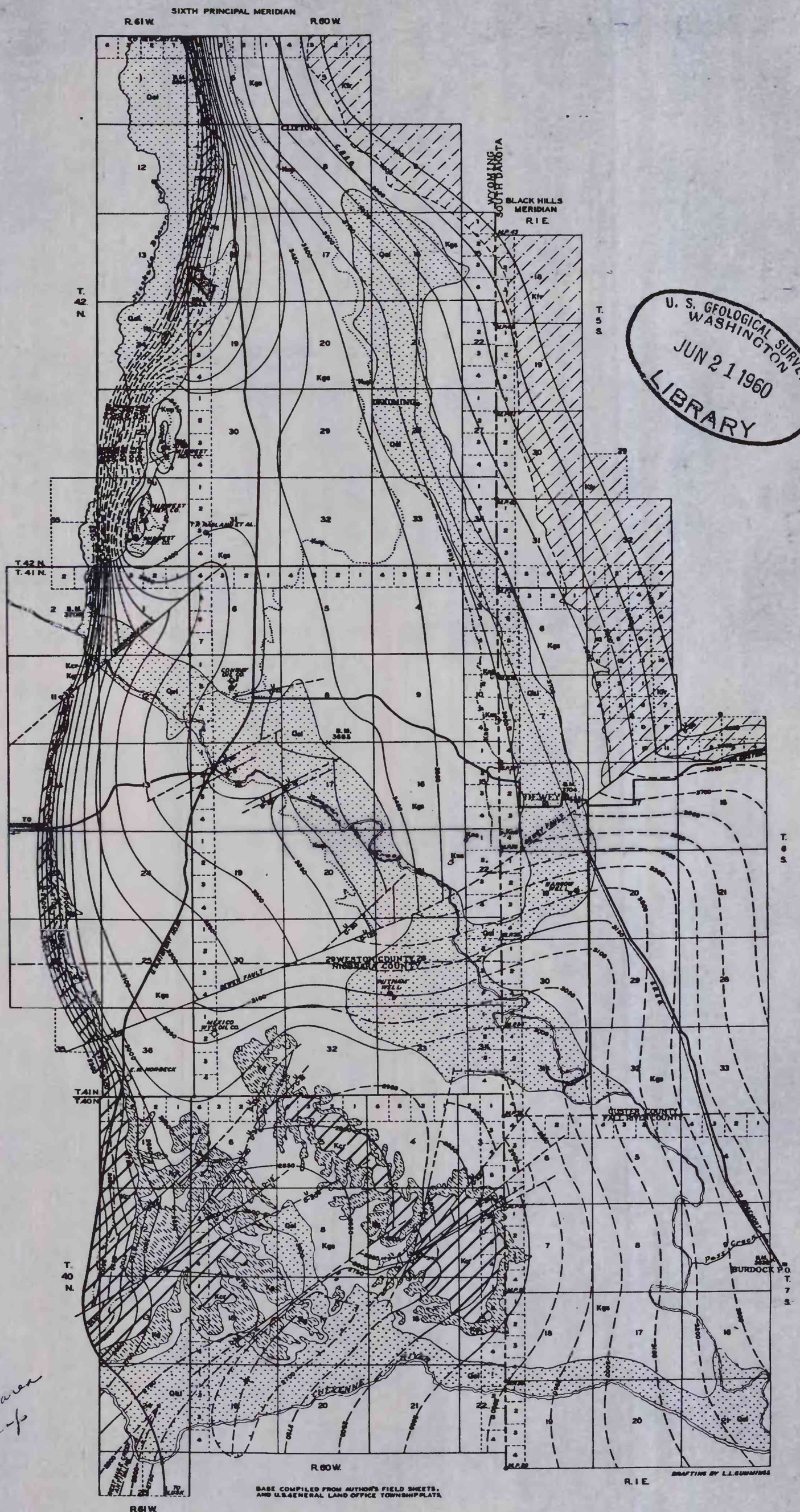
SECTION GEOLOGY OF ROCKS

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYRECONNAISSANCE MAP
OF
THE DEWEY AREAWESTON AND NIOBRARA COUNTIES, WYOMING, AND
CUSTER AND FALL RIVER COUNTIES, SOUTH DAKOTA.BY
J. D. NORTHROPSURVEYED AUGUST, 1936 AND JULY 1936
WELL DATA REVISED THROUGH JANUARY 1939SCALE
0 1 2 3 4 5 6 7 8 9 10 MILES

1:95,000.

Cover more area
than 1936 map

Wyoming (Dewey area). Geol. 1:96,000. 1939.

BASE COMPILED FROM AUTHOR'S FIELD SHEETS,
AND U.S. GENERAL LAND OFFICE TOWNSHIP PLATS.

DRAFTING BY L.L. GUMMINS