

TYPE SECTION OF ROCKS PENETRATED

VIERSEN-COCHRAN
NO. 3 VOLLMER
NE-NW-NE
1-25N-5W

SUBSURFACE TERMINOLOGY

HERINGTON LS.

KRIDER LS.

WINFIELD LS.

TOWANDA LS.
FT. RILEY LS.
FLORENCE LS.

WREFORD LS.

FUNSTON LS.

COTTONWOOD LS.

NEVA LS.

RED EAGLE LS.

FORAKER LS.

BROWNVILLE LS.

GREYHORSE LS.

ELMONT-READING LS.

WAKARUSA LS.
BURLINGAME LS.
HAPPY HOLLOW LS.
HOWARD LS.

TOPEKA LS.

PAWHUSKA LS.
HOOVER SS. ZN.

OREAD LS.

ENDICOTT SS.

LOVELL LS.
LOVELL SS.

TONKAWA SS.

PERRY GAS SS.

COTTAGE GROVE SS.

DEWEY LS.

HOGSHOOTER LS.

CHECKERBOARD LS.
CLEVELAND SS.

"BIG LIME"

OSWEGO LS.

VERDIGRIS LS.

SKINNER SS. ZN.
PINK LS.
RED FORK SS. ZN.

INOLA LS.

MISSISSIPPI CHAT

MISSISSIPPI LS.

WOODFORD SH.

SIMPSON DOLOMITE
FIRST WILCOX SS.
SECOND WILCOX SS.

ARBUCKLE LS.

0 100 200
SCALE

PLATE I

SYSTEM

PERMIAN

PENNSYLVANIAN

MISSISSIPPIAN

ORDOVICIAN

SERIES

WOLFCAMPIAN

VIRGILIAN

MISSOURIAN

DES MOINESIAN

OSACIAN

KIND

SIMPSON

ARBUCKLE

GROUP

CHASE

COUNCIL GROVE

ADMIRE

WABAUNSEE

SHAWNEE

DOUGLAS

OCHELATA

SKIATOOK

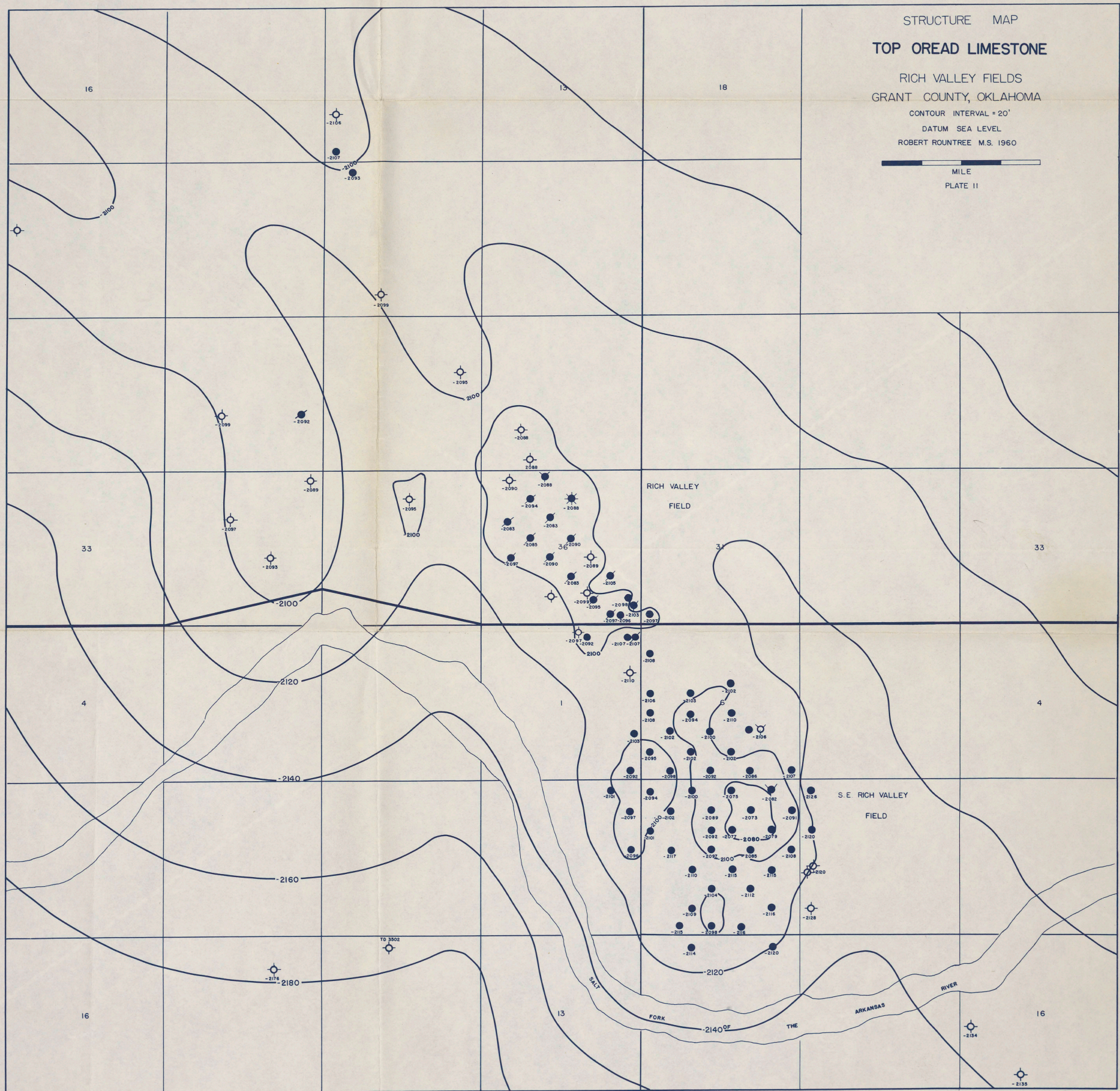
MARMATON

CHEROKEE

STRUCTURE MAP
TOP OREAD LIMESTONE

RICH VALLEY FIELDS
GRANT COUNTY, OKLAHOMA
CONTOUR INTERVAL = 20'
DATUM SEA LEVEL
ROBERT ROUNTREE M.S. 1960

1/4 MILE
PLATE II



R5W

R4W

378.76
OKO
R16245
cop. 3
plate II

378.76
OKO
R76455
cop. 8
plate III

STRUCTURE MAP

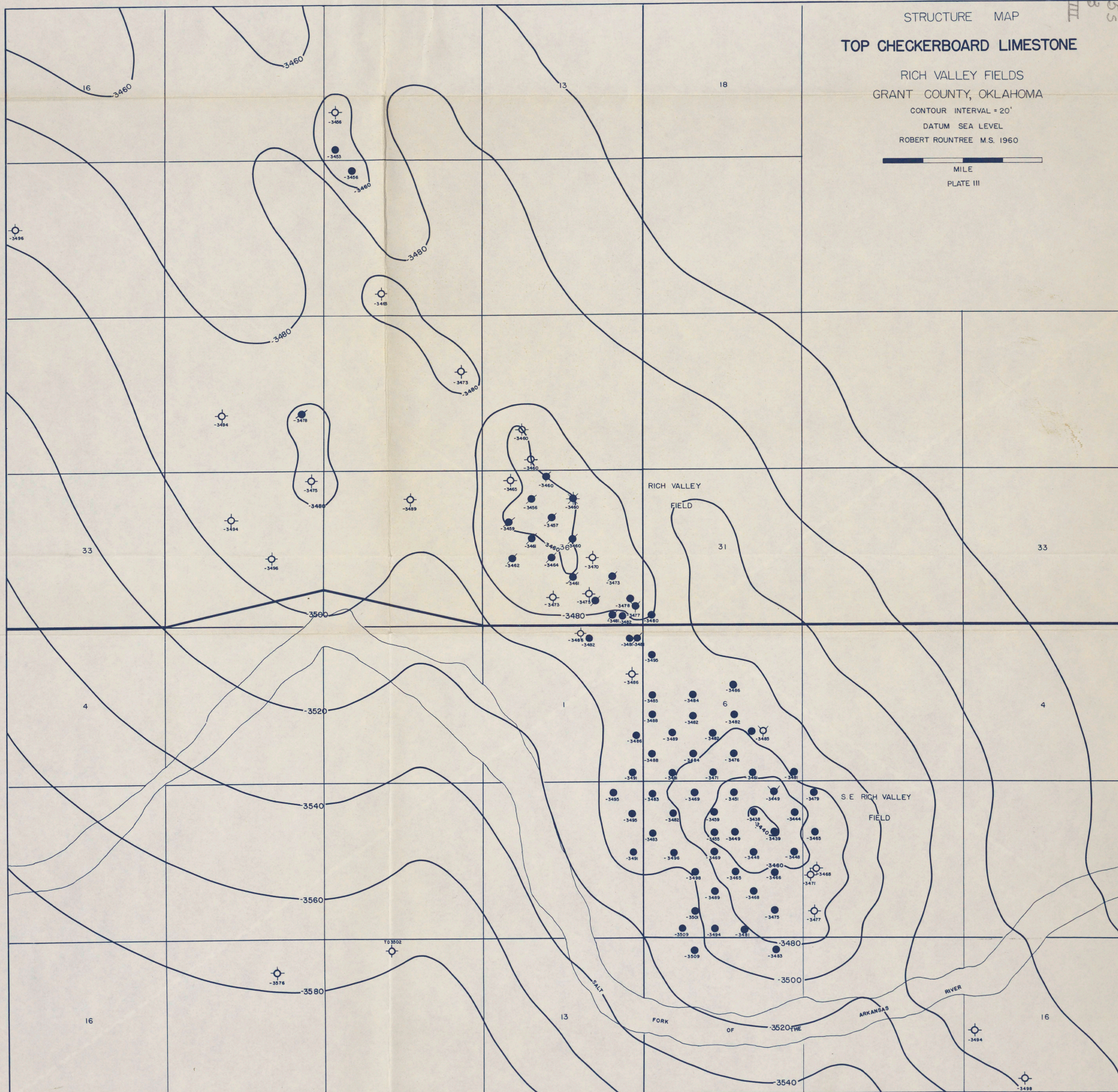
TOP CHECKERBOARD LIMESTONE

RICH VALLEY FIELDS
GRANT COUNTY, OKLAHOMA

CONTOUR INTERVAL = 20'

DATUM SEA LEVEL

ROBERT ROUNTREE M.S. 1960



R5W

R4W

T 25 N

T 25 N

STRUCTURE MAP

TOP MISSISSIPPIAN

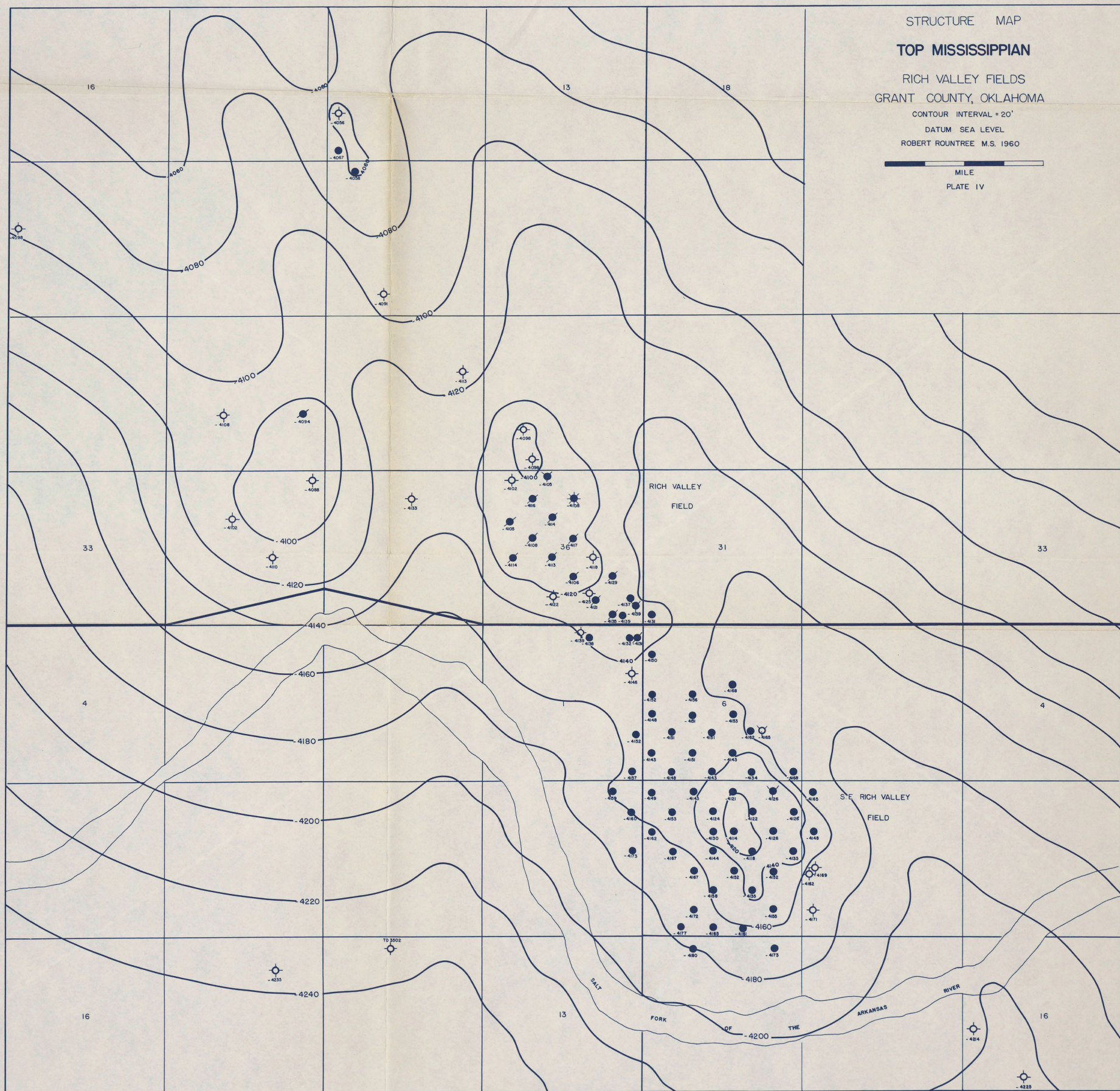
RICH VALLEY FIELDS
GRANT COUNTY, OKLAHOMA

CONTOUR INTERVAL = 20'

DATUM SEA LEVEL

ROBERT ROUNTREE M.S. 1960

1/4 MILE
PLATE IV



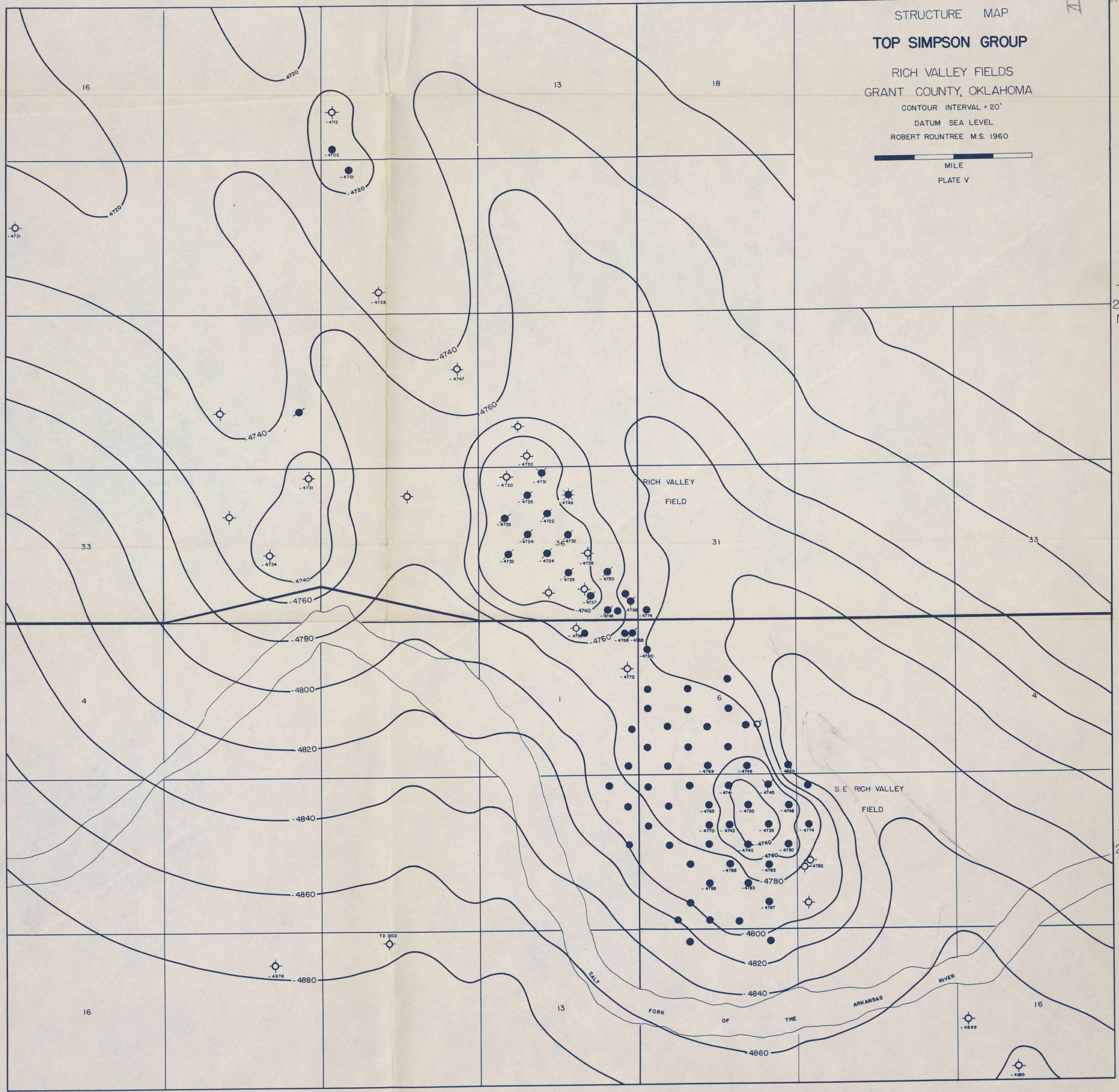
R5W

R4W

378.76
OKO
R7625
cop. 3
plate IV

378.7L
R71605
O.P. 3
plate V

STRUCTURE MAP
TOP SIMPSON GROUP
RICH VALLEY FIELDS
GRANT COUNTY, OKLAHOMA
CONTOUR INTERVAL = 20'
DATUM SEA LEVEL
ROBERT ROUNTREE M.S. 1960



R5W

R4W

T 26 N

T 25 N

ISOPACH MAP OF EFFECTIVE PRODUCING ZONE

MISSISSIPPI CHAT

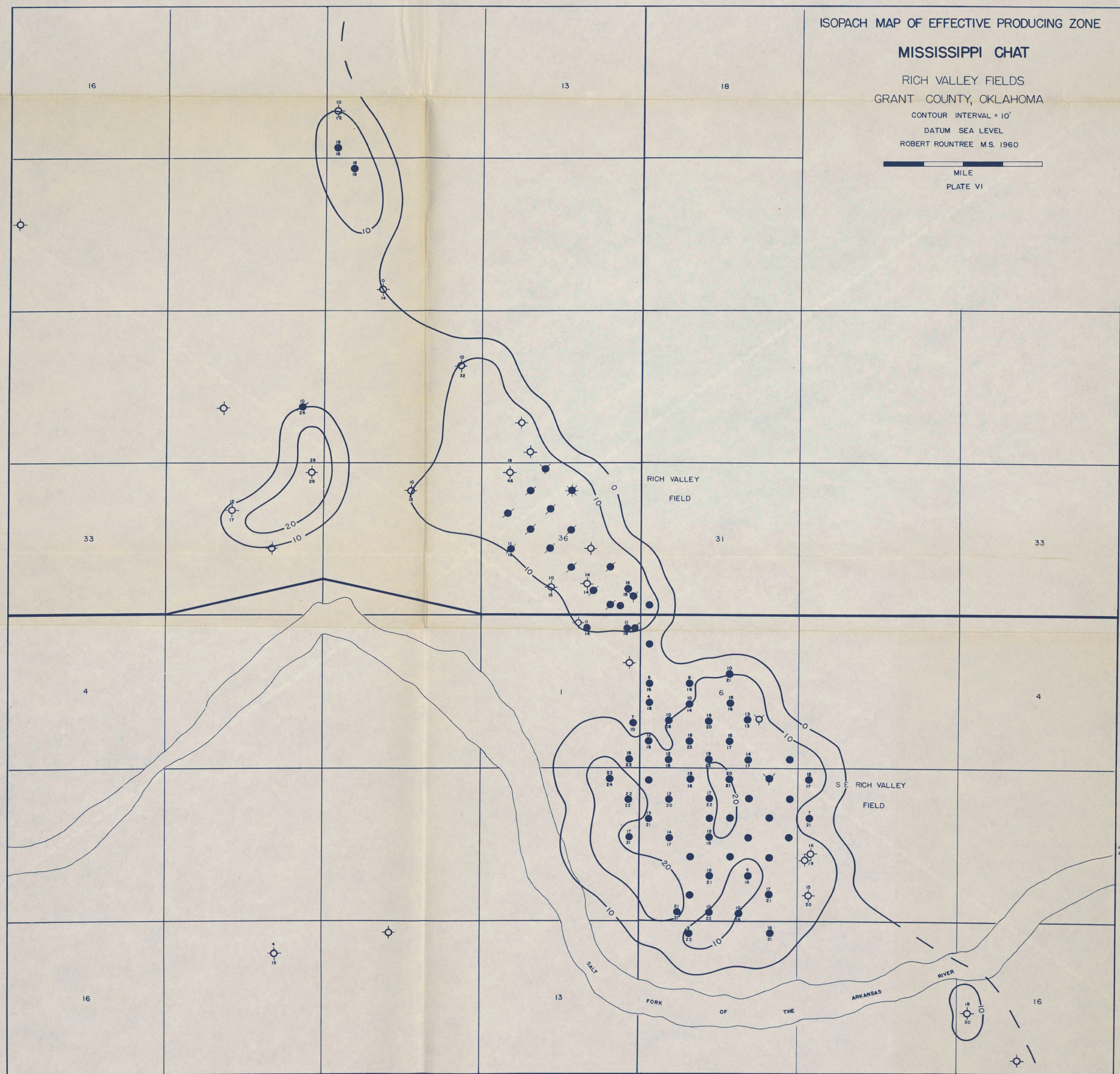
RICH VALLEY FIELDS
GRANT COUNTY, OKLAHOMA

CONTOUR INTERVAL = 10'

DATUM SEA LEVEL

ROBERT ROUNTREE M.S. 1960

1 MILE
PLATE VI



T 26 N

T 25 N

R5W

R4W

378.76
OKO
K10055
Cap. 3
plate VII

378.76
OKO
R716255
cop. 3
plate VII

ISOPACH MAP OF EFFECTIVE PRODUCING ZONE

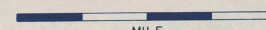
MISSISSIPPI LIMESTONE

RICH VALLEY FIELDS
GRANT COUNTY, OKLAHOMA

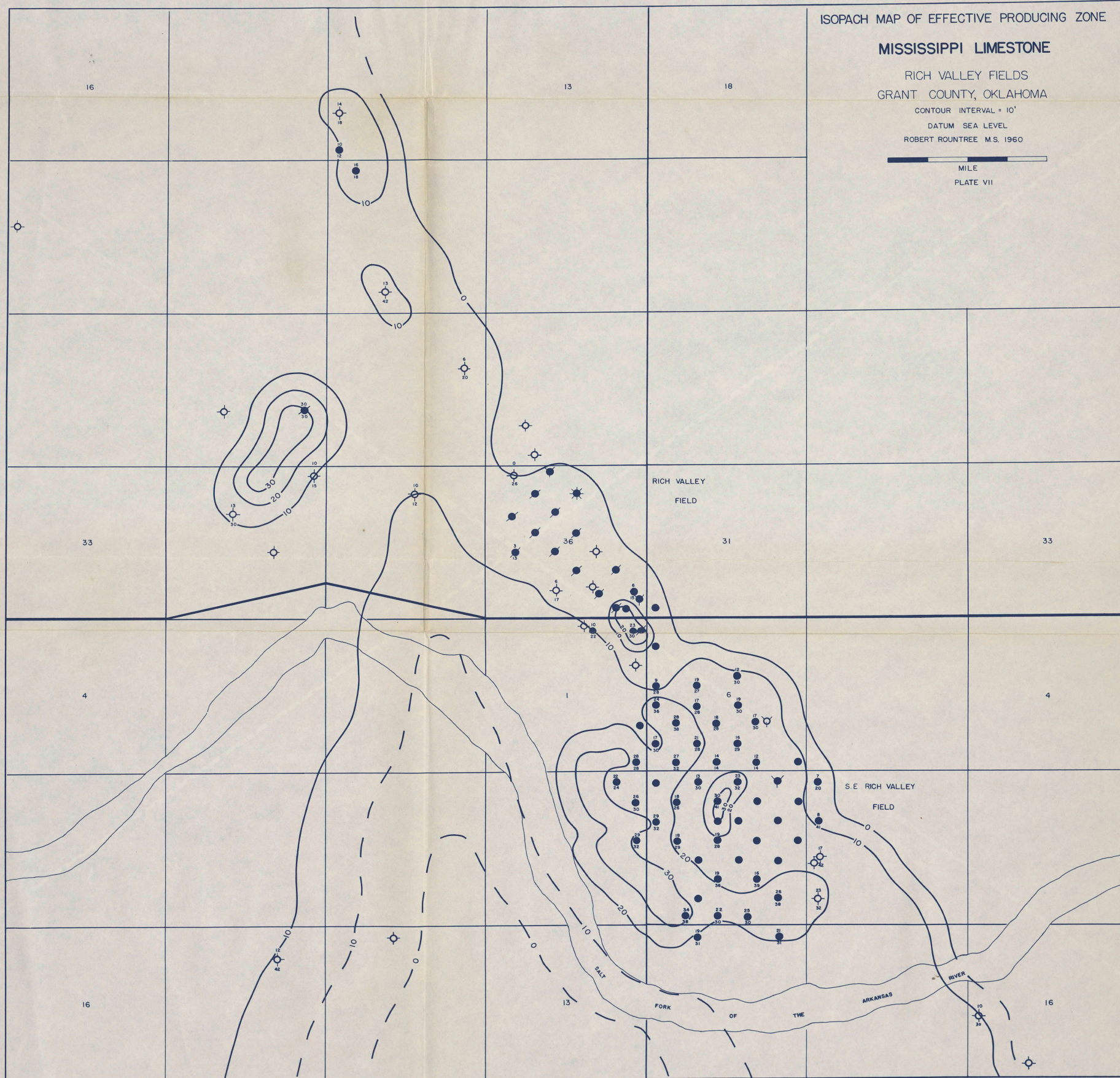
CONTOUR INTERVAL = 10'

DATUM SEA LEVEL

ROBERT ROUNTREE M.S. 1960



MILE
PLATE VII



R5W

R4W

T 26 N

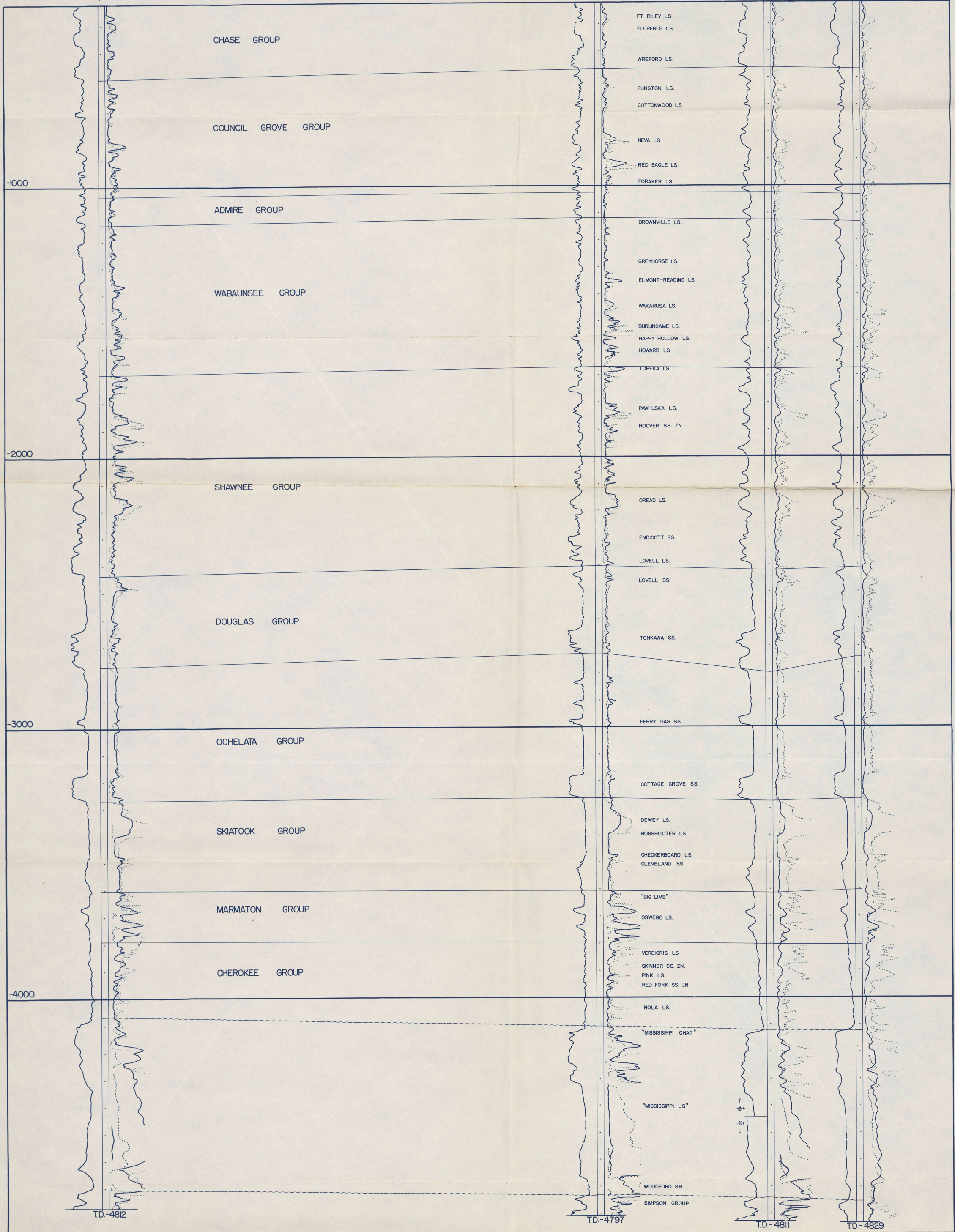
T 25 N

1
MID - CONTINENT
NO. 1 BOWLING
NE-NW-SE
34-26N-5W
ELEV. 1040

2
O.A. SHAW
NO. 1 TEBOW
NE-NW-SW
36-26N-5W
ELEV. 1030

3
VIER & COCH
NO. 1 MOORE
NE-SW-SE
36-26N-5W
ELEV. 1025

4
SINCLAIR
NO. 1 RUZEK
SW-SW-SW
31-26N-4W
ELEV. 1023



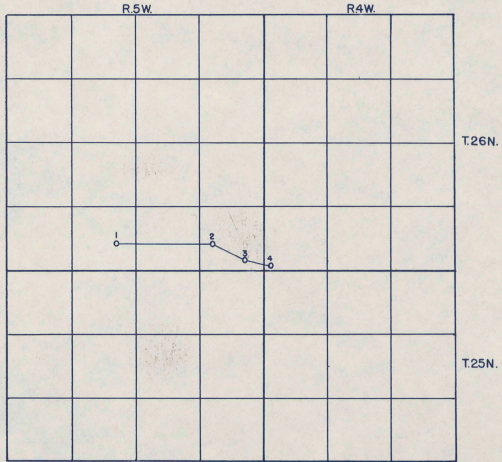
CROSS SECTION A-A'

RICH VALLEY FIELD
GRANT COUNTY, OKLAHOMA

DATUM - SEA LEVEL
OCTOBER 1960
M.S. - O.U.

VERTICAL SCALE 1"=200
HORIZONTAL SCALE 3"=1 M.
ROBERT ROUNTREE

PLATE VIII



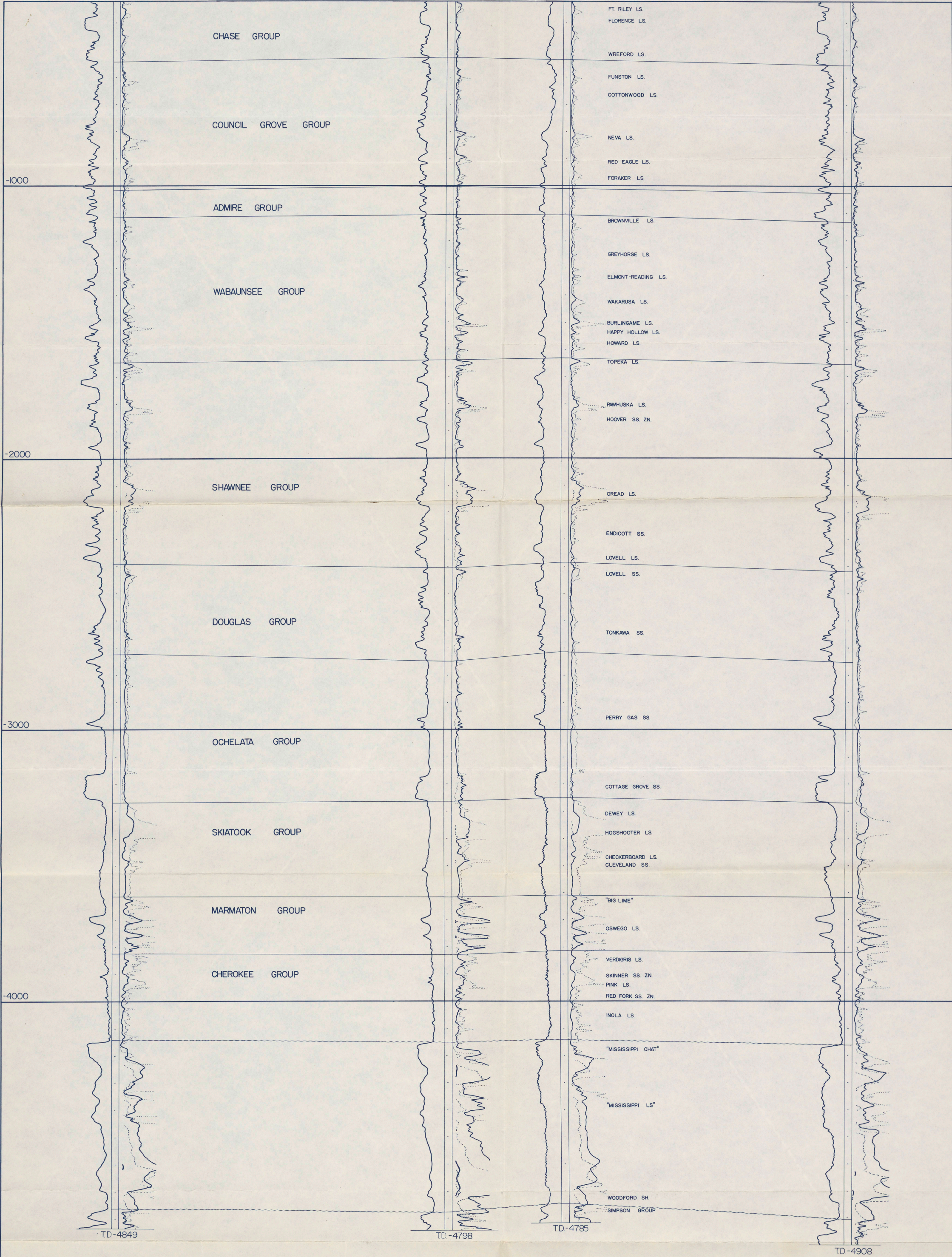
378.76
OKO
R74253
cap 3
plate

1
TRIGG
NO. 1 NORMAN
SE-NW-SW
7-25N-4W
ELEV. 1016

2
SINCLAIR
NO. 3 MULKEY
NW-SW-NE
7-25N-4W
ELEV. 1021

3
SINCLAIR
NO. 2 MULKEY
SE-NW-NE
7-25N-4W
ELEV. 1022

4
CARTER
NO. 3 SHRUBSHALL
SE-SE-SE
6-25N-4W
ELEV. 1023



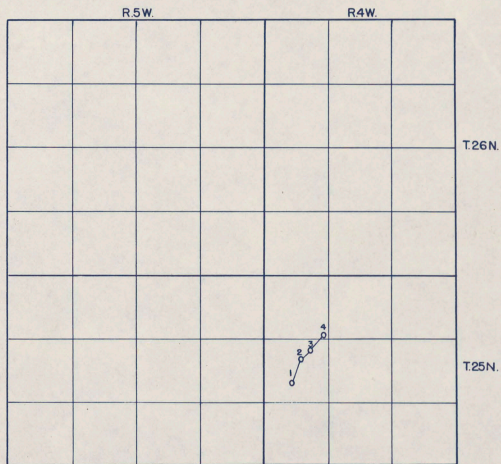
CROSS SECTION B-B'

RICH VALLEY FIELD
GRANT COUNTY, OKLAHOMA

DATUM - SEA LEVEL
OCTOBER 1960
M.S. - O.U.

VERTICAL SCALE 1"=200
HORIZONTAL SCALE 4"=1 M
ROBERT ROUNTREE

PLATE IX



378.76
OKO
R76255
cop. 3
plate IX