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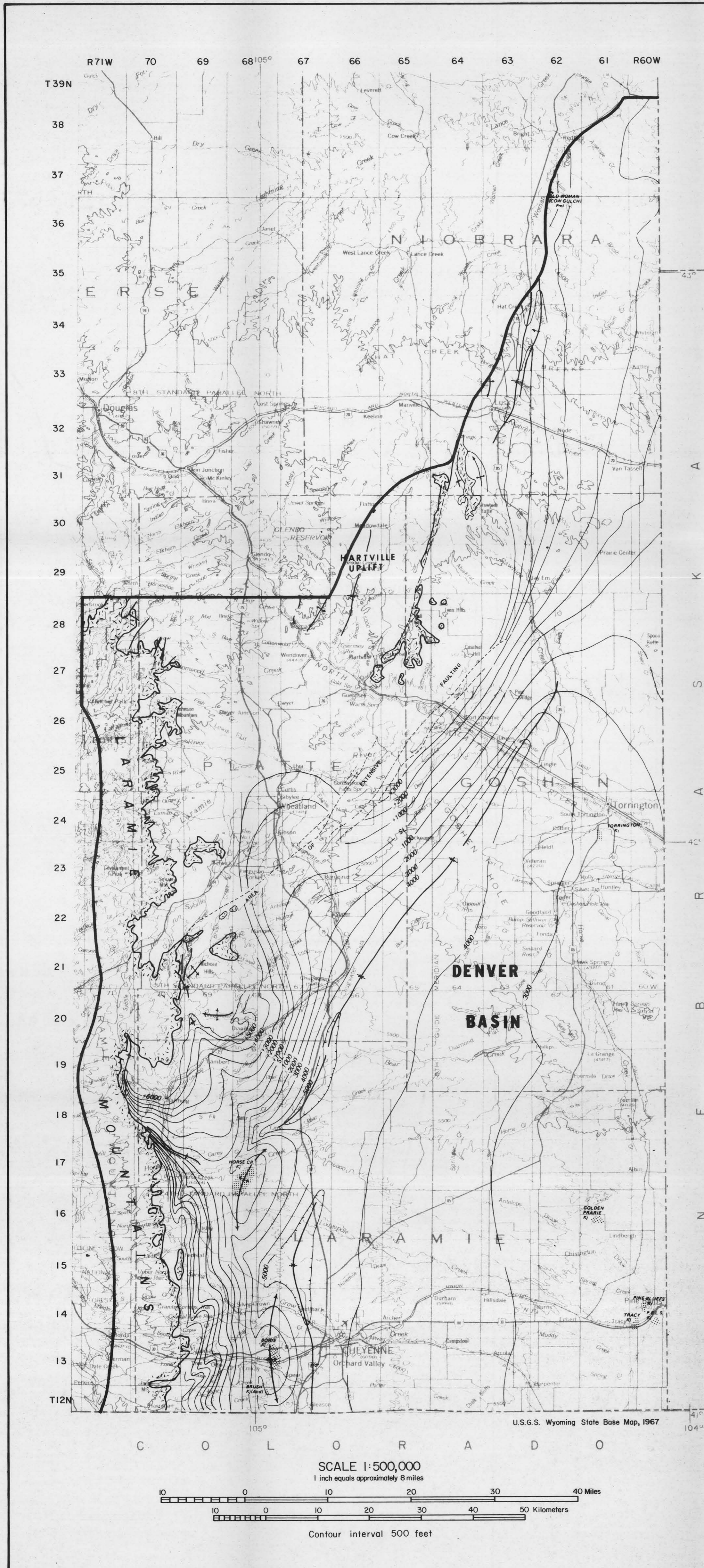
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PLATE I

STRUCTURE CONTOUR MAP
ON TOP OF THE
CLOVERLY FORMATION,
DENVER - JULESBURG BASIN,
WYOMING

Wyoming Water Resources Research Institute
1981



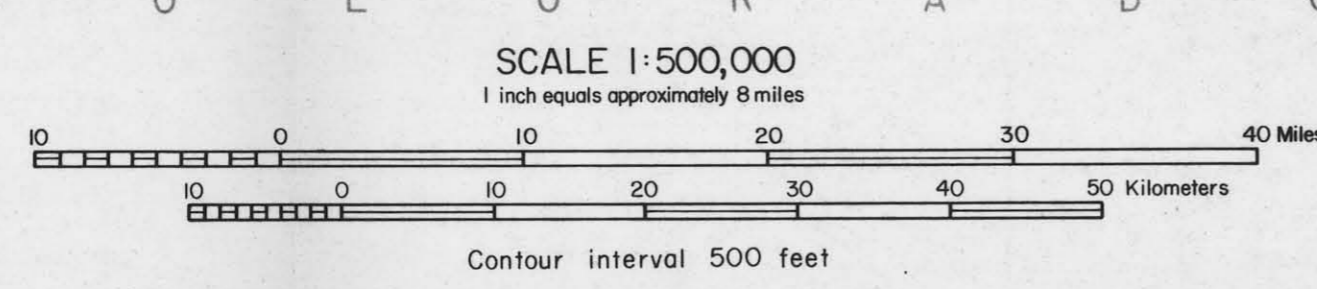
EXPLANATION

- Structure contours drawn on top of the Lower Cretaceous Dakota Formation or equivalent, unless otherwise stated, at 1000 foot intervals.
- Anticlines
- Synclines
- Normal or reverse faults
- Thrust faults
- Oil and or Gas fields
- Surface exposure of pre-Cambrian rocks
- Surface exposure of Tertiary Volcanic rocks
- Surface faults and folds of unknown subsurface extent
- Abandoned Production

FORMATION SYMBOLS

FORMATION	SYMBOLS
Tertiary	Tertiary undivided Tu
	Wind River Twr
	Wasatch Tw
	Fort Union Tfu
	Almy Ta
Cretaceous	Lewis Klc
	Lance Kl
	Mesaverde Kmv
	Parkman Kpk
	Shannon Ksh
	Ash Creek Kac
	Cody Kc
	Steele Ks
	Niobrara Kn
	Frontier Kf
	Mowry Kmr
	Bear River Kbr
	Dakota Kd
	Lakota Kl
	Muddy Km
	"J" Sand Kj
Jurassic	Morrison Jm
	Sundance Jsd
	Nugget Jn
Triassic	Crow Mountain Trcm
	Alcova Tra
	Chugwater Trc
	Dinwoody Trd
	Goose Egg Tpe
	Phosphoria Tph
	Minnetusa Tmi
	Tensleep Tt
	Casper Tc
Permian	Amesden Pa
	Darwin Pd
Mississippian	Madison Group Mm
Devonian	Devonian undivided D
Ordovician	Bighorn Obh
Cambrian	Deadwood Gd

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U.S.G.S. Wyoming State Base Map, 1967

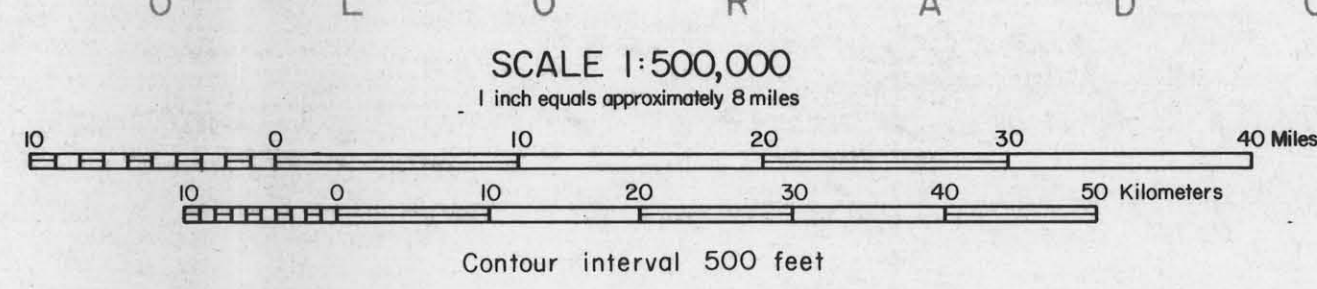
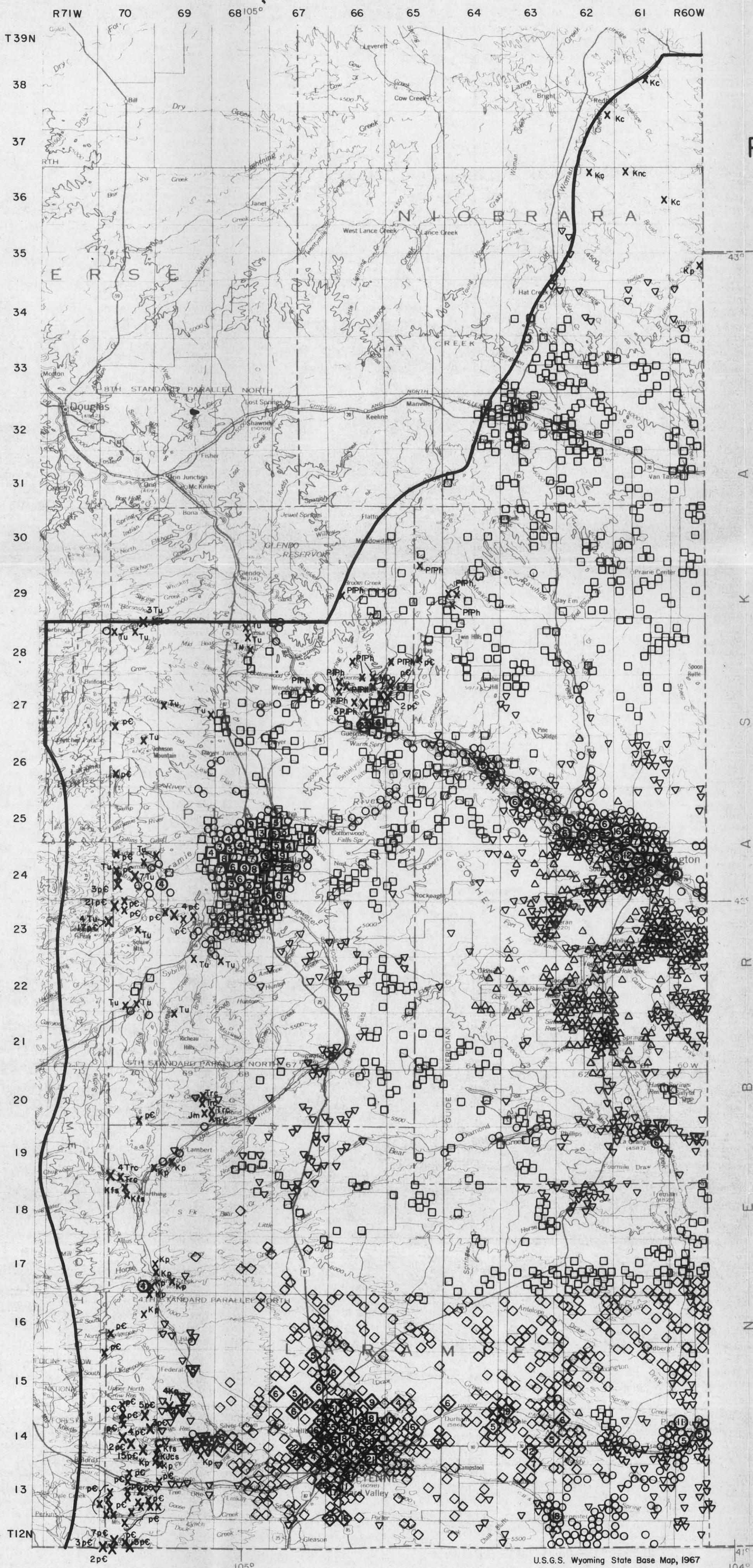
PERMITTED DOMESTIC WELLS
IN THE
DENVER-JULESBURG BASIN,
WYOMING

Wyoming Water Resources Research Institute
1981

EXPLANATION

- Quaternary Aquifer
- ◇ Ogallala Aquifer
- Arikaree Aquifer
- ▽ White River Aquifer
- △ Lance Aquifer
- X_{Tu} Other Aquifers indentified by subscripts as follows:
 - Tu Tertiary Aquifers, undivided
 - Kp Pierre Shale Aquifers
 - Knc Newcastle Aquifer
 - Kc Cloverly Aquifer
 - Trc Chugwater Aquifers
 - PIPh Hartville Aquifer
 - MDg Guernsey Aquifer
 - pc Precambrian Aquifer
- ⊙ Large symbols with numbers show location of a number of wells in a given section.

Source: Wyoming State Engineer's Water Well Permit Files and Wyoming Water Resource Research Institute, February 1980.



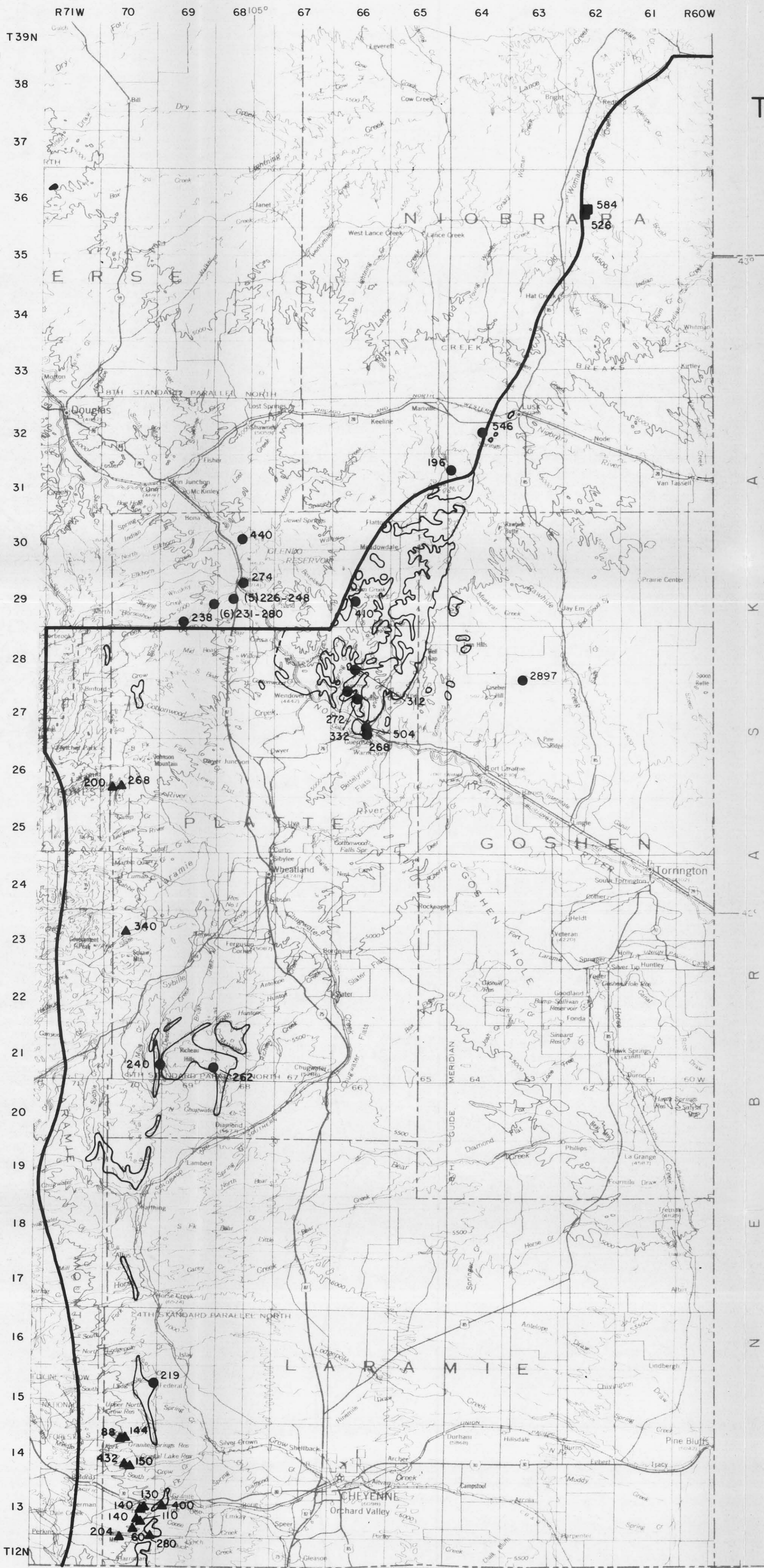
TOTAL DISSOLVED SOLIDS MAP
OF THE
PALEOZOIC AQUIFER SYSTEM
AND PRECAMBRIAN ROCKS,
DENVER-JULESBURG BASIN,
WYOMING

Wyoming Water Resources Research Institute
1981

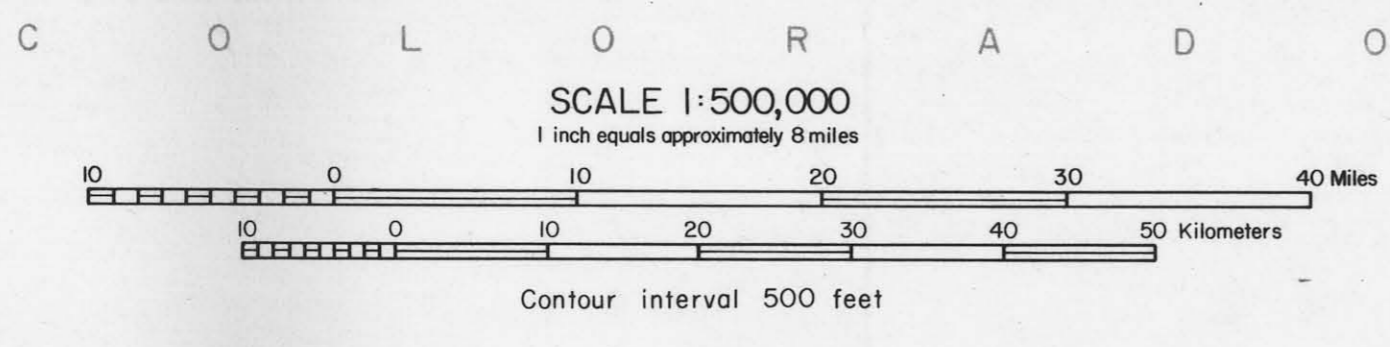
EXPLANATION

- Hartville (Casper) Aquifer
- Madison Aquifer (Guernsey Aquifer equivalent)
- ▲ Precambrian rocks
- 312 Numbers represent total dissolved solids concentration in mg/l
- Outcrop of Paleozoic rocks comprising the Paleozoic Aquifer System

Sources include: Love and others, 1955 and U.S. Geological Survey, 1971.



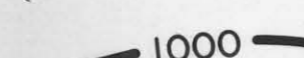





U.S.G.S. Wyoming State Base Map, 1967



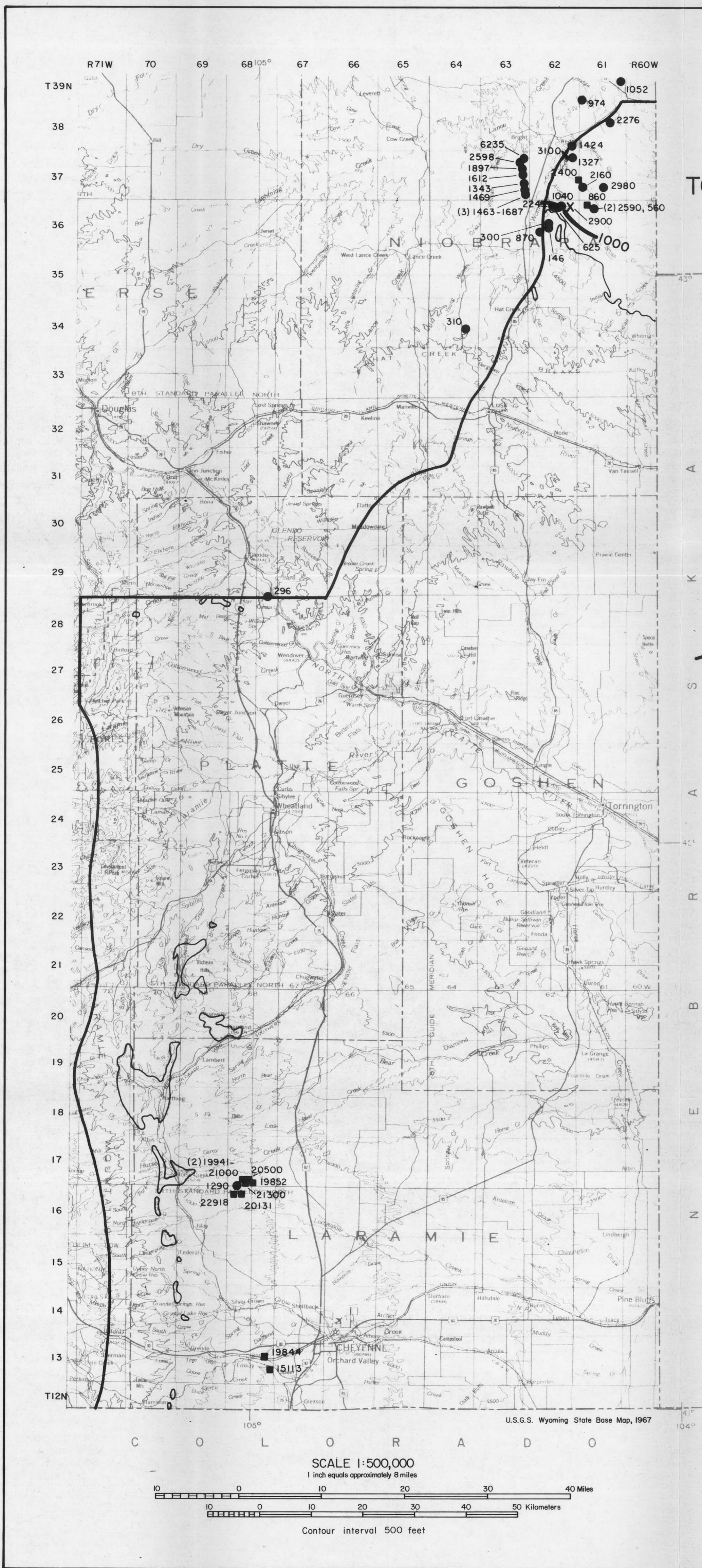
TOTAL DISSOLVED SOLIDS MAP
OF
MESOZOIC AQUIFERS,
DENVER-JULESBURG BASIN,
WYOMING

Wyoming Water Resources Research Institute
1981

EXPLANATION

-  1000 Dissolved solids contour of the Cloverly Aquifer in mg/l; dashed where inferred.
-  Cloverly Aquifer
-  Newcastle Aquifer
-  Frontier Aquifer
-  Numbers represent total dissolved solids concentration in mg/l
-  Outcrop of Mesozoic rocks

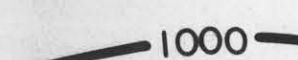



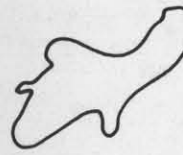
Sources include Love and others, 1955; Crawford and Davis, 1962; U.S. Geological Survey, 1971.



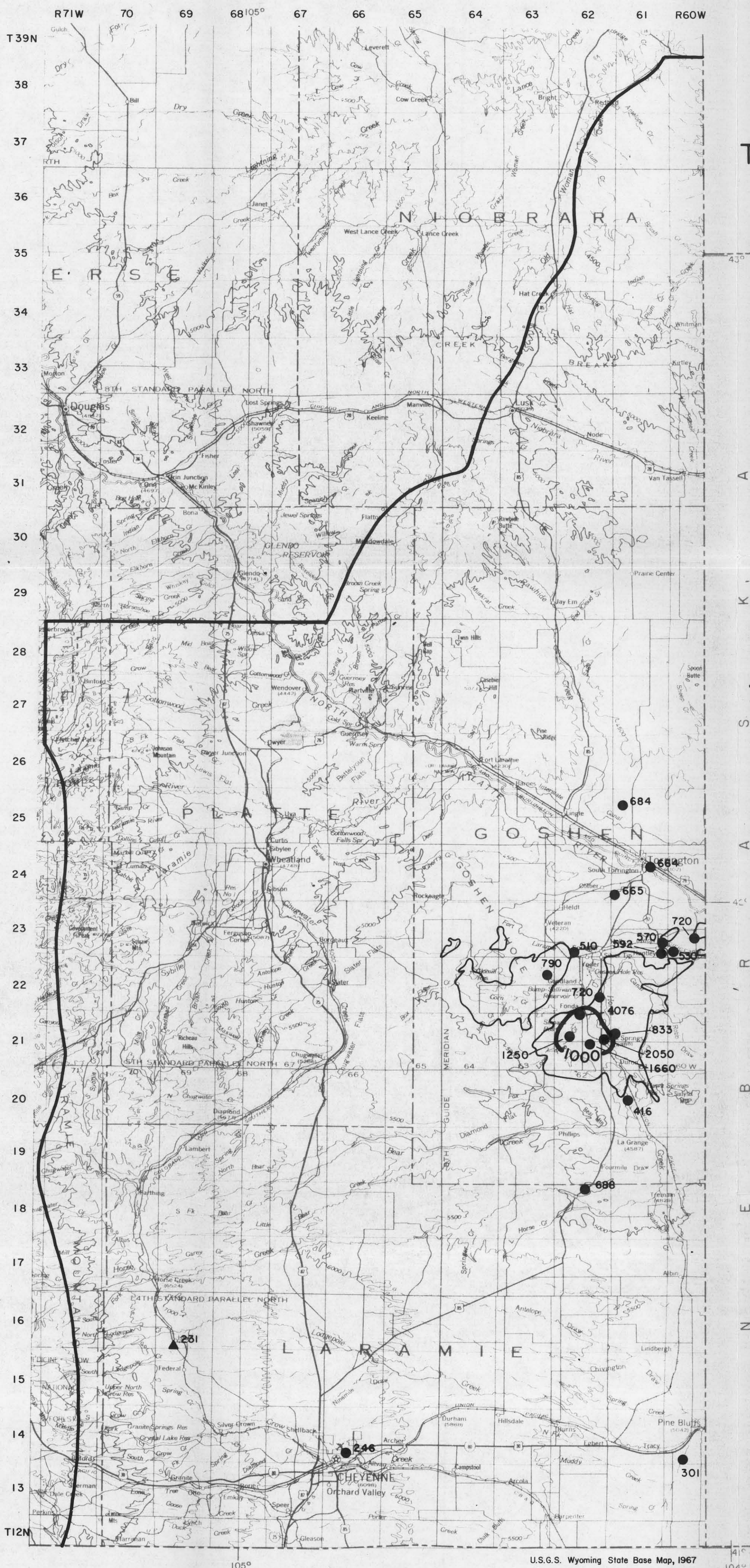
TOTAL DISSOLVED SOLIDS MAP
OF THE
LANCE / FOX HILLS AQUIFER,
DENVER-JULESBURG BASIN,
WYOMING

Wyoming Water Resources Research Institute
1981

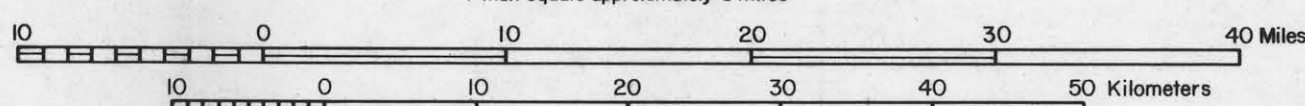
EXPLANATION

-  1000 Dissolved solids contour in mg/l
-  Lance Formation
-  Fox Hills Sandstone
-  Numbers represent total dissolved solids concentration in mg/l
-  Outcrop of Lance Formation

Sources include: Love and others, 1955; U.S. Geological Survey, 1971.



SCALE 1:500,000
1 inch equals approximately 8 miles

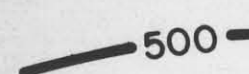








Contour interval 500 feet

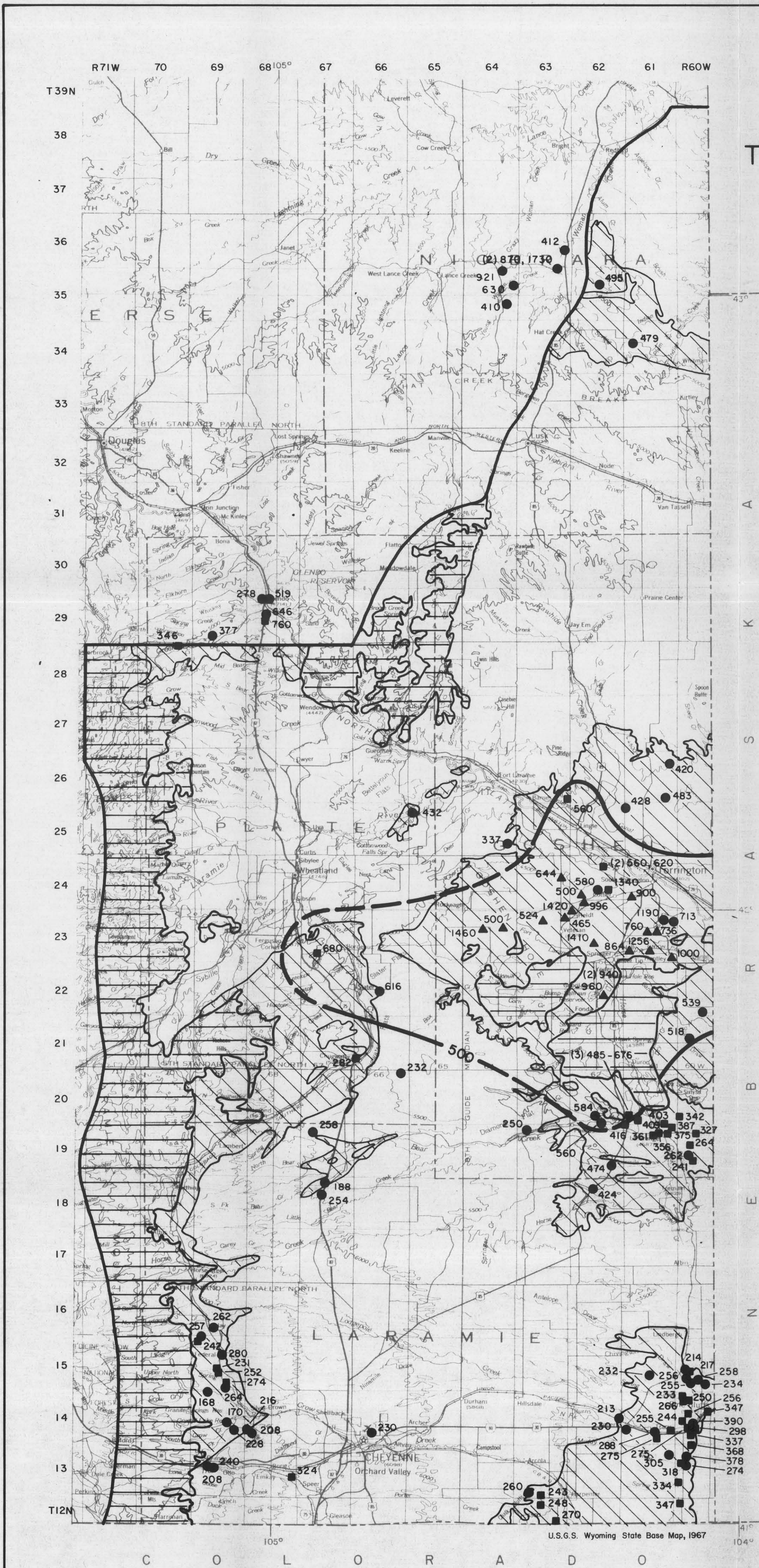
TOTAL DISSOLVED SOLIDS MAP OF THE WHITE RIVER AQUIFER, TERTIARY AQUIFER SYSTEM, DENVER-JULESBURG BASIN, WYOMING

Wyoming Water Resources Research Institute
1981

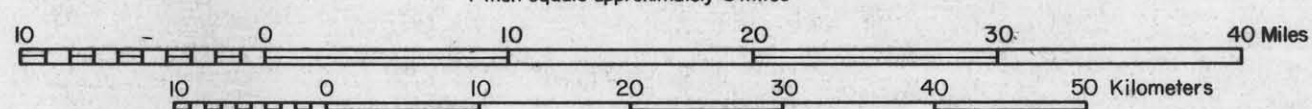
EXPLANATION

-  500 Dissolved solids contour in mg/l; dashed where inferred.
-  White River Aquifer, undivided
-  Chadron Aquifer
-  Brule Aquifer
-  Numbers represent total dissolved solids concentration in mg/l.
-  Outcrop of the White River Fm.
-  Tertiary formations absent

Sources include: Love and others, 1955; U.S. Geological Survey, 1971.



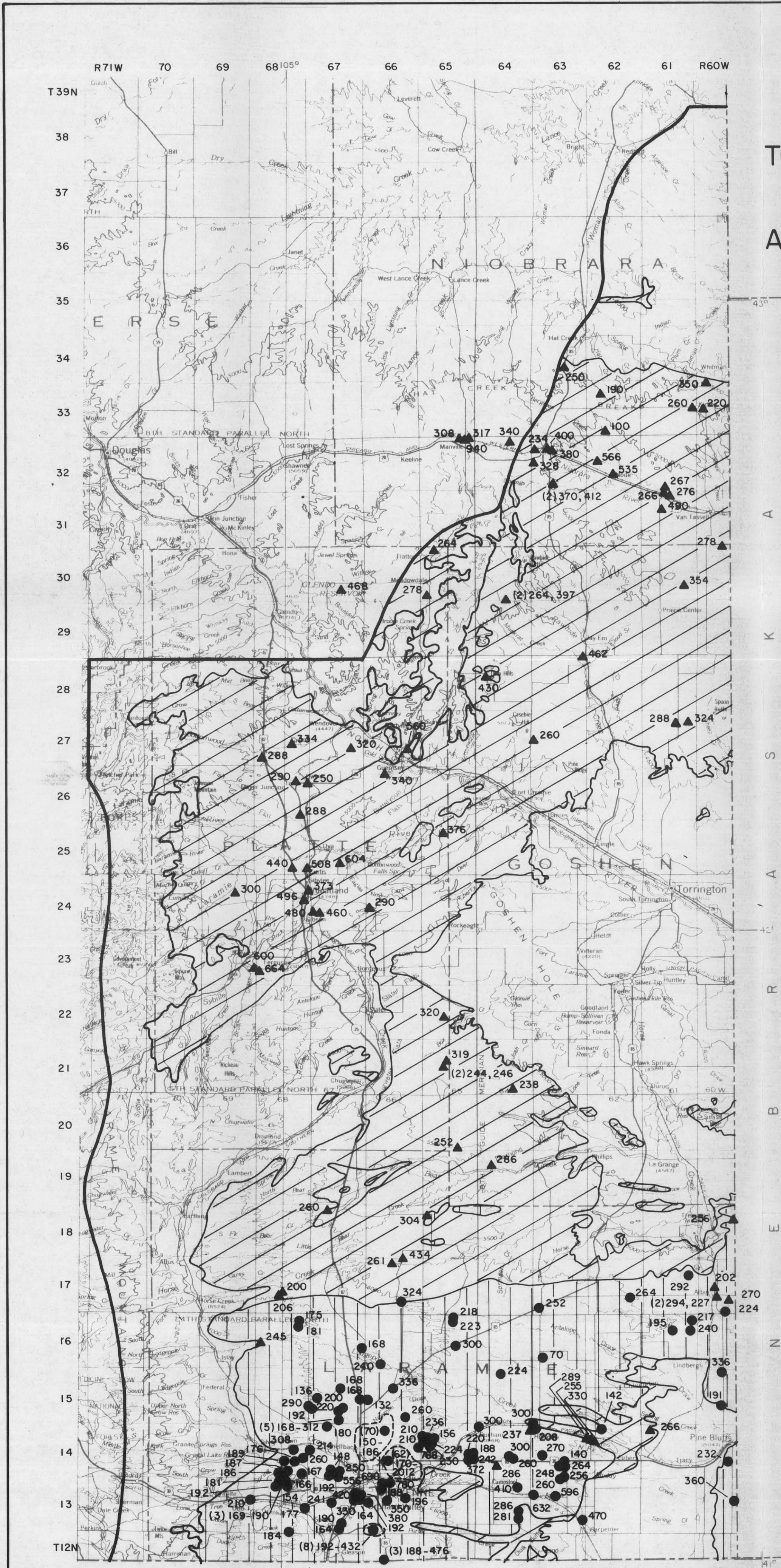
SCALE 1:500,000
1 inch equals approximately 8 miles



Contour interval 500 feet

TOTAL DISSOLVED SOLIDS MAP OF THE ARIKAREE & OGALLALA AQUIFERS, TERTIARY AQUIFER SYSTEM, DENVER-JULESBURG BASIN, WYOMING

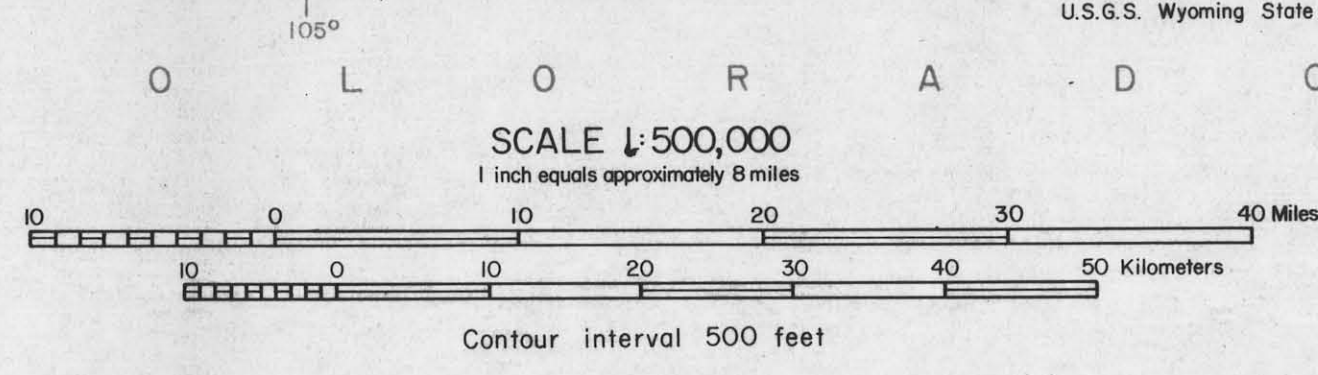
Wyoming Water Resources Research Institute
1981



EXPLANATION

- ▲ Arikaree Aquifer
- Ogallala Aquifer
- 224 Numbers represent total dissolved solids concentration in mg/l
- Outcrop of Arikaree Formation
- Outcrop of Ogallala Formation

Sources include: Love and others, 1955; U.S Geological Survey, 1971.



TOTAL DISSOLVED SOLIDS MAP
OF
QUATERNARY AQUIFERS,
DENVER-JULESBURG BASIN,
WYOMING

Wyoming Water Resources Research Institute
1981

EXPLANATION

- Alluvial deposits
- Terrace deposits
- 337 Numbers represents total dissolved solids concentration in mg/l
- Quaternary alluvial and terrace deposits

Source include: Love and others, 1955; U.S. Geological Survey, 1971.

