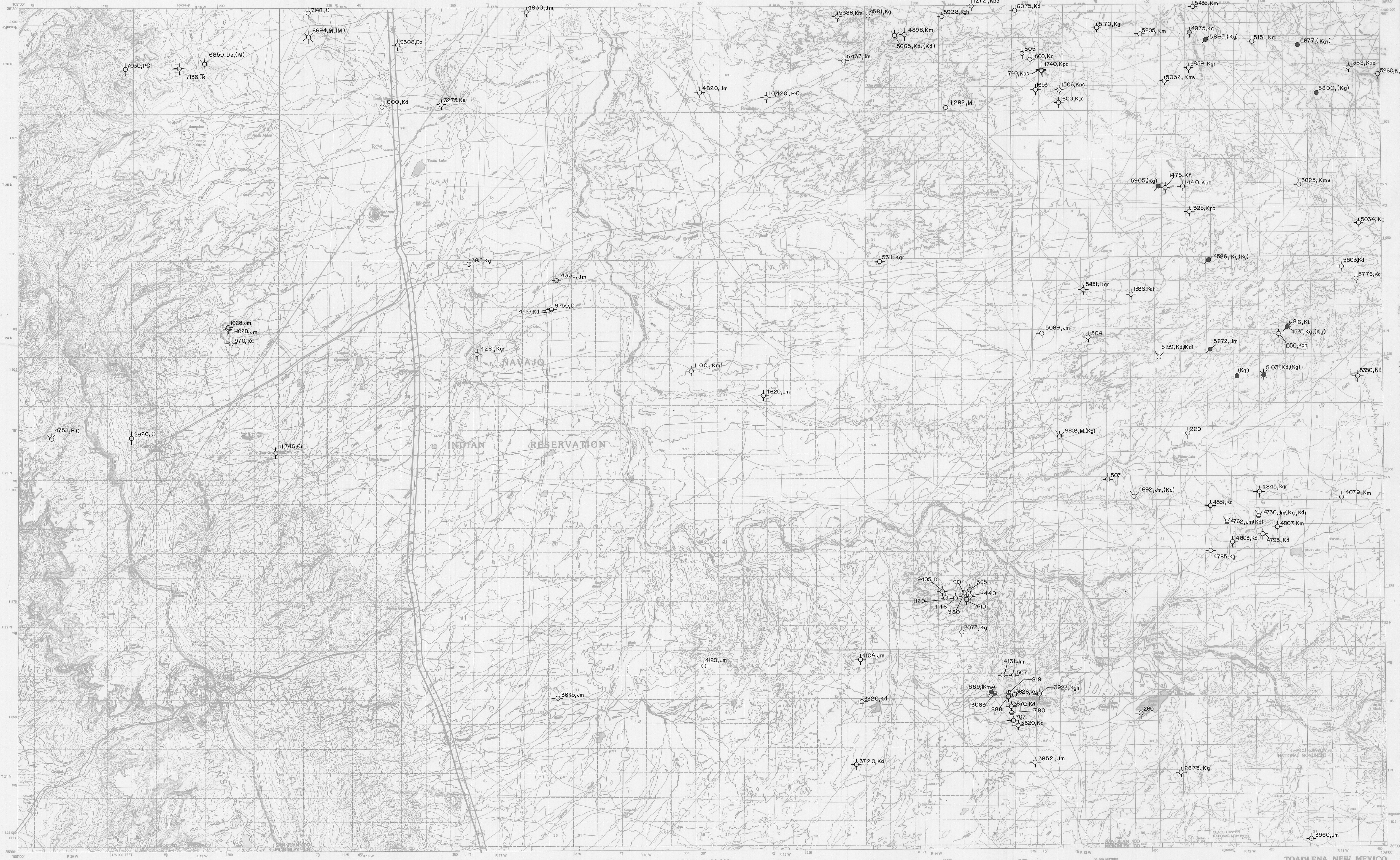


OF-232
Map 63.

TOADLENA, NEW MEXICO

30 X 60 MINUTE SERIES (TOPOGRAPHIC)



SCALE 1:100 000
KILOMETERS 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
MILES 1 2 3 4 5 6 7 8 9 10 11 12 13
CENTIMETER ON THE MAP REPRESENTS 1 KILOMETER ON THE GROUND
CONTOUR INTERVAL 20 METERS

TOADLENA, NEW MEXICO
N3600-W10800/30 X 60
1980

MAP 63 Petroleum tests in the Toadlena 30- by 60-minute topographic quadrangle, San Juan County, New Mexico.

**OF-232
Map 64.**

FARMINGTON, NEW MEXICO-COLORADO

30 X 60 MINUTE SERIES (TOPOGRAPHIC)



Tertiary	Tjo	Ojo Alamo Sandstone
Cretaceous	Kla	Formington Sandstone Member of Kirtland Shale
	Kf	Fruitland Formation
	Kpc	Pictured Cliffs Sandstone
	Kl	Lewis Shale
	Kah	Chacra producing interval
	Kmv	Mesa Verde Group
	Kmf	Menefee Formation
	Km	Mancos Shale
	Kpi	Point Lookout Sandstone
	Kh	Hasta Tongue of Point Lookout Sandstone
	Ka	Dalton Sandstone Member of Crevasse Canyon Formation
	Kg	Gallup Sandstone (basal Niobrara sands)
	Ki	Toledo Sandstone Lenth of Mancos Shale
	Kp	Hospah Sandstone (true Gallup Sandstone)
	Ks	Sonstee (Juana Lopez) Member of Mancos Shale
	Kc	Corlie Shale Member of Mancos Shale

Cretaceous	Kgh	Greenhorn Limestone Member of Mancos Shale
	Kgr	Generosa Shale Member of Mancos Shale
	Kd	Dakota Sandstone
Cretaceous	Jbc	Burro Canyon Formation
	Jb	Brushy Basin Member of Morrison Formation
	Jw	Westwater Canyon Member of Morrison Formation
	Jm	Morrison Formation
	Jt	Toddlito Limestone
	Je	Enferrado Sandstone
	Jc	Carnel Formation
Triassic	Tc	Chinle Formation
	Tm	Moenkapi Formation
Permian	Psa	San Andres Formation
	Pg	Glorieta Sandstone

Permian	Py	Yeso Formation
	Pc	Cutter Formation
	Po	Cocanino Sandstone
Pennsylvanian	PH	Hermosa Formation
	PHn	Honaker Trail Member of Hermosa Formation
	PHp	Paradox Member of Hermosa Formation
	PHak	Akiah zone of Paradox Member
	PHbc	Barker Creek zone of Paradox Member
	PHt	Pinkeyes Trail Member of Hermosa Formation
	PHa	Altoa (traces correlated with Altoa Series)
	PHtm	Table Mesa
Mississippian	Ml	Leadville Limestone
	Mm	Madison Limestone

Devonian	Do	Ourray Formation
	De	Elder Formation
	Da	Aneth Formation
Cambrian	Ca	Ignacio Formation

total depth	7936 Kd (kd)	Stratigraphic unit with shows or production
well symbol	○	stratigraphic unit at total depth
	○	dry hole, without reported shows
	○	dry hole, with reported oil show
	○	dry hole, with reported gas show
	○	dry hole, with reported oil & gas show
	●	producing oil well
	⊗	producing gas well
	⊗	abandoned oil well
	⊗	abandoned gas well

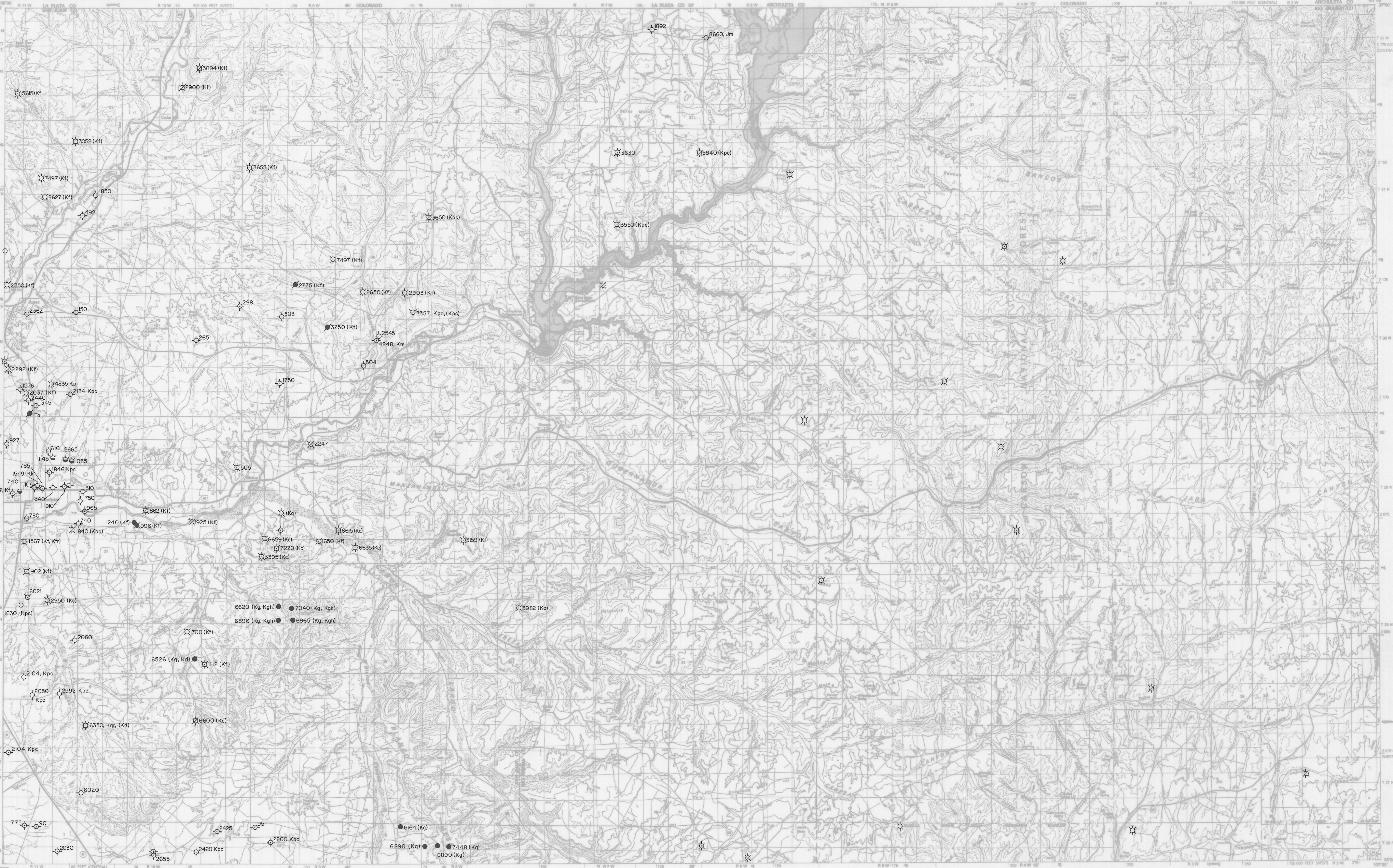
MAP 64 Petroleum tests in the Farmington 30- by 60-minute topographic quadrangle, San Juan County, New Mexico.

FARMINGTON, NEW MEXICO-COLORADO
N3630-W10800/30x60

OF-232, 233
Map 65.

NAVAJO RESERVOIR, NEW MEXICO

30X60 MINUTE SERIES (TOPOGRAPHIC)



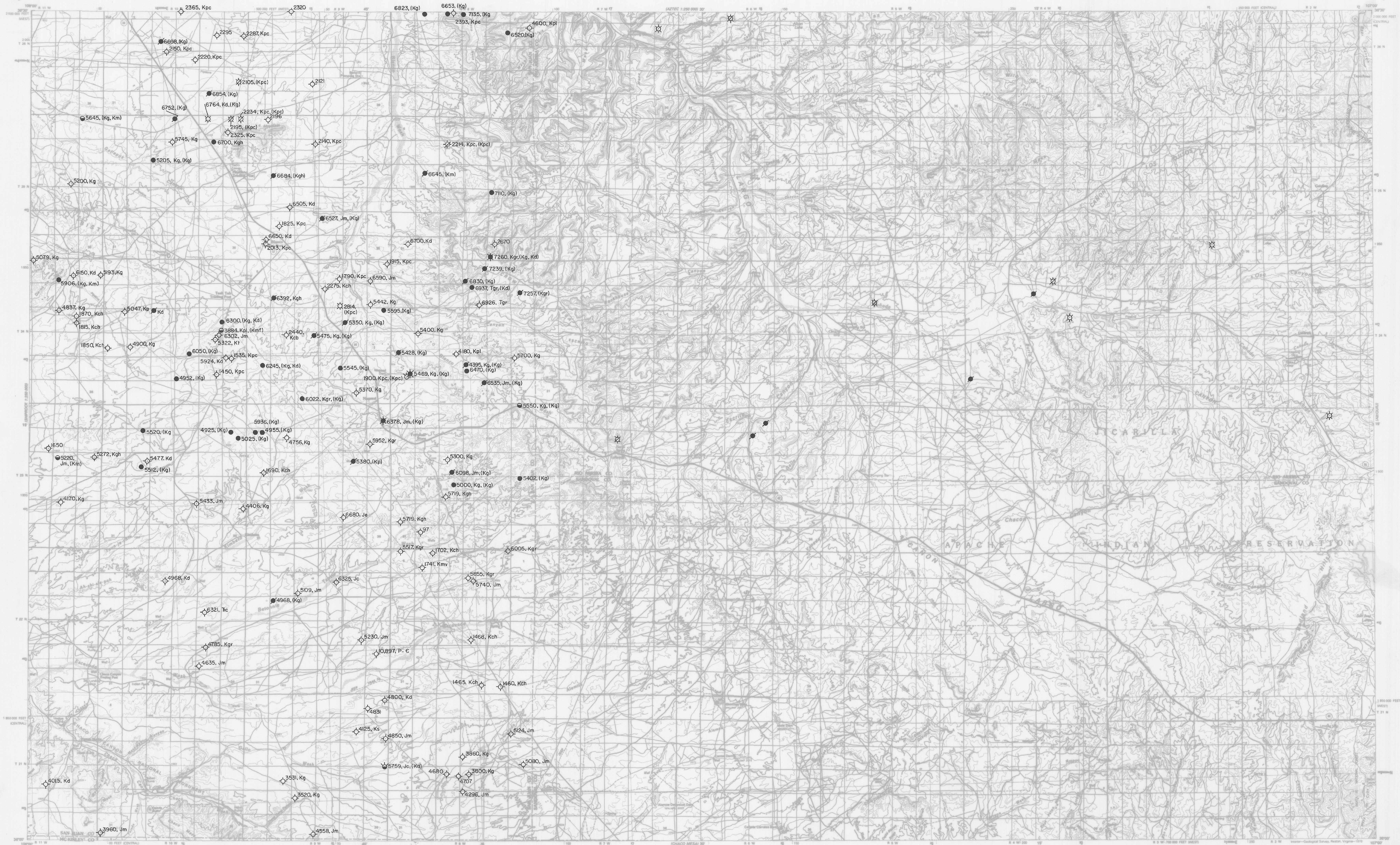
MAP 65 Petroleum tests in the Navajo Reservoir 30- by 60-minute topographic quadrangle, San Juan and Rio Arriba Counties, New Mexico.

NAVAJO RESERVOIR, NEW MEXICO
N3630-W10700/30x60
1980

OF-232, 233
Map 66.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

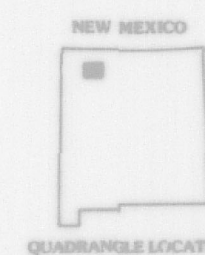
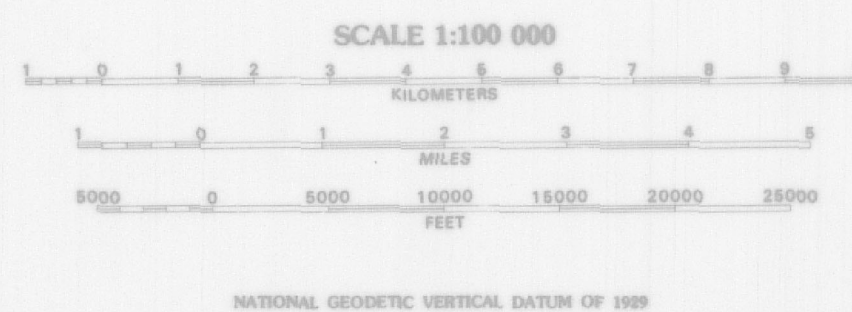
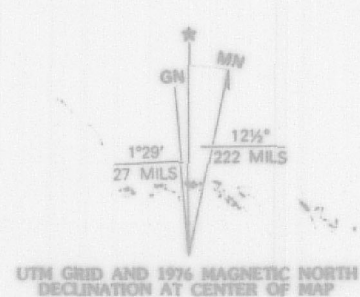
CHACO CANYON QUADRANGLE
NEW MEXICO
1:100 000-SCALE SERIES



Mapped, edited, and published by the Geological Survey
Compiled in 1976 from USGS 1:24 000 and 1:62 500-scale topographic
maps dated 1959-1967. See index for dates of individual maps.
Partially revised from aerial photographs taken 1973-1976
and from other official sources. Revised information not field checked.

INDEX TO 1:24 000 AND 1:62 500-SCALE MAPS

1	2	3	4	5	6	7
8	9	10	11	12	13	
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29					



LEGEND

- Potential stream, lake
- Intermittent stream, lake
- Village or locality
- Landmark structure
- Public park or recreation area
- Forest or game land area
- Other public area or military or Indian reservation

ROAD CLASSIFICATION

- Primary highway, hard surface
- Secondary highway, hard surface
- Light-duty road, hard or improved surface
- Street or unimproved road
- Trail
- Interstate route
- U.S. route
- State route

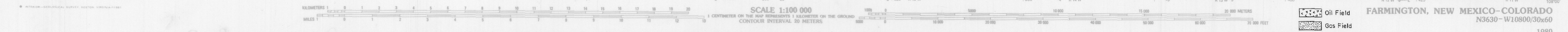
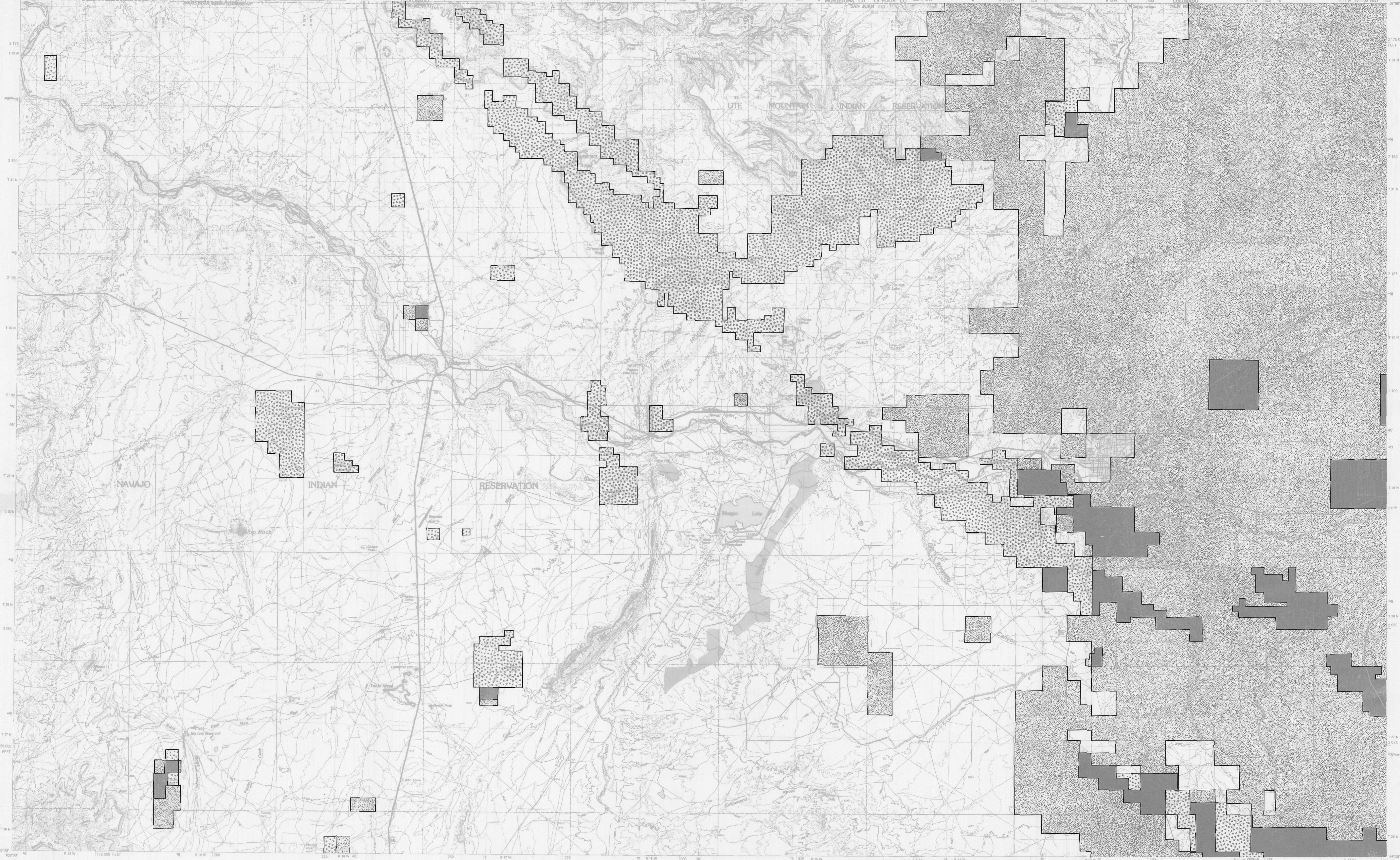
CHACO CANYON, NEW MEXICO
GSA AZTEC IN 13-15 1:250 000-SCALE MAP
13500-110170-35-00
1976

MAP 66 Petroleum tests in the Chaco Canyon 30- by 60-minute topographic quadrangle, San Juan and Rio Arriba Counties, New Mexico.

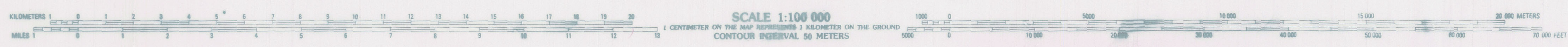
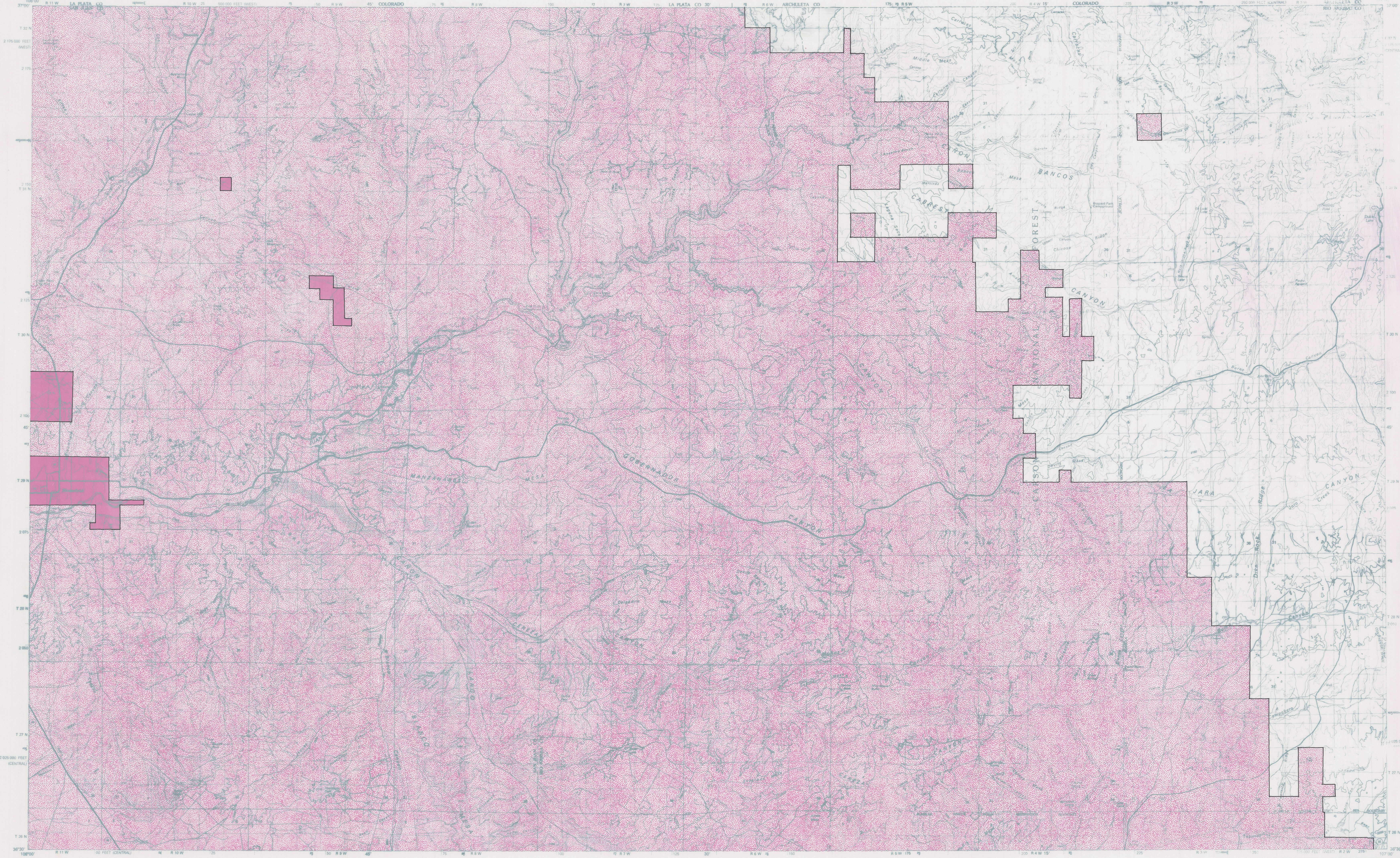


MAP 67 Oil and gas fields in the Toadlena 30- by 60-minute topographic quadrangle, San Juan County, New Mexico.

- Oil Field
- Gas Field
- Combination Oil & Gas Field



MAP 68 Oil and gas fields in the Farmington 30- by 60-minute topographic quadrangle, San Juan County, New Mexico.



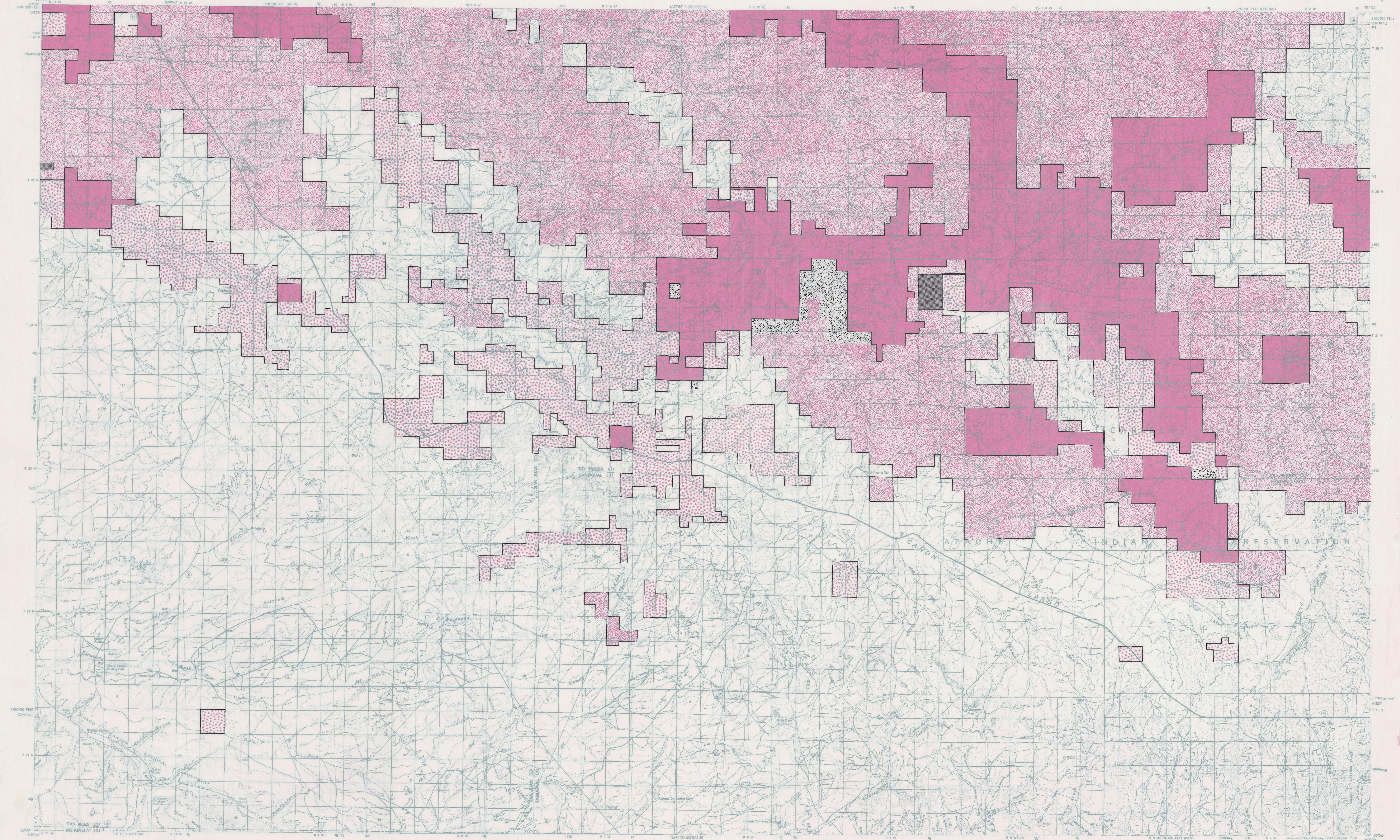
- Oil Field
- Gas Field
- Combination Oil & Gas Field

MAP 69 Oil and gas fields in the Navajo Reservoir 30- by 60-minute topographic quadrangle, San Juan and Rio Arriba Counties, New Mexico.

OF-232, 233
Map 70.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

CHACO CANYON QUADRANGLE
NEW MEXICO
1:100 000-SCALE SERIES

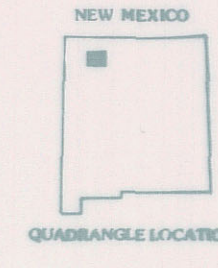
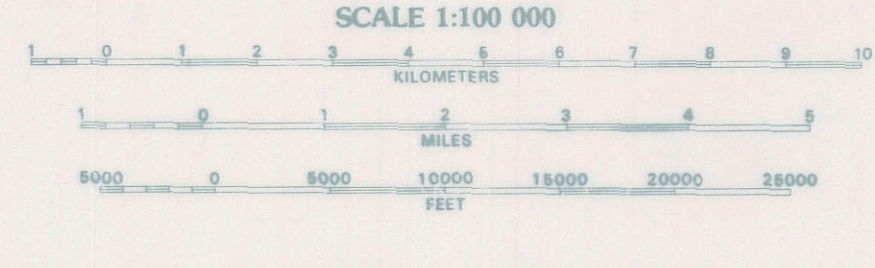
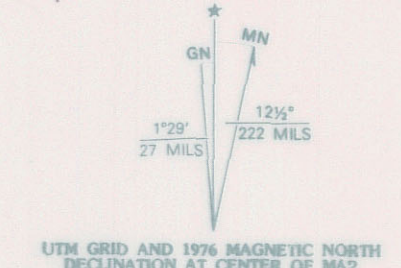


Mapped, edited, and published by the Geological Survey
Compiled in 1976 from USGS 1:24 000 and 1:62 500-scale topographic
maps dated 1959-1967. See index for dates of individual maps
Partially revised from aerial photographs taken 1973-1976
and from other official sources. Revised information not field checked
Projection and 10 000-meter grid, zone 13: Universal
Transverse Mercator
50 000-foot grid ticks based on New Mexico coordinate
system, central and west zones. 1927 North American datum
Areas covered by dashed light-blue pattern are subject
to controlled inundation

INDEX TO 1:24 000 AND 1:62 500-SCALE MAPS

1	2	3	4	5	6	7
8	9	10	11	12	13	
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29					

- 1 Huerfano Trading Post 1959-1960
- 2 Huerfano Trading Post 1967
- 3 Huerfano 1959
- 4 Chaco Mesa 1963
- 5 Chaco Mesa 1963
- 6 Chaco Mesa 1963
- 7 Huerfano Trading Post 1959-1960
- 8 Huerfano Trading Post 1967
- 9 Huerfano 1959
- 10 Chaco Mesa 1963
- 11 Chaco Mesa 1963
- 12 Chaco Mesa 1963
- 13 Huerfano Trading Post 1959-1960
- 14 Huerfano Trading Post 1967
- 15 Huerfano 1959
- 16 Chaco Mesa 1963
- 17 Chaco Mesa 1963
- 18 Chaco Mesa 1963
- 19 Huerfano Trading Post 1959-1960
- 20 Huerfano Trading Post 1967
- 21 Huerfano 1959
- 22 Chaco Mesa 1963
- 23 Chaco Mesa 1963
- 24 Chaco Mesa 1963
- 25 Huerfano Trading Post 1959-1960
- 26 Huerfano Trading Post 1967
- 27 Huerfano 1959
- 28 Chaco Mesa 1963
- 29 Chaco Mesa 1963

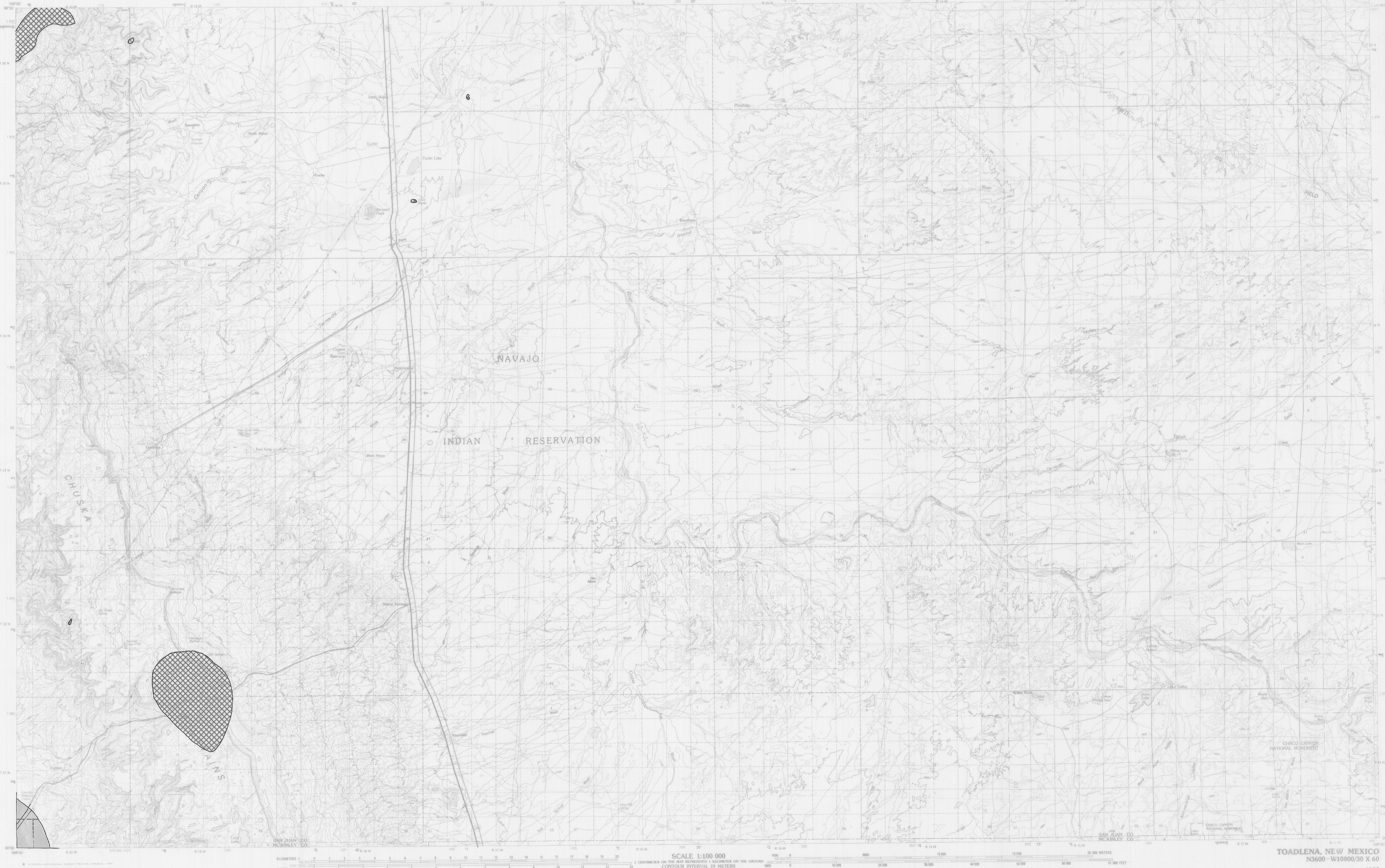


- Oil Field
- Gas Field
- Combination Oil & Gas Field


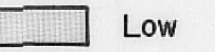
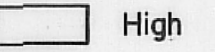
- LEGEND
- Perennial stream, lake
 - Intermittent stream, lake
 - Village or locality
 - Landmark structure
 - Public park or recreation area
 - Forest or game land area
 - Other public area or Military or Indian reservation

- ROAD CLASSIFICATION
- Primary highway, hard surface
 - Secondary highway, hard surface
 - Light-duty road, hard or improved surface
 - Street or unimproved road
 - Trail
 - Interstate route
 - U.S. route
 - State route

MAP 70 Oil and gas fields in the Chaco Canyon 30- by 60-minute topographic quadrangle, San Juan and Rio Arriba Counties, New Mexico.



MAP 71 Petroleum resource potential in the Toadlena 30- by 60-minute topographic quadrangle,
San Juan County, New Mexico.

-  Moderate
-  Low
-  High

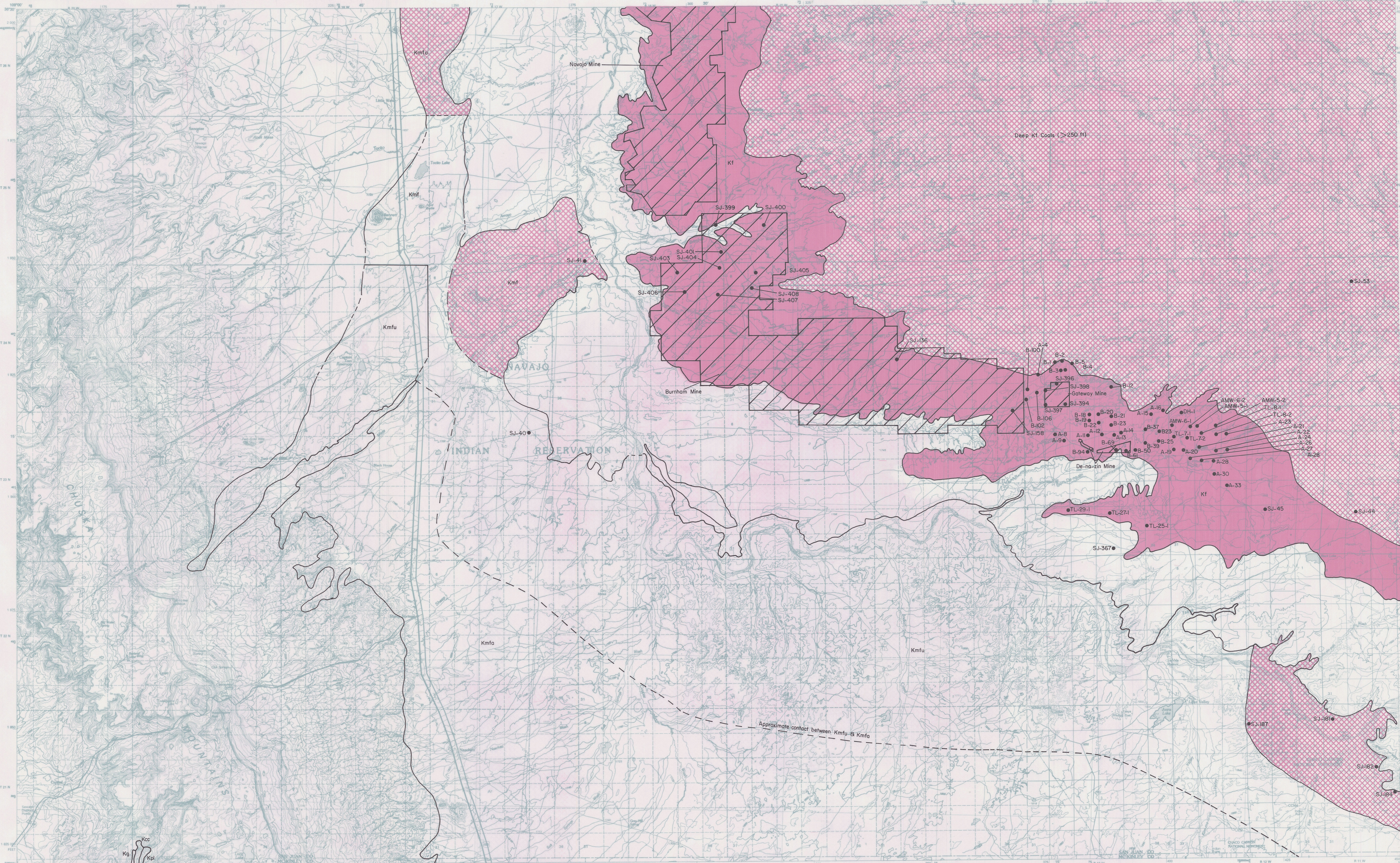


KILOMETERS 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
MILES 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
SCALE 1:100 000
1 CENTIMETER ON THE MAP REPRESENTS 1 KILOMETER ON THE GROUND
CONTOUR INTERVAL 20 METERS

FARMINGTON, NEW MEXICO-COLORADO
N3630-W10800/30x60
1980

Moderate
High

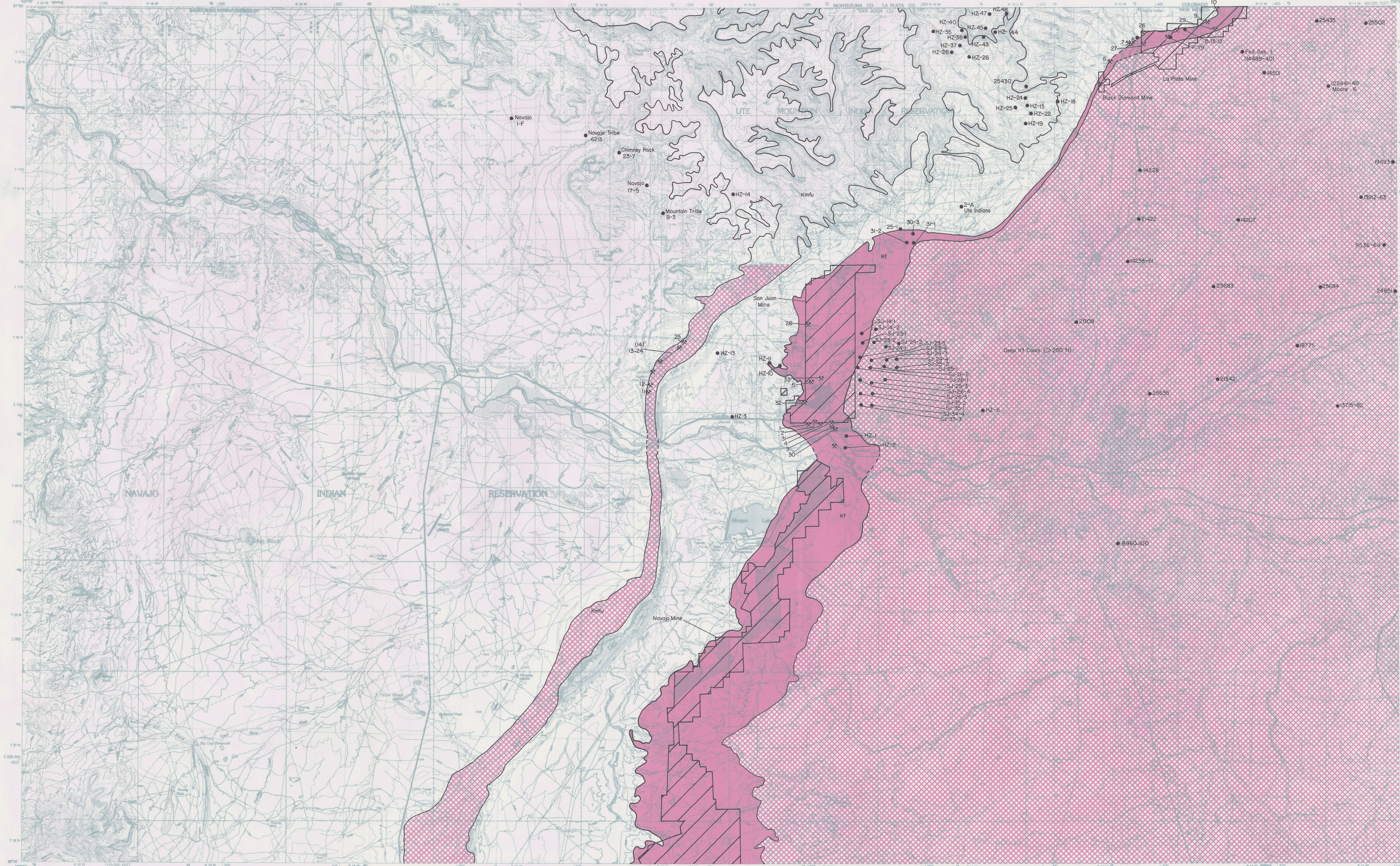
MAP 72 Petroleum resource potential in the Farmington Lake 30- by 60-minute topographic quadrangle, San Juan County, New Mexico.



SCALE 1:100 000
 CENTER OF THE MAP REPRESENTS 1 KILOMETER ON THE GROUND
 CONTOUR INTERVAL 20 METERS

- Kf Fruitland Formation
- Kmfu Upper Member of Menefee Formation
- Kmfa Allison Member of Menefee Formation
- SJ-407 Drill hole & drill hole number
- High
- Moderate
- Very low
- New mine locations

MAP 73 Coal occurrences, prospects, mines, and resource potential for Toadlena 30- by 60-minute topographic quadrangle, San Juan County, New Mexico.



SCALE 1:100 000
 1 CENTIMETER ON THE MAP REPRESENTS 1 KILOMETER ON THE GROUND
 CONTOUR INTERVAL 20 METERS

FARMINGTON, NEW MEXICO-COLORADO
 N3630-W10800/30x60
 1980

Kf Fruitland Formation
 Kmfu Upper Member of Menefee Formation
 ● HZ-6 Drill hole & drill hole number

High
 Moderate
 Very low
 New mine leases

MAP 74 Coal occurrences, prospects, mines, and resource potential for Farmington 30- by 60-minute topographic quadrangle, San Juan County, New Mexico.