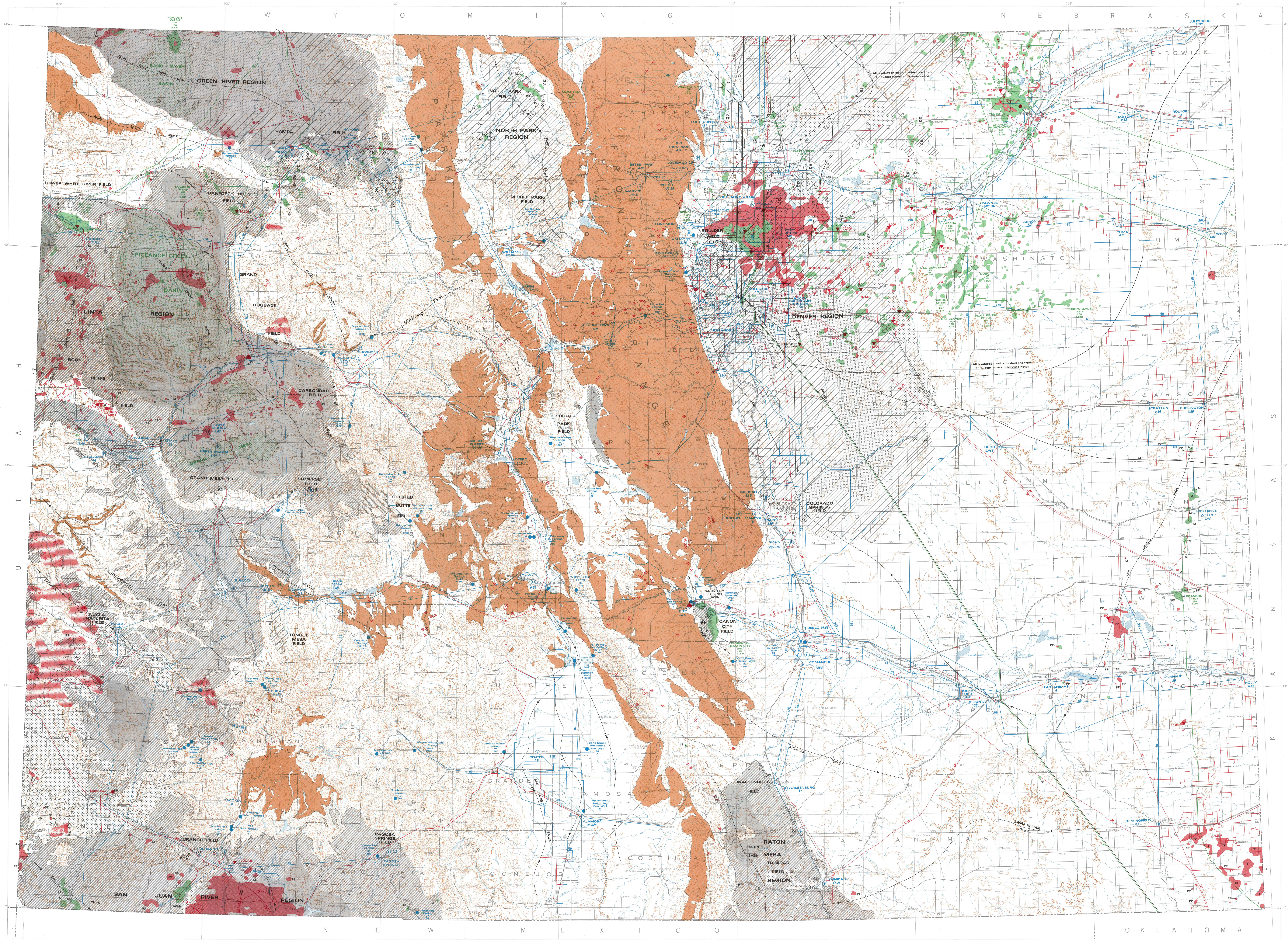
DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

MISCELLANEOUS INVESTIGATIONS SERIES
MAP I–1039


W Y O M I N G
N E B R A S K A
K A N S A S
O K L A H O M A
N E W M E X I C O
U T A H
POWDER WASH 726 158 5,621
SAND WASH BASIN
GREEN RIVER REGION
M O F F A T
AXIAL BASIN UPLIFT
YAMPA FIELD
HAYDEN 180 250 UC
CRAIG 450 UC
LOWER WHITE RIVER FIELD
DANFORTH HILLS FIELD
MAUDLIN GULCH 282 127 8,191
RANGELY 140,486 20,398 517,440
RANGELY 76.734
WILSON CREEK 5,353 1,192 75,160
PICEANCE CREEK BASIN
UINTA REGION
GRAND HOGBACK FIELD
BOOK CLIFFS FIELD
CARBONDALE FIELD
SHOSHONE 14.4
LOWER MOLINA 4.86
UPPER MOLINA 8.64
PALISADE 3
CAMEO 66
FRUITA 18.95
REDLANDS 14
GRAND MESA FIELD
SOMERSET FIELD
OLIVER 3
CRESTED BUTTE FIELD
DELTA 5
UNCOMPAHGRE UPLIFT
PARADOX BASIN
NUCLA-NATURITA FIELD
NUCLA 32.95
TONGUE MESA FIELD
JIM BULLOCK 76
CRYSTAL 28 UC
MORROW POINT 120
BLUE MESA 60
GUNNISON UPLIFT
OURAY 0.432
AMES 3.6
TACOMA 8
DURANGO FIELD
DURANGO 5
PAGOSA SPRINGS FIELD
PAGOSA SPRINGS 2
SAN JUAN RIVER BASIN REGION
NORTH PARK FIELD
McCALLUM 1,296 156 6,475
NORTH PARK REGION
MIDDLE PARK FIELD
WILLIAMS FORK 3
GREEN MOUNTAIN 21.6
ESTES PARK 0.88
ESTES 45
MARY'S LAKE 8.1
POLE HILL 33.25
FLATIRON 71.5
LOVELAND 0.9
BIG THOMPSON 4.5
WELLINGTON 35 23 7,294
FORT COLLINS 11
FORT SAINT VRAIN 330
LONGMONT 3.487
SPINDLE 11,600 1,402 3,102
VALMONT 373.75
BOULDER 20
BOULDER-WELD FIELD
GEORGETOWN 1.44
CABIN CREEK 300
CHEROKEE 715.5
ZUNI 101
ARAPAHOE 232
FORT LUPTON 100
WATTENBERG 31,758 1 699
PIERCE 1,604 294 9,750
BLACK HOLLOW
DENVER REGION
FRONT RANGE
PARK RANGE
MOUNT ELBERT 100 UC
OTERO 11 UC
SOUTH PARK FIELD
SALIDA 0.75 0.56
BIRDSALL 62.5
RUXTON 1
MANITOU 5
DRAKE 280
NIXON 200 UC
COLORADO SPRINGS FIELD
CANON CITY-FLORENCE BASIN
CANON CITY 38.5
CANON CITY FIELD
FLORENCE-CANON CITY 105 19 14,654
PUEBLO 44.65
COMANCHE 350
CENTER 1.9
ALAMOSA 35.525
WALSENBURG FIELD
WALSENBURG 11
RATON MESA TRINIDAD FIELD REGION
TRINIDAD 11.25
APISHAPA UPLIFT
MOUNT HOPE 71 46 6,698
YENTER 402 62 9,774
GRAYLIN-NORTHWEST 745 122 12,299
ADENA 668 145 60,228
LITTLE BEAVER 113 50 15,699
BOBCAT 99 18 6,985
BADGER CREEK 286 29 6,224
BIG BEAVER 1,478 146 11,393
PLUM BRUSH CREEK 498 111 15,242
PEORIA 7,008 1,414 7,776
RUSH-WILLADEL 3,611 230 4,212
PAWNEE 500 UC
AKRON 1.2
YUMA 0.85
HAXTON 0.62
HOLYOKE 1
JULESBURG 3.225
WRAY 1.53
HUGO 0.465
STRATTON 0.56
BURLINGTON 7.55
CHEYENNE WELLS 0.43
BRANDON 1,992 544 7,003
LAS ANIMAS 6
LAMAR 36
HOLLY 0.48
ROCKY FORD 17.5
LA JUNTA 26
SPRINGFIELD 4.6
SIERRA GRANDE UPLIFT
LAS ANIMAS ARCH
All production inside dashed line from Kl except where otherwise noted

Base from U.S. Geological Survey, 1968

SCALE 1:500 000

10 0 10 20 30 40 50 MILES

10 0 10 20 30 40 50 KILOMETERS

CONTOUR INTERVAL 500 FEET
DATUM IS MEAN SEA LEVEL

ENERGY RESOURCES MAP OF COLORADO

By
United States Geological Survey and Colorado Geological Survey
1977

EXPLANATION

PETROLEUM AND NATURAL GAS

FIELDS

- 🟩 Oil
- 🟥 Gas

AGE OF PRODUCING ROCKS

T	Tertiary
Kl	Late Cretaceous
Ke	Early Cretaceous
J	Jurassic
Ѣ	Triassic
PIP	Permian and Pennsylvanian
M	Mississippian

TWENTY-FIVE LARGEST FIELDS

BADGER	Name
286	Estimated reserves as of Jan. 1, 1975—Thousands of barrels
29	1974 production—Thousands of barrels
6,224	Cumulative production as of Jan. 1, 1975—Thousands of barrels

OIL, GAS, AND PRODUCTS PIPELINES—Showing size, in inches, and flow direction. Pipelines of less than 8-inch diameter not labeled

18" →	Oil
10"	Gas
10" →	Products
30,000 ■	OIL REFINERY—Showing capacity in barrels/day
28,000 ▼	GAS PROCESSING PLANT—Showing capacity in thousand cubic feet/day
Fruita ●	GAS STORAGE FACILITY

GEOTHERMAL

Idaho Hot Springs 20–46 50E ●	THERMAL SPRING OR WELL
20–46	Temperature—In degrees C.
50	Discharge—In gallons/minute
E	Estimate
?	Unknown
▨	KNOWN GEOTHERMAL RESOURCE AREA—Federal land

OIL SHALE

- ▨ AREA UNDERLAIN BY OIL SHALE YIELDING 25 OR MORE GALLONS OF OIL PER TON
- ▨ AREA UNDERLAIN BY OIL SHALE OF LESSER RESOURCE POTENTIAL
- ▨ AREA UNDERLAIN BY UNEVALUATED OIL SHALE
- —100— AGGREGATE THICKNESS, IN FEET, OF BEDS OF OIL SHALE GREATER THAN 10 FT (3 M) THICK, YIELDING 25 OR MORE GALLONS OF OIL PER TON—Isopach interval is 200 ft (61 m) except as otherwise indicated. Approximate where extended beyond areas of resource potential
- —15— THICKNESS, IN FEET, OF SEQUENCE OF OIL-SHALE BEDS THAT AVERAGES 25 GALLONS OF OIL PER TON—Approximate where extended beyond areas of resource potential
- CONTACT AT BASE OF LANEY MEMBER (EOCENE) OF GREEN RIVER FORMATION IN SAND WASH BASIN AND AT BASE OF PARACHUTE CREEK MEMBER (EOCENE) OF GREEN RIVER FORMATION ELSEWHERE
- PROJECTED POSITION OF BASE OF PARACHUTE CREEK MEMBER OF GREEN RIVER FORMATION ON GRAND MESA—Line is approximately 1,000 ft (300 m) above base of Green River Formation

ELECTRICITY

WRAY	GENERATING STATIONS—Showing names of plants and capacities in megawatts
Ⓕ 202	Fuel-fired
Ⓗ 0.56	Hydroelectric
Ⓝ 330	Nuclear
UC	Under construction

TRANSMISSION LINES—Showing capacities in kilovolts. Two kilovolt numbers on a transmission line indicate a multiple line or a change in capacity

115	Capacity 69 kV or greater
	Capacity less than 69 kV
230	Under construction

URANIUM

- ⚒ ISOLATED URANIUM LOCALITY OR MINE
- ▤ URANIUM DISTRICT
- URANIUM MILL

COAL

AREAS THAT ARE UNDERLAIN BY ROCKS THAT ARE KNOWN TO GENERALLY CONTAIN COAL—Specific areas may be barren or contain coal in uneconomic amounts. Areas of different coal rank may be superimposed

BITUMINOUS COAL

- ▨ Less than 3,000 ft (910 m) of overburden
- ▩ More than 3,000 ft (910 m) of overburden

SUBBITUMINOUS COAL

- ▨ Less than 3,000 ft (910 m) of overburden
- ▨ More than 3,000 ft (910 m) of overburden

▨ ANTHRACITE AND SEMIANTHRACITE

STRIPPABLE COAL—Less than 150 feet (46 m) of overburden

- ▒ Bituminous or subbituminous coal
- ░ Lignite

STRIP MINES—In areas of closely spaced mines, symbol may represent more than one mine

- ⚔ Active or licensed as of June 1, 1976
- ⚔A Abandoned

UNDERGROUND MINES—In areas of closely spaced mines, symbol may represent more than one mine opening

- ◩ Active or licensed as of June 1, 1976
- □ Abandoned

GEOLOGY

- 🟧 PRECAMBRIAN ROCKS EXPOSED AT SURFACE—From U.S. Geological Survey (1935)
- AXIS OF MAJOR UPLIFT, SHOWING PLUNGE—Drawn on top of Precambrian rocks
- AXIS OF MAJOR DEPRESSION, SHOWING DEEPEST PART OF BASIN AND PLUNGE—Drawn on top of Precambrian rocks

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_______1968c, Geologic map of the South Mamm Peak quadrangle, Garfield and Mesa Counties, Colorado: U.S. Geol. Survey open-file map, scale 1:24,000.

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For sale by Branch of Distribution, U.S. Geological Survey, Box 25286, Federal Center, Denver, CO 80225