

WELLS DRILLED FOR PETROLEUM, HELIUM, AND GEOTHERMAL RESOURCES; STRATIGRAPHIC INFORMATION AND SELECTED WELLS DRILLED FOR WATER

RECORDS OF WELLS DRILLED FOR HYDROCARBON, HELIUM, AND GEOTHERMAL RESOURCES, STRATIGRAPHIC INFORMATION, AND SELECTED WELLS DRILLED FOR WATER IN PIMA AND SANTA CRUZ COUNTIES, ARIZONA

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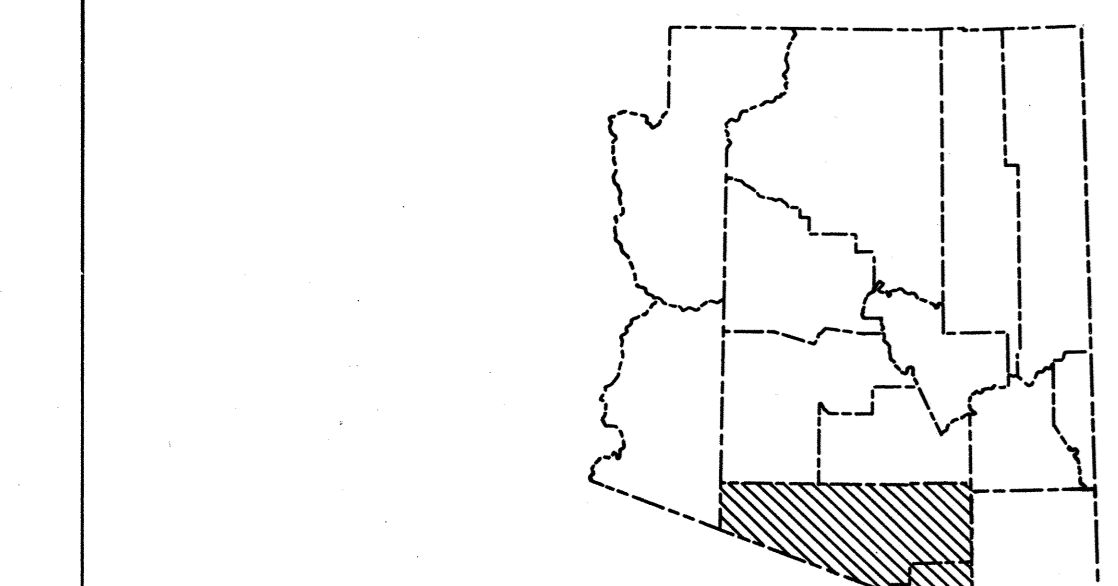
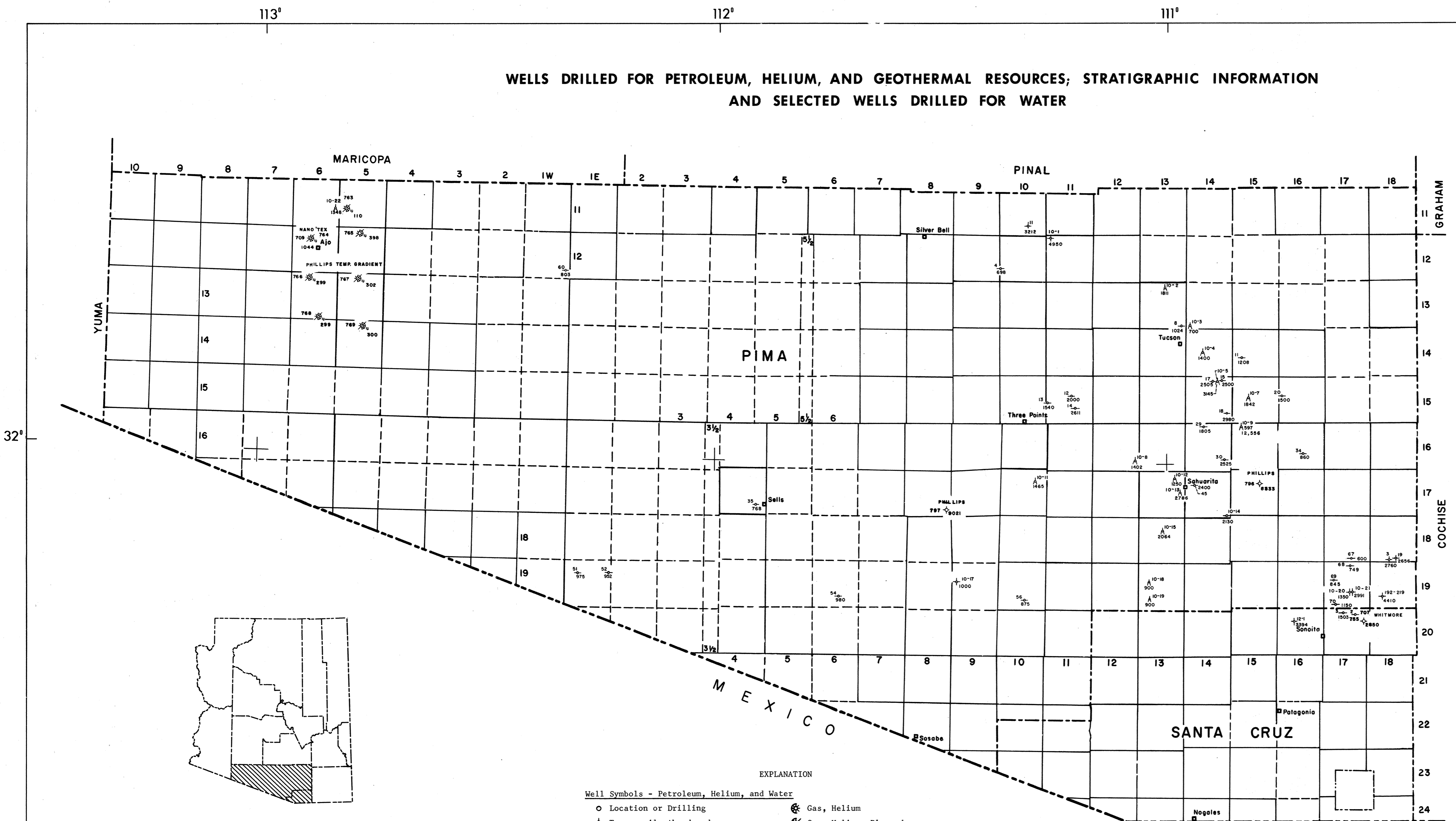
O&GCC Well Identification Number: O&GCC = Oil and Gas Conservation Commission. WW = Arbitrary number assigned by the Commission to water wells for which data is available. NP = Number assigned by the Commission, normally in sequential order by County, township, range, and section, to wells drilled prior to creation of the Commission, or to wells drilled subsequently without a permit. P = Number of "Permit to Drill" assigned officially after creation of the Commission. Location: Township, range, section and 10-acre, 40-acre, or 160-acre location within section. Some of the water well locations are subject to correction. Operator's name, well number, and mineral owner's name listed when known. None of this information is known for some water wells; usually the name listed is that of the operator, but in some instances it represents the drilling contractor, the mineral owner's name, the land-surface owner's name, a place name, or a project name. Completion: Year in which the well was completed followed by the status of the well. Abbreviations used for status: C = Drilling Well; T = Temporarily Abandoned Well; D = Dry Hole; O = Oil Well; G = Gas Well; H = Geothermal Resources (including temperature gradient) Well; H = Helium Well; S = Stratigraphic Well; L = Storage Well, Liquefied Gases; and W = Water Well. Elevation: Land-surface altitude (feet above mean sea-level). The derrick floor (DF) or Kelly bushing (KB) elevation is shown if the ground level elevation is not available. E = Estimated elevation. Most of elevations for water wells and some wells drilled for other resources or purposes determined from United States Geological Survey topographic maps. Geologic Age of Rock at Bottom of Hole (Total Depth): For most wells the geologic system only is shown. Geologic Material: The existence of electric and radioactivity logs E, graphic lithologic logs L, samples of drill-bit cuttings or cores S, and lithologic descriptions D of samples are indicated by the letter "X" in the respective columns. Most of the indicated material, and supplementary information, is available for examination in the office of the Arizona Geological Survey. The reader is referred to the Arizona Department of Water Resources in Phoenix for more comprehensive information on water well data.

Note: In a few instances one symbol on the map represents two wells drilled at closely adjacent locations.

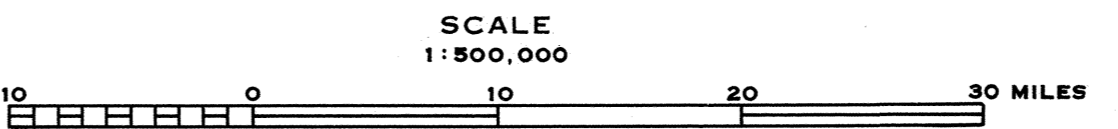
Table with columns: O&GCC IDENTIFICATION NUMBER, LOCATION, NAME, COMPLETION, ELEVATION, TOTAL DEPTH, GEOLOGIC AGE AT TOTAL DEPTH, GEOLOGIC MATERIAL. Includes entries for various wells like Derry Mineral Development, El Paso Natural Gas, U.S.G.S. City Test 1, etc.

Table with columns: O&GCC IDENTIFICATION NUMBER, LOCATION, NAME, COMPLETION, ELEVATION, TOTAL DEPTH, GEOLOGIC AGE AT TOTAL DEPTH, GEOLOGIC MATERIAL. Includes entries for Phillips Petroleum A-1 Federal, Vaya Chin 23A, etc.

Table with columns: O&GCC IDENTIFICATION NUMBER, LOCATION, NAME, COMPLETION, ELEVATION, TOTAL DEPTH, GEOLOGIC AGE AT TOTAL DEPTH, GEOLOGIC MATERIAL. Includes entries for Jones 1 Larimore, C.A.G. Properties Inc., etc.



- EXPLANATION
Well Symbols - Petroleum, Helium, and Water
Location or Drilling, Temporarily Abandoned, Dry Hole, Oil, Oil, Plugged, Gas, Flammable, Gas, Flammable, Plugged, Gas, Helium, Temporarily Abandoned, Gas, Helium, Gas, Helium, Plugged, Stratigraphic*, Disposal, Salt Water, Pressure Maintenance, Injection, Secondary Recovery, Storage, LPG or LNG, Water, Gas, Helium, Steam, Plugged, Hot Water, Hot Water, Plugged, Water Injection.



WELL LOCATION MAP
PIMA AND SANTA CRUZ COUNTIES, ARIZONA
ARIZONA GEOLOGICAL SURVEY
in cooperation with
OIL AND GAS CONSERVATION COMMISSION
Wells Posted to January 1995

O&GCC IDENTIFICATION NUMBER---19
2656---Total Depth
* Principally holes drilled for stratigraphic information pertaining to petroleum or water resources, but includes some holes drilled for metallic mineral information.