

CIRCULAR 84

County, Township, and Range Locations of New Mexico's Mining Districts

Including Subdistricts, Camps, Synonyms, and Selected Prospect Regions

by LUCIEN FILE AND STUART A. NORTHROP

1966

New Mexico Bureau of Mines & Mineral Resources

A DIVISION OF
NEW MEXICO INSTITUTE OF MINING & TECHNOLOGY

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First printing 1966
Second printing 1980

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Introduction

Since the first mining claim was filed in New Mexico, on March 26, 1685, by Pedro de Abalos for his mine—Nuestra Senora del Pilar de Zaragoza, in the Fra Cristobal Mountains—tens of thousands of names have been applied to claims, thousands of names to prospects and mines, and hundreds of names to camps, subdistricts, and districts.

Many districts have never been formally organized with specific boundaries. District names have often been applied quite loosely, and a single district was often subdivided into two or more subdistricts or camps. As Jones (1904, p. 21) remarked, "most mining districts in New Mexico are very indefinite in regard to their extent or area; generally embracing a whole cluster or range of mountains or continuous mineralized belts, regardless of size or shape." Prospects have been referred generally to a prospecting district or region.

Highlights in the development of New Mexico mineral resources are given in the Appendix.

In his report of 1867, James W. Taylor, special commissioner of the U.S. Treasury Department for the collection of statistics upon gold and silver mining east of the Rocky Mountains (*in* Browne and Taylor, 1867, p. 324-326), noted at least 13 areas of mining in New Mexico. The following year he (Taylor, 1868, p. 4-6) noted mines at:

Abiquin (Abiquiu)	Moreno
Arroyo Honda (Hondo)	Nacimiento
Avo (Abo)	(Nacimiento)
Cerillos (Cerrillos)	Nambe mountains
Guadelupita	Ocate
(Guadalupita) de Mora	Organ mountains
Hanover	Pinos Altos
Jemas (Jemez)	Placer mountain
Los Tijeras (also as Tijera)	Raton mountains
	Santa Rita

In addition to various misspellings, some areas were mislocated. Taylor reported that the Moreno mines were "30 miles north of Taos, Moro (Mora) county." The term "district" was not yet being applied.

The construction of railroads in the Territory between 1878 and 1882 brought a great wave of prospectors. In his *Mineral Resources of the United States, 1882*, Albert Williams, Jr. (1883) began using the term "district" in reporting tonnages of coal produced in New Mexico in 1882. For example the following coal districts were named:

Amargo (also given as Monero)
Gallup
Los Cerillos (Cerrillos)
Raton
San Antonio

But, for other resources, he used "area" or "locality", not "district". Copper localities were cited as:

Andreas mountains
Hanover
Lake Valley
San Pedro
Santa Rita
Shakespeare
Tulerosa (Tularosa) in White mountains.

Williams' (1883, p. 756-758) report included a "Summary of useful minerals . . . at present mined," which was prepared by Whitman Cross. In this, a number of districts are cited, together with a larger number of areas or localities not designated districts:

<i>Cited as Districts</i>	<i>Cited as Localities</i>
Bullard's peak	Black Range mountains
Carlisle	Burro mountains
Chloride camp	Cerillos
Galisteo coal field	Lake Valley
Georgetown	Magdalena mountains
Hillsborough Los Cerillos Pinos	Mogollon mountains
Altos Turkey	Nogal mountains Old Baldy mountains
Creek White Oaks	Oscura mountains
	Placer mountains
	Pueblo springs
	Raton hills
	Santa Fe mountains
	Santa Rita mines
	Silver City
	Taos county placers

Cross also listed known occurrences, not then (1882) mined:

<i>Cited as District</i>	<i>Cited as Localities</i>
Abiquiu	Cimarron, Cito creek
	Galisteo region
	Los Cimarron mountains, 22 miles south of Santa Fe (?)
	Zuni mountains

In the period 1883-1903, the term "district" was used increasingly by various writers. In his *New Mexico mines and minerals*, Fayette A. Jones (1904) reviewed the early history of New Mexico mining, district by district. Altogether he recognized about 117 districts; numerous subdistricts and camps were described. Of his 117 districts, 48 are known by the same name today. About 12 more have slightly modified names, readily recognizable. Unfortunately, a map was not included in Jones' book.

Naming of Districts

Lindgren, Graton, and Gordon (1910, p. 46) observe that "deposits of metallic ores rarely occur in single occurrences. They cluster characteristically in certain localities and these are designated as 'districts'. Each district is delimited simply by customs or regulations of miners within its confines, and may contain several subdistricts or camps. Several districts constitute a mining region."

Custom and regulation then are the criteria for defining and naming a district. Regulation as a factor in naming of districts has not been apparent in literature, and therefore has no validity at this time.

The mining laws of 1872 are virtually cancelled out by the fact that the public land survey can be extended to any part of the mineral domain, and most of the filing for claims is now done under the public land survey.

Custom, however, is established by continual reference in literature to a name.

It is interesting to note that some of the first districts in the United States were named in terms of agricultural procedure. This was particularly true in the midwest where the farmer was a part-time miner and operating under the assumption that the minerals of the manor belonged to the lord of the manor, exploited the minerals as he found them. For example, lead ore might be turned up by the farmer's plow and his children picked up the ore behind the plow; and this at times was an important part of the production of lead, especially in the State of Illinois.

Most descriptions of metalliferous occurrences in the State are general and require knowledge of the specific district, and this fact tends to keep mineral nomenclature from being used to any great extent.

When the first primitive surveys were made, it was the privilege of the surveyor to name the area as his fancy might dictate, and this original name was easily changed later by purchasers, lessees, or mine claimants as well as by local custom.

The various land survey agencies had jurisdiction over mining lands until this function was taken over by the Bureau of the Census, which relied on the local postmaster to name the district. Thus many of the original districts were named purely on a census basis, and names of districts often reflect a fight over a local postmastership, or post office franchises, with several changes. Some of the agencies, before the Census Bureau took over, put their own district names on the mining district, and these were often changed subsequently.

Another complication in naming of districts is the fact that some districts were named on a placer mining basis, without reference to any lode mining which developed later, or without reference to lodes in the neighborhood.

Thus we find five factors which enter into the nam

ing of district: lode and placer names, survey names, post office names, agency names, and names from other sources. These are in themselves complicating factors, and become more so when local custom imposes a local name for a place officially named something else on the map or in the records.

MAPS OF MINING DISTRICTS

Starting in 1910, a number of maps of the Territory or State (New Mexico became the 47th State in 1912) were published that show the location of mining districts and the chief metals and nonmetals produced. These are summarized below.

Year	No. of Districts	Category
1910	81	Metals
1911	141	Metals
1912	85	Metals
1933	119	Metals
1937	175	Occurrences of nonmetals
1942	156	Metals and nonmetals
1955	140	Metals
1959	177	Metals and nonmetals

1910.—Lindgren, Graton, and Gordon's *The ore deposits of New Mexico* included a map showing 81 metals districts.

1911.—The Clason Map Company published a *Mining map of New Mexico* showing 141 districts, chiefly metals. See under Jones (1915).

1912.—In *The mining districts of the western United States*, Hill's New Mexico map shows only 85 districts. This map differs slightly from Lindgren, Graton, and Gordon's map of 1910. About 18 subdistricts, camps, or synonyms were added.

1915.—In 1908 Jones had prepared a booklet of 47 pages entitled *Epitome of the economic geology of New Mexico*, published by the Territorial Bureau of Immigration. This did not include a map, but listed about 100 mining districts, chiefly for metals. In 1915 essentially the same report with but a few changes was issued as Bulletin 1 of the Mineral Resources Survey of New Mexico, New Mexico School of Mines. It was entitled *The mineral resources of New Mexico* and included the Clason map of 1911. An intriguing aspect of this bulletin is that the text recognizes only 100 districts whereas the map shows 141 districts.

1930.—*New Mexico mineral deposits except fuels*, by R. W. Ellis, did not include a map but described about 75 mining districts.

1933.—*Lasky* and *Wootton's The metal resources of New Mexico and their economic features* includes two maps. The map for major metals shows 103 districts and the map for minor metals shows 43. Eliminating some duplicates, the total number of different districts is 119.

1937.—*Talmage* and *Wootton's The non-metallic mineral resources of New Mexico and their economic features (exclusive of fuels)* is accompanied by a map showing about 175 occurrences (not districts) of numerous commodities.

1942.—*Northrop's* map, accompanying the first edition of *Minerals of New Mexico*, shows 156 districts, chiefly metals.

1955.—*Anderson's* map, *Metal mining districts and sub-districts, New Mexico-1955*, that accompanied *The metal resources of New Mexico and their economic features through 1954* (published 1957), shows a total of 140 districts. This same map was issued as Plate 1 of S.B.M.M.R. Circular 77, *Directory of mines of New Mexico*, by L. A. File, published 1965. (Attention is directed to the fact that on this map the White Oaks District of Lincoln County is incorrectly shown; the mining district northeast of Ancho numbered 47 is not White Oaks but Tecolote Iron. The White Oaks District should be shown about midway between Carrizozo and map circle 45.)

1959.—*Northrop's* revised map, *Mining districts of New Mexico*, accompanying his revised edition of *Minerals of New Mexico* (Univ. New Mexico Press), shows 177 districts.

PROBLEMS INVOLVING SYNONYMS, SUBDISTRICTS, AND CAMPS

The names used in a map index do not always agree with those used in the accompanying text. For example, *Lindgren*, *Graton*, and *Gordon* (1910) used "Cuba (Nacimiento Mountains)" in their map index but "Nacimiento" in their text; the index of the text does not cite the word "Cuba". The text describes a number of districts not located on the map. The map gives 27 names in parentheses for 23 of their 81 districts; such names are those of subdistricts or camps; for practical purposes they may be regarded as synonyms.

The *Clason* (1911) map lists 38 synonyms. *Hill's* (1912) map gives 45 synonyms. *Lasky* and *Wootton's*, (1933) map of major metals districts cites 60 synonyms. In 1942, *Northrop* did not include synonyms on his map but the accompanying text lists 288 such names. *Anderson's* (1955) map gives 64 synonyms. *Northrop's* (1959) text lists about 450 synonyms for districts, sub-districts, and camps.

PROBLEMS ARISING FROM COUNTY CHANGES

In examining old records and reports, one often encounters the problem of a given district being assigned to more than one county. This is the result of the creation, from time to time, of new counties carved out of old counties and by certain other changes in county boundaries. In 1852 there were only 9 counties for New Mexico and Arizona combined; most of these, except San Miguel and Santa Fe, extended as long narrow strips clear across New Mexico and Arizona. See Figure 1, page 5. The 9 counties in 1852 were:

Bernalillo	Santa Fe
Dona Ana	Socorro
Rio Arriba	Taos
San Miguel	Valencia
Santa Ana	

Santa Ana County was abolished in 1875. See Table 1, page 4.

In 1860, Mora was added. By 1870, Colfax, Grant, and Lincoln had been created. Santa Ana was abolished in 1875. By 1889, Chaves, Eddy, San Juan, and Sierra had been added, bringing the total to 16—just one-half the present number.

By 1899, Guadalupe, McKinley, Otero, and Union had been established. The addition of Luna in 1901, and of Quay, Roosevelt, Sandoval, and Tarrant in 1903, increased the total to 25. Curry was created in 1909, De Baca and Lea in 1917, Hidalgo in 1919, and Catron and Harding in 1921—bringing the total to 31. Finally, in 1949, Los Alamos became the 32d county.

Several districts formerly located in Grant County are now in Hidalgo County, and so on. A troublesome change of recent date is the one involving the Socorro-Sierra County boundary; in 1951 the southeastward panhandle of Socorro County was added to Sierra County, and thus several districts along the San Andres Range, formerly in Socorro County, are now located in Sierra.

Districts that overlap two counties at the present time include the following:

- Ambrosia Lake (McKinley—Valencia)
- Carlsbad Potash (Eddy—Lea)
- Chloride (Sierra—Catron)
- Fremont (Hidalgo—Luna) Gold
- Hill (Grant—Hidalgo) Grants
- [now = Ambrosia Lake] Iron
- Mountain No. 2 (Sierra—Socorro)
- Placitas (Sandoval—Bernalillo)
- Rociada (Mora—San Miguel)
- Scholle (Socorro—Tarrant)
- Taylor Creek (Catron—Sierra)

TABLE I.
NEW MEXICO COUNTIES IN ORDER OF ESTABLISHMENT

1851-1852	1893
Bernalillo	Union
Dona Ana	1899
Rio Arriba	McKinley
San Miguel	Otero
Santa Fe	1901
Socorro	Luna
Taos	1903
Valencia	Quay
1859-1860	Roosevelt
Mora	Sandoval
1860-1861	Torrance
San Juan*	1909
1867-1868	Curry
Grant	1917
1868-1869	De Baca
Colfax	Lea
Lincoln	1919
1884	Hidalgo
Sierra	1921
1889	Catron
Chaves	Harding
Eddy	1949
1891	Los Alamos
Guadalupe	

* Abolished 1861-62; re-established 1887

Created	FORMER COUNTIES	Abolished
1852	Santa Ana	1875
1859	Arizona	1863
1903	Leonard Wood	1905
1923	Jefferson	1923
1923	Washington	1923

Nine counties in 1851-52. In sixteen different years (from 1859 through 1949), twenty-four counties were established. Between 1852 and 1923, five other counties were created and subsequently abolished.

DISTRICTS WITH A LARGE NUMBER OF SYNONYMS

A few extreme cases are presented here. The CENTRAL District, in a restricted sense, includes such subdistricts or areas as Bayard, Central City, Copper Flat, Fort Bayard, and Vanadium. On the other hand, some writers have used CENTRAL in a much wider sense to include the FIERRO—HANOVER, FIERRO MANGANESE, GEORGETOWN, and even SANTA RITA districts.

The CERRILLOS District has been called Bonanza City, Carbonateville, Cerillos, Galisteo, Galisteo Creek, Hungry Gulch, Los Cerrillos, Los Cersillos, Mount Chalchihuitl, Turquesa, Turquoise, Turquoise, Turquoise City, and Turquoise Hill. The BALDY District has been referred to as Aztec, Baldy Mountain,

Cimarron, Copper Park, Eagle Nest, Maxwell's, Mount Baldy, Old Baldy Mountains, Ute Creek, Virginia City, and Willow Creek.

BLACK HAWK has been cited as Alhambra, Bullard, Bullard Peak, Bullard's Cone, Bullard's Peak, Burro Mountain, and Little Bear Canyon. The BURRO MOUNTAINS District has paraded under an array of names, including Bald Mountain, Big Burro Mountains, Burro Mountain, Burro Peak, California Gulch, Cow Spring, Cow Springs, Gold Gulch, Iron Gulch, Leopold, Little Burro Mountains, Oak Grove, Oak Grove Camp, Paschal, Redrock Canyon, St. Louis Canyon, Tyrone, and West Burro Mountains; it sometimes included the WHITE SIGNAL area.

At least 13 names have been used for NOGAL and for PLACITAS; 14 for SHIPROCK; 15 for KINGSTON; 16 for TI JERAS CANYON; 21 for NEW PLACERS. CHLORIDE has masqueraded under at least 23 different names.

Several detailed analyses are given here to further illustrate some of the problems of variant names for districts, subdistricts, and camps. Lasky and Wootton (1933) included Carnuel, Coyote, Hell Canyon, La Luz, and Soda Springs as subdistricts of the TIJERAS CANYON District of Bernalillo County. The Coyote subdistrict, or "district" as it was designated by some writers, has also been referred to as Coyote Basin, Coyote Canyon, Coyote Springs, and Soda Springs; in some accounts, at least two of these were distinguished as different "districts." Hell Canyon has been called Hells Canyon, Star, and Star Canyon. Other names applied to the TIJERAS CANYON District include Sandia, Sandia Mountains, Manzanita Mountains, and North Manzano Mountains. Northrop (1959) removed the La Luz mine (itself called by some a "district" or "subdistrict") from the TIJERAS CANYON District and assigned it to the PLACITAS District of Sandoval and Bernalillo counties.

Another curious case is in McKinley County, where, within a block of four townships (T. 13, 14 N., R. 9, 10 W.), mines have been referred to four different and mostly overlapping districts: AMBROSIA LAKE, Grants, Haystack, and Mount Taylor. Other names applied to this AMBROSIA LAKE District are: Ambrosia, Grant, Grants Uranium, Haystack Mountain, and San Mateo Uranium.

Still another illustration is the LORDSBURG District of Hidalgo County, which embraces two camps: Pyramid at the south end and Shakespeare or Virginia at the north end. In some reports these are regarded as separate districts. The name Pyramid came from the Pyramid Mountains. In Pyramid Camp, a pan-amalgamation mill was named the Leidendorf (also spelled Leitendorf). A camp earlier named Ralston changed its name to Shakespeare (also spelled Shakespere). With variant and misspelled names, the roster of synonyms now includes: Grant, Leidendorf, Leitendorf, Pyramid, Pyramid Mountain, Ralston, Shakespeare, Shakespere, Valedon, and Virginia.

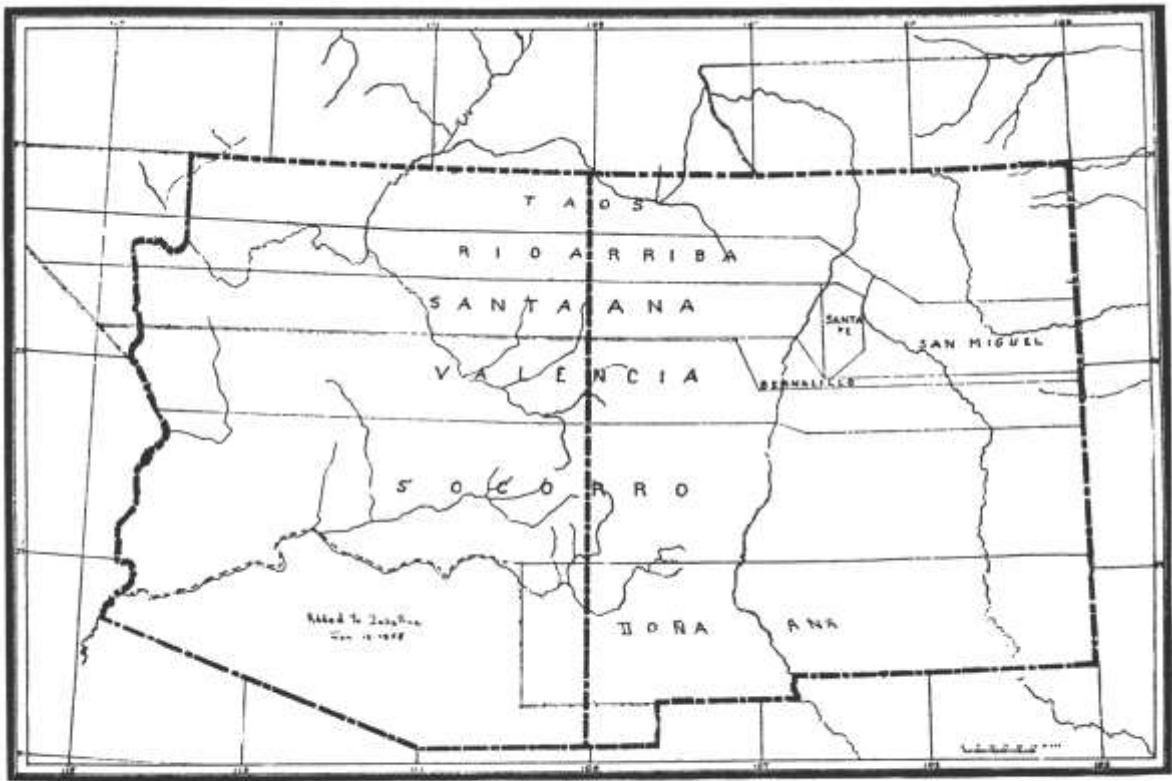


Figure 1

COUNTIES CREATED BY TERRITORIAL LEGISLATION IN 1852, FROM "COUNTY BOUNDARIES OF NEW MEXICO"—BY CHARLES F. COAN.

PROBLEM OF SAME NAME APPLIED TO TWO OR MORE DISTRICTS

Where the same name was used for two different districts, either in the same county or in different counties, certain writers distinguished them as No. 1 and No. 2. Thus, OJO CALIENTE NO. 1 District is in Rio Arriba County, whereas OJO CALIENTE NO. 2 District is in Socorro County. Apache No. 1 District in Sierra County is now generally known as the CHLORIDE District; APACHE NO. 2 District is in Hidalgo County. Bromide No. 1 in Sierra County now equals TIERRA BLANCA District; BROMIDE NO. 2 District is in Rio Arriba County. Iron Mountain No. 1 in Socorro County equals COUNCIL ROCK District; IRON MOUNTAIN NO. 2 District overlaps Sierra and Socorro counties.

In some cases, apparently, no one has bothered to add No. 1 and No. 2 to the name of a district. Thus, the Anderson district of Grant County is now designated the TELEGRAPH District, while the Anderson district of Hidalgo County is called APACHE NO. 2 District.

Bear Creek (Grant County) = JUNIPER District;
 Bear Creek (Sierra County) = CHLORIDE District.

BLACK MOUNTAIN NO. 1 and BLACK MOUNTAIN NO. 2 Districts are in Dona Ana County; Black Mountain (Grant) = STEEPLE ROCK; Black Mountain (Taos) = RED RIVER. Black Range (Catron) TAYLOR CREEK, but Black Range (Sierra) has been applied loosely to as many as three districts: CHLORIDE, HERMOSA, and KINGSTON. On the other hand, Black Range No. 1 (Sierra) = CHLORIDE, and Black Range No. 2 (Sierra) = KINGSTON.

Such words as Alum, Bear, Coyote, Eureka, Gold, Grant, Hadley, Iron Mountain, Ladron, La Madera, Little Burro, Lone Mountain, Manzano, Mineral, Montezuma, Mud Springs, Nogal, Oak, Oscura, Oscuro, Palomas, Percha, Red, Rio, San Mateo, Santa Fe, Silver Hill, Socorro, Sulphur, Tecolote, and Willow Creek have been used in two or more ways.

Variant spellings sometimes lead to confusion. Examples include Cap Rock and Caprock, High Rolls and Highrolls, Lemitar and Limitar, Manzana and Manzano, Membres and Mimbres, Oscura and Oscuro, San Andreas and San Andres, Sanastee and Sanostee; San Agustin, San Augustin, and San Augustine; Salitre and Selitre; Sapella, Sapello, and Sapillo; Schelerville and Schulerville, Shakespeare and Shakespere, White Oaks and Whiteoaks.

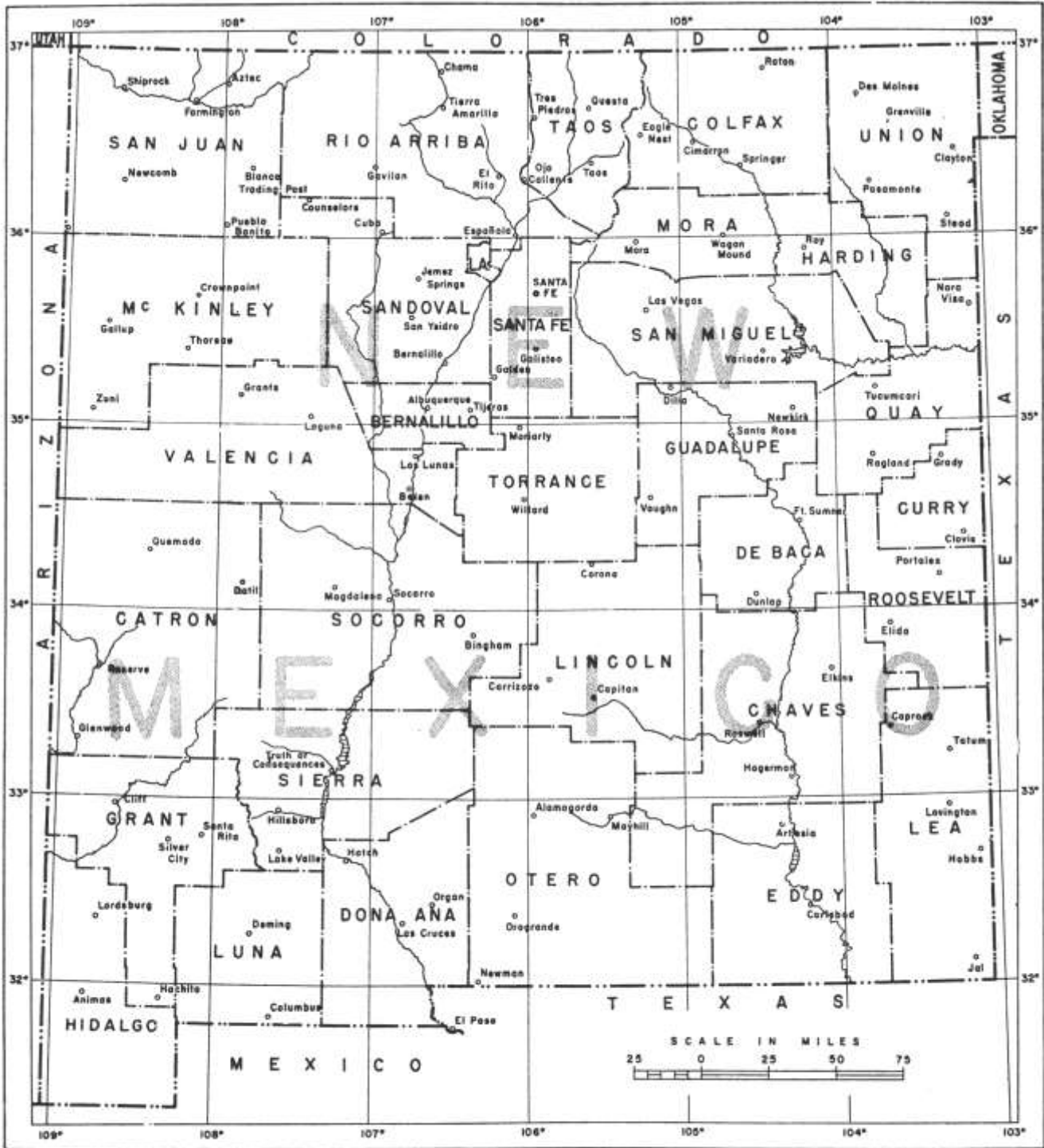


Figure 2
 NEW MEXICO COUNTIES AS OF 1966.

Leading Commodities By Districts

In various reports, and especially in the accompanying maps, several authors have cited leading commodities in mining districts. Generally they have attempted to rank these commodities in order of production values.

1908.—In his *Epitome . . .*, Jones listed the leading districts for each commodity. A summary of the number of districts cited for each of the metals is as follows:

Cu.....	47
Pb	30
Ag	29
Au (lode)	22
Au (placer)	20
Zn	13
Fe	12
Mn	8
Mo	3
Total	184

Jones also cited one or more localities for each of the following: alum, asbestos, building stone, clay, coal, fluorspar, graphite, gravel, guano, gypsum, limestone, marble, meerschaum, mica, mineral paint, natural gas, petroleum, salt, shale, sulfur, turquoise.

1910.—Lindgren, Graton, and Gordon's map index cites the leading metal for each district, as follows:

Au.....	26
Cu	25
Ag	15
Pb	11
Fe	2
Zn	1
.....	
Total	81

1911.—The Clason map (dated 1911 and included in Jones, 1915) shows the leading commodity for each of the 144 districts, as follows:

Au	49
Cu	43
Ag	29
Pb	12
Fe	5
Zn	2
Alum	1
Mica	1
.....	2
Total	144

1912.—Hill's map and report cite the leading metal for each district, as follows:

Cu.....	27
Au	26
Ag	16
Pb	11
Fe	3
Zn	2
Total	85

1933.—Lasky and Wootton's map of the major metal for each of their 103 districts reveals a ranking similar to that of the preceding maps of 1910, 1911, and 1912:

Cu.....	36
Au	34
Ag	16
Pb	12
Zn	5
Total	103

Lasky and Wootton's map of minor metals for each of 43 districts shows the following distribution:

Mn.....	15	Sn	2
Fe	8	Co	1
V.....	4	Sb	1
W.....	4	Ta	1
Bi	3	U	1
Mo	3	Total	43

Note.—Because 27 districts are duplicated in the two maps (major metals and minor metals), there are only 119 different districts.

1955.—Anderson's map dated 1955, included in his Bull. 39 (published 1957) and reprinted for inclusion in File's Circular 77 (1965), cites the leading metal for each of 140 districts, as follows:

Cu	40	Zn	8
Au	37	Be	2
Ag	14	Fe	2
Pb	13	Mo	2
Mn	10	Sn	1
U	10	W	1
Total		Total	140

SUMMARY OF ALL COMMODITIES CITED ON MAPS

Because most mining districts yield more than a single commodity, the number of occurrences of each commodity is substantially larger than the preceding lists of the leading commodity reveal.

1910.—*Lindgren*, Graton, and Gordon's map index cites the following number of districts for each metal:

Ag	50
Cu	37
Au	35
Pb	27
Zn	6
Fe	2
Total	157

There are 157 occurrences cited in 81 districts in 15 counties. In addition, gold placers are cited for 10 districts.

1911.—*The Clason* map index cites the following:

Cu	76
Ag	71
Au	59
Pb	46
Zn	15
Fe	9
Mn	1
Alum	1
Mica	1
Total	279

There are 279 occurrences cited in 144 districts in 17 counties. No commodity was cited for 2 districts. Gold placers are cited for 12 districts. In addition, coal fields are shown by stippling, and symbols are used for gypsum beds and "oil indications."

1912.—*Hill's* map and report cite the following:

Ag	57	Mn	2
Cu	51	V	2
Au	50	W	2
Pb	31	Bi	1
Zn	7	Mo	1
Fe	5	Sb	1
		Total	210

Thus there are 210 occurrences of 12 metals in 85 districts in 15 counties.

1933.—*Lasky* and Wootton's map of major metals cites:

Cu.....	69
Ag	66
Au	57
Pb	55
Zn	24
Total	271

Of the 5 major metals there are 271 occurrences in 103 districts in 19 counties.

Lasky and Wootton's map of minor metals cites:

Mn	17	U	2
Fe	11	As	1
W.....	9	Co	1
Bi	5	Ni.....	1
Mo	4	Sb	1
V	4	Ta	1
Ra	2	Te	1
Sn	2	Total	62

Of 15 minor metals there are 62 occurrences in 43 districts in 13 counties. Note that because 27 districts are duplicated in the two maps (major metals and minor metals), there are only 119 different districts.

1937.—*Talmage* and Wootton's map of nonmetals shows about 175 occurrences by red overprint, but this map does not use district names. A rapid check shows the following approximate number of different localities for each commodity:

Fluorspar	37
Stone	29
Barite	17
Bentonite	10
Alum.....	8
Shale	8
Sand &c Gravel	7
Fire Clay	5
Gypsum	5
Mica	5
Turquoise	5
Brick Clay	4
Clay	3
Pumicite	3
Sulfur	3
Asphalt	2
Kaolin	2
Meerscham	2
Mineral Paint	2
Potash	2
Salt	2
Calcite	1
Cement	1
Drilling Mud	1
Dumortierite	1
Garnet, etc.	1
Graphite	1
Kyanite	1
Lithium minerals	1
Opal	1
Pumice	1
Ricolite	1
Salines	1
Sillimanite	1
Smithsonite	1
Total	175

In this map, high-grade vs. low-grade, commercial past or present, commercial possibilities, and non-commercial are distinguished by use of symbols.

1955.—Anderson's map dated 1955, included in his Bull. 39 (published 1957) and reprinted for inclusion in Circular 77 (1965), cites the following number of districts for each metal:

Cu	78	V	9	Co	1
Ag	69	Be	5	Ni	1
Au	66	Bi	4	Sb	1
Pb	59	Mo	4	Sn	1
Zn	32	*R.E. ...	3	Te	1
U	24	Li	2	Th	1
Mn	20	Ta	2	Total .	405
	11	As	1		
Fe	9	Cb	1		

* = Rare Earths

Thus, there are 405 occurrences of 24 metals in 140 districts in 22 counties.

Attention is directed here to a series of three large New Mexico maps, issued by the State Bureau of Mines and Mineral Resources in 1958. One of these, entitled "New Mexico metal resources map," shows the *location* of metals mining districts (but not the district *name*) for 14 metals: Ag, Au, Be, Bi, Cb, Cu, Fe, Mn, Mo, Pb, Sn, V, W, Zn. A special symbol designates districts that were active prospecting, developing, or producing districts in 1956.

Another, entitled "New Mexico non-metal resources map," shows the *location* (but not the *name*) of deposits of 35 nonmetallic commodities, as follows:

Alum	Meerschaum
Asbestos	Mica
Asphalt	Mineral paints
Barite	Monazite
Bentonite	Opal
Brines	Perlite
Calcite	Potash
Clays	Pumice and
Diatomite	Volcanic ash
Dolomite	Ricolite
Dumortierite	Salt
Fluorspar	Sand and Gravel
Garnet	Scoria
Graphite	Shale
Gypsum	Sillimanite
Kaolin	Stone
Kyanite	Sulfur
Lithium minerals	Turquoise

A special symbol designates active prospecting, developing, or producing properties as of 1956.

Most dictionaries give *turquoise* as the preferred spelling, but mineralogists generally use the spelling *turquois*.

The third map, entitled "New Mexico energy resources map," shows the *location* and *names* of coal fields, the *location* (but not the *name*) of uranium deposits, oil and gas fields, wells, and several other items. Symbols distinguish active vs. inactive uranium deposits (presumably as of 1955 or 1956).

Numerous reports have been published that deal with a single commodity, such as gold, tungsten, molybdenum, uranium, fluorspar, barite, and many others. An example of such a report is Anderson's (1955) on New Mexico uranium, in which he cites 81 occurrences plus many reported prospects in several counties. The accompanying map shows 17 solid circles for mines in McKinley, Valencia, San Juan, and Socorro counties and 55 open circles designating prospects in 20 counties. Another example is a report on barite deposits in New Mexico by Williams, Fillo, and Bloom (1964). They describe 60 known barite deposits in the State and mention 24 additional occurrences of lesser importance. It is significant, however, that through 1962, 96.5 percent of the total New Mexico production came from a single deposit—the Mex-Tex mine in Socorro County.

1965.—The most recent comprehensive report dealing with the mineral resources of New Mexico is "Mineral and water resources of New Mexico," prepared by the U.S. Geological Survey for the U.S. Senate Committee on Interior and Insular Affairs, and issued by the State Bureau of Mines and Mineral Resources as Bull. 87. Text and maps were prepared by specialists on each commodity, and the treatment is somewhat uneven. For example, only 16 principal districts are cited for copper, whereas 55 localities are given for molybdenum. Yet most of the molybdenum production has come from two mines.

A summary of the treatment of metals is as follows:

Mo-55 localities in 17 counties
W-30 mines and prospects in 11 counties
Mn-24 mines in 6 counties
Fe-21 districts and deposits in 10 counties
Au-17 major producers in 13 counties; 33 minor producers
Ag-17 areas in 9 counties
Cu-16 principal districts in 12 counties
Pb-15 areas in 8 counties
Zn-11 areas in 6 counties

For thorium and rare earths, there are 24 deposits in 13 counties. Numerous deposits of uranium are recorded for several counties. There are brief sections, some with accompanying maps, on each of the following metals: As, Be, Bi, Cd, Co, Nb, Ni, Re, Sb, Se, Sn, Ta, Te, Ti, V, Zr.

A summary of the treatment of nonmetals is as follows:

Fluorspar-65 localities in 15 counties
Barite-60 deposits in 9 counties

Pegmatites and Mica-33 pegmatites in 12 counties
 Stone-23 quarries in 18 counties

For 14 different gem materials occurrences are noted in 18 counties. There are brief treatments, some with accompanying maps, of each of the following:

Adobe	Kyanite	Pyrophyllite
Bentonite	Limestone	Ricolite
Brucite	Magnesite	Salines and
Caliche	Meerschaum	Salt Sand
Clay	Nitrates	and Gravel
Diatomite	Optical	Scoria
Dolomite	calcite Perlite	Sillimanite
Guano	Potash	Sulfur Talc
Gypsum	Pumice	

The report includes also treatments of coal, oil and gas, and water.

The following Table 2 shows nonmetallic commodities produced, by county, as reported by the State Inspector of Mines annual reports for the period 1952-64. It seems obvious that not all production was reported.

In this Circular, commodities are listed alphabetically, not in order of their value. Most metals are cited by their chemical symbol; most nonmetals are named in full, not abbreviated.

List of Commodities Cited With Symbols or Abbreviations

Ag—Silver	Marble	Stone (see Building Stone)
Agate	Meerschaum	Sulfur
Alabaster "onyx"	Mica	Ta—Tantalum
Alum	Mn—Manganese	Talc
As—Arsenic	Mo—Molybdenum	Te—Tellurium
Au—Gold	Monazite	Th—Thorium
Ba—Barite	Moonstone	Travertine
Bastnaesite	Ni—Nickel	Tur.—Turquois
Be—Beryllium	Ocher	U—Uranium
Bi—Bismuth	Optical Calcite	V—Vanadium
Building Stone (see Stone)	Pb—Lead	W—Tungsten
Carnelian	Peridot	Zn—Zinc
Cb—Columbium	Perlite	NOT CITED:
Cinders (see Scoria)	Potash	Ballast
Clay	Pt (?) —Platinum reported	Brucite
Co—Cobalt	•Pumice	Cadmium
Coal	Quartz	Caliche
Cu—Copper	R.E.—Rare Earths	Diatomite
F—Fluorspar	Ricolite	Dolomite
Fe—Iron	Salt	Drilling Mud
Fire Clay	Sand and Gravel	Flagstone
Garnet	Sb—Antimony	Limestone
Guano	•Scoria (see also Cinders)	Magnesite
Gypsum	Se—Selenium	Nitrates
Jarosite	Sillimanite	Salines other than Salt
Kyanite	Sn—Tin	Shale
Li—Lithium	Specimens	Titanium
Lime	Spurrite	Most gem materials

*Scoria has been reported as pumice in some cases.

Abbreviations for Credits

BLM—U.S. Bureau of Land Management

BMR—New Mexico Bureau of Mines and Mineral Resources

SAN—Stuart A. Northrop

SIM—State Inspector of Mines

Acknowledgments

The authors acknowledge the cooperation of William H. Hays, State Inspector of Mines, Albuquerque, the personnel of the Bureau of Land Management, Santa Fe, and Alvin J. Thompson, Director of the State Bureau of Mines and Mineral Resources, Socorro. Frank E. Kottlowski, Assistant Director, Robert H. Weber, and Robert Bieberman of the Bureau, read most of the manuscript and offered helpful suggestions.

The Bureau of Land Management and the State In-

spector of Mines wish to emphasize that names of districts are those listed by claimants and producers. Neither office has designated districts. Nor has the State Bureau of Mines and Mineral Resources any authority to insist that a district bear a particular name.

The authors of this circular, however, believe that the time has come to recommend some measure of standardization or stabilization and we offer this study as a guideline for future designation of districts.

TABLE 2. NONMETALS OTHER THAN COAL PRODUCED BY COUNTY, REPORTED BY
THE STATE INSPECTOR OF MINES, ANNUAL REPORTS, 1952-1964

	Bernalillo	Catron	Chaves	Colfax	Curry	De Baca	Dona Ana	Eddy	Grant	Guadalupe	Harding	Hidalgo	Lea	Lincoln	Los Alamos	Luna	McKinley	Mora	Otero	Quay	Rio Arriba	Roosevelt	Sandoval	San Juan	San Miguel	Santa Fe	Sierra	Socorro	Taos	Torrance	Union	Valencia	
Ballast	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Barite																											X		X				
Brick & Tile	X						X										X								X	X							
Building Stone									X																X	X						X	
Caliche	X		X		X	X	X	X	X		X		X	X					X			X		X	X	X	X	X	X				
Clay	X																																
Diatomaceous Earth																					X												
Dolomite & Limestone	X								X					X			X							X	X							X	
Drilling Mud			X														X																
Fire Clay	X						X				X					X	X											X					
Flagstone																X					X			X	X								
Fluorspar							X		X					X		X					X						X					X	
Gravel				X	X		X		X		X						X			X		X					X		X	X			
Gypsum	X							X					X										X		X								
Mica																					X				X	X			X			X	
Perlite									X			X															X	X				X	
Potash								X					X																				
Pumice											X										X		X			X							X
Quartz	X																				X					X							
Salt		X						X					X																				
Sand																				X		X											
Sand & Gravel	X	X	X			X	X	X	X		X	X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Scoria	X						X		X					X			X				X		X			X					X	X	
Shale	X																X																

County, Township, and Range Locations of New Mexico Mining Districts

A district name accepted by us is printed in large caps, thus: MOGOLLON DISTRICT, followed by subdistricts, camps, and other synonyms. This is followed by township and range and a listing of commodities.

Other names are entered alphabetically thus: ALMA

Bernalillo County

ALBUQUERQUE = Not a district. Junio mine, 15 miles west of Albuquerque, T. 9 N., R. 1 W. Abandoned (SIM). U.

BERNALILLO = Placitas District (Sandoval-Bernalillo). See under Sandoval County. The town of Bernalillo is in Sandoval County, but the Clason (1911) map shows the Bernalillo "district" in Bernalillo County (SAN).

CARNUEL = Tijeras Canyon District (SAN). T. 10 N., R. 5 E. (BLM).

COYOTE = Tijeras Canyon District (SAN).

COYOTE BASIN = Tijeras Canyon District. In 1906, the Coyote Basin "district" was distinguished from the Coyote Canyon "district". Coyote Basin was located 6 miles north of Hell Canyon and 16 miles from Albuquerque, whereas the Coyote Canyon district was said to be only 14 miles east of Albuquerque (SAN).

COYOTE CANYON = Tijeras Canyon District (SAN).

COYOTE SPRINGS = Tijeras Canyon District (SAN). T. 9 N., R. 4, 4½, 5 E. (BLM).

HELL (S) CANYON = Tijeras Canyon District (SAN). Hell Canyon = T. 8 N., R. 5 E. (BLM).

ISLETA RESERVATION = Tijeras Canyon District (SAN). T. 8 N., R. 5 E. (SIM). Stone.

JUAN TABO PROSPECTS = Placitas District (Sandoval-Bernalillo) (SAN).

LA LUZ, LA LUZ MINE = Placitas District (Sandoval-Bernalillo). Located ¾ mile south of the Bernalillo county line. Some early accounts assigned this mine to the Tijeras Canyon District (SAN).

MANZANITA MOUNTAINS = Tijeras Canyon District, chiefly. These mountains lie south of Tijeras Canyon, between the Sandia and Manzano mountains (SAN).

MANZANO MOUNTAINS. See under Torrance County.

NORTH MANZANO = Tijeras Canyon District. North Manzano refers to the North Manzano Mountains. Star Canyon and Hell Canyon, especially (BMR).

PLACITAS DISTRICT. See under Sandoval County.

RIO PUERCO COAL FIELD from T. 9 N., R. 1, 2 W. runs northeast to T. 14 N., R. 1 E. (Bernalillo-Sandoval) (SAN). Erroneously called Una del Gato field on New Mexico Energy Resources map (1958) (BMR). Coal.

(large and small caps) = Mogollon District.

The words *district*, *mine*, and *prospect* are generally not capitalized. We have, however, used District, Mine, and Prospect (capitalized) as proper names for entry items in the listing by counties.

SANDIA = Tijeras Canyon District (at least in part), plus Placitas District (Sandoval-Bernalillo) (SAN).

SANDIA OR PLACITAS = Placitas District (Sandoval-Bernalillo) (SAN). T. 11 N., R. 5 E. (BLM).

SANDIA MOUNTAINS = Tijeras Canyon District and/or Placitas District (Sandoval-Bernalillo) (SAN).

SANDIA-NORTH MANZANO PROSPECT REGION. See Placitas District (Sandoval-Bernalillo) and Tijeras Canyon District (Bernalillo).

SODA SPRINGS = Tijeras Canyon District (SAN).

STAR, STAR CANYON = Tijeras Canyon District (SAN). T. 8 N., R. 5 E. (BLM).

TIJERAS = Tijeras Canyon District (BMR).

TIJERAS CANYON DISTRICT=Carnuel=Coyote = Coyote Basin = Coyote Canyon = Coyote Springs = Hell Canyon = Hells Canyon = Isleta Reservation = Manzanita Mountains = North Manzano = Sandia (in part) = Sandia Mountains = Soda Springs = Star = Star Canyon = Tijeras = T. 8, 9, 10 N., R. 4, 5, 6 E. A large district, formerly subdivided into several subdistricts; it extends southward from Tijeras Canyon through the Manzanita and into the Manzano mountains. There are several mines and numerous prospects in T. 8, 9, 10 N., R. 5 E. (SAN). T. 10 N., R. 5 E. (SIM). Ag, Au, Ba, Cu, F, Pb, Stone.

TIJERAS COAL FIELD, BASIN. T. 11 N., R. 6 E. between the Tijeras Canyon District and the Placitas District (SAN). Coal.

Catron County

ALMA = Mogollon District (SAN).

BLACK RANGE = Taylor Creek District (SAN). T. 11 S., R. 9 W. (SIM). Sn.

CHLORIDE DISTRICT. The north end of the Chloride District is in Catron County. See under Sierra County (SAN).

COONEY = Mogollon District (T. 10, 11 S., R. 19 W.). Formerly Cooney and Mogollon were regarded as separate districts (SAN). "Cooney" = T. 10, 11 S., R. 19 W. (BLM). T. 10 S., R. 19 W. (SIM).

CRATER SALT LAKE = Quemado Salt District (SAN).

DATIL = McPhaul Ranch Uranium Prospects (BMR). Sec. 19, T. 2 N., R. 10 W. (SIM). U.

DATIL MOUNTAIN COAL FIELD. Principally in south-central Valencia and northwestern Socorro County. (Catron-Socorro-Valencia) (SAN). Coal.

FLUORINE (Catron-Sierra). *See* under Sierra County.
 GALLUP-ZUNI COAL BASIN. *See* under McKinley County.
 GLENWOOD = Mogollon District.
 MCPHAUL RANCH URANIUM PROSPECTS. T. 2 N., R. 10, 11 W. East of Quemado and northwest of Datil (SAN). U.
 MOGOLLON DISTRICT = Alma = Cooney = Glenwood = Mogollon Mountains. T. 10, 11 S., R. 19 W. (SAN). Ag, Au, Cu, F, Pb, U.
 MOGOLLON MOUNTAINS = Mogollon District (SAN).
 QUEMADO = Quemado Salt District.
 QUEMADO SALT DISTRICT = Crater Salt Lake = Zuni Crater Salt Lake = Zuni Salt Lake. T. 3 N., R. 18, 19 W. (SIM). Active (SIM). Salt.
 TAYLOR CREEK DISTRICT = Black Range = Taylor Creek Tin. T. 8, 9, 10, 11, 12 S., R. 10, 11, 12 W. A very large district extending into Sierra County (SAN). T. 9 S., R. 10 W.; T. 9 S., R. 11 W.; T. 10 S., R. 10 W.; and T. 10 S., R. 11 W. "Taylor Creek (Black Range)" (SIM). Sn.
 TAYLOR CREEK TIN = Taylor Creek District (BMR).
 TELLURIM = Wilcox District (SAN).
 WILCOX DISTRICT = Sacaton Mesa (Grant) (in part) = Tellurium = Wilcox Prospect Region. T. 12 S., R. 18 W. (BLM). Southeast of Glenwood (SAN). Au, Bi, F, Te.
 WILCOX PROSPECT REGION = Wilcox District, astride the Grant-Catron county line on southwest side of Mogollon Mountains (BMR).
 ZUNI COAL FIELD = Gallup-Zuni Coal Basin. (*See* under McKinley County). In southwestern Valencia and northwestern Catron counties (SAN). Coal.
 ZUNI CRATER SALT LAKE, Zuni Salt Lake = Quemado Salt District (SAN).

Chaves County

No mining districts. Quartz crystals known as Pecos "diamonds". Subsurface salt. Subsurface potash in southeast corner. Shale in Blanco pit east of Roswell. Sand and gravel. Stone quarries east of Roswell. Gypsum. Ballast. Caliche. Drilling mud.

Colfax County

AZTEC = Baldy District (SAN).
 BALDY DISTRICT = Aztec = Baldy Mountain = Cimarron (in part) = Copper Park = Eagle Nest = Maxwell's = Mount Baldy = Old Baldy Mountains = Ute Creek = Virginia City = Willow Creek. T. 27, 28 N., R. 16, 17 E. East of Elizabethtown; overlaps Elizabethtown District. (SAN). Ag, Au, Cu, Mo, Pb, Te, W.
 BALDY MOUNTAIN = Baldy District (SAN).
 BLOSSBURG OR RATON (RESTRICTED) DISTRICT = Brilliant = Gardner = Swastika. T. 31 N., R. 22, 23 E. (SAN). *See* also Raton Coal Field or Region. Coal.

BONITO = Cimarroncito District (SAN).
 BRILLIANT = Blossburg District. T. 31 N., R. 22, 23 E. (SAN). Coal.
 CIMARRON = Baldy and Elizabethtown districts; used in 1867.
 CIMARRON CANYON = Cimarroncito District. Not to be confused with the Cimarron River of eastern Colfax County and Union County (SAN).
 CIMARRONCITO DISTRICT = Bonito = Cimarron Canyon = Uraca = Urraca = Urraca Creek. T. 26 N., R. 17 E. About 14 miles east-southeast of Elizabethtown; 7 miles east of the south end of Eagle Nest Lake; and about 4½ miles south of Cimarron Canyon (SAN). Ag (?), Au, Cu.
 CIMARRON FIELD. Refers to southwestern part of the Raton Coal Region (BMR). (SIM refers to Esperanza coal mine active in this district in 1951). Coal.
 COPPER PARK = Baldy District (SAN).
 DAWSON-STAG CANYON DISTRICT = Stag Canyon = T. 28, 29 N., R. 20, 21 E. (SAN). Coal.
 EAGLE NEST = Baldy and/or Elizabethtown District (SAN).
 ELIZABETHTOWN-BALDY = Two distinct districts (BMR). *See* Eagle Nest.
 ELIZABETHTOWN DISTRICT = Cimarron (in part) = Eagle Nest = E-Town = Hematite = Iron Mountain = Moreno = Moreno Creek = Moreno Valley = West Moreno. T. 27, 28 N., R. 15, 16 E. Overlaps Baldy District (SAN). Ag, Au, Fe.
 E-TOWN = Elizabethtown District (SAN).
 GARDNER = Blossburg District (BMR). Coal.
 HEMATITE = Elizabethtown District (SAN). Sec. 4, 9, 10, 15, 16, 21, T. 28 N., R. 15 E.
 IRON MOUNTAIN = Elizabethtown District (SAN).
 JOHNSON MESA = Yankee-Sugarite-Johnson Mesa District (BMR). (SAN). Coal.
 KOEHLER DISTRICT = Raton Coal Field. T. 29 N., R. 21, 22 E. (SIM). Coal.
 MAXWELL LAND GRANT MINING DISTRICTS NOS. 1, 2, 3, AND 4. An old map thus entitled shows the following districts: Moreno District No. 1, Willow Creek District (should be No. 2), Ute Creek District No. 3, and Ponil District No. 4.
 MAXWELL'S = Baldy District (SAN).
 MORENO No. 1 = Elizabethtown District. Chiefly sec. 27, 28, T. 28 N., R. 16 E.
 MORENO CREEK, MORENO VALLEY = Elizabethtown District (SAN).
 MOUNT BALDY = Baldy District (SAN).
 OLD BALDY MOUNTAINS = Baldy District (SAN).
 PONIL DISTRICT. Chiefly sec. 13, 14, 15, 22, 23, 24, 25, 26, T. 28 N., R. 16 E. Northeast of Elizabethtown (SAN). Au.
 RATON. *See* Raton Coal Field and Raton District.
 RATON = Koehler District = T. 29 N., R. 22 E. (SIM). Coal.
 RATON COAL FIELD OR REGION. Includes following districts: Blossburg or Raton (restricted), Brilliant-Swastika-Gardner T. 31 N., R. 22, 23 E.;

Dawson-Stag Canyon T. 28, 29 N., R. 20, 21 E.; Koehler T. 29 N., R. 21, 22 E.; Willow-Van Houten T. 29, 30 N., R. 22 E.; Yankee-Sugarite-Johnson Mesa T. 31, 32 N., R. 24, 25 E.; York Canyon-Vermejo Park T. 31 N., R. 18, 19 E. Raton in a restricted sense = Blossburg, etc. (SAN). Coal.

RATON DISTRICT (RESTRICTED SENSE). Has been applied to Blossburg, Brilliant, Gardner, Swastika. See Blossburg District (SAN). Coal.

STAG CANYON = Dawson-Stag Canyon District (BMR). Coal.

SUGARITE = Yankee-Sugarite-Johnson Mesa District (BMR). Coal.

SWASTIKA = Blossburg District (BMR). Coal.

URACA, URACA CREEK = Cimarroncito District (SAN).

URRACA, URRACA CREEK = Cimarroncito District (SAN).

UTE CREEK = Baldy District (SAN). Chiefly sec. 35, 36, T. 28 N., R. 16 E. and sec. 31, T. 28 N., R. 17 E.

VAN HOUTEN = Willow-Van Houten District (BMR). Coal.

VERMEJO PARK = York Canyon-Vermejo Park District (BMR).

VIRGINIA CITY = Baldy District.

WEST MORENO = Elizabethtown District (SAN). Sec. 27, 34, T. 28 N., R. 15 E.

WILLOW CREEK = Baldy District or an eastward extension of this district (SAN). T. 27, 28 N., R. 16 E. (BMR). Chiefly sec. 31, 32, 33, 34, T. 28 N., R. 16 E. and sec. 3, 4, 5, 6, T. 27 N., R. 16 E. According to Raymond (1870) this district was near Virginia City. Sixty-three men were working in the district in 1869. Included Willow Gulch, Baltimore Flat, Grouse Gulch, and Humbug Gulch. Willow Gulch starts on the western slope of Baldy Mountain.

WILLOW-VAN HOUTEN DISTRICT = Van Houten. T. 29, 30 N., R. 22 E. (SAN). Coal.

YANKEE-SUGARITE-JOHNSON MESA DISTRICT = Johnson Mesa = Sugarite. T. 31, 32 N., R. 24, 25 E. (SAN). Coal.

YORK CANYON-VERMEJO PARK DISTRICT = Vermejo Park. T. 31 N., R. 18, 19 E. (SAN). T. 31 N., R. 19 E. (SIM). Coal.

Curry County

No mining districts. Subsurface salt. Extensive deposits of caliche. Sand and gravel. Ballast.

The Asco mine, assigned to Curry County in Circular 77, is in San Miguel County. The company's office was located in Clovis.

De Baca County

No mining districts. Quartz crystals known as Pecos "diamonds". Subsurface salt. Sand and gravel. Ballast. Caliche. Gypsum.

Dona Ana County

ADEN-AFTA (SIC) AREA = Aden District. Aden is in

T. 25 S., R. 3 W. (U.S. Bur. Mines). Afton is in T. 26 S., R. 1 W. (BMR). Scoria.

ADEN DISTRICT. T. 25 S., R. 3 W. (SIM). See Aden-Afta Area. Scoria.

BEAR CANYON DISTRICT = San Agustin = San Agustin = San Augustine. T. 20 S., R. 5 E. (SAN). Ba, Pb, V.

BISHOP GAP FLUORSPAR PROSPECT. T. 24 S., R. 3 E. Southeast of Tortugas Mountains District. Also known as Bishop's Gap. (SAN). F, U.

BISHOP'S GAP = variant of Bishop Cap. Guano reported from here may have come from Beasley Cave in sec. 19, T. 24 S., R. 4 E. (SAN).

BLACK MOUNTAIN-GOLD CAMP = either Black Mountain No. 1 District or Gold Camp District. Ag, Au, Bi, Cu, Pb, Zn.

BLACK MOUNTAIN NO. 1 DISTRICT = Black Mountain (in part) = Kent = Organ (in part) = San Agustin = San Agustin = San Augustine. T. 21 S., R. 4 E. (SAN). To avoid confusing the two Black Mountains in this county, we are designating the older Black Mountain District as No. 1 and the newer one as No. 2. Black Mountain No. 1 and Gold Camp: Ag, Au, Ba, Bi, Cu, F, Pb, Zn.

BLACK MOUNTAIN NO. 2 DISTRICT. T. 26 S., R. 1 E. (SIM). Scoria.

BRICKLAND DISTRICT. T. 29 S., R. 4 E. (BLM). Clay.

CAPITOL PEAK PROSPECT AREA = San Andres Canyon District.

CERRO DE MULEROS PROSPECTS. Near El Paso, Texas in T. 29 S., R. 4 E. (SAN).

DEVILS CANYON MINE = South Canyon District. Sec. 33, T. 23 S., R. 4 E. at the head of Target Range Canyon (SAN).

DONA ANA = Dona Ana Mountains District (BMR).

DONA ANA MOUNTAINS DISTRICT. T. 21 S., R. 1, 2 E. Prospects (SAN). Ag, Au.

EDDY SODA PROSPECT. Sec. 33, T. 18 S., R. 5 E. (SAN).

FEDERAL DISTRICT. T. 23 S., R. 2 E. Isolated deposit (SIM). Sand and Gravel.

FRANKLIN MOUNTAINS. T. 23 S., R. 2 E. = Northern Franklin Mountains District (SAN).

GOLD CAMP DISTRICT = Organ (in part) = San Agustin = San Agustin = San Augustine. Chiefly in the east-central part of T. 21 S., R. 4 E. Sometimes considered a subdistrict of the Organ District. See Black Mountain No. 1 District (SAN).

HATCH = Rincon District (BMR).

HEMBRILLO CANYON = Hembrillo District (BMR).

HEMBRILLO DISTRICT = Hembrillo Canyon = Membrillo = San Andreas Mountains (in part) = San Andres Mountains (in part). In 1901, this district was said to be located in T. 18 S., R. 4 E. (BLM). However, according to Dunham (1935), Hembrillo is T. 16 S., R. 3 E.; San Andrecito is T. 17 S., R. 4 E.; and San Andres Canyon is T. 18 S., R. 4 E. Thus, the old "Hembrillo district" may have included all three of these districts. It should be

- noted that talc mines are shown in sec. 12, T. 16 S., R. 3 E. (in Dona Ana County) and in sec. 1 (in Socorro—now Sierra—County) on the Kaylor Mountain quad. map (SAN). Ba, Cu, Talc.
- HILLSBOROUGH** = Hillsboro District of Sierra County (BMR). The name appears as Hillsborough in Burchard's 1883 Mint Director's Report. Sierra County was formed in 1884.
- IRON HILL DISTRICT** = Robledo Mountain = Robledo Mountains. Sec. 16, T. 22 S., R. 1 W. (SAN). Fe.
- JARILLA**. This probably is Jarilla of Otero County, which = Orogrande District (BMR). The reference to "Jarilla District" was made in the 1883 Mint Director's Report. Otero County was formed and took in part of Dona Ana in 1899.
- KENT** = Black Mountain No. 1 District (SAN).
- LA CUEVA** = Modoc District. There are several places by this name, e.g., one in the Jemez region (Sandoval County) (SAN).
- MEMBRILLO** = Hembrillo District. "Membrillo" is shown on several early maps (SAN).
- MINERAL HILL** = Organ District (SAN).
- MODOC DISTRICT** = La Cueva = Organ District (in part). Mines in sec. 25, T. 22 S., R. 3 E.; sec. 31, T. 22 S., R. 4 E., and sec. 1, T. 23 S., R. 3 E. (SAN). F, Pb.
- NORTHERN FRANKLIN MOUNTAINS DISTRICT** = Franklin Mountains. T. 25, 26 S., R. 4 E. (SAN). F, Gypsum, Jarosite (for paint), Pb.
- ORGAN DISTRICT** = Mineral Hill = Organ Mountain = Organ Mountains = San Agustin = San Augustin = San Augustine = Soledad Canyon Prospects = South Canyon. In a broad sense included: Black Mountain, Gold Camp, Modoc, and Texas. In a restricted sense, in T. 21, 22 S., R. 3, 4 E. (SAN). Organ Mountain is T. 21, 22, 23 S., R. 5 E. (BLM); T. 22 S., R. 3 E. (SIM). Ag, Au, Ba, Bi, Cu, F, Mo, Pb, Te, W, Zn.
- ORGAN MOUNTAINS** = Organ District and several others. Sometimes applied also to the San Augustin (San Augustine) Mountains north of Organ and San Augustin Pass (SAN). T. 21, 22, 23 S., R. 3, 4, 5 E. (BLM).
- PICACHO MOUNTAIN**. Northwest corner of T. 23 S., R. 1 E., about 5 miles west of Las Cruces; southeast of Iron Hill District. (SAN). Sand and Gravel, Scoria.
- PITTSBURG**. See under Sierra County (BMR).
- PITTSBURG (RINCON)** = Rincon District.
- POTRILLO MOUNTAINS DISTRICT** = East Potrillo Mountains = Potrillo Mountains. In the East Potrillo Mountains, T. 28 S., R. 2 W. (SAN). Ba, Marble (?), Pb.
- RINCON DISTRICT** = Hatch = Rincon = Rincon Manganese = Woolfer Canyon. Chiefly in T. 18, 19 S., R. 2 W. T. 19 S., R. 2 W. (BLM). The Velarde fluorspar prospect is in sec. 4, T. 18 S., R. 3 W. (SAN). Ba, F, Mn, W.
- RINCON MANGANESE** = Rincon District (BMR).
- ROBLEDO MOUNTAINS** = Iron Hill District (SAN).
- SAN AGUSTIN**. See San Augustin (more general usage) (SAN).
- SAN ANDREAS**. See under Sierra County (BMR).
- SAN ANDRECITO DISTRICT** = Hembrillo District (in part) = San Andreas Mountains (in part) = San Andres Mountains (in part). One mine, at least, is located in sec. 31, T. 17 S., R. 4 E. This district has been combined by some writers with the Hembrillo District (SAN). Cu.
- SAN ANDRECITO-HEMBRILLO** = San Andrecito and Hembrillo districts (BMR).
- SAN ANDRES CANYON DISTRICT** = Capitol Peak Prospect Area = Hembrillo (in part) = San Andreas Mountains (in part) = San Andres Mountains (in part). The San Andres mine is in sec. 18, T. 18 S., R. 4 E. (SAN). Ba, Pb.
- SAN ANDRES MOUNTAINS**. See under Sierra County.
- SAN AGUSTIN, SAN AGUSTIN, SAN AUGUSTINE** = Organ District, at San Augustin Pass, and possibly also the Bear Canyon, Black Mountain, and Gold Camp districts, in part. The San Augustin Mountains extend north-northeastward from the Pass (SAN).
- SAN DIEGO MOUNTAINS** = Tonuco Mountain District (SAN). T. 20 S., R. 1 W. (BLM).
- SANTO TOMAS MINE** = sec. 6, T. 25 S., R. 2 E. and sec. 31, T. 24 S., R. 2 E. (SIM). Not a district. South of Las Cruces. Scoria.
- SOLEDAD CANYON PROSPECT REGION** = sec. 21, T. 23 S., R. 4 E. = South Canyon = Organ District.
- SOUTH CANYON DISTRICT** = Soledad Canyon Prospect Region. Sec. 21, 33, 35, T. 23 S., R. 4 E. See Devils Canyon mine (SAN). Sometimes included in Organ District. Mn.
- TEXAS CANYON, TEXAS CREEK** = Texas District (SAN).
- TEXAS DISTRICT** = Organ (in part) = Texas Canyon = Texas Creek. Chiefly in sec. 34, 35, T. 22 S., R. 4 E., southeast of the Organ District (SAN). Ag, Au.
- TONUCO MOUNTAIN DISTRICT** = San Diego Mountains. T. 19, 20, S., R. 1 W. (BMR). Sec. 31, T. 19 S., R. 1 W. and in sec. 6, T. 20 S., R. 1 W. (SAN). Ba, F.
- TORTUGAS MOUNTAIN DISTRICT** = sec. 24, T. 23 S., R. 2 E. (SAN). F.
- WOOLFER CANYON** = Rincon District (SAN).

Eddy County

- ARTESIA AREA**. Not a district (SIM). Sand and Gravel.
- CARLSBAD** = Carlsbad Potash District = I.M.C.—T. 22 S., R. 29 E. (SIM). Nash Draw—T. 22 S., R. 30 E. (SIM). P.C.A.—T. 20 S., R. 30 E. (SIM). Southwest Potash—T. 19 S., R. 30 E. (SIM). Saunders—T. 20 S., R. 30 E. (SIM). U.S. Potash Shaft No. 1 and 3—T. 20 S., R. 30 E. (SIM); T. 21, S., R. 31 E. (SIM).

T. 20 S., R. 30 E. (SIM). Wills-Weaver-T. 18 S., R. 30 E. (SIM). Lea County National-T. 20 S., R. 32 E. (SIM).
CARLSBAD POTASH DISTRICT = Carlsbad. A large district, chiefly T. 19, 20, 21, 22 S., R. 29, 30, 31, 32 E. Extends into Lea County (SAN). T. 20 S., R. 29 E. (SIM). Potash, Salt.
LECHUGUILLA CLAIMS. See under McKittrick Caves (SIM). Isolated.
McKITTRICK CAVES = Lechuguilla Claims, west of Carlsbad, T. 22 S., R. 24 E. (SIM). Not a district. Specimens.

Grant County

ALHAMBRA = Black Hawk District (SAN).
ALUM = Alum Mountain District (SAN).
ALUMINA = Alum Mountain District (SAN). T. 13 S., R. 13, 14 W. (BLM).
ALUM MOUNTAIN DISTRICT=Alum=Alumina = Alunogen=Gila River=Upper Gila. T. 13 S., R. 13 W. Alum Mountain itself is about 7 miles north of the site of Meerschaum (SAN) Alum.
ALUNOGEN = Alum Mountain = Alum Mountain District (SAN). T. 14 S., R. 13 W. (BLM).
ANDERSON = Telegraph District (SAN). T. 17, 18 S., R. 17 W.
ANDERSON OR RICOLITE (RICOLITE). T. 18 S., R. 17 W. (BLM). Anderson = Telegraph District, is sometimes separated from Ricolite District (SAN). T. 17, 18 S., R. 17 W. (SAN).
ANDERSON PROSPECT REGION (Grant). T. 18 S., R. 17 W. = Telegraph District.
ASH CREEK PROSPECT REGION = Telegraph District (BMR). T. 18 S., R. 18 W. (BMR). Also known as Ricolite area. It is believed Clarks Peak District mentioned by Jones in 1904 is included in "Ash Creek". 1 mile north of Red Rock.
BALD MOUNTAIN = Burro Mountains District = T. 19 S., R. 15 W. (BLM).
BAYARD = Central District (SAN). Cu, Pb, Zn.
BEAR CREEK = Juniper District (SAN).
BEAR MOUNTAIN = Fleming District (SAN). T. 17 S., R. 15 W. (BLM).
BIG BURRO MOUNTAIN = Burro Mountains District (SAN).
BIRCHVILLE = Pinos Altos District (SAN).
BLACK HAWK DISTRICT=Alhambra=Bullard=Bullard Peak = Bullard's Cone, Bullard's Peak = Burro Mountain area (in part) = Little Bear Canyon. Chiefly, T. 18 S., R. 16 W., but also T. 19 S., R. 16, 17 W., west of Silver City and northwest of Tyrone in Black Hawk Canyon; near Bullard's Cone (or Peak) (SAN). Ag, Co, Ni, U, W.
BLACK MOUNTAIN = Steeple Rock District (SAN).
BOSTON HILL = Silver City District (SAN). Active (SIM).
BOUND RANCH DISTRICT = Farewell Mountain =Soldiers' Farewell Mountain. East of Lordsburg in

T. 22, 23 S., R. 15, 16 W. (BMR). Au, F, Perlite, U, W.
BULLARD = Black Hawk District (BMR).
BULLARD PEAK = Black Hawk District (BMR).
BULLARD'S CONE = Bullard's Peak = Black Hawk District (SAN). T. 18 S., R. 16 W. (BLM).
BURRO MOUNTAIN-GOLD GULCH = Burro Mountains District or Malone District. Gold Gulch Placers located in sec. 21, 22, T. 20 S., R. 16 W.
BURRO MOUNTAINS DISTRICT = Bald Mountain = Big Burro Mountain = Burro Mountain = Burro Mountain-Gold Gulch = Burro Peak = California Gulch = Cow Spring = Cow Springs = Iron Gulch = Leopold = Little Burro Mountains = Oak Grove = Oak Grove Camp = Paschal = Redrock Canyon = St. Louis Canyon = Sulphuret City = Tyrone = West Burro Mountains. In the vicinity of Tyrone. Numerous mines are shown on the Big Burro Mountains quad. and Wind Mountain quad. maps. T. 19 S., R. 14, 15 W. (BMR). There are several molybdenum prospects west of this district in T. 19 S., R. 16 W. (SAN). T. 19 S., R. 16 W. (SIM). T. 19 S., R. 14, 15, 16 W. (BLM). Ag, Au, Cu, F, Mo, Te, Tur., U.
BURRO MOUNTAINS-TYRONE AREA = Burro Mountains District (BMR).
BURRO PEAK = Burro Mountains District (BMR).
BUZZARD CANYON = Wild Horse Mesa = Telegraph District (BMR).
CALIFORNIA GULCH (Fluorspar Deposit) T. 19 S., R. 15 W. = Burro Mountains District (BMR).
CAMP FLEMING = Fleming District (SAN).
CAMP FLEMING (Bear Mountain) = Fleming District (BMR).
CAMP MONARCH = Carpenter District.
CAPROCK = Cap Rock Mountain District (BMR).
CAP ROCK MOUNTAIN DISTRICT = Caprock = Cap Rock Mountain Manganese. T. 19 S., R. 18, 19 W. (SAN). Mn.
CAP ROCK MOUNTAIN MANGANESE = Cap Rock Mountain District.
CARLISLE = Steeple Rock District (SAN).
CARPENTER DISTRICT = Camp Monarch = Swarts = Swartz. T. 17 S., R. 9 W. (BLM). (SIM). Ag, Au, Pb, Zn.
CEDAR GROVE. A district reported by Mint Director's Report in 1883 as being "northeast of Eureka and about halfway between it and Victoria (sic) District".
CENTRAL DISTRICT = Bayard = Central City = Copper Flat = Fort Bayard = Vanadium. In a restricted sense, located around the common corner of T. 17, 18 S., R. 12, 13 W. The term *Central District* has also been applied in a broader sense to include the Fierro-Hanover, Fierro Manganese, Georgetown, and Santa Rita districts. Ag, Au, Cu, Pb, V, W, Zn.
CENTRAL = Central City, Hannover (sic) or Santa Rita = T. 17, 18 S., R. 12, 13 W. (BLM).

- CENTRAL CITY = Central + Fierro-Hanover + Santa Rita districts (SAN).
- CHLORIDE FLAT DISTRICT = Silver City (in part) = Silver Flat. West and northwest of Silver City in south-center T. 17 S., R. 14 W., and north-center T. 18 S., R. 14 W. (SAN). (BLM). Ag, Fe, Mn.
- CLARK'S PEAK = Ash Creek Prospect = Telegraph District (SAN). T. 18 S., R. 18 W. (BLM). *See also* Ash Creek Prospect Region.
- COOK'S PEAK = (in Grant County) Northern Cooks Range District. The Cooks Peak District itself is in Luna County.
- COPPER FLAT = Central District, or between the Central and Hanover districts; in SW $\frac{1}{4}$, T. 17 S., R. 12 W. (SAN).
- COW SPRING(s) = Burro Mountains District and, presumably, the White Signal District as well. In some old reports, the Cow Spring District is said to be located T. 20 S., R. 14, 15 W. and thus includes the White Signal District (chiefly T. 20 S., R. 15 W.). However, the settlement of Cow Spring itself is in T. 22 S., R. 13 W., Luna County. The Cow Spring Hills extend into T. 22 S., R. 12 W., Luna County. (SAN). T. 20 S., R. 14, 15 W. (BLM). Zalinski in 1907 listed the Chapman Turquoise mine as being in Cow Springs District, sec. 25, T. 21 S., R. 15 W., which is in the White Signal District.
- DORSEY = Juniper District (SAN).
- EUREKA DISTRICT = Hachita = Hatchita = Little Hatchet Mountains (in part) = T. 27, 28 S., R. 16 W. (BLM). Formerly included with the Sylvanite District in the old Hachita "district". Ag, Au, Cu, Pb, Tur., W, Zn.
- FAREWELL MOUNTAIN = Soldiers' Farewell Mountain = Bound Ranch District (BMR).
- FIERRO = Fierro-Hanover District = Central District. T. 17 S., R. 12 W. (SIM).
- FIERRO-HANOVER DISTRICT = Central City = Fierro = Hanover = Hanover-Fierro = Hanover Gulch = Ivanhoe. In a broad sense included in Central, Mimbres. In the center to north-center of T. 17 S., R. 12 W., (SAN). As, Cu, Fe, Mn, Pb, Zn.
- FIERRO MANGANESE DISTRICT = In a broad sense included in Central = NE $\frac{1}{4}$, T. 17 S., R. 12 W., about 2 miles northeast of Fierro (SAN). Mn.
- FLEMING DISTRICT = Bear Mountain = Camp Fleming = Redrock Canyon = Treasure Mountain. Chiefly in T. 17 S., R. 15 W. Mines and prospects are located in Fleming Canyon area, in sec. 25, 26, 27, 34, 36; there is also a group southeast of Bear Mountain, in sec. 13, 23, 24, T. 17 S., R. 15 W.; also in sec. 18, T. 17 S., R. 14 W. (SAN). Ag, F, Mn.
- FORT BAYARD = Central District (SAN).
- GEORGETOWN DISTRICT = Membres = Mimbres = San Lorenzo. In a broad sense included in Central. In the SE corner T. 16 S., R. 12 W. and the NW corner T. 17 S., R. 11 W. (SAN). Georgetown
- or Mimbres T. 17 S., R. 17 W. (error), T. 17 S., R. 11 & 12 W., T. 16 S., R. 12 W. (BLM). Ag.
- GILA = Gila Fluorspar District. SW corner T. 14 S., R. 16 W.
- GILA FLUORSPAR DISTRICT = Gila = Gila River = T. 14 S., R. 16 W. (SAN). F.
- GILA RIVER = Alum Mountain District or Gila Fluorspar District (SAN).
- GOLD GULCH PLACERS = Malone District or Burro Mountains District. Sec. 21, 22, T. 20 S., R. 16 W.
- GOLD HILL DISTRICT = Camp Bobcat = Langford Hills = Road Canyon = Separ. T. 21, 22 S., R. 16, 17 W. (BLM). Extends into Hidalgo County. Ag, Au, F, R.E., Ta.
- HACHITA. The term *Hachita District* included two districts: Eureka District (Grant) and Sylvanite District (Hidalgo). Eureka = T. 27, 28 S., R. 16 W. Sylvanite = T. 28, 29 S., R. 16 W. Bat cave which produces guano, located in T. 32 S., R. 16 W., is sometimes referred to as being in Hachita District but is southwest of the Big Hatchet Mountains District (SAN). Ag, Au, Cu, Pb, Sb, Te, W, Zn.
- HANOVER = Fierro-Hanover District = T. 17 S., R. 12 W. (BLM).
- HANOVER-FIERRO. *See* Fierro-Hanover District.
- HANOVER GULCH = Fierro-Hanover District (BMR).
- HATCHITA = Variant spelling of Hachita.
- HINES FLUORSPAR DEPOSIT = sec. 34, T. 21 S., R. 14 W., southeast of the White Signal District and northeast of the Bound Ranch District (SAN). F.
- IRON GULCH = Burro Mountains District. Sec. 24, T. 19 S., R. 16 W. = West Burro Mountains (BMR) = Burro Mountains District.
- IVANHOE = Hanover Gulch = Fierro-Hanover District (BMR). Specifically a town in 1883 in T. 17 S., R. 12 W. (BMR).
- JUNIPER DISTRICT = Bear Creek = Dorsey = Juniper Hill. Juniper Hill is in the SW $\frac{1}{4}$, T. 16 S., R. 14 W. Meerschaum deposits are in the east-center of T. 16 S., R. 15 W. (SAN). T. 16 S., R. 15 W. (BLM). Meerschaum.
- JUNIPER HILL = Juniper District.
- JUNIPER HILL PROSPECT REGION = Juniper District. T. 16 S., R. 15 W. (BMR).
- KIMBALL. *See* under Hidalgo County.
- KITHIL = White Signal District (SAN).
- KNIGHT PEAK AREA. Includes several districts. Extends from T. 19 S., R. 17 W. to T. 22 S., R. 14 W. (SAN).
- LANGFORD HILLS = Gold Hill District or a southeastward extension, in T. 22 S., R. 16 W. (BMR).
- LEOPOLD = Burro Mountains District (SAN).
- LITTLE BEAR CANYON, BULLARD PEAK = Black Hawk District (BMR).
- LITTLE BURRO MOUNTAINS = Burro Mountains District. The term "Little Burro Mountains" was generally applied to a range lying northeast of the Big Burro Mountains and separated from them by the

- Mangas Valley. In early days, a group of hills south of the Big Burro Mountains was sometimes called the Little Burro Mountains. Not to be confused with the Little Burros of Socorro County (SAN).
- LITTLE HATCHET MOUNTAINS = Eureka District (Grant) plus Sylvanite District (Hidalgo) (SAN).
- LONE MOUNTAIN DISTRICT = sec. 28, 33, 34, T. 18 S., R. 13 W., about 6 miles southeast of Silver City (SAN). T. 18 S., R. 13 W. (BLM). Ag, Fe, Mn, Pb.
- LONG LOST BROTHER FLUORSPAR PROSPECT. In sec. 14, T. 19 S., R. 17 W., southwest of Black Hawk District (SAN). F.
- MALONE DISTRICT. T. 20 S., R. 15, 16 W. (SAN). There are fluorspar prospects in sec. 10, 22, 29. See also Gold Gulch Placers. Ag, Au, F, Perlite.
- MANGAS CREEK, MANGAS SPRINGS = Telegraph District (SAN).
- MAYFLOWER-STEEPLE ROCK = Steeple Rock District (SAN). T. 16, 17 S., R. 21 W. and T. 17 S., R. 20 W. (BLM).
- MEERSCHAUM DISTRICT = Sapillo = Sapillo Creek. On Sapillo Creek, not far above its junction with Gila River. The site of the settlement of Meerschau is in the north-center T. 15 S., R. 13 W.; the mine is in the south-center T. 14 S., R. 13 W. (SAN). Meerschau.
- MEMBRES = Variant spelling of "Mimbres" (probably the Georgetown District) (SAN).
- MIMBRES = Georgetown District (in a restricted sense). Formerly used more broadly to include most of the Fierro-Hanover and Santa Rita districts. The Mimbres "district" was once located as T. 17 S., R. 11, 12 W. (SAN). T. 17 S., R. 11, 12 W.; T. 16 S., R. 12 W. (BLM).
- NEW MEXICO PRINCIPAL MERIDIAN T. 17 S., R. 12 W. (SIM). In some reports unassigned districts are given NMPM designation. See also "Unorganized Districts". This one is in the Central District.
- NORTHERN COOKS RANGE DISTRICT = Cooks Peak. The White Eagle mine is in sec. 34, and there are prospects in sec. 21, 28, T. 19 S., R. 9 W. (SAN). F.
- OAK GROVE = Burro Mountains District. The Oak Grove fluorspar deposit is in sec. 36, T. 19 S., R. 15 W. In some old reports, Oak Grove Camp or "district" probably referred to copper deposits northwest of here (SAN). F.
- PASCHAL = Burro Mountains District (SAN).
- PINO ALTO = Pinos Altos District (SAN).
- PINO ALTO MOUNTAINS = Pinos Altos District.
- PINOS ALTOS DISTRICT = Birchville = Pino Alto = Pino Alto Mountains = Pinos Altos Mountains = West Pinos Altos. Around the common corner of T. 16, 17 S., R. 13, 14 W., but chiefly in the northeast corner of T. 17 S., R. 14 W. Numerous mines and prospects are shown on maps in sec. 9, 16, 17, T. 17 S., R. 14 W., and in sec. 35, 36, T. 16 S., R. 14 W. (SAN). T. 16, 17, 18 S., R. 13, 14 W. (BLM). T. 17 S., R. 13 W. and T. 16 S., R. 14 W. (SIM). Ag, Au, Cu, Fe, Pb, Zn.
- PINOS ALTOS MOUNTAINS = Pinos Altos District (BMR).
- RABB CANYON PEGMATITES. In eastern Grant County, 2½ miles north of State Highway 180 near Noonday Canyon; west of Kingston and west of the crest of the Black Range at Emory Pass (BMR). Moonstone.
- RED ROCK = Telegraph District.
- REDROCK CANYON. Sec. 27, T. 18 S., R. 15 W. = Little Burro Mountains District (BMR) = Burro Mountains District (SAN). Building Stone and Clay.
- RICHOLITE (sic) OR ANDERSON = Telegraph District = T. 18 S., R. 17 W. Northrop separates the Ricolite and Telegraph (Anderson) districts (BMR).
- RICOLITE DISTRICT = Anderson = Ash Creek Prospect Region = Clarks Peak = Richolite = Telegraph. Ricolite deposit in sec. 16, T. 18 S., R. 18 W. Manganese at Black Eagle mine. T. 18 S., R. 17 W. = Telegraph District. Ricolite and Telegraph (Anderson) districts are separate (SAN). F, Mn, Ricolite.
- ROAD CANYON = Gold Hill District.
- SACATON MESA = Seventy-four Mountain District (Grant) and/or Wilcox District (Catron).
- SACATON MESA, WILCOX = Wilcox District (Catron).
- SADDLE MOUNTAIN = White Signal District.
- ST. LOUIS CANYON = Burro Mountains District.
- SAN JUAN = Santa Rita District. T. 17 (or 18?) S., R. 11 W. (SAN). T. 18 S., R. 11 W. (BLM).
- SAN LORENZO. Near Mimbres; also applied to the Georgetown District in early accounts (SAN).
- SANTA RITA (or Hanover) = Santa Rita District. T. 17 S., R. 12 W. (BLM). Active (SIM).
- SANTA RITA DISTRICT = San Juan. In a broad sense included in Central, Mimbres. Sometimes included in Hanover. T. 17, 18 S., R. 12 W. (SAN). Sometimes included other districts, such as Central (restricted), Hanover, and others. T. 17 S., R. 12 W. (BLM). Active (SIM). Ag, Au, Cu, Fe, Mo, Pb, Zn.
- SAPILLO, SAPILLO CREEK = Meerschau District (SAN).
- SEPAR = Gold Hill District.
- SEVENTY-FOUR MOUNTAIN DISTRICT = Sacaton Mesa (in part). Seventy-four Mountain itself is in Catron County, just north of the Grant-Catron line. Mines and prospects are in T. 13 S., R. 17, 18 W. (SAN). F.
- SHAKESPEARE = Lordsburg District (Hidalgo) (BMR).
- SILVER CITY DISTRICT = Boston Hill = Chloride Flat = Silver City Manganese. The Boston Hill mines and prospects are located between State Highway 180 and U.S. Highway 260, southwest of Silver City, in sec. 3, 9, 10, T. 18 S., R. 14 W. Formerly included also the Chloride Flat District (SAN). Active (SIM). Ag, Fe, Mn.

SILVER CITY MANGANESE = Silver City District (SAN).
SILVER FLAT = Chloride Flat District (SAN). T. 17,
18 S., R. 14 W. (BLM).

SOLDIERS' FAREWELL MOUNTAIN = Bound Ranch Dis-
trict.

STEEPLE ROCK DISTRICT = Black Mountain =
Carlisle = Mayflower = Twin Peak Mountain. T.
15, 16, 17 S., R. 20, 21 W. near the Arizona line
(SAN). T. 17 S., R. 21 W. (SIM). "Steeple Rock-
Mayflower" T. 16, 17 S., R. 21 W.; T. 17 S., R. 20
W. (BLM). Ag, Au, F, Pb, Zn.

SULPHURET CITY. "A few miles west of Paschal" =
Burro Mountains District.

SWARTS = Carpenter District (SAN).

SWARTZ = Carpenter District (SAN).

TELEGRAPH DISTRICT = Anderson = Anderson
Camp = Ash Creek (?) = Buzzard Canyon =
Clark's Peak = Mangas Creek = Mangas Springs =
Red Rock = Redrock = Ricolite = Telegraph
Camp = Wild Horse Mesa. T. 17, 18 S., R. 16, 17,
18 W. (SAN). T. 17 S., R. 17 W. (SIM). A large
district, embracing Telegraph Camp (which is
northwest of Black Hawk, about a mile west of Gila
River, and about midway between Cliff and Red
Rock) and Anderson Camp (on the east side of
Gila River, about 6 miles southeast of Telegraph)
(SAN). Ag, Cu, F, Mn; Pb and Zn in southward ex-
tension of District.

TREASURE MOUNTAIN = Fleming District (SAN).

TWIN PEAK MOUNTAIN = Steeple Rock District
(BMR).

TYRONE = Burro Mountains District (SAN).

TYRONE-BURRO PEAK = Burro Mountains District
(BMR).

UPPER GILA = Alum Mountain District, generally, in
early accounts (SAN).

VANADIUM = Central District (SAN).

WEST BURRO MOUNTAINS = Burro Mountains District
(BMR).

WEST PINOS ALTOS = Pinos Altos District.

WHITE SIGNAL DISTRICT = Cow Spring = Cow
Springs = Kithil = Saddle Mountain. T. 20, 21 S.,
R. 14, 15 W. (SAN). Chiefly T. 20 S., R. 14, 15 W.;
and small area in T. 20 S., R. 16 W. (SAN). T. 20
S., R. 15 W. (BLM). Ag, Au, Bi, Cu, F, Garnet,
Ocher, Pb, R.E., Ta, Tur., U, Zn.

WILD HORSE MESA = Telegraph District (BMR).

Guadalupe County

PASTINA. Probably a misspelling of Pastura District
(BMR).

PASTURA DISTRICT = Pastina (?) = Pintada =
Pintada Canyon = Pintados = San Ignacio. T. 7,
8 N., R. 19, 20 E. Northeast of Pastura and south-
west of Santa Rosa, in Pintada Canyon (SAN). Cu.

PINTADA, PINTADA CANYON = Pastura District (SAN).

PINTADOS. Variant of Pintada = Pastura District
(SAN).

SAN IGNACIO = Pastura District (SAN). T. 8 N., R.
19 E. (BLM).

Harding County

BUEYEROS PROSPECTS. Gold-quartz stringers west-north-
west of Bueyeros (SAN). Au.

GALLEGOS COPPER PROSPECTS. South of Gallegos, near
the Harding-San Miguel county line (SAN). Cu.

GALLEGOS PLACERS. North of Gallegos, on Ute Creek
(SAN). Au.

POLITA NO. 2 PROSPECT. T. 17 N., R. 29 E. Southwest
of Mosquero (BMR). U.

Hidalgo County

ANDERSON = Apache No. 2 District (SAN).

ANIMAS DISTRICT. The Animas mine is in sec.
15, T. 25 S., R. 19 W. between Animas and Lords-
burg (SAN). Antelope Pass District T. 27 S., R. 20
W. has been included sometimes in Animas District
(SAN). F.

ANTELOPE PASS DISTRICT. T. 27 S., R. 20 W.
(BLM). Has sometimes been included in the
Animas District (SAN). Ag, Au, F, Fire Clay, Mn
(W. E. Elston).

ANTELOPE WELLS PROSPECTS. Prospects in Alamo
Hueco and Whitewater Mountains (W. E. Elston).
T. 32 S., R. 16 W.; T. 34 S., R. 17 W. Guano, Mn,
U.

APACHE NO. 2 DISTRICT = Anderson. The
Apache and Chapo mines are in the southwest cor-
ner of T. 28 S., R. 14 W. (BLM). Ag, Au, Bi, Cu, W.

BIG HATCHET MOUNTAINS DISTRICT =
Hatchet Mountains. There are mines in sec. 22, 35,
36, T. 31 S., R. 15 W., and a prospect in sec. 5
(SAN). T. 31 S., R. 15 W. (BLM). Cu, Gypsum,
Pb, Zn.

BIG NINE FLUORSPAR PROSPECT. Southeast of the Steeple
Rock District, in T. 18 S., R. 20 W. (SAN). F.

CALIFORNIA = San Simon District (SAN).

CAMP BOBCAT = Gold Hill District (Grant) (BMR).

EUREKA (HACHITA) DISTRICT. T. 28 S., R. 18 W. in
Hidalgo County has been regarded as a westward ex-
tension of the Eureka District (Grant); also as a
southeastward extension of the Animas District
(SAN). Ag, Ba, Pb, Zn.

FREMONT DISTRICT. T. 28, 29 S., R. 13, 14 W.
About 15 miles southeast of Hachita, in the north-
western foothills of the Sierra Rica. The junction
of the Luna-Hidalgo county line and the Interna-
tional United States-Mexico boundary lies within
the district (SAN). T. 28 S., R. 14 W. (BLM).
Active, T. 29 S., R. 14 W. (SIM). Ag, Au, Cu, Pb,
U, V, Zn.

GILLESPIE = Red Hill District (SAN).

GOLD HILL DISTRICT. *See* under Grant County.

GRANITE GAP = San Simon District (SAN).

- GRANT = Lordsburg District. Grant was later changed to Shakespeare (SAN).
- HACHITA. *See* under Grant County.
- HATCHET MOUNTS (sic) OR BIG HATCHET MOUNTAINS. T. 31 S., R. 15 W. (BLM). *See* Big Hatchet Mountains District.
- HATCHITA. *See* under Grant County.
- HOGGETT FLUORSPAR PROSPECT. Sec. 31, 32, T. 29 S., R. 18 W., in the west foothills of the Animas Mountains. A manganese mill was reported to be in operation here in 1955. North of the Red Hill District. Has been assigned to the Animas District by some writers (SAN). F, Mn, W.
- KIMBALL = Steins Pass District. T. 23 S., R. 21 W. (BLM).
- KIMBALL AND SAN SIMON. Kimball = Steins Pass District. San Simon = a separate district (SAN).
- LEIDENDORF, LEIDENDORF CAMP = Lordsburg District.
- LEITENDORF CAMP. Variation of "Leidendorf" = Lordsburg District (SAN).
- LITTLE HATCHET MOUNTAINS. *See* under Grant County.
- LORDSBURG DISTRICT = Grant = Leidendorf = Leidendorf Camp = Leitendorf Camp = Pyramid = Pyramid Mountain (s) = Ralston = Shakespeare = Shakespere = Valedon = Virginia. T. 23, 24 S., R. 18, 19 W. (SAN). Active (SIM). Ag, Au, Cu, F, Pb, Perlite, Pumice.
- PELONCILLO MOUNTAINS. A range along the New Mexico-Arizona line. Includes the San Simon District (to the south) plus Steins Pass District (to the north) (SAN).
- PYRAMID. T. 23, 24 S., R. 18, 19 W. (BLM) = Lordsburg District = Lordsburg, Virginia, T. 23 S., R. 19 W. (SIM).
- PYRAMID (Lordsburg, Virginia). T. 23 S., R. 19 W. (SIM).
- PYRAMID MOUNTAIN (or Virginia). T. 24 S., R. 19 W. (SIM).
- RALSTON = Lordsburg District (SAN). Ralston was later named Shakespeare.
- RED HILL DISTRICT = Gillespie. T. 30, 31 S., R. 17, 18 W. In the Animas Mountains, about 30 miles southwest of Hachita and 22 miles south of Playas. The Red Hill mine is in sec. 30, T. 30 S., R. 17 W.; the Gillespie mine is in sec. 4, T. 31 S., R. 18 W. (SAN). Ag, Au, Cu, Pb.
- RED ROCK = westward extension of Cap Rock Mountain District (Grant). T. 19 S., R. 20 W. (BMR). Mn.
- SAN SIMON DISTRICT = California = Granite Gap = Peloncillo Mountains (in part) = Simon. T. 24, 25 S., R. 21 W. (SAN). On the western slope of the Peloncillo Mountains, extending from Steins Pass southward for 10 miles to Granite Gap. Mineral Mountain is in sec. 20; other mines and prospects in sec. 16, 17, 21, 29, 32, 33, T. 24 S., R. 21 W. Also in sec. 4, 5, T. 25 S., R. 21 W. (SAN). T. 24, 25, 26 S., R. 21 W. (BLM). T. 25 S., R. 21 W. and T. 25 S., R. 20 W. (SIM). Ag, As, Bastnaesite, Pb, R.E., W, Zn.
- SAN SIMON OR GRANITE GAP. T. 25, 26 S., R. 21 W. (BLM).
- SAN SIMON - STEINS PASS. Two separate districts (BMR).
- SHAKESPEARE, SHAKESPERE = Lordsburg District (SAN).
- SIMON = San Simon District. San Simon is T. 24, 25, 26 S., R. 21 W. (BMR).
- STEINS (Kimball) = Steins Pass District.
- STEINS PASS DISTRICT = Kimball = Peloncillo Mountains (in part) = Stein's = Steins Peak. T. 23, 24 S., R. 21 W. In the northern extension of the Peloncillo Mountains, close to the Arizona line, and north of Steins Pass Station. Mines in sec. 17, 20, 31, T. 23 S., R. 21 W. Prospects north of State Highway 14, just west of Steins Mountain, in sec. 6, 7, T. 24 S., R. 21 W. (SAN). Ag, Au, Cu, Pb.
- STEINS PASS-SAN SIMON = Steins Pass District. Steins Pass and San Simon, recognized as separate districts by Northrop, were combined into a single district by Anderson (BMR).
- STEINS PEAK = Steins Pass District (SAN).
- SYLVANITE DISTRICT = Hachita = Hatchita = Little Hatchet Mountains (in part). In T. 28, 29 S., R. 16 W. Formerly included with Eureka in the old Hachita "district" (SAN). Ag, As, Au, Cu, Pb, Sb, Te, W, Zn.
- VALEDON = Lordsburg District (SAN).
- VIRGINIA = Lordsburg District (SAN). T. 22, 23 S., R. 18, 19 W. (BLM).
- VIRGINIA (Lordsburg, Pyramid) = Lordsburg District. T. 23, 24 S., R. 19 W. (SIM).

Lea County

- ARTESIA AREA. Not a district (BMR). (Lea-Eddy) Isolated. Potash ? (SIM), Sand and Gravel.
- CARLSBAD. *See* under Carlsbad Potash District (Eddy) (BMR). Potash.

Lincoln County

- ALTO = Nogal District (SAN).
- ANCHO = Jicarilla District = "Jarilla" (error) (BMR).
- ARABELA MANGANESE PROSPECT. T. 8 S., R. 17 E. Not a district (SAN). Mn.
- BAXTER MOUNTAIN = White Oaks District (BMR).
- BONITA = Nogal District (BMR). T. 10 S., R. 11 E. (SIM).
- BONITO (A) = Nogal District (SAN). T. 9, 10 S., R. 11, 12 E. (BLM).
- BONITO NOGAL = Nogal District (BMR).
- CAPITAN COAL FIELD = Sierra Blanca Coal Field (SAN). Coal.
- CAPITAN DISTRICT = Capitan Mountain = El Capitan. T. 8 S., R. 14 E. (SAN). Active (SIM). Fe, Th.

- CAPITAN MOUNTAIN (s). Capitan District and eastward extension across several townships. Principal thorium deposits in T. 7, 8 S., R. 14, 15 E. (SAN). Fe, Th, U.
- CARRIZOZO. T. 7 S., R. 10 E. (SIM). Called "district" by SIM. Scoria.
- CARRIZOZO COAL = Sierra Blanca Coal Field.
- CEDAR CREEK = Nogal District (SAN). T. 10 S., R. 13 E. (SIM).
- CHURCH MOUNTAIN = Nogal District. Not to be confused with the Churchrock uranium prospects in McKinley County (SAN).
- CORONA = Gallinas Mountains District (BMR).
- EAGLE CREEK = Nogal District (SAN).
- EL CAPITAN = Capitan District (BMR). T. 8 S., R. 14 E. (BLM).
- ESTEY DISTRICT = Oscura, Oscura Mountain = Oscuro = Sierra Oscura (in part). In early days, = Oscura = Oscura Mountains. About 15 miles west-northwest of Oscura or Oscuro. T. 7, 8 S., R. 6, 7 E. (BLM). The ruins of Estey City are in the southeast corner of sec. 36, T. 8 S., R. 6 E. (SAN). Cu.
- FORT STANTON COAL = Sierra Blanca Coal Field.
- GALLINAS = Gallinas Mountains District (SAN).
- GALLINAS MOUNTAINS DISTRICT = Corona = Gallinas = Iron Mountain = Red Cloud. T. 1, 2 S., R. 11, 12 E. (SAN). Ag, Ba, Cu, F, Fe, Pb, R.E. (especially bastnaesite), Zn.
- HALL (MACHO) DEPOSIT. Sec. 22, T. 3 S., R. 15 E. Not a district (BMR). Fe.
- IRON MOUNTAIN. Gallinas Mountains District (SAN).
- JARILLA = Error for Jicarilla.
- JICARILLA DISTRICT = Ancho. T. 5 S., R. 12 E. in the Jicarilla Mountains. One mine in T. 6 S., R. 13 E. (SAN). T. 5 S., R. 12 E.; T. 4 S., R. 11 E. (BLM). Active, T. 5 S., R. 12 E. (SIM). Ag, Au, Ba, Cu, Fe, W.
- LONE MOUNTAIN = White Oaks District (SAN).
- NOGAL DISTRICT = Alto = Bonita = Bonito = Cedar Creek = Church Mountain = Eagle Creek = Parsons = Rio Ruidoso = Schelerville = Schuler-ville = Sierra Blanca = Vera Cruz = West Bonito = White Mountain. T. 8, 9, 10 S., R. 11, 12, 13 E. (BLM). A large and sprawling district consisting of a number of subdistricts. Numerous mines are in the Bonito Creek Area. T. 9, 10 S., R. 11 E.; prospects in T. 11 S., R. 13 E. (SAN). Ag, Au, Ba, Cu, Mo, Pb, Zn.
- OSCURA. See under Socorro County.
- OSCURA MOUNTAINS. See under Socorro County.
- OSCURO = Estey District (SAN).
- PARSONS = Nogal District (SAN).
- RED CLOUD = Gallinas Mountains District (SAN). T. 1 S., R. 11, 12 E. (BLM).
- RIO RUIDOSO = Nogal District (SAN).
- RUIDOSO AREA. Near the Nogal District (BMR). Isolated prospects. Metals.
- SHELERVILLE = Nogal District. T. 9 S., R. 11 E. Griswold (1959) treated Schelerville (or West Bonito) as distinct from Nogal (SAN). Cu, Pb.
- SCHULERVILLE. Variant of Schelerville = Nogal District.
- SIERRA BLANCA = Nogal District (SAN).
- SIERRA BLANCA (CAPITAN) COAL FIELD = Capitan Coal = Carrizozo Coal = Fort Stanton Coal = White Oaks Coal. Coal mined near Capitan, Fort Stanton, White Oaks, and Carrizozo (SAN). Inactive (SIM). Coal.
- SIERRA OSCURA = Estey plus Hansonburg districts (SAN). (Lincoln-Socorro).
- TECOLOTE = Tecolote Iron District (SAN).
- TECOLOTE HILLS = Tecolote Iron District.
- TECOLOTE IRON DISTRICT = Tecolote = Tecolote Hills. T. 2, 3 S., R. 12 E. Prospects in T. 3 S., R. 13 E. (SAN). Fe.
- THORITE. See Capitan Mountain.
- UNORGANIZED = T. 6 S., R. 11 E. (BLM) = White Oaks District.
- VERA CRUZ = Nogal District (SAN).
- WEST BONITO = Nogal District. T. 9 S., R. 11 E. Griswold (1959) regarded the Schelerville (West Bonito) as distinct from Nogal. Includes claims in T. 9 S., R. 10 E. (BMR). Cu, Pb.
- WHITE MOUNTAIN (Nogal) = Nogal District. T. 9 S., R. 11 E. (BLM).
- WHITE OAKS CANYON = White Oaks District.
- WHITE OAKS COAL = Sierra Blanca Coal Field.
- WHITE OAKS DISTRICT = Baxter Mountain = Lone Mountain = Unorganized = White Oaks Canyon = Whiteoaks. T. 6, 7 S., R. 11, 12, 13 E. Several mines are located in White Oaks Canyon and on Baxter Mountain, in T. 6 S., R. 11 E., and in sec. 2, T. 7 S., R. 11 E.; also mines on Baxter Mountain and on Lone Mountain (BMR). T. 6, 7 S., R. 11 E.; T. 6 S., R. 12, 13 E. (BLM). T. 6 S., R. 11 E. (SIM). NOTE: Erroneously located on Anderson's (1955 and 1957) map. The district numbered 47 is not White Oaks but Tecolote Iron. The White Oaks District is about halfway between Carrizozo and map circle 45 (BMR). Au, F, Fe, U, W.

Los Alamos County

No mining districts. No production reported to State Inspector of Mines.

The Lazy Daisy mine, assigned to Los Alamos County in Circular 77, is in Taos County. The person in charge had a Los Alamos address.

Luna County

BURDICK HILLS AGATE DEPOSIT. T. 26 S., R. 11 W. Not a district. (BMR). Agate.

CARRIZALILLO-CEDAR = Carrizalillo District. Griswold (1961) uses this name and enlarges district to include T. 27 S., R. 12, 13 W. (BMR).

- CARRIZALILLO DISTRICT** = Carrizalillo-Cedar = Carrizalillo Hills = Cedar Mountains = Cedar Range = Stonewall. T. 28, 29 S., R. 11 W. (SAN). T. 27 S., R. 12 W. (BLM). Formerly known as the Carrizalillo Hills District. Variant spellings used in the early 1880's included Carrisillo, Carrisillio, and Carrizolillo (SAN). Agate, Ag, Au, Cu, Mn, Pb, Perlite.
- CARRIZALILLO HILLS** = Carrizalillo District (SAN).
- CARRIZOLILLO PROSPECT REGION** = Carrizalillo District and surrounding area (BMR).
- CEDAR, CEDAR MOUNTAINS, CEDAR RANGE** = Carrizalillo District (BMR).
- CINCINNATI** = Tres Hermanas District.
- COOKS** = COOKS PEAK DISTRICT. A subdistrict (BMR).
- COOK'S PEAK** = Cooks Peak District. Cooks is a subdistrict (BMR).
- COOKS PEAK DISTRICT** = Cook's Peak = Cooks = Graphic = Hadley = Jose = Old Hadley. T. 20 S., R. 8, 9 W. (BLM). T. 19 S., R. 9 W. (BLM). T. 19 S., R. 9 W. is in the Northern Cooks Range District of Grant County. Ag, Au, Cu, F, Mn, Pb, U, Zn.
- COOK'S RANGE** = Cooks Range Manganese District (BMR).
- COOKS RANGE MANGANESE DISTRICT** = Cook's Range = Deming. Northeast of Deming and about 2 miles northeast of Mirage; southeast of Fluorite Ridge. T. 22 S., R. 8 W. (SAN). F, Mn.
- DEMING** = Fluorite Ridge District. Greenleaf mine, sec. 18, T. 21 S., R. 8 W. (SIM 1960). F.
- FLORIDA** = Florida Mountains District (SAN).
- FLORIDA MOUNTAIN** (Little Florida) = two districts. T. 25, 26 S., R. 7, 8 W. = Florida Mountains District (SAN). T. 24 S., R. 7 W. = Little Florida Mountains District (SAN).
- FLORIDA MOUNTAINS DISTRICT** = Florida = Florida Mountain. T. 25, 26 S., R. 7, 8 W. Not to be confused with the Little Florida Mountains District which is T. 24 S., R. 7 W. (BLM). Ag, Au, Ba, Cu, F, Mn, Pb, Zn.
- FLUORITE (SIC) AND FLUORITE (SIC) RIDGE**. See Fluorite Ridge District.
- FLUORITE RIDGE DISTRICT** = Deming = Mirage. T. 21, 22 S., R. 8, 9 W. North of Deming (SAN). Carnelian, F.
- FREMONT DISTRICT**. See under Hidalgo County.
- GAGE** = Victorio District (SAN).
- GRAPHIC** = Old Hadley (BMR) = Cooks Peak District.
- HADLEY** = Old Hadley in the Cooks Peak District (SAN).
- JOSE** = Cooks Peak District, chiefly in sec. 14, T. 20 S., R. 9 W. The ghost town of Jose is northwest of Cooks (SAN).
- LITTLE FLORIDA** = Little Florida Mountains District (BMR).
- LITTLE FLORIDA MOUNTAINS DISTRICT** = Deming = Little Florida = Manganese Valley. In the W $\frac{1}{2}$, T. 24 S., R. 7 W. (SAN). Ba, F, Mn.
- MAHONEY** = Tres Hermanas District.
- MANGANESE VALLEY** = Little Florida Mountains District (SAN).
- MIDDLE HILLS** = Victorio District.
- MIMBRES**. See Grant County. Mimbreno mine sec. 19, 20, T. 20 S., R. 10 W. South of Dwyer in Grant County (SIM). Stone.
- MINE HILL** = Victorio District.
- MIRAGE** = Fluorite Ridge District (SAN).
- OLD HADLEY** = Cooks Peak District = Graphic. Chiefly in sec. 32, T. 20 S., R. 8 W. Located 2 to 3 miles southeast of Cooks (SAN).
- ROCKHOUND STATE PARK** = Sec. 12, 13, T. 24 S., R. 8 W. Southeast of Deming. Agate.
- STONEWALL** = Carrizalillo District (SAN). T. 28 S., R. 11 W. (BLM).
- TRES HERMANAS DISTRICT** = Mahoney, Cincinnati. T. 27, 28 S., R. 9 W. chiefly. In the Tres Hermanas Mountains, northwest of Columbus (SAN). T. 27 or 28 S., R. 8 or 9 W. approximately (BLM). Ag, Au, Cu, Pb, Spurrite, Travertine, Zn.
- VICTORIO DISTRICT** = Gage = Middle Hills = Mine Hill. T. 24 S., R. 12 W. (BLM). About 2 to 3 miles south of Gage (SAN). Ag, Au, Be, Cu, Fe, Pb, W, Zn.
- VICTORIO (Gage)** = Victorio District (BMR).

McKinley County

- ALLISON** = Gallup District (BMR). T. 15 N., R. 18 W. (BMR).
- AMBROSIA** = Ambrosia Lake District (McKinley-Valencia) T. 14 N., R. 10 W. and T. 13 N., R. 9 W. (SIM).
- AMBROSIA LAKE DISTRICT** = Ambrosia = Gay Eagle = Grant = Grants = Grants Uranium = Gray Eagle = Haystack = Haystack Mountain = Mount Taylor = Red Bluff 2, 4, 5, and 7 = San Mateo Uranium Area = Unorganized T. 14 N., R. 10 W. (SIM). Originally assigned by Northrop to the Grants District. Current usage has enlarged Ambrosia Lake to cover T. 11, 12, 13, 14 N., R. 8, 9, 10, 11 W., and to include the Grants, Haystack, and Mount Taylor districts. Extends into Valencia County (SAN). Mo, Se, U.
- BLACK ROCK**. T. 11 N., R. 17 W. = Gallup-Zuni Coal Basin. Coal.
- BUELL PARK-RED LAKE** (Arizona-New Mexico). Red Lake area, northwest of Gallup. Buell Park is an eroded volcano about 2 $\frac{1}{2}$ miles in diameter, located in Arizona about 9 miles north of Fort Defiance and only 1 $\frac{1}{2}$ miles from the New Mexico line. Red Lake is chiefly in New Mexico, in northwestern McKinley County, northeast of Buell Park and west of Todilto Park (SAN). Garnet, Peridot.
- CHAVES** = T. 16 N., R. 11 W. = San Juan Coal Region. Coal.
- CHURCHROCK** = Gallup Uranium. T. 15, 16 N., R. 15, 16, 17 W. = Gallup District.
- CLARKSVILLE** = Clarkville = Gallup District (BMR).

- CLARKVILLE = Gallup District. Sec. 14, T. 15 N., R. 19 W. (BMR).
- CONTINENTAL DIVIDE = Ambrosia Lake District. Billy the Kid mine at T. 14 N., R. 11 W. U.
- DEFIANCE = Gallup District (BMR).
- FORT DEFIANCE COAL AREA. 10 miles southeast of Fort Defiance, Arizona. Overlaps into Arizona. Coal.
- FORT WINGATE. Southeast of Gallup. Not to be confused with Old Fort Wingate in Valencia County. The name has been applied to the Hogback or Gallup District (SAN).
- GALLUP COAL. *See* Gallup District.
- GALLUP DISTRICT = Allison = Churchrock = Clarksville = Clarkville = Defiance = Fort Wingate = Gallup Coal = Gamercio = Gibson = Hogback = Hogback District = McKinley = Weaver. T. 14, 15, 16 N., R. 16, 17, 18, 19 W. Coal mines in T. 15, 16, N., R. 18, 19 W. (SAN). T. 14, 15 N., R. 17 W. (SIM). Coal, U, V.
- GALLUP-ZUNI COAL BASIN OR FIELD. A larger area than the Gallup District, extending from vicinity of Gallup (T. 15 N., R. 17, 18, 19, 20, 21 W.) southward to T. 8 N., R. 16, 17, 18, 19 W.
- GAMERCIO = Gallup District. 3 miles north of Gallup. Navajo # 5 coal mine (BMR).
- GIBSON = Gallup District (BMR). T. 16 N., R. 18 W.
- GRANTS DISTRICT. NOW = AMBROSIA LAKE DISTRICT (SAN). In a broad sense included also: Gallup, Laguna, and Thoreau districts. Northrop (1959) wrote: "A very large district. For some years the U.S. Atomic Energy Commission and the U.S. Geol. Survey have been including both the Laguna and Gallup districts in their 'Grants district,' but I am here restricting the Grants district by excluding both the Laguna and Gallup districts from it." During the last few years, the name *Grants District* has been supplanted by the name *Ambrosia Lake District*. T. 11, 12, 13, 14 N., R. 9, 10 W. (SIM). Perlite, Pumice, U, V.
- GRANTS URANIUM AREA = Ambrosia Lake District (McKinley-Valencia) (BMR).
- HAYSTACK = Ambrosia Lake District (SAN). T. 14 N., R. 11 W. and T. 13 N., R. 10 W. (SIM). Haystack Section 23 mine = T. 13 N., R. 10 W. Haystack Section 31 mine = T. 13 N., R. 9 W. (SIM).
- HAYSTACK MOUNTAIN = Ambrosia Lake District (BMR).
- HOGBACK = Gallup District. *See also* Fruitland-Hogback Coal Field. Anderson (1955) calls this Hogback (Ft. Wingate).
- HOGBACK = Gallup Uranium Area = Gallup District.
- LA VENTANA-CHACRA MESA COAL FIELD. *See* under Sandoval County.
- McKINLEY = Gallup District (SAN). T. 14 N., R. 17 W. (SIM).
- MENTMORE = Gallup District. T. 15 N., R. 19 W. Several coal mines around the town of Mentmore.
- MOUNT TAYLOR COAL FIELD = San Mateo Coal Field. Surrounds Mount Taylor (SAN). Coal.
- PENTATA = Smith Lake District. Pentata mine in sec. 10, T. 14 N., R. 12 W. (SIM). U.
- POISON CANYON AREA, PREWITT DISTRICT = Smith Lake District, formerly assigned to Grants District (SAN). T. 15 N., R. 11 W. (SIM). T. 13 N., R. 9 W. (BMR) = Ambrosia Lake District (SAN). U.
- POISON CANYON, POISON CREEK. Formerly assigned to the Grants District, this area is now assigned to the Smith Lake District (SAN). U.
- PREWITT DISTRICT (Poison Canyon Area) = Smith Lake District. Formerly assigned to Grants District (SAN). T. 15 N., R. 11 W. (SIM). U.
- RED BLUFF 2, 4, 5, 7 = Gay Eagle = Ambrosia Lake District. Sec. 18, T. 13 N., R. 10 W. (SIM).
- RED LAKE = Buell Park-Red Lake Area (SAN).
- SAN JUAN COAL REGION OR FIELD. *See* San Juan Coal Region or Field under San Juan County.
- SAN MATEO COAL FIELD = Mount Taylor Coal Field (SAN). Coal.
- SAN MATEO URANIUM AREA = Ambrosia Lake District (BMR). U.
- SMITH LAKE DISTRICT = Pentata = Poison Canyon = Poison Creek = Prewitt. T. 14, 15 N., R. 11, 12, 13 W. (SAN). T. 15 N., R. 13 W. (SIM). U.
- THOREAU PROSPECTS = Ambrosia Lake District. (SIM).
- TOHACHI = Tohatchi.
- TOHATCHI. 16 miles southeast of Tohatchi. Indian School mine on Indian Reservation. Coal.
- UNORGANIZED = T. 16 N., R. 16 W. = Gallup District (SAN).
- UNORGANIZED = T. 14 N., R. 9, 10 W. = Ambrosia Lake District (BLM).
- WEAVER = Gallup District (BMR). Coal.
- WINDOW ROCK DISTRICT. Ganado Indian Mission coal mine is assigned to this district. Ganado, Arizona = Indian Reservation. Window Rock district overlaps into Arizona.

Mora County

- CAYOTE = Coyote Creek District (SAN).
- CHACON PROSPECTS. West slope of Rincon Range, north and east of Chacon. Northwest of Coyote Creek District (SAN).
- COYOTE = Coyote Creek District (SAN).
- COYOTE CREEK DISTRICT = Cayote = Coyote = Guadalupita = Guadelupita = Mora (generally). T. 21, 22, 23 N., R. 16, 17 E. (SAN). Ag, Cu, U.
- GUADALUPITA, GUADELUPITA = Coyote Creek District (SAN).
- MORA = Coyote Creek District, generally (SAN).
- MORA-CLEVELAND = Rio de la Casa Prospects. Au, F.
- MORA PLACERS. Near town of Mora (SAN). Au.
- RIO LA CASA. *See* Rio de la Casa Prospects.

RIO DE LA CASA PROSPECTS = Mora-Cleveland. Gold stringers on the North Fork of Rio de la Casa, about 9 miles west of Mora (SAN). Au.

ROCIADA DISTRICT = Hadley = San Carlos = Upper Rociada. T. 19 N., R. 14 E., extending across the Mora-San Miguel county line. Rociada (formerly Rincon) is in San Miguel County; Hadley is 5 miles west of Rociada on the steep flank of the Mora or Elk Mountain Range (SAN). Ag, Au, Be, Cu, Li, Mo, Pb, R.E., Ta, Zn.

ROCIADA PROSPECT REGION. T. 19 N., R. 14 E., northwest of Rociada (Rincon) = Rociada District.

TURKEY MOUNTAINS PROSPECTS. T. 20 N., R. 19 E. Prospects, not a district. North of Watrous and Shoemaker, and west of Wagon Mound (SAN).

UPPER ROCIADA. We are combining Anderson's Rociada District of San Miguel County and his Upper Rociada of Mora County into a single district, Rociada (BMR).

Otero County

ALAMOGORDO = Sacramento District.

BENT = Tularosa District (SAN).

BRICE = Orogrande District (SAN).

GUADALUPE MOUNTAINS DISTRICT. A number of old maps and reports recognize this "district". Probably prospects only, in vicinity of T. 21, 22 S., R. 19, 20 E. but Jones (1904, p. 200) refers to "the old Nymeyer copper mine" (SAN). Au, Cu.

HIGH ROLLS = Sacramento District (SAN).

JARILLA, JARILLA MOUNTAINS = Orogrande District (SAN). T. 21, 22 S., R. 8 E. (BLM).

ORO GRANDE = Orogrande District (BMR).

OROGRANDE DISTRICT = Brice = Jarilla = Jarilla Mountains = Oro Grande = Silver Hill. Several mines are in T. 21, 22 S., R. 8 E. (SAN). Ag, Au, Cu, Fe, Pb, Tur., W.

PINON. Prospects only. Hardy's Place located in sec. 23, T. 19 S., R. 13 E. west of Pinon which is in T. 19 S., R. 15 E.

RED HILL = Sacramento District (BMR).

RINCON-SACRAMENTO. T. 16 S., R. 11 E. (BLM). See Sacramento District.

RIO TULAROSA = Tularosa District (SAN).

SACRAMENTO DISTRICT = Alamogordo = High Rolls = Red Hill = Rincon-Sacramento. T. 16 S., R. 10, 11 E. East of Alamogordo, between Alamo Canyon and High Rolls. The Courtney mine is in sec. 17, and the Warnock mine is in sec. 30, T. 16 S., R. 11 E. (SAN). Ba, Cu, Marble, Pb.

SILVER HILL = Orogrande District (SAN).

SILVER HILL (or Jarilla) = Orogrande District. T. 21, 22 S., R. 8 E. (BLM).

THREE RIVERS DISTRICT. About 10 miles east of Three Rivers, in sec. 18, T. 12 S., R. 11 E. (SAN). Fe.

TULAROSA (Bent) = Tularosa District (BMR).

TULAROSA DISTRICT = Bent = Rio Tularosa. T.

13 S., R. 11 E. In the vicinity of Bent (SAN). Ag, Alabaster "onyx," Au, Cu.

WHITE MOUNTAIN. See under Lincoln County.

Quay County

FORREST PROSPECT. T. 7 N., R. 32 E. (BMR). U.

LOGAN COPPER PROSPECTS. Near Pierce ranch, in the Canadian River Valley, 8 miles west of Logan (SAN). Cu.

LOGAN GOLD PROSPECT. West of Logan, in a side canyon tributary to the Canadian River. Possibly pyrite (SAN). Au (?).

SAN JON PROSPECTS. T. 9, 10 N., R. 33 E.; T. 11 N., R. 32 E. (SAN). U.

Rio Arriba County

ABIQUIU DISTRICT = Cobre Basin = Cobre Canyon = Copper Canyon. T. 24 N., R. 5, 6 E. (BMR). In Cobre Canyon about 9 miles north of Abiquiu (SAN). Au Placer, Cu, U.

ALAMOS AREA = Petaca District (BMR).

AMARGO = Monero Coal District (SAN). The Amargo district was noted in 1882 as a coal producer.

BROMIDE = Bromide No. 2 District (SAN). T. 27, 28 N., R. 7 E.; T. 28 N., R. 8 E. (BLM).

BROMIDE NO. 2 DISTRICT = Bromide = Headstone (in part) = Tusas Mountain. Just south of Tusas in T. 28 N., R. 7, 8 E. For Bromide No. 2 and Hopewell districts: Ag, Au, Cu, Fe, Pb, Zn.

BROMIDE-HOPEWELL (Headstone). Regarded as two separate districts. See also Headstone (SAN).

CANJILON RANGER STATION. Horny Toad (Lucky Dog) mine or prospect in sec. 29, 32, T. 25 N., R. 5 E. U.

CHAMA PLACERS DISTRICT = Rio Chama Placers Region. On the Chama River, 8 miles west of Abiquiu and near the junction of Canones Creek (SAN). Au, Monazite; U (near this district).

COBRE BASIN, COBRE CANYON = Abiquiu District (SAN).

COPPER CANYON = Abiquiu District (SAN).

COPPER CITY. See under Sandoval County.

CORDOVA = Nambe District (Santa Fe). T. 20 N., R. 10, 11 E. (SAN). Perhaps Nambe District should be extended northward to include Cordova area of Rio Arriba County (SAN). The Rocking Chair # 1 mine is in T. 21 N., R. 11 E. (SIM). Be.

CORDOVA AND NAMBE DISTRICT. T. 20 N., R. 10 E. (SIM).

COYOTE = Gallina District or an eastward extension of it (SAN).

CRIBBENSVILLE, CRIBBENVILLE = Petaca District (SAN).

EL RITO DISTRICT = El Rito Placer. North of the town of El Rito, largely between El Rito Creek and Arroyo Seco; in the Juan Jose Lobato Grant, projected sec. 19 and south in T. 25 N., R. 7 E. (SAN). Au.

EL RITO PLACER = El Rito District (BMR).
 EUREKA CREEK = Hopewell District (SAN).
 EUREKA MINE = Nacimiento Mountains District (which lies chiefly in Sandoval County) (SAN). See under Sandoval County.
 GALLINA DISTRICT = Coyote = Gallina Prospect Region = Jarosa = Jarossa = Mesa Alta = Mining Mountain = Youngsville. A large and rather indefinite district. Gallina itself is in T. 23 N., R. 1 E. There is a prospect 2½ miles southwest of Gallina. Mining Mountain is in the south-center of T. 21 N., R. 2 E.; mines are in sec. 28. The Jarosa (Jarossa) mines are apparently in sec. 23, T. 21 N., R. 2 E. (SAN). Ag, Cu, Pb, U. Also U east of this district.
 GOOD HOPE = Hopewell District (SAN).
 HEAD-STONE. See Headstone.
 HEADSTONE = Hopewell District, generally, but sometimes Headstone included Bromide No. 2 District (SAN). T. 29 N., R. 6, 7 E. (BLM).
 HEADSTONE (Bromide-Hopewell). Tom Boy mine = T. 29 N., R. 6, 7 E. (SIM) = Hopewell District.
 HOPEWELL DISTRICT = Eureka Creek = Good Hope = Headstone = Tres Piedras. T. 28, 29 N., R. 6, 7 E. (SAN). T. 29 N., R. 6 E. (SIM). Active (SIM). Ag, Au, Cu, Fe.
 JAROSA, JAROSSA = Gallina District (SAN).
 KERN = Llaves. Llaves is a ghost town (Rio Arriba). Kern mine in T. 25 N., R. 1 E. Coal.
 LA MADERA = Petaca District (SAN).
 LAS TABLAS = Petaca District (SAN).
 LLAVES. Kern mine (SIM 1960) = sec. 21, T. 25 N., R. 1 E. Has been assigned to the Monero District, several townships farther north. Coal.
 LUMBERTON = Monero Coal District (BMR). Sec. 1, T. 31 N., R. 1 W.
 MESA ALTA = Gallina District (SAN) = T. 23 N., R. 2 E. (BLM).
 MESA VERDE = Monero Coal District. Amargo Knot mine No. 1 and No. 2, T. 31 N., R. 1 W. Active (SIM). Coal.
 MINING MOUNTAIN = Gallina District (SAN) = T. 20, 21 N., R. 2 E. (BLM).
 MONERO COAL DISTRICT = Lumberton = Monero. T. 31 N., R. 1 E. (SIM) Coal.
 NAMBE DISTRICT. T. 20 N., R. 10, 11 E. (SAN). See under Santa Fe County.
 OJO CALIENTE = Ojo Caliente No. 1 District (BMR).
 OJO CALIENTE NO. 1 DISTRICT = Ojo Caliente. About 1½ miles north of Ojo Caliente, west of the Rio Ojo Caliente; mines in sec. 11, 12, 13, T. 24 N., R. 8 E. Formerly included in the Petaca District (SAN). T. 24 N., R. 8 E. (SIM). F, Mica, R.E., Ta.
 PALOMA CANYON PROSPECT = Petaca District. T. 25 N., R. 9 E. Mica, Quartz.
 PETACA DISTRICT = Alamos = Cribbensville = Cribbenville = La Madera = Las Tablas = Ojo Caliente = Paloma Canyon Prospect = Servilleta = Tres Piedras = Vallecitos. T. 25, 26, 27 N., R. 8, 9

10 E. A rather large district, extending from the La Madera area (T. 25 N., R. 8, 9 E.) to Kiawa Canyon (T. 27 N., R. 8 E.) See the La Madera quad. map. This district formerly included also the Ojo Caliente No. 1 District (SAN). T. 26 N., R. 8, 9 E. (BLM). Red mine: sec. 25, T. 26 N., R. 9 E. (SIM). Be, F, Kyanite, Mica, R.E., Ta.
 PUYE. Cullum claim. Not a district (BMR). Active (SIM). Pumice.
 RINCONADA = Picuris District (Taos).
 RINCONADA (West Picuris) = Rinconada = Picuris District (Taos) (BMR).
 RIO CEBOLLA PROSPECT. T. 26 N., R. 2 E. Not a district (BMR).
 RIO CHAMA PLACERS REGION = Chama Placers District.
 SERVILLETA = Petaca District (SAN).
 TAOS AREA (Rio Arriba-Taos). See note under Taos County.
 TIERRA AMARILLA = San Juan Coal Field. Dandee mine, inactive (SIM 1954). Coal.
 TRES PIEDRAS = Bromide No. 2 and Hopewell districts (SAN). Also applied to Cerro Montosa District (Taos) and No Agua District (Taos) (BMR). T. 29 N., R. 7, 8 E., unsurveyed (BLM).
 TRUCHAS = Nambe District (Santa Fe).
 TUSAS MOUNTAIN = Bromide No. 2 District (SAN).
 VALLECITOS = Petaca District (SAN).
 VITCARA = Error for Petaca = Paloma Canyon Prospect = Petaca District. Sec. 17, T. 25 N., R. 9 E. Mica, Quartz. (BMR).
 WEST PICURIS = Rinconada = Picuris District (Taos).
 YOUNGVILLE = Gallina District (SAN).

Roosevelt County

No mining districts. Subsurface salt. Diatomite. Extensive deposits of caliche. Sand and gravel. Ballast.

Sandoval County

ALAMILLO. A westward extension of the New Placers District of Santa Fe County. A settlement by this name is shown on maps a few miles west of Golden. Possibly the same as Nero Placers (which see) (SAN).
 ALBEMARLE = Cochiti District (SAN).
 ALCODENES = Algodones.
 ALGODONES = Placitas District, presumably (SAN). Cu.
 BLAND = Cochiti District (SAN).
 CAPULIN PEAK = Placitas District. Not to be confused with Mount Capulin, the volcanic cone of Capulin Mountain National Monument (Union) (SAN).
 COCHITI DISTRICT = Albemarle = Bland = Peralta Canyon. Bland is in sec. 25, T. 18 N., R. 4 E. Other mines in sec. 24 and immediately south of sec. 25. Albemarle is in the northwest corner of the Canada quad., projected sec. 35, T. 18 N., R. 4 E. (SAN). T. 18 N., R. 4, 5 E. (BLM). Ag, Au, Perlite, U.

- COPPER CITY = Nacimiento Mountains District (Sandoval-Rio Arriba) (chiefly of Sandoval County) (SAN).
- CUBA MANGANESE DISTRICT = T. 21, 22 N., R. 3, 4 W., west and northwest of Cuba. Mn.
- GALLINA PROSPECT REGION. Extension of Gallina District (Rio Arriba). T. 22, 23 N., R. 1 W. and R. 1, 2, 3, 4 E. Includes Youngsville, Coyote, Arroyo del Agua, Mesa Alta.
- HAGAN = Hagan Coal District. T. 13 N., R. 6 E., north of the Sandia Mountains and west of the Ortiz Mountains. Apparently Hagan, Hagen, and Hogan are variant spellings (SAN).
- HAGAN COAL DISTRICT = Hagen = Hogan = Una del Gato. T. 13 N., R. 6 E. (SAN). Ag, Au, Coal, Cu, Se.
- HOGAN DISTRICT. T. 12, 13 N., R. 6 E. Area is the same as *Hagan Coal* District (SIM).
- JEMAS, JEMES, Variants of "Jemez" (SAN).
- JEMEZ, JEMEZ MOUNTAIN, JEMEZ PLATEAU, JEMEZ PUEBLO = Jemez Springs District, generally, but sometimes applied to the Jemez Sulfur District (SAN).
- JEMEZ SPRINGS DISTRICT = Jemas = Jemes = Jemez Mountain = Jemez Plateau = Jemez Pueblo = Spanish Queen = Spanish Queen mine, T. 17 N., R. 2 E. The Spanish Queen mine, about 3 miles south of the town of Jemez Springs, is in the Canyon de San Diego Grant (SAN). Ag, Au, Cu.
- JEMEZ SULFUR DISTRICT = Jemas = Jemes = Jemez = Jemez Sulfur = Otero Sulphur Springs = San Diego Sulphur = Sulfur Springs = Sulphur Springs. T. 18, 19 N., R. 3 E. (SAN). T. 19 N., R. 3 E. (BLM). The Jemez Sulfur Springs are located just inside Baca Location No. 1 Grant, about 6 miles airline north-northeast of Battleship Rock. Another smaller area of sulfur deposits is located about 1/2 mile west of Battleship Rock. Sulfur.
- JEMEZ SULPHUR SPRINGS = Jemez Sulfur District (SAN).
- LA MADERA = Placitas District. Early reports distinguished three districts at the north end of the Sandia Mountains: La Madera, Sandia, and Placitas-Montezuma. The village of La Madera is in SW 1/4 sec. 36, T. 12 N., R. 5 E., less than 1/2 mile north of the Sandoval-Bernalillo county line (SAN).
- LAS PLACITAS = Placitas District (SAN).
- LA VENTANA. See La Ventana Mesa.
- LA VENTANA-CHACRA MESA COAL FIELD = La Ventana Mesa (Sandoval-McKinley) (SAN). Coal, Se, U.
- LA VENTANA MESA. T. 18, 19 N., R. 1 W., south of Cuba and east of La Ventana. Included in La Ventana-Chacra Mesa Coal Field (SAN). Numerous coal mines. Coal, Se, U.
- MONTEZUMA = Placitas District (SAN).
- NACIEMENTO, NACIEMIENTO. Erroneous spellings of Nacimiento (SAN).
- NACIEMENTO = Nacimiento Mountains District (SAN).
- NACIEMENTO MOUNTAINS DISTRICT = Copper City = Eureka mine = Nacimiento = Nacimiento = Nacimiento = San Francesca = San Miguel = San Miguel mine = Senorita = Senorito = Sierra Nacimiento. Extends from east of Cuba to about 11 miles south. Chiefly in T. 19, 20 N., R. 1 W.; the Eureka mine is in Rio Arriba County (SAN). T. 20 N., R. 1 W. (SIM). Cu, U.
- NERO PLACERS. A westward extension of the New Placers District (Santa Fe), but located within the Placitas District of Sandoval County (SAN).
- OTERO SULPHUR SPRINGS = Jemez Sulfur District (SAN).
- PERALTA CANYON = Cochiti District (SAN).
- PLACITAS DISTRICT (Sandoval-Bernalillo) = Algodones = Bernalillo = Capulin Peak = Juan Tabo = La Luz = La Luz Mine = La Madera = Las Placitas = Montezuma = Nero Placers (?) = Placitas-Montezuma = Sandia = Sandia Mountains = Sandia-North Manzano Prospect Region = Sandia No. 1, T. 11, 12, 13 N., R. 4, 5, 6 E. In a broad sense, includes the northern Sandia Mountains (SAN). T. 11 N., R. 5 E. (BLM). Ag, Au, Ba, Cu, F, Gypsum, Pb.
- PONDEROSA DISTRICT. T. 17 N., R. 3 E. (SIM). Between Jemez Springs and Cochiti districts (SAN). Pumice.
- RIO PUERCO COAL FIELD (Bernalillo-Sandoval). See Rio Puerco Coal Field, Bernalillo County.
- SANDIA = Placitas District (SAN). See Sandia or Placitas (Bernalillo-Sandoval).
- SANDIA-NORTH MANZANO PROSPECT REGION. See Placitas District (Sandoval-Bernalillo) and Tijeras Canyon District (Bernalillo).
- SANDIA No. 1 = Placitas District. T. 12 N., R. 5 E. (SIM).
- SAN DIEGO SULPHUR = Jemez Sulfur District (SAN).
- SAN FELIPE PTT. Not a district. San Felipe Pueblo Reservation. Gravel (SIM).
- SAN FRANCESCA = Nacimiento Mountains District (Sandoval-Rio Arriba).
- SAN MIGUEL = Nacimiento Mountains District (SAN). T. 19 N., R. 1 W. (BLM). T. 20 N., R. 1 W. (SIM).
- SAN YSIDRO = White Mesa District (BMR).
- SENIORITA = Senorito = Nacimiento Mountains District. T. 20 N., R. 1 W. approximately (BLM). T. 21 N., R. 1 W. (SIM).
- SENIORITO = Nacimiento Mountains District. T. 20 N., R. 1 W. approximately (BLM). T. 21 N., R. 1 W. (SIM).
- SIERRA NACIEMENTO = Nacimiento Mountains District (SAN).
- SPANISH QUEEN, SPANISH QUEEN MINE = Jemez Springs District (SAN).

SULFUR SPRINGS, SULPHUR SPRINGS = Jemez Sulfur District (SAN).
UNA DEL GATO COAL FIELD = Hagan Coal District (SAN). New Mexico Energy Resources Map (1958) NMBMMR is in error on Una del Gato Coal Field. Coal.
WHITE MESA DISTRICT = San Ysidro. T. 15 N., R. 1 E. Near San Ysidro (BMR). Gypsum.

San Juan County

BEAUTIFUL MOUNTAIN = Shiprock District (SAN).
CARRIZO = Shiprock District. Navajo Indian Reservation (BLM).
CARRIZO MOUNTAIN (S) = Shiprock District. Not to be confused with another Carrizo Mountain in Catron County, nor with one in Lincoln County (SAN).
CARRIZO MOUNTAINS (error for Carrizo) = Shiprock District (BLM).
CHUSKA = Shiprock District (SAN). T. 25 N., R. 20, 21 W. Chuska is sometimes regarded as a separate district. U, V.
CORTEZ = Shiprock District (SAN).
FRUITLAND DISTRICT (Fruitland-Hogback Coal Field) = Fruitland-Hogback = Kirtland (?). The Fruitland District extends from Fruitland northward nearly to the Colorado line (SAN). Lime in T. 30 N., R. 15 W. (SIM). Coal, Lime.
HOGBACK COAL FIELD. See Fruitland District and Thatcher (Hogback) District, Hogback No. 13 (SAN). Coal.
KING TUT (T), KING TUT (T) MESA = Shiprock District (BMR).
KIRTLAND = Fruitland District (BMR). Kirtland mine (SIM-1920).
LA PLATA. La Plata Mine = T. 32 N., R. 13 W. (SIM-1908). San Juan Coal Region. Coal.
NAVAJO RESERVATION = Shiprock District. Sec. 16, 21, 29, T. 29 N., R. 15 W. has a gravel pit on a coal lease (SIM).
OAK = Shiprock District (SAN). T. 29 N., R. 21 W.
OAK SPRINGS = Shiprock District. Not to be confused with Oak Springs in the Magdalena District (Socorro). Oak Springs Plot # 7 = sec. 29, 30, T. 31 N., R. ? ?; Oak Springs Plot # 3 = San Juan County Indian Reservation (SIM).
REDROCK = Shiprock District (SIM-1956). Sec. 12 T. 29 N., R. 21 W., 11 miles north of Red Rock Trading Post. U.
SANASTEE = Shiprock District. A variant spelling of Sanostee (SAN).
SAN JUAN COAL REGION OR FIELD. San Juan-McKinley counties principally. This region has generally been subdivided into several fields or districts: Fruitland-Hogback, Gallup, Gallup-Zuni, La Plata, La Ventana-Chacra Mesa, Mesa Verde, Monero, Mount Taylor, and Zuni (SAN). Coal.
SAN JUAN FIELD. See San Juan Coal Region.

SAN JUAN RIVER COAL REGION = San Juan Coal Region (BMR).
SANOSTEE = Shiprock District (SAN).
SHIPROCK DISTRICT = Beautiful Mountain = Carrizo = Carrizo Mountain = Carrizo Mountains = Carrizozo Mountains = Chuska = Cortez = King Tut (t) = King Tut (t) Mesa = Navajo Reservation = Oak = Oak Springs = Redrock = Sanastee = Sanostee. T. 24, 25, 26, 27, 28, 29, 30 N., R. 20, 21 W. A large district, chiefly in Arizona. Part of what is herein called the *Shiprock District* is designated the *Chuska District* by the U.S. Atomic Energy Commission. In a restricted sense, Chuska includes T. 25 N., R. 20, 21 W.; Shiprock includes chiefly T. 29, 30 N., R. 21 W. (SAN). Active (SIM). U, V.
THATCHER (HOGBACK) DISTRICT = Hogback = Hogback Field = Hogback No. 13 = T. 30 N., R. 16 W. north of Shiprock (SIM). Coal.

San Miguel County

BULL CREEK = Elk Mountain District, in part (SAN).
CANYON LARGO PROSPECT = Sabinoso Uranium Prospects. T. 17 N., R. 22 E. (BMR). U.
COOPER = Willow Creek District (SAN). T. 18 N., R. 12 E. (BLM).
COPPER = Cooper. Misprint in old publication for Cooper or Willow Creek District (SAN).
COW CREEK. A creek starting in the Elk Mountain area, east of Tererro, and flowing southward to the Pecos River. See Rio de la Vaca, Elk Mountain District (SAN).
COWLES = Willow Creek District. T. 18 N., R. 12 E. Coal.
DALTON CANYON. See Pecos River Basin.
ELK CREEK = Elk Mountain District (SAN).
ELK MOUNTAIN DISTRICT = Bull Creek = Cow Creek = Elk Creek = Las Vegas (in part) = Rio de la Vaca. Near Elk Mountain in T. 18 N., R. 13 E. (SAN). Mica, R.E., Ta, U.
EL PORVENIR DISTRICT = Hermit Mountain = Mineral Hill = Porvenir. In NE $\frac{1}{2}$, T. 17 N., R. 14 E. (SAN). T. 17 N., R. 14 E. (SIM). Ag, Au, Bi, Cu, F, Mo, U, W.
HADLEY = Rociada District (Mora-San Miguel) (SAN). See under Mora County.
HAMILTON = Willow Creek District (SAN). "Hamilton or Cooper", T. 18 N., R. 12 E. (BLM).
HERMIT MOUNTAIN = El Porvenir District (SAN).
HOLY GHOST. See Pecos River Basin.
LAS VEGAS, LAS VEGAS MINES = Elk Mountain District and/or Tecolote District (SAN).
LOPEZ FLAGSTONE. Not a district. T. 13 N., R. 14 E. Active (SIM). Stone.
MACHO-INDIAN CREEK. See Pecos River Basin.
MINERAL HILL. Generally assigned to the Tecolote District, although it is actually closer to the El Por-

venir District (SAN). T. 17 N., R. 14 E. (BLM) = either Tecolote or El Porvenir District (SAN).

PECOS = Pecos Mine = E1/2 sec. 5, T. 16 N., R. 12 E. Coal.

PECOS = Willow Creek District.

PECOS RIVER BASIN. A large area, including (Anderson, 1956) such subdistricts as Dalton Canyon, Macho-Indian Creek, Holy Ghost, and Upper Pecos.

PORVENIR = El Porvenir District (BMR).

RIBERA = Tecolote District (BMR).

RIBERA COPPER PROSPECTS. Sometimes regarded as part of the Tecolote District (SAN). Cu.

RINCON = Rociada District.

RIO CEBOLLA PROSPECT REGION. See under Rio Arriba County.

RIO DE LA VACA. See Cow Creek, Elk Mountain District (SAN).

RIVERA = Ribera = Tecolote District.

ROCIADA DISTRICT (San Miguel-Mora) = Rociada = Rociada Prospect Region. See under Mora County.

ROCIADA PROSPECT REGION. T. 19 N., R. 14 E. Also extends into Mora County = Rociada District.

SABINOSA = Sabinosa Uranium Prospects (BMR).

SABINOSA URANIUM PROSPECTS. Near junction of Mora-Harding-San Miguel county lines. Sabinoso in T. 17 N., R. 24 E. Canyon Largo is to southwest (SAN). U.

SALITRE = Tecolote District (SAN).

SAN CARLOS = Rociada District (Mora-San Miguel) (SAN).

SAN MIGUEL = Tecolote District (SAN).

SAN PABLO = Tecolote District (SAN).

SANTA CRUZ. T. 12 N., R. 15 E. (BLM). Apparently prospects in Sena-Villanueva area (SAN).

SAPELLA. Misspelling of Sapello (SAN).

SAPELLO, SAPELLO RIVER. Prospects only. Also Sapillo, on occasion (SAN).

SELITRE = Salitre = Tecolote District (SAN).

SENA-VILLANUEVA GOLD PROSPECTS. On the Pecos River, south of Ribera (SAN). Au.

TECOLOTE DISTRICT = Las Vegas (in part) = Las Vegas Mines (in part) = Mineral Hill (?) = Ribera = Ribera Copper Prospects = Rivera = Salitre = San Miguel = San Pablo = Selitre. T. 14, 15 N., R. 14, 15, 16 E. A large and vaguely defined district southwest of Las Vegas. Mineral Hill (T. 17 N., R. 14 E.) has sometimes been included as a northwestward extension of the Tecolote district, although it is much closer to the El Porvenir District (SAN). Be, Cb, Cu, Mica, R.E., Ta.

TERERRO = Willow Creek District (SAN). T. 18 N., R. 12 E. (SIM).

THATCHER HOGBACK DISTRICT. Error in literature.

UPPER PECOS. See Pecos River Basin.

VALLEY RANCH = Willow Creek District.

WILLOW CREEK DISTRICT = Cooper = Copper (misprint) = Cowles = Hamilton = Pecos = Pecos River = Tererro = Valley Ranch. T. 18 N.,

R. 12 E. (SAN). The only major mine in the Pecos River Basin (Anderson, 1956). Ag, Au, Cu, Pb, Zn.

Santa Fe County

ASPEN MOUNTAIN DISTRICT = Aspen Ranch. T. 18 N., R. 10 E. (SIM). Northeast of Santa Fe, near Santa Fe Manganese District (SAN). Ag, Au, Cu, Mn, Pb, Zn.

ASPEN RANCH = Aspen Mountain District (BMR). Sec. 1, T. 18 N., R. 10 E.

BONANZA CITY = Cerrillos District (SAN).

CARBONATEVILLE = Cerrillos District (SAN).

CARNAHAN = New Placers District (SAN).

CERILLOS = Misspelling for Cerrillos.

CERRILLOS DISTRICT = Bonanza City = Carbonateville = Cerillos = Galisteo = Galisteo Creek = Hungry Gulch = Los Cerrillos = Los Cersillos = Mount Chalchihuitl = Turquesa = Turquoise = Turquoise = Turquoise City = Turquoise Hill. In T. 14, 15 N., R. 7, 8 E. (BLM). Numerous mines in T. 15 N., R. 8 E. La Bajada mine T. 15 N., R. 7 E. (SIM). Placer T. 14 N., R. 8 E. (SIM). Ag, Au, Pb, Tur., U, Zn.

CERRILLOS COAL DISTRICT = Madrid. T. 14 N., R. 7, 8 E. (SAN). Coal.

CERRILLOS HILLS = Cerrillos District (BMR).

CHIMAYO = Nambe District (BMR).

COPAR MINE. Sec. 31, 32, T. 20 N., R. 7 E. Not a district. Near Los Alamos (SIM). Pumice.

CORDOVA AND NAMBE DISTRICT (Rio Arriba-Santa Fe). See Cordova District (Rio Arriba) and Nambe District (Santa Fe).

CUNNINGHAM GULCH-ORTIZ = Old Placers District.

DALTON-MACHO CREEK = Santa Fe District (Anderson, 1956). Ag, As, Au, Cu, Pb, Zn.

DOLORES = Old Placers District (SAN).

EL REAL DE DOLORES = Old Placers District (SAN).

GALISTEO = Cerrillos District, generally. Not to be confused with the Rio Galisteo "district" (Old Placers District, of some writers) (SAN). T. 14, 15 N., R. 7, 8 E. (BLM).

GALISTEO CREEK = the Galisteo-Cerrillos region of some reports (SAN).

GLORIETA = Glorieta District. Has been misapplied to Cerrillos District (SAN).

GLORIETA DISTRICT = Glorieta = Glorieta Mesa = Glorietta = Mailleuchet (?) = Mesa. T. 15, 16 N., R. 11 E. (SAN). Glorieta T. 16 N., R. 11 E. (BLM). Ag, Au, Cu, Fe, Pb, Zn.

GLORIETTA = Glorieta District. Variant spelling of Glorieta (SAN).

GOLDEN = New Placers District (SAN).

GOLDEN PLACERS = New Placers District.

HILLSBORO = Hillsboro (Sierra). Error in literature.

HUNGRY GULCH = Cerrillos District (SAN).

LA BAJADA DISTRICT = Cerrillos (in part). The La Bajada mine is in the Canada de Santa Fe, in the La Majada Grant, projected sec. 9, T. 15 N., R. 7

- E., near the village of La Bajada, on the old Santa Fe-Domingo highway. The La Bajada mine is assigned to Cerrillos District, sec. 8, 9, T. 15 N., R. 7 E. by (SIM). Rosario in sec. 5, 32, T. 14, 15 N., R. 7 E., Kaiser gypsum quarry, might be included in La Bajada District (SAN). Ag, Cu, Gypsum, U.
- LA CIENEGA DISTRICT.** T. 16 N., R. 8 E. (SIM). This is north of the Cerrillos District (SAN). Scoria.
- LAZARUS GULCH** = New Placers District (SAN).
- LONE MOUNTAIN** = Old Placers District. On the southeast flank of the Ortiz Mountains, near Dolores (SAN).
- LOS CERRILLOS** = Cerrillos District (SAN). T. 14 N., R. 8 E. (SIM).
- LOS CERSILLOS** = Cerrillos = variant spelling in Mint Director's Report of 1883.
- MADRID** = Cerrillos Coal District (SAN). Coal.
- MAILLEUCHET** = Glorieta District, apparently. However, the Clason (1911) map shows it in the Santa Fe District (SAN).
- MESA** = Glorieta District (SAN). T. 15 N., R. 11 E. (BLM).
- MIKADO** = Santa Fe District (SAN). Au, Cu, Pb, Zn.
- MONTEZUMA** = Santa Fe District (SAN).
- MOUNT CHALCHIHUITL** = Cerrillos District (SAN). As Northrop (1959, p. 532) has pointed out, there are sixteen different spellings of Chalchihuitl.
- NAMBE DISTRICT** = Chimayo = Cordova = Santa Fe Mountains (in part) = Truchas. T. 20, 21 N., R. 9, 10, 11 E. The Clason (1911) map indicates that the Nambe District, located northeast of Nambe, contains gold and silver ores. There are few published references to the district except for news items in the 1880's that refer to mica being mined there. Recent prospecting of pegmatites for beryl has been carried on in the Truchas or Cordova "district" east of Cordova along the Santa Fe-Rio Arriba county line. This Cordova-Truchas area is herein assigned to the Nambe District (SAN). Ag, Au, Be, Mica.
- NEW PLACERS DISTRICT** = Alamillo (westward extension in Sandoval County of New Placers) = Carnahan = Golden = Golden Placers = Lazarus Gulch = Nero Placers (westward extension) (?) = Placer Mountains (in part) = San Isidro (probably) = San Lazaro = San Lazarus Placers = San Pedro = San Pedro Mountain = San Pedro Mountains = Santa Fe (broad usage) = San Ysidro Mountains = San Zaro = Silver Butte = Silver Buttes = Tuerto Mountain = Tuerto Mountains = Tuertos Range. San Pedro and some of the old workings are in sec. 22, 27, T. 12 N., R. 7 E. (SAN). T. 12 N., R. 7 E. (BLM). Ag, Au, Cu, Fe, Pb, W, Zn.
- OLD PLACERS DISTRICT** = Cunningham Gulch = Dolores = El Real de Dolores = Lone Mountain = Ortiz = Ortiz Mountains = Placer Mountains (in part) = Rio Galisteo = San Lazaro (?) (in part) = San Zaro (?) (in part) = Sierra del Oro = Silver Butte (in part) = Silver Buttes (in part) = T. 13 N., R. 7 E. (SAN). In the Ortiz Mountains. Active (SIM). Au, Cu, Fe, W.
- OMERO COAL MINING AREA.** Omero mine, 7 miles SW of Galisteo = T. 13 N., R. 8 or 9 E., which is east of the Cerrillos Coal District (SIM-1922). Coal.
- ORTIZ, ORTIZ MOUNTAINS** = Old Placers District (SAN).
- PECOS** = Pecos, San Miguel County (BMR) = E $\frac{1}{2}$ sec. 5, T. 16 N., R. 12 E. Coal.
- PENACHO PEAK PROSPECTS** = Santa Fe District. Au, Cu.
- PENITENTIARY Clay Pit** (BMR).
- PLACER MOUNTAIN (s)** = New Placers and Old Placers districts.
- REAL DE DOLORES PLACERS** = El Real de Dolores Placers = Old Placers District.
- RIO GALISTEO** = Old Placers District. Not to be confused with the old "Galisteo district" which is the Cerrillos District (SAN).
- SAN ISIDRO** = New Placers District, probably. Not to be confused with the village of San Ysidro in Sandoval County (SAN).
- SAN LAZARO** = New Placers District and possibly also the Old Placers District (SAN).
- SAN LAZARUS PLACERS** = San Pedro = New Placers District.
- SAN PEDRO** = New Placers District (SAN). T. 12 N., R. 7 E. (SIM).
- SAN PEDRO MOUNTAIN (s)** = New Placers District. Not to be confused with San Pedro Mountain at the north end of the Nacimiento Mountains (Rio Arriba) (SAN).
- SANTA FE** (*See* New Placers or Silver Buttes) (BLM) = New Placers District (SAN). Should not be assigned to Santa Fe District (SAN).
- SANTA FE CANYON** = Santa Fe Manganese District, probably (SAN).
- SANTA FE DISTRICT** = Dalton-Macho Creek = Maillouchet (?) (Clason, 1911 map shows it here. More likely to be Glorieta District) = Mikado = Montezuma = Penacho Peak Prospects = Santa Fe Mountains (in part) = Tenacho. T. 17 N., R. 11 E. Located east of Santa Fe and extending into San Miguel County (SAN). According to Anderson (1956), the headwaters of Dalton and Macho creeks constitute part of the Santa Fe District. Ag, Au, Cu, Pb, R.E., Zn.
- SANTA FE MANGANESE DISTRICT.** T. 17 N., R. 9, 10 E. about 4 miles northeast of Santa Fe (SAN). Mn.
- SANTA FE MOUNTAINS** = Santa Fe District and, on occasion, the Nambe District (SAN).
- SANTA FE NEW PLACERS** = New Placers District (SAN). T. 12 N., R. 7 E. (SIM).
- SANTA FE RIVER CANYON** = Santa Fe Manganese District. T. 17 N., R. 10 E. (SIM).
- SAN YSIDRO MOUNTAINS** = New Placers District (SAN).
- SAN ZARO** = San Lazaro or Lazarus Gulch (?). In new Placers District and possibly also in the Old Placers District (SAN).

SIERRA DEL ORO = Old Placers District. Not to be confused with Mesa del Oro, in Valencia County, southeast of Acoma and west of Lucero Mesa (SAN).
 SILVER BUTTE (s) = New Placers District, generally; Sometimes included also the Old Placers District (SAN). T. 12 N., R. 7 E. (BLM).
 TENACHO = Santa Fe District (BMR). Probably Penacho.
 TUERTO MOUNTAIN (s), Tuertos Range = New Placers District (SAN).
 TURQUESA = Cerrillos District (SAN).
 TURQUOIS, TURQUOISE (City, Hill) = Cerrillos District (SAN).
 WILLOW CREEK = Willow Creek District of San Miguel County.

Sierra County

ANIMAS = Las Animas Placer District (SAN). T. 15, 16 S., R. 7 W. (SIM).
 ANIMAS PLACER = Las Animas Placer District (SAN).
 APACHE = Apache No. 1 = Chloride District (SAN). T. 10, 11 S., R. 9 W. (SIM). T. 9, 10, 11, 12 S., R. 9 W. and T. 11, 12 S., R. 8 W. (BLM).
 APACHE NO. 1 = Chloride District (SAN). T. 9, 10, 11, 12 S., R. 8, 9 W. (BLM). See Apache above.
 APACHE CANYON PLACERS = Pittsburg District (SAN).
 APACHE GULCH = Chloride District (SAN).
 BEAR CREEK = Chloride District (SAN).
 BEARDEN CANYON DISTRICT = Rhodes Canyon = San Andreas Mountains (in part) = San Andres Mountains (in part). Formerly in Socorro County, north of Rhodes Canyon. The Black Bear mine is in sec. 36, T. 12 S., R. 3 E. (SAN). Ba, Cu, Pb, Zn.
 BLACK RANGE. In old reports, includes Chloride, Hermosa, and Kingston districts (SAN).
 BLACK RANGE NO. 1 = Chloride District (SAN). In a list published in 1901, the Black Range No. 1 district was located in T. 9, 10 S., R. 9 W., near Grafton, while Apache No. 1 was located near Chloride in T. 10, 11 S., R. 9 W., and T. 12 S., R. 8, 9 W. (Note that T. 9 S., R. 9 W. is in Catron County.) T. 9, 10 S., R. 9 W. (BLM).
 BLACK RANGE NO. 2 = Kingston District (SAN). T. 15, 16 S., R. 8, 9 W. (BLM).
 BROMIDE = Bromide No. 1 = Tierra Blanca (SAN). T. 16, 17 S., R. 8 W. (BLM).
 BROMIDE NO. 1 = Tierra Blanca District (SAN).
 CABALLO = Caballo Mountains District (SAN). Sec. 16, T. 15 S., R. 3 W. (SIM).
 CABALLO MOUNTAINS DISTRICT = Caballo = Cutter-Engle Area (?) = Humboldt Camp = Las Palomas (in part) = Palomas Gap = Pittsburg (separate district) = Sierra Caballo = Sierra Caballos. In the past, generally called *Caballos Mountains* or *Sierra Caballo*. Caballo Mountains and Pittsburg are two separate districts: Caballo Mountains = T. 14, 15 S., R. 3, 4 W.; Pittsburg = T. 16 S., R. 4 W. (SAN). Ba, Cu, F, Fe, Mo, Pb, R.E., Th, U, V.
 CABALLO OR PITTSBURG. Two districts (SAN). Pittsburg = T. 14, 15 S., R. 4 W. (BLM). Caballo or Pitts-

burg = T. 14, 15 S., R. 4 W. (BLM). Caballo = T. 15 S., R. 3 W. (SIM). See above under Caballo Mountains District.
 CAMP KINGSBURY = Chloride District (SAN).
 CHLORIDE DISTRICT = Apache = Apache No. 1 = Apache Gulch = Bear Creek = Black Range (in part) = Black Range No. 1 = Camp Kingsbury = Chloride Gulch = Dry Creek = Fairview = Fluorine = Grafton = Hagan's Peak = Mineral Creek = Monument Creek = Phillipsburg = Pye = Robinson = Roundyville = Silver Monument = Silver Mount (probably) = Sullivan's Hole = Turkey Creek (Cuchillo Negro is a separate district (SAN).) A large district, chiefly in T. 9, 10, 11, 12 S., R. 9 W.; the north end of the district is in Catron County (SAN). Ag, Au, Cu, Pb, V.
 CHLORIDE GULCH = Chloride District (SAN).
 COPPER FLAT = Hillsboro District (SAN).
 CRISTOBAL = Fra Cristobal District (SAN).
 CUCHILLA NEGRO = Cuchillo Negro District (BMR).
 CUCHILLO = Cuchillo Negro District. T. 11 S., R. 7 W. (SIM).
 CUCHILLO NEGRO DISTRICT = Cuchilla Negro = Cuchillo = Limestone (?) = Sierra Cuchillo (in part). T. 11 S., R. 7 W., near Winston or Fairview (SAN). T. 11 S., R. 7 W. (BLM). Ag, F, Fe, Sn, U.
 CUTTER = Caballo Mountains District (SAN).
 DERRY DISTRICT = Derry Manganese = Red Hills. T. 16, 17 S., R. 4 W.; northeast of Derry and north of Hatch (SAN). Ba, F, Mn, Th, U.
 DERRY MANGANESE = Derry District (SAN).
 DRY CREEK = Chloride District (SAN).
 ENGLE AREA. Hickok mine, possibly Caballo Mountains District (SAN) (BMR). Town of Engle is T. 13 S., R. 2 W.
 ENGLE COAL FIELD. East and northeast of the Caballo Mountains. Not mined.
 FAIRVIEW = Chloride District (SAN).
 FLUORINE = Chloride District (SAN).
 FRA CRISTOBAL DISTRICT = Cristobal = Fra Cristobal Range = San Christobal Mountains = San Cristobal = San Cristobal Mountains. T. 10, 11 S., R. 2, 3 W. In the Pedro Armendaris Grant. There is an old mine in projected sec. 25, T. 10 S., R. 3 W., about 1 mile southeast of Fra Cristobal Peak (SAN). Cu, Mn, Pb, Zn.
 GOLD DUST = Las Animas Placer District (SAN).
 GOLDSBORO, GOLDSBOROUGH = San Mateo Mountains District (SAN).
 GOOD FORTUNE = Goodfortune Creek District (SAN).
 GOODFORTUNE CREEK DISTRICT = Good Fortune = San Andreas Mountains (in part) = San Andres Mountains (in part). T. 12 S., R. 4, 5 E. (BMR). Until 1951 in Socorro County. On the Salinas Peak quad. map, two mines are shown in the NW $\frac{1}{4}$, sec. 9, T. 12 S., R. 4 E. about $\frac{3}{4}$ mile west of Good Fortune Springs, and only 4 miles west-southwest of Pitt (Salinas Peak District) (SAN). Ag, Cu.
 GRAFTON = Chloride District (SAN).

- GRANDVIEW CANYON DISTRICT** = San Andreas Mountains (in part) = San Andres Mountains (in part). Until 1951 in Socorro County. In the south-east-center T. 15 S., R. 4 E. (SAN). Ba, Cu, W.
- GRANDVIEW CANYON PROSPECT AREA** = Grandview Canyon District.
- GREY EAGLE MINE** = Tierra Blanca District. The Grey (or Gray) Eagle mine is located on South Percha Creek, southwest of Kingston and northwest of the Lookout mine of the Tierra Blanca District. Although it has been assigned by some writers to the Kingston District, the Grey Eagle mine is herein assigned to the Tierra Blanca District. Not to be confused with another Gray Eagle mine in the Chloride District to the north (SAN).
- HAGAN'S PEAK** = Chloride District (SAN).
- HAGEN'S PEAK** = Hagan's Peak = Chloride District.
- HAYS GAP** = Lava Gap District. Hays Gap is located in the NW $\frac{1}{4}$ T. 10 S., R. 5 E. It is actually closer to some mines in the Mockingbird Gap District, but because the latter is in Socorro County, it seems more logical to assign the Hays Gap area to the Lava Gap District of Sierra County (SAN).
- HERMOSA DISTRICT** = Black Range (in part) = Palomas = Palomas Camp. T. 13 S., R. 8, 9 W. (SAN). Ag, Cu, Pb.
- HILLSBORO DISTRICT** = Copper Flat = Hillsborough = Las Animas = Wicks Gulch. T. 15, 16 S., R. 7 W. Note that the Las Animas Placer District has sometimes been included in the Hillsboro District (SAN). Ag, Au, Cu, Mn, Mo, Te, V.
- HILLSBOROUGH**. Variant spelling of Hillsboro (SAN).
- HOT SPRINGS DISTRICT** = Hot Springs = Iron Reef = Mud Springs = Sierra Cuchillo (in part, rarely) = T. or C. = Williamsburg. In the Mud Springs Mountains. East side T. 13 S., R. 5 W.; and SW corner of T. 13 S., R. 4 W. Named for the town that changed its name to "Truth or Consequences" (SAN). As, Cu, Mn.
- HUMBOLDT CAMP** = Caballo Mountains District (SAN).
- IRON MOUNTAIN NO. 2 DISTRICT** = Iron Mountain = Limestone (?) = Sierra Cuchillo (in part). Located at the north end of the Sierra Cuchillo, in sec. 2, 3, 11, 14, T. 10 S., R. 8 W. (Sierra) and in sec. 35, T. 9 S., R. 8 W. (Socorro) (SAN). Be, F, Fe, U, W.
- IRON REEF** = Hot Springs District (SAN). T. 13 S., R. 5 W. (BLM).
- KINGSTON DISTRICT** = Black Range (in part) = Black Range No. 2 = Ladrone Gulch Camp = Ladrone Gulch Camp = Lady Franklin Camp = Middle Percha Camp = Mineral Creek Camp = North Percha = North Percha Camp = Percha = Percha Camp = Perche (?) = South Percha (?) = South Percha Camp (?) = South Percha Creek (?). T. 15, 16 S., R. 8, 9 W. (SAN). (SIM). Ag, Au, Cu, Mn, Pb.
- LADRON (E) GULCH CAMP** = Kingston District (SAN).
- LADY FRANKLIN CAMP** = Kingston District (SAN).
- LAKE VALLEY DISTRICT**. T. 18 S., R. 7 W. (BLM). Ag, Mn, Pb, Perlite.
- LAS ANIMAS** = Hillsboro District plus Las Animas Placer District (SAN). T. 15, 16 S., R. 7 W. (BLM).
- LAS ANIMAS PLACER DISTRICT** = Animas = Animas Placer = Gold Dust = Hillsboro (in part) = Las Animas = Los Animas. According to Harley (1934) this district includes sec. 25, 36, T. 15 S., R. 7 W.; sec. 1, T. 16 S., R. 7 W.; sec. 29, 30, 31, 32, 33, T. 15 S., R. 6 W.; and sec. 4, 5, 6, 7, 8, 18, T. 16 S., R. 6 W. (SAN). T. 15, 16 S., R. 7 W. (BLM). Au.
- LAS PALOMAS** = Caballo Mountains and/or Pittsburg District. Not to be confused with Palomas Camp which is Hermosa District (SAN).
- LAVA GAP DISTRICT** = Hays Gap = Red Canyon (probably) = Thoroughgood Canyon. There is a fluor spar prospect in sec. 9, T. 10 S., R. 5 E. The Capitol Peak quad. map (1947) shows the Baso Four mine in sec. 30 and two other mines in SE $\frac{1}{4}$, sec. 29, west of Capitol Peak and between Lava Gap and Hays Gap. The Baso Four mine appears to be W.D. Johnston's (1928) "Lava Gap Prospect." Lava Gap is known as Thoroughgood Canyon, T. 11 S., R. 5, 6 E. (SAN). Ba, F.
- LIMESTONE**. Probably Iron Mountain No. 2 District. Has been assigned by some to Cuchillo Negro District (SAN). T. 10 S., R. 8 W. (BLM). Sec. 36, T. 10 S., R. 8 W. (SIM).
- LOS ANIMAS** = Las Animas Placer District (BMR).
- MACHO DISTRICT**. South of Lake Valley, chiefly in sec. 19, 20, 29, 30, 31, T. 19 S., R. 7 W. (SAN). T. 19 S., R. 7 W. (BLM). Ag, Pb.
- MIDDLE PERCHA CAMP** = Kingston District (SAN).
- MINERAL CREEK** = Chloride District, of some reports (SAN).
- MINERAL CREEK CAMP** = Kingston District, of some reports (SAN).
- MONTICELLO** = San Mateo Mountains District (SAN).
- MONUMENT CREEK** = Chloride District (SAN).
- MUD SPRINGS** = Hot Springs District (SAN).
- NORTH PERCHA (Camp)** = Kingston District (SAN).
- PALOMAS, PALOMAS CAMP** = Hermosa District (SAN). T. 13 S., R. 8, 9 W. (BLM).
- PALOMAS GAP** = Caballo Mountains District (SAN).
- PERCHA, PERCHA CAMP** = Kingston District, chiefly. Includes camps known as Middle Percha, North Percha, Mineral Creek, Ladrone Gulch (on Middle Percha Creek), and Lady Franklin. South Percha Camp has been assigned by some writers to the Kingston District but was assigned in 1959 by SAN to the Tierra Blanca District (SAN).
- PERCHE**. Kingston District, probably, but the Clason (1911) map shows it to be located at the settlement of Tierra Blanca, which, in turn, is located north-east of Bromide No. 1 District, now the Tierra Blanca District (SAN).

- PHILLIPSBURG = Chloride District (SAN).
- PIERCE CANYON = Tierra Blanca District; the iron deposit is in sec. 28 (SAN). Fe.
- PITT, PITT CAMP = Salinas Peak District. Formerly in Socorro County (SAN).
- PITTSBURG DISTRICT = Apache Canyon Placers = Las Palomas (in part) = Pittsburgh = Shandon = Shandon Placers. In a restricted sense, chiefly in sec. 16, 17, 20, 21, T. 16 S., R. 4 W. In some early reports, this district was extended to include the entire Caballo Mountains (SAN); "Pittsburg or Caballo" = T. 14, 15 S., R. 4 W. (BLM); Caballo Mountains District = T. 14, 15 S., R. 4 W. (SAN); T. 16 S., R. 4 W. = Pittsburg (SAN). Au, Ba, F.
- PITTSBURGH. Variant spelling of "Pittsburg".
- PITTSBURG (Shandon) = Sierra Caballo = Pittsburg District. T. 16 S., R. 4 W. Au.
- PYE = Chloride District (SAN).
- QUARTZ HILL = San Mateo Prospect Region.
- QUARTZ MOUNTAIN (s) = San Mateo Mountains District (SAN).
- RED CANYON = Lava Gap District, probably. Formerly in Socorro County. There are several other Red Canyons; in Socorro County, there is a West Red Canyon southwest of Rosedale and an East Red Canyon south of Rosedale; this leads into Red Canyon west of San Marcial. There is also a Red Canyon in the Luis Lopez Manganese District (SAN).
- RED HILLS = Derry District (SAN).
- ROBINSON = Chloride District (SAN).
- ROUNDVILLE = Chloride District (SAN).
- SALINAS = Salinas Peak District.
- SALINAS PEAK DISTRICT = Pitt = Pitt Camp = Salinas = San Andreas Mountains (in part) = San Andres Mountains (in part). T. 11, 12 S., R. 4, 5 E. Formerly in Socorro County. The Salinas Peak quad. map (1958) shows several mines northwest of Salinas Peak; the Salinas mine in NW $\frac{1}{4}$, sec. 1, T. 12 S., R. 4 E.; three mines in SE $\frac{1}{4}$, sec. 36, T. 11 S., R. 4 E.; and one mine in SW $\frac{1}{4}$, sec. 31, T. 11 S., R. 5 E. A New Mexico Highway Department map of 1937 shows the old camp of Pitt in sec. 36, T. 11 S., R. 4 E., and mines in sec. 1, 2, T. 12 S., R. 4 E. (SAN). Ba, Cu, F, Pb.
- SAN ANDREAS = Variant spelling of San Andres (Sierra-Dona Ana). T. 11, 12 S., R. 5 E.; T. 15 S., R. 4 E. (BLM). According to SAN, T. 11 S., R. 5 E. = Salinas Peak District; T. 12 S., R. 5 E. = Goodfortune Creek District; and T. 15 S., R. 4 E. = Grandview Canyon District.
- SAN ANDRES MOUNTAINS. A rather vague term used in early accounts for a number of districts then located in Socorro and Dona Ana counties. In 1951, the Socorro part of the range was transferred to Sierra County. May have referred to any one or all of the following: Bearden Canyon, Goodfortune Creek, Grandview Canyon, Hembrillo, Salinas Peak, San Andrecito, San Andres Canyon (SAN).
- SAN CRISTOBAL, SAN CHRISTOBAL (Mountains) = Fra Cristobal District (SAN).
- SAN MATEO = San Mateo Mountains District (SAN). T. 10 S., R. 5 W. (SIM).
- SAN MATEO MOUNTAINS DISTRICT = Goldsboro = Goldsborough = Monticello = Quartz Hill = Quartz Mountain = Quartz Mountains = San Mateo. T. 10 S., R. 5, 6 W. The Goldsborough "district" was located in the southern foothills of the San Mateo Mountains. The Quartz Mountain "district" was 2 miles from the southern end of the San Mateo Mountains and about 4 miles west of the Red Rock Ranger Station on the old Monticello Road (SAN). Ag, Au, Cu, Pb, U.
- SHANDON, SHANDON PLACER = Pittsburg District (SAN).
- SIERRA CABALLO (s) = Caballo Mountains District, in a restricted sense; may have included also the Pittsburg District (SAN).
- SIERRA CUCHILLO = Iron Mountain No. 2 District (at the north end) plus Cuchillo Negro District (at the south end). Formerly applied also to the Mud Springs Mountains (Hot Springs District) near Truth or Consequences (SAN).
- SILVER MONUMENT = Chloride District (SAN).
- SILVER MOUNT = Chloride District, probably (SAN).
- SOUTH PERCHA, SOUTH PERCHA CAMP, South Percha Creek. This camp, including the Grey (Gray) Eagle mine, has been assigned by some writers to the Kingston District but was assigned in 1959 by SAN to the Tierra Blanca District (SAN).
- SULLIVAN'S HOLE = Chloride District (SAN).
- SULPHUR CANYON DISTRICT = San Andreas Mountains (in part) = San Andres Mountains (in part). Formerly in Socorro County, T. 14, 15 S., R. 4 E., adjoining Grandview Canyon District (SAN). Cu, F.
- TAYLOR CREEK. See under Catron County.
- TAYLOR CREEK DISTRICT (Sierra-Catron). See under Catron County.
- THOROUGHGOOD CANYON = Lava Gap District.
- TIERRA BLANCA DISTRICT = Bromide = Bromide No. 1 = Gray Eagle = Grey Eagle = Pierce Canyon = South Percha = South Percha Camp = South Percha Creek. T. 16, 17 S., R. 8, 9 W. South of Kingston (SAN). Ag, Au, Cu, Pb.
- T. OR C. = Truth or Consequences = Hot Springs District (BMR).
- TURKEY CREEK = Chloride District. Grafton is on Turkey Creek. The Ivanhoe mine is in this district.
- WICKS GULCH = Hillsboro District (SAN).
- WILLIAMSBURG = Hot Springs District (BMR).

Socorro County

- ABBEY DISTRICT = Bear Mountain = Bear Springs (?). T. 1 N., R. 5 W. (BLM). Ba, Pb, U.
- ALAMILLO. A settlement directly west of San Acacia. Probably San Lorenzo District (SAN).
- AMY = Spring Hill District (SAN).

- BEAR MOUNTAINS = Abbey District (SAN).
- BEAR SPRING = Abbey District (?). Presumably in the Bear Mountains and may be in the Abbey District (SAN).
- BOX CANYON = Lemitar Mountains District (BMR).
- BURSUM'S = Hansonburg District (SAN).
- CANYONCITO (A) = Joyita Hills District. Not to be confused with the Canyoncito uranium prospects between Albuquerque and Laguna (SAN).
- CAROCITO = Scholle District (SAN).
- CARTHAGE. The Hansonburg District has often been called Carthage. Not to be confused with Carthage District or Carthage Coal District. (SAN).
- CARTHAGE DISTRICT = Formerly included in Hansonburg (SAN). T. 5 S., R. 2 E.; T. 4 S., R. 2 E. (SIM). T. 4, 5 S., R. 2 E. between San Antonio and Carthage Coal District. Not to be confused with the Hansonburg District (SAN). Cu, Pb.
- CARTHAGE COAL DISTRICT = Hansonburg, T. 5 S., R. 3 E. (SAN). About 12 miles east of San Antonio. Not to be confused with Carthage District or with Hansonburg District (SAN). Coal.
- CAT MOUNTAIN DISTRICT. T. 3 S., R. 5, 6 W. (BLM). Active (SIM). Ag, Au.
- CHLORIDE = Chloride District (Sierra) (SAN).
- CHLORIDE (APACHE). See Chloride District (Sierra). Assigned to Socorro County in 1883. North of Palomas District in Sierra County. Center of Black Range Mineral Belt (BMR).
- CHUPADERA = Chupadero District and/or Jones District (SAN).
- CHUPADERA MESA REGION. A very large area south of Mountainair and of the Estancia Valley (SAN). Chupadera Mesa Prospect Region T. 1, 2 N. and T. 1, 2 S., R. 1-9 E. = Chupadera District of some reports (BMR). Chupadera = Jones District. The Jones iron mine is located in T. 5 S., R. 7, 8 E. This should be called the Jones District and not Chupadera (SAN).
- CHUPADERA MOUNTAINS = Luis Lopez Manganese District (SAN).
- CHUPADERO DISTRICT = Chupadera = De La Parida = Del La Parida = La Parida. Northeast of Socorro, in T. 2, 3 S., R. 1 E. Also see Chupadera Mesa Region. Not to be confused with the village of Chupadera (Rayo District). Ba, Cu, F, Pb, U.
- COUNCIL ROCK DISTRICT = Galena = Iron Mountain No. 1 = Tenmile. T. 1, 2 S., R. 5, 6 W. About 10 to 12 miles northwest of Magdalena (SAN). Ag, Fe, Pb.
- COYOTE CREEK PROSPECT REGION (Socorro County designation in error) = Coyote Creek (Mora).
- CUCHILLO NEGRO. Now in Sierra County.
- DATIL MOUNTAIN COAL FIELD (Socorro-Catron-Valencia). See Datil Mountain Coal Field, Catron County.
- DEL LA PARIDA = De La Parida = La Parida = Chupadero District.
- DRIPPING SPRING = Mockingbird Gap District (SAN). T. 9 S., R. 5 E. (BLM).
- EAST MAGDALENA = Part of Magdalena District (SAN). T. 2 S., R. 3 W. (SIM).
- ENCARNACION = Socorro Peak District (SAN). T. 3 S., R. 1 W. (BLM).
- ENCARNACION (sic), LA = Encarnacion = Socorro Peak District. T. 3 S., R. 1 W. (BLM).
- ESTEY = Oscuro = Jones District.
- GALENA = Council Rock District (SAN).
- GENAROS (sic) DISTRICT. (SIM). Sec. 4, Concho Bluff mine sec. 4, T. 4 S., R. 3 W. "1½ miles northwest of Joe Gianero's place." (SIM). Might be assigned to Luis Lopez Manganese District (SAN). Mn.
- GRANDVIEW CANYON. Now in Sierra County.
- HANSON = Ladron District. Not to be confused with Hansonburg (SAN). T. 3 N., R. 2 W. (BLM).
- HANSONBERG. Variant spelling of "Hansonburg". (SAN).
- HANSONBURG DISTRICT = Bursum's = Carthage = Chloride = Chloride (Apache?) = Hansonburg = Headquarters = Mound Springs (in part) = Oscura = Oscura Mountains = Sierra Oscura (in part) = Silver Hill (rarely, in part). The Hansonburg mine is in sec. 1, T. 6 S., R. 5 E.; also numerous mines in sec. 25, 26, T. 5 S., R. 5 E.; sec. 30, 31, T. 5 S., R. 6 E.; and one mine in sec. 6, T. 6 S., R. 6 E. (SAN). Ba, Cu, F, Pb.
- HEADQUARTERS = Hansonburg District. In 1910, this district was reported to be located 25 miles east of Carthage and five miles north of Ozone; the latter place is shown on some maps as "Ozanne" (SAN).
- HOP CANYON DISTRICT. Located about 5½ miles south of Magdalena, on the west side of the Magdalena Mountains, midway between North Baldy and South Baldy. T. 3 S., R. 4 W. (SAN). Au.
- HOT SPRINGS. See under Sierra County.
- IRON MOUNTAIN = Iron Mountain No. 1 = Council Rock District. T. 1, 2 S., R. 6 W. (BLM).
- IRON MOUNTAIN NO. 1 = Council Rock District (SAN). T. 1, 2 S., R. 6 W. (BLM).
- IRON MOUNTAIN NO. 2 DISTRICT (Socorro-Sierra). See Iron Mountain No. 2 District, Sierra County.
- IRON REEF = Hot Springs District (Sierra) (BMR).
- JONES CAMP = Jones District.
- JONES DISTRICT = Chupadera = Chupadera Mesa (in part) = Estey (in part) = Jones Camp = Jones Iron = Oscuro (in part). In sec. 13, 14, 15, T. 5 S., R. 7 E.; sec. 19, 30, T. 5 S., R. 8 E., and sec. 9, T. 6 S., R. 7 E. (SAN). Fe.
- JONES IRON DEPOSIT = Jones District (SAN). Fe.
- JORNADA DEL MUERTO COAL FIELD. East and northeast of the Carthage Coal District. Not mined.
- JOYA MOUNTAIN = Rayo District (as shown on several early maps); may have referred to the Joyita Hills District, also (SAN).
- JOYITA HILLS DISTRICT = Canyoncito = La

- Joya = La Joyita = Los Canyoncitos = Manzanares (in part). Mostly in T. 1 N., R. 1 E., but extends a mile south. A few prospects are in Los Canoncitos, southeast of La Joya (SAN). Ba, F, Pb.
- KELLY = Magdalena District (SAN).
- KINGSTON. Now in Sierra County.
- LA DRON = Ladron District (BMR).
- LADRON DISTRICT = Hanson = La Dron = Ladron (e) Mountains = Ladron (e) Peak = Ladrones = Ladrones Mountain (s) = Sierra Ladrones. Prospects include the Juan Torres, in sec. 18, and the Rule, approximately sec. 14, T. 2 N., R. 2 W. In 1901, the Hanson "district" was reported to be located in T. 3 N., R. 2 W. (SAN). Ba, Cu, F, Mn, Pb, U, Zn.
- LADRON (E) MOUNTAINS, LADRON (E) PEAK = Ladron District (SAN).
- LADRONES, LADRONES MOUNTAIN (s) = Ladron District (SAN).
- LA ENCARNACION = Socorro Peak District (SAN). T. 3 S., R. 1 W. (BLM). See Encarnacion.
- LA JOYA = Joyita Hills District, generally, but sometimes the Rayo District (SAN).
- LA JOYA MOUNTAIN = Rayo District, apparently, according to the Clason (1911) map (SAN).
- LA JOYITA = Joyita Hills District (SAN).
- LA PARIDA = Chupadero District (SAN). T. 2 S., R. 1, 2 E. (SIM). Ba, Pb, U.
- LAVA STATION BAT CAVES. Bat caves said to be located 10 miles east of Lava Station and about 30 miles south of San Antonio; probably those indicated in projected sec. 19, T. 9 S., R. 1 E. on a topographic map (SAN). Guano.
- LEMITAR = Lemitar Mountains District (BMR).
- LEMITAR MOUNTAINS DISTRICT = Box Canyon = Lemitar = Limitar = Polvadero = Polvadera = Sierra Lemitar. T. 1, 2 S., R. 1 W. About 3½ miles west of Polvadera (SAN). Ba, Pb, U, Zn.
- LEMITAR PROSPECT REGION = T. 1, 2 S., T. 1 N., R. 2 W. = San Lorenzo = Polvadera = Sierra Lemitar = Lemitar Mountains District. Ag, Au, Cu, Mn, Pb, U, Zn.
- LIMITAR. Variant spelling of Lemitar. See Lemitar Mountains District.
- LITTLE BURRO = Mockingbird Gap District. T. 8 S., R. 5 E. (BLM). Little Burro Peak is in T. 9 S., R. 5 E. (SAN).
- LITTLE BURRO MOUNTAINS = Mockingbird Gap District (SAN).
- LITTLE BURRO PEAK = Mockingbird Gap District.
- LOS CANYONCITOS = Joyita Hills District.
- LUIS LOPEZ = Luis Lopez Manganese District (BMR).
- LUIS LOPEZ MANGANESE DISTRICT = Chupadera Mountains = Luis Lopez = Red Hills (in part) = San Antonio (in part) = Socorro Manganese. In the Chupadera Mountains, T. 4 S., R. 1 W.; several mines are shown in sec. 17, 20, T. 4 S., R. 1 W. There are also mines in sec. 12, T. 4 S., R. 2 W. (SAN). T. 4 S., R. 1 W. (SIM). Mn.
- MAGDALENA DISTRICT = East Magdalena = Kelly = Magdalena Mountains = Pueblo (North Magdalena District). Chiefly in sec. 19, 30, 31, T. 2 S., R. 3 W.; sec. 6, 7, T. 3 S., R. 3 W.; sec. 25, 36, T. 2 S., R. 4 W.; and sec. 1, 12, T. 3 S., R. 4 W. (SAN). T. 2, 3 S., R. 3, 4 W. (SIM). Ag, Au, Ba, Cu, Mn, Pb, Perlite, V, W, Zn.
- MAGDALENA (or Pueblo) = North Magdalena District (SAN). T. 2, 3 S., R. 3, 4 W. (BLM).
- MAGDALENA-KELLY DISTRICT. T. 2 S., R. 4 W. (SIM) = Magdalena District.
- MAGDALENA MOUNTAINS. USGS Professional Paper 68 says Magdalena District = T. 3 S., R. 3 W. May refer to Magdalena Mountains Manganese District.
- MAGDALENA MOUNTAINS MANGANESE DISTRICT = Magdalena Mountains (in part) (Lasky and Wootton, (1933) p. 113). In the southeastern part of the Magdalena Mountains. T. 4 S., R. 4 W. (SAN). Ag, Au, Cu, Mn, Pb, W, Zn.
- MANZANARES = Joyita Hills and Rayo districts, in part. As organized January 19 and recorded February 2, 1880, this district embraced an area of about a dozen townships! (SAN).
- MILL CANYON DISTRICT. T. 3 S., R. 4 W. About 7½ miles south of Magdalena; northwest of South Baldy, and about 2 miles south of Hop Canyon (SAN). Au, Cu.
- MOCKING BIRD = T. 8, 9 S., R. 5 E. probably (BLM). See Mockingbird Gap District.
- MOCKINGBIRD = Mockingbird Gap District (SAN).
- MOCKINGBIRD GAP DISTRICT = Dripping Spring = Hays Gap (?) = Little Burro = Little Burro Mountains = Mocking Bird = Mockingbird = Mockingbird Prospect Area. Chiefly in T. 9 S., R. 5 E. For location of several mines see the Mockingbird Gap (1948) and Capitol Peak (1947) quad. maps. Most of the mines are in Socorro County, but the Mockingbird Gap mine itself is in Sierra County, about 600 feet from the county line (SAN). Ba, Cu, F, Pb, Zn.
- MOCKINGBIRD GAP PROSPECT AREA. T. 10 S., R. 5 E. = Mockingbird Gap District.
- MOUND SPRINGS = Hansonburg District. Once reported to be located in T. 6 S., R. 6 E. Note that another Mound Springs is located in T. 10 S., R. 6 E., southeast of Mockingbird Gap, in Lincoln County (SAN). T. 6 S., R. 6 E. (BLM).
- NIGGER DIGGINGS, NIGGER DIGGINGS = (in part) San Mateo Prospect Region = San Jose District.
- NIGGER DIGGINGS DISTRICT = Nigger Diggings. Reported to be located in the southern part of the San Mateo Mountains about 4 miles southwest of the Rhyolite mine of the San Jose District. This would place it in the SE¼, T. 9 S., R. 6 W., close to the Socorro-Sierra county line. Probably prospects chiefly (SAN). Ag (?), Cu, Pb.
- NOGAL = San Jose District (SAN).

- NOGAL CANYON** = San Jose District (BMR).
- NORTH MAGDALENA DISTRICT** = Pueblo = Pueblo Springs = Silver Hill (in part). T. 2 S., R. 4 W. (SIM). Ag, Au, Ba, Cu, Pb, V, Zn.
- OJO CALIENTE** = Ojo Caliente No. 2 District (SAN).
- OJO CALIENTE NO. 2 DISTRICT** = Ojo Caliente = Taylor Prospect. The Taylor Prospect is in sec. 5, 8, T. 9 S., R. 7 W. (SAN). Ag, Cu, Pb, Zn.
- OSCURA** = Oscura Mountain = Estey District (Lincoln). T. 7, 8 S., R. 6, 7 E. (BLM).
- OSCURA MOUNTAINS** = Sierra Oscura (SAN).
- OSCURA, OSCURA MOUNTAINS** = Hansonburg District, generally. The Clason (1911) map shows this district at Ozanne, 10 miles southeast of Hansonburg. In 1901, the Oscura "district" was reported to be in T. 7 S., R. 6 E., which would place it between the Hansonburg and Estey districts. Some early references to the Oscura "district" may have applied to the Estey District of Lincoln County. See also *Oscuro*. T. 7, 8 S., R. 6, 7 E. (BLM).
- OSCURO** = Jones District (SAN). "Bingham Property" = T. 4 S., R. 7 E. (SIM), is north of the Jones District.
- PALOMAS**. See under Sierra County.
- PITTSBURG AND CRISTOBAL**. Two districts now in Sierra County: Pittsburg and Fra Cristobal. (BMR).
- POLVADARO**. Misspelling of "Polvadera". (SAN).
- POLVADERA** = Lemitar Prospect Region = Lemitar Mountains District.
- PUEBLO (or Magdalena)** = Pueblo, Pueblo Springs = North Magdalena District. (SAN). T. 1, 2, 3 S., R. 3, 4 W. (BLM).
- PUEBLO, PUEBLO SPRINGS** = North Magdalena District. In 1901, the Pueblo district was reported to be located in T. 1 S., R. 4 W.; but most of the mines and prospects appear to be in T. 2 S., R. 4 W. (SAN).
- QUARTZ HILL** = San Jose District.
- RAYO DISTRICT** = Joya Mountain = La Joya (in part) = La Joya Mountain = Manzanares (in part). T. 1 S. and T. 1 N., R. 4, 5 (?) E. (SAN). Cu.
- RED HILL** = Luis Lopez Manganese District. Old reports refer to another Red Hill "district" in Socorro County, west of Rosedale in T. 6 S., R. 8 W. However, the Clason (1911) map places it in the San Jose District, a considerable distance to the southeast (SAN). T. 6 S., R. 8 W. (BLM). May be an error (SAN).
- RED RIVER**. June Bug mine (SIM).
- RHODES CANYON**. T. 13 S., R. 3 E. 19 to 22 miles east of Engle = Bearden Canyon District, now in Sierra County.
- RHYOLITE** = San Jose District (SAN).
- ROSEDALE DISTRICT**. T. 5, 6 S., R. 5, 6 W. In the San Mateo Mountains (SAN). T. 6 S., R. 5, 6 W. (BLM). Ag, Au.
- ST. FELCITE, ST. FELICITE**. See Santa Felicita "district" (SAN).
- SALINAS** = Salinas Peak District (Sierra). T. 12 S., R. 5 E.
- SAN ACACIA** = San Lorenzo District, generally (SAN).
- SAN ANDREAS**. See San Andres Mountains under Sierra County.
- SAN ANTONIO** = Luis Lopez Manganese District, generally. Sometimes applied to Carthage and/or Hansonburg districts (BMR).
- SAN JOSE DISTRICT** = Goldsborough = Jose = Nigger Diggings = Nogal (in part) = Nogal Canyon = Quartz Hill = Red Hill (in part) = Rhyolite = San Mateo = Taylor. The main part of the district is in T. 8, 9 S., R. 5 W. The Nogal mines are in sec. 29, T. 8 S., R. 5 W.; the Rhyolite mine workings are in sec. 7, 8, 17, 18 (?), T. 9 S., R. 5 W. (SAN). T. 8 S., R. 5 W. (BLM). Ag, Au.
- SAN LORENZO DISTRICT** = Alamillo = San Acacia (generally). About 7 miles west of San Acacia. Probably in T. 1 N. and 1 S., R. 1, 2 W., at the north end of the Lemitar Mountains (SAN). Cu, Mn, U.
- SAN MATEO MOUNTAINS**. Formerly applied to several districts in Socorro County. See also under Sierra County (SAN).
- SAN MATEO PROSPECT REGION**. Goldsborough = Nigger Diggings = Quartz Hill = San Jose = Taylor = San Jose District. T. 5, 6, 7, 8, 9, 10 S., R. 5, 6, 7 W.
- SANTA FELICITA**. Exact location problematical. Also referred to in early accounts (1880-85) as St. Felcite and St. Felicite "district". Possibly this is Socorro Peak District or a northern continuation (SAN).
- SCHOLLE DISTRICT** = Abo = Avo = Carocito = Manzana (in part) = Spiegelburg Camp (in part). T. 1, 2 N., R. 5 E., principally (SAN). T. 1 N., R. 5, 6 E. (SIM). Ag, Cu, U.
- SCHOLLE-RAYO DISTRICT**. T. 1, 2 N. and T. 1 S., R. 5 E. Note two districts.
- SIERRA LADRONES** = Ladron District (SAN).
- SIERRA LEMITAR PROSPECT REGION** = Lemitar Mountains District.
- SIERRA OSCURA**. See under Lincoln County.
- SILVER HILL** = North Magdalena District. In certain old accounts, applied also in Socorro County to a group of claims in the old Headquarters "district", now the Hansonburg District. Not to be confused with Silver Mountain which is the Water Canyon District (SAN).
- SILVER MOUNTAIN** = Water Canyon District (SAN). T. 2, 3 S., R. 3, 4 W. (BLM). T. 4 S., R. 2 W. and T. 3 S., R. 3 W. (SIM).
- SOCORRO**. T. 3 N., R. 4 W. (SIM). Northeast of Spring Hill District and northwest of Ladron District (SAN).
- SOCORRO** = Socorro Peak District, generally (SAN). T. 3 S., R. 1 W. (BLM).
- SOCORRO MANGANESE** = Luis Lopez Manganese District (SAN).
- SOCORRO MOUNTAIN** = Socorro Peak District (SAN).
- SOCORRO PEAK DISTRICT** = Encarnacion = Encarnation = La Encarnacion = La Encarnation

= St. Felcite (?) = St. Felicite (?) = Santa Felicitita (?) = Socorro = Socorro Mountain = Strawberry. T. 2, 3 S., R. 1, 2 W. About 4 miles west of Socorro. T. 3 S., R. 1 W. (BLM). Ag, Ba, Pb, Perlite. SPIEGELBURG CAMP. A large, loosely defined "district", including the Abo Pass area, the southern Manzano Mountains, and sometimes also the Scholle District (SAN).

SPRING HILL DISTRICT = Amy. Probably in NW $\frac{1}{4}$, T. 2 N., R. 5 W., just south of Puertecito. The old Amy District (here included in the Spring Hill District) was about 7 miles to the southwest of the restricted Spring Hill District. Mostly copper prospects (SAN). Cu.

STRAWBERRY = SOCOITO Peak District (BMR).

TAYLOR = T. 9 S., R. 7 W. = San Mateo Prospect = Ojo Caliente No. 2 District.

TAYLOR PROSPECT = Ojo Caliente No. 2 District (SAN).

TENMILE = Council Rock District (SAN).

TORREON SPRINGS. Between Luis Lopez Manganese and Magdalena Mountains Manganese districts. Buena Vista mine is in sec. 2, T. 5 S., R. 3 W. (SIM). Mn chiefly.

WATER CANYON DISTRICT = Silver Mountain. T. 3 S., R. 3 W. Chiefly in sec. 21, 22, 27, 28, T. 3 S., R. 3 W., east of Hop Canyon and Mill Canyon districts (SAN). "Silver Mountain" = T. 2, 3 S., R. 3, 4 W. (BLM). Active (SIM). SIM gives El Tigre mine. Ag, Au, Ba, Cu, Mn, Pb, Zn.

Taos County

ALUM GULCH = Red River District (SAN).

AMIZETT (E) = Twining District (SAN).

ANCHOR DISTRICT = Keystone = La Belle = Midnight = Red River (in part). T. 29 N., R. 14, 15 E. Located from 3 to 6 miles northeast of Red River (SAN). Au.

ARROYO HONDO = Twining District. The Rio Hondo flows southwestward from Twining and Amizette, northwest of Wheeler Peak, to the vicinity of Valdez, in T. 27 N., R. 13 E.; from here westward to the Rio Grande, it is called *Arroyo Hondo*. Not to be confused with the Hondo Canyon District of southern Taos County. There are several other Arroyo Hondos (SAN).

BLACK COPPER = Red River District. Black Copper = T. 29 N., R. 15 E. (1901); Red River = T. 28 N., R. 14 E. (1901). T. 28 N., R. 14, 15 E. (BLM).

BLACK MOUNTAIN = Red River District (SAN).

CABRESTO LAKE PROSPECTS. Approximately east-center of T. 29 N., R. 13 E., about $3\frac{1}{2}$ miles north of Red River, between Red River and Questa (SAN). Fe.

CERRO MONTOSA DISTRICT. T. 29 N., R. 11 E. (SIM). Perlite.

CIENEGUILLA = Glenwoody = Cienequilla, a misspelling of "Cieneguilla" = Picuris District (BMR). The village of Cieneguilla is now known as Pilar. T. 24 N., R. 11 E. (BLM).

COPPER HILL = Picuris District (SAN).

COPPER MOUNTAIN = Picuris District (SAN). T. 23 N., R. 11 E. (BLM).

COSTILLO. Prospects (BMR). Cu, Mica.

DIXON = Harding Mine = Picuris District (BMR).

EMBUDO = Harding Mine District. Embudo itself is in Rio Arriba County (SAN).

GLASS MINE = Harding Mine District (SAN).

GLENWOODY = Cieneguilla = Cienequilla = Glenwoody = Picuris District = Pilar. Along the Rio Grande near Glenwoody Bridge, in the NE $\frac{1}{4}$, T. 23 N., R. 10 E., and in the NW corner of T. 23 N., R. 11 E., and through the middle of T. 24 N., R. 11 E. (SAN). Au.

HARDING = Harding Mine District (SAN) = Picuris District (BMR).

HARDING MINE = Dixon = Embudo = Glass Mine = Harding = Lepidolite = Lepidolite Mine = Lithia Mine = Picuris District. The Harding mine is in SW $\frac{1}{4}$ sec. 29, T. 23 N., R. 11 E., and about 5 miles east of Dixon. Regarded as separate district by SAN, but as part of Picuris District by BMR. The Champion mine and others on Copper Hill are along the north side of sec. 20; the tungsten mine is in the east-center of sec. 16. T. 23 N., R. 10 E. and T. 23 N., R. 11 E. (SIM). Be, Li, Optical Calcite, Ta.

HONDO CANYON = Picuris District (BMR). In T. 24 N., R. 11, 12 E., northeast of Pilar. Not to be confused with the Arroyo Hondo area (which see). Chiefly prospects. Kyanite, Sillimanite.

KEYSTONE = Anchor District. T. 29 N., R. 15 E. (BLM). See Red River District.

LA BELLE = Anchor District (SAN).

LEPIDOLITE, LEPIDOLITE MINE = Harding Mine District (SAN) = Picuris District (BMR).

LITHIA MINE = Harding Mine District (SAN) = Picuris District (BMR).

LOWER RED RIVER = Red River District.

MIDNIGHT = Anchor District (SAN).

MOLY = Red River District.

NO AGUA DISTRICT = San Antonio Mountain. North of the Petaca District and Tres Piedras. In a wide sense, the district extends from near the Rio Grande through No Agua Mountain to San Antonio Peak in Rio Arriba County (SAN). T. 29 N., R. 9 E. (SIM). Perlite, Scoria (BMR).

PENASCO = Picuris District (SAN). T. 23 N., R. 12 E. (SIM).

PICURAS = Picuris District (BMR).

PICURIS DISTRICT = Copper Hill = Copper Mountain = Dixon = Glenwoody = Harding Mine = Hondo Canyon = Penasco = Picuras = Rinconada = West Picuris. T. 22, 23 N., R. 11, 12 E. (SAN). Copper Hill is north of the Harding Mine; Copper Mountain is northeast of the Harding Mine; and Copper Ridge is northwest of Picuris Pueblo. See Harding Mine entry. Ag, Au, Be, Cu, Li, Ta, W.

PILAR = Glenwoody = Picuris District. Pilar formerly was called Cieneguilla (SAN).

QUESTA = Red River District (SAN).

RED HILL = Red River District Manganese Prospect (BMR) (Pratt, Pellium Lode, Pinabete Manganese Prospect). Mn.

RED RIVER DISTRICT = Alum Gulch = Black Copper = Black Mountain = Lower Red River = Moly = Questa = Sulphur Gulch. In a broader sense, included: Anchor = Keystone. T. 28, 29 N., R. 13, 14, 15 E. In 1901, the Red River District was said to be located in T. 28 N., R. 14 E., and the Black Copper "district" in T. 29 N., R. 15 E. The Black Copper mine is about 5 miles west-northwest of Elizabethtown. Possibly Black Copper should be assigned to the Anchor District. The Red River District has also been subdivided into the Anchor and Red River (restricted) subdistricts (SAN). T. 28 N., R. 14 E. (BLM). T. 28 N., R. 13 E. = Moly mine (SIM). Ag, Cu, Mo, Pb, Te.

RIO COLORADO PLACERS DISTRICT. Southwest of Questa, apparently near junction of Red River and Rio Grande (Clason, 1911, map). T. 28 N., R. 12 E. Au placer.

RIO GRANDE PLACER REGION AND WILLOW CREEK. See Rio Grande Valley District.

RIO GRANDE PLACERS = Rio Grande Valley District (SAN).

RIO GRANDE VALLEY DISTRICT = Rio Grande Placer = Rio Grande Placers. In a restricted sense, T. 25, 26 N., R. 11, 12 E. Also, in a wider sense, from Glenwoody northward for several miles; sometimes extended as far north as Questa (SAN). Au placer.

RIO HONDO = Twining District. Not to be confused with the Hondo Canyon District. T. 27, 28 N., R. 13, 14 E. (BLM).

SAN ANTONIO MOUNTAIN = No Agua District. Perlite, Scoria.

SANTA LUCIE = Copper Hill = Picuris District.

SIERRA LEMITAR = Lemitar Prospect Region (Socorro). Error in literature.

SULPHUR GULCH = Red River District (SAN).

TAOS. Not recognized as a district. According to the Clason (1911) map, the Taos "district" was located a few miles southeast of Taos. The name has been loosely applied (SAN). SIM reports Taos quarries as T. 22 N., R. 11 E. (Stone). Also Tojos pit as T. 23 N., R. 13 E. (Mica) as "Taos Mining District". These two locations are near the Picuris District (SAN).

TRES PIEDRAS. Has been applied to Cerro Montosa and No Agua districts.

TWINING DISTRICT = Amizett = Amizette = Arroyo Hondo = Rio Hondo. T. 27, 28 N., R. 14 E. The center of the district is about 8 to 9 miles west of Elizabethtown; this district adjoins the Red River District (SAN). Au, Cu, Pb, Zn.

UTE CREEK. See Baldy District, Colfax County.

WILLOW CREEK = T. 27 N., R. 16 E. = Baldy District (Colfax). This was in Taos County before Colfax County was created.

Torrance County

ABO = Scholle District in Socorro and Torrance counties (SAN). See also Spiegelburg Camp (Socorro). T. 2 N., R. 5 E. (SIM). Ag, Cu, U.

Avo = Abo. Variant spelling of "Abo". See Spiegelburg Camp (Socorro) (SAN).

BARTON. Not a district; T. 9 N., R. 7 E., east of Tijeras Canyon District (BMR). Ba.

BIG SALT LAKE = Estancia Salt District (SAN).

BLACKINGTON AND HARRIS IRON PROSPECT. Not a district. Sec. 29, T. 1 N., R. 6 E., east of the Rayo District (SAN). Fe.

CHUPADERA MESA REGION (Torrance-Socorro). See under Socorro County.

ESTANCIA SALT DISTRICT = Big Salt Lake = Laguna del Perro = Laguna Salina. Chiefly in T. 4, 5, 6 N., R. 9 E. (SAN). Salt.

LAGUNA DEL PERRO = Estancia Salt District (SAN).

LAGUNA SALINA = Estancia Salt District (SAN).

MANZANO, MANZANO MOUNTAIN. A copper-ore district, in T. 5 N., R. 5 E., according to the Clason (1911) map. This would place it west of the village of Manzano. The term *Manzano* was also used in a broader sense to designate the entire Manzano Mountains area; in some reports it may have referred to part of the Tijeras Canyon District. See Spiegelburg Camp (Socorro) (SAN).

MANZANO MOUNTAINS. A northward extension of Los Pinos Mountains of Socorro County from Abo Pass to the Manzanita Mountains near Tijeras Canyon (Bernalillo). In early accounts, included the Manzanita Mountains (SAN).

MUD SPRINGS. A southeastward extension of the Scholle District, or possibly an eastward extension of the Rayo District. The Clason (1911) map locates the Mud Springs "district" between Scholle and Gran Quivira. This probably is the Blackington and Harris Iron Prospect (SAN).

SCHOLLE DISTRICT (Torrance-Socorro). See under Socorro County.

SPIEGELBURG CAMP. See under Socorro County.

Union County

BLACK MESA DISTRICT = Dry Cimarron. Mostly in T. 32 N., R. 35 E., but including also T. 31, 32 N., R. 34, 35, 36 E. (SAN). T. 31 N., R. 35, 36, 37 E. (BLM). Cu.

DES MOINES. Not a district (BMR). Vandaveer (Red Rock) sec. 22, T. 29 N., R. 29 E. (SIM). Scoria.

DRY CIMARRON = Black Mesa District or Folsom District (BMR).

FOLSOM DISTRICT = Dry Cimarron. Mostly in T. 31 N., R. 30, 31 E., about 15 to 20 miles northeast of Folsom (SAN). Cu. Also T. 30 N., R. 29 E. (SIM). Scoria.

Valencia County

AMBROSIA LAKE DISTRICT (Valencia-McKinley). *See* under McKinley County. T. 12 N., R. 9 W. (SIM).

BLUE WATER PROSPECT REGION = T. 12 N., R. 11 W. = Ambrosia Lake District. U.

CEBOLLETA = Laguna District (BMR).

COPPER HILL = Zuni Mountains District (SAN).

COPPERTON = Zuni Mountains District (SAN).

DATIL MOUNTAIN COAL FIELD (Valencia-Socorro-Catron). *See* under Catron County.

EAST GRANTS RIDGE. A few miles northeast of Grants. Has been included in Grants District, now designated as Ambrosia Lake District. Probably should be considered a separate district (SAN). Perlite, Pumice.

GAY EAGLE. Probably Ambrosia Lake District (McKinley-Valencia).

GRANT = Grants district of McKinley and Valencia counties. Some years ago, the U.S. Board on Geographic Names rendered an official opinion that the correct name of the town was "Grant", not "Grants", but this ruling has been generally disregarded by the inhabitants (SAN).

GRANTS = Ambrosia Lake District. *See* under McKinley County.

GRANTS URANIUM AREA = Ambrosia Lake District (McKinley-Valencia), chiefly (BMR) (SAN).

GRAY EAGLE = Ambrosia Lake District (McKinley-Valencia) (BMR).

HELL CANYON. Belvidere Group. (SIM-1962), sec. 28, 29, T. 8 N., R. 5 E. Active = Tijeras Canyon District (Bernalillo). Ag, Au, Cu, Pt (?) reported.

ISLETA = Isleta Indian Reservation. Not a district. Black Bird mine produces scoria.

LAGUNA DISTRICT = Cebolleta = Paguete = Pajuete. T. 8, 9, 10, 11 N., R. 3, 4, 5, 6 W. The Jackpile, Windwhip, North Jackpile, and Woodrow mines are northeast of Laguna and southeast of Paguete. T. 10, 11 N., R. 5 W. Active (SIM). U, V.

LITTLE BURRO MOUNTAIN. Error in print. *See* Grant County for Little Burro Mountain District.

MANZANA = Scholle District (Socorro-Torrance-Valencia), in part; *see also* the Manzano entry under Torrance County.

MANZANO MOUNTAIN (Valencia-Torrance). *See* under Torrance County.

MONTEZUMA = Zuni Mountains District (SAN).

MOUNT TAYLOR. The Clason (1911) map shows this Mount Taylor "district" as having copper and lead ores. Recently, uranium claims in T. 13 N., R. 9 W., west of San Mateo, have been assigned to the

"Mount Taylor Mining District", which is the Ambrosia Lake (formerly Grants) District of McKinley-Valencia counties (SAN). T. 12, 13 N., R. 9 W. (SIM).

MOUNT TAYLOR COAL FIELD (Valencia-McKinley). *See* under McKinley County.

NEW CORNWALL = Zuni Mountains District. In 1882, tin was reported 6 miles south of Cranes on the Atlantic and Pacific Railroad and the townsite of New Cornwall was laid out (SAN).

PAJUATE. Variant spelling of "Paguete", about 8 miles north of Laguna. *See* Laguna District (SAN).

RED GATE. Not a district. Romero mine is in sec. 28, T. 6 N., R. 3 W. in Lucero Mesa region (SIM). Open pit. Cu.

REDROCK CANYON. Error in literature.

RIO PUERCO. *See* Travertine or Mexican Onyx Marble.

SAN MATEO COAL FIELD (Valencia-McKinley). *See* under McKinley County.

SAN MATEO URANIUM AREA (Valencia-McKinley). *See* under McKinley County.

SPIEGELBURG CAMP. *See* under Socorro County.

SUN'S MOUNTAIN = Zuni Mountains District. Low Lease mine is in sec. 29, T. 10 N., R. 11 W. about 12 to 14 miles southwest of Grants (SIM). F.

TRAVERTINE OR MEXICAN ONYX MARBLE. T. 5 N., R. 2 W. (SIM). West of Belen. Not a named district, apparently (SAN). Travertine.

UNORGANIZED = T. 12 N., R. 9 W. (BLM) = Ambrosia Lake District (SAN).

ZUNI COAL FIELD (Valencia-Catron). *See* Gallup-Zuni Coal Basin under McKinley County.

ZUNI MOUNTAIN = Zuni Mountains District (SAN). T. 11 N., R. 12 W. (BLM).

ZUNI MOUNTAINS DISTRICT = Copper Hill = Copperton = Montezuma = New Cornwall = Zuni Mountain. T. 9, 10, 11 N., R. 11, 12 W. A large district, chiefly in T. 9, 10, 11 N., R. 11 W. (SAN). Ag, Au, Ba, Cu, F, U.

Unknown County

AGUA DEL LOBO DISTRICT. Location is not known (BLM). Included in a 1901 list of districts (SAN). It may be noted that there is a Lobo Peak in the Twining District (Taos) and a Lobo Draw in the Florida Mountains (Luna). A mining district by this name was included in a list of the records of the Surveyor General's Office with the notation: "Not designated or described in the records of the surveyor general's office".

SPRING HILL. "Ruins of Old Pueblo" (BLM). Location unknown. Probably in Socorro County.

Appendix

Highlights in the Development of New Mexico Mineral Resources

The early history of mining in New Mexico has been treated by several writers. Northrop (1959, p. 9-46) gives a chronological summary of highlights covering the period 1535-1956. The term "district" was not generally applied until the decade 1870-80.

Cabeza de Vaca, in 1535, as the first visitor to New Mexico told of seeing turquoise at the farthest northern point reached by him, possibly in southern New Mexico. His party was given a copper rattle, "silver" and "antimony". Indians told them of copper deposits (probably Santa Rita) .

Chroniclers of Francisco Vasquez de Coronado's expedition in 1540-42 noted the occurrence of salt at Quemado or Zuni Salt Lake, and of turquoise, garnets, and "two points of emerald".

In 1563 Francisco de Ibarra found traces of metal having been smelled at a pueblo called Paquemi, somewhere to the right of Coronado's route. Further dates and discoveries important in New Mexico mining history, arranged chronologically, include:

1581.—*Rodriguez* - Chamuscado expedition noted various metals and ores including a "copperish steel-like metal" from the Cerrillos area and salt from Estancia, apparently first minerals mentioned *in situ*.

1583.—*Don* Antonio Espejo and Fray Bernardino Beltran visited deposits on the Pecos River, then known as Rio de las Vacas, along the Rio Grande, and in the Cerrillos-Ortiz Mountains area.

1590.—*Don* Gaspar de Sosa allegedly had assays made of ores from Cerrillos area.

1595-1602.—*Vincente* de Zaldivar Mendoza described discovery of "mines" at "San Mateo" and "Anunciacion" and told of working them with his servants and household. The description given in the Zaldivar inquiry in 1602 says the mines of the Anunciacion were near a huge salt deposit.

1598.—*Don* Juan Onate noted deposits of sulfur and "alum" at Jemez Springs, and salt at Estancia and near Zuni.

1600.—*Onate* and his party celebrated "a great mining discovery" and began extracting silver, according to a letter from his brother, Luis Nunez Perez.

1604.—Azurite and a green mineral, probably malachite, reported in the Jemez country by Onate.

1607.—*John* Smith landed in Jamestown.

1620.—*The* Pilgrims landed at Plymouth Rock, 22 years after Onate claimed New Mexico for Spain.

1621-26.—*Padre* Salmeron noted "rich mines" (prospects) near Cia, Sandia, and Acoma.

1629.—*Salmeron* noted alum, copperas, garnet, lodestone, salt, sulfur, and turquoise; also ores of silver, copper, and lead.

1630.—*Prosperous* "mines" noted at Socorro by Fray Alonzo Benavides. Also reported deposits of alum, garnet, salt, turquoise, and ores of silver and lead.

1653.—*Santa* Rita copper deposits known.

1655.—*Goodfortune* Creek in Sierra County was being mined by Marguerito Lucero, a Spanish explorer. Dr. C. F. Blackington reopened the mine many years later and called it the Goodfortune mine.

1660.—*Salt* was being sent from Estancia salt lakes to Chihuahua silver mines, 700 miles distant.

1680.—*Pueblo* Indian revolt drove Spaniards from New Mexico and mining was stopped for several years. The use of Indians in mining is generally credited as being part of the cause of the uprising. Ortiz mine, in Old Placers district, reported to be in operation.

1685.—*First* mining claim recognized by historians: Pedro de Abalos claim (cited in Introduction) in Fra Cristobal Mountains.

1692.—Reconquest of New Mexico by Governor don Diego de Vargas.

1694.—*Vargas* attempted to open a lead mine that had been worked by his father near San Marcos, but found the Indians had filled it up.

1697.—*Vetancurt* noted copper, gypsum (selenite) , jet, lodestone, salt, turquoise; vein ores of lead and silver near Cerrillos.

1700.—*Spaniards* returning to New Mexico were pro-

hibited from engaging in mining. Indians were recovering copper in Central region of Grant County.

1709.-*Juan de Uribarri* registered two mines.

1713.-A mine in Rio Arriba County was registered.

1714.-*Transfer* of ownership of a mine in Sierra de San Lazora, Old Placer Mountain is recorded.

1717.-A grant of a lead mine was made in Cerrillos district.

1722.-*Gold* was being mined at Mina de la Tierra, Cerrillos district.

1725.-An official report stated that no gold or silver mines were worked in 1725.

1732.-*George* Washington was born, 130 years after Onate was made first Governor of New Mexico.

1744.-*The* mine, Nuestra Senora del Pilar de Zaragoza, was registered by Don Magrinan of Santa Fe. Some mining was conducted in 1744 in southwestern New Mexico, largely by prospectors from the south.

1748.-*Villasenor* reported a few unprofitable and abandoned mines near Albuquerque.

1751-1800.-*Occasional* mention of mineral wealth but New Mexico industries were agriculture, stock raising, and barter.

1776.-*July* 4, Declaration of Independence.

1798.-*Apache* Indians credited with discovery of Santa Rita (but see under 1653 and 1700) .

1800.-*Santa* Rita and Santa Clara (Pinos Altos) copper mines opened.

1803-1804.-*Santa* Rita development commences. Central district worked by Europeans.

1807.-*Pike* reports copper, gold, muscovite, and salt.

1821.-*New* Mexico becomes a province of Mexico, which had won its independence from Spain.

1822.-*Santa* Fe Trail established.

1824.-*Spring* caravan over Santa Fe Trail brought \$30,000 in goods to New Mexico and traders returned with \$180,000 in gold and silver and \$10,000 worth of furs.

1826.-*Placer* gold found in Rio Hondo district.

1827.-*Pattie* reports Santa Rita mine worked by Spanish.

1828.-*Old* Placers (Ortiz) discovered by a sheepherder in Santa Fe County. Accredited by some historians as first gold mining in New Mexico after the Pueblo Revolt of 1680. It took 3 months for the news to reach Missouri, 800 miles away.

1829.-*Gold* rush to Georgia. A few years later gold was discovered in Alabama.

1833.-*Lode* gold worked at Ortiz property, Old Placers; but note that the Ortiz mine had been reported as early as 1680.

1835.-*Anthracite* mined at Madrid for local use.

1837.-*Typhoid*, followed by smallpox killed off 1/10 of New Mexico inhabitants by 1840.

1838.-*Three* mints established: Charlotte, North Carolina; Dahlonega, Georgia; and New Orleans, Louisiana.

1839.-*Placer* gold discovered at New Placers in San Pedro Mountains.

1840.-*Longfellow* mine was worked in Bernalillo County.

1841.-*Thomas* Falconer reports gypsum (selenite) , salt.

1843.-*Nugget* weighing 7 pounds taken from New Placers. Santa Ana closed the Santa Fe Trail in this year.

1843-45-*Troubles* with the Texans.

1844.-*Santa* Fe Trail reopened. Major copper production starts from Central area, Grant County. Gregg describes gold, gypsum (selenite) , petrified wood, salt, and ores of copper, lead, iron, silver, and zinc. Deputy Costanares from California reported to Mexican Congress that gold placers existed 40 miles northwest of Los Angeles.

1846.-*Santo* Nino mine recorded in the Real San Francisco del Tuerto, New Placers district. End of the Mexican War-New Mexico incorporated into the United States.

1847.-*Copper* ore was being mined by a "Frenchman" in Coyote Creek district, Mora County, and Stephenson-Bennett mine (silver and lead) discovered in the Organ Mountains of Dona Ana County.

1848.-*Gold* "discovery" in California. Guadalupe Hidalgo Treaty deeded New Mexico to the United

States along with California, Arizona, Nevada, Utah, and part of Colorado and Wyoming. J. S. Hutchason staked out a lode in the Ortiz district and later discovered the Magdalena district in Socorro County.

1849.—*Gold* mined in 1849 in the seven states ceded to the U.S. in 1848, produced an equivalent of three times the amount paid for them. Stage line from Independence to Santa Fe. First known mining in San Andres and Organ mountains, Dona Ana County. Lt. J. H. Simpson visited abandoned copper smelting furnace near Jemez Springs.

1850.—*New Mexico* became a Territory of the U.S. and placer gold was found near Jicarilla, Lincoln County. Lode prospecting began in the 80's.

1851.—*Mines* at Baxter Gulch near Carrizozo, Lincoln County. One silver and three copper mines reported in this year in the 1860 census, in Dona Ana County.

1854.—*Lordsburg* district opened. First claim in 1870.

1858.—*Ore* was being shipped from Hanover mine, Grant County, to the Texas coast. Mining operations began in Fort Stanton area.

1859.—*Copper* discovered at Abiquiu, Rio Arriba County. Placer gold discovered at Pinos Altos. Gold near Fort Stanton.

1860.—*Pinos Altos* and Nogal districts discovered. Pinos Altos was the third significant discovery of gold in the State. Daisy mine located in Fremont prospect region.

1861.—*Civil War* began. Confederate invasion suspended mining. Carthage coal mined by Ft. Craig troops.

1863.—*Pueblo Springs* (North Magdalena district) discovered in Socorro County by Pete Kinsinger, a soldier. This was the first important silver discovery in the State.

1865.—*Mining* resumed in several areas following the Civil War. Quartz mill built at Ortiz mine. Las Cruces furnaces at work on Organ Mountain ore. Three hundred miners working at Pinos Altos. Placer gold at Dry Gulch, Nogal' district, Lincoln County. Sierra Blanca, Lincoln County, systematic prospecting started.

1866.—*Rich* placers found at Elizabethtown, Moreno Valley, Colfax County. Lead-silver ores at Magdalena, Socorro County. Silver ores at Georgetown (Mimbres district), Grant County. Quartz lode found in Nogal

district, Lincoln County. Copper discovered near Fort Union.

1867.—*Pinos Altos* development. Gold near Taos. Red River area worked. Fifty silver mines known in Organ Mountains. Silver ore in Socorro Peak. Lode mining resumed at Pinos Altos following Civil War. E-Town boom began. Placer gold discovered on Ute Creek near Baldy Mountain. Willow Creek district in Colfax discovered. Bullion from Graphic and Juanita mines in Socorro County hauled by wagons over the Santa Fe Trail to St. Louis. First stamp mills in New Mexico at Pinos Altos and at Ortiz mines.

1868.—*Water Canyon* and Ladron districts in Socorro County discovered. "Big Ditch" started, 41 miles long, (1868-1869) from Red River to Elizabethtown. Aztec lode said to be richest discovery in West, in Baldy district, Colfax County. First lode claims made in Nogal district. A smelter was operated a short time at Red River.

1869.—*According* to Reeve (1961, v. 2, p. 244-245), the Chama mining district of Rio Arriba County was organized May 25, 1869, and "shall extend from two miles west of the Arroyo Seco ten miles down the river Chama and shall include all territory for 2 1/2 miles on each side of the river."

1870.—*Silver* at Chloride Flat near Silver City. Lordsburg district prospected and first claim filed. Cat Mountain district prospected in Magdalena area, Socorro County in the 70's. Apache No. 2 district, Hidalgo County, discovered in 1870's. Silver lodes at Shakespeare, Hidalgo County, disclosed. Kimball district prospected but Indians drove prospectors away. Lead bullion shipped from Magdalena mines.

1871.—"*Bonanza*" silver ores discovered in Lone Mountain district, southeast of Silver City. Chloride Flat active but Boston Hill prospecting seemed unproductive. Copper discovered in Burro Mountains, Tyrone area. Earliest metal mining in Hachita district, Grant and Hidalgo counties. Silver discovered in Black Hawk district, Burro Mountains.

1872.—*Prospecting* in Hansonburg area. Operations stopped at Ralston (Shakespeare) for lack of machinery. Georgetown silver lodes were being worked. "Ruby district" in Rio Arriba County showed some activity.

1873.—*Hansonburg* district prospected, Socorro County. Activity in old districts, especially in Socorro and Grant counties.

1875.—*Mogollon* and Steins Pass districts prospected.

High-grade copper-silver ore discovered at Mogollon (Cooney, Alma, Glenwood) but was closed in 1880 by Indian raids and reopened in 1905. Eureka district discovered.

1876.—*Gold* in Cooks Peak district but first major location not until 1880 in this area.

1877.—*Rich* placers and gold-bearing quartz veins near Hillsboro, in Las Animas district.

1878.—*Silver* ore discovered at Lake Valley, Sierra County, with Bridal Chamber one of richest lodes of silver in the world. Prehistoric turquoise workings found near Hachita, Eureka district. First railroad track laid in New Mexico, Nov. 30.

1879.—*Santa Fe* Railroad reached Las Vegas. Ore discovered in Cerrillos district of Santa Fe County and Macho district of Sierra County. Smelter built at Red River. Gold, copper, and zinc found in Sierra Cuchillo prospect region, Socorro and Sierra counties. Ore deposits in Hermosa district discovered. A lode being worked at foot of Baxter Mountain, Lincoln County, was first lode discovery made in White Oaks district. Prospecting in Jarilla Hills, Otero County, but no real mining until 1899. Ore discovered in Chloride district in Sierra County by Henry Pye. Modoc located. Wilcox prospect region discovered south of Mogollon. Orogrande district being prospected. New developments at Hillsboro, Ft. Stanton, Sandia Mountains, Manzano Mountains, Los Cerrillos, Taos, and Moreno districts. 1879-1882—*Railroads* were constructed. Practically all precious and base-metal producing districts were discovered and developed in this period.

1880.—*Bonanza* City and Carbonateville staked out, and boomed until 1902. 1879-1880 boom in mining brought influx of capitalists and prospectors from the East. Victorio district, Luna County, active (1880-1886) . Steeple Rock district, Grant County, discovered, Placer gold at Hachita. Prospectors swarm into Chloride district, Sierra County. Red Bandana group discovered at Elizabethtown. Silver discovered at Kingston, Sierra County. White Oaks town staked out in 1880. General U. S. Grant visited New Placers district. Fremont district discovered. Gold and silver in Mora area. Silver and copper at Turkey Mountains, northeast of Ft. Union. Silver found northwest of Las Vegas. Tecolote had rich developments in silver. Ten stamp mills in Dona Ana County and at Hillsboro. Cochiti district prospected in Sandoval County, destined to be opened in 1889. Tierra Blanca, Bromide No. 1 district, Sierra County, and the Pecos, Willow Creek, Tererro, Cowles, Cooper, and Valley Ranch districts discovered in San Miguel County. Southern Pacific Railroad reached Lordsburg. Socorro Peak district scene of much activity in the 80's. Gallup coal being used by railroads and smelters.

1881.—A smelter was built at Socorro (closed in 1893) . Graphic smelter was built in 1896 at Magdalena. Rich float discovered in Black Hawk district. Steeple Rock district, Grant County, prospected. Bromide-Hopewell district, Rio Arriba County, gold discovery. Silver in Telegraph district, Grant County. Lead, zinc, silver, copper, and gold in Florida Mountains in Luna County. First modern prospecting in Nacimiento district of Sandoval and Rio Arriba counties and some evidence found of early Spanish mining. Anderson and Telegraph districts prospected. Headstone district lode discovered. Lead in Caballo Mountains. Council Rock and Cuchillo Negro districts opened. Stamp mill erected at Santa Rita. Nearly 3,000 locations made in Socorro County in 6 months. One hundred locations in Tres Hermanas district. Dispatches from Socorro mentioned mining districts of Alameda, Bear Springs, Black Range, Chloride Gulch, Cristobal, Ladron, La Joyita, Limitar, Mimbres, Mogollon, Polvadera, Pueblo, San Mateo, San Pedro, San Zaro, and Silver Mountain. Railroad built through Dona Ana County.

1882.—*New Mexico Mining Association* organized. Hells Canyon subdistrict organized. Rosedale discovery, San Mateo region. Copper in St. Felicite district. Camp Fleming discovered six miles northwest of Silver City. Memphis mine discovered in Dona Ana County. Big strike in Telegraph district. San Mateo prospect region discovered. Small smelter built at Shakespeare, Lordsburg district, Hidalgo County. New Mexico had first mill with mechanical concentrator built at Pinos Altos. First records of coal production for railroad use.

1883.—*Gold* Camp prospected. Nambe, San Pedro, New Placers were producing. Rich silver strike at Kingston. Pecos mine at Tererro in San Miguel County discovered. 1883-90—Prospecting and development in Kimball district, Hidalgo County. Deming and Pacific Railroad completed to Silver City. Smelters were in operation in Socorro, Deming, Santa Rita, San Jose, Silver City, Shakespeare, San Pedro, Paschal. Contracts were let for a smelter at Wallace. In Los Cerrillos a smelter ran for a short time. A smelter known as Lake Valley Mills and Smelter closed down in 1883. Smelters also operated at Hanover, and Hachita.

1884.—*Discoveries* of Separ district (Gold Hill) and Malone district, Grant and Hidalgo counties. Placer mining had been carried on for a number of years in the Malone area previous to this date. Small smelter built at Memphis mine, Dona Ana County. Lake Valley was in the limelight with its silver production.

1885.—*Earliest* list of mining districts made showed Grant had 21, Socorro 13, Sierra 10, Taos 6, Lincoln 6, Bernalillo 6, San Miguel 6, Dona Ana 4, Santa Fe 2, Valencia 2, Colfax 1, and Mora 1. Silver price

dropped from \$1.07 an ounce to below \$0.60 in late 1880's. Gallinas Mountains, Lincoln County, producing ore. Tres Hermanas, Luna County, opened. Rose-dale in Socorro County in operation. Stamp mill erected on the Gila River. Black Hawk district boomed, 1885-1887. Kingston district was active. New smelter built at Silver City.

1886.—*First* locations in Fremont district, Hidalgo and Luna counties. The Standard Mill was built in Gold Hill district. Company formed to operate Rosedale mine, San Mateo district, Socorro County.

1887.—*Lead* smelter built at El Paso. Black Hawk district boomed. Chloride tried unsuccessfully to get a railroad spur. Lease system made its appearance in Sierra County.

1888.—*Coal* mines operating in Gallup area and Cerrillos district.

1889.—*Granite* Gap mine, Hidalgo County, San Simon district, discovered. Boom in Cochiti district. Brief oil boom in McKinley County. Colorado Fuel and Iron Co. moved into Madrid coal field. Lake Valley, Kingston, and Hillsboro produced precious metals. The custom smelting works in practical operation in New Mexico during 1889 were those of the Rio Grande Smelting Company at Socorro.

1891.—*Cyanide* process perfected in South Africa and gold mining was revolutionized. Silver discovery in Pinos Altos district. Santa Fe got its first commercial electricity. 1891-1931—Iron ore from Socorro and Lincoln counties being shipped to Colorado Fuel and Iron Co. at Pueblo, Colo. Systematic iron mining began in Fierro-Hanover district. Railroad built to Hanover mine. Iron mine discovered at Fierro.

1892.—*Pinos* Altos produced one-half of gold produced in Territory.

1893.—*Boom* at Amizette, Rio Hondo-Twining district, Taos County. Silver demonetized, followed by a panic. Prospectors turned from silver to gold. Black Hawk, Lake Valley, and other silver-producing districts shut down. Some prospecting at Red River. Billings smelter was shut down at Socorro.

1894.—*Rush* to Questa district, Taos County. Production started at Bland, Cochiti district, Sandoval County. Telephones installed at Santa Fe.

1895.—*Canyoncito* district in Joyita Hills discovered in Socorro County.

1896.—*Graphic* smelter built at Magdalena. Gold discovered in Cimarroncito district, Colfax County. Woodbury mill built near Bland in Cochiti district.

1897.—*Closing* of Carlisle mine in Steeple Rock district ends first period of major production in that district. Next period of productive activity was 1932-1947.

1898.—*Turquoise* deposits developed at Orogrande. Railroads built into Grant County copper area.

1899.—*Torpedo* ore body discovered in Dona Ana County. First metal mining in Jarilla Hills, Otero County.

1900.—*Jones* Camp district iron deposits discovered in Socorro County. Low-grade copper found in Burro Mountains. Zinc production developed at Kelly and Magdalena in Socorro County. Thomas Edison erected a plant at Dolores to extract ore using static electricity which failed because dry gravels could not be obtained. Picuris, Rociada, and Tecolote districts being developed. Former Governor O. A. Hadley of Arkansas did development work in Rociada district. Estey district established in Lincoln County, with a large electrolytic plant of 100-ton capacity. Black Mesa deposits discovered in Union County. Additional development recorded in Sierra Cuchillo area. Railroad and smelter demands expand coal production.

1901.—*First* gold discovery of importance in Sierra Caballo region, Sierra and Dona Ana counties. Gold and silver at San Lorenzo (Lemitar) area of Socorro County. Gold dredge operated in Moreno Valley. Bland and Albemarle thriving gold camps in Bernalillo (now Sandoval) County with ores being treated at Albemarle mill. Other mining camps in Bernalillo County were Hell Canyon, Coyote Canyon, Las Placitas, San Isidro, Copper City, Algodones. Sulfur was being produced near Jemez Springs. Placers were active in Rio Chama area. Socorro smelter was sold to American Smelting and Refining Company and dismantled. Bureau of Immigration reports "79 official mining districts and 754 patented claims in the Territory" but explained there were 300 districts and 1,000 claims not patented.

1902.—*Silver* City smelter discontinued. Copper smelter built at Douglas, Arizona. Copper ores developed in Burro Mountains. Smelter erected at Cerrillos. Governor Otero calls attention to oil in Carlsbad area. Copper ore in the Burro Mountains. Silver strike at Chloride Flat. Phelps-Dodge purchased the Hanover mine. Jones Camp and Glenwoody districts established. Mining started in Cat Mountain district, Socorro County.

1903.—*Importance* of gold-mining industry (Cochiti district) resulted in splitting off of Sandoval County from Bernalillo County. Gold rush to Hillsboro. Leaching plant built near mill on Gila River, Telegraph district, but silver ore body was exhausted and plant

abandoned in 1905. High-grade zinc ores associated with lead ores found in Magdalena.

1904.—*The Tularosa* (Bent) district in Otero County was created and development began. Magdalena was leading in zinc production and held this rank until 1920. Two smelters operating in Silver City. Copper deposits reported in Scholle-Raygo area.

1905.—*Zinc* production began in Central and Pinos Altos areas, Grant County. Mogollon district opened again for activity which continued until 1917 and was re-activated 1931-47. Carpenter district in Grant County prospected. Phelps Dodge purchased copper property at Leopold.

1906.—*Sampling* of great copper deposit at Santa Rita started which was to result in open-pit mining of low-grade ores and development of Chino as one of the Nation's major copper mines. Daily automobile service from Tarrance to Roswell and Silver City to adjoining camps, and Albuquerque to Estancia Valley.

1907.—*Mill* built at Royal John mine, Grant County.

1908.—*Boom* at Sylvanite. La Luz mine near crest of Sandias being developed. Vanadinite recognized in Caballo Mountains.

1909.—*First* oil discovery in southeast at Dayton. California district in southwest Grant County (now Hidalgo County) organized. Vanadium discovered in Palomas Gap area. Small plant built at Cutter to treat vanadium ores, but soon closed down. Test wells for oil in Pecos Valley near Artesia.

1910.—*Chino* Company begins open-pit operations at Santa Rita. Lead ore shipments were made from Tijeras Canyon district to Joplin, Missouri. Rare-metals prospecting in Sierra County. Activity at Red River, Mogollon, Steeple Rock, Orogrande, Hillsboro, and Magdalena, Hells Canyon, Hansonburg, and Black Hawk.

1911.—*Rush* of activity as oil is discovered in Seven Lakes area of McKinley County.

1912.—*New Mexico* admitted to the Union. Magdalena Mountains Manganese district, Socorro County discovered. Steam-shovel mining started at Chino Copper. 1912-20—Considerable activity in Elizabethtown area.

1914.—*World War I* began. Sanford and Stone cited 70 minerals available in New Mexico. First locations in Magdalena Mountains Manganese district, Socorro County, in Water Canyon. Concentrating mill at Chloride; concentrating mill at Leopold; sixty-stamp amalgamation and concentration mill at Carlisle mine

at Steeple Rock; amalgamation and concentration mill and cyanide plant operating at the Minnehaha Group mines; 50-ton concentrating mill operated by the Cavern Gold Mining Company at Albuquerque; concentrating mill and crushers operated at Chino Copper Company, Santa Rita; five-stamp amalgamation mill and cyanide plant at Red River; Bland operated a twenty-stamp concentrating mill and 100-ton cyanide plant; 15-stamp concentrating mill and 75-ton cyanide plant at Deadwood-Sunburst mines, Mogollon; 40-stamp mill and cyanide plant at the Ernestine Mining Company, Mogollon. Concentrating mill operated at Florence Mining Company at Tusas; 10-stamp mill and cyanide plant at Elizabethtown; tube mill and cyanide plant operating at Chloride; crusher, tube mill, and cyanide plant operating at Cooney, Enterprise and Perseverance mines; 40-stamp amalgamation and concentration mill and 25-ton cyanide plant at Aztec mine; cyanide plant and roll mill at Organ; concentrating mill at Golden; amalgamation mill and cyanide plant at White Oaks; concentrating mill at Magdalena; crusher and concentrating mill at El Porvenir; copper-smelting plant with one blast furnace at San Pedro; concentrating mill and smelting plant operating at Silver City; concentrating mill at Bent.

1915-1919.—*Mines* in Tecolote district of Lincoln County producing iron.

1916.—*Metal* mining stimulated by war, prospered 1916-1918. All-time high record of silver produced. True nature of molybdenum veins at Questa, Taos County, recognized. Previously molybdenum was mistaken for graphite and the yellow molybdic ochre (ferrimolybdite) for sulphur.

1917.—*First* production reported from High Rolls district in Otero County.

1918.—*World War I* ended. Prospectors looking for gold found tin in Taylor Creek area of Socorro-Catron counties. Mrs. A. A. Leach identified two uranium-bearing minerals, torbernite and autunite, in New Mexico. Cooks Range Manganese district located. First manganese ore shipped from Little Florida Mountains area, Luna County.

1919.—*Oxides* of uranium and vanadium recognized in Cochiti area. Molybdenum production started on a small scale at Questa.

1920.—*Red River* district became second largest producer of molybdenum in U. S. Potash was identified at Carlsbad, foretelling birth of a new industry in New Mexico which began operations 11 years later. La Bajada Copper Company developed a mine in the La Bajada area. Pastura district, Guadalupe County, developed in 1920's. Gas discovered at Aztec.

1921 -Gas at Ute Dome.

1922 -Rapid recovery of mining started, with expansion to 1929.

1923.-Gas found in Grayburg Formation at Artesia.

1924.-*Southeastern* New Mexico becomes largest oil-producing area of State. State Land Office receives first oil royalty check. Oil discovered at Artesia and at Bloomfield.

1925.-*Minerals* not heretofore recorded in U.S. were first found in Carlsbad potash field. List includes apthitalite, kainite, kieserite, langbeinite, leonite, lueneburgite, and polyhalite. Operations suspended in Mogollon district. Gas at Barker Creek and oil at Table Mesa.

1926.-*Modern* concentrating mill built at Pecos mine in San Miguel County. Gas at Blanco.

1927.-*Willow* Creek mine ranked as largest individual producer of lead, gold, and silver in State and maintained that rank for 13 years. A concentrating mill in Zuni Mountains prospect region was destroyed by fire. Lea County led in oil production. State Bureau of Mines and Mineral Resources established.

1928.-*Groundhog* mine, Central area, Grant County, discloses large body of complex ore. Hobbs-San Andres oil pool discovered. Another depression retards mining.

1929.-*Artesia* oil area extended.

1930.-*Copper* price collapsed from 18 cents to less than 10 cents per pound. Vanadium-uranium in a third occurrence reported from Scholle district, Socorro County. Oil found at Henshaw, Artesia area.

1931.-*Mogollon* district resumed operations after 1925 shutdown. Fierro iron mine suspended operations. U. S. Potash started production near Carlsbad, the first mining of potash in the U. S.

1932.-*Price* of copper declined to less than five cents per pound. Oil and gas industry firmly established in New Mexico. Major oil pipelines extended into State's oil-producing areas.

1933.-*Price* of gold raised to \$25.56 per ounce. Potash Company of America started production near Carlsbad.

1934.-*Price* of gold raised to \$34.95 per ounce, followed by a boom in small gold operations in many prospects. Some had been closed since 1917-1918. Burton-Yates discovery at Artesia. Oil at Red Mountain.

1935.-*Production* at Mogollon once again important.

1938.-*New Mexico* ranked 13th in 48 States in total value of mineral products. All-time high in value of gold produced \$1,506,750.

1939.-*World War II* began-mining gets a boost. Pecos mine in San Miguel County shut down.

1940.-*Union* Potash and Chemical Co. starts production at Carlsbad. Hobbs booms with discovery of oil. Queen oil discovery at Caprock. Refinery completed at Prewitt.

1941.-*U.S.* enters World War II. Nearly all metal mines in State active.

1942.-*Gold* order stops production of gold. 1942-1945 was a period of great expansion in New Mexico mining. Luis Lopez district active, 1942-1945, as an important source of manganese. Extensive exploration for strategic and critical minerals; among these were tin, beryllium, tungsten, iron, manganese, mica, fluorite. First self-sustaining chain-reacting uranium pile was completed and operated at University of Chicago. Mogollon shut down after substantial period of operation since 1931. Camp Bobcat in Hidalgo County discovered as possible manganese, zinc, and molybdenum area. Oil production boom.

1943.-*More* than 82 percent of potash produced in U. S. came from New Mexico.

1944.-*Beryl* being shipped from the State. Three hundred-ton fluorspar mill was completed at Gila. USBM explored Capitan region, Lincoln County, and continued exploration in 1947-1948.

1945.-*July 16*, first atomic bomb exploded at Trinity Site. War Production Board lifted ban on gold mining and all lands containing minerals were withdrawn from sale. New era of uranium prospecting opened for New Mexico.

1946.-*Copper*, potash, and petroleum lead the minerals produced in New Mexico. Uranium discovered near Grants.

1947.-*Oil* and gas at Kutz Canyon (Angel Peak) .

1948.-*New Mexico* ranks 12th among the 48 states in mineral production. Mill built at San Antonio, Socorro County.

1949.-*Los Alamos* County established. Mining declined 1949-50. Gas at Gavilan and La Plata pools and oil at Lindrith.

1950.-*Haystack* Mountain uranium discovery near

Grants, Valencia County. Uranium discovered in Gray Eagle district, Valencia and McKinley counties; Poison Canyon, McKinley County; La Bajada area, Santa Fe County. Korean War begins. AEC sets up buying office at Bluewater and Grants.

1951.—*McPhaul* Ranch area in Catron County discovered but no production achieved. Anaconda Copper Co. builds mill at Bluewater to treat uranium-vanadium ores. Jackpile mine located. Most mines again producing.

1952.—New Mexico ranked first in 48 states in potash production and carbon dioxide (uranium and strategic items were not reported). New Mexico ranked second in beryl, manganiferous ore, perlite, and pumice, and third in copper and manganese ore, and fourth in fluor spar and molybdenum. 1952-1962—Pipelines built for gas from San Juan Basin to West Coast markets.

1953.—*Gold* production lowest in 87 years, silver production lowest since 1903 but the value of mineral production in New Mexico reached a record high. Zinc and lead price declines led to closing of zinc and lead mines, but manganese production was stimulated, as was potash and uranium production. Large uranium operations were under way in Grants district, McKinley County, and Laguna district of Valencia County. Coal production had decreased to 580,000 tons, the lowest in the 49-year period, 1905-1953.

1954.—*The* Jackpile mine hailed as the largest uranium mine in the United States.

1955.—New Mexico ranked 7th in petroleum, 5th in copper, 1st in potash. Fluor spar production ceased because of flood of imports. Sheet mica production doubled. Beryl and iron production increased. Forty-five active manganese mines were listed in Socorro, Sierra, and Luna counties but the manganese-ore purchasing depot at Deming was closed November 30 with its quota filled. Ambrosia Lake district was discovered when oil well cuttings disclosed uranium. Oil northeast of Lovington.

1956.—*Substantial* increases were recorded in the output of petroleum, potash, copper, natural gas, natural gas liquids, sand and gravel, manganese ore and concentrate, zinc, lead, helium, perlite, magnesium compounds, salt, silver, gold, and columbite-tantalite. New Mexico's mineral output reached a new record of \$513 million in 1956—a gain of \$77 million over the \$436 million total for 1955. A portion of this increase was due to the first-time inclusion in the reporting of a value for uranium. Interest in uranium in 1956 reached a new peak in New Mexico particularly in Valencia and McKinley counties. The Atomic Energy Commission announced that New Mexico had 41 million tons of uranium reserves—two thirds of the

national total. Five Carlsbad companies were active producers of potash in 1956, and many improvements were reported at their mines and refineries. A sixth company—National Potash Co.—entered the field in 1956. The near completion of the sixth potash mine in New Mexico and the first in Lea County dominated the news of the industry in 1956. New Mexico led the Nation in production of potash.

1957.—*Prosperity* in terms of increased output for some commodities and recession in the form of serious production cutbacks for others characterized the mineral industry. Output and value of the liquid fuels and of potash, and of sand and gravel increased significantly. While producers of copper, lead, and zinc reported decreases in output as a result of substantially reduced prices for these metals, uranium ore shipments were larger but producers actually realized less dollar return because the grade of ore was lower. The aggregate increase in the value of the output of some of the principal minerals—primarily liquid fuels—was greater than the combined losses for others and therefore the total value of the mineral production in New Mexico (\$553 million) for 1957 showed a net gain of 7 per cent above 1956 (\$513 million). Two pipelines were under construction during the year. They were the Four Corners pipeline from the Aneth area in Utah and the San Juan Basin in New Mexico to Los Angeles, Calif. and the Texas-New Mexico Pipe Line Co. pipeline from the Aneth area in Utah through the Bisti field in San Juan County to join existing facilities at Jal in Lea County. A 7,200-barrel-a-day refinery was completed by El Paso Natural Gas Products Co., 10 miles east of Gallup in McKinley County. Construction was started by the Ideal Cement Co. on a 1-million-barrel dry-process facility at Tijeras, 16 miles east of Albuquerque. Estimated cost of the Ideal project was \$12 million. New Mexico led the Nation as a source of perlite, and the output in 1957 was valued at \$1.6 million. Great Lakes Carbon Corp. announced the opening of its El Grande perlite deposit in the No Agua region of northern New Mexico at what was reportedly the world's largest known deposit of uniform commercial-grade perlite. To exploit this deposit, a new crushing and sizing plant was under construction. Farm Chemical Resources Development Corp. was sinking the first shaft of the seventh potash mine in the Carlsbad district. Sand and gravel production increased for the second consecutive year with an increase of 32 per cent over the preceding year. The principal sand-and-gravel-producing counties were Bernalillo, Otero, San Juan, Valencia, Socorro, and Torrance. All molybdenum concentrate produced in New Mexico in 1957 originated as a by-product of copper ore from the Chino open-pit mine in Grant County by the Kennecott Copper Corp. and milled at Hurley. Molybdenum Corp. of America continued its exploration and development program at the Questa mine in Taos County. The development of uranium ore bodies in

the Ambrosia Lake area in McKinley County was of outstanding importance in 1957. Four mills were being built in the Ambrosia Lake area with a total daily capacity of 7,275 tons. Uranium production was reported in 11 counties, the major part from McKinley and Valencia counties.

1958.-The mineral industry of New Mexico felt the effects of the recession in business activity in 1958. The value of nonmetal output declined \$5.2 million and that of metals \$7.3 million. Gains were realized in the mineral-fuels group resulting from \$10.3 million and \$9.3 million increases in the value of crude oil and natural gas respectively as well as smaller advances for **LP-gases and carbon dioxide. No new uranium mills** or processing plants were started in 1958 but Homestake-Sapin Partners' and Homestake-New Mexico Partners' uranium mills in Valencia County and two in McKinley County were completed and placed in operation in 1958. The two in McKinley County were the Phillips Petroleum Co. and Kermac Nuclear Fuels Corp. mills. With the operation of these processing facilities, uranium milling capacity for the State increased from 3,800 to 11,075 tons a day. Coal output from 24 mines producing 1,000 tons or more in six counties, chiefly Colfax and McKinley, declined 15 percent from 1957. The decline was due largely to a fire in the Koehler mine in Colfax County where production dropped 21 percent. Production in McKinley County decreased 10 percent. Sand and gravel established a record of 13.2 million tons, 65 percent above 1957. The stimulus for this increased production continued to be the various highway programs. The Eunice plant of El Paso Natural Gas Co. was the only active sulfur-producing facility.

1959.-Developments of interest in the construction materials industry were the initial operation in 1959 of the first cement plant in the State, the start of construction of a gypsum plant between Santa Fe and Albuquerque, and an announcement of plans to build a similar plant at Albuquerque. The total value of all mineral production rose to \$592.5 million, a 6-percent increase over the \$559.8 million reported for 1958. Portions of the State's mineral industry were affected by local and national factors that tended to limit output particularly in the metals field. **A copper strike** during the last half of the year resulted in a \$4.8 million decrease in copper output. Major lead and zinc mines shut down during the latter part of 1958, were not reopened until mid-1959. A reduction of the output of manganese ore resulted from the termination of the government purchase program for this metal in August. A \$21.2 million increase in the value of uranium ore output prevented an over-all drop in the total value of metallic minerals produced in 1959. A \$172 thousand increase in the value of molybdenum and vanadium produced also helped raise the value for the group to \$82.6 million, a 23-percent gain over

1958. Producers in the minerals fuel group reported gains in output for all commodities except carbon dioxide and helium. Value of nonmetals **produced advanced** to \$94.3 million, a gain of 10 percent over 1958, and accounted for 16 percent of **the total value of mineral production.** A \$5 million increase in potash production, a \$1.9 million gain in sand and gravel output, and the production of cement for the first time in the history of the State were the principal reasons for the gain. A new supply of helium-rich gas, containing 5 to 6 percent helium, was developed and transported to the Shiprock plant which had been idle since October 1958, but production of helium in 1959 was 43 percent below 1958. Petroleum production exceeded 100 million barrels for the first time in 1959; the output of 105.7 million barrels was 7 percent greater than 1958.

1960.-A spectacular 33-percent advance in the value of metals output was attributed to uninterrupted operations following the settlement of labor strikes that occurred in the copper industry in 1959 and to a general increase in the production of uranium ore. The recovery of certain segments of the mineral industry of New Mexico from production cutbacks during 1957-59 was indicated by an over-all 10-percent increase in the value of output for 1960 (\$652.2 million) , compared with 1959 (\$592.5 million) . Beryllium, manganese, and molybdenum in the metals group, and fluorspar, magnesium compounds, sheet mica, perlite, pumice, and sand and gravel in the nonmetals category were the only commodities for which a lower output was recorded in 1960 but the drop in total value for these products was more than offset by large production gains reported for other minerals. While the value of some nonmetals produced and sold in 1960 advanced substantially, the over-all increase for the nonmetals group was only 3 percent above 1959. Higher values for potash, stone, lime, and gypsum were nearly offset by the \$6.1 million decline in the value of sand and gravel and pumice output. The expansion in the construction-materials segment of the minerals industry was highlighted in 1960 by the initial operation in May of a wallboard plant between Santa Fe and Albuquerque and the completion and start of operation of a second wallboard plant at Albuquerque. The Pittsburg and Midway Coal Co. of Pittsburg, Kansas began stripping overburden from a coal bed west of Gallup. Coal production was scheduled to begin January 1962, the output to be used at a 110-megawatt thermal-electric generating plant at Joseph City, Ariz., to be built by the Arizona Public Service Co. Official approval was granted by the U.S. Department of the Interior for constructing a 350-megawatt thermal-electric generating plant on the Navajo Indian Reservation to be built and operated by Arizona Public Service Co. and named the Four Corners Powerplant. The acreage necessary was leased from the Navajo Tribal Council. Fuel for the plant

was to be mined by Utah Construction and Mining Co. from 24,300 acres of undeveloped tribal lands, the Navajo Tribe to receive a royalty of 15 cents a ton based on the minimum production of 800,000 tons in 1963, increasing to 2.5 million tons in 1975. Coking coal was produced at Koehler, and large strip mines were opened in McKinley and San Juan counties. Pan American Petroleum Corp. completed its Empire Abo gas-treatment plant 13 miles southeast of Artesia. The plant was designed to process 20 million cubic feet of gas a day. Petroleum production in New Mexico again exceeded 100 million barrels, and increased 2 percent over 1959. Beryllium exploration and development was conducted at the Harding mine, Taos County, but no shipments were made. Major developments at the Chino mine of Kennecott Copper Corp. included the starting of construction on a \$2 million skip hoist to lift ore and waste material from the open pit, an enlargement and improvement of the precipitation system to remove copper from waste material, continuation of the stripping operation to extend the mining area of the open pit and the completion of the new 16,000-kw power plant. Shipments of manganese ore from New Mexico were reduced to zero in 1960 following fulfilling of the quota under the Government manganese purchase program. The quota was filled August 5, 1959. The entire production of molybdenum from New Mexico came from molybdenum concentrate produced by the Chino mine at Hurley, Grant County, as a by-product of copper ores. Molybdenum Corp. of America continued for the fifth year an exploration and development program at Questa. Operations began at a vanadium-recovery unit at the Navajo uranium plant of Kerr-McGee Oil Industries Inc. at Shiprock. Construction of the plant was completed late in 1959. Some uranium ores in the Carrizo Mountains of San Juan County contained significant amounts of vanadium and were shipped to Durango, Colorado for processing. Zinc production increased twofold over that of 1959. The Tijeras plant of the Ideal Cement Co. completed its first full year of operation, with its principal market in New Mexico. A 1.25 million-barrel addition to the cement plant was completed and placed in operation in December 1960. The first gypsum building products manufactured at the Kaiser Gypsum Co.'s Rosario plant were shipped. American Gypsum Co. began trial runs at its Albuquerque wallboard plant and operations began in December. Clute Corp. constructed a mica grinding plant at Tesuque. Scrap mica production increased significantly. New Mexico was the leading producer of perlite in the U. S., supplying 77 percent of the total output, with production from Taos, Socorro, and Grant counties. Fire destroyed the No Agua mill of Johns-Manville Perlite Corp. and a new plant with a rated annual capacity of 150,000 tons of processed material was completed and placed in operation late in December. Great Lakes Carbon Corp. formulated plans to shut down its Socorro perlite

mine, mill, and expanding plant and to center its operations at No Agua. Five major potash producers in the Carlsbad area and one at Searles Lake, Calif. established a foundation for international potash research, to develop programs for efficient and beneficial use of potash. Southwest Potash Corp. announced a \$3 million expansion program for its Carlsbad operation and planned to construct a \$7 million nitrate of potash and chlorine plant at Vicksburg, Miss. Muriate of potash produced at Carlsbad was to be shipped to the Mississippi plant. Continued growth of the salt industry was shown by an 8-percent increase in output—reaching 39,000 tons valued at \$331 thousand. The Quemado solar-evaporation facility of Curtis Salt Co. was purchased by the Rocky Mountain Salt Co. Reduction in mileage under construction on the Federal interstate highway system caused substantial decline in the output of sand and gravel. El Paso Natural Gas Co. closed its sulfur recovery plant at Eunice, November 30. Pan American Petroleum Corp. placed a 12-ton-per-day sulfur-recovery unit in operation at its Empire Abo gasoline plant, 13 miles southeast of Artesia.

1961.—Five principal mineral commodities produced in order of value were petroleum, potassium salts, natural gas, uranium ore, and copper. Uranium contracts were extended to December 31, 1966 by the AEC. Severance taxes were raised on uranium from one-half to one percent of total value of ore. Potash industry was required to pay tax on 80 percent instead of on 75 percent of product value. Increased use of New Mexico coking coal in California steel industries contributed to the expansion of coal output, with major gains in Colfax County. Ground-breaking ceremonies were held for the Four Corners power plant, southwest of Farmington. Output of the newly constructed Clute Corporation grinding mill at Pojoaque accounted for most of the expanded output of scrap mica in this year. Sheet mica was not produced in 1961. New Mexico continued as leading producer of perlite in the Nation with major production from Taos County. Equipment was transferred from Socorro perlite operation to No Agua. New Mexico continued as the Nation's leading uranium ore producer. Vanadium recovery unit at Shiprock operated throughout the year. Molybdenum concentrate was produced as a by-product of the treatment of copper concentrates at Hurley.

1962.—The State was the Nation's leading producer of perlite, potassium salts, and uranium ore. The five principal mineral commodities produced in order of value were petroleum, natural gas, potassium salts, uranium ore, and copper. Fourteen mines produced coal in five counties—4 in Colfax, 5 in McKinley, 3 in Rio Arriba, and 1 each in Sandoval and San Juan. Chino and Bayard (Continental) in Grant County and Bonney-Miser's Chest in Hidalgo County produced the larger part of the copper production from the

State. Gold was being recovered from ore and dump rock in mines in Grant and Hidalgo counties which produced more than 99 percent of the State's total output. Kennecott Copper Corp.'s Chino mine, and Banner Mining Company's Bonney-Miser's Chest mine were leading producers of gold. Exploration and development program was under way at Questa for molybdenum. Kennecott Copper Corp. produced the entire output of molybdenum for 1961 at Hurley in Grant County as a by-product of copper production. Silver was being produced from Grant and Hidalgo counties. New Mexico led the nation in producing uranium ores with 69 operations in 5 counties. McKinley, San Juan, Valencia, Socorro, and Santa Fe. Zinc mining operations at the Hanover and Oswaldo mines and milling operations at Hanover mill of the New Jersey Zinc Company were closed December 1. The millionth carload of potassium salts was shipped by rail from Carlsbad April 18 (the first commercial shipment was made in 1931). Mineral production was reported from all 32 counties except Los Alamos. Handcobbed beryl was produced at the Harding mine near Dixon. Perlite was produced from Taos and Valencia counties.

1963.—*Mineral* output in New Mexico reached a near all-time high of \$686.8 million representing a two-percent increase over the \$675.8 million reported in 1962. Important gains were made in coal and helium production. The State was the Nation's leading producer of perlite, potassium salts, and uranium ore. New Mexico accounted for 80 percent of the total production of perlite in the Nation and 92 percent of the Nation's total output of potassium salts. The State continued as the Nation's leading producer of uranium ore, a position held for the fifth consecutive year. The Navajo strip mine, 23 miles southwest of Farmington, made a significant contribution to the expanded coal output in the year, supplying coal to generate 350,000 kilowatts of thermoelectric power at the Arizona Public Service Company, Four Corners power plant. Coal was exploited from three strip and seven underground mines. Colfax, McKinley, San Juan, Rio Arriba, and Sandoval were coal producers. Petroleum production again exceeded 100 million barrels and the output was greater than for any other year. The State continued to retain its position as sixth in the Nation's output of oil. New Mexico's producing wells totaled 16,794 with 14,916 in the southeastern counties and 1,878 in the northwestern counties. Principal output values of nonmetals in declining rank were potassium salts, sand and gravel, cement, stone, and perlite. For the last seven years New Mexico had been a source of over 50 percent of the Nation's total tonnage of perlite. The salt industry evidenced growth with markets including mostly stock ranchers, feed dealers, water softener establishments, and State and county highway departments. The State was third in the Nation in the production of copper. Molybdenum was produced in

small quantities for the first time since 1961 at the Questa mine of the Molybdenum Corporation of America, the State's only molybdenum mine. Molybdenum concentrate was produced also by Kennecott Copper Corp. at Hurley as a by-product of copper ore concentrate and this by-product recovery accounted for most of the molybdenum produced in the State. Silver was being produced in Grant County and Hidalgo County with 29 percent of the silver obtained from silver and gold-silver ores, an equal amount from lead-zinc and zinc ores, and 42 percent from copper ores. The higher price for silver caused interest in past silver-producing areas in several counties of the State. Five mines produced gold: the Bayard (Continental) and Chino in Grant County, and Bonney-Miser's Chest, Eighty-Five, and Henry Clay in Hidalgo County. These five mines produced 98 percent of the State's gold. More than 82 percent of the gold output was recovered as a by-product of copper ore from the Bayard (Continental), Bonney-Miser's Chest, and Chino mines. The balance came primarily from the gold-silver ore produced at the Eighty-Five and the Henry Clay mines. Twelve gold operators worked eleven mines in six counties and also contributed to the total gold produced. Lead was recovered from eleven operations in the State, as the price of lead rose from 10 cents to 12.5 cents per pound.

1964.—The State continued to lead the Nation in the output of perlite, potassium salts, and uranium ore. Of importance were potash refinery expansions and sinking operations completed at two new shaft mines; mine and plant expansions at an open-pit copper mine, development of a large copper property, completion of a thermoelectric power plant, and an increased coal utilization; reactivation of a lead mine; continued production from zinc mines; added plant expansion at a gypsum operation, preparations for an open-pit mining and milling installation at a molybdenum deposit; reopening of silver, copper, and zinc-lead mines. Coal was produced from 11 mines: 3 underground mines in Colfax County, 2 strip mines, and 1 underground mine in McKinley County, 1 of each type of operation in San Juan, 2 underground mines in Rio Arriba, and 1 underground mine in Sandoval. Expansions continued at the York Canyon coal mine of Kaiser Steel Corp. in Colfax County. Nonmetals accounted for 18 percent of the total output value for the State. In declining order of value the principal commodities produced were potassium salts, sand and gravel, cement, stone, and perlite. All production of barite from the State was mined, crushed, and bagged in Socorro County for shipment to markets in the State and used mostly as a constituent for heavy drilling muds in oil-well exploration and development. Miscellaneous clay production increased substantially. Fire clay was mined and sold in Hidalgo and Luna counties, miscellaneous clay from Bernalillo, Dona Ana, Grant, and Luna counties. Clay production was

started at a new mine in Grant County. This was the first year since 1959 that fluorspar was mined. The total output of 137 tons was from a mine in Dona Ana County and was used in steelmaking. New Mexico accounted for 82 percent of the U.S. perlite production with four-fifths of the production coming from 3 open-pit mines in the No Agua area, Taos County, and the remainder from an open-pit mine near Grants, Valencia County. For the second consecutive year New Mexico supplied the Nation with 92 percent of the total output of potassium salts. The State ranked fourth in the Nation in copper output produced at 29 mines represented by 42 operations, including 17 leaching operations, a gain of 6 operations over 1963. Ninety-nine percent of the output came from the Chino and Bayard (Continental) mines in Grant County and Bonney-Miser's Chest in Hidalgo County. Eleven counties reported copper production. Gold was recovered from 18 lode mines and 1 placer mine in seven counties. Eighty-six percent of the gold recovered was recovered as a by-product of copper ore mined at the Bayard (Continental), Bonney-Miser's Chest, and Chino mines. Magnetite ore from open-pit mines in Grant and Socorro counties increased. Lead production was from 16 mines in 6 counties. Reopening of lead-zinc mines (closed during most of 1963) and reopening of mines that had suspended operations for several years, and improvement in the lead market price from \$0.1265 to \$0.16 were factors contributing to the increase of lead production. Socorro County was the only producer of manganese in the State. Molybdenum concentrate was recovered principally as a byproduct in the treatment of copper and some uranium ores, with Chino mine in Grant County accounting for most of the molybdenum recovered in the State. Silver was produced at 32 mines. Important producing silver mines in descending order of production were the Kearney, Grant County; Bonney-Miser's Chest, Hidalgo County; Chino, Grant County; and Linchburg, Socorro County. These produced 73 percent of the silver in the State. Price of silver was stabilized at \$1.293 per ounce. New Mexico led the Nation in total output of uranium ore and concentrate for the sixth consecutive year. Uranium ore was from 55 operations, 13 less than in 1963. Major production continued to be from McKinley County (41 operations), followed by Valencia (6 operations), and San Juan County (6 operations). Other producing counties were Grant and Santa Fe. Five uranium processing mills operated throughout the year. Zinc ranked third in value of metals produced in the State with output from 20 mines in 7 counties. The 5 leading zinc-producing mines in rank of output were the Kearney, Hanover, Oswaldo, Princess, and Linchburg; these produced 99 percent of the total output of the State. Except for the Linchburg mine, in Socorro County, all were in Grant County. Increases in zinc output and value were caused principally by the continual operations at Han-

over and Oswaldo mines and reactivations of the Princess and Linchburg mines. A price increase for zinc from \$0.130 per pound to \$0.145 per pound during the year contributed to the increase.

1965.—Coal production gained 11 percent over 1964. Potassium salts, sand and gravel, perlite, and stone were largely responsible for a 12-percent increase in the nonmetals produced. Potassium salts and sand and gravel accounted for 89 percent of the gain. No production was reported for barite or fluorspar. New Mexico was again ranked first in the Nation in the output of potassium salts surpassing the all-time high set in 1964. A new multi-million dollar mine and crystallization refinery went on the stream in November in the Carlsbad area. Production was begun at the recently completed Nash Draw Shaft mine. Langbeinite ore was shipped to the new sulfate plant near the Saunders refinery. The capacity output of potash ore was reached at the newly completed Eddy mine in Lea County. The State continued to be the leading producer of perlite in the Nation, a rank held for the previous 8 years. Gypsum production decreased significantly because of the lower demand for manufactured gypsum products used by the building industry. A 15-percent increase in copper output and a 22-percent rise in zinc production underpinned significant gain in the value of metals. For the third year copper values exceeded that of uranium ore. The State again ranked first in the Nation in uranium ore production and fourth in copper output. Chino mine of Kennecott Copper Corp. continued to be the major source of copper in the State. Gold production and output value increased 50 percent. The gold was recovered mostly from copper ores mined at Chino, Bonney-Miser's Chest, and Eighty-Five mines. Silver output and dollar value each recorded a 17-percent gain; the by-product silver was recovered from the treatment of copper, lead-zinc, and zinc ores. Uranium ore principally mined in McKinley and Valencia counties, decreased 4 percent in output and 1 percent in value of production, continuing a decline for the third consecutive year—the result of cutbacks in the Atomic Energy Commission procurement program. Zinc ranked as the third metal in the State in output value and lead ranked fifth. Zinc producers were the Hanover mine of the New Jersey Zinc Company; Linchburg mine of the New Jersey Zinc Company; Kearney mine of American Zinc, Lead, and Smelting Company; Oswaldo mine of Kennecott Copper Corporation, and the Princess mine of USSR & M Company. Leading lead producers were the Ground Hog mine of American Smelting and Refining Company, and the Hanover, Kearney, and Linchburg mines. A. B. Baca of Socorro reopened the Kelly mine of the New Jersey Zinc Company and produced zinc-lead ores for shipment to the Hanover mill. By-product

molybdenum was recovered from copper ore at the Chino mill at Hurley, from uranium ores of the Ambrosia Lake mines, and from uranium-bearing lignite ash from South Dakota. Multimillion dollar development projects at the Questa mine by Molybdenum Corporation of America neared completion. Manganiferous iron and manganese ores were produced at Boston Hill mine, Grant County, and the Black Canyon mine in Socorro County. Tin was produced from placer deposits in Sierra County and erection started on a 50-ton-per-hour jig concentrator. The concentra-

for started March 1 and operated until early August when it was closed to undergo remodeling.

1966.—The \$44 million mine-mill complex of the Molybdenum Corporation of America at Questa, Red River district, was dedicated in April. It was announced by the Bureau of Indian Affairs that the Navajo mine of Utah Construction and Mining Company in San Juan County, at Four Corners may soon be the largest in the Nation with a production of 10 million tons of coal annually.

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Bull. 87: Mineral and Water Resources of New Mexico; compiled in cooperation with U.S. Geological Survey, State Engineer of New Mexico, New Mexico Oil Conservation Commission, and U.S. Bureau of Mines. Contains several lists of selected references covering mineral fuels (p. 126-130), metallic resources (p. 247-255), and nonmetallic resources (p. 376-386). 1965, \$1.00

A list of publications for sale by the State Bureau may be obtained from the State Bureau of Mines and Mineral Resources, Campus Station, Socorro, New Mexico 87801.

Available Maps of Mining Districts

The following maps may be obtained from the State Bureau of Mines and Mineral Resources, Campus Station, Socorro, New Mexico 87801.

New Mexico Energy Resources Map (1958) :
names of coal fields given; uranium deposits located but names not given \$1.00

New Mexico Metal Resources Map (1958) ;
names of districts not given \$1.00

New Mexico Non-Metal Resources Map (1958) ;
names of districts not given \$1.00

A 1955 map showing names and locations of metals districts accompanies Bulletin 39 "The Metal Resources of New Mexico"; price of bulletin including map \$2.50

Directory of Mines of New Mexico Circular 77;
price of circular including map \$2.00

A 1937 map showing numerous occurrences of non-metals accompanies Bulletin 12 "The Non-Metallic Mineral Resources of New Mexico"; price of bulletin including map \$1.50

The following may be obtained from the University of New Mexico Press, Albuquerque, New Mexico 87106.

Mining districts of New Mexico (1959) \$1.00

Minerals of New Mexico, revised edition, 681 p ..
including the map \$10.00

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Type faces: Text in 10-pt. linotype Baskerville
Reference and Index in 8-pt. linotype Baskerville
Display heads in 18-pt. Baskerville italic,
letterspaced

Presswork: Miehle Single Color Offset
Harris Single Color Offset

Binding: Saddlestitched

Paper: Cover on 65-1b. Beckett gray
Text on 60-1b. White Offset

Ink: Cover—Black
Text—Black

Press Run: 500

