

Table 1

District (Alaises)	Precious metal production in troy ounces reported/(estimated)		Other commodities produced/(present)	Type of deposit	Description	References
	Gold	Silver				
BERNALILLO COUNTY						
1. Coyote Canyon	24	69	Pb, F, (Ba, Cu)	7, 8	Veins filling faults and fissures in Pre-cambrian schist, phyllite, and granite gneiss ("Sevilleta metarhyolitie"). Ba-F-Pb veins in Pennsylvanian Sandia and Madera Formations.	Elston, 1967; Ross, 1909; Myers and McKay, 1970; Fulp and others, 1982, U.S. Bureau of Mines Mineral Yearbooks
2. Tijeras Canyon	42.4	1,093	Cu, Pb, F, (U, Ba)	6, 8	Veins and small stratiform ore bodies in Pre-cambrian Tijeras greenstone. Stratabound sedimentary copper deposits in Permian Abo Formation.	Kelley & Northrop, 1975; Fulp and Woodward, 1981; McLemore, 1982b, 1983a; U.S. Bureau of Mines Mineral Yearbooks
CATRON COUNTY						
3. Mogollon	5,680,624 (6,000,000)	17,377,284 (20,000,000+)	Cu, Pb, U	2	Veins filling faults cutting Oligocene andesites, rhyolite and quartz latite tuffs, rhyolites, breccia, and minor volcanoclastic rhyolites, in the ring fracture zone of the Bursum caldera.	Ferguson, 1927; Ratte, 1981; Collins, 1957
4. Wilcox	-	17	Au, Cu, F, Te	2	Veins filling faults and fissures cutting Oligocene andesites, tuffs, rhyolites, and volcanoclastic sediments in the ring fracture zone of the Bursum caldera.	Ratte and others, 1979; Ratte and Gaskill, 1975; Gillerman, 1964; U.S. Bureau of Mines Mineral Yearbooks
CIBOLA COUNTY						
5. Zuni Mountains	-	249	Cu, F, Pb (U, V, Ba)	6, 8	Stratabound sedimentary copper deposits in Permian Abo Formation. Veins filling faults and fissures in Precambrian aplite, granite gneiss, and porphyritic aplite. Disseminated mineralization in shear zone in Precambrian porphyritic aplite.	Soule, 1956; Goddard, 1966; Fulp & Woodward, 1981; Lindgren and others, 1910; U.S. Bureau of Mines Mineral Yearbooks
COLFAX COUNTY						
6. Cimmaroncito	(100)	(1,000)	Cu	4	Skarn deposits in Pennsylvanian limestones adjacent to Oligocene quartz-monzonite porphyry dikes.	Pettit, 1946; Lindgren and others, 1910
7. Elizabethtown-Baldy	(471,400)	-	Ag, Cu, Pb (W)	1, 2, 4	Veins filling fissures in Oligocene quartz-diorite sills and also in Cretaceous Pierre Shale. Minor skarn deposits in calcareous shale beds in the Pierre Shale. Placers in dry washes and Moreno Creek derived from the lode deposits.	Clark and Read, 1972; Pettit, 1946; Lee, 1916; Lindgren and others, 1910 Dale and McKinney, 1959
DONA ANA COUNTY						
8. Black Mountain	(600)	-	Ag, Cu (Ba)	3, 8	Veins in Precambrian rocks commonly at the contact of diorite dikes and granite. Irregular vein deposits along a normal fault between Precambrian granite and Ordovician El Paso Limestone with minor replacement in the El Paso Limestone.	Seager, 1981; Dunham, 1935
9. Dona Ana Mountains	(100)	(5,000)	Cu	2	Veins at the contact of silicified rhyolite and altered Oligocene Cleofas Andesite.	Seager and others, 1976; Dunham, 1935
10. Northern Franklin Mountains	-	-	Pb, Jarosite (F, Ba, Ag)	7	Veins filling fissures in Silurian Fusselman Dolomite and along its unconformable contact with overlying Devonian Canutillo Formation. Minor replacement.	Dunham, 1935; Kelley and Matheny, 1983
11. Organ Mountains	(5,700)	(750,000)	Zn, Pb, Cu, F, (W)	3, 4	Replacement deposits in Ordovician Montoya Group, Silurian Fusselman Dolomite, Pennsylvanian Lead Camp Limestone, and Permian Hueco Formation localized by faults, Tertiary quartz-monzonite dikes, and, in the Fusselman, near the contact with overlying Devonian Percha Shale. Less important vein deposits in faults and fissures in Paleozoic sediments and the Oligocene Organ batholith complex (dominately quartz-monzonite), and silverbearing pegmatites in the Organ batholith.	Seager, 1981; Dunham, 1935; Albritton and Nelson, 1943; Dale and McKinney, 1959

District (Alaises)	Precious metal production in troy ounces reported/(estimated)		Other commodities produced/(present)	Type of deposit	Description	References
	Gold	Silver				
12. Potrillo Mountains	-	-	Pb, Cu, Ag (Ba)	3, 4	Small replacement bodies and veins in Permian Hueco Formation localized by faults.	Dunham, 1935; Jenkins, 1977
13. San Andrecito	-	-	(Ag, Cu, Pb)	3, 7	Veins filling fissures in Cambrian Bliss Sandstone and Ordovician El Paso Limestone.	Dunham, 1935
14. San Andres Canyon	-	-	Pb (Ba, Ag)	4	Irregular replacement deposit in Silurian Fusselman Dolomite adjacent to a high angle normal fault.	Dunham, 1935; Bachman and Myers, 1969
EDDY COUNTY						
15. Lone Eagle	-	21	Cu (U)	6	Stratabound sedimentary copper deposit in sandstone of the Permian Yates Formation.	Soule, 1956; Motts, 1962
16. Two Ladies Prospect	-	-	Pb (Zn, Ag)	7	Replacement of carbonate and open-space filling in collapse breccia in dolomite of the Permian Yates Formation.	North, in preparation
GRANT COUNTY						
17. Alum Mountain (Gila River)	1	21	Alum	2	Highly altered Oligocene andesite with shows of precious metals.	Ratte and others, 1979; Howard, 1967; Ratte and Gaskill, 1975
18. Bayard	1,260 (2,000+)	1,847,198 (6,500,000)	Cu, Pb, Zn, V	3, 4	Veins filling faults and locally replacement deposits in favorable beds at depth.	Richter and Lawrence, 1983; Jones and others, 1967; Lasky, 1936
19. Black Hawk (Bullards Peak)	5	4,095 (1,286,000)	W (Co, Ni, U, Bi, Mo, Zn, Pb, Cu)	2	Veins filling fissures and faults in Precambrian quartz-diorite gneiss and granite near the contact with (Upper Cretaceous-Lower Tertiary) Twin Peaks Monzonite Porphyry stock. Mineralization Late Cretaceous-Early Tertiary (Laramide).	Gillerman and Whitebread, 1956; Von Barga, 1979; Richter and Lawrence, 1983; Gillerman, 1964; Hedlund, 1978f; U.S. Bureau of Mines Mineral Yearbooks; Dale and McKinney, 1959
20. Bound Ranch	-	-	W, F (Au, U)	8(?)	Veins filling faults and fissures in Precambrian granite	Gillerman, 1952; 1964; Hedlund, 1978b; Richter and Lawrence, 1983; Dale and McKinney, 1959
21. Burro Mountains	(>50,000)	(>10,000,000)	Cu, Mo, Pb, Zn, turquoise, F	3, 5	Porphyry copper deposit in Paleocene quartz-monzonite porphyry of Tyrone and veins filling fissures and shears in Precambrian granite adjacent to the Tertiary stock.	Richter and Lawrence, 1983; Gillerman, 1970; Paige, 1922; Kolessar, 1982; Hedlund, 1978a, d & f
22. Carpenter (Swartz)	98.06	93,497	Cu, Pb, Zn	3	Veins filling faults in Ordovician Montoya Formation and Silurian Fusselman Dolomite with some irregular replacement bodies. Some deposits also localized along andesite dikes.	Hill, 1946; Hedlund, 1977
23. Chloride Flat	0.4	8,018	Pb	4	Supergene-enriched replacement deposits in Silurian Fusselman Dolomite near the contact with overlying Devonian Percha Shale.	Richter and Lawrence, 1983; Cunningham, 1974; Entwistle, 1938, 1944; U.S. Bureau of Mines Mineral Yearbooks
24. Copper Flat	-	-	Zn, Pb, Cu, Ag, Au	4	Skarn and replacement deposits in Pennsylvanian Oswaldo Formation adjacent to the Lower Tertiary Copper Flat stock.	Richter and Lawrence, 1983; Jones and others, 1967; Mullen and Storms, 1948
25. Eureka (Hidalgo County)	3,175.27	296,086	Cu, Pb, As, Zn	4	Skarn and replacement deposits in limestone of the Cretaceous U-Bar Formation adjacent to a Cretaceous-Tertiary monzonite stock.	Lasky, 1947; Zeller, 1970; U.S. Bureau of Mines Mineral Yearbooks

District (Alaises)	Precious metal production troy ounces reported/(estimated)		Other commodities produced/(present)	Type of deposit	Description	References
	Gold	Silver				
26. Fierro-Hanover	(>50,000)	(>5,000,000)	Cu, Zn, Pb, Fe	4	Skarn deposits chiefly in the Tierra Blanca Member (Hanover Limestone) of the Mississippian Lake Valley Formation and the Pennsylvanian Oswaldo Formation adjacent to granodiorite porphyry of the Paleocene Hanover-Fierro pluton, commonly localized by faults.	Forrester, 1972, Abramson, 1981; Jones and others, 1967
27. Fleming	54.77	10,360 (300,000)	Cu, Pb	3	Irregular oxidized bodies in Cretaceous Beartooth Quartzite. Veins filling fissures in Precambrian granite.	Richter and Lawrence, 1983; Cunningham, 1974; U.S. Bureau of Mines Mineral Yearbooks
28. Georgetown	-	(3,850,000)		4	Irregular oxidized bodies in Silurian Fusselman Dolomite localized by contact with overlying Devonian Peacha Shale and Paleocene granodiorite-porphyry dikes.	Richter and Lawrence, 1983; Jones and others, 1967
29. Gold Hill	308.43 (>1,000)	2,772	Pb, Cu	8	Veins in Precambrian granite and at the contact of Precambrian hornblende gneiss with granite.	Richter and Lawrence, 1983; Hedlund, 1978c; U.S. Bureau of Mines Mineral Yearbooks
30. Lone Mountain	18	28,578 (>100,000)	Pb	3	Veins filling fissures in Silurian Fusselman Dolomite.	Richter and Lawrence, 1983; Pratt, 1967; Howard, 1967
31. Malone	(12,000)	-	Ag, Cu, Pb, Zn (U)	8	Veins filling faults in Precambrian granite and at the contact of granite with Precambrian basic dikes.	Richter and Lawrence, 1983
32. Northern Cooke's Range	-	-	F, Pb, Ag (Zn)	3	Veins in small faults and breccia zones in the upper part of the Silurian Fusselman Dolomite near the contact with overlying Devonian Peacha Shale. Mineralization is restricted to a small fault block.	Elston, 1957; McAnulty, 1978
33. Pinos Altos	(150,000)	454,753 (800,000)	Zn, Pb, Cu (W)	1, 3, 4	Veins filling fissures in quartz-monzonite Pinos Altos stock (Late Cretaceous) and Late Cretaceous diorite porphyries and andesite breccias. Replacement deposits in Pennsylvanian Magdalena Group limestones west and northwest of the Pinos Altos stock. Placers derived from lodes.	Richter and Lawrence, 1983 Koschmann and Bergendahl, 1968; Jones and others, 1970; Paige, 1911; Dale and McKinney, 1959
34. Santa Rita	(180,000)	(>2,500,000)	Cu, Mo (Zn)	5	Porphyry copper deposit in Paleocene Santa Rita quartz-monzonite stock.	Jones and others, 1967; Koschmann and Bergendahl, 1968; Rose and Ballrosser, 1966
35. Steeple Rock	37,675 (135,000)	1,533,041 (4,500,000)	Cu, Pb, Zn, (F)	2	Veins and irregular replacement deposits filling faults in Oligocene volcanic rocks.	Biggerstaff, 1974; Griggs and Wagner, 1966; Richter and Lawrence, 1983; McAnulty, 1978
36. Telegraph (Red Rock)	1	1,296	Cu, Pb, Zn (F, Mn, U, Th)	3	Veins filling faults and fissures in Precambrian granite and Cretaceous Beartooth Quartzite.	Richter and Lawrence, 1983 McAnulty, 1978; U.S. Bureau of Mines Mineral Yearbooks; Hewitt, 1959
37. White Signal	307.48 (1,000)	1,019 (2,500)	Cu, U, Bi, Pb, (Th, Zn)	3	Veins filling faults and fissures in Precambrian granite and along the contact between granite and early Tertiary rhyolite dikes.	Richter and Lawrence, 1983; Gillerman, 1953, 1964; Hedlund, 1978e; Howard, 1967
GUADALUPE COUNTY						
38. Pastura	2.0	42,494	Cu, Pb (U)	6	Stratabound sedimentary copper deposits in sandstones of Triassic Santa Rosa Formation.	Soule, 1956, McLemore, 1983a; Howard, 1967

District (Aliases)	Precious metal production troy ounces reported/(estimated)		Other commodities produced/(present)	Type of deposit	Description	References
	Gold	Silver				
HARDING COUNTY						
39. Bueyeros Prospects	-	-	(Au)	2 (?)	Gold values reported in quartz stringers in basalt north and west of Bueyeros.	Harley, 1940
40. Gallegos	-	-	(Cu, Ag, Au)	1, 6	Placers reported in gravels of Ute Creek. Stratabound sedimentary copper reported in Triassic rocks west of Gallagos.	Harley, 1940; Everett, 1953
HIDALGO COUNTY						
41. Apache #2	41	8,082 (125,000)	Cu, Pb, Bi	3, 4	Skarn deposits in limestones of the Cretaceous U-Bar Formation and Mojado Formation adjacent to Oligocene monzonite porphyry. Minor vein deposits filling faults and fissures in Tertiary volcanic rocks.	Peterson, 1976; Howard, 1967; U.S. Bureau of Mines Mineral Yearbooks; Deal and others, 1978
42. Big Hatchet Mountains	-	-	Pb, Zn, Ag	4	Small replacement bodies in the Pennsylvanian-Permian Horquilla Limestone.	Elston, 1965; Zeller, 1975
43. Fremont	(10)	(10,000)	Pb, Zn, Cu, U	3	Veins filling faults in limestone unit and red bed unit of Cretaceous Howell's Ridge Formation, minor replacement of limestone.	Griswold, 1961; Strongin, 1957
44. Gillespie	-	(16,000)	Pb, Cu (F)	2	Veins filling fissures in Oligocene Oak Creek Tuff and Pennsylvanian-Permian Horquilla Limestone.	Elston, 1965; Zeller and Alper, 1965; Deal and others, 1978
45. Granite Gap	-	(500,000)	Au, Pb, Cu, Zn (W)	3, 4	Veins and replacement deposits in Ordovician El Paso Group, Mississippian Escabrosa Limestone, and Pennsylvanian Horquilla Limestone adjacent to Oligocene quartz monzonite.	Richter and Lawrence, 1983; Drewes and Thorman, 1980b; Gillerman, 1958; Dale and McKinney, 1959
46. Kimball	(1,500)	(400,000)	Pb, Cu, Zn	2	Veins filling faults and fissures in Oligocene volcanic rocks, mainly rhyolite tuff and andesite.	Enders, 1981; Young, 1982; Richter and Lawrence, 1983
47. Lordsburg	223,709	6,190,816	Cu, Pb, Zn (F)	3	Veins filling fissures and faults in the contact zone between Late Cretaceous andesite flows and granodiorite-porphyry intrusive. Veins are found in both the volcanics and the intrusive.	Lasky, 1938; Richter and Lawrence, 1983; Thorman and Drewes, 1978
48. McGhee Peak	-	(200,000)	Pb, Cu, Au	4	Replacement deposits in Cretaceous Carbonate Hill Limestone and to a lesser extent, Pennsylvanian Horquilla Limestone adjacent to dikes and sills of Oligocene felsic rocks. Minor veins in Cretaceous/Tertiary volcanic rocks.	Richter and Lawrence, 1983; Drewes and Thorman, 1980a
49. Rincon	-	(>10,000)	Cu, Pb, Au	4	Replacement deposits in Pennsylvanian-Permian Horquilla Limestone localized by minor faults.	Drewes and Thorman, 1980a; Soule, 1972; Elston, 1965
50. Sylvanite	1,971 (2,500)	27,454 (35,000)	Cu, Pb, W	3, 4	Skarn deposits in Cretaceous Hell-To-Finish Formation adjacent to Cretaceous-Tertiary monzonite and quartz monzonite. Veins filling faults in monzonite and along the contacts of Cretaceous-Tertiary dikes and their host rocks (mainly monzonite-quartz monzonite).	Lasky, 1947; Zeller, 1970; Howard, 1967

District (Aliases)	Precious metal production troy ounces reported/(estimated)		Other commodities produced/(present)	Type of deposit	Description	References
	Gold	Silver				
LINCOLN COUNTY						
51. Estey	-	124	Cu (U)	6	Stratabound sedimentary copper deposits in arkoses and limestones of the Permian Abo Formation.	Soule, 1956; Lasky and Wooton, 1933
52. Capitan Mountains Prospects	-	-	U (Th, Cu, Ag, Fe)	4	Iron vein deposits in Tertiary intrusives and iron skarn deposits in Permian sedimentary rocks adjacent to Tertiary intrusive. Selected samples assay as high as 0.62 ounces/ton (21 ppm) silver.	McLemore, 1983a, Kelley, 1949
53. Gallinas	5.58	22,405	F, Cu, Fe, Zn, Pb Pb, REE (U, Th,)	3	Veins filling fissures and breccia zones in Permian Yeso Formation and Tertiary trachyte porphyry.	Perhac, 1970; Griswold, 1959; Anderson, 1957
54. Jicarilla	1858.53 (8500)	136	Fe, Cu (Pb, Zn)	1,3,4	Vein and disseminated deposits in Oligocene monzonite porphyry. Skarn deposits in limestone beds of the Permian San Andres Formation adjacent to Oligocene intrusives. Placer-gold deposits derived largely from the vein deposits.	Griswold, 1959; Segerstrom and Ryberg, 1974; U.S. Bureau of Mines Minerals Yearbooks; Chapin and others, 1975
55. Nogal	7,725.25 (15,000)	18,193	Cu, Pb, Zn (Mo)	1, 2	Mineralization filling faults, fissures, and breccia pipes in Oligocene Sierra Blanca volcanics (andesite-flow breccias), Rialto stock (alkali syenite), Bonito Lake stock (biotite syenite), and Cretaceous Mesaverde Group shales and sandstones adjacent to the Vera Cruz laccolith (alaskite). Placers derived from lodes.	Thompson, 1973; Segerstrom and others, 1979; Griswold, 1959; Howard, 1967
56. Schelerville	-	-	Cu, Pb, Ag, Au	2	Veins localized along contacts between Tertiary volcanic rocks and Tertiary diorite and syenite dikes.	Griswold, 1959; Weber 1964; Seagerstrom and others, 1979
57. White Oaks	817.38 (163,000)	888	Cu, Pb, W, Fe	2	Mineralization filling faults, fissures, and breccias in Oligocene monzonite, monzonite porphyry, lamprophyre dikes, and volcanic rocks and Cretaceous Mesa Verde Group shale and sandstone.	Griswold, 1959; Lindgren and others, 1910; Granger, 1974; U.S. Bureau of Mines Minerals Yearbooks; Chapin and others, 1975
LUNA COUNTY						
58. Carrizalillo	-	-	Pb, Cu, Ag, Au (U, Mn)	2	Veins filling faults and fissures in Tertiary rhyolite welded tuff, andesite, and lower Cretaceous sediments. Some veins localized by rhyolite dikes cutting andesite.	Griswold, 1961; Bromfield and Wrucke, 1961
59. Cooke's Peak	(30)	65,287	Pb, Zn, Cu (F)	4	Replacement deposits in Silurian Fusselman Dolomite localized near the contact of overlying Devonian Percha Shale adjacent to the Eocene-Oligocene Cooke's Peak granodiorite stock.	Jicha, 1954; Loring and Loring, 1980
60. Florida Mountains	3.33	8,034	Pb, Cu, Ba, F	3, 7	Veins filling faults and fissures in Eocene Starvation Draw Member (Rubio Peak Formation), Silurian Fusselman Dolomite, and Precambrian hornfels and quartz syenite.	Griswold, 1961; Clemons, 1982; 1984; Clemons and Brown 1983; U.S. Bureau of Mines Minerals Yearbooks
61. Old Hadley	150 (?)	533	Pb, Zn, Cu (Ba)	2	Veins filling fissures paralleling faults in Eocene-Oligocene Macho pyroxene andesite.	Jicha, 1954; Loring and Loring, 1980
62. Tres Hermanas	4.6	1203	Zn, Pb, Cu (U, Mn, W)	4	Skarn deposits in Mississippian Escabrosa Limestone and Lower Pennsylvanian limestone adjacent to Eocene Tres Hermanas quartz-monzonite stock.	Griswold, 1961; Balk, 1962; U.S. Bureau of Mines Minerals Yearbooks; Chapin and others, 1975

District (Aliases)	Precious metal production troy ounces reported/(estimated)		Other commodities produced/(present)	Type of deposit	Description	References
	Gold	Silver				
63. Victorio	(12,000)	(580,000)	Pb, Zn, Cu, W	4	Replacement deposits localized by faults in Silurian Fusselman Dolomite.	Richter and Lawrence, 1983; Griswold, 1961; Thorman and Drewes, 1980
MORA COUNTY						
64. Coyote Creek	-	48	Cu (Pb, U)	6	Stratabound sedimentary copper deposits in arkoses and shales of the Pennsylvanian-Permian Sangre de Cristo Formation.	Soule, 1956; Tschanz and others, 1958; McLemore, 1983a; Howard, 1967; U.S. Bureau of Mines Minerals Yearbooks
65. Mora	-	-	Au	1,8	Gold in quartz lenses and veins in Precambrian metasediments. Placers derived from lodes.	Harley, 1940
OTERO COUNTY						
66. Bent	-	1,189	Cu (U)	6, 8	Stratabound sedimentary copper deposits in sandstones of the Permian Abo Formation. Veins in Precambrian rocks.	Soule, 1956; McLemore, 1983a; Lindgren and others, 1910
67. Orogrande (Jarilla)	16,500	45,477	Cu, Pb, W (Zn)	1, 4	Skarn deposits in Pennsylvanian Gobbler and La Boreita Formations adjacent to Eocene monzonite-quartz-monzonite stock. Placers derived from lode deposits.	Beane and others, 1975; North, 1982; Schmitt and Craddock, 1964; Chapin and others, 1975
68. Sacramento	4.82	756	Pb, Cu, Zn (U)	6,	Copper and lead deposits with minor associated silver in sandstones and shales of Permian Abo Formation. In general, the copper ores contain little lead, the lead ores little copper.	Jerome and others, 1965; Soule, 1956; McLemore, 1983a; Howard, 1967; U.S. Bureau of Mines Minerals Yearbooks
69. Tularosa	-	-	(Cu, Ag, U)	6	Stratabound sedimentary copper deposits in Permian Abo Formation.	Soule, 1956; McLemore, 1983a
QUAY COUNTY						
70. Logan	-	-	(Cu, U, Ag)	6	Stratabound sedimentary copper deposits in shaly sandstone of Triassic Chinle Formation.	Soule, 1956; McLemore, 1983a
RIO ARriba COUNTY						
71. Abiquiu	-	-	(Cu, U, Ag)	6	Stratabound sedimentary copper deposits in conglomerate and conglomeritic sandstone of the basal Triassic Chinle Formation.	Soule, 1956; Bingler, 1968
72. Bromide #2	(300)	(4,500)	Cu, U	8	Veins in Precambrian Moppin metavolcanic series.	Bingler, 1968; Wobus and Manley, 1982
73. Chama Placers	(100)	-		1	Placers in sand and gravel deposits of the Rio Chama.	Johnson, 1972
74. Coyote	-	-	U, (Cu, Ag)	6	Stratabound sedimentary copper deposits in sandstones of the middle Permian Cultler Formation.	Soule, 1956; Bingler, 1968; Smith and others, 1961
75. Gallina	-	-	(Cu, U, Ag)	6	Stratabound sedimentary copper deposits in shales and arkosic conglomerates of the Permian Abo Formation.	Soule, 1956; McLemore, 1983
76. Hopewell	(24,000)	(10,000)	Cu, Pb	1, 8	Veins in Precambrian Moppin metavolcanic series. Placer deposits in gravels of Placer Creek.	Bingler, 1968; Wobus and Manley, 1982; Benjovsky, 1945

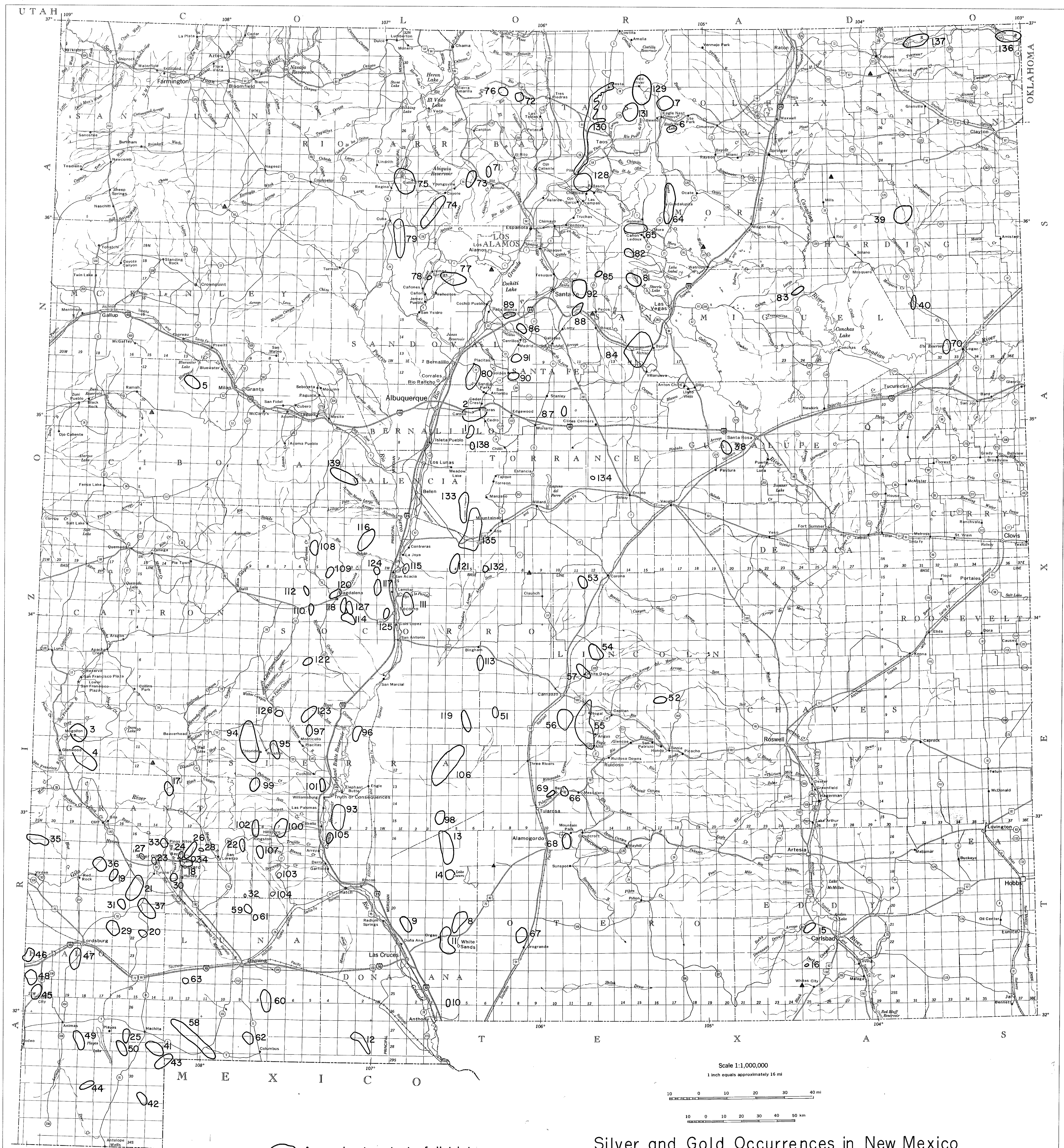
District (Aliases)	Precious metal production troy ounces reported/(estimated)		Other commodities produced/(present)	Type of deposit	Description	References
	Gold	Silver				
SANDOVAL COUNTY						
77. Cochiti	41,016 (42,000)	(203,895)	Cu, Pb, Zn (U)	2	Veins filling faults and fissures in Tertiary andesite flows and flow breccias and monzonite stock. Some replacement of wall rock.	Bundy, 1958; Elston, 1967; Lindgren and others, 1910
78. Jemez Springs	1.0	159	Cu, Pb, (U)	6	Stratabound sedimentary copper deposits in sandstone, siltstone, and limestone of the Permian Abo Formation.	Elston, 1967; McLemore, 1983a; Gott and Erickson, 1952; U.S. Bureau of Mines Minerals Yearbooks
79. Nacimiento	-	(75,068)	Cu, Pb, U	6, 8	Stratabound sedimentary copper deposits in sandstones of the Triassic Chinle Formation (Agua Zarca sandstone Member). Minor deposits in sandstones, shales, siltstones, and limestones of Permian Abo Formation and Pennsylvanian Madera Formation. Some veins in shear zones in Precambrian quartz monzonite with weak mineralization.	Soule, 1956; McLemore, 1983a; Woodward and others, 1974; Elston, 1967
80. Placitas (Bernallilo County)	49	48	Pb, Cu, (Ba, F)	1, 3, 7, 8	Base-metal and barite-fluorite veins in faults and fissures in Precambrian Sandia Granite and Pennsylvanian Madera and Sandia Formations. Placer-gold deposits.	Kelley and Northrup, 1975; Wells and Wooton, 1940; Elston, 1967
SAN MIGUEL COUNTY						
81. El Porvenir	-	-	(Cu, Ag, Au, Th, U, Mo, F)	6, 8	Veins filling fissures in Precambrian pegmatitic granite. Stratabound sedimentary copper deposits in Pennsylvanian-Permian Sangre de Cristo Formation.	Harley, 1940; Anderson, 1957; Soule, 1956; McLemore, 1983a
82. Rociada	-	-	(Cu, Pb, Ag, Au, Zn)	6, 8	Mineralized quartz veins in Precambrian granite. Minor stratabound sedimentary copper deposits in coarse sandstone of Pennsylvanian-Permian Sangre de Cristo Formation.	Harley, 1940; Anderson, 1957; Soule, 1956
83. Sabinoso	-	-	U (Cu, Ag)	6	Stratabound sedimentary copper-uranium deposits in channel sandstones of the lower and middle members of the Triassic Chinle Formation.	McLemore and Menzie, 1983
84. Tecolote	19	128	Cu	6	Stratabound sedimentary copper deposits in arkose and sandstone, probably of the Pennsylvanian-Permian Sangre de Cristo Formation.	Soule, 1956; Harley, 1940; Anderson, 1957
85. Willow Creek (Pecos)	172,562.16 (178,300)	5,296,499 (6,200,000)	Zn, Pb, Cu	9	Volcanogenic massive sulfide deposits in metamorphosed sequence of Precambrian subaqueous volcanic rocks and volcanoclastic sedimentary rocks. Also disseminated volcanogenic sulfide deposits.	Riesmeyer, 1978; Riesmeyer and Robertson, 1979; Harley, 1940; Krieger, 1932
SANTA FE COUNTY						
86. Cerillos	930.68	27,864	Cu, Pb, Zn, turquoise (U)	3	Veins filling shear zones and faults in Oligocene hornblende monzonite, augite-biotite monzonite and Espinosa volcanics and Cretaceous Mancos Shale.	Disbrow and Stoll, 1957; Elston, 1967; Chapin and others, 1975
87. Crow Butte (El Cuervo) Prospects	-	-	(Pb, Ba, Ag)	7	Barite-galena ([±] silver) veins along fault between Permian Yeso and Triassic Chinle Formations.	McLemore, 1984; FN 12/15/83
88. Glorieta	-	-	(Cu, Ag, U)	6	Stratabound sedimentary copper deposits in sandstones and arkoses of the Pennsylvanian-Permian Sangre de Cristo Formation.	Soule, 1956; Elston, 1967; McLemore, 1983a
89. La Bajada	-	52	Cu, U (Zn)	3	Base-metal (with silver and uranium) vein filling a fault cutting Oligocene Cieneguilla Limburgite and Oligocene Espinosa volcanics. Formed under low-temperature, near surface conditions.	Lustig, 1957; Elston, 1967; McLemore, 1983a; Chenoweth, 1979

District (Aliases)	Precious metal production troy ounces reported/(estimated)		Other commodities produced/(present)	Type of deposit	Description	References
	Gold	Silver				
90. New Placers	19,560 (117,000)	304,625	Cu, Pb, Zn (W)	1, 3, 4	Skarn deposits in limestone of the Pennsylvanian Madera Formation adjacent to Tertiary latite - monzonite porphyry loccolith and rhyolite dikes. Also veins filling fissures in porphyry and Madera Formation and placers derived from the lode deposits.	Atkinson, 1961; Koschmann and Bergendahl, 1968; Elston, 1967
91. Old Placers	(200,000)	311	Ag, Cu, Pb (W)	1, 2	Mineralization filling faults and fissures in Tertiary monzonite stock and adjacent Cretaceous Mesa Verde Formation shales and sandstones. Disseminated mineralization in Ortiz mine breccia (Mesaverde Formation and latite porphyry clasts) associated with latite sills and dikes. Placers derived from lodes.	Elston, 1967; Wright, 1983; Bachman, 1975; Dale and McKinney, 1959
92. Santa Fe	-	-	(Cu, Pb, Zn, Ag, Au)	9	Disseminated volcanogenic sulfide deposits in Precambrian schist and phyllite.	Fulp, 1982
SIERRA COUNTY						
93. Caballo Mountains	83.6	4,769	Cu, Pb, V, F (U, Th)	3, 6, 7	Veins filling fissures in Pennsylvanian Bar B Formation and Cambrian Bliss Formation. Stratabound sedimentary copper deposits in Permian Abo Formation.	Kelley and Silver, 1952; Harley, 1934; McNulty, 1978
94. Chloride	1,939.10 (2,500)	544,563 (1,300,000)	Cu, Pb, Zn	3	Veins filling faults in Tertiary andesite and latite flows, andesitic lahars, volcanoclastic sediments, and Pennsylvanian Madera Limestone.	Freeman and Harrison, 1984; Maxwell and Heyl, 1976; Harley, 1934
95. Cuchillo		(27,525)	Cu, Pb, Zn	4	Skarn deposits in Pennsylvanian Madera Limestone near the contact with monzonite porphyry of the Cuchillo Mountain Loccolith. Minor skarn deposits associated with rhyolite dikes.	Harley, 1934; McMillian, 1979
96. Fra Cristobal Mountains Prospects	-	-	(Cu, Pb, Ag, F, Ba, Mn)	6, 7	Veins filling faults in Precambrian granite.	Harley, 1934; Allen, 1984
97. Goldsboro	-	-	Au, Ag	2	Veins in faults and fissures in Tertiary andesite, andesite, breccia and rhyolite tuff and flows.	Lasky, 1932
98. Grandview Canyon	-	17	Cu, Bi, Au, Ag (W)	8	Veins filling fissures in Precambrian schist.	Harley, 1934
99. Hermosa	2.2	(1,250,000)	Pb, Cu, Zn	3, 4	Veins and pods filling fault zones and fissures in Silurian Fusselman Formation and Ordovician Cutter and Aleman Formations. Irregular replacement deposits in Silurian Fusselman Formation near the contact with overlying Devonian Onante Formation.	Jahns, 1957; U.S. Bureau of Mines Minerals Yearbooks
100. Hillsboro (Las Animas)	(165,000)	20,483	Pb, Zn, Cu, V	1, 2, 4	Veins filling faults and fissures in Late Cretaceous andesitic flows of Copper Flat. Porphyry copper deposit in Late Cretaceous Copper Flat quartz-monzonite stock. Minor skarn and replacement deposits in Fusselman Dolomite. Placer deposits derived from lodes.	Hedlund, 1977; Harley, 1934; Dunn, 1982; Kuellmer, 1955
101. Hot Springs	-	(40,000)	Cu, Pb	3	Veinlets and disseminated mineralization in brecciated, iron-stained limestone of the El Paso Group, probably Serrite Formation.	Harley, 1934; Kelley and Silver, 1952

District (Aliases)	Precious metal production troy ounces reported/(estimated)		Other commodities produced/(present)	Type of deposit	Description	References
	Gold	Silver				
102. Kingston	54.06	(6,000,000)	Pb, Cu, Zn, Mn (W)	2, 4	Replacement and vein deposits in Silurian Fusselman Dolomite localized by faults and the contact with overlying Devonian Percha Shale. Minor vein deposits in other Paleozoic rocks and Precambrian rocks.	Hedlund, 1977; Dale and McKinney, 1959
103. Lake Valley	6.6	(5,750,000)	Mn (Pb)	4	Oxidized replacement deposits in Mississippian Lake Valley Limestone, the most important of which are near a fault contact with Tertiary Mimbres Peak Rhyolite.	Jicha, 1954; Harley, 1934; Creasey and Granger, 1953; U.S. Bureau of Mines Minerals Yearbooks
104. Macho	(100)	(20,000)	Pb (V)	2	Veins filling breccia zones and fissures in Tertiary Macho Andesite.	Jicha, 1954; Harley, 1934; U.S. Bureau of Mines Minerals Yearbooks
105. Pittsburg	6,114.51 (8,000)	232		1	Placer deposits in Quaternary gravels derived from small Precambrian vein deposits.	Johnson, 1972; Harley, 1934
106. Salinas Peak	1.40	520	Cu, Pb, Zn	3, 7	Veins in Paleozoic limestone and at the unconformable contact between Precambrian granite and overlying Cambrian Bliss Sandstone.	Lasky, 1932; Backman and Harbour, 1970
107. Tierra Blanca	12	(165,000)	Cu, Pb, Zn (W)	2, 4	Vein and replacement deposits in Silurian Fusselman Dolomite near the contact with overlying Devonian Percha Shale. Some veins in Tertiary rhyolite and in fractures in Cambrian Bliss Formation and Ordovician El Paso Limestone adjacent to rhyolite dikes and sills.	Hedlund, 1977; Harley, 1934; U.S. Bureau of Mines Minerals Yearbooks; Dale and McKinney, 1959
SOCORRO COUNTY						
108. Abbey Spring	-	-	Cu, Ag	3	Veins filling faults between Triassic Chinle Formation and Cretaceous Dakota Sandstone Mineralization in faults in Eocene Baca Formation reported by Mayerson (1979). Tertiary-age mineralization.	North, 1983; Chapin and others, 1979; Mayerson, 1979
109. Bear Mountains	-	-	(Cu, Ag)	2	Veins in Oligocene La Jara Peak Basaltic Andesite along the Hells Mesa fault.	North, field notes, 1/28/84
110. Cat Mountain	53	1302	Cu	2	Veins filling fissures in Oligocene Spears Formation and Permian Abo(?) Formation. Also disseminated copper-silver mineralization in Oligocene Rock House Canyon Tuff.	Wilkinson, 1976; North, 1983
111. Chupadero	-	-	Cu, Ag (U)	4, 6	Sedimentary copper deposits in Pennsylvanian Upper Moya Sandstone. Also some vein and skarn deposits in Paleozoic sediments.	Jaworski, 1973; McLemore, 1983a
112. Council Rock	-	-	Pb, Ag (Ba)	2	Veins filling faults in Oligocene Spears Formation. Richest material at fault intersections.	Chamberlin, 1974
113. Hansonburg	7.11	12,157	Pb, F, Ba, (Cu)	7	Veins and irregular bodies filling open spaces in karstified Council Springs Member of the Pennsylvanian Madera Limestone. Minor replacement.	Putnam and others, 1983; Kottowski and Steensma, 1979
114. Hop Canyon	81.70	1,137	Cu, Pb (Zn, Ba, U)	2	Veins in fissures and faults in Oligocene Hells Mesa Tuff, Sawmill Canyon Formation, and along white rhyolite dikes and, to a lesser extent, mafic dikes cutting Hells Mesa Tuff.	North, 1983

District (Aliases)	Precious metal production troy ounces reported/(estimated)		Other commodities produced/(present)	Type of deposit	Description	References
	Gold	Silver				
115. Joyita Hills	-	11 (50)	Pb, F, (Cu)	7	Veins in fissures in Precambrian gneiss and along the contact of Precambrian rocks with Oligocene volcanic rocks to the east and Pennsylvanian and Permian sedimentary rocks to the west.	Lasky, 1932
116. Ladron Mountains	-	-	U, Cu, Pb, Ag, F (Zn, Ba)	3, 8	Veins filling fissures in Precambrian Capirote granite and Precambrian meta-sediments.	Chamberlin and others, 1982; McLemore, 1983a
117. Lemitar Mountains	-	-	Cu, Pb, Ba, Ag (F, Zn, U)	3, 7	Veins with minor replacement along the unconformable contact of Precambrian rocks and overlying Paleozoic sedimentary rocks, along the contact of Precambrian mafic dikes intruding granite, associated with Ordovician carbonatite dikes, and in fissures in Paleozoic limestone.	McLemore, 1982a, 1983b
118. Magdalena	3,129	(4,000,000)	Zn, Pb, Cu (F, Ba)	3, 4	Replacement and vein deposits in Mississippian Kelly Limestone and, to a lesser extent, in Pennsylvanian Sandia and Madera Formations (associate Oligocene Nitt stock (monzonite) ite). Generally, replacement bodies are localized by north-trending faults. Also skarn deposits.	Loughlin and Koschmann, 1942; Blakstad, 1976
119. Mockingbird Gap		117	Pb, (Cu, Ba, F, Zn)	3, 7	Veins filling faults between Precambrian granite and Paleozoic sedimentary rocks.	Lasky, 1932; Bachman, 1968; Bachman and Harbour, 1970
120. North Magdalena (Silver Hill)	-	149	Pb, Ba, Cu, V, (Zn)	2	Veins filling faults and fissures in Oligocene La Jara Peak Andesite.	Lasky, 1932; Simon, 1973; North, 1983
121. Rayo	-	-	(Cu, Ag)	6	Stratabound sedimentary copper deposits in light-colored siliceous sandstones of the Permian Yeso Formation (Meseta Blanca Sandstone Member).	Soule, 1956; LaPoint, 1979
122. Rosedale	27,750	5,363	(F)	2	Veins in faults cutting Oligocene South Canyon Tuff.	North, 1983; Koschmann and Bergendahl, 1968
123. San Jose	887.8	12,917	Cu, Pb, Zn	2	Veins in faults cutting Oligocene Spears Formation and Vicks Peak Tuff.	North, 1983; Lasky, 1932
124. San Lorenzo	-	-	Cu, Ag (U)	3	Veins filling faults in middle Tertiary andesite.	North, 1983
125. Socorro Peak	-	(750,000)	Pb (Ba, F)	2	Veins filling faults in late Miocene Socorro Peak Rhyolite and underlying Popotosa Formation. Some veins also cut Pennsylvanian Sandia and Madera Formations.	Chamberlin, 1980; Lasky, 1932
126. Taylor (Ojo Caliente #2)	-	-	Cu, Pb, Ag	3	Veins filling fissures in Oligocene andesite-latite flow in an intensely altered area.	Hillard, 1969; Lasky, 1932; North, 1983; Griffiths and Alminas, 1968
127. Water Canyon	121.23	1,983	Cu, Pb, Zn	3, 4	Vein, skarn and replacement deposits in Mississippian Kelly Limestone, commonly localized by faults and veins-filling faults between Precambrian and younger rocks.	Lasky, 1932; North, 1983
TAOS COUNTY						
128. Picuris	9	1,030	Cu, W (U)	8	Mineralized quartz veins, disseminated mineralization, and oxidized-copper mineralization filling fractures in Precambrian Ortega Quartzite.	Williams, 1982; Montgomery, 1953; Lindgren and others, 1910; Schilling, 1960; U.S. Bureau of Mines Minerals Yearbooks

District (Aliases)	Precious metal production troy ounces reported/(estimated)		Other commodities produced/(present)	Type of deposit	Description	References
	Gold	Silver				
129. Red River	364.89	8,051	Cu, Pb, Zn, U	1,3,8	Veins in Precambrian granitic rocks and Tertiary biotite granite, rhyolite, latite, and quartz veins. Mineralization is of Tertiary age. Placer deposits.	Clark and Read, 1972; Schilling, 1960; Park and McKinlay, 1948
130. Rio Grande Valley	(<1,000)	-		1	Placer-gold deposits in Recent gravels of the Rio Grande and Red River.	Johnson, 1972
131. Twinning	(80)	(1,000)	Cu	8	Veins and disseminated mineralization in Precambrian mafic gneiss. Mineralization is of Precambrian age.	Clark and Read, 1972; Restrepo, 1972; Schilling, 1960; Park and McKinlay, 1948
TORRENCE COUNTY						
132. Chupadera Iron Prospects	-	-	Fe (Au)	4	Skarn or hydrothermal iron deposits. Samples assay 0.02 oz/ton (0.7 ppm) Au.	McLemore, 1984; field notes, 8/11/83
133. Manzano Mountains (Valencia County)	-	-	(Cu, Au, Ag)	8	Vein filling faults and shear zones in Precambrian argillaceous metasediments.	Maxwell and Light, 1984; Maxwell and Wobus, 1982; McLemore, 1984
134. Pedernal Hills	-	-	(Cu, Ag, Au, U)	8	Veins filling fissures in Precambrian granite and greenstones.	McLemore, 1984; J. Setter, pers. comm., 1984
135. Scholle (Socorro and Valencia County)	9.96	8,148	Cu, Ra, Pb, (U, V)	6	Stratabound sedimentary copper deposits in sandstones, limestones, siltstones, and shales of the Permian Bursum, Abo, and Yeso Formations.	Soule, 1956; McLemore, 1982b, 1984
UNION COUNTY						
136. Black Mesa	-	10	Cu, (U, V)	6(?)	Mineralization in clastic plugs and sandstones in Triassic Sheep Pen Sandstone.	Fay, 1983; Soule, 1956; Baldwin and Muehlberger, 1954; U.S. Bureau of Mines Minerals Yearbooks
137. Folsom	-	-	(Cu, U, Ag, Au)	1, 6	Stratabound sedimentary copper deposits in sandstones of Triassic Chinle Formation. Small amounts of placer gold in Recent gravels of the Cimarron River Valley.	Soule, 1956; Johnson, 1972
VALENCIA COUNTY						
138. Hell Canyon	2,349	3,349	Cu (Mo)	8	Veins filling shear zones in Precambrian greenstone.	Woodward and others, 1978; 1979; Myers and McKay, 1970; Fulp and Woodward, 1981 Woodward and others, 1979
139. Romero Ranch (Rio Puerco)	-	24	Cu (U)	6	Stratabound sedimentary copper deposits in limestones and conglomerates of Triassic Chinle Formation.	McLemore, 1983a; field notes, 1981; U.S. Bureau of Mines Minerals Yearbooks



Drafted by K.Parker

- Approximate extent of district or area.
42 Numbers refer to Table I.

Silver and Gold Occurrences in New Mexico by

Robert M. North & Virginia T. McLemore
1984