



Southern and northern Rio Grande Rift
 Remnants of rift of ancestral Rocky Mountains (Western uplift)
 Tilting of these slopes; mineralization in Lincoln Co. porphyry belt

Map C References:

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- American Association of Petroleum Geologists, The, 1983, Southwest/southwest mid-continent region; Correlation of Stratigraphic Units of North America (COSUNA) Project, sections CSD no. 430, cols. 18, 19, and 23.
- Broadhead, R.F., 1989, Petroleum potential of Tucumcari Basin, east-central New Mexico; in Grant, P.R., Jr., and Foster, R.W., Future petroleum provinces in New Mexico -- discovering new reserves: Atlas; New Mexico Bureau of Mines and Mineral Resources, p. 39-48.
- Dobrovolsky, Ernest, Summerson, C.H., and Bates, R.L., 1946, Geology of northwestern Quay County, New Mexico: U.S. Geological Survey Oil and Gas Investigations Map OM-62, 1 sheet.
- Kelley, V.C., 1972, Geology of the Fort Sumner Sheet, New Mexico: New Mexico State Bureau of Mines and Mineral Resources Bulletin 98, 51 p.
- Mourant, W.A., 1963, Water resources and geology of the Rio Hondo drainage basin, Chaves, Lincoln, and Otero Counties, New Mexico: New Mexico State Engineering Technical Report 28, unpaginated.
- New Mexico Geological Society (in cooperation with New Mexico Bureau of Mines and Mineral Resources), 1982, New Mexico Highway Geologic Map, scale 1:1,000,000, including representative columnar sections and cross sections, 1 sheet.
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DEPOSITS and PROSPECTS

OIL and GAS	INDUSTRIAL and OTHER DEPOSITS	METALS
gas	Agg = aggregate	Pl = placer gold
oil	Ba = barite	PGE = platinum-group elements
oil and gas	Br = bromine	Mn = manganese
oil show	BS = bedding or descriptive term	Mt = magnetite
gas show	Ca = calcite	Fe = iron ore
oil and gas show	Cl = clay	Cu = sediment-hosted copper
no show	D = dolomite	Mo = molybdenum
A = associated gas	F = fluorite	Fl = fluorite
Where known:	G = gypsum	PMV = poly metaliferous veins
N = nitrogen	I = iodine	St = stibnite
H = helium	L = limestone	GST = galena-sphalerite-siderite veins
CO ₂ = carbon dioxide	Pl = placers	TR = thorium
H ₂ S = hydrogen sulfide	PW = petrified wood	TR = thorium
	Q = quartz, cryptocrystalline	Ti = titanium
	S = salt	MVT = Mississippi Valley-type lead-zinc
	Where known:	UV = uranium and vanadium (mostly carbonate-hosted)
	An = anhydrite	
	H = halite	
	Ph = phosphite	
	Pt = pitch	
	Sd = sand	
	Su = sulfur	

Queried where potential exists for occurrence.

This map is preliminary and has not been edited or reviewed for conformity with U.S. Geological Survey editorial standard (or with the North American Stratigraphic Code).

MAP C--Correlation chart showing rock sequences in east-central and southeastern New Mexico (modified from American Association of Petroleum Geologists, 1983; Broadhead, 1989; Dobrovolsky and others, 1946; Kelley, 1942; Allen and Jones, 1951; Mourant, 1963; New Mexico Geological Society, 1982; Thompson, 1973).

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