

Important Upper Cretaceous ammonite found in New Mexico

Anonymous

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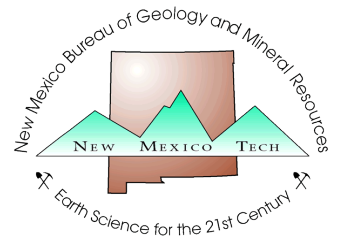
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New Mexico Bureau of Geology & Mineral Resources
New Mexico Institute of Mining & Technology
801 Leroy Place
Socorro, NM 87801-4796

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MINING REGISTRATIONS (continued)

| Date and operation | Operators and owners | Location |
|--------------------------------|--|--|
| | 678-2755; Person in charge: Kelly Shumway, same address and phone; Gen. Supt.: Tim Perkins Owners—Resources America Inc., 228 Park Ave., Suite J, Winter Park, FL 32790 | proximately 12 mi north of Magdalena on Mt. Baldy, turn right at Water Canyon campground to Northfork Canyon, mine approximately 4 mi from campground; 4-wheel drive road; underground; drift; gold, silver; federal land |
| 11-19-80 lead, zinc, copper | Operator—BR, Ree-Co Minerals Inc., 2527 Virginia NE, Suite G, Albuquerque, NM 87110; Gen. Mgr.: Oliver Reese, same address, phone: 293-1520; Gen. Supt.: Bert Bakke, same address and phone Owner—Ree-Co Minerals Inc., same address | Sierra Co.; secs. 26, 27, 34, 35, T. 16 S., R. 8 W.; Tierra Blanca mining district; from Royal John, travel east by road 7 mi to corrals with metal barn; from barn, travel by horseback 4 mi on only trail ENE to mine; sulfide works; underground; federal land |
| 11-19-80 silver, gold | Operator—Mines of Cooney mining district, Challenge Smelting and Refining Co., P.O. Box 1220, Deming, NM 88030; Gen. Mgr.: R. C. Manning, 701 W. Pine, Deming, NM; Supt.: same; Others: Tom O'Donnell, Mogollon, NM 88034 Owner—R. C. Manning, 701 W. Pine, Deming, NM | Catron Co.; T. 10 S., R. 19 W.; Cooney mining district; 1 mi west of Mogollon, NM; silver and gold; federal land |
| 11-21-80 metal | Operator—Molycorp No. 1 & 2 shafts, Gulf States Inc., P.O. Box 856, Freeport, TX; Person in charge: Pat Samford, P.O. Box 349, Questa, NM, phones: 776-8467, 586-0445; Others: Jimmy Lowery, Angel Fire, NM | Taos Co.; approximately 4 mi east of Questa by NM-38; private land |
| 11-21-80 metal | Operator—Weyler Construction Co., P.O. Box 628, Salt Lake City, UT 84110; Gen. Mgr.: Kent Wheelwright, same address, phone 801-521-7030; Person in charge: Fred Riggs, P.O. Box 679, Questa, NM, phone 505-586-0521; Gen. Supt.: Richard Miller, same address and phone Owner—Molycorp | Taos Co.; T-Questa; 3 mi west of Molycorp on NM-38; private land |
| 11-21-80 metal | Operator—Molycorp, C.D.K. Contracting, South Behrend, Farmington, NM, phone: 327-5168; Gen. Mgr.: Walter Bump, same address, phone: 632-8209; Person in charge: Bruce Jeffrey, P.O. Box 607, Questa, NM, phone: 586-0068; Gen. Supt.: Sid Moore, same address, phone: 586-0067; Other official: David Eastwood, c/o C.D.K., South Behrend, Farmington, NM Owner—C.D.K. Contracting, P.O. Box 20350, San Antonio, TX 78286 | Taos Co.; 4 mi east of Questa; private land |
| 11-21-80 metal | Operator—Molycorp No. 1 & 2 shafts, Industrial Co. of Steamboat Springs, Box 9056, Steamboat Springs, CO 80477; Gen. Supt.: Wendell Hines, same address, phone: 586-0064 Owner—Union Oil Co. | Taos Co.; 4 mi east of Questa, NM by NM-38; private land |
| 11-21-80 metal | Operator—Molycorp No. 1 & 2 shafts, New Mexico Steel Erectors, Ranken Dr., Albuquerque, NM, phone: 345-5582; Gen. Mgr.: Sam Santos, same address; Person in charge: Troy Hamblin | Taos Co.; 4 mi east of Questa, NM by NM-38; private land |
| 11-24-80 uranium | Operator—Mining Unlimited, Inc., 1215 Randolph Road, Farmington, NM 87401; Gen. Mgr.: Earnest Bowen, 1215 Randolph Rd., Farmington, NM, phone: 327-2914; Others: John Elliott, Les Nunn, both of Farmington, NM Owner—Mining Unlimited, Inc. | Valencia Co.; secs. 6, 15, T. 12 N., R. 9 W.; Mt. Taylor mining district; uranium pit; 6.5 mi north of Milan (first cattle guard north of Homestake mill on right), turn right on dirt road, cross the third guard and turn left, 2½ mi, then turn left again and follow bladed road to mine; federal land |
| 11-27-80 copper, silver, gold | Operator—Silver Reef, Southwest Resources Inc., Gen. Del., Lordsburg, NM; Gen. Mgr.: Ray Schultze, 415 S. Nickel, Deming, NM, phone: 546-3893; Person in charge: David Aker, 201 Cleveland, Central, NM, phone: 537-2376 Owner—Douglas Henry, Hillsboro, NM | Hidalgo Co.; secs. 11, 12, 13, 14, 23, 24, 25, 34, 35, 36, T. 24 S., R. 19 W.; Leitendorf mining district; underground—decline; 5 mi south of Lordsburg, NM, off Animas Road, 1 mi east; state land |
| 11-27-80 silver, silicon | Operator—Silver Dollar, Southwest Resources Inc., Gen. Del., Lordsburg, NM; Gen. Mgr.: Ray Schultze, 415 S. Nickel, Deming, NM, phone: 546-3893; Person in charge: David Aker, 201 Cleveland, Central, NM Owner—Marshal Kuykendahl, Lordsburg, NM | Grant Co.; sec. 33, T. 19 S., R. 16 W.; Burro Mtns. mining district; 9 mi west of NM-90 at Tyrone mine, proceed westerly towards Thompson Canyon; underground—decline; federal land |
| 11-30-80 barite, metallic ores | Operator—Jack Frost, G.L.G. Development Corp., 5757 Alpha Rd., Suite 600, Dallas, TX 75240; Foreman: Lloyd Parnell, Gen. Del., San Acacia, phone: 835-3673; Person in charge: Glen E. Stevenson, Star Route 2, Box 62B, Socorro, NM, phone: 835-0219; Gen. Supt.: Art Murphy, P.O. Box 63, Socorro, NM 87801, phone: 854-2511 Owner—Claude Wallace, P.O. Box 22, Magdalena, NM | Socorro Co.; sec. 19, T. 2 S., R. 3 W.; Kelly mining district; turn north on forest service access road no. 354, drive approximately 1.6 mi, turn left and drive approximately .4 mi to mine site, private land. Minerals: barite, metallic ores |
| 12-29-80 metal | Operator—Tyrone mine, James Hamilton Const. Co., P.O. Drawer 1287, Silver City, NM; Gen. Mgr.: Louis Wood, same address, phone: 388-1546; Person in charge: Jim Bailey, same address, phone; Gen. Supt.: Jim Bailey; Safety Supt.: Jerry Smith, same address, phone | Grant Co.; secs. 14, 23, T. 19 S., R. 15 W.; Burro Mountain mining district; NM-92 south of Silver City to Tyrone mine exit; copper. Works: surface; private property |

(TO BE CONTINUED NEXT ISSUE)

Important Upper Cretaceous ammonite found in New Mexico

Neocardioceras juddii (Barrois and Guerne), a small ornate Upper Cretaceous ammonite (fig. 1) that was originally described from the Paris Basin in France, has been found by S. C. Hook (New Mexico Bureau of Mines and Mineral Resources) and W. A. Cobban (U.S. Geological Survey, Denver) at 13 localities in southwest New Mexico.

Recent investigations of mid-Cretaceous (Albian-Turonian) stratigraphy and ammonite faunas in England and France by W. J. Kennedy and C. W. Wright (Oxford University) and J. M. Hancock (King's College) have revealed the importance of *N. juddii* in international correlation. The species occurs in the Plenus Marls of the Paris Basin and at the base of the Middle Chalk of England as well as in age-equivalent rocks in Germany and Czechoslovakia. The Plenus Marls have been assigned to the uppermost Cenomanian by some authors and to the lowermost Turonian by others. In southwest New Mexico, *Neocardioceras juddii* occurs in the upper part of the Bridge Creek Limestone Member of the Colorado Formation in the Cooke's Range and in the Big and Little Burros and has been assigned an early Turonian age by Hook and Cobban (New Mexico Bureau of Mines and Mineral Resources, Circ. 180).

In England, *N. juddii* occurs in nodules and pebbles overlying a hardground that contains the widely distributed *Sciponoceras gracile* fauna of late Cenomanian age. Of considerable interest is the mode of preservation of the *N. juddii* fauna in New Mexico, where the specimens are partly phosphatized, are encrusted by epifauna, show evidence of erosion and reworking, and immediately overlie concretionary limestone beds that contain the *S. gracile* fauna.

Neocardioceras juddii has also been found by Hook and Cobban at one locality in Trans-Pecos Texas in the Chispa Summit Formation and by J. I. Kirtland (Museum of Northern Arizona) at one locality at Black Mesa, Arizona, in the Mancos Shale.

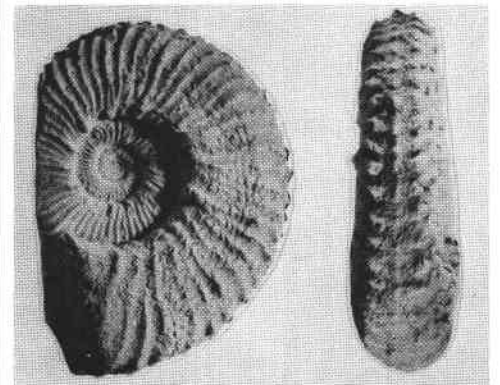


FIGURE 1—*NEOCARDIOCERAS JUDDII* (BARROIS AND GUERNE), NATURAL SIZE, from U.S. Geological Survey Mesozoic locality D10114, Greenhorn Limestone Member, Colorado Formation, Cooke's Range, New Mexico.