



CONTACT INFORMATION

Mining Records Curator
Arizona Geological Survey
1520 West Adams St.
Phoenix, AZ 85007
602-771-1601
<http://www.azgs.az.gov>
inquiries@azgs.az.gov

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ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: CAVE CREEK JASPER

ALTERNATE NAMES:

GEM JASPER
RED HOT
AUTUMN GEM

MARICOPA COUNTY MILS NUMBER: 802

LOCATION: TOWNSHIP 8 N RANGE 5 E SECTION 27 QUARTER S
LATITUDE: N 34DEG 00MIN 04SEC LONGITUDE: W 111DEG 49MIN 38SEC
TOPO MAP NAME: ROVER PEAK - 7.5 MIN

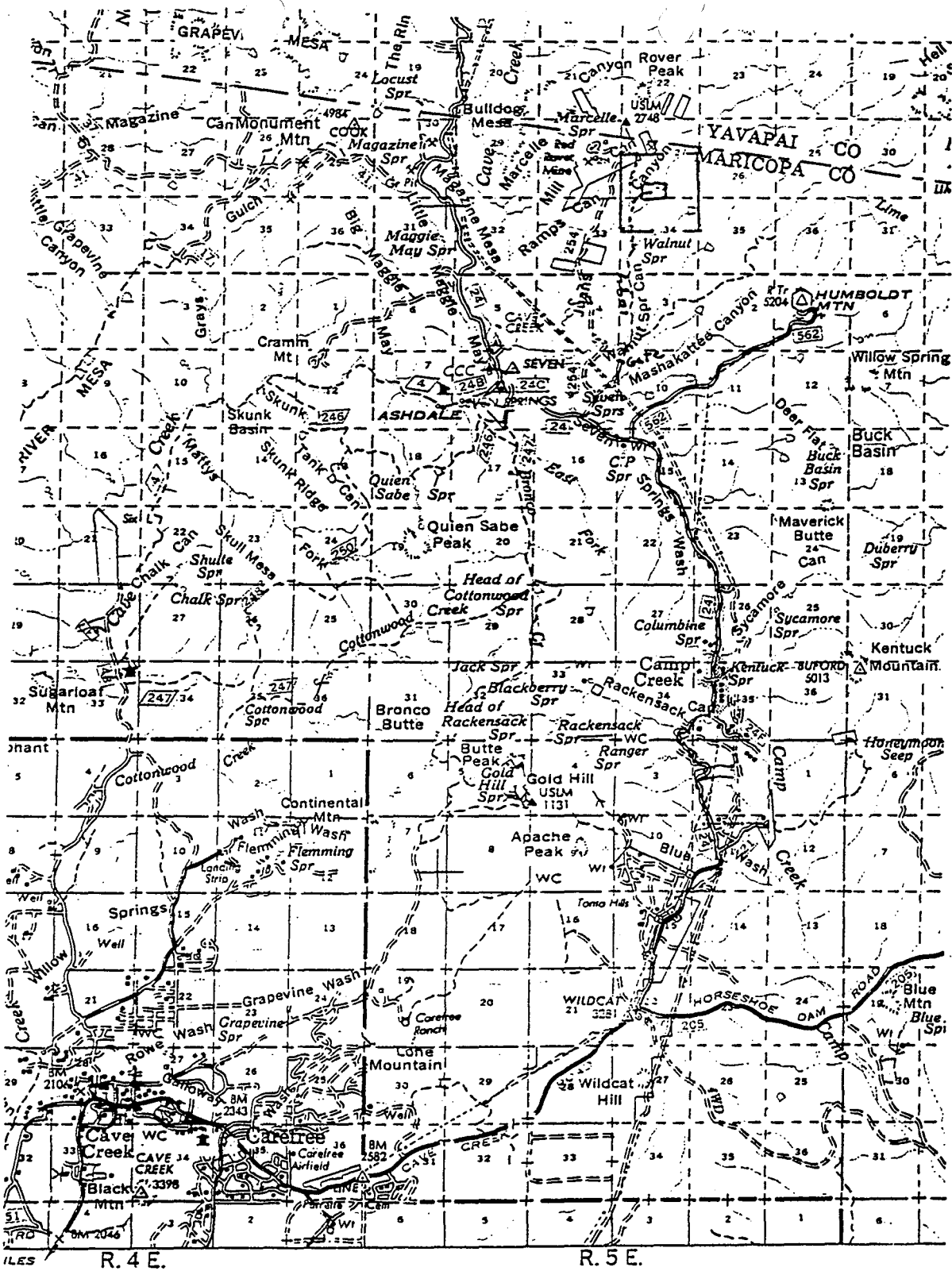
CURRENT STATUS: EXP PROSPECT

COMMODITY:

GEMSTONE JASPER
SILICON

BIBLIOGRAPHY:

ADMMR CAVE CREEK JASPER FILE
AREA INCLUDES N, SEC 34, T4N, R5E
OLDFIELD, R.H., 1995, CLASSIFICATION OF THE
JASPER, CAVE CREEK RANGER DSTRCT (GEO FILE)
MILLER, A.M., AND SINKANKAS, J., 1993, STANDARD
CATALOG OF GEM VALUES, 2ND ED, GEOSCIENCE
PRESS, TUCSON, P 90



T. 8 N.

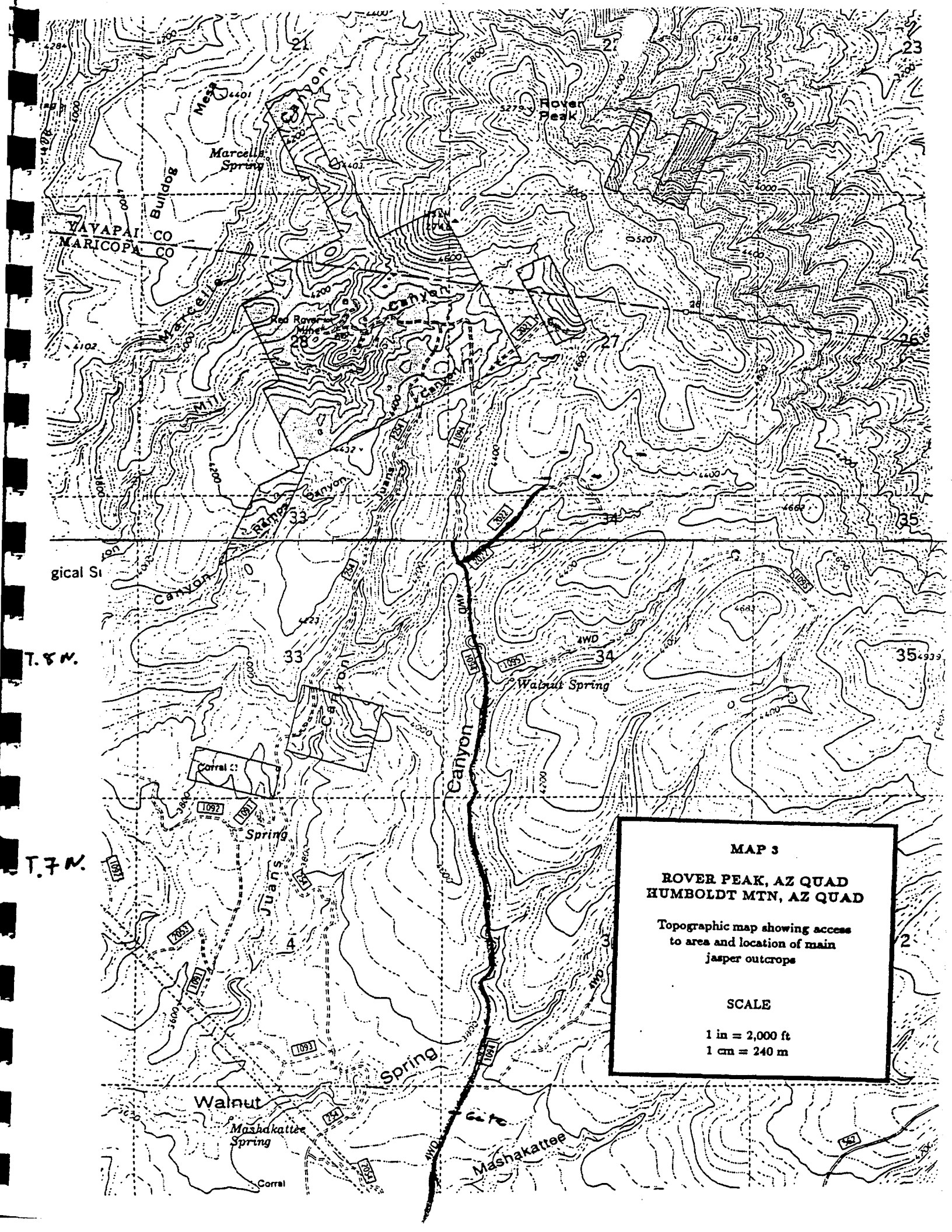
T. 7 N.

T. 6 N.

R. 4 E.

R. 5 E.

MAP 2
CAVE CREEK, AZ Area
 General location of the
 area subject to
 this report.
 SCALE
 1 in = 2.0 mi
 1 cm = 1.3 km



YAVAPAI CO
MARICOPA CO

T. 5 N.

T. 7 N.

MAP 3

ROVER PEAK, AZ QUAD
HUMBOLDT MTN, AZ QUAD

Topographic map showing access
to area and location of main
jasper outcrops

SCALE

1 in = 2,000 ft
1 cm = 240 m



Arizona Department of Mines and Mineral Resources

1502 West Washington, Phoenix, AZ 85007 Phone (602) 255-3795

Toll Free in Arizona 1-800-446-4259 FAX (602) 255-3777

January 24, 1996

Robert H. "Barney" Oldfield
U.S. Forest Service
Arizona Zone Office
2324 E. McDowell Road
Phoenix, Arizona 85006-2497

Dear Mr. Oldfield:

You had asked me to put in writing my comments and thoughts regarding jasper from the Cave Creek area of northern Maricopa County and to describe the samples exhibited to me by Leonard Vilar on or about May 23, 1995. The following are my notes and comments from his visit.

Leonard Vilar, 7675 E. Via Dona Road, Scottsdale, Arizona 85262, phone 602-502-0905 came in to our office and reported he has staked claim(s) on jasper deposits in the "Cave Creek Jasper Area". He reports planning to produce rough gemstone material for the commercial market. He exhibited six samples of jasper he said were from his claims.

He also exhibited a letter from the Tonto National Forest Cave Creek Ranger District that said the National Forest wants to evaluate "locatability" of jasper verses "common variety" which the Forest Service could sell. I suspect that if the jasper were classified as a common variety the District would use the classification to stop the gemstone production from the area.

Mr. Vilar exhibited six samples of red jasper from his claims. Five of them were of obvious gem quality material. Three of those were rough pieces weighing ½ to 2 pounds each. Two were polished specimens. All five gem quality pieces were dense solid material with no sugar texture. Three were all red, but with patterns to the shades of red. Two were red silica and black siliceous hematite. The five were as good or better than any gemstone jasper on display in the Arizona Department of Mines and Mineral Resources' Arizona Mining and Mineral Museum.

Jasper of the quality exhibited by Mr. Vilar sells for \$2.00 to \$12.00 per pound for rough sorted, graded, but uncut, unslabbed, and unpolished material. Slabbed, but not otherwise cut or polished jasper from Arizona's Cave Creek jasper deposits is quoted in Miller, Anna M. and Sinkankas, John, 1993, *Standard Catalog of Gem Values*, 2nd. ed, Geoscience Press, Inc., Tucson, 271 pp. at \$4.00-\$7.00 each for slabs weighing 5-10 ounces (\$0.70-\$0.80 per ounce [\$11.20 - \$12.80 per pound]). Slabbing costs are approximately \$2.00 per pound. Yields of marketable slabs are approximately 75%. Thus using data from the *Standard Catalog of Gem Values* and current industry practice rough gem stone quality Cave Creek jasper would have a value of \$7.50 per pound ($[(12.80+11.20)/2]-2.00 \times 0.75$).

Certainly gemstone ore deposits containing \$7.50 per pound material are uncommon and locatable under the General Mining Law just as are gold deposits containing \$400.00 per ounce gold or fluorspar deposits containing 12¢ per pound fluorspar.

Because a mineral deposit is locatable under the mining laws does not categorically mean that claims on such a deposit are automatically valid. Validity is a result of having sufficient ore to justify development of a mining operation with a reasonable chance of making a profit. In the case of the jasper at Cave Creek there must be sufficient marketable gemstone jasper in a deposit (on a claim) to make mining a potentially viable operation. If there isn't, then such a claim is likely invalid for lack of a discovery regardless of the fact that gem jasper is valuable and locatable. Further, selling rock containing gemstone jasper for common landscape purpose at landscape rock prices is no more a valid use of a mining claim than is selling gold ore for common landscape rock.

Thank you for your interest in Arizona's mines and mineral resources and the opportunity to comment on the jasper deposits at Cave Creek.

Sincerely;

Ken A. Phillips
Chief Engineer