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ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: MBL ZEOLITE GROUP

ALTERNATE NAMES:

MCHEFFY BUTTE MORDENITE

MOHAVE COUNTY MILS NUMBER: 709

LOCATION: TOWNSHIP 18 N RANGE 20 W SECTION 28 QUARTER C  
LATITUDE: N 34DEG 55MIN 02SEC LONGITUDE: W 114DEG 24MIN 43SEC  
TOPO MAP NAME: BOUNDARY CONE - 7.5 MIN

CURRENT STATUS: EXP PROSPECT

COMMODITY:

ZEOLITES MORDENITE

BIBLIOGRAPHY:

ADMMR MBL ZEOLITE GROUP FILE

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25 February 1982

Santa Fe Pacific Railroad Company  
4775 Indian School Road  
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Albuquerque, New Mexico 87190

Attn: William H. Crutchfield, Jr.  
Director of Exploration

Subject: Occidental zeolite claims, Golden Door and  
McHeffy Butte areas; Black Mountains, Mohave  
County, Arizona

At your request, we have examined the mining claim records of the U.S. Bureau of Land Management (as of July 18, 1981) for available information concerning lode claims staked by Occidental Minerals Corporation in the Black Mountains. Claims which we infer to be for zeolites are located in two different areas: One area is located south of the Golden Door mine, in the northern portion of the Spirit Mountain NE 7.5 minute quadrangle; and the other is located at McHeffy Butte, in the southeastern portion of the Boundary Cone 7.5 minute quadrangle.

A third group of claims, which we infer to be for precious metals, was staked by Occidental Minerals Corporation in Sections 13 and 14 of T19N-R20W, in the Mount Nutt 7.5 minute quadrangle. These 11 claims were filed in December of 1977, but no assessment work is recorded as having been performed on any of them.

Golden Door Area

Occidental Minerals Corporation has located 40 lode claims in the Golden Door area, of which 20 lie in Section 4, and 20 in Section 5 of T24N-R21W. Santa Fe Pacific Railroad Company holds the mineral rights to all of Section 5. The claims were located on December 15th and 16th, 1979, and assessment work is recorded as having been performed through 1980 for all of the claims on both sections. The name of the agent who staked the claims was Stan Pellow.

The terrane in the Golden Door area consists of a west-dipping sequence of rhyolite tuffs and ignimbrites, intruded by large bodies of rhyolite and quartz latite.

McHeffy Butte Area

Occidental Minerals Corporation has located 86 lode claims in

*also see claims  
E of Antone Pass*

*RIL*

William H. Crutchfield, Jr.

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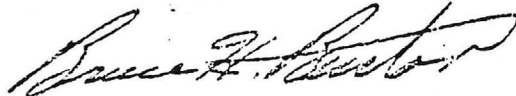
the McHeffy Butte area, of which 4 lie in Section 27, 32 lie in Section 28, 4 lie in Section 33, and 46 lie in Section 34 of T18N-R20W. Santa Fe Pacific Railroad Company holds the mineral rights to Section 33. The claims were located on December 10th, 11th, and 12th, 1979, and assessment work is recorded as having been performed through 1980 for all of the claims on each section.

The terrane in the McHeffy Butte area consists of andesite and rhyolite tuffs.

Enclosed are copies of two articles which briefly reference Occidental's zeolite interests. These articles appeared in the May 1981 issue of Mining Engineering and the 14 December 1981 issue of Business Week.

Please let me know if you have any questions.

Sincerely,



Bruce H. Burton  
Geologist

and breaks with a conspicuous conchoidal fracture. Overlying it is a clastic tuff containing unaltered rock fragments in a matrix of yellowish-white altered vitric ash and pumice. The contact between the two lithologies seems to be gradational. The base of the bed is concealed by recent alluvium and talus. Basalt and andesite flows overlie the tuff bed.

P. 18-19  
Zeolite Book  
12

#### The Cottonwood Road Clinoptilolite Occurrence

Clinoptilolite occurs in an altered rhyolite tuff or flow in the Black Mountains in T.25N., R.21W., about 26.5 miles northwest of Kingman, Arizona. The occurrence is along the Cottonwood road, 14.5 miles west of U.S. Highway 93.

\* The McHeffy Butte and McHeffy Butte South Mordenite Occurrences

Mordenite occurs in a brownish-yellow altered clastic tuff near McHeffy Butte in the Black Mountains in T.18N., R.20W. The occurrence is 1.1 mile west of old U.S. Highway 66 at a point 10 miles south of Oatman, Arizona.

Mordenite also occurs in a gritty to pebbly, bedded, light yellowish-white tuff bed that dips 20 S. The bed is about 50 feet thick and can be traced eastward for about 300 feet.

#### The Mohave Ranchos Clinoptilolite Occurrence

A thin-bedded light gray to light brown altered clastic tuff about 100 feet thick that contains clinoptilolite crops out in the Mohave Ranchos area near the 1/4 corner between Sections 29 and 30, T.26N., R.19W. Though not in the Black Mountains, this occurrence is in the Gold Road volcanics as are several of the mordenite-clinoptilolite occurrences in the Black Mountains.

#### The Oatman Clinoptilolite Occurrence

A pale greenish-white altered tuff bed 20 feet thick containing clinoptilolite is exposed in a road cut on the south side of old U.S. Highway 66 about 3.5 miles northeast of Oatman, Arizona.

#### The Topock Clinoptilolite Occurrence

Clinoptilolite occurs in a white tuff 15.4 miles north of Topock along Oatman