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PRINTED: 12/17/2002

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: BURRO CREEK CLAY

ALTERNATE NAMES:

MOHAVE COUNTY MILS NUMBER: 433A

LOCATION: TOWNSHIP 14 N RANGE 10 W SECTION 7 QUARTER W2
LATITUDE: N 34DEG 34MIN 09SEC LONGITUDE: W 113DEG 21MIN 05SEC
TOPO MAP NAME: GRAYBACK MTS - 7.5 MIN

CURRENT STATUS: PRODUCER

COMMODITY:
CLAY SAPONITE
CLAY BENTONITE

BIBLIOGRAPHY:
ADMMR BURRO CREEK CLAY FILE
SCHREINER, RUSSELL A. MIN RES OF LOWER BURRO CREEK WILDERNESS P. 12-15 MLA 51-85 GEO FILE
PATTERSON, S. MINERAL & WATER RES OF AZ AZBM BULL 180, P 329, 1969
HOSTERMAN,J.W. & PATTERSON,S.H.,1992, BENTONITE & FULLER'S EARTH RESOURCES OF THE U.S., U.S. GEOL. SUR. PROF. PAPER 1522, P. 15, 20

VERBAL INFORMATION SUMMARY

12/12/98
Diane Bain
Subject: Saponite
Mine: Burro Creek Clay (file) Mohave County

Ted, Eyde, owner of GSA Resources Inc. was in to donate a 15-pound sample of saponite clay from his Burro Creek Clay mine in Mohave County. He said the saponite - is actually trioctahedral smectite, a high magnesium clay. It is 20 percent maganesium oxide and 1 percent lithium oxide.

The clay is shipped to Southern Clay Products in Gonzales, TX where it is processed and sold for stripping ink from white paper. It removes organics from a system that is water-based. It is also used in paints as a suspension agent. It is an essential ingredient in dripless paints. They clay causes the paint to be liquid only while in sheer.

ABSTRACTED FROM ADMMR ACTIVE MINES DIRECTORY, 1992

Mohave County

GSA RESOURCES INC.

P.O. Box 509, Cortaro, AZ 85652 - Phone 297-4330 - Employees: 16 (including contractors).
President Ted H. Eyde
Vice President Daniel T. Eyde
Product Manager J. Micheal Canty
Lyles Mine T13N R6W Secs. 11, 12
Open pit clay mine located west of Kirkland - Hectorite clay -Used as viscosifiers and thickeners in pharmaceuticals and cosmetics.
Grace Chabazite Mine T12S R29E Secs. 1, 2, 12
Open pit mine located 13 miles north of Bowie - Chabazite - U sed for cation exchange media and specialty adsorbants and deodorizers - Shipped out of state for further processing.
Burro Creek Clay T14N R10W Sec. 7
Open pit clay mine located 8 miles southwest of Bagdad along Burro Creek - Saponite clay - Shipped out of state for manufacture into viscosifiers for industrial lubricants and coatings.

ABSTRACTED FROM ADMMR ACTIVE MINES DIRECTORY, 1991

GSA RESOURCES INC.

P.O. Box 509, Cortaro, AZ 85652 - Phone 297-4330 - Employees: (including contractors) 16.
President ..... Ted H. Eyde
Vice President ..... Daniel T. Eyde
Burro Creek Clay T14N R10W Sec. 7
Open pit saponite clay mine located 8 miles southwest of Bagdad along Burro Creek - Saponite clay shipped out of state for manufacture into viscosifiers for industrial lubricants and coatings.

ABSTRACTED FROM ADMMR ACTIVE MINES DIRECTORY, 1990

GSA RESOURCES INC.

P.O. Box 509, Cortaro, AZ 85652 - Phone 297-4330 - Employees: (including contractors) 16.
President ..... Ted H. Eyde
Vice President ..... Daniel T. Eyde
Burro Creek Clay T14N R10W Sec. 7
Open pit saponite clay mine located 8 miles southwest of Bagdad along Burro Creek - Saponite clay shipped out of state for manufacture into viscosifiers for industrial lubricants and coatings.

ABSTRACTED FROM ADMMR ACTIVE MINES DIRECTORY, 1989

GSA RESOURCES INC.

P.O. Box 509, Cortaro 85652 - Phone 297-4330 - Employees (including contractors) 16.

President ..... Ted H. Eyde
Vice President ..... Daniel T. Eyde

Burro Creek Clay T14N R10W Sec. 7

Open pit saponite clay mine located 8 miles southwest of Bagdad along Burro Creek - Saponite clay shipped out of state for manufacture into viscosifiers for industrial lubricants and coatings.

ABSTRACTED FROM ADMMR ACTIVE MINES DIRECTORY, 1988

GSA RESOURCES INC.

P.O. Box 509, Cortaro 85652 - Phone 297-4330 - Employees (including contractors) 16.

President ..... Ted H. Eyde
Vice President ..... Daniel T. Eyde

Burro Creek Clay T14N R10W Sec. 7

Open pit saponite clay mine located 8 miles southwest of Bagdad along Burro Creek - Saponite clay shipped out of state for manufacture into viscosifiers for industrial lubricants and coatings.

Ariz pea

May 22, 1963

Hoyt Resource Corp.
P.O.B. 1672
Scottsdale, Arizona.

Dear Mr. Hoyt;

In closed you will find a copy of Mr.W.N. McAnulty report on the Magnesite claims that we have. How ever since McAnulty visited the area, we have had the Bulldozer work done and I am sure that if McAnulty could see the same area now, he would increase his estimated tonage by quite a some.

Also I am inclosing some of the Copper Assay's from our claims, sorry that I don't have a more complete report for you at this time but we have givin coppies to several differant one's and we have just ran out. I would like to hear from you as soon as you have any thing of interest on either the Copper or the Magnesite, or if you have or can get work for the Bulldozer.

Yours truly

William L. Holland
3928 W. Orange Dr.
Phoenix 19, Ariz.

Tel. ph
Ye 7-6904

PRELIMINARY REPORT ON MAGNESITE IN MOHAVE COUNTY, ARIZONA

By
W. N. McAnulty
Minerals Department
THE DOW CHEMICAL COMPANY, TEXAS DIVISION
Freeport, Texas

Introduction

Potentially significant occurrences of magnesite located near Burro Creek in the Greenwood Mining district, Mohave County, Arizona, have been studied and sampled by the writer and G. C. Egleson. The deposits are, in part, on 14 mining claims (approximately 300 acres) held by E. E. Lowry and Charles Mills, Phoenix, Arizona;..... There are numerous outcrops of magnesite, magnesite-dolomite, and magnesitiz ed sediments on contiguous free land; small discontinuous outcrops can be seen over an area of about 15 square miles.

Geology

The magnesite is in a tuffaceous, bentonitic shale formation which is part of a Tertiary volcanic and sedimentary series. The magnesite appears to be the result of hydrothermal alteration of "fresh-water" (lacustrine) dolomite in the shale formation. The dolomite does not form a continuous bed of uniform thickness and conosition; rather there are lenses of variable lateral extent and thickness at different horizons in the shale formation. The amount and degree of magnesitiz ation of the dolomite and contiguous sediments vary appreciably from outcrop to outcrop and within a single outcrop. The tertiary series including the upper part of the host shale formation, is exposed at many places in slopes along numerous, structurally controlled arroyos. However, the slopes are generally covered by a thin mantle of talus and/or colluvium and continuity of horizons cannot be observed.

The Deposits

Outcrops of white, magnesite-like materials are abundant in the area. Outcrops of a type of very white, fine-grained, porcelaneous material, easily recognizable as high-grade magnesite are less abundant but numerous. Close attention to some outcrops reveals that dolomite is dominant. Outcrops of a very white but slightly silty material are difficult to classify grade-wise in the field. Based on the few analytical data available as of the writing of this report, the silty type lacks the high purity of the porcelaneous type, but samples from some outcrops contained up to 90% $MgCO_3$. (see Table 1) Then there are sizeable outcrops of white and near white sandstone, shale, or dolomite which are only slightly magnesitized. Every outcrop which on casual examination might appear to be magnesite may or may not be a commercial deposit, and because of the variation detailed sampling and analytical work will be required to determinedthe full potential of the area.

PRODUCT DEVELOPMENT

ARC LABORATORIES

Division of Arizona Research Consultants, Inc.
8236 NORTH 10TH AVE. PHOENIX, ARIZONA 85021 WINDSOR 2-3573

BURRO CREEK BENTONITE

DATE 12/2/64

LAB No. 8370-71

RESULTS

8370 Buff clay 8371 White clay

	8370		8371	
Silica	34.88	%	22.68	%
Iron (Fe_2O_3)	1.43		0.87	
Alumina	6.01		3.45	
Calcium oxide	15.5		23.7	
Magnesium oxide	9.68		11.20	
Sodium oxide	0.29		0.70	
Potassium oxide	0.90		0.118	
Free water	6.00		1.92	
Combined water (1000°F)	4.20		2.65	
Total loss on ignition 1700°F H_2O plus CO_2	29.80		38.56	
CaO calculated as $CaCO_3$	27.7		42.3	
MgO " " $MgCO_3$	20.2		23.4	

Respectfully submitted,
ARC LABORATORIES

John T. Long, Jr.