



## **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](mailto:inquiries@azgs.az.gov)

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Arizona Department of Mines and Mineral Resources Mining Collection

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PRINTED: 08/16/2002

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: SULFA GROUP

ALTERNATE NAMES:  
SAPPHIRE 1-8

LA PAZ COUNTY MILS NUMBER: 803

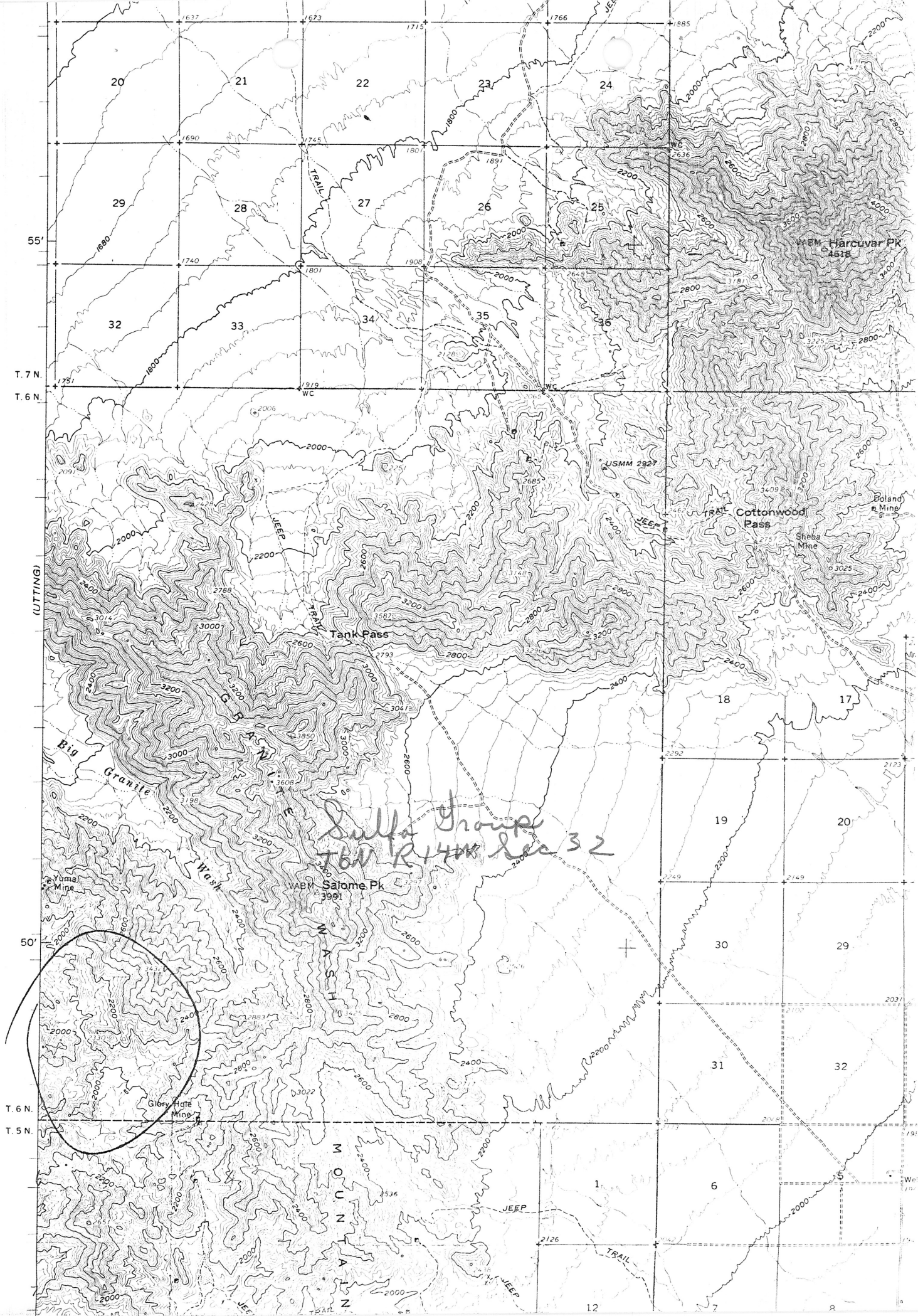
LOCATION: TOWNSHIP 6 N RANGE 14 W SECTION 32 QUARTER N2  
LATITUDE: N 33DEG 49MIN 20SEC LONGITUDE: W 113DEG 44MIN 23SEC  
TOPO MAP NAME: SALOME - 15 MIN

CURRENT STATUS: RAW PROSPECT

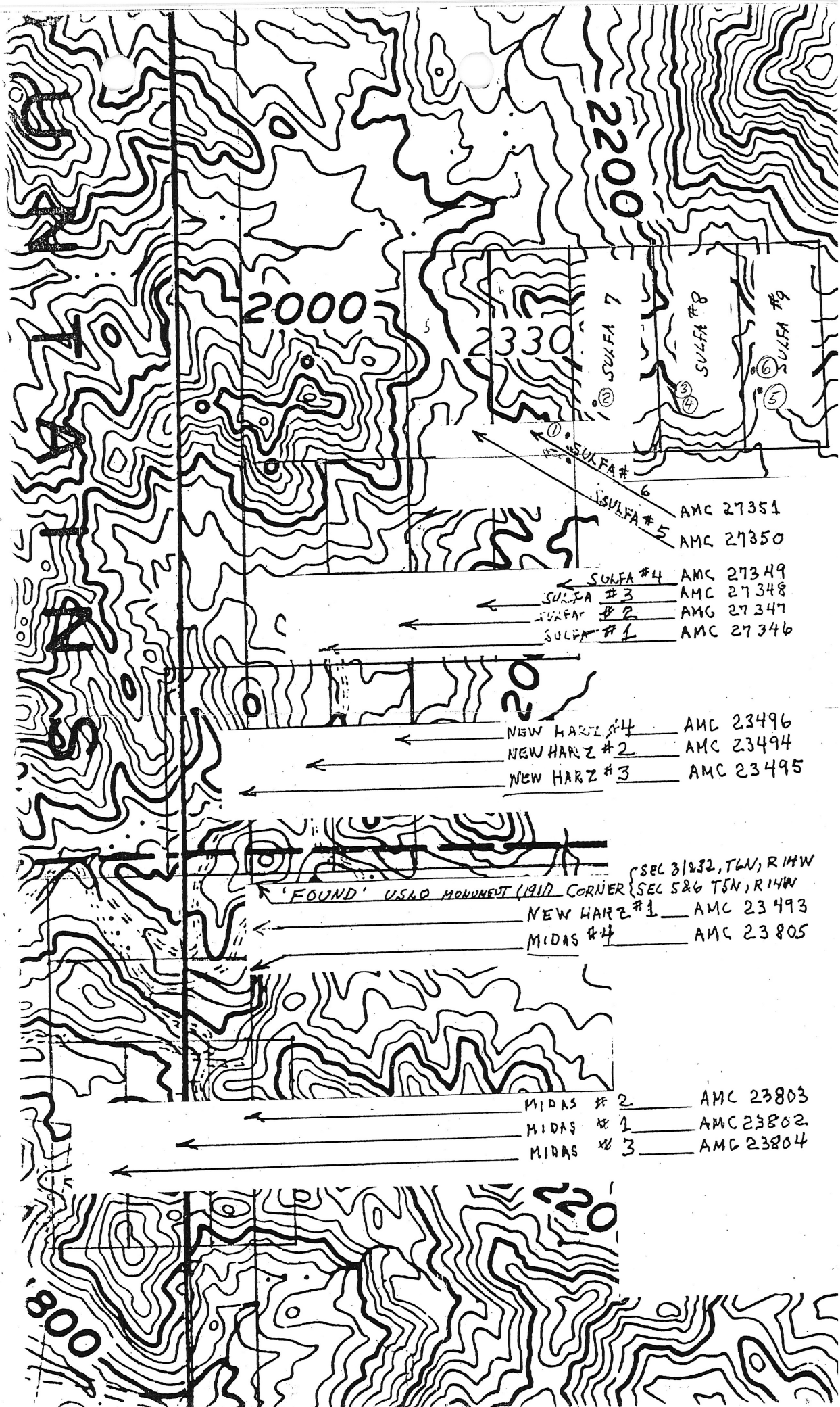
COMMODITY:  
KYANITE  
KYANITE SILLIMANITE  
KYANITE ANDALUSITE

BIBLIOGRAPHY:  
ADMMR SULFA GROUP FILE





Sulla Group  
T6N R14W Sec 32



2200

2000

800

SURFA #7  
SURFA #8  
SURFA #9  
SURFA #1  
SURFA #2  
SURFA #3  
SURFA #4  
SURFA #5  
SURFA #6

AMC 27351  
AMC 27350  
AMC 27349  
AMC 27348  
AMC 27347  
AMC 27346

NEW HARZ #4  
NEW HARZ #2  
NEW HARZ #3

AMC 23496  
AMC 23494  
AMC 23495

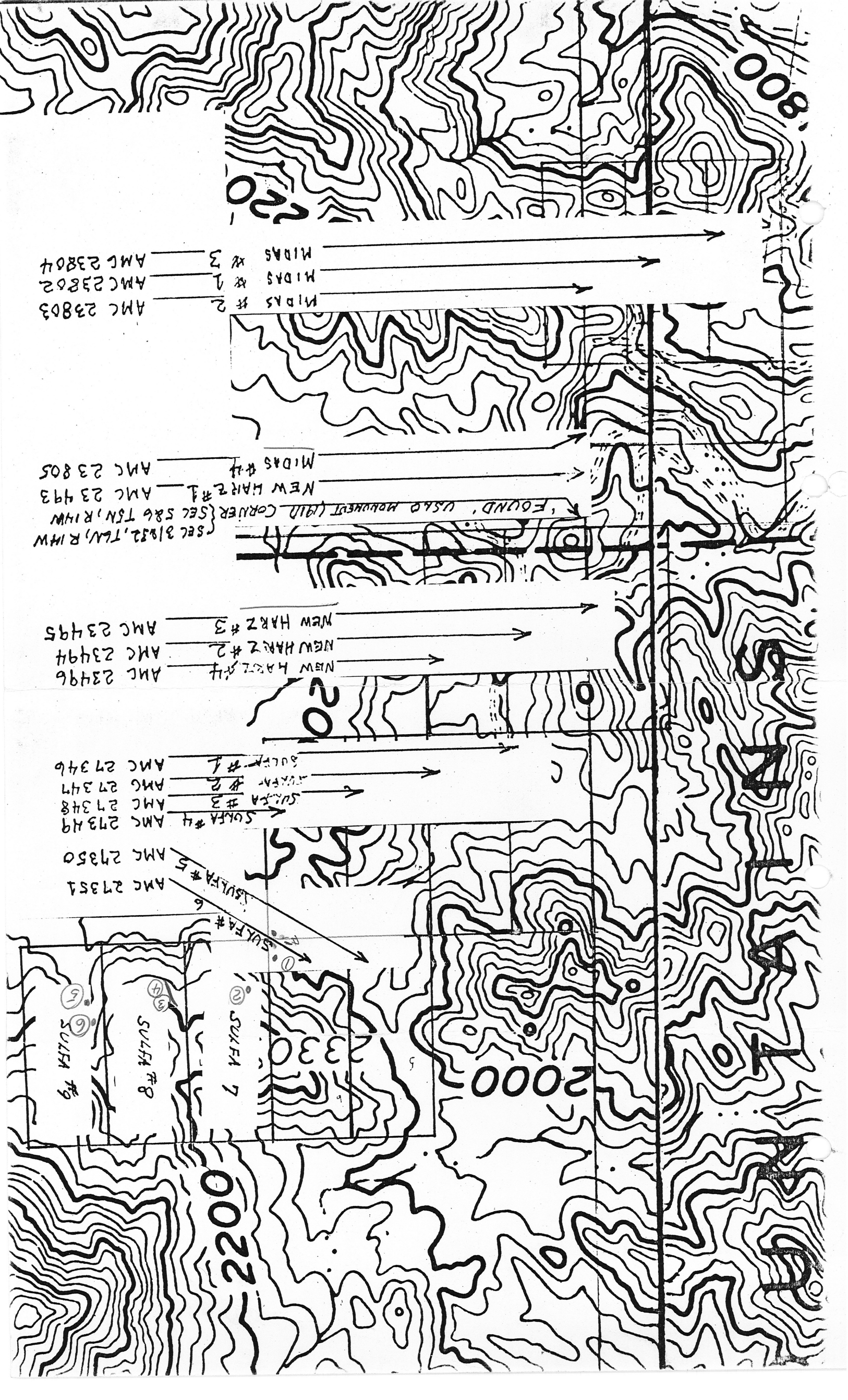
'FOUND' US&O MONUMENT (MID CORNER)  
NEW HARZ #1  
MIDAS #4

SEC 31&32, T6N, R14W  
SEC 5&6 T5N, R14W  
AMC 23493  
AMC 23805

MIDAS #2  
MIDAS #1  
MIDAS #3

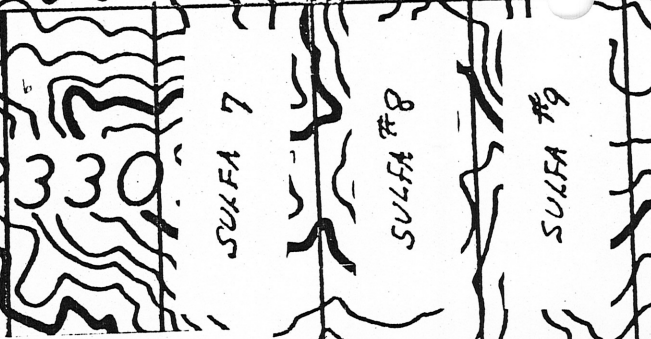
AMC 23803  
AMC 23802  
AMC 23804





2000

2200



SULFA #6 AMC 27351  
SULFA #5 AMC 27350

SULFA #4 AMC 27349  
SULFA #3 AMC 27348  
SULFA #2 AMC 27347  
SULFA #1 AMC 27346

NEW HARTZ #4 AMC 23496  
NEW HARTZ #2 AMC 23494  
NEW HARTZ #3 AMC 23495

SEC 31W32, T6N, R14W  
SEC 526 T5N, R14W  
'FOUND' US40 MONUMENT (1917) CORNER  
NEW HARTZ #1 AMC 2349  
MIDAS #4 AMC 23805

MIDAS #2 AMC 23803  
MIDAS #1 AMC 23802





OFFICE PHONE  
714/234-1851

RES. PH 278-2192  
TWX 335-1219

P.O. BOX 12040  
SAN DIEGO, CALIFORNIA 92112-3040

**SHEPARD K. NASH, JR.**  
AREA MANAGER

**CRESCENT WHARF & WAREHOUSE CO.**  
SAN DIEGO TERMINAL & WAREHOUSE  
SAN DIEGO BONDED WAREHOUSE • FREIGHT HANDLERS, INC.

Cominco American Incorporated/No. 1 Westbury Square  
St. Charles, Missouri 63301/Office (314) 723-5418



**WILLIAM L. MANSKER, PH.D.**  
Geologist

WESTERN DIVISION  
P.O. BOX 785  
IONE, CA 95640

(209) 274-2471



**JOHN Y. COLE, JR.**  
MANAGER OF MINES

**North American Refractories Co.**  
An  **ALLIED** Company

**Nissho-Iwai  
American  
Corporation**

Broadway Plaza  
Suite 1900  
700 South Flower Street  
Los Angeles, California 90017

Telex  
WU 67-4120  
TWX 910-321-5765

**AKINORI UEDA**  
Assistant Manager  
General Commodity Dept

(213) 688-0681

# INDUSTRIAL MINERALS INC.

---

1000 FIRST AVENUE, SUITE 206, BUILDING NO. 1 • KING OF PRUSSIA, PA 19406

215-337-8470

TWX: 510 660 2080

April 20, 1982

Strategic Resources, Inc.  
315 Standard S. E.,  
Albuquerque, New Mexico 87106

Attention: Mr. Charles E. Willmore, President

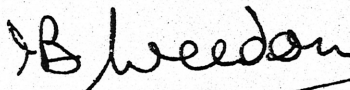
Dear Mr. Willmore:

Thank you for your letter of April 1st to Mr. C. H. Gehret who no longer is with this company. I read with interest your comments in your letter. I would like to possibly discuss the kyanite with you after I return from Europe which will be some time in early June.

Again, thank you for writing to us.

Kind regards,

INDUSTRIAL MINERALS, INC.



Ian B. Weedon  
President

IBW:amm



Exploration and Geology

Ted Willmore  
315 Stanford S. E.  
Albuquerque, New Mexico 87106

April 1, 1982

Dear Ted:

Our budgets for 1982 are being finalized and I will not be working in Arizona this year.

As a result, I will be unable to visit your Pandora's Box claims as I had hoped. If our plans change I will advise you.

Thank you for your help and best wishes for your success.

Very truly yours,

A handwritten signature in dark ink, appearing to read 'Michael A. Hepp', is written over the typed name.

Michael A. Hepp  
Project Geologist

MAH:al

cc: Bill Mansker



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San Diego

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Chula Vista

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assistant port director

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1-10-1, Yurakucho, Chiyoda-ku  
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Suite 1112, Melbourne Plaza  
Hong Kong, B.C.C.

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Seoul,  
Republic of Korea

George A. Dew  
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Metro Manila  
Republic of the Philippines

**PORT TALK:** International Association of  
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Joffroy Brokers, Inc., San Ysidro, 428-1168  
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Porter International, Inc., San Diego, 298-0571  
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San Diego International Marine, San Diego,  
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**DREDGING FIRMS**

Pacific Dredging, 232-0881

**FOR FURTHER INFORMATION,  
PLEASE CONTACT:**

Robert A. Mercer  
director, Trade Development  
Port of San Diego  
Post Office Box 488  
San Diego, California 92112  
Telephone: (714) 291-3900

**TOLL FREE CALLS**

For toll free calls outside of California to the  
Port of San Diego just dial 800-854-2757.



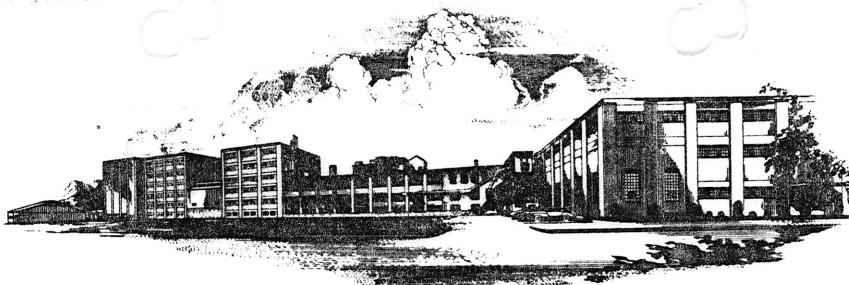
*The San Diego Unified Port District*  
Mailing Address: P.O. Box 488, San Diego, California 92112  
General Offices: 3165 Pacific Highway, San Diego, California  
Telephone: 291-3900

November, 1979

BULK RATE  
U.S. POSTAGE  
**PAID**

San Diego, California  
PERMIT NO. 258

**ADDRESS CORRECTION  
REQUESTED**



## COORS PORCELAIN COMPANY

GOLDEN, COLORADO 80401

(303) 278-4000 TELEX 45-593

April 12, 1982

Mr. Charles E. Willmore  
President  
Strategic Resources, Inc.  
315 Stanford S.E.  
Albuquerque, New Mexico 87106

Dear Mr. Willmore:

This will acknowledge your letter of April 1, 1982, outlining an orebody of kyanite which you have available for development.

Coors Porcelain Company is not primarily in the refractories field; and, as a result, we would not have any interest in this deposit.

We do thank you for thinking of Coors Porcelain Company.

Very truly yours,

Derald Whiting  
President

RDW:pmp



THE UNIVERSITY OF NEW MEXICO | ALBUQUERQUE, NEW MEXICO 87131  
DEPARTMENT OF GEOLOGY | TELEPHONE 505-277-4204

January 31, 1979

Ted Willmore  
315 Stanford S.E.  
Albuquerque, NM

Dear Mr. Willmore:

Enclosed is a summary report of the kyanite sample you provided me. I apologize for not completing the study sooner, as it is very interesting; however, other duties kept me occupied.

I hope you find the summary of use in evaluating the kyanite deposit, it certainly looks promising if the volume of material is sufficient to maintain an operation.

Please contact me if I can be of further service.

Sincerely,

A handwritten signature in cursive script, reading 'W. Mansker'.

William L. Mansker  
Research Assistant



2901 LOS FELIZ BOULEVARD, LOS ANGELES, CALIFORNIA 90039 213-663-3361 TWX 9103214290 INTERPACE LSA  
P.O. BOX 1111, GLENDALE, CALIFORNIA 91209 CABLE: INTERPACE

January 12, 1979

Mr. Ted Willmore  
315 Stanford Southeast  
Albuquerque New Mexico 87106

Dear Mr. Willmore:

Preliminary tests on a composite sample of your kyanite ore deposit have been completed. Mineralogically, the deposit consists of major quartz (60%) and kyanite with minor and trace amounts of pyrophyllite, kaolinite, andalusite, mica, feldspar, and montmorillonite. Although this deposit contains trace amounts of undesirable minerals, thermal and physical tests indicate that the material could be of value to us. Further testing is currently being conducted to determine the material's feasibility as a refractory.

In the near future, our Mining Department would be interested in conducting a geological investigation of this deposit.

Sincerely yours,

A handwritten signature in dark ink, appearing to read 'Douglas Yoshida', written in a cursive style.

Douglas Yoshida  
Mineralogist

DY/ba

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public and these laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from these laboratories.

INTERPACE Corporation assumes no responsibility or liability for results or damages resulting from faulty sampling procedures or misuse of test information.

# *Strategic Resources Inc.*

315 STANFORD S.E., ALBUQUERQUE, NEW MEXICO 87106  
(505) 268-3534

March 23, 1982

Mr. Jan Bowman  
General Manager Eng. & Raw Materials  
Kaiser Refractories  
Division Kaiser Alum. & Chemical Corp.  
300 Lakeside Drive  
Oakland, California 94643

Dear Mr. Bowman:

Strategic Resources Company is the sole owner of a large massive kyanite orebody located in Western Arizona. This newly discovered kyanite orebody contains a substantial quantity of high alumina (60%+), remarkably pure lump kyanite which in its natural state, is at least the equal of the kyanite shipped from India over a number of years. The low iron and titanium content of this ore makes it especially attractive and places it in a class by itself.

The orebody is ideally situated with respect to economic considerations. It lies approximately 6 miles down an easily maintained all weather gravel road which in itself connects to a good hard surfaced state maintained highway. This road is paralleled by Santa Fe Railroad trackage with nearby sidings.

The orebody itself is exposed over large areas with little or no overburden in many places and will readily lend itself to a quarrying or open pit type of operation. It immediately becomes apparent to a qualified observer, that this orebody is so extensive as to be practically inexhaustible to supply world wide needs for many decades to come.

We at Strategic Resources believe that it might be mutually beneficial to enter into some kind of joint arrangement with an already well established refractories firm to develop and market this kyanite.

If you are seriously interested in looking into this matter, please contact me for further information.

Sincerely yours,

Charles E. Willmore,  
President

SULFA GROUP

Kyanite-Andalusite-Sillimanite

YUMA CO.  
Ellsworth Dist.

KP/WR 2/26/79 - Discussed sillimanite, kyanite and andalusite with Ted Willmore of Albuquerque, New Mexico, phone 505-255-7362. He owns the Sulfa Group of claims in Secs. 31 and 32, T6N, R14W and Secs. 5 & 6, T5N, R14W, Ellsworth District, Yuma County in the Granite Wash Mountains, Salome 15' quadrangle and Utting 15' quadrangle. He stated that the property has been sampled by an associate of Johns Manville who estimated the property to contain 100,000,000 tons of material containing kyanite and related minerals. Mr. Pasco, V.P. mining & exploration of Combustion Engineering plans to visit the property with Mr. Willmore on March 9, 1979, Department engineers have been invited to accompany them to the property. 4/13/79 a.p.

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KAP WR 4/30/82: Ted Wilmore reported he has a scheelite (tungsten) occurrence on his Pandora's Box Mine.

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RRB WR 7/9/82: Ted Willmore of Strategic Resources, Inc., 315 Stanford S.E., Albuquerque, N.M. 87106, owner of the Sulfa Group, Ellsworth District, Yuma County, and Joe Davis were in to put some information in our file. He has changed the name to the Saffire Group. He reported that he has been in contact with several companies and provided copies of their replies for us and a copy of a report by William L. Mansker.

---

PLEASE NOTE DATE!!

KAP 6/26/82: Mr. Ted Wilmor (Strategic Resources) called from Albuquerque telephone 505-268-3534. (The Yuma County Kyanite). He wants help in obtaining freight rates to Mexico, Missouri, Vancouver and Los Angeles, plus data on how severance taxes will be applied to Kyanite. He has Japanese Trading companies, A. P. Greene (Missouri), Kaiser Aluminum and others interested.

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SUMMARY REPORT OF  
KYANITE SAMPLE WK-1

Submitted to T. Willmore  
by W.L. Mansker, R.A.

DATE: January 31, 1979

# MICROPROB DETERMINATIONS OF KYANITE

POINT 1

1 CA	16	K	326	NA	88	FE	117	BC	14440
2 CA	15	SI	18447	MG	202	FE	109	BC	14457
3 CA	9	SI	18445	AL	81430	FE	104	BC	14472

	COUNTS	PEAK/BG	UNC	WT%	CORR WT%	SD
SID2	18446	415	34.51	37.11	0.20	
AL2O3	81430	178	65.46	63.23	0.26	
K2O	326	1	0.01	0.01	0.00	
NA2O	88	1	0.00	0.00	0.03	
CAO	13	0	0.00	0.00	-0.00	
MGD	202	0	0.00	0.00	-0.01	
FEO	110	2	0.23	0.23	0.01	
4	TOTAL		100.22	100.59		

POINT 2

1 CA	14	K	317	NA	95	FE	97	BC	14478
2 CA	18	SI	18410	MG	223	FE	122	BC	14464
3 CA	14	SI	18573	AL	81170	FE	98	BC	14457

	COUNTS	PEAK/BG	UNC	WT%	CORR WT%	SD
SID2	18491	416	34.60	37.20	0.20	
AL2O3	81170	178	65.32	63.09	0.26	
K2O	317	1	0.01	0.01	0.00	
NA2O	95	1	0.02	0.02	0.03	
CAO	15	1	0.01	0.01	0.00	
MGD	223	0	0.00	0.00	-0.01	
FEO	105	1	0.21	0.22	0.01	
4	TOTAL		100.17	100.54		

POINT 3

1 CA	12	K	355	NA	100	FE	143	BC	14438
2 CA	21	SI	18510	MG	214	FE	173	BC	14443
3 CA	16	SI	18311	AL	80084	FE	128	BC	14449

	COUNTS	PEAK/BG	UNC	WT%	CORR WT%	SD
SID2	18410	414	34.49	37.05	0.20	
AL2O3	80084	176	64.48	62.34	0.26	
K2O	355	1	0.02	0.02	0.00	
NA2O	100	1	0.03	0.03	0.03	
CAO	16	1	0.01	0.01	-0.00	
MGD	214	0	0.00	0.00	-0.01	
FEO	148	2	0.39	0.40	0.02	
4	TOTAL		99.42	99.85		



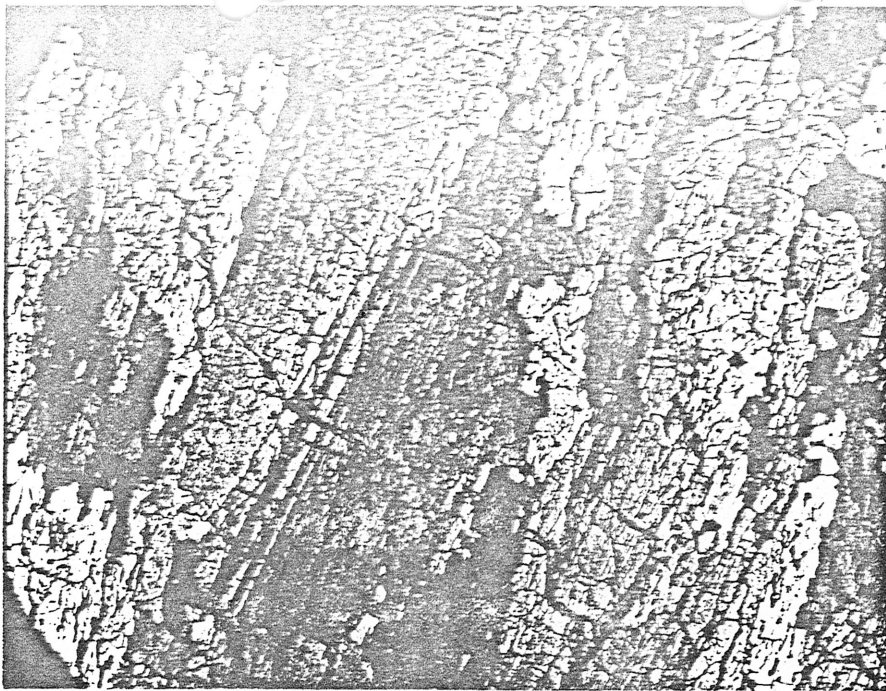
REPRESENTATIVE  
MICROPROBE DETERMINATIONS OF PYROPHYLLITE

POINT	3								
1 CA	11	K	337	NA	103	FE	90	BC	14411
2 CA	17	SI	36909	MG	203	FE	101	BC	14400
3 CA	16	SI	36614	AL	36068	FE	96	BC	14366

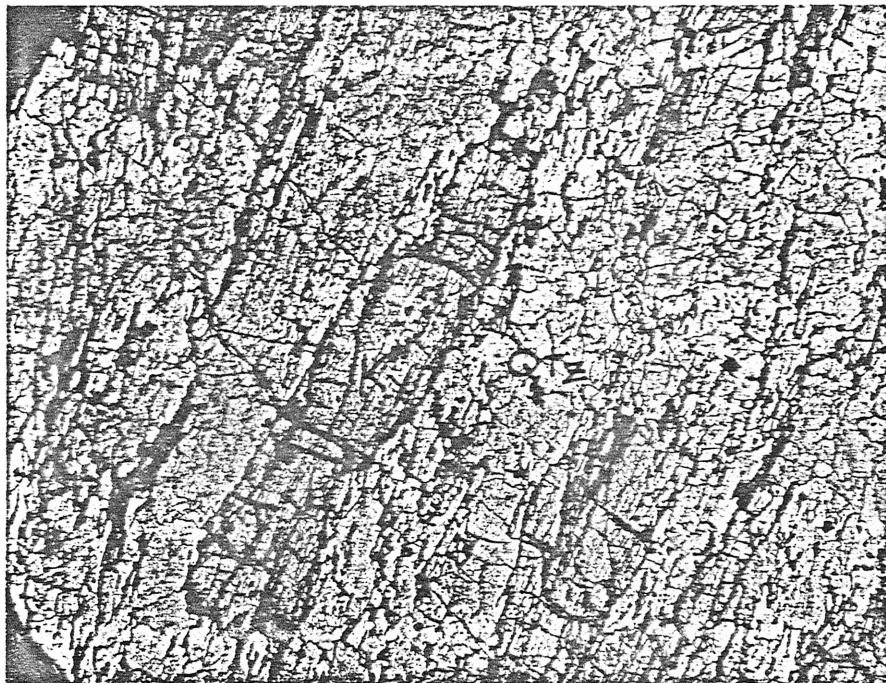
	COUNTS	PEAK/BG	UNC	WT%	CORR	WT%	SD
SID2	36761	831		69.25	67.41		0.31
AL2O3	36068	79		29.01	28.35		0.16
K2O	337	1		0.01	0.01		0.00
NA2O	103	1		0.04	0.04		0.03
CAO	14	1		0.01	0.01		0.00
MGD	203	0		0.00	0.00		-0.01
FEO	95	1		0.17	0.18		0.01
4		TOTAL		98.49	95.99		

#									
POINT	4								
1 CA	25	K	475	NA	103	FE	80	BC	14334
2 CA	16	SI	37313	MG	199	FE	61	BC	14339
3 CA	18	SI	37213	AL	35877	FE	79	BC	14324

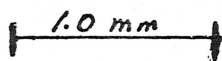
	COUNTS	PEAK/BG	UNC	WT%	CORR	WT%	SD
SID2	37263	846		70.45	68.49		0.32
AL2O3	35877	79		28.94	28.27		0.16
K2O	475	1		0.06	0.06		0.00
NA2O	103	1		0.04	0.04		0.03
CAO	19	1		0.03	0.04		0.00
MGD	199	0		0.00	0.00		-0.01
FEO	73	1		0.08	0.08		0.00
4		TOTAL		99.59	96.97		



A



B

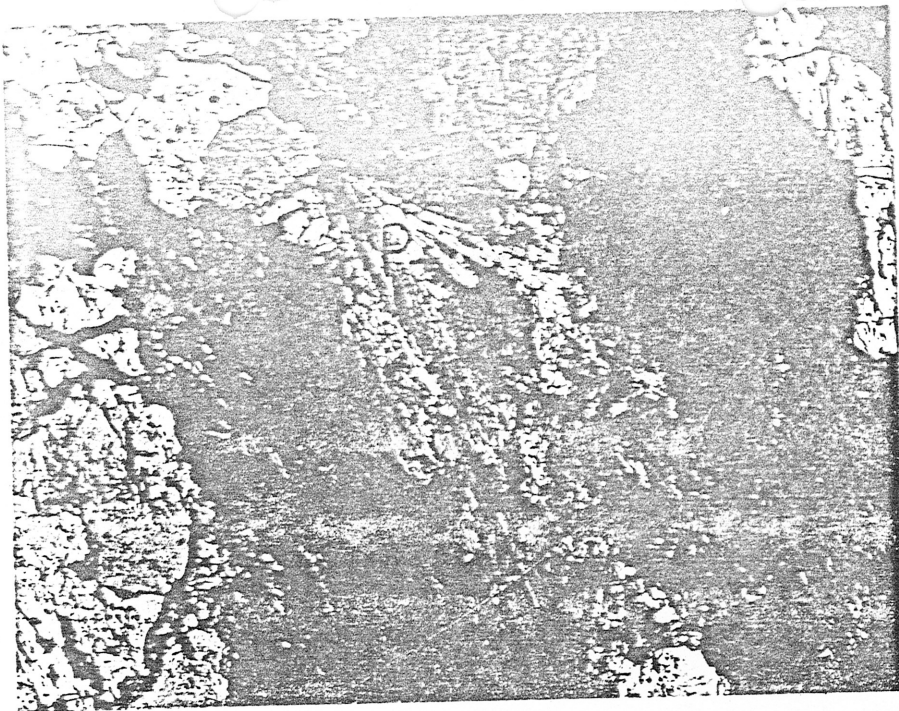


K<sub>y</sub> = KYANITE  
Q<sub>t3</sub> = QUARTZ

Figure 1

A) X-Niols, Ky-Qtz  
WK-1

B. SAME, PLANE LIGHT



0.5 mm

A



1.0 mm

B

P = Pyrophyllite

Figure 2.

A) X-Nicols, Pyrophyllite - Ky

B) X-Nicols, Pyrophyllite - Ky - Qtz

# *Strategic Resources Inc.*

315 STANFORD S.E., ALBUQUERQUE, NEW MEXICO 87106  
(505) 268-3534

March 23, 1982

Mr. Jan Bowman  
General Manager Eng. & Raw Materials  
Kaiser Refractories  
Division Kaiser Alum. & Chemical Corp.  
300 Lakeside Drive  
Oakland, California 94643

Dear Mr. Bowman:

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If you are seriously interested in looking into this matter, please contact me for further information.

Sincerely yours,

Charles E. Willmore,  
President



CLEMSON UNIVERSITY  
CLEMSON, SOUTH CAROLINA 29631

CERAMIC ENGINEERING  
OLIN HALL

TELEPHONE 656-3093  
AREA CODE 803

April 10, 1979

Mr. E. E. Pasco  
C-E Minerals  
P O Box 649  
Washington, GA 30673

ARIZONA KYANITE

Sample	$Al_2O_3$	$Fe_2O_3$	Expansion
1	56.9%	0.37%	10.4%
2	55.9	0.49	9.9
3	52.9	0.46	8.9
4	55.1	1.24	9.6
5	not received		
6	51.1	0.75	5.0

(Sample 3911 expanded 9.3% in same firing test)

(Sample 6 is high in andalusite)

3912	57.6%	1.75%
------	-------	-------

H H Wilson

C-E Minerals  
Combustion Engineering, Inc.  
Graves Mountain Plant  
Post Office Box 649  
Washington, Georgia 30673

Tel. 404/359-8141

Ellsworth Dist  
Yuma County



## MINERALS

April 24, 1979

add to file

Mr. Ted Willmore  
315 Stanford S.E.  
Albuquerque, New Mexico

Dear Ted:

The following information was derived from the samples taken from the kyanite occurrence on your sulfa claim group during my visit there in March.

<u>Sample</u>	<u>% Kyanite</u>	<u>Al<sub>2</sub>O<sub>3</sub></u>	<u>Fe<sub>2</sub>O<sub>3</sub></u>	<u>Expansion</u>
1	36%	56.9%	.37%	10.4%
2	23.6	55.9	.49	9.9
3	23.4	52.9	.46	8.9
4	25.4	55.1	1.24	9.6
5	( Not Analyzed)			
6	13.4	57.1	.75	5.0

The alumina, iron and expansion determinations were made on just the kyanite portions of the samples.

The column "% kyanite" also includes whatever sillimanite and andalusite might be present. Except for sample 6 which shows low expansion, these minerals are present in very minor amounts.

Overall the occurrence can only be given a rating of fair. Although the iron content is excellent, the alumina is low. For example, kyanite from either of the present domestic producers prepared in the same manner as these samples would analyze over 61% Al<sub>2</sub>O<sub>3</sub>.

The only possibility that we can see which would permit the development of your property is the appearance of a new market requiring a kyanite free from normally associated minerals. Your

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material appears to be remarkably pure in this regard. Should such a potential come to our attention we will contact you, however, failing this we will have no further interest in the deposit.

For your information we have enclosed small samples of the kyanite concentrate obtained from the sample locations.

I enjoyed meeting you and your associates. Thanks for the hospitality. Best of luck with your ventures and if you are again involved with a non-metallic which needs evaluation, please contact us.

Yours very truly,

A handwritten signature in dark ink, appearing to read 'E. E. Pasco', written in a cursive style.

E. E. Pasco  
Vice-President

EEP/lm

cc: K.A. Phillips



# 1

# 3

# 4

# 2

# 6