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Arizona Geological Survey
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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 Mining Collection

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PRINTED: 06/20/2002

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: RUDY GYPSUM

ALTERNATE NAMES:
T & R GYPSUM

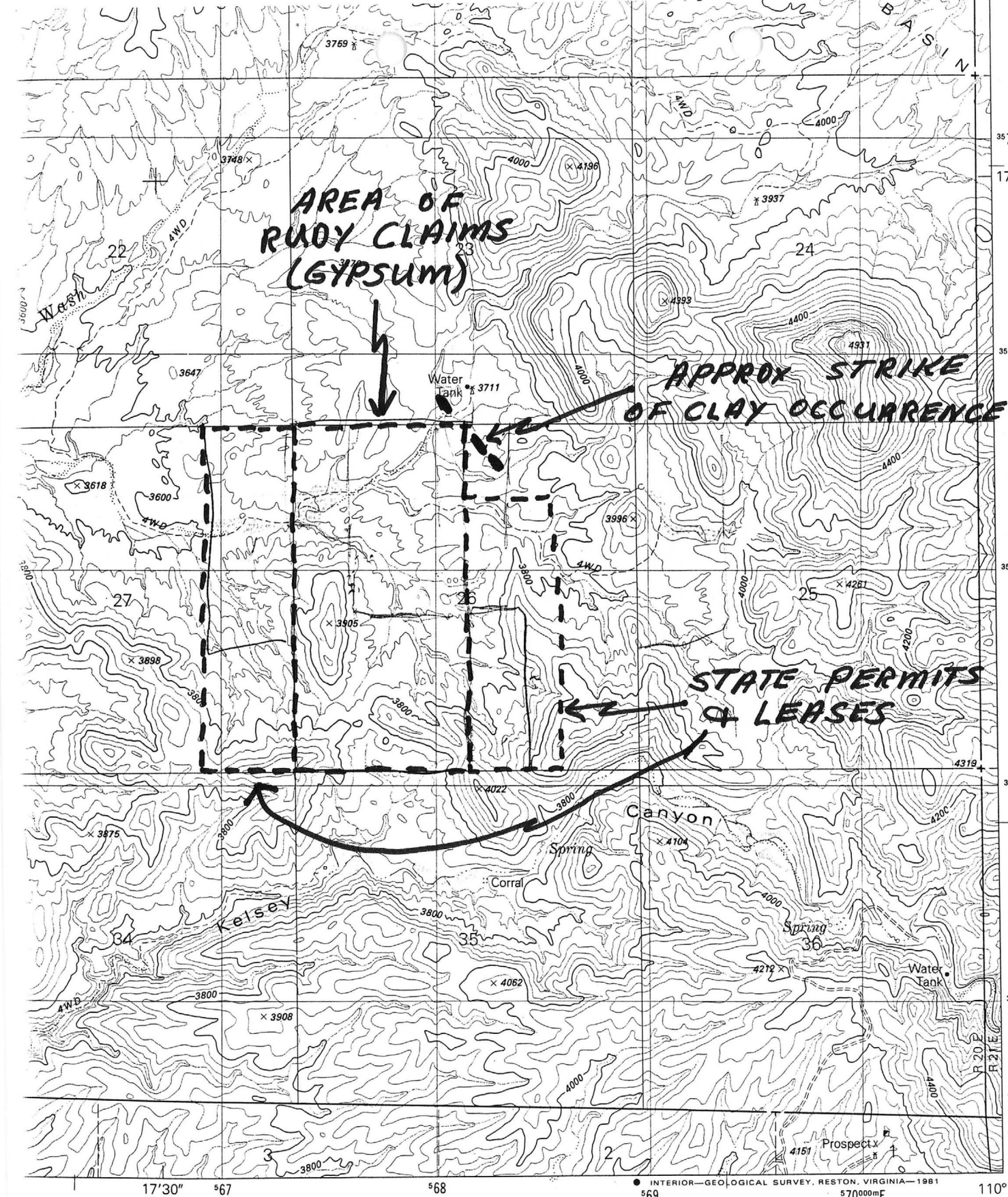
COCHISE COUNTY MILS NUMBER: 915

LOCATION: TOWNSHIP 13 S RANGE 20 E SECTION 26 QUARTER W2
LATITUDE: N 32DEG 16MIN 24SEC LONGITUDE: W 110DEG 16MIN 50SEC
TOPO MAP NAME: SOZA MESA - 7.5 MIN

CURRENT STATUS: EXP PROSPECT

COMMODITY:
GYPSUM ALABASTER
CLAY KAOLIN

BIBLIOGRAPHY:
ADMMR RUDY GYPSUM FILE



SEC. 26, T. 13 S, R 20 E.

RUDY GYPSUM

COCHISE COUNTY, AZ

1 MILE

EET

ROAD CLASSIFICATION

Primary highway, hard surface

Secondary highway, hard surface

Light-duty road, hard or improved surface

Unimproved road

Interstate Route U. S. Route State Route

ARIZONA

QUADRANGLE LOCATION

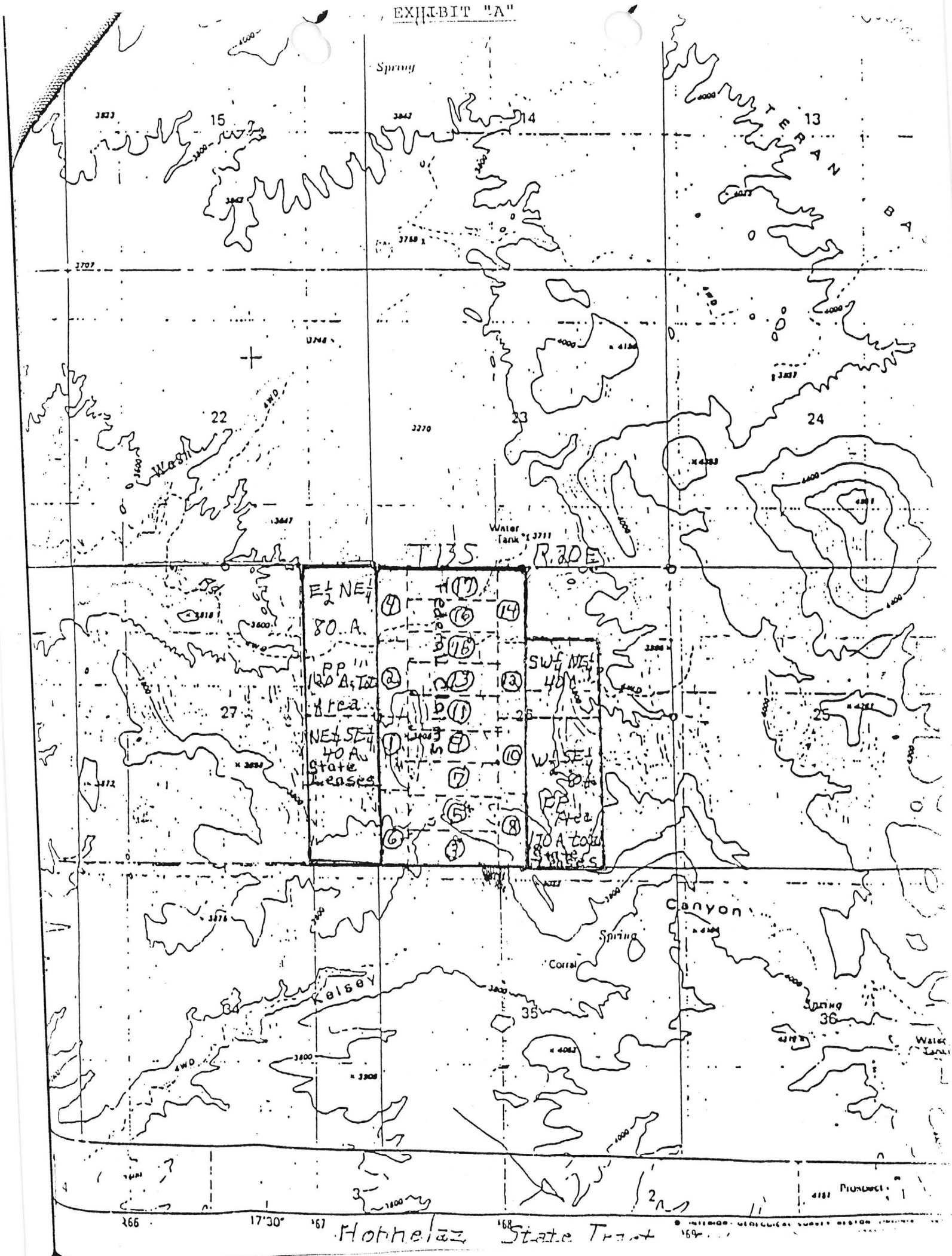
From

SOZA MESA, ARIZ.

SE/4 REDINGTON 15' QUADRANGLE

(DRAGOON 1:62 3948 II

EXHIBIT "A"


T13S R20E
E½ NE¼
80 A.
PP Area
120 A. total
NE¼ SE¼
40 Ac
State Leases
SW¼ NE¼
40 A.
W½ SE¼
80 A.
PP Area
120 A total
State Leases
Canyon
Spring
Corral
Kelsey
Water Tank
Wash
Hommelaz State Tract

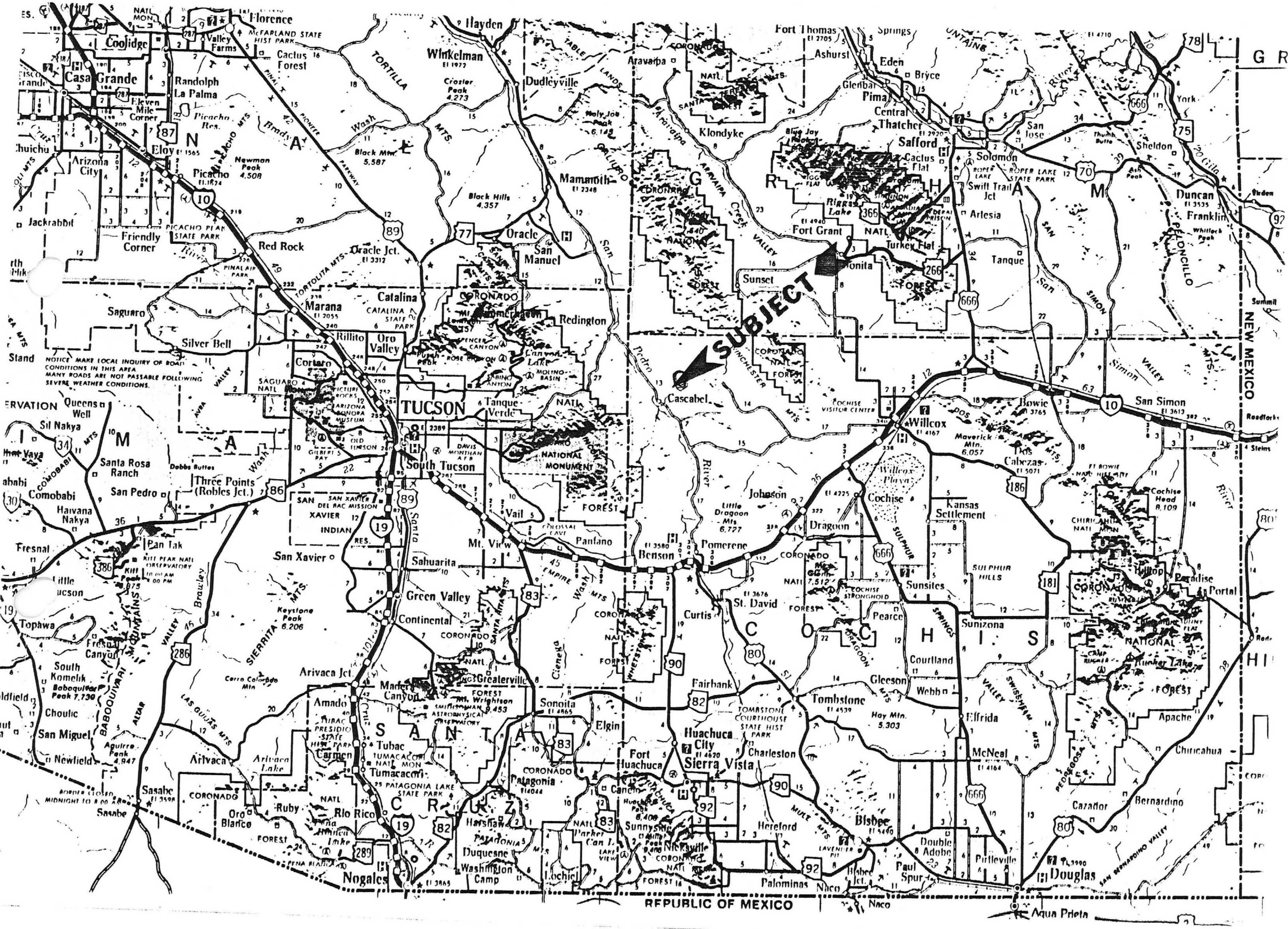
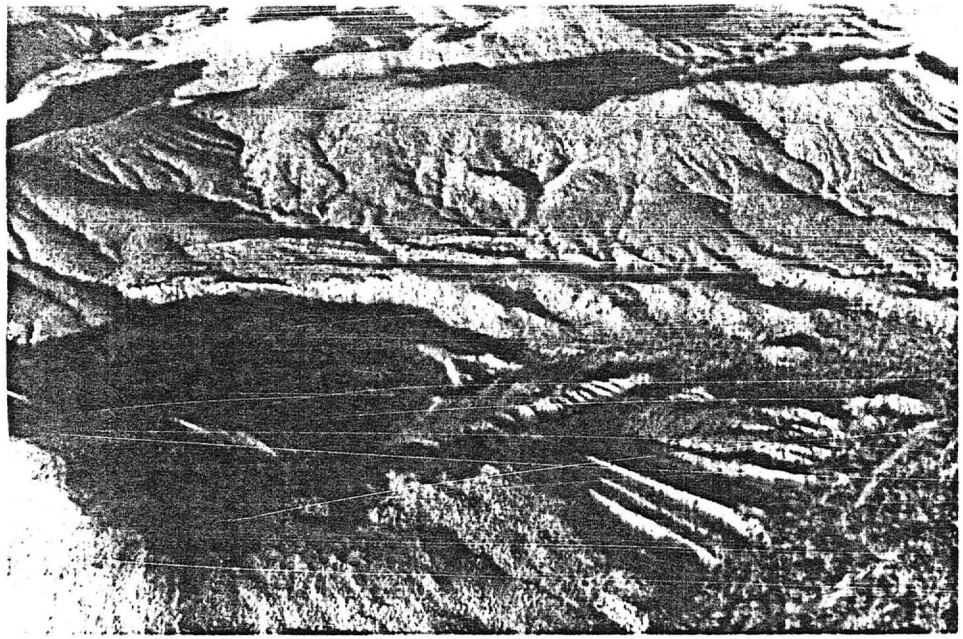
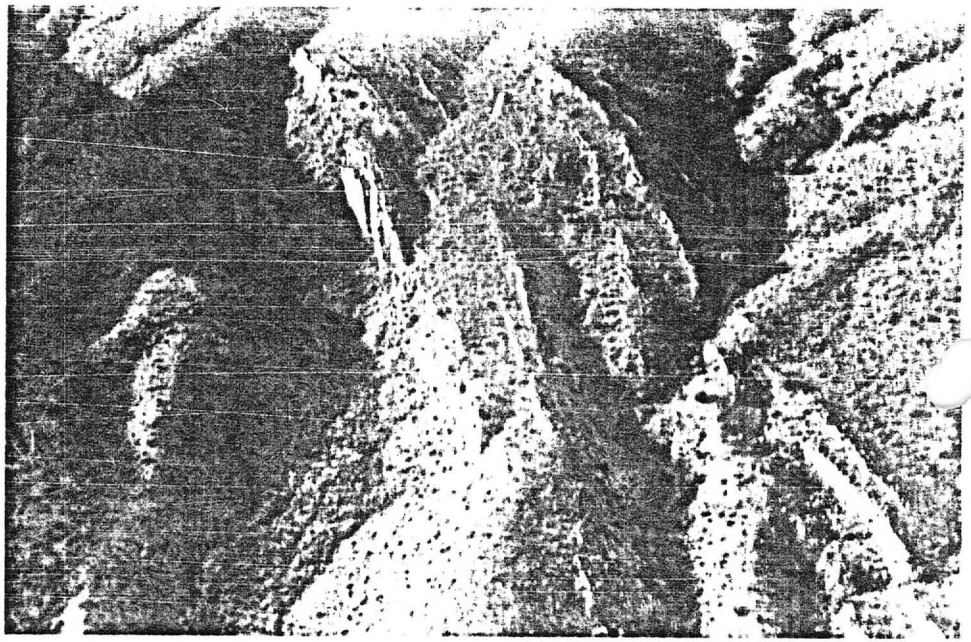
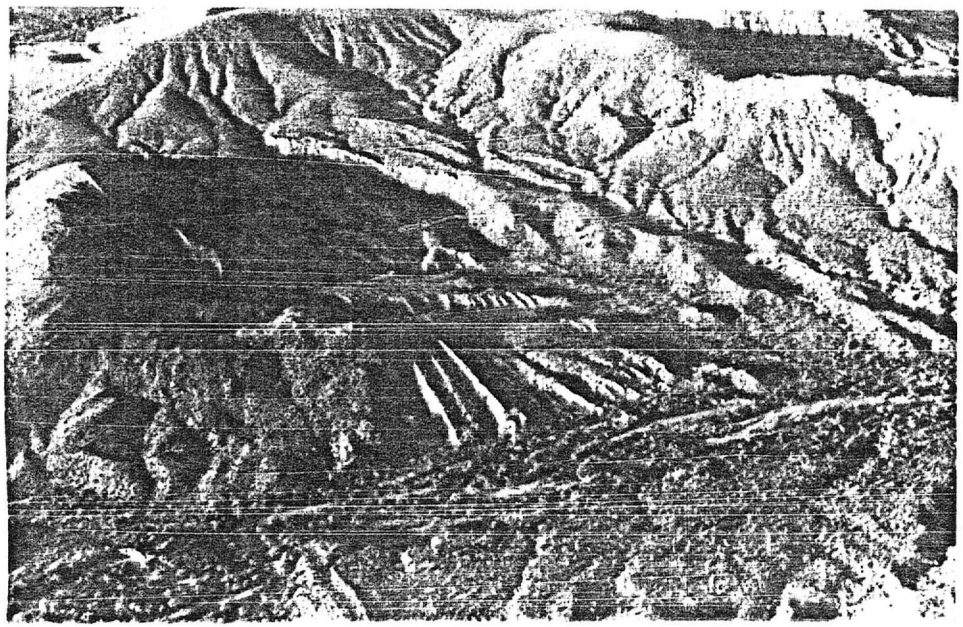

SUBJECT
TUCSON
South Tucson
Florence
Coolidge
Casa Grande
Randolph
La Palma
Eloy
Picacho
Arizona City
Jackrabbit
Friendly Corner
Red Rock
Marana
Rillito
Cortaro
Oro Valley
Catalina
Oracle Jct.
Oracle
San Manuel
Mammoth
Winkelman
Hayden
Dudleyville
Aravaipa
Klondyke
Fort Thomas
Ashurst
Eden
Bryce
Glenbar
Pima
Central
Thatcher
Safford
Solomon
San Jose
Sheldon
York
Duncan
Franklin
Artesia
Fort Grant
Bonita
Turkey Flat
Tanque
Sunset
Cascabel
Redington
Tanque Verde
Willcox
Bowie
San Simon
Dos Cabezas
Cochise
Dragoon
Johnson
Benson
Pomerene
St. David
Curtis
Vail
Mt. View
Pantano
Sahuarita
Green Valley
Continental
San Xavier
Three Points (Robles Jct.)
San Pedro
Santa Rosa Ranch
Comobabi
Sells
Pan Tak
Fresnal
Little Tucson
Topawa
South Komelik
Choulic
San Miguel
Newfield
Sasabe
Arivaca
Arivaca Jct.
Amado
Tubac
Carmen
Tumacacori
Rio Rico
Nogales
Ruby
Oro Blanco
Madera Canyon
Greaterville
Sonoita
Elgin
Patagonia
Harshaw
Duquesne
Washington Camp
Lochiel
Canelo
Fort Huachuca
Huachuca City
Sierra Vista
Fairbank
Tombstone
Charleston
Hereford
Palominas
Naco
Bisbee
Bisbee Jct.
Paul Spur
Douglas
Agua Prieta
Double Adobe
Pirtleville
McNeal
Elfrida
Gleeson
Webb
Courtland
Sunizona
Pearce
Sunsites
Kansas Settlement
Apache
Chiricahua
Cazador
Bernardino
Portal
Paradise
Hilltop
Rucker Lake
REPUBLIC OF MEXICO
NEW MEXICO
SANTA CRUZ
COCHISE
GRAHAM
PINAL
PIMA
CORONADO NATIONAL FOREST
SAGUARO NATIONAL MONUMENT
NOTICE: MAKE LOCAL INQUIRY OF ROAD CONDITIONS IN THIS AREA. MANY ROADS ARE NOT PASSABLE FOLLOWING SEVERE WEATHER CONDITIONS.

EXHIBIT "B"





Aerial Photos of T&R Site



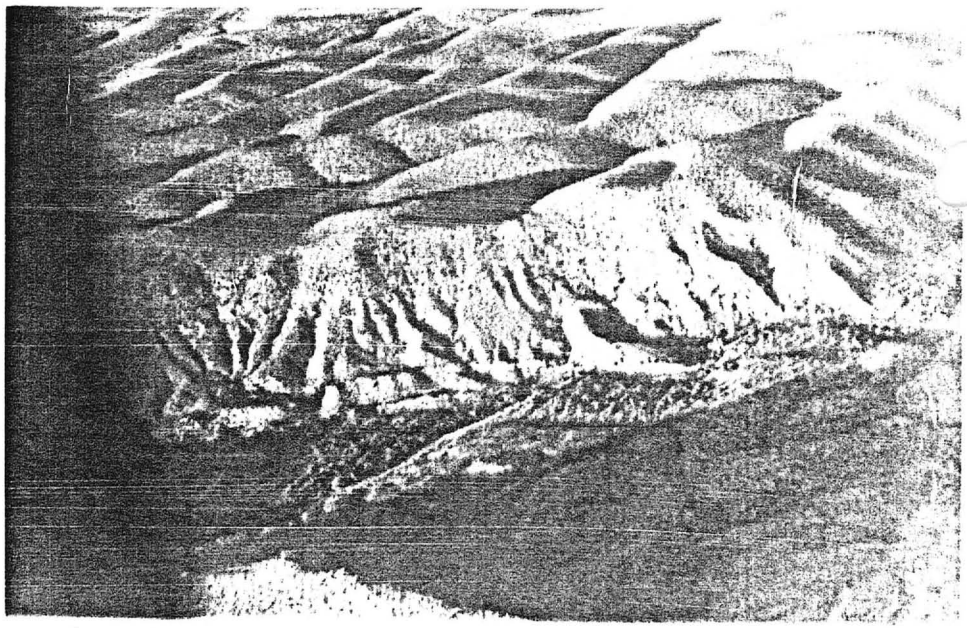
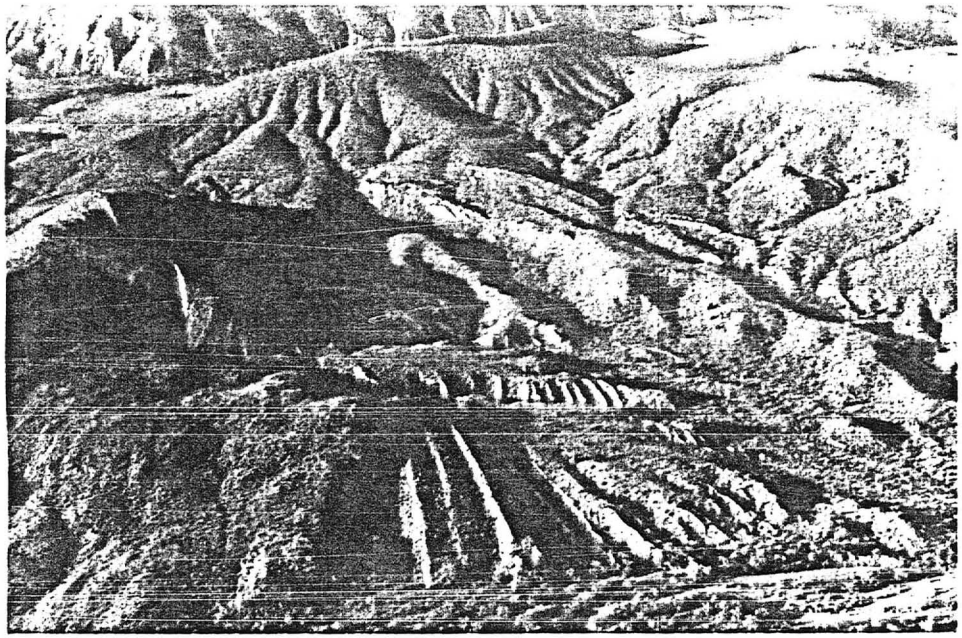
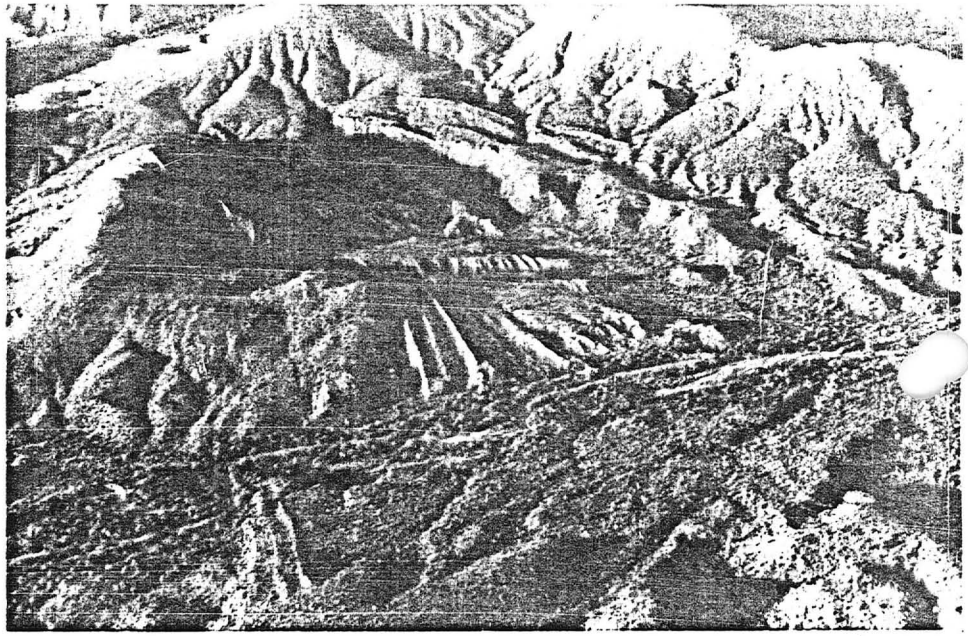
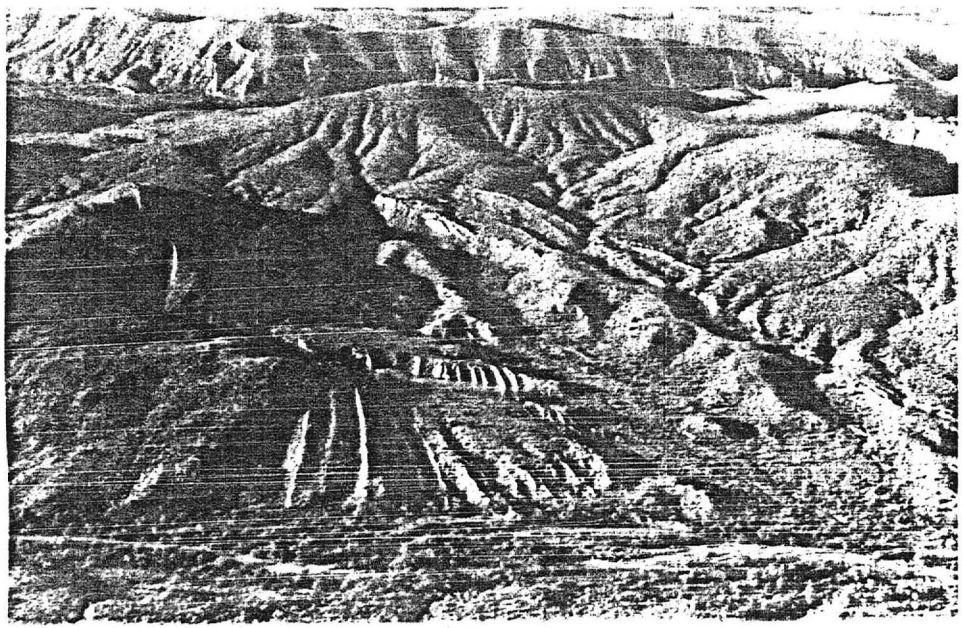


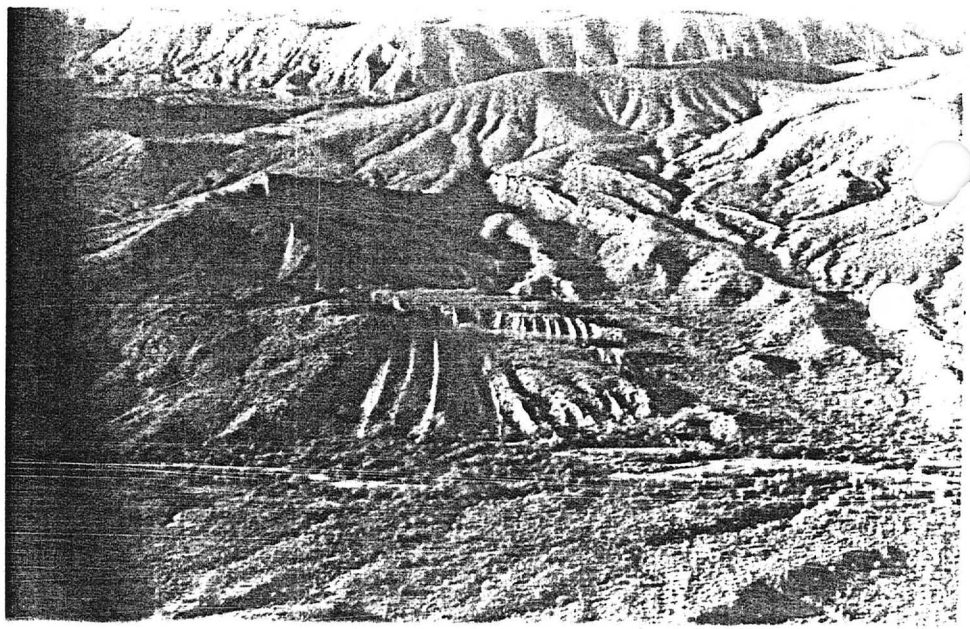
EXHIBIT "B"





Aerial Photos of T&R Site





VIS18.6

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES

VERBAL INFORMATION SUMMARY

1. Information from: **Steve Maher**
   Address: **1217 Eleventh Ave.**
   Safford, Arizona 85546
2. Phone: **428-0446**
3. Mine: **Rudy Gypsum**
   aka T & R Gypsum
4. ADMMR Mine File: **Rudy Gypsum**
5. County: **Cochise**
6. MILS Number: **To be assigned**
7. District: (mining) or (mineral)
8. Township: **T 13 S** Range: **R 20 W** Sec(s): **W½, Sec. 26 and E½, E½, Sec. 27**
9. USGS Topographic Map: **Soza Mesa 7.5'**
10. Location (descriptive):
11. Number of Claims - Patented **None**
    Unpatented **17 + State Prospecting Permits**
12. Owner(s): (if different from above)
13. Address:
    T & R Gypsum
    P.O. Box 1450
    Safford, Arizona 85548
    Phone 428-9439

14. Operating Company: **T & R Gypsum**
15. Pertinent People and/or Firm: **Steve Maher and Rudy Hornelaz**
16. Commodities: **Gypsum - Selenite and Gem - Alabaster**
17. Operational Status: **Explored deposit**
18. Summary of information received, comments, etc.:

Mr. Maher brought in a report and some sample results on his and Rudy Hornelaz' gypsum deposit south east of Reddington. They have evaluated the deposit for both agricultural gypsum and as a cement ingredient. They hope to be in production shipping to farmers in Cochise County and the Gila Valley near Safford by late November. Improving roads across State Trust Lands to the west for access from the Reddington Road is a major problem. A significant amount of gypsum is exposed and initial mining was reported to be simple.

Samples have been evaluated by Arizona Portland Cement at Rillito and are likely usable in the manufacture of cement. Alabaster of art carving grade was also reported.

Date: July 3, 1990 **Ken A. Phillips** KAP

T & R GYPSUM

Post Office Box 1450 / Safford, Arizona 85548

1. Introduction

The following summary describes the healthy state of the gypsum markets both in the U.S. and the world and is an introduction to an opportunity presented by T & R Gypsum, an Arizona general partnership ("T & R"). T & R is a gypsum mining entity which has recorded certain mining claims which, in our estimation, contain the finest gypsum deposits in the State of Arizona and perhaps in the southwestern United States. This summary is being presented to you to determine your interest in entering into negotiations to purchase T & R's rights to the above-mentioned mining claims. Please note that unless otherwise indicated, the statistical information set forth herein regarding gypsum matters was obtained from Gypsum, by Lawrence L. Davis, which is a chapter from the United States Department of the Interior Minerals Yearbook, 1985.

2. The demand for gypsum

The demand for gypsum continues to be among the strongest and the healthiest of all building minerals today, both nationally and internationally. The pent up demand in road, commercial and residential real estate construction has spurred an increased demand for the many products of which gypsum is the primary ingredient.

Specific statistics which reflect this strong demand include the following. In 1985, a record 19.5 billion square feet of gypsum wallboard was shipped in the U.S. Sales of gypsum products increased slightly from 1984 to 25 million short tons valued at $2.4 billion. The total value of gypsum exports was approximately $26 million. This strong demand should continue in the near future and increase over the mid and long term.

3. Sources of gypsum

Although the United States is the world's leading producer of gypsum, imports of the mineral have continued to increase during the past 5 years and currently account for more than 10 million tons of domestic gypsum consumption annually. In 1985, imports provided 33% of the crude gypsum consumed in the U.S. As in other industries, the ability to invest in mining and manufacturing facilities to produce gypsum presents an excellent opportunity in terms of domestic sales and in exporting gypsum products at an attractive rate of foreign exchange.

4. Costs and related factors

The value of mined crude gypsum is approximately $10 per ton. Calcined gypsum's value increases to around $25 per ton. Alabaster gypsum can be sold for over $35 per ton because of its purity.

The cost of both domestic and imported gypsum has climbed steadily over the past 5 years. This has been due to gypsum's limited availability coupled with a high demand. The continued domestic and worldwide expansion in population and economic growth appears to be continuing and therefore, the need for gypsum products will continue to increase.

The cost of crude gypsum will increase at an even faster rate than that currently experienced if the international value of the U.S. dollar does not rebound, the demand for the mineral increases or if the rate of inflation increases. The probability of the occurence of at least one, if not all, of these economic conditions must be considered to be more likely than not.

Assuming that the price of crude gypsum will continue to increase markedly, the ownership and control of a significant reserve of very high quality gypsum would assure its owner of a consistent and controllable product cost and quality in an enviroment which will probably include consistently increasing prices for gypsum products. The result of such a scenario would be a predictably increasing profit margin. The opportunity to control cost of product is one that must be seriously considered in the context of today's economic conditions.

5. Uses and production (1985 Statistics)

Most gypsum (approximately 75%) is calcined, which greatly increases its value. Of the uncalcined gypsum, 76% was used for portland cement and 21% for agricultural products. Of the total calcined gypsum, 96% was used for prefabricated products and 4% for industrial and building plasters. Breaking down the prefabricated products, based upon surface square feet, 67% was regular wallboard; 22% was fire resistant type X wallboard; 3% was 5/16-inch mobile home board; 5% was lath, veneer base, sheathing and predecorated wallboard; and 3% was miscellaneous board including water and /or moisture-resistant board. From this statistical analysis it appears that gypsum is most valuable in regions demonstrating growth and therefore have a greater need for real estate construction materials.

6. Gypsum production in Arizona compared to other regions

Of particular noteworthiness is the lack of gypsum production in the State of Arizona. Arizona is one of the fastest growing states in the U.S. and a number of census projections indicate that its population growth will continue for at least the next forty years. In fact, some projections indicate that the greater metropolitain population of Tucson alone will surpass 2 million by 2025. Yet, most of the gypsum products used in Arizona must be shipped in from other states.

Specifically, the leading gypsum producing states in 1985 were, in descending order, Texas, Michigan, Iowa, Oklahoma, California and Nevada. Each of these six states produced more than 1 million tons and together accounted for more than 65% of total domestic production. There is certainly a vacuum of local production in Arizona where, in 1984, only four active mines were in production. The total production of those mines was 261,000 short tons.

During the years 1985 - 1987, a number of gypsum mines and production facilities were opened in various regions of the U.S. A plant in New Jersey was scheduled to open in 1986 for the production wallboard manufacturing using imported crude gypsum, according to information set forth in Rock Products, V. 89, No. 1, Jan. 1986, p. 36. This plant was expected to manufacture 250,000 tons of crude gypsum per year.

7. T & R's mining claims

T & R is prepared to commence negotiations to sell and assign its rights to mine the various tracts subject to its mining claims (the "Site") immediately. The price and terms shall be determined by such negotiations. However, the initial offering price will be $4.5 million. Negotiations with several major gypsum companies have recently been commenced at such offering price. In order to fully realize the potential of the Site, please consider the following facts.

The Site consists of approximately 600 acres of desert-mountain land which is extremely rich in gypsum (a portion of which is alabaster gypsum). T & R expects the Site to yield over 20 millions of tons of gypsum. It is of significant importance to note that more than 1 million tons of the gypsum located on the Site lies loosely above ground and therefore can be collected without digging. A map of the Site is attached to this brochure as Exhibit "A".

One of the outstanding features of the Site which sets it apart from other gypsum reserves includes its significant reserve of alabaster gypsum (which is extremely rich in quality and purity), and the relative ease with which all of the gypsum can be mined. The gypsum located on the Site is extremely pure and needs almost no separation from other unwanted minerals and clays. This attribute will greatly reduce the cost of calcining the gypsum and/or preparing it for other uses. T & R has retained an aerial photographer to photograph the Site. These photographs, one of which is included with this brochure in Exhibit "B", will enable you to see and appreciate the richness of the gypsum deposits and to note that the terrain of the Site would be relatively easy to mine.

8. Independent analysis

In order to verify the significantly high purity of the gypsum, T & R recently retained the assay firm of Rochay Assay Office, Inc. ("RAO") to analyze and test a sampling of the minerals located upon the Site. RAO is among the most respected assay companies in the southwestern U.S. and has been retained for similar testing by most of the leading mining companies in Arizona. RAO is not connected to T & R in any manner whatsoever.

The samples, which were independently collected and tested by RAO's manager, Mr. Carlos Rochin, proved to consist of 99.3% pure useable gypsum. The quality and purity of the gypsum was so high that Mr. Rochin commented that the gypsum contained on the Site was the most remarkable he had ever tested in terms of quality and purity. A copy of Mr. Rochin's assay report is set forth in Exhibit "C".

The mining claims are located on both federal and state lands. The portion upon the federal (non-forest) lands are subject to the Mining Act of 1872 (the "Act"), which is the most liberal of the various federal mining acts. The primary advantage of being subject to the Act is the absence of reclamation requirements. Reclamation rules require that an entity mining a site must restore the condition of the site following completion of the mining, which adds considerable cost to the mining function.

In addition, the State of Arizona does not impose any reclamation requirements on its land, since mining is such an important component of its economy. Therefore, as long as the gypsum is removed from the Site in a manner which causes no more injury to the land than is reasonably neccessary, there should not be any clean up concerns.

The Site is strategically located near Tucson, Arizona, which is an air distance of less than 30 miles. With the development of new roads over the next few years, this will result in a travel time of only 20 minutes by truck. The location offers access to a wide range of transportation options. Furthermore, even without the new roads, the Site is only 38 miles away from a major rail site. From that point, the gypsum could be hauled to its final destination.

There are a few other favorable factors which are worth noting as follows:

1. The Site is a mere 4.5 miles from an existing county road, thereby facilitating the movement of the gypsum to its final destination.

2. Access to electricity is available at a location just over 4 miles from the Site.

3. Water is available from a major river located a mere 4.4 miles from the Site.

4. A network of roads connecting to Site to the county roads are in place.

5. At a rate of 200,000 tons per year, there is a 5 year supply of gypsum available above ground thereby greatly reducing the cost of mining during that initial time period.

These additional factors are important because the the availability of easy access to transportation, electricity and water, in addition to the quantity of gypsum above ground, will serve to reduce the costs of operation. Finally, the desert-mountain terrain enables mining by using a scraping method. This method is less expensive, cleaner and safer than most other methods of mining.

9. T & R's proposal

T & R intends to sell its entire interest in the claims upon the Site. The initial offering price will be $4.5 million. The terms include a down payment of $1.5 million, the remainder payable in sixty equal monthly installments of principal and interest (at an annual rate of 10%), commencing one month following the closing date of the transaction.

10. Disclosure

Please note that this brochure is not a Registered nor a non-Registered offering. This brochure has been prepared as an introduction to an opportunity made available by T & R. Any information contained in this brochure regarding the Site should be researched by a prospective purchaser as T & R shall only warrant and represent their good title to the mining claims. This brochure is intended to invite an offer to purchase, but is not an offer to sell. T & R may withdraw this opportunity at any time.

EXHIBIT "C"

CARLOS ROCHIN
MANAGER
REGISTERED ASSAYER
ARIZONA REG. No. 7126

HECTOR C. ROCHIN
FOUNDER
ARIZONA REG. No. 4073

FRANCISCO GONZALEZ, ASSOCIATE

HECTOR A. ROCHIN
MINING ENGINEER AND
LAND SURVEYOR
ARIZONA REG. No. 2473

Pd 399 1-25-86

Rochin Assay Office, Inc.

Rt 1, Box 214-H

XXXXXXXX - PHONE (AC 602) 364-8092

DOUGLAS, ARIZONA - 85607

ASSAYERS & METALLURGICAL CHEMISTS

CERTIFICATE OF ASSAY

Name Ed Sherman 125 W. 20th Street, Safford, Arizona 85546

	GOLD (OZ)	SILVER (OZ)	COPPER (%)	LEAD (%)	ZINC (%)	Gypsum %			
52318						96.5			

REGISTERED ASSAYER CERTIFICATE NO. 7126 CARLOS ROCHIN ELECTRONICALLY SIGNED ARIZONA U.S.A.

REMARKS:	DATE: July 23, 1986	CHARGES $ 12.50

CARLOS ROCHIN
MANAGER
REGISTERED ASSAYER
ARIZONA REG. No. 7126
ROUTE 1 Box 214 H

HECTOR C. ROCHIN
FOUNDER
ARIZONA REG. No. 4073
FRANCISCO GONZALEZ, ASSOCIATE

HECTOR A. ROCHIN
MINING ENGINEER AND
LAND SURVEYOR
ARIZONA REG. No. 2473

Rochin Assay Office, Inc.

P. O. DR. 3507 – PHONE (AC 602) 364-8092
DOUGLAS, ARIZONA - 85607

ASSAYERS & METALLURGICAL CHEMISTS

CERTIFICATE OF ASSAY

Name T & R Gypsum Box 1450, Safford, Arizona 85548

	GOLD (OZ)	SILVER (OZ)	COPPER (%)	LEAD (%)	ZINC (%)	Gypsum %			
53704						99.3			

I futher certify that I, Carlos Rochin, picked up the sample personally from which these results are given (Gypsum) on the area known to me as Township 13 Range 20 E Section 26-27 Cochise County.

REGISTERED ASSAYER CERTIFICATE NO. 7126 CARLOS ROCHIN SIGNED ARIZONA U.S.A.

REMARKS:

DATE: December 16, 1987

CHARGES $

SKYLINE LABS, INC.
1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703
(602) 622-4836

4/28 9139

REPORT OF ANALYSIS

JOB NO. UXX 097
June 20, 1990
LAB NO 15130 1,2,3,RED CLAY

TURNER LABORATORIES
Attn: Mr. T. Graf
1881 W. Prince Rd.
Tucson, AZ 85705

Preliminary Analysis of 4 Samples

ITEM	SAMPLE NO.	CaO (%)	CO2 (%)	SO3 (%)	K2O (%)
1	#1 (9 on other)	31.1	1.3	44.3	<.01
2	#2 (5 on other sheet)	29.3	1.5	39.0	.18
3	#3 (T+R)	29.9	1.5	42.8	.13

ITEM	SAMPLE NUMBER	Na2O (%)	MgO (%)	Fe (%)	Al (%)
1	#1	.12	.22		
2	#2	.26	.44		
3	#3	.23	.31		
4	RED CLAY			3.4	7.

9122 Gr
87.52
9232

*NOTE: Cl results are pending.

William L. Lehmbeck
Manager 6/20/90

Charles E. Thompson
Arizona Registered Assayer No. 9427

William L. Lehmbeck
Arizona Registered Assayer No. 9425

James A. Martin
Arizona Registered Assayer No. 11122

#1 KAOLIN FROM BOTTOM OF WASH

#2 KINDER GYPUM CHUNKS FROM ELFRIDA FARM

#3 RED CLAY FROM WEST BANK OF WASH

#4 " " " " " OTH END OF

#5 GYPSUM SAMPLE FROM UNDER LEDGE EAST 100' FROM WHERE DYAMITE CAPS WERE

#6 GYPSUM SAMPLE RICK GOT ON EDGE OF WASH ON STATE WEST CLAIM WHERE DOZIER HAD CLEARED

#7 GYPSUM SAMPLE FROM BOTTOM OF WAS CUT THRU FED CLAIM NORTH OF ¼ CENTE LINE POST

#8 GYPSUM SAMPLE STEVE + JOE GOT ON LEDGE 100' SOUTH IN WASH STATE SECTION SAME LEDGE AS #6 BASICALLY, BUT DIRT

#9 GYPSUM SAMPLE FROM SECOND DIG IN BOTTOM OF WASH CUT THRU FED CLAI DIG ABOUT 100' WEST OF #7

#10 GYPSUM SAMPLE FROM BAG OF LAWN + GARDEN GYPSUM

#11 GYPSUM FROM KINDER FARM willcox PILE ON EAST END

Special Gypsum Samples
April 19-90

J. Boyett

Attn: Steve Mather
1217 11th Ave
Safford, Az 85546
Phone 428-0446

Work Required:
Wet____ Basis: Loss Free____
XRF____ As Received____
Chemical ____

A#____
Date Sampled____
Sample required____Pounds
Sample collected ___Pounds by____

SP Test #____ Submitte
Time____ by____

ANALYSIS	#2	#5	#7	#8	#9	#10	#1
SiO_2							
Al_2O_3							
Fe_2O_3							
CaO							
MgO							
Na_2O							
K_2O							
~~SO3~~ % Purity	59.9	87.8	95.5	89.3	98.3	77.8	78.
C_3S							
C_2S							
C_3A							
C_4AF							
S/R							
S/A							
LOSS							
INSOL.	* 10.96	3.84	1.92	* 7.76	2.40	* 14.76	6.4c
$CaCO_3$							
$MgCO_3$							
BLAINE							
TOTAL							

REMARKS * not acceptable

DATE: 4/19/90 ANALYSIS BY: K. Robbins
D. Krieg

Special Gypsum Samples From 3/6/90

Steve Mather
1217 11th Ave
Safford, Az 85546
Phone 428-0446

Work Required:
Wet ✓ Basis: Loss Free ____
XRF ✓ As Received ____
Chemical ____

A# ____
Date Sampled ____
Sample required ____ Pounds
Sample collected ____ Pounds

SP Test # ____ Submitt
Time ____ by ____
by ____

ANALYSIS	T&R Gyp		Large Chunk Gyp Rock				
SiO_2							
Al_2O_3							
Fe_2O_3							
CaO							
MgO							
Na_2O							
K_2O							
~~SO_3~~ % Purity	89.8		86.1				
C_3S							
C_2S							
C_3A							
C_4AF							
S/R							
S/A							
LOSS							
INSOL. (WET)	5.92		3.08				
$CaCO_3$							
$MgCO_3$							
BLAINE							
TOTAL							

your next contact would be Tom Lynard in our Colton office
714 825 4260
EXT 368
J & B

REMARKS This can be used in the Portland cement process J&B

DATE: 3/6/90 ANALYSIS BY: K. Robbins

GYPSUM CHEMICAL ANALYSES

SAMPLE #1

CaO	31.10
CO2	1.30
SO3	44.30
K2O	0.01
Na2O	0.12
MgO	0.22
Total	77.05

	Elemental Weight	Molecular Equivalent	Theoretical calculations CaSO4	Na2CO3	MgCO3
Ca^{+2}	22.2	0.555	95.6		
K^{+}	0.0	0.000			
Na^{+}	0.0	0.002		0.01	
Mg^{+2}	0.1	0.005			0.02
	Tot eq wt	0.563			
$CO3^{-2}$	1.8	0.030		0.05	0.04
$SO4^{-2}$	53.2	0.554	95.3		
	Tot eq wt	0.583			

SAMPLE #2

CaO	29.30
CO2	1.50
SO3	39.00
K2O	0.18
Na2O	0.26
MgO	0.44
Total	70.68

	Elemental Weight	Molecular Equivalent	Theoretical calculations CaSO4	Na2CO3	MgCO3
Ca	20.9	0.523	90.1		
K	0.1	0.002			
Na	0.1	0.004		0.02	
Mg	0.3	0.011			0.04
	Tot eq wt	0.540			
CO3	2.0	0.034		0.06	0.05
SO4	46.8	0.487	83.9		
	Tot eq wt	0.522			

CaO	29.90
CO2	1.50
SO3	42.80
K2O	0.13
Na2O	0.23
MgO	0.31
Total	74.87

SAMPLE #3

	Elemental Weight	Molecular Equivalent	Theoretical calculations CaSO4	Na2CO3	MgCO3
Ca	21.4	0.534	91.9		
K	0.1	0.001			
Na	0.1	0.004		0.02	
Mg	0.2	0.008			0.03
	Tot eq wt	0.547			
CO3	2.0	0.034		0.06	0.05
SO4	51.4	0.535	92.1		
	Tot eq wt	0.569			