



CONTACT INFORMATION

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Arizona Department of Mines and Mineral Resources Mining Collection

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02/04/88

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES FILE DATA

PRIMARY NAME: KALE GROUP

ALTERNATE NAMES:

YAVAPAI COUNTY MILS NUMBER: 822B

LOCATION: TOWNSHIP 10 N RANGE 1 W SECTION 26 QUARTER E2
LATITUDE: N 34DEG 10MIN 20SEC LONGITUDE: W 112DEG 19MIN 30SEC
TOPO MAP NAME: CROWN KING - 7.5 MIN

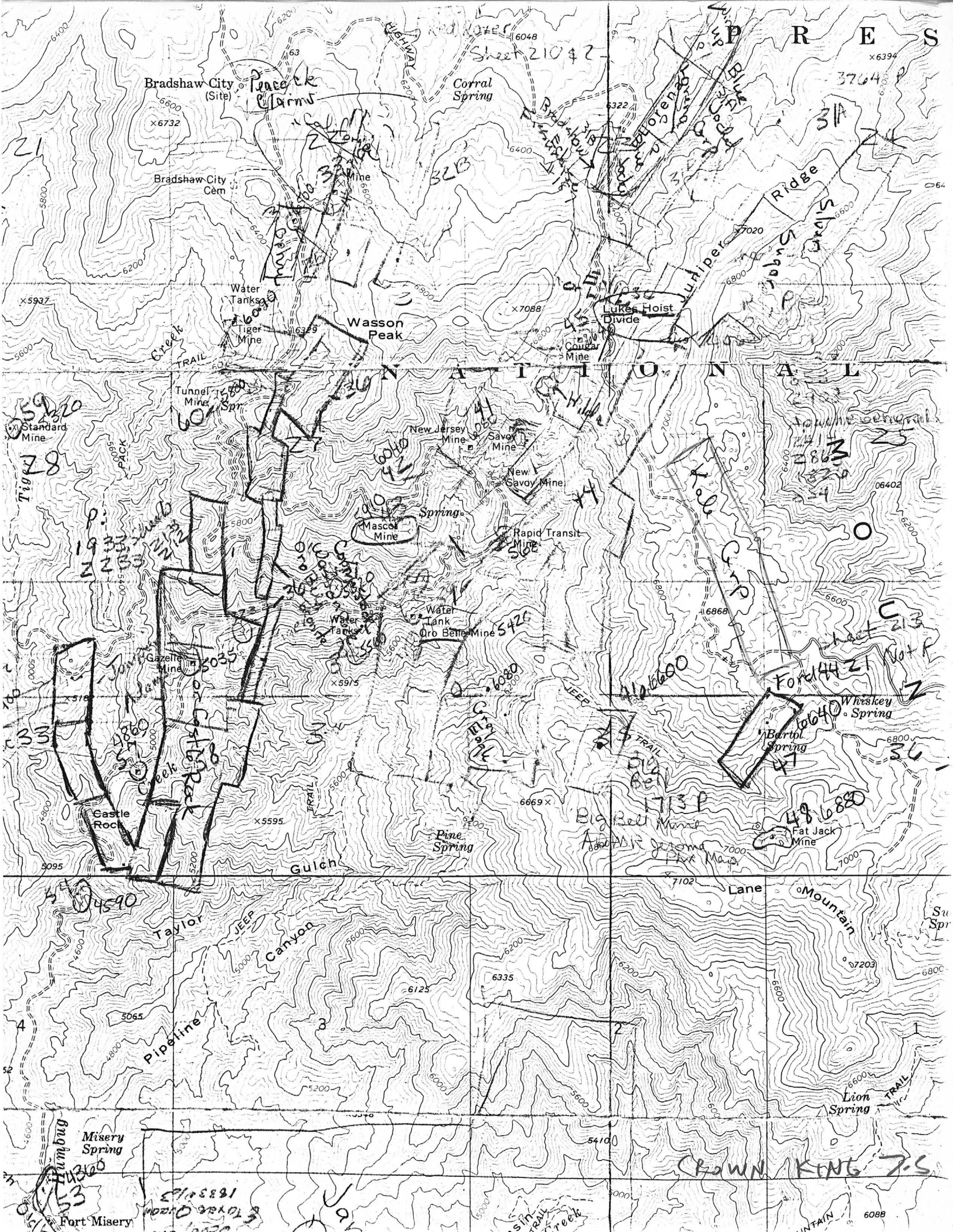
CURRENT STATUS: EXP PROSPECT

COMMODITY:

MICA
GOLD

BIBLIOGRAPHY:

ADMMR KALE GROUP FILE



Bradshaw City (Site)
x6732

Corral Spring

Bradshaw City Cem

Water Tanks

Wason Peak

Lukes Hoist Divide

Tunnel Mine

New Jersey Mine

Savoy Mine

New Savoy Mine

Masco Mine

Rapid Transit Mine

Water Tank

Orb Bats Mine

Gazelle Mine

Castle Rock

Pine Spring

Whiskey Spring

Bartol Spring

Fat Jack Mine

Taylor Canyon

Jeep Canyon

Lane

Mountain

Misery Spring

Fort Misery

Lion Spring

CROWN KING 7.5

Sheet 21042

Standard Mine

Tiger

Castle Rock

Pipeline

Jeep Canyon

Mountain

KALE GRP (A)

TONNAGE and GRADE ESTIMATE

of

CERTAIN MICA PROPERTIES

in

CLEATOR / CROWN KING AREA
YAVAPAI COUNTY, ARIZONA

by

R. E. Mieritz
Mining Consultant
Phoenix, Arizona

December 15, 1956

Richard H. Hieritz

MINING CONSULTANT

December 15, 1956

Dr. C. A. Farris
Mr. W. L. Clarey
1832 E. Abram Street
Arlington, Texas

Dear Sirs:

On December 11, accompanied by Mr. Clarey, I personally visited three mica prospects in the Cleator-Crown King area, Yavapai County, Arizona. Purpose of the examination was to obtain information on which to base and provide you with a reasonable tonnage and grade estimate for each property.

The properties covered during the very brief examination are; Mossberger(7 Claims), Black Magic(5 Claims), and the Kale Hilltop(7 Claims) all in the Bradshaw Mining District. A well maintained county road between Cordes, Cleator and Crown King passes through each property and services each by connecting with paved State Highway 69 at Cordes Junction.

Conditions Effecting Reserve Calculations:

Similar geologic conditions exist on each property, namely strong pegmatic structures intruding the granites, quartz monzonite and schists. The pegmatic structures are mineralogically composed of feldspars, probably orthoclase, quartz stringers and phenocrysts and mica (muscovite-usually white or light colored) in varying degrees of content. These pegmatic structures are strong and quite persistent as to width regularity, cross country traverse and possibly depthwise. Moreover, the mineralogical contents appear to remain somewhat constant, (feldspars 60%, quartz, 10-30 % and mica 10-30%). This criteria is definitely advantageous to reserve estimates, mineability and mill feed operation.

Even though the above criteria are basically factual and important in any reserve estimate, it must be borne in mind that my estimates are concluded primarily from limited "spot" observations and distant observation from prominent vantage points. No structure was personally traced and paced more than 200 feet or so. You can therefore realize and appreciate the conditions under which the estimates are being made.

Mr. Clarey states that most structures have been previously traced out for as much as 3000 to 4500 feet on each property. You will note that figures used in my calculations are only a fraction of these figures. Time did not permit actual observation or inspection to such lengths, consequently I am not justified in assuming continuity of mica content beyond the lengths used in my calculations.

The mica content for each property has been predicated on the results of but one sample taken at each property. Location of each sample was chosen with care so as to obtain the most representative sample possible, not in a lean area nor in a concentrated area. It is my opinion that the samples taken cannot be projected beyond the limits used in my calculations.

MOSSBERGER PROPERTY

A six foot chip sample was taken normal to the strike of a strong pegmatic structure near the dry wash bottom as a means to approximate an average mica content to be applied to my tonnage calculations. This sample is identified as number 1.

The mica on this property is varied colored from clear to light green, however, a single lamination of the colored mica is very transparent and colorless. Mica content of the structures is controlled by its disseminations and block concentrations, thus reducing to a minimum the "barren" or "lean" zones and providing for economical mine operation and good mill production.

Three separate structures were observed on this property. Their on the ground position more or less forms an A, although I am not certain of their actual junctions with each other. None-the-less, I have ascribed a 600 foot length to each structure, a 50 foot surface relief height, a 150 foot depth below lowest exposure and an average 10 foot width.

Structure 1-	600'x200'x10'	=	1,200,000	cuft.
Structure 2-	600'x200'x10'	=	1,200,000	"
Structure 3-	600'x200'x10'	=	1,200,000	"
			<u>3,600,000</u>	"
12cuft tonnage factor		=	300,000	Tons
25% Barren material		=	<u>75,000</u>	Tons
Reserve- 20-25% Mica		=	225,000	Tons
Primarily "scrap" production.				

BLACK MAGIC PROPERTY

This property has been worked by previous owners or lessors since there still remains two crushers, two vibrating screens and miscellaneous items.

Besides the main structure which has an observed length of plus 1000 feet, several bluff side exposures were noted, however, none of the latter structures were inspected.

The strong structure on which some quarrying had been done is approximately 30 feet wide at this point and contains pearly and light green to brown mica as disseminations, took concentrations and as veinlets paralleling the nearly vertical foot and hanging walls. Probably some "punch" mica may be available.

A 12 foot chip sample was taken across the face of the exposure and normal to the apparent strike of the structure. This sample was designated as number 2.

The following tonnage calculation is ascribed to the property. Only the main structure has been considered. A 600 foot length, a 75 foot surface relief above creek floor, a 175 foot depth below creek floor and an average 15 foot width.

Structure 1- 600'x250'x15'	=	2,250,000 cuft.
12 cuft. Tonnage factor	=	187,500 Tons
25% Barren material	=	- 46,875 "
Reserve- 20-30% Mica	=	141,000 Tons
Predominately scrap, some "punch".		

KALZ HILLTOP PROPERTY

There are many pegmatic structures on this property which have been freshly exposed by the road cut and a pit. The material observed indicates the mica content has been materially reduced as compared to the previous discussed properties to the north. This reduction indicates a closer proximity to the original magma rock; quartz monzonite. Moreover, the mica appears to have lost its continuity behavior which tends to promote sporadic mineralization, thus more barren material.

Sample number 3 was taken in a surface pit over a 5 foot width normal to the strike of the structure. I do not believe this sample would be representative of the overall material, the latter being somewhat lower in mica content.

-4-

No structure appeared to be particularly strong in direction, width or mica content, consequently I hesitate to provide a tonnage estimate for any individual structure. I would however, ascribe 175,000 tons of a 10-20 % mica content after a reduction of an equivalent tonnage for "barren" material.

SAMPLING and ASSAY RESULTS

The following three samples were taken by the writer, placed in trust with Mr. Clarey and assayed for mica content by Martin and Carlisle Chemical Laboratory, Inc., of Albuquerque, New Mexico.

Although extreme care and caution were exercised during the sampling, the writer feels he may have unavoidably "salted" the samples to some degree because of the varying mineral hardness of feldspar, quartz and mica, the tendency being to get more of the softer material and less of the harder. However, a trend is indicated by the samples, at least for numbers 1 and 2. Visual examination of the pit from which sample 3 had been obtained did not indicate a mica content such as is represented by the assay. For this reason I have not projected the mica content of the Kale-Hilltop to more than the 20% limit.

<u>Sample No.</u>	<u>Property</u>	<u>Sample Length</u>	<u>Mica Content</u>
1	Mossberger	6 ft.	20.6%
2	Black Magic	12 ft.	37.2%
3	Kale-Hilltop	5 ft.	34.3%

RECAPITULATION

The following schedule indicates what tonnage could be available for early mining of the two properties which are thought to be more promising.

<u>Property</u>	<u>Reserve</u>	<u>% Mica</u>
Mossberger	225,000 tons	20-25 %
Black Magic	141,000 tons	20-30 %
Total	366,000 tons	20 % plus
Concentrate Ratio, assume 5.5 to 1	66,600 tons	
90% Mill Recovery	60,000 tons	100 %

CONCLUSIONS

The writer concludes the following:

- (1) - that some 365,000 tons of 20% mica "ore" material is available for a mining and milling operation from the Mossberger and Black Magic properties,
- (2) - that each property individually can provide sufficient mica "ore" material to meet a minimum requirement of 100,000 tons,
- (3) - that the estimates are conservative, leaving ample margin for increasing same by closer and more detailed examination, sampling etc,
- (4) - that the Mossberger property will primarily produce "scrap" mica whereas the Black Magic property can be expected to produce upwards of 5% "punch" mica, the balance being "scrap" mica, and
- (5) - that the Mossberger and Black Magic properties should be thoroughly geologized, sampled and reported on prior to moving in of equipment for mining and mill erection.

Respectfully submitted,

R. E. Mieritz, P. E.

May 1, 1957

M. Gemmill reported:

Kale Group

R. S. Patterson, deceased

DEPARTMENT OF MINERAL RESOURCES

State of Arizona

MINE OWNER'S REPORT

MK-8

Date: 8-7-1940

1. Mine: KALE GROUP
2. Mining District & County: Tiger Mining District, Yavapai County
3. Former Name:
4. Location: 3 miles S. E. from Crown King, Arizona, on Horse Thief Road.
5. Owner: R. S. Patterson
6. Address (Owner): Crown King, Ariz.
7. Operator:
8. Address (Operator):
9. President:
10. Gen. Mgr:
11. Mine Supt:
12. Mill Supt:
13. Principal Metals: MICA
14. Men Employed:
15. Production Rate:
16. Mill - Type & Cap:
17. Power - Amt. & Type:
18. Operations - Present: Doing assessment work.
19. Operations Planned: Pending sale, lease or financing.
20. Number Claims, Title, etc: Five in all - 3 claims #2, 3 & 4 end to end
1 claim sideline #2 & #3 to the east.
1 claim sidelines it.
21. Description - Topography & Geogrphay: 6900 ft. elevation - top of mountain covered with pine and oak, large size timber, main 3 claims along ridge.
22. Mine Workings - Amt. & Condition: Discovery and assessment work only.

23. Geology & Mineralization: General granite area with minor schist zone; main feature 300 ft. and over width of Pegmatite dike showing mica.
24. Ore - Positive & Probable, Ore Dumps, Tailings: Nothing blocked, but large tonnage indicated.
- 24-A. Vein Width, Length, Value, etc:
25. Mine, Mill Equipment & Flow Sheet:
26. Road Conditions, Route: Main-graded highway crosses claims. 3 miles from Crown King P. O. on Horse Thief Basin Road.
27. Water Supply: Domestic water available. Milling water should be investigated, ample supply at Crown King for milling purposes - might be necessary to move ore.
28. Brief History: Recent discovery.
29. Special Problems, Reports Filed: Cleaning plant needed to make scrap mica.
30. Remarks: California Non-Metallic Co., 424 E. Third Street, Los Angeles, Calif.
Tests made by C. L. Baker, Prescott, Arizona, on samples indicate particularly clean mica - about 25% mica recoverable by cleaning. Shows gold in possible pay quantity.
31. If property for sale - Price, terms and address to negotiate: Will sell on terms or royalty. See Owner.
32. Signed: (SIGNED) R. S. PATTERSON
Crown King, Arizona

KALE GROUP

cut

Mica

Yavapai

13 - 7

T 10 N, R 1 W

DEPARTMENT OF MINERAL RESOURCES

State of Arizona
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11. Mine Supt:
12. Mill Supt:
13. Principal Metals: MICA
14. Men Employed:
15. Production Rate:
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17. Power - Amt. & Type:
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Crown King, Arizona

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

OWNERS MINE REPORT

Date 8-7-40

MK-8

- 1. Mine Kale Group
- 2. Mining District & County Tiger Mining District
Crown King - Yavapai County
- 3. Former name
- 4. Location 3 miles - S.E. from Crown King
on Horse Thief Road
- 5. Owner R. S. Patterson
- 6. Address (Owner) Crown King, Arizona
- 7. Operator
- 8. Address (Operator)
- 9. President
- 10. Gen. Mgr.
- 11. Mine Supt.
- 12. Mill Supt.
- 13. Principal Metals ~~Mica-in Pegmatite~~
- 14. Men Employed
- 15. Production Rate
- 16. Mill: Type & Cap.
- 17. Power: Amt. & Type
- 18. Operations: Present Doing assessment work
- 19. Operations Planned Pending sale - lease or financing.
- 20. Number Claims, Title, etc. Five in all. 3 claims - #23,4, end to end.
1 claim - sideline #2, 3, to the east.
1 claim - sidelines it.
- 21. Description: Topography & Geography 6900 ft. elevation - top of mountain, covered with
pine and oak, large size timber, main 3 claims along ridge.
- 22. Mine Workings: Amt. & Condition Discovery and assessment work only

23. Geology & Mineralization General granite-area + with minor schist zone - main feature 300 ft. and over width of Pegmatite dike - showing mica.

24. Ore: Positive & Probable, Ore Dumps, Tailings Nothing blocked but large tonnage indicated

24-A Vein Width, Length, Value, etc.

25. Mine, Mill Equipment & Flow Sheet

26. Road Conditions, Route Main-graded highway crosses claims. 3 miles from Crown King P.O. on Horse Thief Basin Road.

27. Water Supply Domestic water available. Milling water should be investigated, ample supply at Crown King for milling purposes might be necessary to more ore.

28. Brief History Recent discovery

29. Special Problems, Reports Filed Cleaning plant needed to make scrap mica

30. Remarks California Non-Metallic Co., 424 E. 3rd St., Los Angeles. Tests made by C. L. Baker (Prescott) on samples indicate - particularly Clean Mica - about 25% Mica recoverable by cleaning. Shows gold in possible pay quantity.

31. If property for sale: Price, terms and address to negotiate.

Sell on terms or royalty. See owner.

32. Signed..... R. S. Patterson.....

33. Use additional sheets if necessary.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
OWNERS MINE REPORT

Date 8/7/40

Mine KALE GROUP.
District TIGER MINING DISTRICT.
CROWN KING - YAVAPAI COUNTY

Location 3 MILES - S.E. FROM CROWN KING
ON HORSE THIEF ROAD

Former name _____
Owner R. S. PATTERSON

Address CROWN KING - ARIZ

Operator _____

Address _____

President _____

Gen. Mgr. _____

Mine Supt. _____

Mill Supt. _____

Principal Metals MICA - ~~IN PEGMATIC~~ -

Men Employed _____

Production Rate _____

Mill: Type & Cap. _____

Power: Amt. & Type _____

Operations: Present DOING ASSESSMENT WORK.

Operations Planned PENDING SALE - LEASE OR FINANCING.

Number Claims, Title, etc. 5 IN ALL -
3 CLAIMS - #2-3 + 4 END TO END.
1 CLAIM SIDELINE #2 & #3 TO THE EAST
1 " SIDELINES 11.

Description: Topog. & Geog. 6900 ft. ELEVATION - TOP OF MOUNTAIN
COVERED WITH PINE & OAK - LARGE SIZE TIMBER.
MAIN 3 CLAIMS ALONG RIDGE.

Mine Workings: Amt. & Condition DISCOVERY & ASSESSMENT WORK ONLY.

Geology & Mineralization

GENERAL GRANITE AREA - WITH MINOR SCHIST ZONE - MAIN FEATURE 300 ft. & OVER WIDTH OF PEGMATITE DIKE - SHOWING MICA

Ore: Positive & Probable, Ore Dumps, Tailings

NOTHING BLOCKED BUT LARGE TONNAGE INDICATED.

Mine, Mill Equipment & Flow Sheet

NONE.

Road Conditions, Route

MAIN-GRADED HI-WAY CROSSES CLAIMS. 3 MILES FROM CROWN KING T.O. ON HORSE THIEF BASIN ROAD.

Water Supply

DOMESTIC WATER - AVAILABLE. MILLING WATER SHOULD BE INVESTIGATED. AMPLE SUPPLY AT CROWN KING FOR MILLING PURPOSES MIGHT BE NECESSARY TO MOVE ORE.

Brief History

RECENT DISCOVERY.

Special Problems, Reports Filed

CLEANING PLANT NEEDED TO MAKE SCRAP MICA.

Remarks

TESTS MADE BY C.L. BAKER (PRESCOTT) ON SAMPLES INDICATE - PARTICULARLY CLEAN MICA - ABOUT 25% MICA RECOVERABLE BY CLEANING. SHOWS GOLD IN POSSIBLE PAY QUANTITY.

If property for sale: Price, terms and address to negotiate.

SELL ON TERMS OR ROYALTY. SEE OWNER.

Signed

R. S. Patterson

DEPARTMENT OF MINERAL RESOURCES

State of Arizona
MINE OWNER'S REPORT

MK-8

Date: 8-7-1940

1. Mine: KALE GROUP
2. Mining District & County: Tiger Mining District, Yavapai County
3. Former Name:
4. Location: 3 miles S. E. from Crown King, Arizona, on Horse Thief Road.
5. Owner: R. S. Patterson
6. Address (Owner): Crown King, Ariz.
7. Operator:
8. Address (Operator):
9. President:
10. Gen. Mgr:
11. Mine Supt:
12. Mill Supt:
13. Principal Metals: MICA
14. Men Employed:
15. Production Rate:
16. Mill - Type & Cap:
17. Power - Amt. & Type:
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11. Mine Supt:
12. Mill Supt:
13. Principal Metals: MICA
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