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PRINTED: 10-07-2009

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: KANSAS MINE

ALTERNATE NAMES:
POOLE GROUP
VENADOS

SANTA CRUZ COUNTY MILS NUMBER: 109C

LOCATION: TOWNSHIP 23 S RANGE 16 E SECTION 34 QUARTER NE
LATITUDE: N 31DEG 23MIN 13SEC LONGITUDE: W 110DEG 41MIN 50SEC
TOPO MAP NAME: LOCHIEL - 15 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:
ZINC
LEAD
COPPER
LEAD
GOLD

BIBLIOGRAPHY:
AZBM BULL. 191, INDEX OF MINING PROP. IN
SANTA CRUZ CO.
AZBM CARD FILE SANTA CRUZ CO.
ADMMR VENADOS MINE FILE
ADMMR KANSAS MINE FILE
USGS BULL. 582, P. 342
USAEC 172-489, P. 36
AIME TRANS VOL. 36 (1906), P. 626

KANSAS MINE

SANTA CRUZ COUNTY

USGS Bull. 582 p. 342

AEC 172-489 p. 36

TAIME Vol 36 p. 626

Nash Mine (file)

Duquesne Mine (file)

Venados Mine file

ABM Bull. 191 p. 78

MILS Sheet sequence number 0040230248

KANSAS MINE

SANTA CRUZ COUNTY

Property purchased by Mr. Carl Sandberg, 7425 N. Obregon Dr., Tucson and Mr. Fred Williams, Jr., 2060 Yandes St., Indianapolis, Indiana.
Memo ALJ 11-12-64

Mine visit. The Kansas mine and old producer now idle. S34 T23S R16E. Mr. Lenon had a survey crew surveying the south side lines of the Venus 1-2-3 unpat. claims belonging to Amando De La Osa where they join the pat. claims Posey & Noondate on which the Kansas mine is located. GWI WR 9/25/72

MG/WR 3/7/79 - Visited Kansas Mine, locked chain across access road. Two compartment shaft caved or boarded off about 20 feet down. Old compressed air (?) tank on surface. Ore hopper and loading chutes on surface standing but in weak condition. No activity. 4/18/79 a.p.

MG WR 9/17/80: Visited the Kansas Mine in Santa Cruz County. There was no sign of activity at mine site.

*GENERAL REFERENCES.

REFERENCE 1 F1 < ABG-MT-U FILE DATA
 REFERENCE 2 F2 < USBM FILES, KANSAS MINE
 REFERENCE 3 F3 < SCHRADER, F.C., 1915, USGS BULL. 582, p. 342-343
 REFERENCE 4 F4 < KEITH, S.B., 1975, ABM BULL. 191, p. 78

C30 < SPHALERITE, CHALCOPYRITE >
 L110 < (1930), KANSAS MINING AND DEVELOPMENT CO. (1930), CURTIS ESTATE (1937), CALLAHAN ZINC LEAD CO. (1940-41), BYRD (1945-50), NASH MINES (1951-59), MAR-PAK CORP. (1959), LOCATED ON POSEY AND NOONDATE CLAIMS; MINED FROM LATE 1870'S THROUGH 1959 >
 M110 < CONTAINING DEPOSITS 15-10 FT WIDE >
 K5 < ALONG CONTACT OF LIMESTONE WITH SILICIC VOLCANICS >
 N5 < SEDIMENT BELT (2.5 MILES LONG AND 1.25 MILES WIDE) SURROUNDED BY IGNEOUS ROCK WHICH ALSO FORM DETACHED MASSES AND DIKES WITHIN BELT >
 N75 < AND PYROMETASOMATIZED LIMESTONE >
 N80 < ENRICHMENT >
 F5 < ADMR FILE DATA, KANSAS MINE >
 F6 < ABG-MT FILES, STANTON B. KEITH >
 F7 < SIMONS F.S., 1974 USGS MAP I-762 (1:48000) >
 F8 < LEHMAN, NORMAN E., 1978 THE GEOLOGY AND PYROMETASOMATIC ORE DEPOSITS OF THE WASHINGTON CAMP-DUQUESNE DISTRICT SANTA CRUZ COUNTY, ARIZONA; PH.D. DISSERTATION UNIVERSITY OF ARIZONA, p. 126-143 >
 F9 < ABG-MT CLIPPINGS FILE, KANSAS MINE >
 F10 < TENNEY, JAMES B., 1927-29, HISTORY OF MINING IN ARIZONA; ARIZONA BUREAU OF MINES, p. 293-300 >

U.S. CRIB-SITE FORM

RECORD IDENTIFICATION

RECORD NUMBER B10 < _____ >
 REPORT DATE G1 < 8.2.05 >
 REPORTER(SUPERVISOR) G2 < CALDER, SUSAN R. >
 REPORTER AFFILIATION G5 < ABG-MT >
 SYNONYMS A11 < POOLE GROUP; VENADOS >
 RECORD-TYPE B20 < X1.M >
 INFORMATION SOURCE B30 < 1.2 >
 DEPOSIT NUMBER B40 < _____ >
 FILE LINK IDENT. B50 < USBM-0040230248 >
 (last, first, middle initial) (last, first, middle initial)

LOCATION

MINING DISTRICT/AREA A30 < WASHINGTON CAMP DISTRICT >
 COUNTY A60 < SANTA CRUZ >
 PHYSIOGRAPHIC PROV. A63 < 1.2 >
 DRAINAGE AREA A62 < U.S.D. 3.01, V. LOWER COLORADO >
 QUADRANGLE NAME A90 < LOCHIEL (1958) >
 SECOND QUAD NAME A92 < HARSHAW (1948) >
 ELEVATION A107 < 5,750 FT. >
 STATE A60 < AZ >
 COUNTRY A40 < U.S. >
 LAND STATUS A64 < 4.1, V. (1979) >
 QUADRANGLE SCALE A100 < 2500 >
 SECOND QUAD SCALE A98 < 2400 >

UTM
 NORTHING A120 < 3472335 >
 EASTING A130 < 528780 >
 ZONE NUMBER A110 < 12 >

*ACCURACY
 ACCURATE ACC (circle)
 ESTIMATED EST
 GEODETIC
 LATITUDE A70 < 31-23-13 N >
 LONGITUDE A80 < 110-41-50 W >

CADASTRAL
 TOWNSHIP(S) A77 < 023 S >
 SECTION(S) A79 < 34 >
 SECTION FRACTION(S) A76 < SW OF NE >
 MERIDIAN(S) A81 < GILA AND SALT RIVER >
 RANGE(S) A78 < 016 E >

POSITION FROM NEAREST PROMINENT LOCALITY A82 < 3/4 MILE NW OF WASHINGTON CAMP, NORTH OF WASHINGTON GULCH >
 LOCATION COMMENTS A83 < ADJACENT ON NE TO SIMPLOT MINE >

ESSENTIAL INFORMATION:
 ESSENTIAL SOMETIMES OR HIGHLY RECOMMENDED

2159

ARIZONA DEPARTMENT OF MINER RESOURCES
Mineral Building, Fairgrounds
Phoenix, Arizona

1. Information from: Visit
- Address: _____
2. Mine: _____ 3. No. of Claims - Patented ?
Unpatented ?
4. Location: Upper Sycamore Canyon
Unsurveyed. Probably 1 1/2 miles due west of
5. Sec _____ Tp _____ Range _____ 6. Mining District Patagonia
7. Owner: Getty Oil - US Smelting Kansas Mine
8. Address: _____
9. Operating Co.: Getty oil Co.
10. Address: ?
11. President: ? 12. Gen. Mgr.: ?
13. Principal Metals: ? 14. No. Employed: ?
15. Mill, Type & Capacity: _____
16. Present Operations: (a) Down (b) Assessment work (c) Exploration
(d) Production (e) Rate _____ tpd.
17. New Work Planned: Drilling hole inclined south into
Mt Washington. Saw one Joy rig - other holes
have been reported.
18. Miscl. Notes: _____

Date: 5/21/71

Gardner
(Signature)

(Field Engineer)

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine Venados Mine

Date Jan. 27, 1960

District Duquesne District, Santa Cruz Co.

Engineer Axel L. Johnson

Subject: Present Status. Information from K. L. Erickson

Mar-Pak Corporation suspended operations on Dec. 31, 1959. Mine is now idle.

Exploration work only - ALJ - Weekly Report - 7-8-61

The holdings of Mr. Nash at Washington Camp were purchased by Carl Sandberg, 7425 N. Obregon Dr., Tucson, and Fred Williams, Jr., 2060 Yandes Street, Indianapolis, Indiana (2).

See complete report in the Nash Mines file.

MEMO ALJ Nov. 12, 1964

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine **Venados Mine**

Date **Dec. 2, 1959**

District **Duquesne District, Santa Cruz Co.**

Engineer **Axel L. Johnson**

Subject: **Present Status. Information from Fernando De La Ossa, Foreman. No Visit.**

References Report of Oct. 7, 1959, and previous reports.

Lessees & Operators Mar-Pak Corporation.

Principal Minerals Copper, zinc, silver, and a small amount of lead.

Present Mining Activity Long hole drilling (20 ft. holes) on the 100 ft. level.
3 men working -- day shift only. No ore production at present.

Feb. 18, 1960

Axel L. Johnson

Mine closed January 1, 1960

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine Venados Mine

Date Oct. 7, 1959

District Duquesne District, Santa Cruz Co.

Engineer Axel L. Johnson

Subject: Present Status. Information from A. A. Green, chief clerk and mine visit.

References Reports of June 4 and Sept. 18, 1959.

Lessees & Operators Mar-Pak Corporation.

Principal Minerals Copper, zinc, silver, and a small amount of lead.

Present Mining Activity Mining ore and stockpiling same. 3 men working, day shift only. Production about 10 tons per week. Production mostly from drifting operations.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine ✓ Venados Mine Date September 18, 1959
District Duquesne District, Santa Cruz County Engineer Axel L. Johnson
Subject: Present Status --- Information from Fernando De La Ossa, Mine Foreman

References: Report of June 4, 1959.

Lessees & Operators: ✓ Mar-Pak Corporation

Principal Minerals: ✓ Copper, zinc, silver and small amount of lead.

Present Mining Activity: Mining ore and shipping same to the Sahuarita Mill for milling.
3 men working day shift only. Production 30 to 40 tons per week.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Venados Mine

Date June 4, 1959

District Duquesne District, Santa Cruz Co.

Engineer Axel L. Johnson

Subject: Field Engineers Report. Information from Edward Eisenbrey. Not visited.

References Report of Oct. 11, 1957 and March 15, 1957

Location Near Washington Camp.

Owners Nash Mines, 406 Nash Building, Austin, Texas.

Lessees & Operators

- Mar-Pak Corporation, Mining Division, Painesville, Ohio
- Joe Martin, President, Painesville, Ohio.
- O. D. Terry, Vice-Pres., 2644 S. Alvernon, Tucson, Ariz.
- Robert A. Fogle, Mines Manager, 3808 E. 25th St., Tucson, Ariz.
- Edward Eisenbrey, Geologist, Washington Camp, Ariz.

Principal Minerals Copper, Zinc, Silver, with only a small amount of Lead.

Present Mining Activity Repair work and long hole drilling. 3 men working.

Ore Values Following assays from samples taken on the long hold drilling done on the Venados are as follows:

- | | | | |
|--------------------|-----------------|-------------|--------------|
| (1) Copper 7.68 %; | Silver 5.9 oz.; | Lead 2.5 %; | Zinc 16.5 %. |
| (2) Copper 3.20 %; | Silver 2.5 oz.; | Lead trace; | Zinc 3.1 %. |

Milling & Marketing Facilities Operators expect to ship this ore directly to the smelter, as it is mostly copper ore.

Present Mining Operations Operations on the Venados started approximately on May 1st. Since that time, the ~~operators~~ operators have completed the rehabilitations of the surface installations, and repaired the shaft. They are now doing miscellaneous repair work, and also some long hole drilling.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine [✓] Venados Mine

Date Oct. 11, 1957

District Duquesne District, Santa Cruz Co.

Engineer Axel L. Johnson

Subject: Present Status. Personal Visit & information from Ted Granillo, lessee.

References Report of March 15, 1957

Location Near Washington Camp.

Owners [✓] Nash Mines, 406 Nash Bldg., Austin, Texas.

Lessees & Operators [✓] Ted Granillo, Washington Camp.

Principal Minerals [✓] Copper, Zinc, Silver. No lead.

Present Mining Activity Shaft sinking in ore. 2 men working. About 50 tons per month produced.

Geology Vein in the limestone, dipping 60 degrees to the north. Vein about 6' wide.

Ore Values Mr. Granillo reports the following ore values: Copper 4.5 %; Zinc 2.0 %; Silver 1 oz.; Lead none. This is a considerable decrease from ore values reported on March 15.

Ore in Sight and Probable None. Mine is undeveloped.

Milling & Marketing Facilities Shipping ore direct to the smelter at El Paso, Texas. Ore hauled by Strong & Harris to Patagonia loading ramp at \$ 1.70 per ton.

Mine Workings 1 inclined shaft (incl. 60 deg.) sunk in the ore vein, 120 ft. deep. Small stope ---- 5 x 15 x 15 on one side of shaft.

Present Mining Operations Shaft sinking in the ore vein. Shaft now down to depth of 120, with 50 ft. more to go to reach objective. Ore is hoisted up the shaft in a bucket, trammed by wheelbarrow to the ore stockpile and hand sorted. Ore shoveled by hand by the operators into the Strong & Harris trucks, which haul the ore to the loading ramp at Patagonia.

Proposed Plans Operators plan to sink the shaft an additional 50 ft., to the 170 ft. level. After that, they plan to drift on this level on the ore vein into the old Kansas Mine workings and then use the Kansas Mine shaft for hoisting the ore. He estimates a drift 200 ft. long will intersect the Kansas workings. The 160 ft. level of the Venados mine is estimated to be about the same elevation as the bottom of the Kansas shaft.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Venados Mine

Date March 15, 1957

District Duquesne District --- Santa Cruz Co.

Engineer Axel L. Johnson

Subject: Mine Report. Personal visit and information from Ted Granillo, lessee.

Location Near Washington Camp.

Owners Nash Mines, 406 Nash Bldg., Austin, Texas.

Lessees and Operators Ted Granillo

Principal Minerals Copper, Zinc, Silver. No lead.

Number of Men Working 3

Production Rate About 110 tons per month shipped to the A. S. & R. smelter at El Paso.

Ore Values Copper 6 to 7 %; Zinc 2 %; Silver 4 oz.; lead none.

Present Operations Shaft sinking in ore on the vein, up to date of visit. Operators are now ready to start drifting on the 85 ft. level. Shaft is now 85 ft. deep at incline of about 60 degrees to the north, following the vein.

Geology Vein dipping 60 degrees to the north. Hanging wall and footwall both limestone. Ore horizon about 6 ft. wide on the 85 ft. level.

References None.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Kansas Mine

Date Sept. 16, 1955.

District Duquesne District ---- Santa Cruz Co. Engineer Axel L. Johnson

Subject: Present Status. Information from D. C. Gilbert, Mgr. Nash Mines.

References See report of March 11, 1955, and report of May 13, 1955. Changes and additions to above reports indicated below.

Number of Men Employed at present 3 and 4 men.

Production Rate About 100 tons per month of siliceous copper ore, running about 8 % is produced and shipped to the El Paso smelter. Ore contains no zinc.

Ore in Sight and Probable Very little ore in sight, Mr. Gilbert estimating about 50 tons. Probable ore indeterminate as yet.

Present operations

- (1) Stoping ore and shipping same to the El Paso smelter, from stope on 220' lev.
- (2) Sinking a winze in ore from the 220 ft. level, in order to develop additional ore reserves. This winze is now down to a depth of 35 ft.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Kansas Mine

Date March 11, 1955.

District Duquesne District ----Santa Cruz Co.

Engineer Axel L. Johnson

Subject: Mine Report ---- Present Status. Information from Alex DeLaOssa, lessee.

Location About 3/4 miles north-east of Washington Camp.

Owners Nash Mines, Inc., 406 Nash Bldg., Austin, Texas. D. C. Gilbert, Mgr., Patagonia.

Lessee Alex DeLaOssa, Nogales, Arizona.

Operators Same as above.

Principal Minerals Zinc and Copper.

Number of Men Employed 2 men --- part time

Production Rate No production yet. Expect to start stoping ore, after some more ore is developed by the present exploration program.

Ore Values Operators found a ~~small~~ small body of ore by raising, which ~~they~~ he claims runs 18 % zinc and 4 % copper.

Milling and Marketing Facilities Ore is trucked to the Trench mill of the A. S. & R. Co. for milling.

Present Operations Operators are doing exploration and development work by long hole drilling from the 100ft. level and the 200 ft. level of the mine. They have also been doing some raising. Found a ~~small~~ small body of zinc-copper ore by raising.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Kansas Mine

Date May 13, 1955

District Duquesne District ----- Santa Cruz Co. Engineer Axel L. Johnson

Subject: Present Status. Personal Visit and information from Alex DeLaOssa, Lessee.

For Location, Owners, Lessee, Operators & Principal Minerals see report of March 11, 1955.

Number of Men Employed 5 men (day shift only)

Production Rate Intermittent production from exploration work. May average 50 to 80 tons per month. 40 tons of ore was shipped to the Trench mill about 2 weeks ago.

Ore Values Vary. Operators found a small body of ore running 18 % zinc and 4 % copper, which they shipped to the Trench mill. Iron pyrites, containing copper ore, may run about 3 1/2 % copper.

Ore in Sight and Probable Ore Very little ore in sight. Operators are continuing exploring to develop ore.

Milling and Marketing Facilities Operators have been shipping ore to the Trench mill for milling. Operators intend to ship their pyritic copper ore to the A. S. & R. smelter at El Paso, Texas, if they find that it will run 3 1/2 % or better.

Present Mine Operations Operators are now sinking a winze to explore pyrite, which contains copper values. They hope this will develop some copper ore running about 3 1/2 % copper.

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine Kansas Mine

Date May 13, 1955

District Duquesne District ----- Santa Cruz Co.

Engineer Axel L. Johnson

Subject: Present Status. Personal Visit and information from Alex DeLaOssa, Lessee.

For Location, Owners, Lessee, Operators & Principal Minerals see report of March 11, 1955.

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DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Kansas Mine

Date Oct. 9, 1952.

District Duquesne District, Santa Cruz Co.

Engineer Axel L. Johnson

Subject: Mine Report ---- Present Status . Information from D. C. Gilbert, Manager,
Nash Mines.

Location 3/4 miles north-west of Washington Camp.

Owners Nash ~~MINES~~ Mines, Austin, Texas, D. C. Gilbert, Mgr., Patagonia, Ariz.

Lessee R. L. Brown ^{Jambotone} --- Royalty on a sliding scale from 10% to 20% acc. to grade.

Principal Minerals Zinc, Lead, Copper, and Silver

Number of men employed 8 to 10 men (one shift only)

Production Rate 75 to 100 tons per week

Geology Ore in pockets as replacements in limestone.

Ore Values
Zinc 5 % to 5.5 %
Lead 2.5 % to 3.0 %
Copper 1.5 % to 2.0 %
Silver 2 oz.

Milling Facilities Ore is milled at the Trench mill, being hauled there by truck.

Present Mine Workings 235 ft. vertical shaft, with 100 ft. level, 200 ft. level,
and also 235 ft. level. Mining operations now being conducted above the 200 ft.
level.

Present Operations Stoping.

Proposed Plans Will start drifting to find new ore bodies as soon as the price
of lead and ~~zinc~~ zinc goes up again.

General Remarks Operators say that this mine would be closed down now, if it
were not for the copper content in their ore.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Kansas Mine

Date Oct. 9, 1952.

District Duquesne District, Santa Cruz Co.

Engineer Axel L. Johnson

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Location 3/4 miles north-west of Washington Camp.

Owners Nash ~~Patagonia~~ Mines, Austin, Texas, D. C. Gilbert, Mgr., Patagonia, Ariz.

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General Remarks Operators say that this mine would be closed down now, if it
were not for the copper content in their ore.

DEPARTMENT OF MINERAL RESOURCES

REPORT TO OPA ON ACTIVE MINING PROJECT

Date 4/4/45
 Name of Mine Ransom - Huguenot Group
 Owner or Operator Dale Ransom
 Address Patagonia Ariz
 Mine Location Huguenot

Filing Information

File System.....
 File No.....
 This chart to be used for gallons of gasoline required per month.

PRESENT OPERATIONS: (check X)

Production ; Development ; Financing.....; Sale of mine.....;
 Experimental (sampling).....; Owner's occasional trip.....;
 Other (specify).....

PRODUCTION: Past and Future.

Tons

Approx. tons last 3 months
 Approx. present rate per 3 months
 Anticipated rate next 3 months 500 tons
 If in distant future check (X) here

EQUIPMENT OPERATED:

Type	Quantity or Horse Power	Miles or Hours Per Month	Gallons Required Per Month
Personal Cars
Light or Service Trucks	<u>2</u>	<u>?</u>	<u>?</u>
Ore Hauling Trucks
Compressors	<u>2</u>	<u>200</u>	<u>335</u>
Other Mine or Mill Eqpt.	<u>Trick</u>

PRODUCT PRODUCED OR CONTEMPLATED: Name metals or minerals.

.....

REMARKS:

Leaving from Ariz.

*Mrs. J. Walker
 Nogales Ariz.*

ARIZONA DEPARTMENT OF MINERAL RESOURCES

By.....

NAME OF MINE: KANSAS-~~DUQUESNE~~ MAINE-
OWNER: NEW YORK

COUNTY: Santa Cruz
DISTRICT:
METALS: Pb,Zn

OPERATOR AND ADDRESS		MINE STATUS	
Date:		Date:	
6/45	Dale Haining, Patagonia	6/45	Developing
9/45	Fletcher Merrill, Duquesne	9/45	Shipping

KANSAS

Pb, Zn

Santa Cruz 12 - 1 T 24 S, R 16 E

Chas. Russell, 218 N. 4th St., Tucson

'45

FIELD ENGINEERS REPORT

Mine - NASH MINES

Date- April 8, 1953

District - Duquesne Mining Dist.,
Santa Cruz Co.

Engineer- Axel L. Johnson

Subject: News Report -- Operations of Nash Mines

(c) Kansas Mine is now leased ~~from~~ the Nash Mines, Inc. by Alex DeLaOssa. The former lessee, R. L. Brown gave up his lease some time ago. The Kansas Mine produces principally zinc, with some lead, and a small amount of copper. Before the drop in zinc prices, this mine worked 10 to 12 men and produced about 300 tons per month. Now, they are working 4 men, and producing about 100 tons per month. Stopping operations

Subject

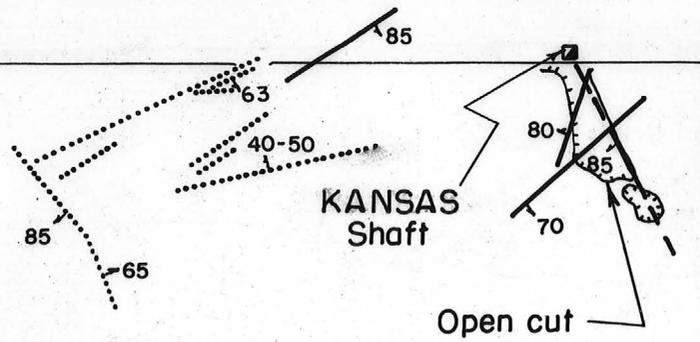
are being carried on in a small way in the fast dwindling ore reserves. No development and exploration is carried on at present on account of the low metal prices.

June 4 report by Axel L. Johnson

The Kansas Mine operated by R. L. Brown and Alex De La Ossa, which produced from 75 to 100 tons per week of ore last fall, and which reduced operations this spring to 25 tons per week, has now shut down. The shut down is reported to be temporary.

12,900 N.

NOTE: Purpose of this sketch is to show that the faults which localize ore are not continuous between the New York and Kansas mines.

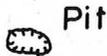


12,500 N.

40 - 1-1/2 ft. sulfides along this fault



Pit



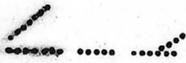
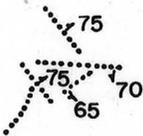
Pit

FAULTS that cropout at surface.

4500 E.

FAULTS exposed underground at 220-level in Kansas mine - at 155-level in New York mine - after map by Callaghan Company.

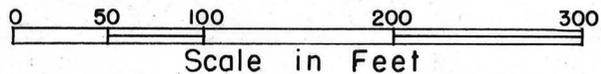
5000 E.



Open cut



Pit

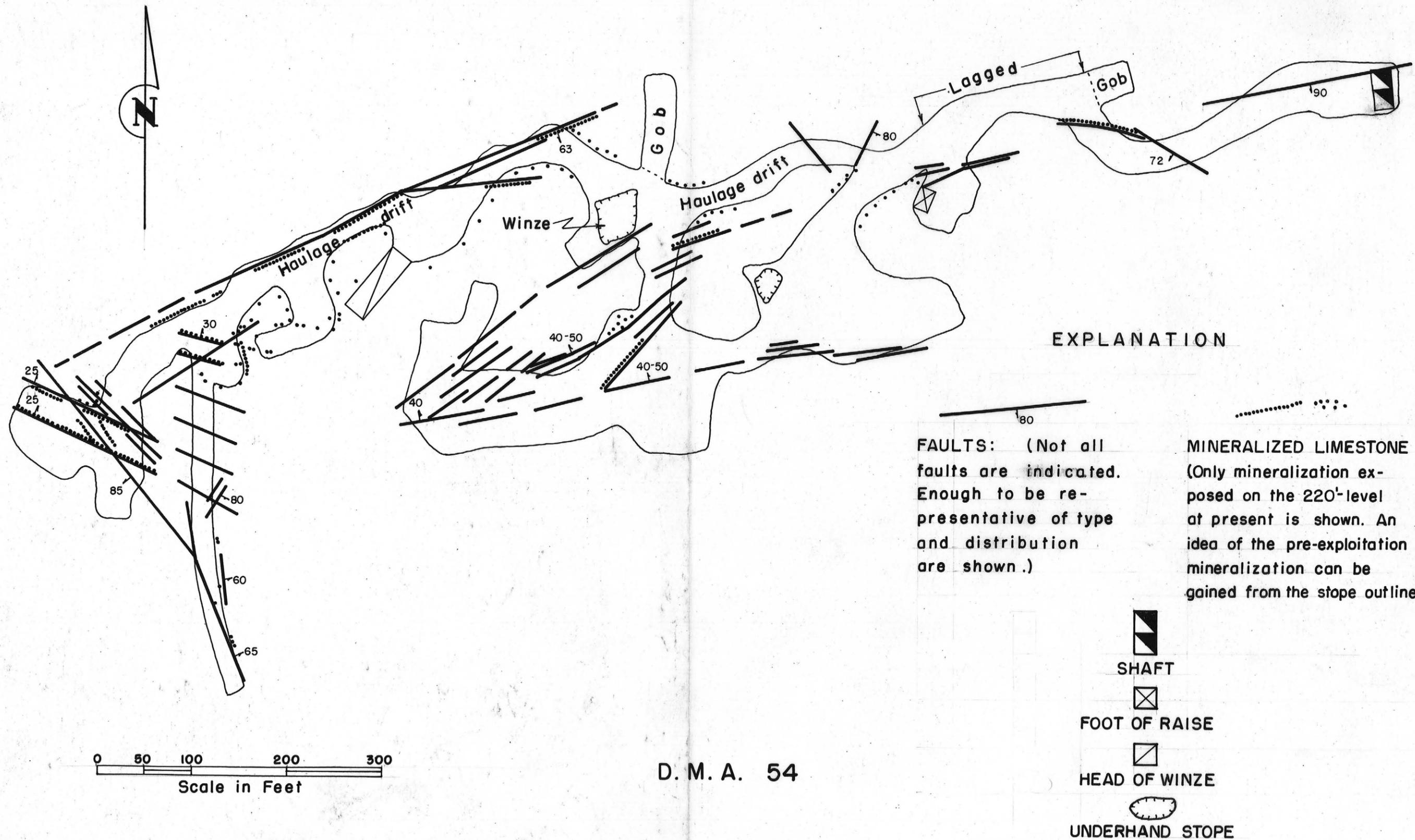


12,000 N.

NEW YORK Shaft

D.M.A. 54

Fig.3 - Sketch showing most persistent faults that localize ore in the vicinity of the Kansas and New York mines.



D. M. A. 54

Figure 4.- Geologic map of 220-level, Kansas mine, Duquesne Mining Co., Santa Cruz County, Ariz.