

## 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

The following file is part of the

Arizona Department of Mines and Mineral Resources Mining Collection

# ACCESS STATEMENT

These digitized collections are accessible for purposes of education and research. We have indicated what we know about copyright and rights of privacy, publicity, or trademark. Due to the nature of archival collections, we are not always able to identify this information. We are eager to hear from any rights owners, so that we may obtain accurate information. Upon request, we will remove material from public view while we address a rights issue.

# **CONSTRAINTS STATEMENT**

The Arizona Geological Survey does not claim to control all rights for all materials in its collection. These rights include, but are not limited to: copyright, privacy rights, and cultural protection rights. The User hereby assumes all responsibility for obtaining any rights to use the material in excess of "fair use."

The Survey makes no intellectual property claims to the products created by individual authors in the manuscript collections, except when the author deeded those rights to the Survey or when those authors were employed by the State of Arizona and created intellectual products as a function of their official duties. The Survey does maintain property rights to the physical and digital representations of the works.

# QUALITY STATEMENT

The Arizona Geological Survey is not responsible for the accuracy of the records, information, or opinions that may be contained in the files. The Survey collects, catalogs, and archives data on mineral properties regardless of its views of the veracity or accuracy of those data.

## PRINTED: 06/21/2002

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: ROYAL

ALTERNATE NAMES: DEER HORN

SANTA CRUZ COUNTY MILS NUMBER: 66F

LOCATION: TOWNSHIP 24 S RANGE 16 E SECTION 2 QUARTER NW LATITUDE: N 31DEG 22MIN 36SEC LONGITUDE: W 110DEG 41MIN 12SEC TOPO MAP NAME: HARSHAW - 7.5 MIN

CURRENT STATUS: UNKNOWN

COMMODITY:

ZINC LEAD COPPER SILVER GOLD CALCIUM LIMESTONE

**BIBLIOGRAPHY:** 

ADMMR ROYAL FILE USGS MAP I-762 SCHRADER F.C. USGS BULL. 582 P. 335-338 LEHMAN, NORMAN GEOLOGY AND PYROMETASOMATIC DEPOSITS OF WASHINGTON-DUQUESNE AREA, PHD DISSERTATION. U. ARIZONA 1978 P 126-143 MAPS ROYAL MINE (and Deer Horn)

SANTA CRUZ COUNTY

K = 1 - 1 - 25
 K = -2 - 12

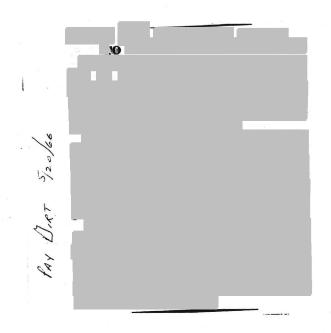
Skillings Mining Review May 21, 1966 p. 21

E&MJ Vol 167 No. 6 June 1966 p. 695

BLM Mining District Sheet 727

USGS Bull. 582, p. 335-338

Was with Bonanza in MILS, now has separate map number



Pay dist 11/1966



## THE ROYAL PROSPECT

### Patagonia Mining District Santa Cruz County, Arizona

By D. C. Gilbert February 1961

The Royal claim was located in 1930 by Hugo W. Miller, mining engineer of Nogales, Arizona, to acquire the northerly extension of the Bonanza vein. It was purchased from Miller by the writer in 1951, several months after starting geological work in the district. The adjoining Deer Horn claim was located in 1951 to cover existing fractions and to acquire a strong, oxidized vein outcrop on this ground. Under U. S. Mineral Survey No. 4423 all requirements for patent to these claims have now been met and the "Manager's Final Certificate" has been issued.

The Bonanza vein zone, along or near the contact between limestones of the district and the quartz-latite and other igneous country rocks (referred to collectively as "porphyry") has been developed and mined at intervals for a length of 2300 feet in the Estelle & Louise, the Illinois and the Bonanza claims. This contact zone extends into the Royal claim an additional 700 feet and the known mineralization and structural features suggest that the zone will likewise be productive in this area.

#### GENERAL SITUATION

The general situation is shown on the map in the pocket.On this the location of both the Holland-Smuggler and the Royal faults is taken from a recent map by R. C. Baker who is at present geologist with the Climax Molybdenum mine at Climax, Colorado. The diorite, diorite-porphyry and the quartz-latite are also Baker's mapping and nomenclature and are the results of field work extending over a period of several months.

The principal Bonanza ore shoot was 300 to 400 feet long, extending to the 635 level where it is presumed that some ore can still be developed downward. In this main ore shoot the near-surface portion was characterized by copper ore of excellent grade, while below the 100 ft. level the ores were chiefly copper-zinc sulphides with some zones in which the galena content was important. Molybdenum occurred in a few places in the upper levels but there has been no commercial development of this metal. No records of the mine production prior to 1951 are available, but many of the old stopes were quite wide and the tonnage is known to have been considerable.

In 1953 the first substantial development of the Bonanza claim north of the old main ore shoots was performed on 235 level, and the 335 level was driven some distance north the following year. This work resulted in the discovery of the Elayer ore body, a highly profitable shoot of 12 % copper ore which was 50 to 90 feet long, 12 to 20 feet wide and 70 feet high, and from which 5200 tons were shipped in a very short time. Later the 235 level was again extended northerly from the Elayer stope and 1800 tons of mixed copper-lead-zinc-silver ore were shipped from the Knight ore body. Much of the work in this area north of the old Bonanza ore shoots has been in porphyry, off the ore zone, and many excellent prospects remain in this north portion of the Bonanza claim. South of the old Bonanza ore shoots the Bonanza vein has been mined near the surface in the Illinois claim but the old stope outlines are not available. Some recent mining at 235 level in the Illinois claim is not shown on the enclosed section but this work was preliminary development only. In the Estelle & Louise claim the "contact vein" was known as the Estella and it produced some exceptionally valuable ore from a body 5 to 18 feet wide. Again there is no record of past production, although the Callahan company produced 27,800 tons from the Estella ore shoot during some three years of World War II. In 1956 the writer operated a lease on the 100 level and made 22 shipments from the two small stopes south of the main ore body. Typical assays were  $2\frac{1}{2}$ % Cu, 7% Pb, 11% Zn and 9 oz. Ag per ton. The ore was clean sulphide and was 4 feet to 8 feet wide.

#### GEOLOGICAL DATA

Usually the ore bodies of the Bonanza zone are in limestone against the porphyry contact or against garnet zones at this contact. However many important ore shoots were found in the limestone at considerable distances from the contact, usually along intersecting pre-mineral faults. The Elayer ore shoot is typical of these.

The major faults of the series are the louise, Estella, the Bonanza series, the Holland-Smuggler and the Royal. The section does not show the many smaller faults of the series which cut the ore zone and whose combined effect on ore deposition has been considerable. Since at least two major faults occur in the Royal ground it is assumed that the usual number of minor faults will be found as the development proceeds.

Much of the outcrop of the Bonanza "contact" is concealed in the Royal claim. The only good exposure is in the road cut just north of the old school building where there is a relatively wide zone of iron-stained material from which the low assays of 0.3% Cu and 0.4% Zn were obtained. Au and Ag were not determined.

In 1954 Luis De La Ossa of Lochiel who had started a prospect incline on a small molybdenum-zinc showing on Bonanza claim near the Royal end line, made a 33 ton shipment to the A. S. & R. Co. Trench Mill. This ore came from a drift at the bottom of his 60 ft. incline and assayed 12.62 % Pb, 12.90 % Zn and 10.12 oz. Ag. Further development of this small ore shoot entailed double hoisting by winzing into the Royal claim and the ore was therefore not followed. De La Ossa also drilled several core holes and these show encouraging zones of high-grade sulphide streaks as indicated on the long section.

Since the collar of the De La Ossa incline is in the bottmm of a gulch and subject to flooding, a road was built from the school area to a proposed new shaft site and the ground was levelled for sinking. The proposed shaft would be about 200 feet northeast of the De La Ossa incline and near an area of mineralized limestone adjacent to a "nubbin" of the porphyry, a situation which has been a guide to ore elsewhere in the district.

#### PROPOSED DEVELOPMENT

It is proposed to sink a vertical prospect shaft about 80 feet deep in the porphyry, then crosscut some 70 feet westerly to the mineralized limestone area, with further development depending upon ore findings. Due to the topography and location of the main road, sinking in the limestone would require expensive surface preparation.

In the low-wage Duquesne area the above development should not be expensive. The De La Ossa incline was sunk at a labor cost of \$15 per foot on contract, and at an overall cost of \$ 28 per foot. This included labor and supplies but no charges for equipment rental, supervision etc.

The proposed vertical shaft need be large enough only for a hoisting bucket and a small manway. Timbering would be light since portions of the Bonanza shaft and drifts in the porphyry have been found to stand well for many years. By contracting the labor the total cost of the shaft might be in the neighborhood of \$ 50 per foot and the crosscut \$ 22 per foot. This would bring the cost of the proposed work to \$ 5540.

There is an excellent chance that upon entering the limestone the crosscut will be in or very near an ore shoot, and the vertical shaft will be so located that it will also serve for any development related to the "gossan" near the school house.

It should be noted that the Estella ore body did not outcrop and in fact there is little evidence of the vein at the surface. The discovery was made from the old 70 level driven south from Bonanza shaft. In a broad sense the geological conditions on the Royal claim are similar to those on the Estelle & Louise.

ROYAL MINE

SANTA CRUZ COUNTY

D. C. Gilbert applying for patent a/c to Pardee. FPK 6-8-61

Pardee said patent was granted. FPK 5-13-66

Exploring with aid of OME loan north of Bonanza mine of Duquesne property. Have shaft with "6 x 7 ft. pipe of dandy ore going down and possibly getting bigger" according to note from Don Gilbert to FPKnight dated 3-20-67. FPK Note 3-22-67

Don Gilbert called 5-6-67. He has leased a place in Green Valley for one year. 366A LaCanada, Green Valley 85614. Telephone - 625-8503

He has found some rather high grade ore in the Royal mine. The mining is being done by Seminco under the direction of Don. 6 men are employed and the mine is working 2 shifts. As exploration continues the ore is being stockpiled. GWI Memo 5-8-67

Mine visit to the Royal mine - men underground - no one else around. Ore pile has been shipped. GWI WR 9-3-67

Dick Taylor and Alfredo Heredia have leased the Royal Mine near Patagonia and will start operations soon. Pay Dirt 5-1968

Mine visit to Don Gilberts' Royal mine - no one around. GWI WR 7-6-68

Mine visit to Don Gilberts' Royal mine - no one around. GWI WR 9-7-68

Don Gilbert shipped ore from his Royal mine. It is reported that he has recently leased this mine to another party. GWI Annual Report 7-1968

No activity since last mine visit. GWI WR 11-7-68

### DE. ARTMENT OF MINERAL RESOURCES STATE OF ARIZONA FIELD ENGINEERS REPORT

DEPT. MINERAL RESOURCES

The IV For

1966

MineROYALDateSeptember 8, 1966DistrictDUQUESNE- SANTA CRUZ COUNTYEngineerG. W. IRVIN

Subject: MINE REPORT- Information from Don. C. Gilbert

LOCATION - Between Washington Camp and Duquesne.

REFERENCES - Report by A. Johnson 10-9-52 PAY DIRT- May 20, 1966 page 8. Regarding a GSA loan of \$10,500

OWNER - Mrs. D. C. Gilbert.

OPERATOR - Don C. Gilbert.

PRINCIPAL MINERALS - Silver, Lead & Zinc.

NUMBER OF MEN WORKING - Three.

MINE WORKINGS - An inclined 60' shaft, dipping 55 degrees in a westerly direction. From this a drift extends toward the Bonanza Mine.

PLANS - The shaft is to be dewatered, and a drift from the bottom will be run opposite the present drift, in a northerly direction.

CLAIMS - (Two) The Royal and the Deerhorn.

Mine visited by Field Engineer about noon on September 8, 1966. The information is from Mr. Gilbert, who was on the property at the time.

Mine Visit to Don Gilbert's Deerhorn Claim, shaft dewatered, driving north on contact. 30feet) from shaft. Small headframe and hoist.

GWI WR 11/5/66

		CONVIO	DITY INFORMATION	and the second		
	C10 < A P.b.	_ L	A.U			
	CONSTRATES CHALCOPYRITE, PYRITE					
COMMODITY SUBTYPES				and a second		
OM. INFO. COMMENTS				5		
SIGNIFICANCE		*				
		PRODUCER	NON-PRODUCER			
NAJOR PRODUCTS	MAJOR < ZIN	<u> </u>		<u> </u>		
DTENTIAL PRODUCTS	POTEN		MINOR COMMODITIES PRESENT C12 <			
CCURRENCES	OCCUR < CILL , 18 ,			اللار اللار اللار		
and the second second	p	*PI PRODUCER				
	· · · · · · · · · · · · · · · · · · ·	ML) MED LGE (circle one)	PRODUCTION			
	S A D I D I D I D I D I D I D I D I D I D	WILL WHED EVE (Circle one)				
		EXPLORATIC	ON OR DEVELOPMENT			
STATUS	P	RODUCER	NON-PRODUCER			
	STATUS AND	DACTIVITY A20	STATUS AND ACTIVITY A20	<b>b</b>		
ISCOVERER	120	THE CONTRACT				
EAR OF DISCOVERY		NATURE OF DISCOVERY LSO	YEAR OF FIRST PRODUCTION L40 <			
RESENT/LAST OWNER	A12					
KESENI/LAST OPERATOR	LIIO PROPERTY	. GILBERT (1967) Y COMPRISES 2 PAT	TENTED CLAIMS : (ROYAL, D	EER HORNI - OUNERS		
INCLUDED	DUQUESNE MIN	NING AND REDUCTI	ION CO.			
		DESCRIP	TION OF DEPOSIT			
EPOSIT TYPE(S)	CAO ( REPLACEN	MENT				
EPOSIT FORM/SHAPE	MIOS PODS AND					
EPTH TO TOP	M20<	> <sup>†</sup> UNITS M21<	> MAXIMUM LENGTH M40 <	> <sup>†</sup> UNITS <b>M41</b> <		
EPTH TO BOTTOM	M30	> *UNITS M31 <	> MAXIMUM WIDTH	> UNITS M51<		
eposit size Trike	MIS SMALL MIS MED	DIUM > M15 (LARGE > (circle one)	MAXIMUM THICKNESS M60 <	> UNITS M61<		
			> DIP ********	ter en anter a		
RECTION OF PLUNGE	M100		PLUNGEANO			
	M100<		> PLUNGE M90 <			
			> PLUNGE M90 <			
PEP. DESC. COMMENTS			>			
PEP. DESC. COMMENTS		DESCRIPT	> PLUNGE M90<			
Workings gre: SURFAC		BOTH M140 (circle one)	TION OF WORKINGS			
Workings ore: SURFAC	E M120 UNDERGROUNE M130	0 BOTH M140 (circle one) _> <sup>↑</sup> UNITS M161 <	TION OF WORKINGS OVERALL LENGTH M190 < OVERALL WIDTH M200 <	> †UNITS M201<		
Workings ore: SURFACE DEPTH BELOW SURFACE LENGTH OF WORKINGS	M110 E M120 UNDERGROUNE M130 M160 M170	BOTH M140 (circle one)    > <sup>↑</sup> UNITS M161 <	TION OF WORKINGS           *OVERALL LENGTH M190          >           *OVERALL WIDTH M200          >           *OVERALL AREA           M210	> <sup>†</sup> UNITS M201< > <sup>†</sup> UNITS M211<		
EP. DESC. COMMENTS	M110 E M120 UNDERGROUNE M130 M160 M170	0 BOTH M140 (circle one) _> <sup>↑</sup> UNITS M161 <	TION OF WORKINGS           *OVERALL LENGTH M190          >           *OVERALL WIDTH M200          >           *OVERALL AREA           M210	> <sup>†</sup> UNITS M201< > <sup>†</sup> UNITS M211<		
Workings ore: SURFACE DEPTH BELOW SURFACE EINGTH OF WORKINGS	M110 E M120 UNDERGROUNE M130 M160 M170	BOTH M140 (circle one)    > <sup>↑</sup> UNITS M161 <	TION OF WORKINGS           *OVERALL LENGTH M190          >           *OVERALL WIDTH M200          >           *OVERALL AREA           M210	> <sup>†</sup> UNITS M201< > <sup>†</sup> UNITS M211<		
Workings ore: SURFACE DEPTH BELOW SURFACE LENGTH OF WORKINGS	M110 E M120 UNDERGROUNE M130 M160 M170	BOTH M140 (circle one)    > <sup>↑</sup> UNITS M161 <	TION OF WORKINGS *overall length m190< > *overall width m200< > *overall area m210< CLMIM - EXTENT OF DEVELO	> <sup>†</sup> UNITS M201< > <sup>†</sup> UNITS M211<		
Workings ore: SURFAC DEPTH BELOW SURFACE LENGTH OF WORKINGS DESC. OF WORK. COM.	M110 EM120 UNDERGROUNEM130 M160 M170 M220 SEVERAL	BOTH M140 (circle one)    > <sup>↑</sup> UNITS M161 <	TION OF WORKINGS           *OVERALL LENGTH M190          >           *OVERALL WIDTH M200          >           *OVERALL AREA           M210	> <sup>†</sup> UNITS M201< > <sup>†</sup> UNITS M211<		
KEP. DESC. COMMENTS	M110 EM120 UNDERGROUNEM130 M160 M170 M220 SEVERAL	DBOTH M140 (circle one)         _> *UNITS M161         _> *UNITS M161         _> *UNITS M171            SHAFTS ON ROYAL	TION OF WORKINGS OVERALL LENGTH M190 < OVERALL WIDTH M200 < OVERALL AREA M210 < CLAIM - EXTENT OF DEVELO GEOLOGY	> <sup>†</sup> UNITS M201< > <sup>†</sup> UNITS M211<		
Workings ore: SURFACE DEPTH BELOW SURFACE LENGTH OF WORKINGS DESC. OF WORK, COM.	M110 EM120 UNDERGROUNE M130 M160 < M170 < M220 < K1<_EPEKM K1<_CHERTY	DBOTH M140 (circle one) -> "UNITS M161< -> "UNITS M171< SHAFTS ON ROYAL MARBLE, MASSIVE	TION OF WORKINGS *overall length m190< > *overall width m200< > *overall area m210< CLMIM - EXTENT OF DEVELO	> <sup>†</sup> UNITS M201< > <sup>†</sup> UNITS M211<		
Workings one: SURFAC DEPTH BELOW SURFACE LENGTH OF WORKINGS DESC. OF WORK, COM.	MI 10 EM 120 UNDERGROUND MI30 MI60 < M170 < M220 < K1< K1< K1< K1< CHERTY K2< T.L.RT.R.	DBOTH M140 (circle one) -> "UNITS M161< -> "UNITS M171< SHAFTS ON ROYAL MARBLE, MASSIVE	TION OF WORKINGS <sup>*</sup> OVERALL LENGTH M190 	> <sup>†</sup> UNITS M201< > <sup>†</sup> UNITS M211<		
AGE OF HOST ROCK(S) HOST ROCK TYPE(S)	#M110         E M120 UNDERGROUNE M130         M160         M170         M220         SEVERAL         K1< <epekm< td="">         K1&lt;<epekm< td="">         K1         &lt;</epekm<></epekm<></epekm<></epekm<></epekm<></epekm<></epekm<></epekm<></epekm<></epekm<></epekm<></epekm<></epekm<></epekm<></epekm<></epekm<></epekm<></epekm<></epekm<>	DBOTH M140 (circle one) _> "UNITS M161< _> "UNITS M171<     	TION OF WORKINGS <sup>*</sup> OVERALL LENGTH M190 	> <sup>*</sup> units m201< > <sup>*</sup> units m211< РМЕЛТ UNKNOWN		
AGE OF HOST ROCK(S) AGE OF HOST ROCK(S) HOST ROCK TYPE(S) AGE OF MINERALIZATIC PERT. MINERALS (NOT C	#M110         E M120       UNDERGROUNE M130         M160	DBOTH M140 (circle one) -> 'UNITS M161 -> 'UNITS M171 -> HAFTS ON ROYAL MARBLE, MASSIVE 	TION OF WORKINGS OVERALL LENGTH M190 VERALL WIDTH M200 VERALL AREA M210 CLAIM ; EXTENT OF DEVELO GEOLOGY LIMESTONE T TRACHYTE TUFFS OF D ES; TREMOLITE; DIOPSIDE			
EP. DESC. COMMENTS	$EM120 UNDERGROUNE M130 M120 \leqM120 \leqM120 \leqM120 \leq\leq\leq\leq\leq\leq\leq\leq$	DBOTH M140 (circle one) ) UNITS M161 UNITS M171 SHAFTS ON ROYAL MARBLE, MASSIVE , K. MARBLE, MASSIVE , K. CS, RHYOLITE AND , MANGANESE OXIDE S OF IRREGULAR REI	TION OF WORKINGS OVERALL LENGTH M190 OVERALL WIDTH M200 OVERALL AREA M210 CLAIM ; EXTENT OF DEVELO GEOLOGY LIMESTONE T. TRACHYTE TUFFS OF DE S; TREMOLITE; DIOPSIDE PLACEMENT BODIES ALONG			
EP. DESC. COMMENTS Workings one: SURFAC SEPTH BELOW SURFACE ENGTH OF WORKINGS DESC. OF WORK. COM. AGE OF HOST ROCK(S) HOST ROCK TYPE(S) AGE OF GINEOUS ROCK GONEOUS ROCK TYPE(S) AGE OF MINERALIZATIC PERT. MINERALS (NOT CO ORE CONTROL/LOCUS MAJ. REG. TRENDS/STR	$K120 UNDERGROUNE M130 M120 UNDERGROUNE M130 M160 \leqM170 \leqM220 \leq SEVERALK1A \leq CHERT \leqK1A \leq CHERT \leqK2A \leq JUL \sim JUL \simK2A \leq JUL \sim JUL \simK2A \leq JUL \sim JUL \simK2A \leq JUL \simK2A \leqK2A \leq$	DBOTH M140 (circle one) -> 'UNITS M161 -> 'UNITS M171 -> HAFTS ON ROYAL MARBLE, MASSIVE 	TION OF WORKINGS OVERALL LENGTH M190 OVERALL WIDTH M200 OVERALL AREA M210 CLAIM ; EXTENT OF DEVELO GEOLOGY LIMESTONE T TRACHYTE TUFFS OF I S; TREMOLITE; DIOPSIDE PLACEMENT RODIES ALONG HINGTON - DUQUESNE AREA			
EP. DESC. COWMENTS Workings ore: SURFAC DEPTH BELOW SURFACE ENGTH OF WORKINGS DESC. OF WORK. COM. AGE OF HOST ROCK(S) HOST ROCK TYPE(S) AGE OF IGNEOUS ROCH GNEOUS ROCK TYPE(S) AGE OF MINERALIZATIC PERT. MINERALS (NOT C ORE CONTROL/LOCUS MAJ. REG. TRENDS/STR TECTONIC SETTING	EM120 UNDERGROUNE M130 M160 $\leq$ M170 $\leq$ M220 $\leq$ SEVERAL K1 $\leq$ CHERT $\leq$ K1 $\leq$ CHERT $\leq$ K2 $\leq$ JUJR $-$ JR K2 $\leq$ VOLCANJI NN K3 $\leq$ L.C.R.E.T NE K $\leq$ CLUSTER LIMONITE K5 $\leq$ CLUSTER UCT. NO $\leq$ MUJERAL NIS $\leq$ N- $\leq$ TREI	DBOTH M140 (circle one) ) UNITS M161 UNITS M171 SHAFTS ON ROYAL MARBLE, MASSIVE (S-, RHYOLITE AN) TERT. MANGANESE OXIDE S OF IRREGULAR REA DEPOSITS OF WAS NDING BONANZA F	TION OF WORKINGS OVERALL LENGTH M190 OVERALL WIDTH M200 OVERALL AREA M210 CLAIM ; EXTENT OF DEVELO GEOLOGY LIMESTONE T TRACHYTE TUFFS OF L ES; TREMOLITE; DIOPSIDE PLACEMENT BODIES ALONG HINGTON - DUQUESNE AREA			
EP. DESC. COMMENTS	EM120 UNDERGROUND M130 M160 $\leq$ M170 $\leq$ M170 $\leq$ M220 $\leq$ SEVERAL $\leq$ SEVERA	DBOTHM140 (circle one) VINITS M161 SHAFTS ON ROYAL MARBLE, MASSIVE MARBLE, MASSIVE MARBLE, MASSIVE MANGANESE OXIDE SOF IRREGULAR RET DEPOSITS OF WASH ATERAL OFFSET OF WASH ATERAL OFFSET OF WASH	TION OF WORKINGS <sup>o</sup> overall length M190 ·overall width M200 ·overall area M210 CLAIM ; EXTENT OF DEVELO GEOLOGY LIMESTONE T TRACHYTE TUFFS OF I ES: TREMOLITE: DIOPSIDE PLACEMENT BODIES ALONG HINGTON - DUQUESNE AREA FAULT ZONE; WASHINGTON J SONANZA FAULT BY TEXPS F MESTONE CONTACT METAMO			
AGE OF HOST ROCK(S) HOST ROCK TYPE(S) AGE OF HOST ROCK(S) HOST ROCK TYPE(S) AGE OF GINEOUS ROCK GNEOUS ROCK TYPE(S) AGE OF MINERALIZATIC AGE OF MINERALIZATIC PRECIDIC SETTING SIGNIFICANT ALTERATIC ROCESS OF CONC./ENI	EM120 UNDERGROUND M130 M160 $\leq$ M170 $\leq$ M220 $\leq$ SEVERAL $\leq$ SEV	DBOTHM140 (circle one) VINITS M161 SHAFTS ON ROYAL MARBLE, MASSIVE MARBLE, MASSIVE MARBLE, MASSIVE MANGANESE OXIDE SOF IRREGULAR RET DEPOSITS OF WASH ATERAL OFFSET OF WASH ATERAL OFFSET OF WASH	TION OF WORKINGS OVERALL LENGTH M190 OVERALL WIDTH M200 OVERALL WIDTH M200 OVERALL WIDTH M200 CLAIM - EXTENT OF DEVELO GEOLOGY LIMESTONE T TRACHYTE TUFFS OF D ES; TREMOLITE; DIOPSIDE PLACEMENT BODIES ALONS HINIGTON - DUQUESNE AREA AULT ZONE; WASHINIGTON SONANIZA FAULT BY TEXAS F			
EP. DESC. COMMENTS Workings ore: SURFAC VEPTH BELOW SURFACE ENGTH OF WORKINGS ESC. OF WORK. COM. AGE OF HOST ROCK(S) HOST ROCK TYPE(S) AGE OF IGNEOUS ROCG GNEOUS ROCK TYPE(S) AGE OF MINERALIZATIC VERT. MINERALS (NOT C DRE CONTROL/LOCUS MAJ. REG. TRENDS/STR TECTONIC SETTING SIGNIFICANT ALTERATIC ROCESS OF CONC./ENI FORMATION AGE	EM120 UNDERGROUND M130 M160 $\leq$ M170 $\leq$ M220 $\leq$ SEVERAL $K1 \leq CHERT \leq$ $K2 \leq DLR = TR$ $K2 \leq VOLCANIC$ N K3 $\leq LCRET \leq$ $K2 \leq VOLCANIC$ N K3 $\leq LCRET \leq$ $K3 \leq LOSTERS$ UCT. N5 $MINJERAL$ M15 $\Delta J = 5$ TREI RUCT.M70 $RIGHT LI$ N N75 $\leq$ TRONG $f$ RICH.N80 $METASOM$ N30 $\leq CLERM$ .	DBOTHM140 (circle one) VINITS M161 SHAFTS ON ROYAL SHAFTS ON ROYAL MARBLE, MASSIVE MARBLE, MASSIVE MARBLE, MASSIVE MANGANESE OXIDE S CF IRREGULAR REA DEPOSITS OF WASS NDING- BONANZA F ATERAL OFFSET OF M PRITE GOSSANI; LI MATIC REPLACEMEN	TION OF WORKINGS <sup>o</sup> overall length M190 ·overall width M200 ·overall area M210 CLAIM ; EXTENT OF DEVELO GEOLOGY LIMESTONE T TRACHYTE TUFFS OF I ES: TREMOLITE: DIOPSIDE PLACEMENT BODIES ALONG HINGTON - DUQUESNE AREA FAULT ZONE; WASHINGTON J SONANZA FAULT BY TEXPS F MESTONE CONTACT METAMO			
AGE OF HOST ROCK(S) HOST ROCK TYPE(S) AGE OF HOST ROCK(S) HOST ROCK TYPE(S) AGE OF IGNEOUS ROCG IGNEOUS ROCK TYPE(S) AGE OF MINERALIZATIC PERT. MINERALS (NOT C ORE CONTROL/LOCUS MAJ. REG. TRENDS/STR TECTONIC SETTING SIGNIFICANT ALTRENTIC PROCESS OF CONC./ENI FORMATION NAME	EM120 UNDERGROUNE M130 M160 M160 M220 SEVERAL KIA CHERTY KIA CHERTA CHERTA KIA CHERTA KIA CHERTA KIA CHERTA CH	DBOTHM140 (circle one) VINITS M161 SHAFTS ON ROYAL MARBLE, MASSIVE MARBLE, MASSIVE MARBLE, MASSIVE MANGANESE OXIDE SOF IRREGULAR RET DEPOSITS OF WASH ATERAL OFFSET OF WASH ATERAL OFFSET OF WASH	TION OF WORKINGS <sup>o</sup> overall length M190 ·overall width M200 ·overall area M210 CLAIM ; EXTENT OF DEVELO GEOLOGY LIMESTONE T TRACHYTE TUFFS OF I ES: TREMOLITE: DIOPSIDE PLACEMENT BODIES ALONG HINGTON - DUQUESNE AREA FAULT ZONE; WASHINGTON J SONANZA FAULT BY TEXPS F MESTONE CONTACT METAMO			
AGE OF HOST ROCKIS) HOST ROCK TYPE(S) AGE OF HOST ROCKIS) HOST ROCK TYPE(S) AGE OF INTERVISE AGE OF MOST ROCKIS) HOST ROCK TYPE(S) AGE OF MINERALIZATIC PERT. MINERALS (NOT C ORE CONTROL/LOCUS MAJ. REG. TRENDS/STR TECTONIC SETTING SIGNIFICANT ALTERATIC PROCESS OF CONC./ENI FORMATION AGE FORMATION NAME SECOND FM AGE	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	DBOTHM140 (circle one) VINITS M161 SHAFTS ON ROYAL SHAFTS ON ROYAL MARBLE, MASSIVE MARBLE, MASSIVE MARBLE, MASSIVE MANGANESE OXIDE S CF IRREGULAR REA DEPOSITS OF WASS NDING- BONANZA F ATERAL OFFSET OF M PRITE GOSSANI; LI MATIC REPLACEMEN	TION OF WORKINGS <sup>o</sup> overall length M190 · overall width M200 · overall area M210 CLAIM ; EXTENT OF DEVELO GEOLOGY LIMESTONE T TRACHYTE TUFFS OF I ES ; TREMOLITE ; DIOPSIDE PLACEMENT BODIES ALONG HINGTON - DUQUESNE AREA FAULT ZONE ; WASHINGTON J SONANZA FAULT BY TEXPS F MESTONE CONTACT METAMO			
Workings are: SURFACE DEPTH BELOW SURFACE LENGTH OF WORKINGS DESC. OF WORK. COM. AGE OF HOST ROCK(S) HOST ROCK TYPE(S) AGE OF IGNEOUS ROCK IONEOUS ROCK TYPE(S) AGE OF MINERALIZATIC PERT. MINERALS (NOT C ORE CONTROL/LOCUS MAJ. REG. TRENDS/STR TECTONIC SETTING SIGNIFICANT ALTERATIC SIGNIFICANT ALTERATIC SIGNIFICANT ALTERATIC FORMATION AGE FORMATION NAME SECOND FM AGE SECOND FM AGE SECOND FM NAME	EM120 UNDERGROUNE M130 M160 M160 M170 M220 SEVERAL KIA CHERTY	DBOTHM140 (circle one) VINITS M161 SHAFTS ON ROYAL SHAFTS ON ROYAL MARBLE, MASSIVE MARBLE, MASSIVE MARBLE, MASSIVE MANGANESE OXIDE S CF IRREGULAR REA DEPOSITS OF WASS NDING- BONANZA F ATERAL OFFSET OF M PRITE GOSSANI; LI MATIC REPLACEMEN	TION OF WORKINGS <sup>o</sup> overall length M190 · overall width M200 · overall area M210 CLAIM ; EXTENT OF DEVELO GEOLOGY LIMESTONE T TRACHYTE TUFFS OF I ES ; TREMOLITE ; DIOPSIDE PLACEMENT BODIES ALONG HINGTON - DUQUESNE AREA FAULT ZONE ; WASHINGTON J SONANZA FAULT BY TEXPS F MESTONE CONTACT METAMO			
Workings one: SURFACE DEPTH BELOW SURFACE LEINGTH OF WORKINGS DESC. OF WORK. COM. AGE OF HOST ROCK(S) HOST ROCK TYPE(S) AGE OF IGNEOUS ROCK IGNEOUS ROCK TYPE(S) AGE OF MINERALIZATIC PERT. MINERALS (NOT C ORE CONTROL/LOCUS MAJ. REG. TRENDS/STR TECTONIC SETTING SIGNIFICANT ALTEATIC PROCESS OF CONC./ENI FORMATION AGE FORMATION NAME SECOND FM AGE SECOND FM AGE SECOND FM AGE SECOND FM AGE IGNEOUS UNIT AGE IGNEOUS UNIT AGE	EM120 UNDERGROUNE M130 M160 M170 M220 SEVERAL KIA CHERTY (5) K2 JULK - TIR K2 VOLCANIC NK K3 L.C.R.E.T NK MOL METASON NTS STRONG F RICH.NBO METASON N30A SCHERRE N35A N504	DBOTHM140 (circle one) > 'UNITS M161 < SHAFTS ON ROYAL SHAFTS ON ROYAL MARBLE, MASSIVE 	TION OF WORKINGS <sup>o</sup> overall length M190 · overall width M200 · overall area M210 CLAIM ; EXTENT OF DEVELO GEOLOGY LIMESTONE T TRACHYTE TUFFS OF I ES ; TREMOLITE ; DIOPSIDE PLACEMENT BODIES ALONG HINGTON - DUQUESNE AREA FAULT ZONE ; WASHINGTON J SONANZA FAULT BY TEXPS F MESTONE CONTACT METAMO			
AGE OF HOST ROCK(S) HOST ROCK TYPE(S) AGE OF HOST ROCK(S) HOST ROCK TYPE(S) AGE OF IGNEOUS ROCH IGNEOUS ROCK TYPE(S) AGE OF IGNEOUS ROCH IGNEOUS ROCK TYPE(S) AGE OF MINERALIZATIC PRET. MINERALS (NOT C ORE CONTROL/LOCUS MAJ. REG. TRENDS/STR TECTONIC SETTING SIGNIFICANT ALTERATIC PROCESS OF CONC./ENI FORMATION AGE FORMATION AGE FORMATION AGE SECOND FM NAME IGNEOUS UNIT AGE IGNEOUS UNIT AGE	#M110         E M120 UNDERGROUNE M130         M160         M170         M220         SEVERAL         M170         M220         SEVERAL         K14         CHERTY         K15         K2         M170         M220         SEVERAL         M170         M220         SEVERAL         M220         SEVERAL         M220         SEVERAL         M220         SEVERAL         M220         SEVERAL         M220         SEVERAL         M220         M220         SEVERAL         M220         SEVERAL         NSA         SENERE         NS0A         M30A	DBOTH M140 (circle one) -> 'UNITS M161 -> 'UNITS M171 -> 'U	TION OF WORKINGS <sup>o</sup> overall length M190 · overall width M200 · overall area M210 CLAIM ; EXTENT OF DEVELO GEOLOGY LIMESTONE T TRACHYTE TUFFS OF I ES ; TREMOLITE ; DIOPSIDE PLACEMENT BODIES ALONG HINGTON - DUQUESNE AREA FAULT ZONE ; WASHINGTON J SONANZA FAULT BY TEXPS F MESTONE CONTACT METAMO			
Workings are: SURFAC DEPTH BELOW SURFACE LENGTH OF WORKINGS DESC. OF WORK. COM. AGE OF HOST ROCK(S) HOST ROCK TYPE(S) AGE OF IGNEOUS ROCK IGNEOUS ROCK TYPE(S) AGE OF IGNEOUS SC IGNEOUS ROCK TYPE(S) AGE OF IGNERALIZATIC PERT. MINERALS (NOT C ORE CONTROL/LOCUS IMAJ. REG. TRENDS/STR IECTONIC SETTING ISGNIFICANT ALTREATIC PROCESS OF CONC./ENI FORMATION NAME ISCOND FM AGE SECOND FM AGE SECOND FM AME IGNEOUS UNIT AGE IGNEOUS UNIT NAME	#M110         E M120 UNDERGROUNE M130         M160         M170         M220         SEVERAL         M170         M220         SEVERAL         K14         CHERTY         K15         K2         M170         M220         SEVERAL         M170         M220         SEVERAL         M220         SEVERAL         M220         SEVERAL         M220         SEVERAL         M220         SEVERAL         M220         SEVERAL         M220         M220         SEVERAL         M220         SEVERAL         NSA         SENERE         NS0A         M30A	DBOTHM140 (circle one) > 'UNITS M161 < SHAFTS ON ROYAL SHAFTS ON ROYAL MARBLE, MASSIVE 	TION OF WORKINGS <sup>o</sup> overall length M190 · overall width M200 · overall area M210 CLAIM ; EXTENT OF DEVELO GEOLOGY LIMESTONE T TRACHYTE TUFFS OF I ES ; TREMOLITE ; DIOPSIDE PLACEMENT BODIES ALONG HINGTON - DUQUESNE AREA FAULT ZONE ; WASHINGTON J SONANZA FAULT BY TEXPS F MESTONE CONTACT METAMO			

GENERAL COMMENTS GEN

tite.

	ADMAR FUE DAT	E DATA		
		A, ROYAL PROSPEC		
1		MINING SHEET 727		
REFERENCE 4 FA	<u>ABGMT FILES, S</u>	STANTON B. KEITH		· · · · · · · · · · · · · · · · · · ·
		·		
E	UNIVERSITY OF	DUQUESNE DISTRICT ARIZONA p. 1210-1 C., 1915, USGS BULL	EOLOGY AND PYRI SANTA CRUZ COU 43 MAPS > 582, p. 335-33	and the second
ע <u>ר &gt; א</u> ער	TTING PYROMETAN R-TRI VOLCANICE	NORPHOSED LIMEST	DNE, NEAR CONT	ACT ON EAST OF LIMESTONE WITH
N5 < SE Wh	DIMENT BELT (2. ICH ALSO FORM D	5 MILES LONG AND DETACHED MASSES	AND DIKES WITHIN	DE) SURROUNDED BY IGNEOUS ROCKS
N15 < W.	EST AND DOWNTI	HROWN DUQUESNE	FAULT BLOCK TO	EAST >
NTOCPI	ROSPECT >			
N80< OF	VOLCANICS >			
				· · · · · · · · · · · · · · · · · · ·
		Con es 1913 : 1995 : 1995	्रिस्ट स्टब्स् (१२) इ.स.२.४१२	48. V. Januari and M. M. Martin and M
		- Stran Chine Odži	ANTSWE TENSIN UN	ano Marine Classing of Alaka
			JULCE MURKNACZ	
			service and the original second second second	
		and the second	Lenning and the second second	the second se
		U.S. CR	B-SITE FORM	
		RECORD	IDENTIFICATION	¢
RECORD NUMBER	в10:< <u></u> > с1 < <u>8,2.⊁0,5</u> ,>	RECORD	IDENTIFICATION	¢
REPORT DATE	GI (82,805,) YR. MO. R)G2 ( <u>CALDER. SUS</u> )	RECORD RECORD TYPE B20 کریک INFORMATION SOURCE B30 کریک	IDENTIFICATION	
REPORT DATE	G1 < <u>B2, FOG</u> YR. MO. R)G2 < <u>CALDER, SUS</u> (last, first, middle initial)	RECORD RECORD TYPE B20 کریک INFORMATION SOURCE B30 کریک	IDENTIFICATION	© DEPOSIT NUMBER В40 < <sup>1</sup> FILE LINK IDENT: В50 < <u>USBM-004023</u> е initial)
REPORT DATE	GI (82,805,) YR. MO. R)G2 ( <u>CALDER. SUS</u> )	RECORD RECORD TYPE B20 کریک INFORMATION SOURCE B30 کریک	IDENTIFICATION	DEPOSIT NUMBER 840 < *FILE LINK IDENT: 850 < <u>USBM-004023</u>
REPORT DATE REPORTER(SUPERVISO REPORTER AFFILIATIO	G1 < <u>82, ¥06,</u> VR. MO. R) G2 < <u>CALDER, SUS</u> (last, first, middle initial) N G5 < <u>ABG/MT</u>	RECORD *RECORD TYPE B20 <_X *INFORMATION SOURCE B30 <_L AN R	IDENTIFICATION	T DEPOSIT NUMBER: B40 < <sup>1</sup> FILE LINK IDENT: B50 < <u>USBM-004023</u> e-initial)
REPORT DATE REPORTER(SUPERVISO REPORTER AFFILIATIO SYNONYMS MINING DISTRICT/ARE	G1 $\langle \underline{82, \underline{\#06}}, \underline{N0}, \underline$	RECORD RECORD TYPE B20 <br INFORMATION SOURCE B30 <br AN R LC CAMP DISTRICT	IDENTIFICATION	DEPOSIT NUMBER: 840 TELE LINK IDENT: 850< USBM-004023 e Initial) AL AND DEER HORN PROSPECTS
REPORT DATE REPORTER(SUPERVISO REPORTER AFFILIATION SYNONYMS MINING DISTRICT/ARE COUNTY HYSIOGRAPHIC PROV	G1 < <u>82, 1406</u> , VR. MO. R)G2 < <u>CALDER, SUS/</u> (last, first, middle initial) N G5 < <u>ABG/MT</u> A11 < A11 < A30 < <u>MASHINGTON</u> A60 < <u>SANTA CRU</u> , A63 < <u>1,2,14</u> ,	RECORD *RECORD TYPE B20 <_L *INFORMATION SOURCE B30 <_L AN R LC D CAMP DISTRICT	IDENTIFICATION	DEPOSIT NUMBER: B40 < 'FILE LINK IDENT: B50 < USBM-00402.3 e-Initial) AL AND DEER HORN PROSPECTS ATE A50 < ALZ.)
REPORT DATE REPORTER(SUPERVISO REPORTER AFFILIATION SYNONYMS MINING DISTRICT/ARE	$c_{1} < \underbrace{82.1.06}_{VR} \\ \xrightarrow{VR} \\ MO. \\ MO. \\ (loss, first, mickele initial) \\ M G5 < \underline{ABGMT} \\ A11 < \underline{A30} < \underline{MASHIMGTOM} \\ A60 < \underline{SAMTACRU} \\ A60 < \underline{SAMTACRU} \\ A63 < \underline{L2,14}, \\ A62 < \underline{L505,030,11} \\ \end{array}$	RECORD RECORD TYPE B20 <br INFORMATION SOURCE B30 <br AN R LC CAMP DISTRICT	IDENTIFICATION	DEPOSIT NUMBER: 840 < 'FILE LINK IDENT: 850 < USBM-00402.3 • Initial) AL AND DEER HORN PROSPECTS ATE A50 < ALZ.> *COUNTRY: A40 < U.S TAND STATUS: A64 < 4.1.1.16;16.(.1.9.7.97.)
REPORT DATE REPORTER (SUPERVISO REPORTER AFFILIATION SYNONYMS WINING DISTRICT/ARE COUNTY HYSIOGRAPHIC PROM DRAINAGE AREA RUADRANGLE NAME RECOND QUAD NAME	G1 $\langle \underline{B2, \underline{FOB}} \rangle$ $\forall R$ MO $\forall R$ MO $R$ G2 $\langle \underline{CALDER, \underline{SUS}} \rangle$ (last, first, middle initial) N G5 $\langle \underline{ABGMT} \rangle$ A11 $\langle \underline{SANTA CRIJ} \rangle$ A50 $\langle \underline{SANTA CRIJ} \rangle$ A60 $\langle \underline{SANTA CRIJ} \rangle$ A62 $\langle \underline{LSQS, \underline{QQI}} \rangle$ A90 $\langle \underline{LOCHIEL} \rangle$ A92 $\langle \underline{HRSHAW} \rangle$	RECORD *RECORD TYPE B20 < L *INFORMATION SOURCE B30 < L AN R LC CAMP DISTRICT 2 *1 LOWER COLORPIX	IDENTIFICATION	DEPOSIT NUMBER: 840 < 'FILE LINK IDENT: 850 < USBM-00402.3 e-initial) AL AND DEER HORN PROSPECTS ATE A50 < (ALZ) COUNTRY A40 < U.S COUNTRY A
REPORT DATE REPORTER (SUPERVISO REPORTER AFFILIATION SYNONYMS MINING DISTRICT/ARE COUNTY PHYSIOGRAPHIC PROV DRAINAGE AREA QUADRANGLE NAME ECOND QUAD NAME LEVATION	G1 $\langle \underline{82}, \underline{k}, \underline{0}, \underline{6}_{1} \rangle$ $\forall R$ MO. $\forall R$ MO. (last, first, middle initial) N G5 $\langle \underline{ABGMT}$ A11 $\langle \underline{A30} \langle \underline{MASHIMGTOK}$ A60 $\langle \underline{SAMTA}, \underline{CRM}$ A60 $\langle \underline{SAMTA}, \underline{SMTA}, \underline{CRM}$ A60 $\langle \underline{SAMTA}, \underline{SMTA}, \underline{CRM}$ A60 $\langle \underline{SAMTA}, \underline{SMTA}, $	RECORD *RECORD TYPE B20 < L *INFORMATION SOURCE B30 < L AN R LC D CAMP DISTRICT 2 F. LOWER COLORADO	IDENTIFICATION	DEPOSIT NUMBER: 840 PILE LINK IDENT: 850 (JSBM-00402.3) (Initial) ALL AND DEER HORN PROSPECTS COUNTRY A40 (J.S COUNTRY A
REPORT DATE REPORTER(SUPERVISO REPORTER AFFILIATION SYNONYMS MINING DISTRICT/ARE COUNTY PHYSIOGRAPHIC PRO DORAINAGE AREA QUADRANGLE NAME ACOND QUAD NAME LEVATION JTM NORTHING A122	G1 $\langle \underline{82}, \underline{\mu}, \underline{0}, \underline{6}, \rangle$ R) G2 $\langle \underline{CALDER}, \underline{5}, \underline{5}, \underline{5}, \underline{6}, \rangle$ (last, first, middle initial) N G5 $\langle \underline{ABGMT}$ A11 $\langle \underline{5}, \underline{ABGMT}, \underline{6}, \underline{5}, \underline{5}, \underline{6}, \underline{6},$	RECORD RECORD TYPE B20 (X INFORMATION SOURCE B30 (L) AN R LC CAMP DISTRICT CAMP DISTRICT CAMP DISTRICT CAMP DISTRICT CAMP DISTRICT CAMP DISTRICT COLORADO	IDENTIFICATION	DEPOSIT NUMBER: 840          *THE LINK IDENT:         860          # IDENT:         850          9 INMOID         AL AND DEER HORN PROSPECTS         ATE A50          COUNTRY A40          U.S         SECOND QUAD SCALE A91          SECOND QUAD SCALE A91          GEODETIC         CATITUDE A70          M.C.CCA
REPORT DATE REPORTER (SUPERVISO REPORTER AFFILIATION SYNONYMS MINING DISTRICT/ARE COUNTY HYSIOGRAPHIC PRO DRAINAGE AREA QUADRANGLE NAME LEVATION JTM NORTHING A120 EASTING A130 ZONE NUMBER A110	G1 $\langle \underline{82}, \underline{\mu}, \underline{0}, \underline{6}, \rangle$ R) G2 $\langle \underline{CALDER}, \underline{5}, \underline{5}, \underline{5}, \underline{6}, \rangle$ (last, first, middle initial) N G5 $\langle \underline{ABGMT}$ A11 $\langle \underline{5}, \underline{ABGMT}, \underline{6}, \underline{5}, \underline{5}, \underline{6}, \underline{6},$	RECORD RECORD TYPE B20 (X INFORMATION SOURCE B30 (L) AN R LC CAMP DISTRICT CAMP DISTRICT CAMP DISTRICT CAMP DISTRICT CAMP DISTRICT CAMP DISTRICT COLORADO	IDENTIFICATION: .1.M.> .2	DEPOSIT NUMBER: 840          *THE LINK IDENT:         860          #ILE LINK IDENT:         850          #ILE AND DEER HORN PROSPECTS         ATE A50          #ILE A50
REPORT DATE REPORTER (SUPERVISO REPORTER AFFILIATION SYNONYMS MINING DISTRICT/ARE COUNTY HYSIOGRAPHIC PROM DRAINAGE AREA QUADRANGLE NAME ECOND QUAD NAME LEVATION JTM NORTHING A120 ZONE NUMBER A110 CADASTRAL TOWNSHIP(S)	G1 $\langle \underline{82}, \underline{\mu}, \underline{0}, \underline{6}_{1} \rangle$ R) G2 $\langle \underline{CALDER}, \underline{5}, \underline{0}, \underline{5} \rangle$ (lest, first, middle initial) N G5 $\langle \underline{ABGMT}$ A11 $\langle \underline{6}, \underline{ABGMT}, \underline{6}, 6$	RECORD RECORD TYPE B20 < L INFORMATION SOURCE B30 < L AN R LC D CAMP DISTRICT C M. LOWER COLORADO ACCURACY DI ON VION ACCURACY	IDENTIFICATION: .1.M.> .2	DEPOSIT NUMBER B40 $<$ 'FILE LINK IDENT. B50 $<$ $U \le BM - OO U O \ge 3$ • initial) ALL AND DEER HORN PROSPECTS ATE A50 $< AD \ge$ $COUNTRY A40 < U \le 5$ TAND STATUS A64 $< 4 \le 1 \le 5 \le 1 \le 1$
REPORT DATE REPORTER (SUPERVISO REPORTER AFFILIATION SYNONYMS AINING DISTRICT/ARE COUNTY HYSIOGRAPHIC PROV MAINAGE AREA RUADRANGLE NAME ECOND QUAD NAME LEVATION JTM JTM ANORTHING A120 CADASTRAL COM STRAL COM SING S	$G_{1} \langle \underline{B2}, \underline{FO}, \underline{B}_{N} \rangle \\ \forall R MO \\ \langle \underline{CALDER}, \underline{SUS}_{I} \rangle \\ \langle (last, first, middle initial) \\ \land (last, first, middle initial) $	RECORD RECORD TYPE B20 < L INFORMATION SOURCE B30 < L AN R LOWER COLORADO *ACCURACY DISTRICT ACCURACY DISTRICT ACCURACY DISTRICT MIN ESTIMATED (ST) ( LSED A BLM: DISTRICT MIN , K,	IDENTIFICATION	DEPOSIT NUMBER: 840 $<$ 'FILE LINK IDENT: 850 $<$ $U \le BM - 00402.3$ e-initial) ALL AND DEER HORN PROSPECTS ATE A50 $< ALZ$ . TAND STATUS: A64 $< 4.1.1.2.1.2.400$ TAND STATUS: A64 $< 4.1.1.2.1.2.400$ SECOND QUAD SCALE A91 $< 2.4000$ SECOND QUAD SCALE A91 $< 2.4000$
REPORT DATE REPORTER (SUPERVISO REPORTER AFFILIATION SYNONYMS MINING DISTRICT/ARE COUNTY HYSIOGRAPHIC PROV PAINAGE AREA QUADRANGLE NAME LEVATION JTM NORTHING A120 CADASTRAL COM NUMBER A110 CADASTRAL TOWNSHIP(S) SECTION(S)	G1 $\langle \underline{82}, \underline{k}, \underline{0}, \underline{6}_{1} \rangle$ WR G2 $\langle \underline{CALDER}, \underline{5}, \underline{0}, \underline{5}_{1} \rangle$ (last, first, middle initial) N G5 $\langle \underline{ABGMT}$ A11 $\langle \underline{6}, \underline{5}, \underline{1}, \underline{5}, \underline{6}, \underline{6}, \underline{5}, \underline{6}, 6$	RECORD RECORD TYPE B20 < L INFORMATION SOURCE B30 < L AN R LOWER COLORADO *ACCURACY DISTRICT ACCURACY DISTRICT ACCURACY DISTRICT MIN ESTIMATED (ST) ( LSED A BLM: DISTRICT MIN , K,	IDENTIFICATION: .1.M.> .2	DEPOSIT NUMBER B40 $<$ 'FILE LINK IDENT. B50 $<$ $U \le BM - OO U O \ge 3$ • initial) ALL AND DEER HORN PROSPECTS ATE A50 $< AD \ge$ $COUNTRY A40 < U \le 5$ TAND STATUS A64 $< 4 \le 1 \le 5 \le 1 \le 1$
REPORT DATE REPORTER (SUPERVISO REPORTER AFFILIATION SYNONYMS MINING DISTRICT/ARE COUNTY HYSIOGRAPHIC PROV MAINAGE AREA 2000 QUAD NAME LEVATION JTM NORTHING A122 CADASTRAL TOWNSHIP(S) SECTION (S) SECTION FROM NEA LOCATION COMMENT	G1 $\langle \underline{82}, \underline{k}, \underline{0}, \underline{61} \rangle$ $\forall R$ MO R) G2 $\langle \underline{CALDER}, \underline{5US}_{IR}, \underline{60} \rangle$ $\langle last, first, middle initial)$ N G5 $\langle \underline{ABGMT}$ A11 $\langle \underline{ABGMT}, ABGMT$	RECORD RECORD TYPE B20 < L INFORMATION SOURCE B30 < L AN R LOWER COLORADO ACCURACY DI ONION ACCURACY DI ONIONION ACCURACY DI ONION ACCURACY DI ONIONION ACCURACY DI ONIONIONION ACCURACY DI ONIONIONION ACCURACY DI ONIONIONION ACCURACY DI ONIONIONION ACCURACY DI ONIONIONION ACCURACY DI ONIONIONION ACCURACY DI ONIONIONIONIONIONIONIONIONIONIONIONIONIO	IDENTIFICATION: .1.M.> .2	DEPOSIT NUMBER: 840          *THE LINK IDENT:         \$650 < USBM-00402.3
EPORT DATE EPORTER (SUPERVISO EPORTER AFFILIATION YNONYMS UNING DISTRICT/ARE OUNTY HYSIOGRAPHIC PROV RAINAGE AREA UADRANGLE NAME ECOND QUAD NAME EVATION JITM ICORTHING A120 ASTING A130 CONE NUMBER A110 CADASTRAL OWNSHIP(S) ECTION (S) ECTION FRACTION(S) ECTION FROM NEA OCATION COMMENT <u>B C N JAA</u>	G1 $\langle \underline{82}, \underline{k}, \underline{0}, \underline{61} \rangle$ $\forall R. MO.$ R) G2 $\langle \underline{CALDER}, \underline{5US}, (las, first, middle initial)$ N G5 $\langle \underline{ABGMT}$ A11 $\langle \underline{A30}, \underline{MASHINGTON}$ A53 $\langle \underline{J2}, \underline{k}, K$	RECORD RECORD TYPE B20 (X INFORMATION SOURCE B30 (L) AN R LOWER COLORADO CAMP DISTRICT CAMP DISTRICT CAMP DISTRICT ACCURACY DI OSVIION ACCURACY DI	IDENTIFICATION: .1.M.> .2	DEPOSIT NUMBER: B40          *THE LINK IDENT:         BS0< USBM-004023

## DEPARTMENT OF MINERAL RESOURCES STATE OF ARIZONA FIELD ENGINEERS REPORT

Mine	Roya1	Jate Ja	anuary 5, 1967
District	Duquesne- Santa Cruz County	Engineer	G. W. Irvin
Subject:	Mine Report- Information from Don Gilbe	rt.	Visit to mine by Engineer.
		С.	

See report of September 8th by G. W Irvin.

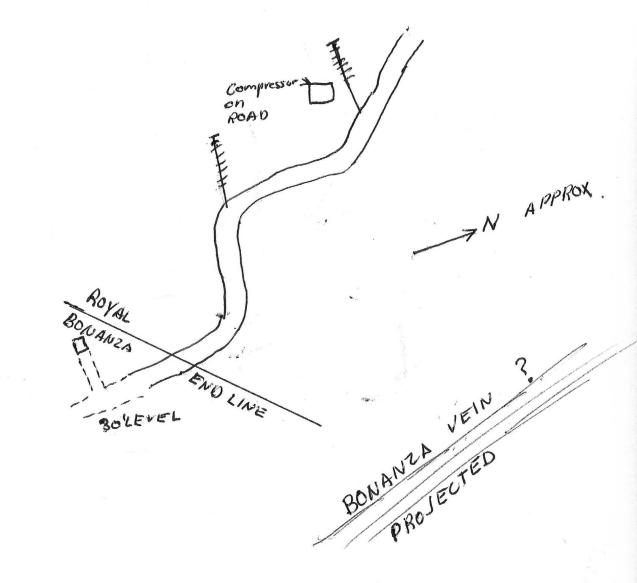
ŝ.

Below is a copy of a sketch from Mr. Gilbert's field sheets.

Some of the ore runs 15%PB 20%Zn 3%Cu & 10-120z Ag . The grade a widthd are varible. The total drifting as of this date is about 90°. The ore zone is about 12° wide.

Mr. Gilbert hopes to lease to a good small leaser or operator.

If it exists, the Bonanza vein should be about 50 or 60 feet east of the drift.



## DEPARTMENT OF MINERAL RESOURCES STATE OF ARIZONA FIELD ENGINEERS REPORT

Oct. 9, 1952, Mine Royal Mine Date Engineer Axel L. Johnson District Duquesne District, Santa Cruz County Subject: Mine Report. Source of Information ---- D. C. Gilbert, Patagonia, Ariz. Location Near Washington Camp Two unpatented claims Number of Claims Mrs. D. C. Gilbert, Patagonia, Ariz. Purchased the claims from Hugo W. Miller about a year ago. Owner D. C. Gilbert Operator Zinc and Lead Principal Minerals Number of Men Working Intermittent work diamond drilling. Mine being developed by diamond drilling. Ore Production None. None, except assessment work of shallow workings. Mine Workings

Present Operations Diamond drilling from the bottom of a 20 ft. incline. Working on Hole # 8 now. 7 holes previously drilled average in depth about 75 ft. They dip from 10 degrees to 60 degrees.

Results Still inconclusive. No findings reported as yet.

## DEPARTMENT OF MINERAL RESOURCES STATE OF ARIZONA OWNERS MINE REPORT

Geology & Mineralization

Date June 22, 1939

Mine	Royal	egailt	Ore: Positive & Probable, Ore Dumps Ta
District	Duquesne - Santa Cruz	Location	22 mi E from Nogales
Former name			18 mi S Patagonia
Owner	Hugo W. Miller	Address	Nogales
Operator	n	Address	
President		Gen. Mg	r.
Mine Supt.		Mill Supt	Road Conditions, Route
Principal Met	als Calcite 97%	Men Emp	
Production Ra	ate	Mill: Typ	be & Cap.
Power: Amt.	& Туре		Water Supply
Operations: F	Present Assessment work Drive tunne	l & find	
	OLooks like it is larg	çe ·	
			Baiol History
Operations Pl	anned Grinds to perfect white pow	nd <b>er</b>	
	Paint pigment?		Special Problems, Reports Filed
Number Clain	ns, Title, etc. 1 unpatented		

editeres?

Description: Topog. & Geog.

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

Mine Workings: Amt. & Condition

beng

(over)

sheets if necessary

## Geology & Mineralization

CHARTMENT OF MINERAL RESOURC STATE OF AREONA OWNERS MINE REPORT

Date June 22, 1929

Ore: Positive & Probable, Or	e Dumps, Tailings	Mine Royal
as Lanol der	Locution 22 of 11 f	District Buqueque - Cause Gras
	je iz si	Former name
Mine, Mill Equipment & Flow	Sheet	Owner Hugo W. Miller
Nine, win Equipment & How	semble A	Operator n
	Can, Mar	President
Road Conditions, Route	Mill Sept.	Mine Supt.
Road Conditions, Route	Mee Employed	Principal Metals Cololto 976
	Mill: Type & Cap.	Production Rate
Water Supply		Power: Amt. & Type
water Supply	uttiv ball a legand ov	Operations: Present Assessment with Stri
		SLORE Like it
Brief History		Operations Planned Grindo to perfort w

Special Problems, Reports Filed

Number Claims, Title, etc. I unpabented

## Remarks

Description: Topog. & Geog.

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

Mine Workings; Anat. & Conduiton

Signed.....

Use additional sheets if necessary.

(auto)

