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Arizona Geological Survey
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inquiries@azgs.az.gov

The following file is part of the

Arizona Department of Mines and Mineral Resources Mining Collection

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PRINTED: 08/02/2001

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: GRAND PRIZE

ALTERNATE NAMES:

PINAL COUNTY MILS NUMBER: 412

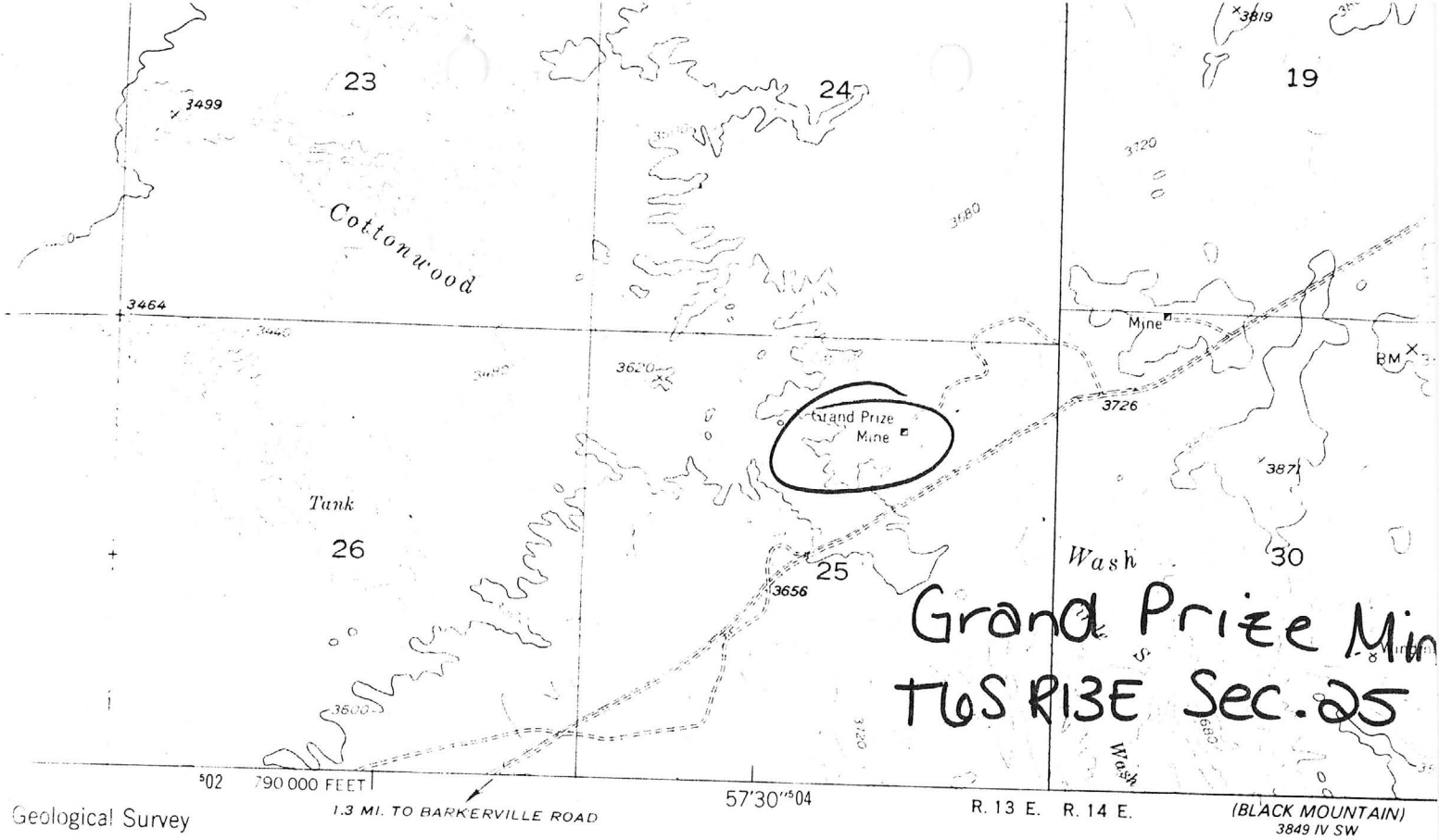
LOCATION: TOWNSHIP 6 S RANGE 13 E SECTION 25 QUARTER NE
LATITUDE: N 32DEG 53MIN 09SEC LONGITUDE: W 110DEG 57MIN 11SEC
TOPO MAP NAME: CROZIER PEAK - 7.5 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:
GOLD

BIBLIOGRAPHY:
ADMMR GRAND PRIZE MINE FILE

PRINAME			NUMBER	FILE	CONT	CONT1			
GRAND PRIZE			**412**	**F**	**0**	**N**			
ALTNAME1			ALTNAME2						
ALTNAME3			ALTNAME4						
ALTNAME5			ALTNAME6						
CURSTAT		MNAME				NLATDEG	NLATMIN		
PAST PRODUCER		**CROZIER PEAK - 7.5 MIN**				**32**	**53**		
NLATSEC	WLONGDEG	WLONGMIN	WLONGSEC	TOWN	RANGE	SECTION	QUARTER	COM1	
09	**110**	**57**	**11**	**6 S**	**13 E**	**25**	**NE**	**AU**	
MODI1	COM2	MODI2	COM3	MODI3		COM4	MODI4		
COM5	MODI5	COM6	MODI6	COM7	MODI7				
BIB1									
ADMMR GRAND PRIZE MINE FILE									
BIB2									
BIB3									
BIB4									



Grand Prize Min
T6S R13E Sec. 25

Geological Survey

SCALE 1:24 000

1 ½ 0

1000 0 1000 2000 3000 4000

1 .5 0

...plex methods
... 1949

...datum
...system,

...ndoned
...ficks.

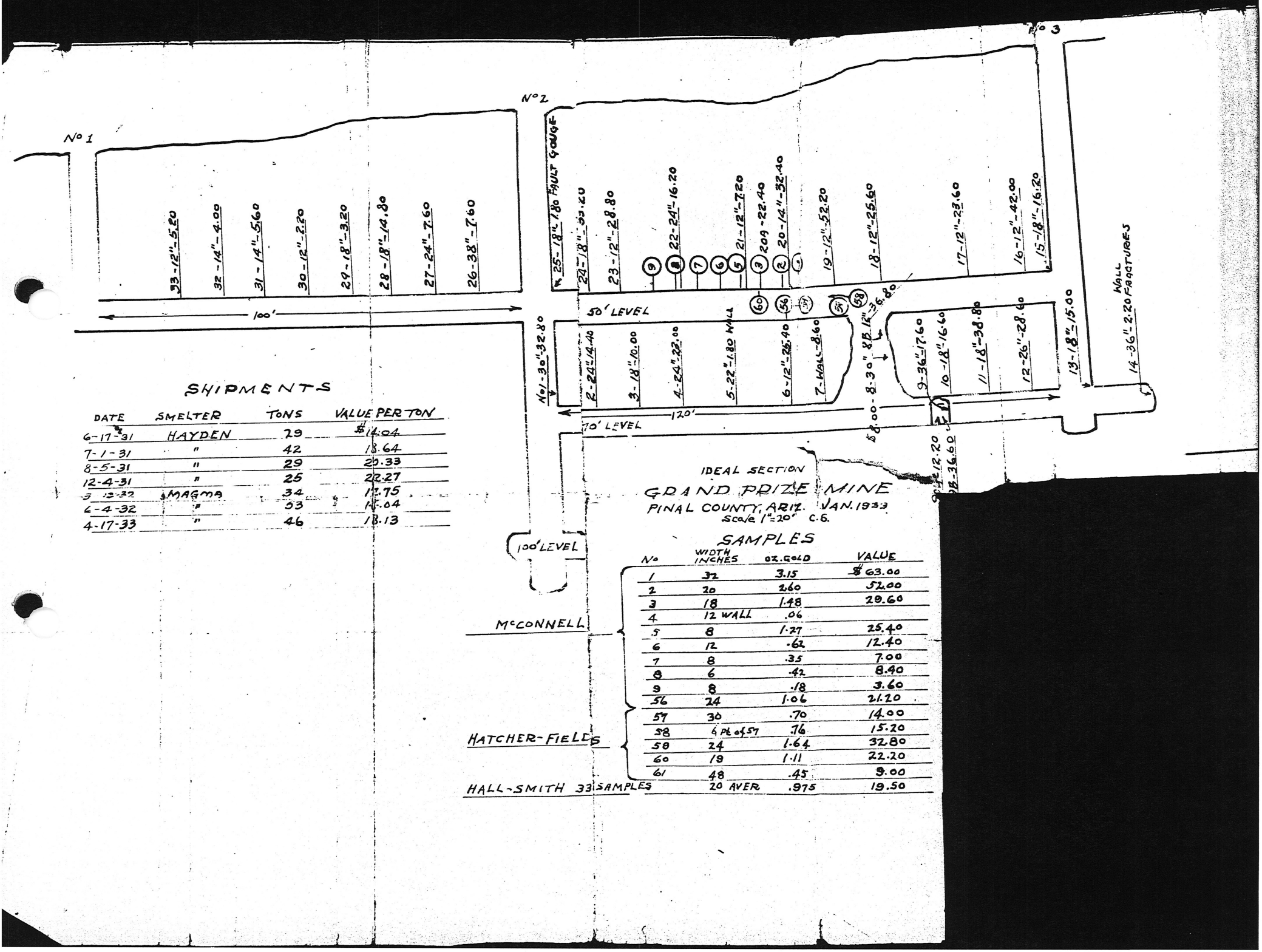
GN MN
0°02'
1 MIL
13½
240 MILS

UTM GRID AND 1949 MAGNETIC NORTH
DECLINATION AT CENTER OF SHEET

Crozier Peak 7.5'

CONTOUR INTERVAL 40 FE
NATIONAL GEODETIC VERTICAL DATUM

THIS MAP COMPLIES WITH NATIONAL MAP AC
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBO



IDEAL SECTION

GRAND PRIZE MINE

PINAL COUNTY, ARIZ. JAN. 1933

Scale 1"=20' C.G.

SHIPMENTS

DATE	SMELTER	TONS	VALUE PER TON
6-17-31	HAYDEN	29	$14.04
7-1-31	"	42	18.64
8-5-31	"	29	20.33
12-4-31	"	25	22.27
5-12-32	MAGMA	34	17.75
6-4-32	"	33	14.04
4-17-33	"	46	18.13

SAMPLES

	No	WIDTH INCHES	OZ. GOLD	VALUE
McCONNELL	1	32	3.15	$63.00
	2	20	2.60	52.00
	3	18	1.48	29.60
	4	12 WALL	.06	
	5	8	1.27	25.40
	6	12	.62	12.40
	7	8	.35	7.00
	8	6	.42	8.40
	9	8	.18	3.60
HATCHER-FIELDS	56	24	1.06	21.20
	57	30	.70	14.00
	58	4 Pt of 57	.76	15.20
	59	24	1.64	32.80
	60	19	1.11	22.20
	61	48	.45	9.00
HALL-SMITH	33 SAMPLES	20 AVER	.975	19.50

GRAND PRIZE MINE

PINAL COUNTY
HORSERANCH DISTRICT
T6S R13S Sec. 25

MILS Pinal County Index #412

Crozier Peak 7.5' Topo (included in files)

RH

*GENERAL REFERENCES

REFERENCE 1 F1 <ADMR GRA[illegible]ZE FILE>

REFERENCE 2 F2 <USBM FILE DATA CLUSTER #1216>

REFERENCE 3 F3 <AB6MT-USBM FILE DATA>

REFERENCE 4 F4 <ROLAND J. SCHWARTZ, 1954. GENERAL RECONNAISSANCE OF THE CENTRAL TORTILLA MOUNTAINS, PINAL COUNTY, ARIZONA. UNIV OF ARIZONA M.S. THESIS>

#412

U.S. CRIB-SITE FORM

RECORD IDENTIFICATION

*RECORD NUMBER B10 <>
*RECORD TYPE B20 <X,1,M>
DEPOSIT NUMBER B40 <>
*REPORT DATE G1 <8,2,0,4> YR. MO.
*INFORMATION SOURCE B30 <1,2>
*FILE LINK IDENT. B50 <USBM-0040210486>

*REPORTER(SUPERVISOR) G2 <GEST, DON E.> (last, first, middle initial) ( ) (last, first, middle initial)

*REPORTER AFFILIATION G5 <AB6MT>
*SITE NAME A10 <GRAND PRIZE MINE>
*SYNONYMS A11 <GRAND VIEW>

LOCATION

*MINING DISTRICT/AREA A30 <HORSERANCH DISTRICT>
*COUNTY A60 <PINAL COUNTY>
*STATE A50 <A,Z,>
*COUNTRY A40 <U,S,>
*PHYSIOGRAPHIC PROV A63 <1,2,>
*DRAINAGE AREA A62 <1,5,0,5,0,1,0,0,>
*LAND STATUS A64 <4,9,> (1,9,7,9,)
*QUADRANGLE NAME A90 <CROZIER PEAK QUADRANGLE> (1,9,5,0,)
*QUADRANGLE SCALE A100 <2,4,0,0,0,>
SECOND QUAD NAME A92 < > ( )
SECOND QUAD SCALE A91 <>
*ELEVATION A107 <3,6,8,0,F,T,>

UTM
*NORTHING A120 <3,8,6,0,1,8,6,>
*EASTING A130 <5,0,4,2,8,9,>
*ZONE NUMBER A110 <+,1,2,>

*ACCURACY
ACCURATE ACC (circle)
ESTIMATED (EST) <UTM NOT ON QUAD. UTM COMPUTED FROM LONG. AND LAT. MEASUREMENTS>

GEODETIC
*LATITUDE A70 < - - N>
*LONGITUDE A80 < - - W>

CADASTRAL
TOWNSHIP(S) A77 <0,0,6,S,>
*RANGE(S) A78 <0,1,3,S,>
SECTION(S) A79 <25>
SECTION FRACTION(S) A76 <NW OF NE>
MERIDIAN(S) A81 <GILA AND SALT RIVER>

POSITION FROM NEAREST PROMINENT LOCALITY A82 <4 MILES SOUTH OF RIPSEY HILL.>
LOCATION COMMENTS A83 <1¼ MILES SOUTH OF TECOLOTE RANCH.>

ESSENTIAL INFORMATION
ESSENTIAL SOMETIMES OR HIGHLY RECOMMENDED

COMMODITY INFORMATION

*COMMODITIES PRESENT C10: C.U. & A.U.
*ORE MINERALS C30: CHALCOPYRITE, FREE GOLD
COMMODITY SUBTYPES C41:
*GEN. ANALYTICAL DATA C43:
COM. INFO. COMMENTS C50:

* SIGNIFICANCE

		PRODUCER	NON-PRODUCER
MAJOR PRODUCTS	MAJOR	C.U.	MAIN COMMODITIES PRESENT C11:
MINOR PRODUCTS	MINOR	A.G. A.U.	MINOR COMMODITIES PRESENT C12:
POTENTIAL PRODUCTS	POTEN		
OCCURRENCES	OCCUR		OCCURRENCES OCCUR:

*PRODUCTION

PRODUCER	NON-PRODUCER
PRODUCTION (YES) (circle) PRODUCTION SIZE (SML) MED LGE (circle one)	PRODUCTION UND NO (circle one)

EXPLORATION OR DEVELOPMENT

*STATUS

PRODUCER	NON-PRODUCER
STATUS AND ACTIVITY A20: 4	STATUS AND ACTIVITY A20:

*DISCOVERER L20:
*YEAR OF DISCOVERY L10: *NATURE OF DISCOVERY L30: B *YEAR OF FIRST PRODUCTION L40: 1931 *YEAR OF LAST PRODUCTION L45: 1954
*PRESENT/LAST OWNER A12:
*PRESENT/LAST OPERATOR A13:
EXPL./DEV.COMMENTS L110: OPERATORS INCLUDED: E.H. MOORES AND SONS; W.C. BEST; ORVAL CORMAN, 54; CHAS. S. BOOTH; WM. G. FOX, 1936; G.H. NUMEYER, 1935.

DESCRIPTION OF DEPOSIT

*DEPOSIT TYPE(S) C40: VEIN
DEPOSIT FORM/SHAPE M10: TABULAR
*DEPTH TO TOP M20: *UNITS M21: *MAXIMUM LENGTH M40: *UNITS M41:
*DEPTH TO BOTTOM M30: *UNITS M31: *MAXIMUM WIDTH M50: *UNITS M51:
*DEPOSIT SIZE M15 (SMALL) M15 MEDIUM M15 LARGE (circle one) *MAXIMUM THICKNESS M60: *UNITS M61:
*STRIKE M70: N 57 E *DIP M80: 83 SE
*DIRECTION OF PLUNGE M100: *PLUNGE M90:
*DEP. DESC. COMMENTS M110: MANY VEINS AND STREAKS WIDEST IS ABOUT 3 FT WIDE

DESCRIPTION OF WORKINGS

*Workings are: SURFACE M120 UNDERGROUND (M130) BOTH M140 (circle one)
*DEPTH BELOW SURFACE M160: *UNITS M161: *OVERALL LENGTH M190: *UNITS M191:
*LENGTH OF WORKINGS M170: *UNITS M171: *OVERALL WIDTH M200: *UNITS M201:
DESC. OF WORK. COM. M220: 3 SHAFTS, 1-50 FT DEED, 1-100 FT DEEP, 1-90 FT DEEP; 2 ADITS, 1 AT 50 FT LEVEL, 200 FT IN LENGTH; 1 AT 90 FT LEVEL, 120 FT IN LENGTH. *OVERALL AREA M210: *UNITS M211:

GEOLOGY

*AGE OF HOST ROCK(S) K1: PREC.
*HOST ROCK TYPE(S) K1A: GRANITE
*AGE OF IGNEOUS ROCK(S) K2:
*IGNEOUS ROCK TYPE(S) K2A:
*AGE OF MINERALIZATION K3: L.CRET.-TERT.
*PERT. MINERALS (NOT ORE) K4: QUARTZ, PYRITE
*ORE CONTROL/LOCUS K5:
*MAJ. REG. TRENDS/STRUCT. N5: NNW TRENDING THRUST FAULTING THROUGH AREA - MAIN ONE RIPSEY WASH FAULT 1 MILE EAST
*TECTONIC SETTING N15:
*SIGNIFICANT LOCAL STRUCT. N70: CRET-TERT ENE TRENDING HORNBLENDE PORPHYRY DIKES 1/2 MILE SOUTH AND SW
*SIGNIFICANT ALTERATION N75:
*PROCESS OF CONC./ENRICH. N80:
*FORMATION AGE N30: PREC.
*FORMATION NAME N30A: RUIN GRANITE
SECOND FM AGE N35:
SECOND FM NAME N35A:
*IGNEOUS UNIT AGE N50:
*IGNEOUS UNIT NAME N50A:
SECOND IG. UNIT AGE N55:
SECOND IG. UNIT NAME N55A:
GEOLOGY COMMENTS N85: MINERALIZATION ASSOCIATED WITH CRET-TERT INTRUSIVE PERIOD - EASTERLY STRIKING FAULTS AND SHEARS THROUGHOUT AREA.

GENERAL COMMENTS

GENERAL COMMENTS GEN:

G-4 MMK 141
f. 6

10.0 x 7.0 x 8.0

MINERAL SPECIMEN FOR DEPARTMENT OF LIBRARY AND ARCHIVES wr 1 lb 4 g

(Do not write in this space)

Ore _____

Cabinet _____

No. _____

(Wrap each specimen separately, or place it in a substantial bag, by itself, with a number attached, identical with the number on this card.)

5/15-40

Specimen No. 37, collected by Newton Wolcott
Field Engineer

Name of ore Gold

Minerals contained Gold and wulfenite

Gangue Quartz

Depth at which taken 70 foot level

Approximate mineral content (in terms of average per ton) This specimen has been assayed and runs $ 125 per ton in gold.

Name of mine or claim Grand Prize

Group Grand Prize

District Cottonwood Mining District

Location (distance and direction by highway from what town 32 Mi. East of Florence

Owner of property Chas. Niemeyer

Operator None

Mine active or inactive Inactive

If inactive, when operated Not recently

Specimen presented by M. J. Connor

Date March 31, 1940.

Notes (Any general information regarding the history of the property.) The property has been held since 1893 by the same owner, who will permit no mining operations. Leasers at one time almost ruined the workings, and since then nobody has been allowed to mine any ore here. There is considerable ore like this in sight.

If more space is desired for notes, use other side.

This specimen is now in the ADMR Museum (see K number).

CHARLES H. DUNNING
MINING ENGINEER

ROUTE NO. 1
PHOENIX, ARIZONA

Sept 10th, 1940

Mr. L. N. Duryea & Thomas H. Sheridan,
135 So LaSalle St., Chicago, Ill.

Gentlemen:-

At the request of Mr. F. C. Merrell of Florence Ariz I have made a check examination of the Grand Prize Mine located 30 miles southeast of Florence.

This mine has been examined and thoroughly sampled by competent engineers, the most recent being an examination and report by Mr. Tenney of Tucson in May 1940. As these reports are available to you and you are familiar with them it seemed a useless duplication of work to do more than check the estimates of value and tonnage and data effecting the immediate profit and the economics of the present contemplated deal.

Mr. Tenny's samples averaged $16.00 and were evidently conservatively taken. As the width of his sample cuts was always well into the walls I do not believe it is necessary to allow any further factor to cover ore dilution in mining. Mr Tenny's estimate of tonnage developed is correct but I believe unnecessarily conservative. With all the faces and the bottom level in ore as they are, I believe an estimate of 5000 tons certain for a quick operation is sufficiently conservative.

The mine is very favorably located for economic operation. The truck haul to Hayden Smelter is only $1.25 per ton and the ore is of a character that they desire. A natural gas line crosses the property and that fuel can be obtained for about half the cost of Diesel fuel. My own estimate of operating costs would be as follows:

Mining:- On a basis of 30 tons per day, including one crew on development work	$3.00 per ton
Freight and Smelting (Slightly higher on ores over $15.00)	3.75
Overhead:- Including misscelleanous items, construction or capital items, contingencies, etc	1.25
Total for present contemplated operations	$8.00 per ton.

This leaves a net profit of $8.00 per ton or $40,000 on the 5000 tons which I have estimated as certain.

While the formation is a type that is often "tricky" and can cut off or change very quickly, the probability of ultimate tonnage is really large, and I believe your preliminary operations will result in a more permanent operation, producing a good profit for many years to come.

I can therefore advise that you proceed with the proposition as Mr. Merrell outlined same to me, and feel that you have everything to gain and nothing to lose.

Very Truly Yours,

I am attaching herewith assay certificate on five samples taken by me with notes regarding them.

CHARLES H. DUNNING
MINING ENGINEER

ROUTE NO. 1
PHOENIX, ARIZONA

Mr Merrell:.

I have mailed the report on the Grand Prize Mine to your associates and trust that everything will be satisfactory. It is certainly a pleasure ad a relief to examine something once in awhile that checks out as represated and you are to be congratulated for having everything so wll in hand.

I am glad we made the visit to the Troxel property and I have hardly been able to get it out of my mind ever since. It is most unfortunate that there is no reliable engineering data available regarding this property and the one little report you have seems to have missed the picture (and the "boat") entirely.

This property has such enormous possibilities. And the geologic situation is sound - in other words there are sound reasons why it should be there as it appears to be. It is caused by porphyritic mineralizing intrusions into a type of schist that has made many of Arizona's most famous mines, with resulting contact metamorphism and replacement of large areas of the schist. If the values are at all as represented it certainly has enormous economic possibilities.

A proper examination of the property would of course be a big order and would require cutting and reduction of probably 500 large samples together with a complete survey and good maps and would require several weeks time for a crew of men. But if you can obtain a propeer option tha possibilities are well worth it.

I trust tha you will be successful in getting some thing started on this and would be most intreested in the results.

Thanking you and Mrs. Merrell for your kind and good hospitality.

CHARLES H. DUNNING
MINING ENGINEER

ROUTE NO. 1
PHOENIX, ARIZONA

Sept 10th, 1940

Notes on samples taken at Grand Prize Mine, Sept 6th, 1940, corresponding to attached assay certificate.

(1). In upper level-south, between Tenny's Block "D" and"B" and between his samples #12 and #13. This is a short broken zone not considered as ore and not included in any ore estimates. Sample was taken for the purpose of determining whether the area might be included, but evidently it cannot. 38" wide.

(2) Broken ore pile of about 60 tons on upper level. Sample should check Tenny's no9 and no 10 as his saamples were taken of the unbroken ore immediately above the pile. My sample was necessarily confined to the upper surface of the pile but the results did check the average of his stope samples very closely.

(3) Taken at Tenny's No 6 but extending the width of his sample 22 in further into the wall. The additional material sampled was evidently not minable ore.

(4) A mineralized streak 36" (or more) wide lying alongside the main ore streak, broken into in the face of the south drift, lower level since Mr Tenny's sampling. This is entirely in addition to the main ore streak which he sampled. This is not ore but looks as if it might make ore when the drift is extended firther south.

(5) The west split of the main vein on the lower level south of shaft #1, 8" wide. Not sampled by Tenny. This stringer splits off and then comes back into the vein about 30 feet further south. A little high grade ore here not included in the Tenny sapmple.

Mr. Durgea:

Mr. F. C. Merrell of Florence called me on the phone a few days ago and wanted me to come down and look over a little mine which you had under consideration, stating that my good friend Clarence Hershey had recommended to you that I do so.

It is sometimes difficult to decide just how much work to do in making an examination for a client with whom an engineer is unacquainted as some want a full and complete report with all details and others want a one word telegram consisting of "yes"cor "no".

However I found that the mine had been thoroughly and competently examined and sampled, particularly in a recent examination by Mr. Tenny of Tucson, that there were good and sensible reasons for its being what and as it is and that in all probability it would check out as presented.

Therefore, after talking the matter over with Mr. Merrell I thought that it would be sufficient for your purposes and for the matter in hand to check the Tenny report and sampling and to pass along to you my judgement and opinion of same and the general feasibility of the proposition you are contemplating.

I have therefore written you a very brief one page report which I am enclosing and have left all those details that usually embellish a report for another time or another mine. However i f this is not sufficient for your purposes I would of course be glad to go back and do any amount of work you might desire.

As stated in the report I feel that you have an exceptional opportunity in that a small profit is so well assured and a large profit so entirely probable.

I wish to thank yourselves and Mr. Hershey for this commision and trust that I shall have the opportunity of being of further service to you.

CHARLES H. DUNNING
MINING ENGINEER

ROUTE NO. 1
PHOENIX, ARIZONA

Sept 10th, 1940

Mr. L. N. Duryea,
and Mr. Thomas H. Sheridan,
135 LaSalle St., Chicago, Ill.

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It is sometimes difficult to decide just how much work to do in making an examination for a client with whom an engineer is unacquainted, as some want a full and complete report with all details, and others want only a one word telegram consisting of "yes" or "no".

However I found that this mine had been thoroughly and competently examined and sampled, particularly in a recent examination by Mr. Tenney of Tucson, in whom I have much confidence, and that there were good and sensible reasons for its being what and as it is, and that in all probability it would check out as represented.

Therefore, after talking the matter over with Mr. Merrell I thought it would be sufficient for your purposes and for the matter in hand to check the Tenny report and sampling, and to pass along to you my judgement and opinion of same and the general feasibility of the proposition you are contemplating.

I have therefore written you a very brief one-page report which I am enclosing herewith, and have left all those details which embellish a report for another time or another mine. However if this is not sufficient for your purpose I would of course be glad to go back and do any amount of work your might desire.

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Very Truly Yours,

Mr ---

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This Mine has been examined and very thoroughly sampled by Competant engineers the most recent being an examination and report by Mr. Tenney of Tucson in May 1940

As these reports are available to you and you are more or less familiar with them it seemed a usless duplication of work to do more than check the estimates of value and tonnage and any other data effecting the immediate probable profit and the economics of the present contemplated deal.

Mr Tenny's samples averaged $17.00 and were very evidently conservatively taken. And as ~~xxxxxxxx~~ the width of his sample cuts was always well into the walls I do not believe it is necessary to ~~xxxxx~~ allow ~~for~~ any further factor to cover ore dilution in mining.

Mr Tenneys estimate of tonnage developed (2900) is correct but I believe unnecessarily conservative. With all the faces and the bottom level in ore, as they are I believe an estimate of 5000 tonscertain for a quick opreation is sufficiently conservative.

The mine is very fortunately ~~situated~~ located for economic operation. The truck haul to the Hayden Smelter is only $1.25 per ton and the ore is of a character that they desire. A natural gas line crosses the property and that fuel can be obtained at a cost of about half the price of Diesel fuel. My own estimate of operating osts would be as follows:

Mining, on a baisis of 30 tons per day, including one crew on development work ; . . .	$$300 per ton.	
Freight to smelter.	1.25	
Smelting	2.50	(slightly higher on ore netting over $15.00 per ton)
Overhead, including missceleanous items, construction or capital items, contingencies etc.	1.25	
Total for present contemplated operations ; . . .	8.00	

This leaves a net profit of $8.00 per ton or $40,000 on the 5000 tons which I have estimated as certain.

I can therefore advise that you proceed with the proposition as Mr. Merrell outlined same to me and feel that you have everything to gain and nothing to lose.

While the formation is a type that is often "tricky" and can cut off or change very quickly, the probability of ultimate tonnage is really large and I believe your preliminary operations will result in a more permanent operation, producing a good profit for many years to come.

I am attaching herewith assay certificate on five samples taken by me with other realization

CHARLES H. DUNNING
MINING ENGINEER

ROUTE NO. 1
PHOENIX, ARIZONA

I took five check samples. Three of these , Nos 1, 4, and 5 were taken in places not inculded as ore in Mr. Tennys estimates.

I took five check samples. Most of these were taken in places not included as ore in Mr. Tennys estimates. A description of these samples is given herewith:

(1) In upper level, south, between Tennys block "D" and"B" and between his samples # 12 and #13. 36" wide. This is in a short broken zone not considered as ore and estimated in the ore possibilities. Results : Gold .06; silver .4

(2) Broken ore pile on upper level about 60 tons. Sample should check Tennys no 9 and 10. but was necessarily confined to the upper surface of the pile. Assay Results: Gold .40 .35 silver .40 .18 (It therefore did check the Tenny samples very closely.

3) At Tennys #6 but extending his width 12" further into the wall. Assay results Gold .71 silver .28 . (tennys results on the narrower width were gold 1.46 silver .4 , and considering the difference in widths and the fact that this was as the highest of all his samples it checks very well.

(4) A mineralized streak 36" (or more) wide broken into in the wall of the south drift, lower level, since Mr Tennys sampling. This is entirely in addition to the main ore streak which he sampled. Assay results gold .05 silver .57. This is not ore but looks as if it would make ore when the drift is extended firther south. face of the

(5) The west split of the main vein on lower level south of shaft #1. 8" wide. Not sampled by Tenny. This stringer splits off andthen comes back into the vein again about 30 feet further south. Assay results gold 1.75, silver .15. a little high grade ore here not included in the Tenny estimate.