

CONTACT INFORMATION Mining Records Curator Arizona Geological Survey 3550 N. Central Ave, 2nd floor Phoenix, AZ, 85012 602-771-1601 http://www.azgs.az.gov inquiries@azgs.az.gov

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THE WOOLEY MINE A Report by Henry W.Nichols, B.S., E.M

# REPORT ON THE WOOLDAY LINE

#### Of min Deligito

Leo Wall of New Othe WOlve Claims Covering Units property. The minung claims are also on a percented greating monesteric other by J. I. Mariana and Centi W. Mariana, coth of Coollige.

#### Morestation

Thus property to in the US of Section 33, The Film with Los. Which is 6 milles 5.", of Kenvin, Artizons. To report there. Travel 9.1 milles from Kenvin on the Property rout of Travel 25.7 milles from Filorence on the Kenvin rout.

((<u>i</u>))

At this point on the highlay there are three analy consists plens,s tovernment triangulation Station. Then to the cast along a sude sead for 5005t to a locked gate. From there a Jeep sead to the cast seaches the Wooley Line after about one mule.

#### Onterop

Workings. The tunnels, jourt and strik in length and the only developments guiving incornection of value. A 500ft 7 - "" shaft not eaved and entitienty inaccessible must have been very expensive. The other shafts, less than hours and inaccessible, together with a ser amput onto compusie the linet.

<u>Suze</u>. The outerop is a trungular above of 274,000 stoft. In area, 105060. In length by 26140.average width and a maximum width of 46060.

<u>Romation</u>. The ope in the Wooday offerop is a discrete in grantite whose vehicles of quartiz contain many was and papers. These was and papers have availably hold copper and ison subpliedes as some of them now contain analy masses of socialized iterative care between ow complete bath. The was sange from completely emply to completely full of thus copper state and iterative as no subplied is to be found on the property. Copper and incom bottons, is some or differential to recognize hore. A for oryetals of careto pate beau found in the lower tunned but are space. The stockwards

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18 8 GRUEDCE SONO LORMOE DY 8 LEWRING IN 8 NEED CLIPCEDION intercreting another system of faults striking from 620B OR the cast and of the outerop to STOR on the cast and and averaging about SUSE. Bhus arushing has resulted in forming (remite blocks of versions suges nossibly everyting 6412 COROSE BUILDING & CORRECTO CONDICE CONTRACTOR (100 OPENES UP to perilege june and deposition quarte opystalis as a lining and filliogodius loft many viss which a later EDIVISION (OF GEE)) OF LEESE DEFENDING FUELOG THE OTION AND 1501 anighted bintense and colplete lesening has left it in the present condition. The precioninating direction of These compar bearing quarter voundate he Sone and there ero eleo como b.es. colli es norteontel vermors in the obe depositions, the solutions seen to have confirmed the theat and append to the volulide but the authority and hes persident the spantic blocks. Thus has herdened the OUCODO CORTECTION UNICUL IN STANDS UP STORE THE STATEMENTS FRANCE IN & SNELON OF DIAMORICS, SOME OF UNON JOPL, MICH.

Walls. The walks are apparently not marked by any ship, the quarks vehicles and subscription just shop and the approximating granules is appeal and transmo. A blundfolded percent walking over the contact could tell the difference in the feel of the hard subscription are the coffer barren granite. There is no migrated copper in the table, which, taken with the emission, percent appuse of the orderdy

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LO & SURDING INCLICATION that the leachings from the ore have gone down to form a valuable secondary cone of emploiment. The dup of the value us not shown.

#### BEDIMETRO OF HOMASCO

#### HEIMENC OF DRIMERY ORC DESEVE

This 45,000,000 tons of ore together with the tonnego to be handled ability has a very important bearing on the amount of conduct that the ore one term to be profiteable.

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A TOUGH COST OFFITTERC, COTTINE OF THICH FOLIOT LEVER INCLOSED that 0.75% copper is the minimum assay of one that can be COnsidered profiliable in the outerop the pesitival trop and copper state inclusive definitionly the former presence OF Challespyration permane bornition and they pyratic. If ORO Dicturcs the wes find of this mistire, as some for and of comer stand imposive while owners are leached and the UT RECEIVERED TOPY INTUID STREAM OF THE IMPRIMENT TO CERTITIES AND POLICE DELIE OF RFC ORPODD DE NOLFAR ODGO CERETCE 5% CODE OF THIS WILLS DE POLLORE OVOF UNO OPODOLY as a whole by the large enume of terror grantee occorrently Cheomiteral Then, too, continuous ante were where the orebody in compliants the tunnels ((see Map #1)). These complete TERODE & FULCO2017 LONS AND GATE AR BUTCHESO OF 0.30% CONDER, a trace of alliver and no goud lif the universe used inte BOMDICE 90% OF THE COUDER, B 3% CODDER DELIMERT OF DELIV us unducated. At any fate, a conservative caulizate of 2% oppor in the primary ore would place the value well EDOVE the measure of 0.75% conserved to other metals have been cound in the outerop, inclusiving a need for only the sumplest metalingy, almost cortain to be MODED DO

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# <u>PETTERIO OF COSTE TO ACTOMINE THE MINIMUM ASSAU FOR</u>

- a There will be a 3 compariment ghaft 300m and or the gast and or the orchody and a 4 compariment ghave 600ft west of the west ond.
- t the horizontal area of the orelody throughout while be
- 6 SUIDING OPE WILL BEARD OF 500FF DELOW BUFFERDO AND CONDITIES UNIVERSITY TO THE 2500FF LOVEL, 2,000FF TOTAL OPO CONTINUE.
- d The openedy will be opened up by seven handers levole.
- O The block coving system with be used in proceeds the analysis of this method of mining.
- i Deality decorrection will be 3,000 tons of ore-
- & OPO WILLI DO CONCENTRADO OF A REALE OF 15 TO 1.
- in Conconstances while the industrial to the smalter by partic
- i to some and the second of a second in the second of a second in the second of a second seco

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- 1) The total cost per ton of ore will be the sum of,
  - (1) Central per ton to put the crute plant into production crocet that the developing of the considered as a part of the mining cost. (2) Cost per ton to mine.
  - (3)) COSY POR YON YO CONCENTRATION
  - (4)) gost per ton to smalt.
  - (5) Tare per tol.

The determs of the cost country.

The ortherop is entimely amproximate by a hight colored grammer, in a general way the wooley mine is at the endiend of a bent one half mile while and orthonomy terrend the wool court one half mile while and orthonomy terrend the wool court one half mile while and orthonomy terrend the wool court one half mile while and orthonomy terrend the wool court one half mile while and orthonomy terrend the wool court one half mile while and orthonomy terrend the court one three miles which the Posiley mine in the rest one, the Posiley has some small volues and has produced a quantities of commendation which is too ample a produced in this bein position courts from the court of the ordered to interpose an organization, there is constructioned (interpose to indepose an organization, there is constructioned (interpose to its out foost court, there are one of the ordered to the order of a out foost court of the ordered to be note allow for the same of indeposition are of the ordered. (is a loss report, they are referenced to by number of lines i and 2 and are to be found in the coller footes. They include comments on geological and other foothers.

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#### Power

The indian Service Teansmanner out and a main source of the outcome one and a half miles to the Ioffitteet of the outcome out the property Diff of the property of the teached of the outcome outcologies and the teached out the costoched of the

#### Water

The manchest hange supports of their at present is the child favor at Nooley Station, 5 milles to the horth, one ton of teller per ton of ore treated is certainly. Investigated hand uses about 5 are treat of their per year. It might be possible to buy 150 arres of ranch hand below and use the taker for concentrating. Then again, the two 2700Ht shafts may make sufficient taker for all perposes. The mane is on bay taken interpretions there is anneat to buy the color of the interpretion of the interpretion type, have problem can not be colored at present. A spring however the analy mile 1, 4, of the outpole, there is taker in former times for composes and there is taker in former times for composes and there is taker in former times for some permotes and there is taker in the angle on the Wooley is, it, just off the highTay. Bitcher of these might be subtraction to disting and compative permotes.

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#### Thrangoon Halfiloty

The outerop is about one mile from the Florence-Kaltin Inightay and size mules in a straight line to the Southern Rectific fielding at Wooley Station.

#### MULLIGILICE AND ROTAGELICES.

The drawnage basw., one wake a mule how, or whe outerop contains many multi and torn subses as wall as ample food for storage of tautungs, There is a large amount of OPE ground in the viewery and constitues many other good subse may be forme.

#### PRODOPIUM

The ground is here by theire unpatenties during eights (see Miscolibencous Note Mo.1 for Book and Page in the County Records))The status covering the outerop are in good shape but the outerying clause need adjusting, tert of the olaims, thermulting these on the outerop are on ground patentics as a gradual holesterop are on ground patentics are sold to be define to be holesterop in the the sole of the outerop and the billings (see mays 1 and 2), brought for some statume by the float and matches to a present, no nearby minima instances, there are at present, no nearby minima holesterop and matches of the angents is the billings.

#### THE THEFT

El bane left i bougense state de found our parte while doubt and the

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This property who frank is a of research who has been in instructs and abound this section since high days that it is into reconsiscention since work of this property was also between 1990 and 1900, hetters montai on a sook down in the wash and about the North of the outerop read, "Coloristical, Jou-Payton, LohoSeare, and 10/95.0 Possibly these were non who worked at the property in october, 1995, he boot know Seare as a man prome this dustriet for many years.

Madonnue Mercons of Winkieman says that he dote over this property as a common in 1998 and the buildings were in a state of rule at that the have valueded enthrain non)

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CVERY other expedient they could thank of but finally lost the shaft of 500ft depth and gave up. A grade of 15% copper tas needed to make ore as it tas shipped that case frame to filease. There tas an abundance of ion grade ore but they needed high grade to overcome the trouble they had. The Wooley where was filmanced by a group of Rathroad man from the bast and led by a wr. Wooley of Boston.

The above information regarding the shaft sounds reasonable. Where the subst shore in Tunnei No. 1 it is badly cover and shore that it is in the ordered zone of a main family. It was a very poor location for a shaft.

Summary

(( 111 ))

other means is the only tay to determine definitionly the desay of the primery ore, the depth to thich it goes and its termage.

#### Renne or gene,

The proof of this property is one cant per ton of ore, that is, (#90,000,00 to be paid over a period of 25 years. The buyer is to have one year to prospect thismout maxing any payment but is to agree to at a good job of prospecting. The officer and be furnitured all remains obtained in prospecting and be alloced access to all prospecting. (persitions

( 112 ))

<sup>0</sup> This measure is incorted because it is concertable that there is a stat secondary zone which could be mined out quickly and producedly while the primary or might be include in quantity or quality is that operation of the property over a long term of years rought become improvincial and the stock valueters, it with the motor that should the larger amount of stock be colle, the owner <sup>0</sup> since its reduced to one mail?

of the grazing homestand.

The measurements for the maps were obtained by a rough station instrument in the visuality of the outstop. Rusy should be correct to within the resulty of the outstop. Rusy isorther any were obtained inspecty by transmitten with a brunton compase and should be as accurate as a good pacing survey. The depthe of shafts were astumisted by the survey and the depthe of shafts were astumisted by the survey. The depthe of shafts were astumisted by the

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Bos 98. Ofecile Afileone.

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#### MELEOGULARCOME NOVCE

<u>Note il</u> "Phe electre of the Vooley Group are recorded as Iolliona,

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VICOLOV	NO0 5	1 j +	(i)	-ir	1:5071
WOOLGAY	NO. 6	·i'	(i)	• • •	11:00
WOOLGT	Nor 71	1]1	111	3*	1402
1100JLON	No. 3	·):	$f_{1}$	417	1405
WOOJ AN	No. 9	vit	6)	(j)	1195
WOOLGNY	NOO 140	11	(j <i>i</i>	(i)	1101
WOOLGY	NOOIII	171	11	(j)	11:011

<u>NONC 2.</u> There is a very forghily parallel to the orghody some 40097 to the North, it consists of a ich streams showing that and copies status. The pount of interest is that the coppet status stap where show on the map and the ison status continue to the sast in a summar manner to the status in the continuention of the orchody. Thus scene to mark the and of the copper some to the cast of the orchody.

<u>NORE 1</u>. There are main parates of a dark grained fine textured rook associated with the ore Thile rook is referred to de televise. In places it resemples an interveton but may be an alteration of the granite formed in connection with the ore reposition. Parates of this felaute are found occasionally over the property and usually earry copper state.

<u>NORE 417</u> (MODERONGLY GREE DECOMPLY COMES NO S FOULDE SUC REDURNED OF THE LEFT CHE. THE ROPHENION CON DE TRECCE

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SUPULOP to the Bast as set outerops. The set in these Outerops come the more to issenting of tron minorals other than subplitues and the thought occurs that those use a super-abundance of sets from the ore orderstion which thereally in the set offers and issent into the granite walls. In the set outerop furtheast bast there is a small streak, fur, where there comes bother,

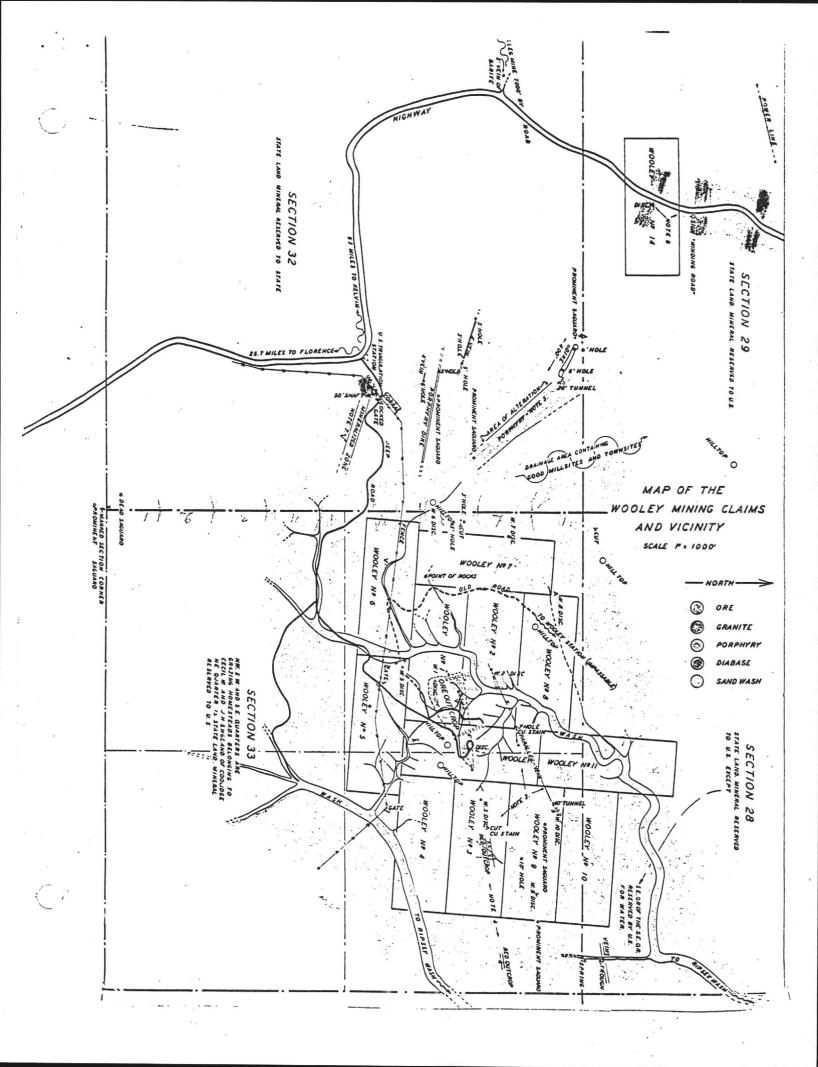
NORCE AS GROTTE OF THE POLICE OF THE MED, THERE IS ON area of parphyry verminering on the mast and in an OUDOUDDING CIVE OF OFFER SUUDDIFLOOD SUDDIED TOWN metter. Here is also an area of altered rook lying along the doed is defined a which doed the solution is a phase of the granitic. It may be of geological augulficance that the CLUSE DOLIDUE CLEPCOULLY COTOPO Whe vous of who wooldy to 14 OF ADO MART AND FOTOPO AND MODIAL ONFOTOD OF ADO DURIE NDRG 6. The shaft on the nooley louis us in a surread 1005 velu showing coppor stain. Appreciable amounts of CODDOP OBC LEVE DECLI Shinded from While Singly, it has toter ue utout us associated auth duabase and those are many OUGBODDING OF CHEDDES CHORE WE MIGHTON OUGS FOF & CLOPUOP OF B MILLO DO BLO NOPEL. IN BLO VLOITEBY OF BLO Start the charge has been leaded to a white callend Possibly supplies resply polosed the free sets to to une longiums.

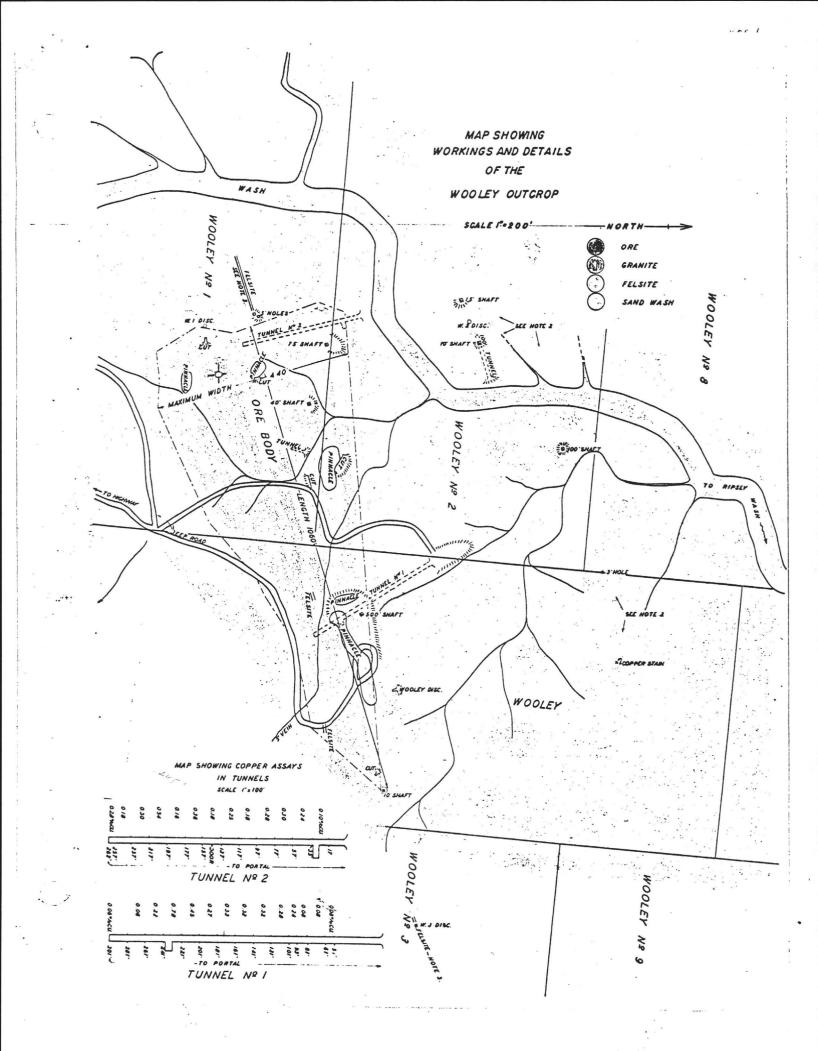
<u>Note 76</u> Thus minorelysed sone is in the grantic. It includes some diabase and extra subsetfied soot that stand out as outerops. It has several subs and holes or (nortez vetas several feet rude what appear to be redd anappedited but too small to be compressio.

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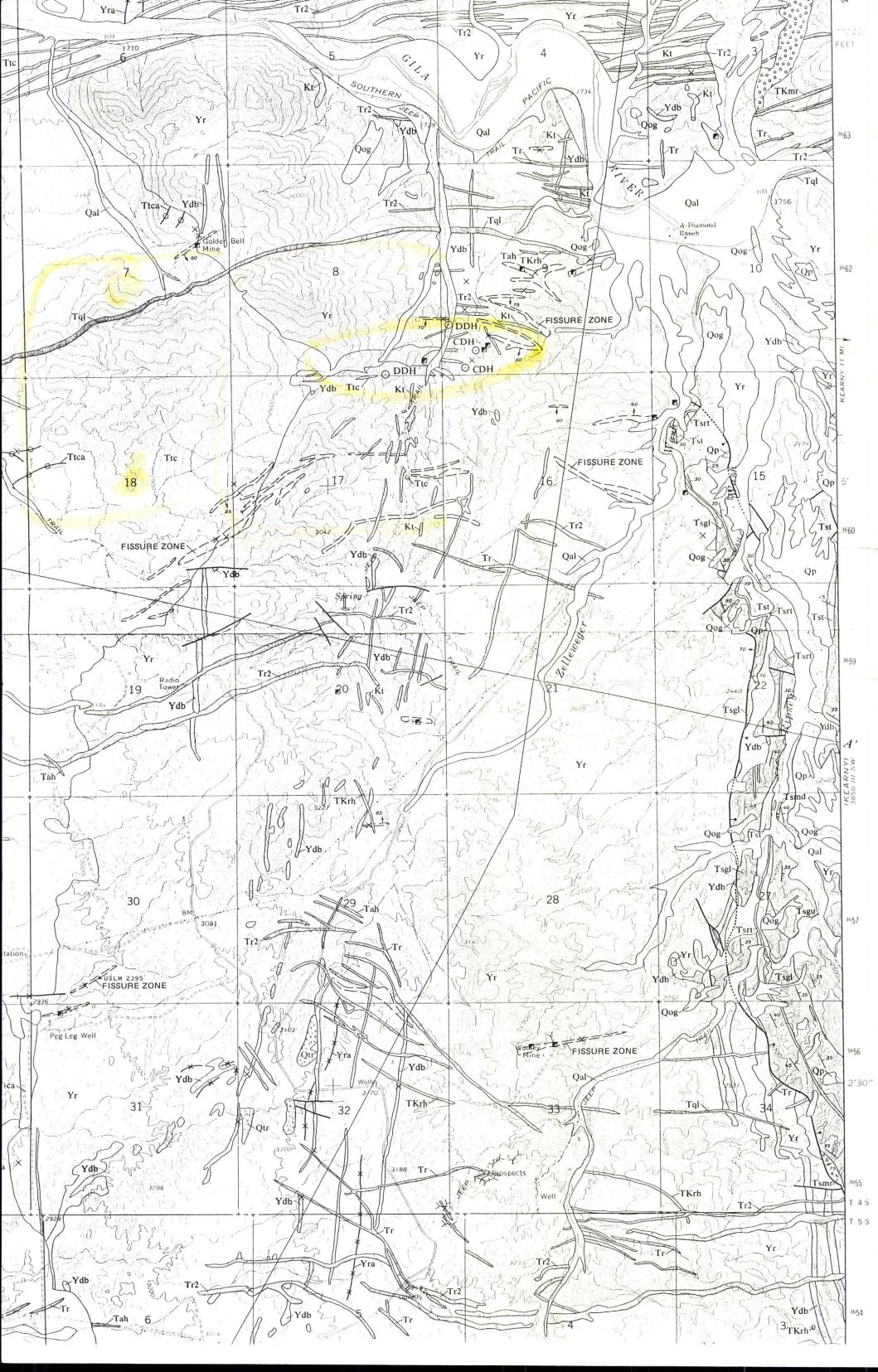
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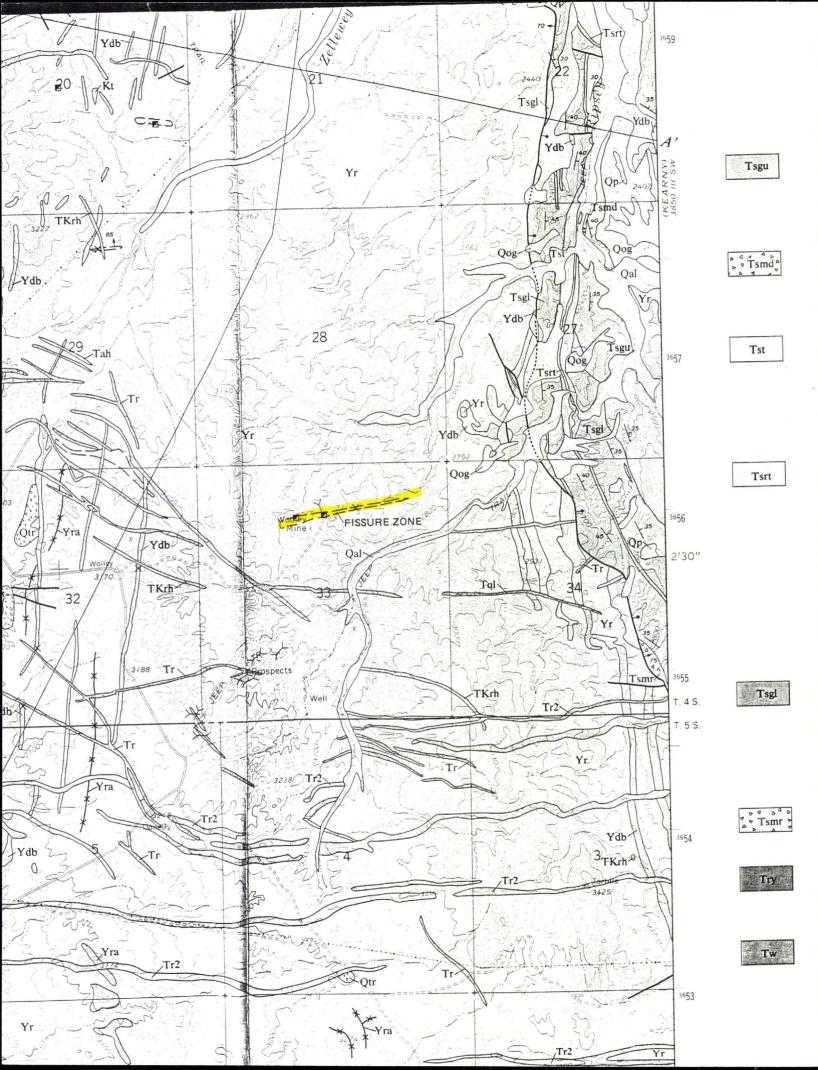
# DEFARTMENT OF MINERAL RESOURCES State of Arizona MINE OWNER'S REPORT

	Date 2.20-58
1.	Mine: Wooly Claims
2.	
<i>~</i> .	Location: Sec/10/15-33Twp. 45. Range. 13.E. Nearest Town. Wooker States Distance. 4 Direction
	Road Conditions. Poor at present
	Mining District and County:
3.	Mining District and County:
4.	Former Name of Mine: Griginally part of Windky Mar 2 (053)
5.	Owner: Wight
	Address:
б.	Operator:
	Address:
7.	Address:
8.	Number of Claims: Lode
	Placer Patented Unpatented
9.	Type of Surrounding Terrain: Rolly a notific Ended in Toping
10.	Geology and Mineralization: The mark last a series of the
	with under for a tree
	the the set of the set
	2 The travel
	has we zee in width of 1% are Extraction tests show
	3.98
	3.75
	Dimension and Value of Ore Body:
	Dimension and Value of Ore Body:

Please give as complete information as possible and attach copies of engineer's reports, shipment returns, maps, etc. if you wish to have them available in this Department's files for inspection by prospective leasors or buyers.

Ora Probable:		Large tonnage of low grade with locality
	<u> </u>	
3. Mine Workings-	-Amount and Co	ndition :
No.	Feet	Condition
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6. Remarks:	11:15 12	
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7. If Property for S	ale, List Approxi	mate Price and Terms:
7. If Property for S	ale, List Approxi	mate Price and Terms:
7. If Property for S	ale, List Approxi	





Visit wooley Mine - 6.A. Paker. 12/11/91

Take we sample from such , hand-cobbed stark pile Wol-altered f.g., intrusive w/ E.g. gtz, cockson & gt- vericets and FEOX in pockets after sulfides with 2/20 (uox (chrys) - pretty much as described in tile wife, vertical gtz. stockwork zoe of erratic but generally low COX - silie, get stockwork zoes locally project up to 20-30 above surface - overall not impressive for CUDX, possible Au?

- es a porvallel contact-dike zoe »/ oxid. sulfide + loox approx 3-4-36k to the Not stark work zoe. DEP NAME: BOMBOY MINE STATE CODE: AZ COUNTY: PINAL AU COMMODITY: CU AG V MINE\_DIST: WOOD CAMP CANYON DISTRICT TOWNSHIP: 001S RANGE: 011E SECTION: 26 SECT FRACT: NW POSITION: 1.1 MILES SE OF ROBLAS PEAK LOC\_COMM: 2 1/2 MILES WESTERLY FROM HEWITT STATION SUPERIOR IS 8 MILES MINE\_TYPE: U PROD SIZE: S EXPL\_COMM: OPERATORS INCLUDED; ETHEL GREY WEST AND RUSSEL GUZMANN AND DEP TYPES: VEIN DEP\_SHAPE: OBY\_STRIKE: N25E OBY DIP: 45E DEP DESCR: 2 VEINS ONE 3 TO 5 FT WIDE 70 FT LONG ONE 4-5 FT WIDE 50 F WKGS COMM: DIMENSIONS FROM MINE MAP 1943. FURTHER DEVELOPMENT OF WORKIN AGE HOST: PREC HOST ROCK: QUARTZITE DIABASE AGE\_IGN: IGN ROCK: AGE MINER: MINERALOGY: QUARTZ LIMONITE ORE MATS: COPPER CARBONATE LEAD VANADATE CHRYSOCOLLA ORE CONTRL: ALONG DIKE N25E TREND SIG ALTER: IRON STAINING FORM AGE: FORM NAME : GEOL COMM: DEPOSIT PROBABLY IN PRECAMORIAN EPICLASTIC ROCKS AGE OF MINE GEOL ENV: GEOL NOTES: GEN COMMS: **REFERENCES:** ADMR BOMBOY MINE FILE USBM FILE CLUSTER 402 ABGMT-USBM FILE ALT NAME: KING COPPER GROUP BUMBOY BOMBAY QUADRANGLE: PICKETPOST MOUNTAIN QUADRANGLE (1948) SCALE: 24000 ALTITUDE: 2446 FT YR\_FST\_PRD: 1916 YR\_LST\_PRD: 1971 LAST OPER: CUM PROD: CUM\_P\_COMM: COMMENTS: LATITUDE: 33-19-09N LONGITUDE: 111-12-48W UTM\_N: 3686500 UTM E: 480150 UTM\_ZONE: +12 COUNTRY: US INFO SRCE: 2 REPORTER: GEST DON E. REP\_AFFIL: ABGMT REP\_DATE: 82 04 UPDATE: REC\_TYPE: X1M REC NO: M241190

DEP NAME: PEG LEG MINE STATE CODE: AZ COUNTY: PINAL COMMODITY: CU AG AU MINE DIST: WOOLEY DISTRICT TOWNSHIP: 0045 RANGE: 013E SECTION: 31 SECT FRACT: N2 POSITION: ABOUT 2.8 MILES SOUTHEAST OF GRAY BACK MOUNTAIN LOC COMM: UTM LOCATION BASED ON LOCATION OF SHAFT SYMBOL NEAR PEG LEG WE MINE\_TYPE: U PROD\_SIZE: S EXPL COMM: OPERATED IN 1937-38 BY H.R. SCOTT; EXPLORED IN 1944 BU THEODO DEP\_TYPES: SHEAR ZONE DEP\_SHAPE: OBY STRIKE: OBY\_DIP: DEP DESCR: WKGS COMM: AGE HOST: PREC HOST\_ROCK: GRANITE AGE IGN: TERT IGN\_ROCK: RHYODACITE PORPHYRY AGE MINER: TERT MINERALOGY: ORE\_MATS: NEARBY WOOLEY MINE HAS MALACHITE CHRYSOCOLLA ORE CONTRL: FISSURE ZONESTRENDING EW SIG ALTER: FORM AGE: FORM NAME: GEOL\_COMM: GEOL ENV: GEOL\_NOTES: GEN COMMS: REFERENCES: ABGMT-USBM FILE DATA AZ DEPT MIN RESOURCES FILE DATA USGS GQ ALT NAME: QUADRANGLE: GRAYBACK (1964) SCALE: 24000 ALTITUDE: 2980 FT YR FST PRD: 1937 YR LST PRD: 1948 LAST OPER: MARTIN FISHBACK (1948) CUM PROD: CUM P COMM: COMMENTS: LATITUDE: 33-02-48N LONGITUDE: 111-03-51W UTM N: 3656280 UTM\_E: 494020 UTM ZONE: +12 COUNTRY: US INFO SRCE: 1 REPORTER: ROTH FRANCES A. (GEST DON E. **REP AFFIL: ABGMT** REP DATE: 82 03 UPDATE: REC TYPE: X1M REC NO: M241178

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DEP NAME: WOOLEY MINE
STATE_CODE: AZ
  COUNTY: PINAL
                 AG U
  COMMODITY: CU
  MINE_DIST: WOOLEY DISTRICT
  TOWNSHIP: 0045
  RANGE: 013E
  SECTION: 33
  SECT FRACT: N2
  POSITION: ABOUT 4.8 MILES SOUTH EAST OF GRAYBACK MOUNTAIN
  LOC_COMM: UTM LOCATION BASED ON LOCATION OF ADIT ON WOOLEY
CLAIM
  MINE_TYPE: U
PROD_SIZE: S
  EXPL_COMM: CLAIMS ARE WOOLEY CLAIM AND WOOLEY NO. 1 THROUGH
NO. 11 PAST
  DEP_TYPES: STOCKWORK/SHEAR ZONE
  DEP SHAPE:
  OBY_STRIKE: SE TO E
  OBY DIP:
  DEP_DESCR: LOW GRADE ORE IN VUGS AND PORES OF A STOCKWORK OF
QUARTZ VEIN
  WKGS_COMM: SHAFT OF 500 FT; TUNNEL OF 300 FT; SEVERAL SMALLER
SHAFTS OF
  AGE_HOST: PREC
  HOST ROCK: GRANITE
  AGE IGN: TERT
  IGN ROCK: RHYODACITE PORPHYRY
  AGE MINER: TERT
  MINERALOGY: QUARTZ LIMONITE HEMATITE
  ORE_MATS: MALACHITE CHRYSOCOLLA CHALCOPYRITE CHALCOCITE
UNKNOWN U
  ORE_CONTRL: FISSURE ZONES E-W TRENDING INTERSECTING FAULT
SYSTEMS STRI
  SIG_ALTER: ARGILLIC
  FORM_AGE:
  FORM NAME :
  GEOL_COMM:
  GEOL_ENV:
  GEOL NOTES:
  GEN COMMS:
  REFERENCES: ABGMT-USBM FILE DATA AZ DEPT MIN RESOURCES FILE
DATA USGS GQ
  ALT NAME:
  QUADRANGLE: GRAYBACK (1964)
  SCALE: 24000
  ALTITUDE: 2860FT
  YR_FST_PRD:
  YR LST PRD: 1956
  LAST_OPER: TOM SPARGO (1956)
  CUM_PROD:
  CUM P COMM:
  COMMENTS:
  LATITUDE: 33-02-42N
  LONGITUDE: 111-01-26W
  UTM_N: 3656090
  UTM_E: 497780
  UTM_ZONE: +12
  COUNTRY: US
  INFO_SRCE: 1
  REPORTER: ROTH FRANCES A. (GEST DON E)
  REP_AFFIL: ABGMT
  REP_DATE: 82 03
  UPDATE:
  REC_TYPE: X1B
  REC_NO: M241179
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# GEOLOGIC MAP OF THE GRAYBACK QUADRANGLE, PINAL COUNTY, ARIZONA

#### By H. R. Cornwall and M. H. Krieger

#### GENERAL GEOLOGY

The Pinal Schist, of Precambrian X age, is the oldest formation that crops out in the Grayback quadrangle. The east half of the quadrangle is largely underlain by the Ruin Granite, of early Precambrian Y age, which intruded the Pinal Schist. This intrusive relationship is evident in other, nearby areas, the Sonora quadrangle, for example (Cornwall and others, 1971). The Ruin Granite was intruded by diabase dikes and sills of late Precambrian Y age. The Precambrian rocks have been intruded by the Tortilla Ouartz Diorite of Late Cretaceous age and the Tea Cup Granodiorite, a large Paleocene pluton. These two plutons have themselves been intruded by Paleocene and younger Tertiary dikes of andesite, rhyodacite, quartz latite, and rhyolite. On the basis of intrusive relationships, most of the dikes are dated as Paleocene and younger; however, two types (TKmr and TKrh) do not intrude the Tea Cup Granodiorite and may therefore be older than the others. The dikes diminish in number and terminate westward across the quadrangle. Most have east-west trends with steep to vertical dips, but some change trend to northwest in the southeastern quarter of the quadrangle.

The Whitetail Conglomerate, a gently eastward dipping Oligocene conglomerate in the northwest corner of the quadrangle, unconformably overlies older rocks, is cut by younger rhyolite dikes, and is overlain by younger flows. A graben in Ripsey Wash, along the eastern edge of the quadrangle, contains east-dipping conglomerate, sandstone, and tuff. These terrestrial deposits were derived from surrounding highlands as the basin subsided during the early Miocene. In the Quaternary, gravels have been shed westward onto an alluvial plain from the higher, central part of the quadrangle. The Gila River, a major regional stream, flows west across the northern part of the quadrangle and is flanked by older Quaternary gravel terraces.

#### ECONOMIC GEOLOGY

A number of fissure zones with limonite, quartz, and, in many places, copper oxides crop out in the east half of the quadrangle. The zones dip steeply, range in strike from east-northeast through east to west-northwest, and transect most of the rocks in the area, including the Ruin Granite, diabase sills and dikes, Tea Cup Granodiorite. Tortilla Quartz Diorite, and rhyodacite dikes. Many of the zones have been explored by pits, trenches, and shafts, and a few by drill holes.

The most intensive exploration has been in secs. 8 and 9, T. 4 S., R. 13 E., an area where a steeply dipping protrusion of the Tea Cup Granodiorite, roughly 500 feet thick, extends eastward more than half a mile into the Ruin Granite. The deposit indicated on the map by a shaft in the southeast corner of sec. 8, T. 4 S., R. 13 E., is reported to contain copper and molybdenum sulfides. It has been explored by several mining companies. There is abundant chalcocite (Cu<sub>2</sub>S) and pyrite (FeS<sub>2</sub>) on dumps near two shafts located 1,600 feet east of the shaft mentioned above. Several limonitic shear zones that extend north of these two shafts for half a mile have been explored by pits and shafts. The Tea Cup Granodiorite in secs. 7 and 18, T. 4 S., R. 13 E., contains widespread disseminated malachite, chrysocolla, and limonite, indicating the original presence of copper and iron sulfides.

The Golden Bell mine in the NE<sup>1</sup>/<sub>4</sub> sec. 7, T. 4 S., R. 13 E., explored northeast-trending, steeply dipping fissure zones, 1-5 feet thick, that on the surface contain chrysocolla, malachite, limonite, and quartz. The Wooley mine in the N<sup>1</sup>/<sub>2</sub> sec. 33, T. 4 S., R. 13 E., consists of a shaft, adit, and opencuts that explored a steeply dipping east-west-trending fissure and breccia zone half a mile long and 50-200 feet wide. Outcrops of the zone contain disseminated chrysocolla, malachite, limonite, and quartz. A shaft and several pits explore two east-trending, vertical shear zones in the SW1/4 sec. 30 and NW1/4 sec. 31, T. 4 S., R. 13 E. These zones contain 1- to 5-foot veins of quartz with chrysocolla, malachite, and limonite. Pits, trenches, and a diamond drill hole in the SE¼ sec. 10, T. 5 S., R. 13 E., explore fissure zones containing malachite, chrysocolla, and limonite.

The deposits described above are the most notable ones explored in the quadrangle. Copper and molybdenum were the principal metals found. Other mineralized areas are indicated on the map by additional fissure zones and exploration pits and trenches. There is no recorded production of copper or other metals from this quadrangle.

#### REFERENCES CITED

- Banks, N. G., Cornwall, H. R., Silberman, M. L., Creasey, S. C., and Marvin, R. F., 1972, Chronology of intrusion and ore deposition at Ray, Arizona—Part I, K-Ar ages: Econ. Geology, v. 67, p. 864–878.
- Banks, N. G., and Stuckless, J. S., 1973, Chronology of intrusion and ore deposition at Ray, Arizona—Part II, Fission-track ages: Econ. Geology, v. 68, p. 657-664.

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PRODUCER	NON-PRODUCER
A6 4 4 4 4	MAIN COMMODITIES PRESENT C11
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*PRO PRODUCER	DUCTION I NON-PRODUCER
NODUCTION SIZE (SM) MED LGS (circle one)	PRODUCTION UND: NO: (circle one)
PRODUCER	OR DEVELOPMENT NON-PRODUCER
STATUS AND ACTIVITY A28	- STATUS AND ACTIVITY A20
LEO WALL (1958) Tom SPARGO (1956)	AR OF FIRST PRODUCTION LAS <
CLAIMS ARE WOOLEY CLAIM, AN	D WOOLEY NO. 1 through NO. 11 PAST OWNERS CONPARY.
	ON OF DEPOSIT
> UNITS M21<	_> MAXIMUM LENGTH MAR 2000 > UNITS MAT FT
> *UNITS M91<	> MAXIMUM WIDTH MSS 900 > UNITS MST FT
	MAXIMUM THICKNESS MGG / / UNITS MGT /
	> *DIP #466<
	PORES OF A STOCKWORK OF QUARTZ VEINLETS
UNDERGROUND M130 BOTH M146 (circle one)	*OVERALL LENGTH M190<> *UNITS M191<
<u>300</u> 'UNITS MITIS <u>FT</u> SHAFT OF SOO FT ; TUNNEL OF	_> "OVERALL WIDTH M200<> "UNITS M201< _> "OVERALL AREA M210<> "UNITS M211< F 300 FT; SEVERAL SMALLER SHAFTS OF 10 FT TO
	> OVERALL AREA M210
SHAFT OF SOO FT ; TUNNEL OF	> OVERALL AREA M210
SHAFT OF SOO FT ; TUNNEL OF G	_> "OVERALL AREA M210<> "UNITS M211< F 300 FT; SEVERAL SMALLER SHAFTS OF 10 FT TO
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GI SHAFT OF SOO FT ; TUNNEL OF G (P.R.E.C	DECLOGY
GART OF SOO FT ; TUNNEL OF GARANTE (JER.T., J. (RHYODAGTE PORPHYRY) (JER.T., J. (RHYODAGTE PORPHYRY) (JER.T., J. (QUARTZ, LIMON ITE, HE MATITE (EISSURE ZONES, E-W TRENDING, DIKES AND FAULT FISSURES TA (E-W TRENDING FISSURES ZON E	DECLOGY TWIERSECTING FAULT SYSTEMS STRIKING NW REND BOTH E-W AND NW IN AREA
GART OF SOO FT ; TUNNEL OF G G G G G G G G G G G G G G G G G G G	DECLOGY TWIERSECTING FAULT SYSTEMS STRIKING NW REND BOTH E-W AND NW IN AREA
GART OF SOO FT ; TUNNEL OF GARANTE (JER.T., J. (RHYODAGTE PORPHYRY) (JER.T., J. (RHYODAGTE PORPHYRY) (JER.T., J. (QUARTZ, LIMON ITE, HE MATITE (EISSURE ZONES, E-W TRENDING, DIKES AND FAULT FISSURES TA (E-W TRENDING FISSURES ZON E	DECLOGY TWIERSECTING FAULT SYSTEMS STRIKING NW REND BOTH E-W AND NW IN AREA
GILLES AND FAULT FISSURES ZONE	DECLOGY TWIERSECTING FAULT SYSTEMS STRIKING NW REND BOTH E-W AND NW IN AREA
GILLEC.	DECLOGY TWIERSECTING FAULT SYSTEMS STRIKING NW REND BOTH E-W AND NW IN AREA
G G G G G G G G G G G G G G	DECLOGY TWITERSECTING FAULT SYSTEMS STRIKING NW REND BOTH E-W AND NW IN AREA
GILLEC.	DECLOGY TWITERSECTING FAULT SYSTEMS STRIKING NW REND BOTH E-W AND NW IN AREA
G G G G G G G G G G G G G G	DECLOGY TWITERSECTING FAULT SYSTEMS STRIKING NW REND BOTH E-W AND NW IN AREA
G G G G G G G G G G G G G G	DECLOGY TWIERSECTING FAULT SYSTEMS STRIKING NW REND BOTH E-W AND NW IN AREA
GINGELC	Diverall AREA M210 UNITS M211 DE 10 PT TO E 300 FT; SEVERAL SMALLER SHAFTS OF 10 PT TO EEOLOGY EEOLOGY EINTERSECTING PAULT SYSTEMS STRIKING NW REND BOTH E-W AND NW IN AREA E THROUGH MINE! MAIN ZONE N&3E
GINGELC	DECLOGY TWITERSECTING FAULT SYSTEMS STRIKING NW REND BOTH E-W AND NW IN AREA
GINGELC	Diverall AREA M210 UNITS M211 DE 10 PT TO E 300 FT; SEVERAL SMALLER SHAFTS OF 10 PT TO EEOLOGY EEOLOGY EINTERSECTING PAULT SYSTEMS STRIKING NW REND BOTH E-W AND NW IN AREA E THROUGH MINE! MAIN ZONE N&3E
GINGELC	Diverall AREA M210 E 300 FT; SEVERAL SMALLER SHAFTS OF 10 FT TO EOLOGY EOLOGY ETATERSECTING PAULT SYSTEMS STRIKING NW REND BOTH E-W AND NW IN AREA E THROUGH MINE! MAIN ZONE N&3E
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WOOLEY CLAIMS

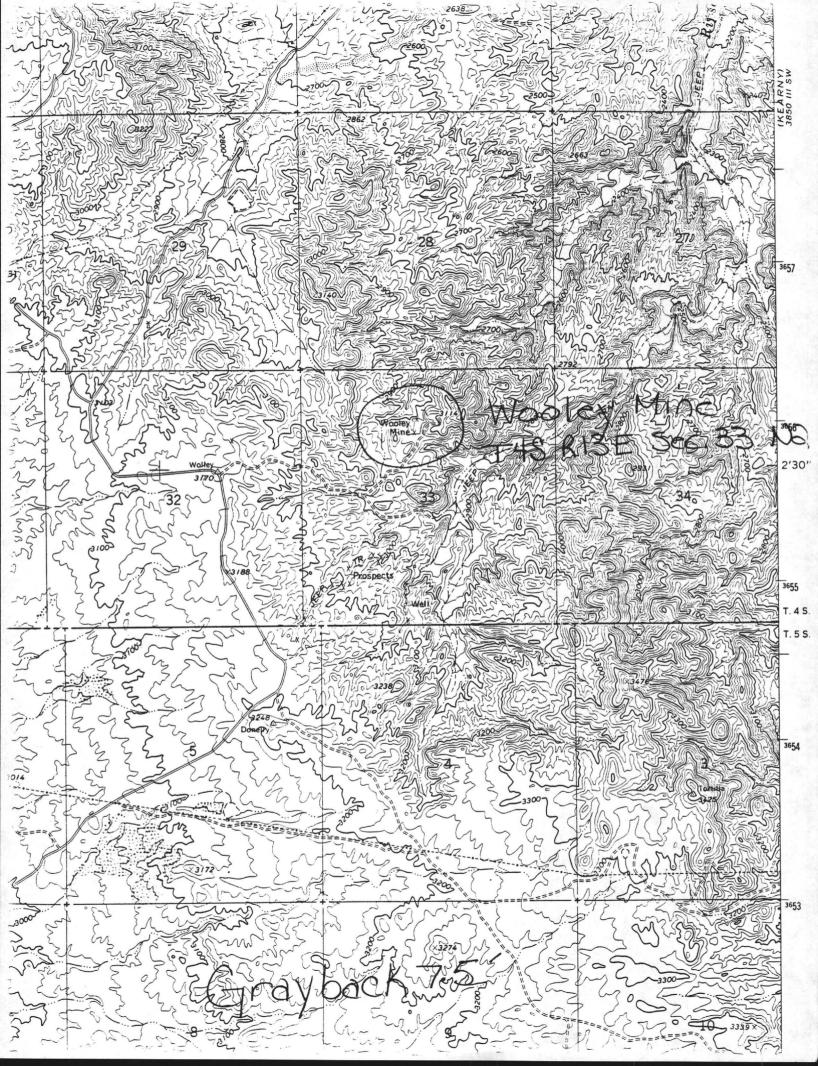
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Leo Wall wanted information on leaching. He stated that he has a large tonnage of siliceous copper ore which assays 0.8 to 1 percent copper and 75-80 percent silica. This is at his Wooley Claims.

LEWIS A. SMITH - Superior Conf. - 6-22-61

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# ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES <u>VERBAL INFORMATION SUMMARY</u>

Information from: Don Jenkins
 Company: Gold River Resources Inc. (c)
 Address: P.O. Box 4106
 Prescott, AZ 86302

- 2. Phone: 778-6160
- 3. Mine: WOOLEY PROPERTY
- 4. ADMMR Mine File: Same
- 5. County: Pinal
- 6. Summary of information received, comments, etc.:

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Mr. Jenkins reports he has acquired (by lease?) the Wooley Property and plans to evaluate its potential for copper oxide production.

Nyal J. Niemuth, Mining Engineer

#### 07/19/88

Wooley Riverside Dist.

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES FILE DATA

PRIMARY NAME: WOOLEY MINE

, Also several other prospects in same area described in Graybuck 72" guad.

ALTERNATE NAMES:

PINAL COUNTY MILS NUMBER: 337

LOCATION: TOWNSHIP 4 S RANGE 13 E SECTION 33 QUARTER N2 LATITUDE: N 33DEG 02MIN 39SEC LONGITUDE: W 111DEG 01MIN 26SEC TOPO MAP NAME: GRAYBACK - 7.5 MIN

\*

CURRENT STATUS: PAST PRODUCER

COMMODITY:

COPPER

**BIBLIOGRAPHY:** 

ADMMR WOOLEY MINE FILE USAEC PRELIM. RECONN. REPORT 1772-488, 1951, P. 4 MOOLEY GROUP

4.

#### PINAL COUNTY RIVERSIDE DIST.

Leo Wall, Box 164, Ray, Arizona, raised a problem of priorities of homestead over claims for mining purposes/as to whether mineral rights are included. He also had a problem of leased ground over mining rights on part of the property. The claims are the Wolley Group, near Kelvin. They lie partly in the northwest and northeast quarters of the section. A rancher has a homestead on the northwes quarter but the northeast quarter is leased. Most of the Wooley is on the northeast quarter. Since it was brought out that the rancher is desperately in need of water in the area, it was suggested that a possible agreement may be worked ou with the rancher offering water rights in trade for mining rights, preventing possible controversy. Th property has a shaft 420' deep which has a strong flow of water which rises to 112 feet. It was also suggested that Wall get a sample of the water analy zed to see if it is suitable for cattle. The claims are valid and the work has been done. Wall has a group who wish to go in and test the property and ship some ore for flux. According to Wall, the exposed ore runs  $1\frac{1}{2}\%$  copper and over 80% silica

> LAS Conf. Report 6-18-59