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ESPERANZA

Twin Buttes

Reconstruction Finance Corporation V Preliminary Development Loan November 11, 1942

Earl F. Hastings

77?

Date Application Received Date of Field Examination Date of Report C-ND-Phx. 76 October 24, 1942 November 7, 1942 November 11, 1942

- Name and address of applicant (correspondent):
   D. J. Miller, Box 2552, Tucson, Arizona.
- 2. Character of project and estimated cost thereof: Unwater, repair and sample shaft and lateral workings of the 750 foot main shaft for the production of lead-zinc-copper-silver ore, \$5,000.00.
- 3. Location of property:
  Twin Buttes Mining District, six miles southwest of Twin Buttes, Pima County,
  Arizona.
- 4. Applicant's interest in or ownership of property:
  Applicant holds lease and option to purchase.

Loan requested: 5. \$5,000.00

- 6. Loan recommended: \$5,000.00
- 7. Comments:
  - (A) Added to the docket are:
    - 1. Report by George A. Ballam, Field Engineer, Dept. of Mineral Resources, November 7, 1942.
    - 2. Report by Todd B. Elliot, E. M. dated June 28, 1935, San Francisco, Cal.
    - Letter to T. P. Lane from A. R. Byrd., Jr., Box 5226, Tueson, Arizona, November 4, 1942.
    - 4. Signed statement by Anton and Dan Zambonini.
    - 5. Letter to applicant from J. M. Martinex, dated October 28, 1942, Greater-ville, Arizona.
    - 6. Letter to applicant from Mrs. E. A. Pike, dated October 29, 1942, Tucson, Arizona.
    - 7. Correspondence between the Department of Mineral Resources and the applicant.

ESPERANZA MINE -2-November 11, 1942 (B) Original data pertaining to the old workings is lacking in this application, but statements contained in the added documents listed above are indicative of a substantial shipping record and unmined areas of ore which could now be classed as commercial. (C) The map is not particularly illustrative but verbal communication with the applicant clarifies conditions to some extent. The 750 foot shaft is on the #1 vein and follows it on it's dip. The 300 foot shaft is on #2 vein and from it a crosscut has been driven to another unidentified vein. A connection between the two shafts is a matter of crosscutting rather than strictly of drifting. (D) The dump ore, after further sorting, is not of shipping grade but there is fair evidence of sufficient quantity and value for it's consideration in any future mill plans. It, coupled with previous shipments and extent of workings, combine to indicate a most favorable overall value of the ore to be found in place. That there is a large quantity in place can be assumed from the Martinez and Zambonini statement, the first indicating that the 400 to 700 level areas are almost intact and the latter that there is ore left on the 170 foot level. (R) Based upon the statements of the above mentioned parties who have been in the new inaccessible workings, and upon a favorable location in a highly mineralized area, it can be anticipated that granting this loan will make accessible both shipping and milling grades of ore. A custom mill is now in operation at Tueson which can treat this type of ore, and a reputable operating company is seriously considering moving a mill into the Twin Buttes area for treating custom ores. Thus there is an outlet for a high grade complex mill ore, and the possibility of a closer market in the near future. (F) This property adjoins the Castile Mine operated by C. B. Conlin on Reconstruction Finance Corporation funds, Docket No. C-ND-7640 (Phr. 25). ARIZONA DEPARTMENT OF MINERAL RESOURCES Earl F. Hastings Assistant Director and Projects Engineer

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

Mine NEW YEAR'S EVE, Cu-MoS2

Date November 23, 1942

District Pima

Engineer Earl F. Hastings

Subject: Reconstruction Finance Corporation
Preliminary Development Loan

Date Application Received Date of Report C-ND-Phx. 86 November 5, 1942 November 23, 1942

- Name and address of applicant (correspondent):
   New Year's Eve Mining Co. Wendell P. Hubbard, 1015 Security Building, Los Angeles, California.
- 2. Character of project and estimated cost thereof:
  Unwater and sample mine workings to check copper-molybdenum values, \$5.000.00.
- 3. Location of Property:
  Pima Mining District, five miles SE of Twin Buttes, Pima Co., Arizona.
- 4. Applicant's interest in or ownership of property: Applicant is partnership of four equal partners holding Lease and Option agreement on a 5% royalty basis.
- 5. Loan requested: \$5,000.00.
- 6. Loan recommended: None. (Note 7-E below)
- 7. Comments:
  - (A) Added to the docket are:
    - 1. Copy of letter to applicant from Elgin B. Holt, Field Engineer, Department of Mineral Resources.
    - 2. Copy of letter to Elgin B. Holt from Eagle-Picher Mining & Smelting Co.
    - 3. Copies of correspondence between the Department of Mineral Resources and the applicant.
  - (B) Paragraph 3, page 13 of the C. J. Sarle report is incorrectly copied and should read as follows: "....by a raise has an estimated thickness of 60 ft., a north-south length of 75 ft. and a breadth of 70 ft; and a contained tonnage of 25,250 tons, allowance being made for one removed in development amounting to a little over 1,000 tons".
  - (C) The above mentioned block assaying 0.82% MoS<sub>2</sub> and 1.013% Cu. is, together with an additional 10,000 probable additional tons, insufficient upon which to base a profitable operation. The reported results of 0.14% MoS<sub>2</sub> average as determined by the sampling of the Arizona Molybdenum Corporation are not favorable to overall economics. Reported development subsequent to the Sarlés report refers to high grade ore exposures in local areas, but are not well confirmed.

1 4 1 4

- (D) An attempt should be made to obtain the assay plan compiled by the Arizona Molybdenum Corporation from which it can be determined if the distribution of the values, comprising the average given, is such that a selective mining system is practicable. If selection is possible the property would be interesting as a supply source of a limited quantity of molybdenite and copper which would probably be obtained at a net loss.
- (E) This loan cannot be recommended from an angle of economics, but cognizance of the critical molybdenum shortage should be a factor in the consideration and final action.

ARIZONA DEPARTMENT OF MINERAL RESOURCES

Earl F. Hastings Assistant Director and Projects Engineer

(1)

型: 如 WENDELL P. HUBBARD Attorney-at-Law 510 South Spring St. Los Angeles, Calif. MIchigan 5649 November 2, 1942 Reconstruction Finance Corporation 325 Heard Building Phoenix, Arizona Gentlemen: I am enclosing in duplicate an application for a preliminary development loan for \$5,000.00 on behalf of a co-partnership consisting of the undersigned, Wendell P. Hubbard, Walter F. Haussler, Fred E. Adams and A. M. Phippen. We have attempted to give all the information available in the application and in the exhibits attached. I trust that these will be sufficient for your requirements. With respect to the partners, I wish to give you the following information: 1. I, Wendell P. Hubbard, am an attorney in good standing in Los Angeles, California, and have practiced in Los Angeles for fourteen years. My work during the past two or three years has been particularly concerned with representation of those interested in oil and mining end in such work I have had to sit in on the working out of various mining problems. 2. Walter F. Haussler has been a resident of Los Angeles for many years and during the late Twenties and for several years up to 1937 was a contractor and builder. Since that time, his work has been more in the mining field and he has had considerable practical experience in mining. 3. Fred E. Adams is a metallurgical chemist and holds a degree from a university. His work during the last few years has given him a great practical knowledge of mining inesmuch as he has had to work out mining problems for a number of mining companies, as he is familiar with the treatment of ores as well as the practical phases of mining operations. 4. A. M. Phippen is a mining engineer and has had many years experience in that profession. He has acted as consultent for many mining companies and is thoroughly familiar with the various phases of mining operations. COPY

Mr. Adems, Mr. Phippen and Mr. Haussler will spend most of their time at the property and their past experience will assure the operations being carried on in a good and minerlike manner. Because of their experience, they will be able to make the very most out of the mine leased to the partnership.

Trusting that the enclosed application will receive

your early and favorable attention, I remain,

Very truly yours,

wph:lw

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## RECOMBTRUCTION FINANCE CORPORATION MINING DIVISION SUPERVISING ENGINEER'S REPORT

Docket No. ND-5464 D. J. Miller

Date of Examination: Aug. 8, 1943 Date of Report: Aug. 12, 1943

The borrower under the above captioned docket has applied for a development loan in the sum of \$13,000. The project was granted a preliminary development loan in the sum of \$5000 followed by an additional loan of \$4500. The present application therefore represents a request for an additional \$3,000.

The accomplishment under the second loan (\$4500) has fallen far short of the program which was set forth at the time of granting the loan. The main items of the program are commented upon as follows:

- 1. The main shaft was to have been repaired and cleaned out to the 170 ft. level. Actually, only some six sets were replaced in the shaft. Several more sets will have to be installed before the work reaches the fill in the shaft at 101 feet.
- 2. The program provided for drifting 50 feet on the 300 ft. level in the No. 3 shaft. No part of this work was done. Several sets were repaired at the collar of this shaft and several posts and some logging was replaced at the head of the caved winze on the 200 ft. level.
- 3. The drift on the 75 ft. level in the incline shaft was advanced some 60 ft. It was expected that this work would pay its way in ore produced. The good values which were present at the start of this work continued for only a short distance and the balance of the drift exposes an irregular stringer with low metal content. Sampling of the new work is shown on the sketch accompanying this report.

  Samples No. 1 A, 2 A and 3 A. At the time of my examination the applicant was trucking out for shipment the piled ore which was derived from this working place. The ore is to be sent to Bisbee for treatment. He estimates that the shipment will amount to 40 tons averaging between 20 and 25% combined lead, zine and copper with 10 ounces of silver. Judging from the appearance of the pile of ore, I believe that the estimates regarding both quantity and grade are high. On the basis of the assays estimated

which was the anticipated return before mining, calculated in my report dated April 16, 1943. The applicant states that "it is well known that the value of the ore increases with depth", and that "the 75 foot level is just about on top of the ore body". While it is true that the bulk of the past production was made from a lower horizon in the mine, there is no evidence in the limited exposure here that the value or size of the ore shoot is progressively increasing with depth.

### CONCLUSIONS:

Development of the ore showing upon the 75 foot level has proved disappointing.

The applicant has expended \$9500 and has accomplished very little in the way of construction development of the property. While it is true that labor as well as other costs is quite high and that the quality of the labor is not good, the chief reason for the sorry showing is chargeable to the applicant's lack of aggressiveness and industry and general competence to handle a job of this nature.

The possibilities in the deeper development of the mine remain attractive but I do not believe that any results commensurate with the risks and costs in materials and manpower will be obtained by lending more money to this applicant; and I recommend therefore that the request for a further loan be declined.

T. P. LAME Supervising Engineer

# Progress Report

Dorbet Mr. C-ND-7932 D. S. Miller

Date of Prospection May 28, 1943

Date of Report Dune 3, 1943

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and property was mated on May 28, 1943

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at solvents it is planned to field the one and ship to that company the transportation charges in this execut would be love and it is auticipated that a monte settlement schedule would more formable that that of the shattuck - Dean model be amilable World in the shelm the 75 Ft. land Pad been delayed by the middle to get men but the home believed expected to be this work under wong soon. - Pha Pup. En Che wormley bast chief, Mining Roten, RF.C. Bruia. Re-Dorkether. C- ND-7932 - D.J. Mille Jam endosig herente a brogues Rept und the alm-continued diskt Sup Engin

Tully Jan enlosighen ith 4 3 copies of application for loss together with my Supering Capition regard on the she continued project. 2 Copie from application Supering Engineer Report , asson Celificate

C-NO- 7932 Dakit Wo april 7, 1943 Date of Examination Cepil 1943 Date of Report · Maine and address of applicant Marie D. Z. Mille addus B.x 2552 Cityourstate Truesm, Quiza ( Note: The property Pasteen operating Jan. 1943 and the present applienten fraktisch fürer. 2 Charte of Project Derelopment of lead-zui-coppe. silve depoit Lozatini of mine He mine is broated in the Turing Butter mung district in Pinna county angin. Salamita, the reasent slupping pout, is 17 miles east from the mine by hard surfaced sond, and Tuesm, Fle meant supply center, is 32 rumes from the rume by good sond, the first few miles of which is

Rand surfaced. There are steep

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pon a leasers operation on the 75 foot level. There is said to a be a bulkhers at the 160 170 foot lend and the shoft therefore is filled at least to at least that depth Some regain was done in the shaft alm the fill and when it was realized that the fund word for about of some amilable muld fall for short of accomplishing the original objective the borrows cleaned out a posterior the 75 foot level and done ahead are a obstance on a launing wall rein. This work uncorred a showing of one hermafter described. The condition of the shaft is very poor and it was ended that a full clean one in the shoft moned to be a job of considerable magnitude velich sammet de quitte by the vacue skitchy reports presently de applicant therefore Lis of requestions my semest the such additional funds as would be required to explore the his of the out below the fort cont on the promit macarille 170 for level, and to do some explorator, mak below on one showing in this

her 3 shoft hermafte described . Inthe event that this development program repulted from by consideration of a full clear out to himself to im the A. Quent Frature 1. There are no receive undering its which are not confined with the applicants ownership. 2. The project complies will stall compensation and sofety-first statute. 3 The are no apparent legal dis orepaucies in the project. 4. There are no unipeded right - of non failities 5. Here is no libeliant of sunforce on sub-surface trespose. B Existing Duckryment The ruine is opened by shofts a. Us maps of the unking as arailable. The sketches which accompany this report non much Ama compose and take sung of the making b. Samples were picked and me led across the vain and gothered in caura, a The working were larrely macecoible and much that un accosible has ni pour and tem.

d general feature of the deposit ite reported and the Remodered thousand delan Mone of the La records or sure is a mileble and the history of the parties is margine. Out the The original application of he are continued mo occompanied by elt. the an account of its early operation and by all the staticles cette, et muich an andelle. Felling in a description of the wallings and of the sampling (cae accompanying salutalos): of the is an incluse (sheft Mo 1) such 750 ft on the vein author de shift (Ur 2) in much restrictly some 200 At most and a little light than her solver of the rain a rein pailled to the main vain but this cannot be postaily reinfeal because of the longe viale and cond undition of the collantille - h. H. ash- H- stipe, foring called the Spainish Shoft, is such on the Tmach vely near the vertical shift. It is said the so just depart is only portally accessible in its upper pertin and and which shows on. Some 300 feet

and somewhat Right with life futle to the most cost live a shoff is such in the main vent to a depth of 300 Ft. inthe lends at 128 Ft., 200 Ft and 300 Fit. Ce rumber of ling tudinal outs line I can made upon the main roll. Prot post presenting of the property land made from about the 300 Ft. Lend in the incline shoft. The vertical shift and the Epanish sheft are such paid to him contributed publicantered, to the production. It is not know what yourten. ver made between their walkings, has shift is a competently went dendipone to and some with that was done on the 200 Ft. Level 2 years and wilcome 1 a about Company on part a of the distance multi cost from the observant Q 30 fort vige mis such a the one and this said to be continuing suitle lattom inth a midtle of 24". This minge mo and and more al the Teme of the examination and the water of wein on the 128 Ft. level Book lean drifted on mi both direction.

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De 75 fort land in this some R the dury, now saw, led by shoulding out comes and reducinthe helle of the sample by her being and quarter; the material. The dury, show lut utterfort omnett of sulphile minel C. Proposed Development the shift below the 75/17 terret and it is filled aclean out out repair it to the 170 Et. Level. This land vill blan be examined to check repets of one expression it will protection attention for the serie winnershall latar the pulphide one and presently exposed on the 75 FX fort. It to puposes about 50 feet on the 300 feet. In i in the 3 shoft with the expectation of picking up the down sextens of the one occurre, in the uniter the sor Ft. for f. The hist beadfrom etc. an ingrath, conditions at this shop. I the applicat is not municit the prevent time. hed hupan leti i omiede il 6 mpa dan fr min

His not possible to Esternale the probable productive rate in the process slate of donal ops of of the property Enguiper the applicant prosents will tis application a Destof the the list have been clearly. The equipmed is adequate of the -to Rouble the proposed profram. Housing will be required for R the compression and link Estimated Cot Estimited gost for the proposed program is as follows. Changet and repair shift to 179 ft forf 72,000 Repair duft on 170 Ft. In-P 400 Dift 50 ft on 300 FX for ((Mo38h /)) 150 @150 pr fort Housing for compressing knit 300 Superior, 3 more 200 600 Freight, auto expense, inforseen 450 4500 It is assur , that dendopment ntl NR one onthe 75 Ft. for I will pay its way

Min costs all not exceed #6. the cost of the present state of desdrpment of It propriety. One is sil queterties que de la companya del companya del companya de la companya del companya de la companya de la companya del companya de la companya It is proposed to ship the one to the she custom mill of the Shattuck Deur Mun, Co I Poisher. Conto per ton routher relieble une ? la about as follow (on an one containing #20 pay value):
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quite high grobe. He and the GREY. Rose The weighter and filler prostly exposed on the 75 Ft. Luf (3 samples) is as follows: - 03an 0,0, 7,0, 7,0h 7,0, 7,0, 16.0 In the absence of a mill test and solube the green rebelule of the U.S. Smett 2 Ref Co isused to armie at an approximate pay - value for on of the finde, asfillows: Silu 5 8,44 on x75', x # 71 191 4.47 Lend & Copper 110 x .75, x \$ ,446 3,68 Bring Copper 29 X . 87 X . 275

Grand 92 X . 60 X 40 X 8.25 .48 2.17 6.34 Bonns 220 × 77 × 2.75 6.78 Tital 25.83 Re indicated project perton prefit petin on the above uned be: Pan Value dens: 3 konden and muliting 19.77 Maring 6:00 Projet. 10.06 In the enert the the propert qualified for additional bornesses for load and zin the above profit monde meterally mereand

ly Cott illemplande due och Commits of Super English There is not pure they if no in sight out in the ruine and the understand on the 75 And lend in the melini shift and, less deady on the 300 Ft. Lund in the Mo. 3 shaft point to only small probable one bodies. The project comments and to discussed lightly on this uncertain : - fthe endere while authentic records of the post performance are not assille the is nir doubt that the properly-line Andrew impetent produced a substantial amount of lead zine and from find a composit of small amount of rein der of prent. While the attack is admittedly speculative the chances seem sufficiently altroth.

to first of special some oblitational mines to further discovered with the one showing and will the presence of one only 170 Ft.

Level.

Rep. shoft to 75' level CO. 75' lead 17 dallo) so feet diff NE 3 contrato from 170' lend \$310-4799-342PL 390 Cu - 8% gm Bandonini says 2 rain come m 170 and on ( & ft ) 5 Ft. 3.60 - 40 egg, - 3 /2 cu - 2 + 2 Pl - 2 - 2 m 13.5 Tars fm. Britshoft 04-1475-3.38 1293 199 notarstands 205' for surface (highest) Represent 106 Ft 384 CO to 170 Ft ful e20 25 - Siddle War Hotel Appell 400 50 Ft. Dift on 300 Russing for Comp. 2 Hot. e 15 Sup. 3 mm @ 200 Unfriseen, mit . It. # -----Repair drift on so It had 400

Dockst Mr B-ND-7892 Dote of Examination, wiel Feb 2 - 4, 1943 Feb 18, 1943 Date of Report ht: The priest me granted a closure the sum of 5,000 on Mor 11 1942. This pringer of the lossy which was to wineste the mine and make the unkning accessible for examination and sampling, has been been exhauted: The borrown has mode application for an additional founds inthe wail to further dealog the property, field examination, made in response to this application Marriand Address of applicant anazossa Molybellem and Copper Co, P.O. Box 1463 Tueson, Origono Correspondent 'Samuel Iserman, prendent, PO.BX 1463 Tucson, arigona

Character of Project Derelopment of Molyboleum -copper deposit. Pocation of Mine: Sec. 89,16,217.
The mine is located in T. 183,R 12 E. Gila and Soft Resignment Prince Prince Muin Just nit Prince Country, arigne. The recount sail point, Continental, mine and the nearest supply point, Plans, is 34 miles distant by road in a northerly direction, The last 4 miles to the your is nothing sauch and ruine road with several short steep grades. The balance of the road is had surfaced well mountained county road except the last 9 miles into Tucion which is pared highing. The road passes through the Turin Butter, in the district of that many 21/2 miles east from the mine 美华 applicant. The applicant-company is a corporation the principal hein Mr. Samuel France president, and his mife Center Freman, seaston - Treasurer. The other officers and stock Rolder one listed in the application troth with the number of shows field by each To date of the for approximately to \$30,000 had been spent up. The from other Than the RFC from Mr. January Rad spent all but \$2,500 meil my this latter

Prieminitor undertalen; the subject development of the ordinat property he had had not preside. He has a beau mend and his manne is ettremely croperate: and these factor to jette mill a person with distributelies the belief that he made le able to competently handle the business détails technical assistance when meeded and eventually to place the operation, mills hands of Am. R. H. Mic gee president of the of operation. He is a member of an old Rauch family of the region. Many years ago when a dimum of the la externa land holdings of the family was made the elocited to pe lieur of a share of the the right of the has property and mind, between periods of Grandlein, & in many districts an ile state and is compilent to handle the non-technical delails of a rune de elopment job. 5 Poar Requested \$20,000

Description of Project A. General Features 1. There are no mine working, mill etc which are not confined within the applicant's ownership. The project complies with state compensation and safety-first statutes 3. a contrarency threatens that part of the growing Runn as the "New years Ere group" a number of pay cetters and paper document reflecting the vasions - rais in opinion in the matter down her forwarded to the Washington and one of the R.F.C. and the reference is made to the doubt doubt files on the subject in that office. Briefly, the owners of the New years Ere group of munical dains entered into an agreement, dated Much 6, 1942, with a Mr. Phippen of los augales looking trond development of the clause. Un Specific Control of the Control of t Phippin made a 500 cook payment inthin 3 muchs trained of signing the agreement as required in the terms of the agreement. Mornifold oth stipulations of the agreement were complied with and in Sept 1942 The owners of the property An Aserman regarder, there same claims. Mental the Physical Comments the Mental Comments of Mental Comments of the Many Comments of the Commen a clas & Development from

C.g. Carl. / Lriega aboutonement of the lease 4. Rere are no miseded right-of way facilities. 5. Here is mer likelikert of surface.

sub-surface tresposs during the project. 2. Existing Development

expected in presently lunder field

expected the Clarks and and found

his assistant, bondlengter, both seven is to

mither. S. o. S. a the property is presently being muche the subject of a U.S: Q.S. field examine and geologic study by Chille Children and This assistant Dond to Kupfer, loth geologists with that department. These parties vere present at the time the account in while is the surface of the work their empire rounds and they assisted and should in the sampling and gathering of data well Their work is continuing and male be made the subject of a detailed report tothe U.S. G.S. The bourance presented with lines its application of Dard parcel from Eight Engineer,

acreamit. anothe report by Cox Soule, The forme report um made prior totle acquestion of the Mer years or group grong folding and concerns only amangorsa and the New years Ere, , , the report My Mr. Scole one the Merryear Ere An Saile also your The The of closes at aboil the same their that rellie Kruege- made her aga -xammation and report (mid-1942) but to date has not submitted his requit. the Maps accompanying this report are made from compare surrege by the engineer and by anderson and Kupfer, and also, the appropriate, from maps furnisted mittle some some report. of claims has been acquired in the company has been acquired in the company has been acquired in the company has purchase on by its colon. O claim may have showith relation of the dain and groups of clavin tes not teen made. Mu Cenderon proposes during the mapping of the surface geology to the his moh in to the vanins claum and this repul mel in their approximately orientation, and relate

by Source at will miles b. Samples were cut as meanly as practical in 1'x 4" channels the 6 Samples were out with pick and moil and gothers on courses. On attempt was made to out channels 1"x 4" in dimension but because of the frequently shottened Thooling nature of The ground they dimension could not de nigidly about to maintained. It is believed homen that a continuous, of senter and that the results were « reasonably representation, may plust the motoril Wight of samples mangel from 50 to 100 ll and . Air of to a reduced by breaking and rolling on the cases to a later 10 lb. fotolo, The workings in the area of the claims fairly good condition. The bolance of the molecular of the property are only portly occusibles hermafter described

The nume is located a low maintainer area leurma. la Sienta mountais. the peoles real section around 6000 ft and use from commen floors and plains surrounding the mountain hair elentions of from 5000 to 3500 ft. The numeron consons will of the range on fail shellows to but the comme will an generally steep. The comment of and plain at the sure de les Ple montains are aid by shorp drawing quelly frequent flest soud, under commenty opening into land soud woles. He geology of the region is described in detail in Mis Saila's report and fruther sures, a noted life above, by the US. S. S. Opriefly, He well mon of the Evente range is a perplometre batite quante which is cut by me in fine que and and deffect to account the friend set Lally the gravities to go for In locality under tudy, and landy coased 4-the cook is more particularly mentioned as a spendy mongonich polary and quitie the county 2 mile in lengt - in a general

cost- west direction and about a mile sail broadly differed minerlyster is menerally in a broadly diffused manner with molybedenite, associated mit chalcopyrite and, surficeally, the oxiderical municipals of copper the ore numerals occur in quat, seamlets and rain and more migrationath in a lange quanty more or play on the Ment year's Ere group of claims. While practically all the workings, prospect cuts, and dumps the property dumps there we table amounts of molybdeinte and copper mineraly the some of this work with the possible exception of That in the quat, plus abre referred to dischoos sufficient concentrations of these metals to constitute alty commercial ore. the property of the applicant- impany comprises the following groups of unpotented claims; Esperano amayour (10 claims), Esperanya (4) New year's Ere (2), Donning (4) and Fortun (3), or a total of zit chain. The olaim.

The olaim. 2) The first muniquembe in the area los done in 1895 on the property wer burns as the Merr year. Ere Mine, and consisted of the min of oxide copper one in a quoth "herr-out area on the Auritoria Sagrange

on the odic of an area of quel, and the singly former propert shoft and it in that Por and arison Can row took on these claims calony with a longer block of ded plant a them and an externic descriptions carry aign mi con wither to procupar large tomage of silicion copper one. a 320

fort sheft was sunk and approximately 3550

feet of trality with in done. Orienterable surface unle in the form of challer shifts of drawned diel holes men pit down. The results men disappointing leave and the work was abandoned. The unle should a wite cornered arathering of copper in small sen- commercial amounts, and it is say small au mils of "graphite". The latter term and doubt welfund to the then little Sonom runical molybdanite. promitte for many reconstitut Rosellitys ver of many molyderite and operations mere resultant man amold a pait of the dump derind from the 50 Ft. Kend malines in the hundren Ere

Mo P a report and authentic luster of the Columnit and auguin Companie with apailable and in an event underta would - Richard legt on the molifdente 1 Fellowing the Calunct and arigon. operation the property lang idle until World War I when its milyhderide pour-ibilities muc recognized and the contraction some unle vis done in the ruine growing to portering-ble heur hear's dump to a will in Trucion. He operation was well successful and wo she'd lived x Le present operations men le que in Opril 1942 on the amongossa - Esperange of clavins and new transferred to the Neur years Ere group fellowing acquisition a pselmin from the purpose survitoring its molerings and molering them accessible for sampling Inhan the Quagoson - Esperange group consisted principally of surlein a shoft on the the bank of Caparas carryon will the from which 27 explore at depth the formable oftheaugh and on the opposite bouch and hillside about Capter course the shaft is such correct to a depill of 92 feet when unk

The winge open a 50 Ft days and a 100 Ft. Lust and commits will a of the main vertice of short (described ) The grante summer the quant, musis banco and the quant, on the turnel lend show protectly me sunealization. In the wings from at about 15 feet from its collar chalcoprite and mobile denile me total 106 FT appear to the 1 quent and continue down to the 106 FT the charge from honger to numeral, quart, is shorp and the accompany on the pulling after point at which miningation degin in clearly mulid by a frame contining copyer sulphite continues for some feet below the point on the sides of the mune. The southwest duft on the +30 50 Ft. lovel enter the grand beyond the quarty ones at 45 ft, from the shoft and the northeast drift encount. the entert at about 60 hast from the shoft. The strike and dip of the enterts are not clearly entert in the because of their migues plant in the cut almost squarely acrostle dufts and to stand about vertically the

balance of the land working one whole, fairly a Chalconite mass. Much denile quarty which is exposed upon the lend The molybdenite occurs in patcher and fine disseminations in fist-sigt masses of nearly pure mulybacinte (State destate of the state of the stat roperet pour lend Choles, july occi Fredrich disseminated manne Expert contente staring is visible and occasionally copper sulplister, particula l'impor jonit seaus and mitte gonge of fault planes. The copper mineralyation Rover is predominantly allerpyite, the oxidate products sen probably him resulted from the many of spreame to an and moister durig the many years att the opening was about that the grown is Kes been open, the opening on the sales de la constante de la co level were sampled by longitudent channel cuts and the heat i 38.16 of the samples him, make and hupon the accompany map. Sample her 10 was a grat from some high grade material in the face of the drift at the design that pint the The the terms of the same of the s Weighted ording of the samples on the end (excluding one 10) is 143°10 Miss and 1.02°10 Cm

Succe the material in the black is below commercial and and at present market price for MoSz the term one " is used advisedly, will the thingst uguay of the might that the need for Moss will justify subsidiration of production, probably in the form fabour price manile to as a local done in the same manner that other strategies minerals.

| 36 .23 .73            |   |
|-----------------------|---|
| 785 34 13             |   |
| 345 40 IS             |   |
|                       |   |
|                       |   |
| ac 22 24 72           |   |
| 345 13 W 34           |   |
| 40                    |   |
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|                       |   |
| 797 26.28             |   |
| 3.70 9.69             | Ť |
| 4.28                  |   |
|                       |   |
| 93 1590 47:37         |   |
| (0.17 Mus_ 0.51 % Ca. |   |
|                       |   |
| 0.172. Mas 10.519. Cu |   |
|                       |   |
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Source with the soft of the state of the source of the sou . 4 p. Dan una a assay malue furthe indicated meight were overing of the win, samples and the SD FX, Poul samples. The 35 about le level my not son pled but suice Earles sente ili aca is strong much and Sale man (cd, b. 1) 170/mose and 1.10% Cu it is assumed that the material here will me stand up to the one --the polarice of the carriers the ming below the 100 Ft. Kamp (or chute from the "200 F7. tend) in co open An som 30 fect below the land. The contact cuts across here on dip below the lend. The grand comes not be closely examined tream of its unsafe 7 1 3 3 9 enditiri. @ The main shoft ( referred to M. W. Jum (16.00) which was such by the columnt on a hench some 20 about the bottom of the gulch and about 250 ft world from the portal of the above described turnel. The shoft of 2 compartments is 220 ft deep with a level opened at the 200 ft. Or drift at this Send has druce in a nosterly distinctions some

(19 A)4 a drift was drien south from the shaft on the 200 Ft. Compland the area beneath the quarty man was expland the mind dift and of 325' from the shaft a raise was but up to a much the both of the shaft of it is said that 6 feet was done smith of the presently accomble fores of the drifts in the one of the nime. The quaty man downt work openings on the level VE out of the main diffe consert a write was put down to a reported depth of 120 ft at a point where a man of quaty un encountered. The quanty and collect with the process show we have numeral potent make about copyride and purply. context with the the grand, form the most well of the drift at the point fra length of some 30 feet. the thickness of the quate meetings is not western the Att down will extend through to the main drift - 50 ft west of they point. The wrige was filled with water and which overflowed the collar at the time of the visit. Am Ouding unites that suce the examination was more the mige was unwatered to 75 feet Hattle material exposed was all gravite with of a from the vivinge was in brunen quarty. (see nest page)

Me The quare, at the head of the ming is runingly of its contact with the gravite and show expressible arimets of abole opinite and some molyblanite, in inspele buches, The we come of the great on Fl. end the language of the about approved the sent metallante sumes lighton Atio said that some on was stopped from the wings and that it was piled in the drift day of the mine (now viacessable) which curres around and ormeto intlithe end of the main drift. colso, it is said that a drift several hundred feet ni length vas drien in a southely direction from this diff and drift and that good copper on with mobile woo exposed in the drift. Mr. Ouderson's observations mi the wrings would not seem to confirm the statement that any unpolant production in mede from the mine author muse un pom the main count about 20 feet most He ringe is said to be so feet deep and to tion produced a could of one. He examination. Then was me on expressed not the tead of the mine of my the grante.

There are to be something the grante.

J. 1. V

3 3

( Return to page 19)

so ship on the MW hillside. He drift is shipt to experimently 26 thelow the colles of this shipt that the drift. Account spore unreadingation is the drift. Account spore unreadingation in second spore unreadingation is second sometimes of moderation of this mature. Second of this mature would need in the class of this mature.

I would need in the second in the class of spore in the class of this mature.

I would need in the second in the class of this mature.

I would need in the second in the class of this mature.

I would need a thing one and the is my printed.

Charles of the state of the sta

( ) On moderne shaft her been put down studeni frostene gone on the edge of the work

mi amorpose quest. He sheft which underes som about 30° mi a south direction in 30 foot deep. Samples & taken by the company at 18 feet in the shoft around ,55 Mos any 2. F. 7. copper across 4 ft. and at 30 ft assayed . 48% Mrs. and 1.41% copper, and a source of the dump son 28% Mirsz and 2.02% Cu. These samples are more particularly described in Mr. Fremans letter of Jan 26, 1943 which is enclosed benth. The shaft was landy felled with water at the time of this examination. a sample (no 4A) was taken by showed from the letter portion of the dump representing material from the lower pail of the shoft. The sample assempt

Sample 3/0 Mrs 82 70 Cm 2A 1.09 .24

Other Summerms shallow cuts and gits on the surface of the property showed nothing of importance of interest to the purpose of this report.

C Proposed Development I The proposed development concerns the projects in the new years & projecting vis: (a) further exploration of the quarty mass by dufting northeast and smillerest from the shift near the love limit of the present one block, and (b) cleaning out ent the dift in the south and of the 200 Ft. Cul. Anthopurpus che le in me voge plus metholie. penistent from any amidence agenting or the and we have the top and he print priestly accomille for filled lovel vole frist part of the proposed beginned logically interested in view of the mittle quarty more. He tem in word advisedly die prosedelity of subside the free or out, do aired meter

fully Saint The development on 50 Ft the mine in the quest, mas industry discloses the mitter and mitter

I was doning of the quant, but no limits on the

MW-SE axis. The surface trace of the axis might be and the first the the the the former NE-SI min I amount of one to be confectural, Happanently quite limited how new of forth that the plue quarty mass does not second extend dom't - thee sor Ft. forly and in an event the miniable peticin more disclosed is not think (about 50 fait) the morning the forder pring, mitte about as much se the sunt level blocks out and the prospect for some so appears reached attent He ore in soch and of the block on this Alv- SE seem to assure that some externa of me will be developed in the direction. The is non for deschoping the willethe quoity man about a much . ( ore m) alittlemes as is presently unlecoled more is the block and the prospect for doing so appears good. ~ The second poil of the proposed develop. ment muld be kight specitation: over world by broad upon vague, but merentheless persistent, Lean-son reports regarding the occurrence of good are common site apprecially molybdut in the

is there are record of the results oftomed in the milling of some of the dump on many years ago the months to be concentrated and of molybden minerels, and chalcopyrite accompanied with a small amount of analochite, all in a clean qualty you Out the Contration of one of the charate into a holk cholcoppite-molyblat concentrate by by followed by concentrate separation of these sulphides wito concentrates of malestable grade in and product with partisfaction recompless ought readily accomplished elsewhere, and should not to present and differentiar in this mistana For purposes of estimation it seems reasonable to essure that 85% of the metals would de remes in a conceiled which for the chalcopile med him a grade of around 25% Cerper, and for the molybdender grade of 90% Mosz. He on the blick under constitution on the Cuthe lasis of these assumptions the gratto m ni He blook under consideration would -25 or 29.4 fuille copper and . 60 x . 86 or 212 for the molythemate.

i. He present over is land, thereone and is men, langely

Near onthe copline and reds 1 15 H.P. Suigle caplinder engine dring about josh pump (rented) 1 Small Jack Pump with online and rodo 1 6 HP surgine dring small took purp 300 Ft. gelming 31/2 pipe 3 1/4 Tons 12 thuis roul

Beside the about there is on the property a considerable quantity of much sing timber, and los pursullaneon tols, and a 1/2 ton Ford 1934 Pick-Up with new engine 2. There is no mill more on the property not applicable Min Equipment and Supplies redom 1 for the project compains the following: 4 - Uned 11/27 on trush 1 - Compusor - + 1 1 - Wrist with care and line Frent Ripe Discout mater Pipe Cen Con Muscellaneons trols and supplies. min the present dord present project. Ruse of brain is aliquety father development project.

7 Mo comp construction is required. The members of the crew line in the outlying district 8 Q 11/2 ton truch will be required. a there is no past performing record upon which to hose a num cost.

The grand is time and be to me of lane divisions, and the spout work? stant fine Taille grapes and filling much not required to maintable unlings. The me could knining and he most cheaply seemed by shinking in large stopes with nonor pillars it widely spored intends. Mining cost is estimated at 1/2 50 per ton.

bed. Cost for drifting reusing and estimates

at #5 per fort e, & Sinhing of mine or shoft is not contemplated in the proposed project. of. Milling cost is estimated at 2 50 perton at 100 pour per day plant n. Trucking cost go to railroad is estimated at \$1.00 per ton of concentrates. i. J. Mileting of Morlyldenide

of a mill will be justified by the results of the development project would be an sough estimited as follows: Aluin, miduding stope propertion 2.50 Mulling 2.50 Superiori and making 50 · Stal 6.00 3. Month premion payroll for state compensation is estimated x \$ 250, pm Que Reserman Proble are and Dumy One Development on the 50Ft. Rend and in the uninge in the quaty mass undicates a probable block of one mither. area. Sampling in the rain mudicity Ut the the thickness of the 50 ft. midth of the one and of the quanty mass in the on its NE-SW axis on the so. It had in defend approximately 100 Ft. Whatel of the une axis at the top of the block is probably the same: The ME-SW the quety man on the 100 Ft. lend will amy about 50 ft.

The lime limit of the horse is 1/3 of the

distance down to the form the 50 Ft lead and the

50 Ft lend and its matth would appear

to de alat the mean later the middle

show that the stop &5 feet. and midtle for Alach - the und to appendicately 90 Tt. Willet on and AMSE asing MoPrinterested Tudicated midtle of the Moule on its NW-SE axis will soft feed in 80 ft. hours the also figures as a boosis for colculation the one probable on block would enten 90x 80 x 50 0 21,700, tous. 9m Janu to This blocker of

X

probable on it ishall be noted that the it is only partially blocked by entirely and one horsailed opening in about its center. A fairly uniform unplies a server of protection for the arun, trong

> The dunp near the main shoft contains in one and approximatel 2,500 tous of material containing an appreciable amont of mot blente. Coppe content is known that the source of this material is not entanily Common of is executed qualities in above de- and did not and from the quarty mand. It is said to le. come from the working in the sor T.T. Paul of the muint proporture glippil 176 me post to senderation of the states with

Mr. Sales report contains a summany of his compling of the question one block in the quanty man, and also tog the mith results from sampling of the duny material described above He arrive at a avenue array for the on block of .82% huss and 1,01%. Cu and of . 56% Moss and . 30% Cu forthe deur material, estenting tommersof. 25,000 tous and 2,400 tous respectively These from compare with secrets + this eight as follows: Partilly developed one block 27,700tm, 0. 46 % Muss - 0.99 % Cu Dung Con 2,500 tora 0,25% Mosz - 0.18% Cu muly blate, are and the Righer Than these obtained in the ale surgerio. Mr. Sarlis son par The during aug mught be explained by a differes in oranging or by the fact that his sample aught has meluded rich acares bunches which were purposely arriled in the necessit on myling In any except the true america put the letince the transits of from, probably softly about ,50 0/0 Mm So and 1,00 % Cm Oren Prolue of this material would write out about as follows:

0.50 × 2000 × 0.45 / p. (1 = 450)

Copper

1.00 × 2000 × 0.1425 (mid.homm) = 2.86

7.35 Estimated Met Dufit -- Preside Yalmang ilm for the of the on orumination of orline Estimated Cost Muin 2,50 willy 150 Aunhiti 50 Only ,00 6,000 estented perfor 456 The appear to be marmable justified. In the expectation that the proposer derelopment in the quanty miss mold mohe analelle an additional tomoge equal and profile smembet greater than that which is presently partilly dereliged in that must whit the many tout to find place the - toledip and espen.

A. The present crew company of men - mifille 1 Superintendent , Worlein fremme 2 Hristman 5 Minin and punchen B. The proposed project contemplates employing a crew of men listed as follows: 1 Superintendent 1 France 2 Hristman 2 Toplanders and roustabints Munes de la company fruiles - -C. Project will make a shift pendan 6 dag per merk Objections to Propert A. There we break or regimel objection to the project. B. The project mild be fearable only under a substantial subsider for molydenm & Dince the expected recommelle value of the one would he just about offert the most operating costs they amount of the subsidy moned

B. The project is expected to make a produce publication adjust of Andrice and copyers.

9 Time Schedule

A. It is expected that the the proposed directory ment project with he competed inthe committee of the dandopment of the produced of the produced of the produced one metals within a spears time. Complete main and of the present minimals proposed described from the prospersed described one about a spear time would be accomplished in about a spear time with a 10 story per day plant on the properties and embrace approximately 3 years time from the present date.

B. Opention and be conducted the year.

a subsidy were granted for the subsider

A. Total Duel print

The program originally discussed pirtle

and listed on his application

the applicant, michigan a considerable

amount of desdopment with fa speculity nature in the south and of the mine upon the 200 Ft. Level. Upon renewing the situation, and in the light of information obtained from Mr. anderson service the time of the examination the engineer is, (the placed upon that part of the min at the tune and that western under done them southable micedented to the main purpose which is to develop and explore the quest, lested for the make in place of the #6000 originally planned, also the amount allowed Recommended desclopment models in an follow Rig. Up, nistell equipment, Projecte 7500 Clean out and trille raine leteren 100 Ft and 200 Ft lends 400 Et. Drift and Consent 400ft onth 65 Ft. Love in Wingi in Questy miss C150 puft Clean and Sund 200Ft. land Purchase of Equip Supplies the 1 Rosh Dill and Minuters 000 Horst, care and line

1600 ft pipe (1"and 2") white 500

とめら

850 pt. Vent Ripe a sid

1 con Can Micellaneon tols 3380 C. Constructioni - none entemplated Dageneral Expense - 4 more 200 per me 80000 2 grommer 3. Compensation is micheles in about from estunition development cost 4. Anterest during project #20,000 (5,000 C'lom plus 1500 deales. ment lom) + mo @ 4% \_\_\_\_\_\_ 1167 E. Contingencies, auto-oppense freight, 15,00 A. Howard when from will be repaid. 1. Repayment of low med he all intarulaily mental of spine price In molyfdenn 2. Project comsages anstruction of will and additional los funds whiled he required to put the property on a producing brain. For purpose of estimation the following tentaturi ettinisti francis on pit fredi.

of Construction of 100 Ton hilly Plant \$0,000 Porce Plant A. Ripe line and pumping Plant 15,000 20000 a. Munic Equipment and housing 10,000 and of development low 20,50 1. molening capital 25.000 30000 20,000 Repayment of development from 10,000 Interest (approx.) 150,000 المنا ليلا dosen the third item about is open to organized and forther and from the surfly of water could be gothered in the vicinity of the mine to furnish and The mine itself mokes about 10 gallons pur muinte and suice it is on the edge of the guld it does not seem likely that any more mater could be developed in the gulch. Other Leen measured further constant flory. Many saels are pumpest only lightly at intermittent internel to the proper stock troops and the fast that They stand full of water is saw assurance that any apprecially amount of water would be drown continuously from them. In any event the gather of rate from many points with separational purpose with reducided pur ping muits and lengthly pipe lines is not prostrail. Ith hen is this engineer's expension that most wells in a notouried dry desert land

ones some debourd the under ground of the promition the promition of a proper contract to the Sante Course mine of a proper contract to the Sante Course mine of miles distort and mistally a purpose plant the tiple it about 1000 feel to the mine.

3 Property would need substantial premuprice to render it self-survaining.

4 General Remak - see below

Dennents of Sergening Engine

The hear board Ere property

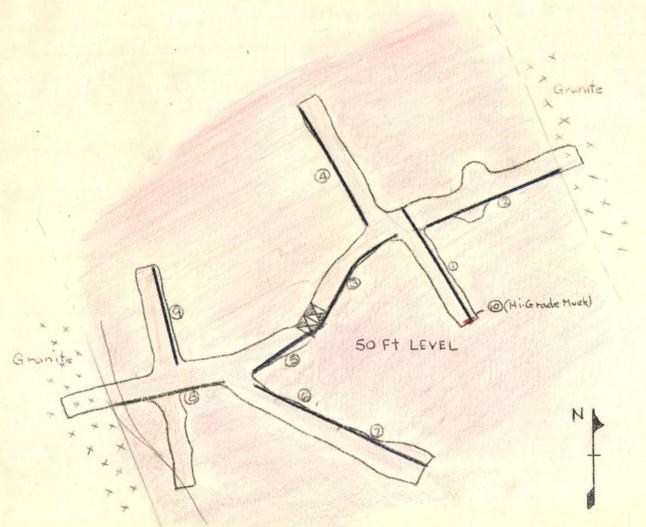
The property contains a partial developed appearant of the solutions of the solutions of the amount of the appearant of the amount of the amount of the amount of the solutions of the event that the development of the manual of the amount of the solutions and that the development over made the amount of the solutions and resulted providing the manual of amiliable of the solutions of the

Commit of Super. The heur year's Ere mine contains a partilly de eliped block of material assaying about 50 Mes. and 1.00 % Coppe en The block is estimated to evolun 25,000 time and there appears to be a good possibilit for welope; air assettenil 'I 5000 on mine in the extension of This blish And the sent that the Back of regular The material is low goods and a milliplant would be needed on the property. Probable recommend of milas from the presently partially dereloped on trother will the on expedies from the proposed development, titaling 5000tons plus, would be no examily 400,000 lbs & Mo.S. and 850000 lla Cy. por direction on totaling scootingles, much le topoute our of troops that mosa and 20,000 00 ... , and y MP Brier the expected value of the recommende metre the metals at privated maked prices would first about offset unterpoler operation cito it is apparent that the project fined not be feasable unco, a substantial subsidy of Mos were granted the front

Suice the expected recommille value if the present matter prices about that if the operation of the property o were granted to the priest. property to just production brack he about \$ 150,000 on \$3.00 perton against the 50,00 tous which is expected to be derent. In addition, Mr a serman, the principle in the Omeroson Coppe and Moderateben Con. some protest in new of the fact that he Lassumed a principal viole in the sum of nearly 425,00 personally wrist of with proct celtically them the subject of the present quits priekter Mosz, mod de regues to make the per sect self-liquidating.

Consideration of the application for branches would depend primarily upon the union of many wild supplied to an and the form of the property o

In the second se



| Samule | Width | 1/20 | 7-11-15. |         |
|--------|-------|------|----------|---------|
| Nol    | 27 Ft | 1.22 | 0.25     |         |
| 2      | 26    | 0.31 | 0.39     |         |
| 3      | 26    | 0.35 | 0.67     |         |
| 4      | 30    | 1.34 | 0.48     |         |
| 5      | 17/2  | 1.00 | 1.06     |         |
| 6      | 19%   | 2,30 | 0.28     |         |
| 7      | 191/4 | 1.46 | 0.30     |         |
| 3      | 2172  | 0.33 | 0.20     |         |
| 9      | 19    | 0.55 | 231      | ,       |
| 10     | Mack  | 431  | 11.32    | (Picked |

Weighted Ax. (excl. No.10): 1.02 .43

DOCKET NO. C-ND-7892

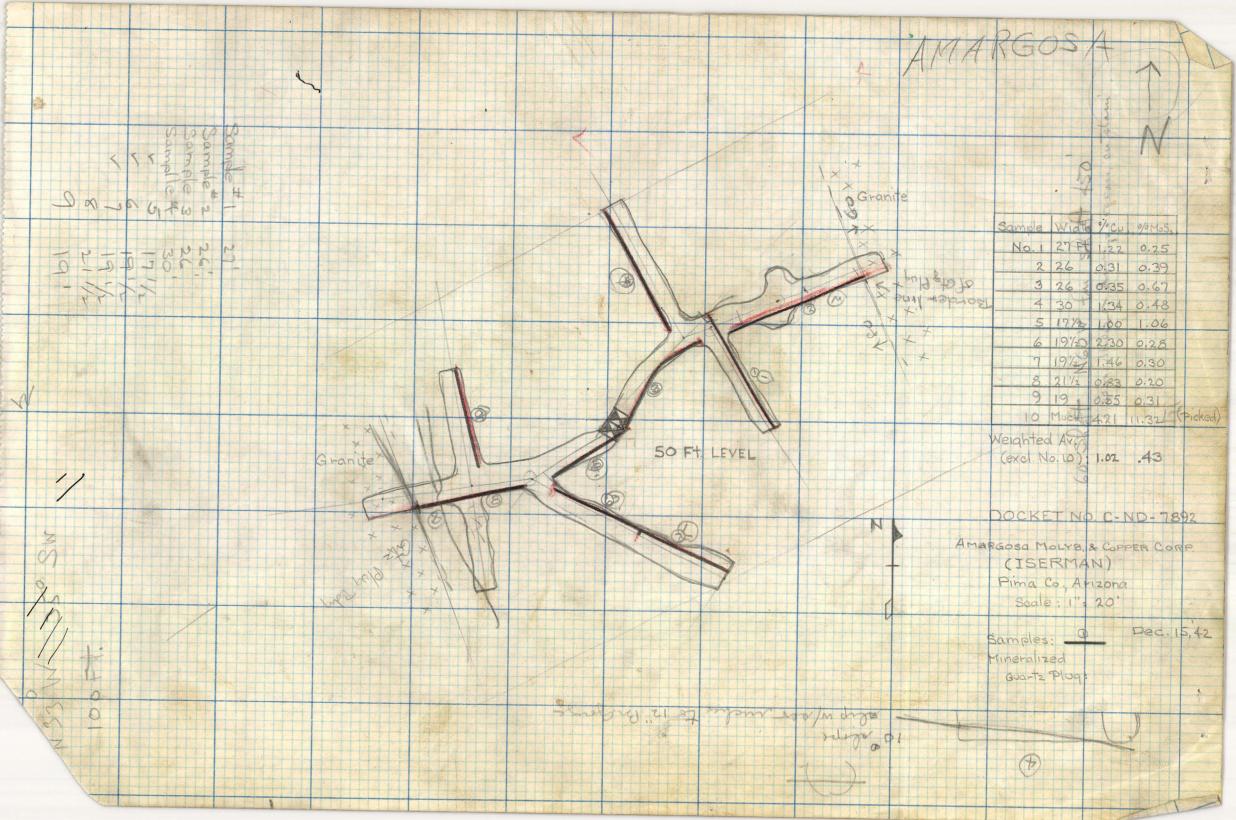
AMARGOSS MOLYB. & COPPER CORP.

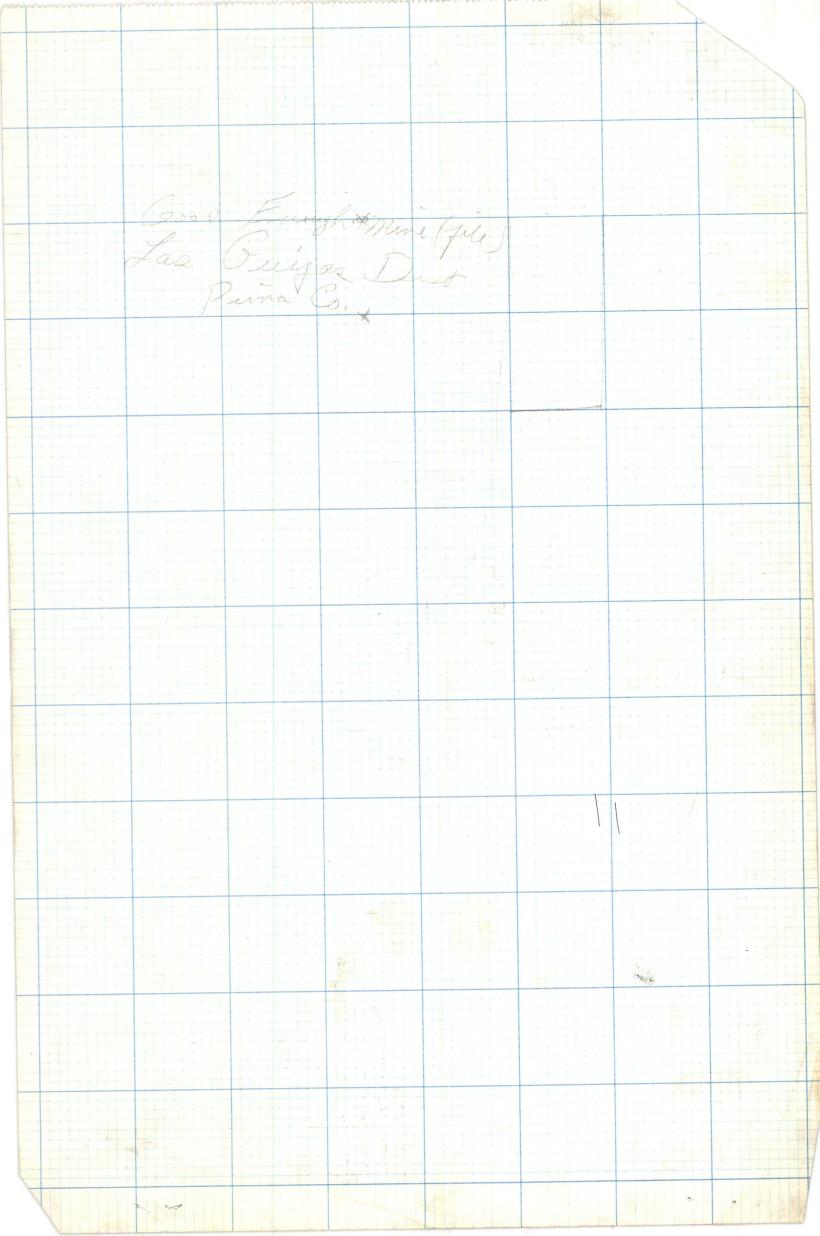
(ISERMAN)

Pima Co, Arizona

Scale: 1"= 20"

Samples: D Pec. 15,42.
Himeralized
Guets Plug:





KEUFFEL & ESSER CO., N. Y. 10 × 10 to the inch.

500 Ft. Sdrift withing for the scattered lead and silve and por con.

all minion wheel during exist deriver is more grobbed whose for wing and cricules drift from ung.

120-110min van Alled 1/70 open. Said olh min 75 feet All W/40 open. Said cerland plurspend from lere.

Jenis P. Leneusalen Technical Consultant Ferro- alloyo Branch W.P.B.;