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October 1, 1942

J. S. Coupal

granted

Tyndall Mining District, Santa Cruz County Reconstruction Finance Corporation Preliminary Development Loan

Big Blue MI

Docket No. Date Application Received Date of Field Examination

BRAATHEN MINE

Phr. 53 September 23, 1942 September 9, 1942 (George A. Ballam) October 1, 1942

Date of Report

- 1. Name and address of applicant (correspondent): Arnt T. Braathen, Amado, Santa Cruz County, Arizona.
- 2. Character of project and estimated cost thereof: Unwater and repair 60 foot shaft and further develop showing copper, lead, zinc, gold, silver ore.
- 3. Location of property: Sect. 15-16-21-22 T 20 S - R 14 E. Tyndal Mining District, Santa Cruz County, Arizona, 10 miles east of Amado in Montoso Canyon.
- 4. Applicant's interest in or ownership of property: Applicant is partnership - Arnt F. Braathen (applicant) and Jane K. Braathen (wife).
- 5. Loan requested: \$5,000.
- 6. Loan recommended: \$5,000.

7. Comments:

(A) Added to this docket is report by George A. Ballam, field engineer for Department of Mineral Resources. Ballam has reported at various times of his discouraging mine operators from making application for loan when in his opinion he did not consider loan advisable.

(B) Ballam advised applicant to make this application whereas information supplied does not fully present conclusive data, I am yielding to Ballam's suggestion and making seconmendation for loan.

(C) The three assays presented and recorded on map indicate mineable ore which can be opened up at comparatively small expense and owner believes he can develop additional ore and start producing at an early date.

8 (D) Property is partially equipped and requires only hoist as major item.

(E) Mine workings should be checked as soon as they are accessible.

ARIZONA DEPARTMENT OF MINERAL RESOURCES

1 1 R. F. C Mining Section Supervising Engineers Report. Tulley - assit chief, Washington D.C. April 13, 1943 Re: Arnt T. Braothen, Docket No C-ND-7823 ND 5399. In regards to your letter of March 24, 1943 requesting equilation of the following noints s points ; Depth of shaft Grade of samples Failure to inducite rein structure. I have some additional data to Submit. Mr. T. P. Lone, Supervising Engineer was going to the vicinity of This mine when your letter arrived and he was Kind enoughto suggest getting desired information. I am sabmitting a sketch he made of the property along with some a ditional assays of samples. Depth of shaft At the time of my examination the bottom of the shaft was measured at 31 feet. Mr. Braathen was holding the tape on the bottom and I at the top. From any observations that was the bottom. Besides there were four people standing.

on the much pipe with an aggregate weight of 600 pounds .. If there was a care below it Certainly would have more a perceptably. However, I was the error as Mr. Braathen has uncovered an additional 13 feet and Mr Lane states he sew an old air pipe projecting up through the much. Thus it is guite possible the shaft is 60 feet deep, but nevertheless the proposed program was not completed it 2 could not see the bottom of the shefts or the drift at the bime Mr. Braathen ashed for the exemination: Mr. Line has shown on Mis map the plan of the shaff at 34 feet. Grade of Somples without a rein structure that was obserable and with sulfides in a pocket all around the shaft at 21 fat, Jan forced to take samples on all sides to indicate the grade of mineralization. Mr. Lane Took three more samples at the present bottom. They are shown on the map. They nould indicate a decreasing grade in mineralization downword, However, Mr Lane his stated to me that the ininerolzotion was not continueous downword from where I sampled. One-foot any from This samples the ore appeared of better grade but two feet away mineral. did not occur Mr. Lone's No & sample was taken from

apparently the grade of one is not as highly metalized as its was neverthe surface, but no doubt to get the true picture of the mineralization the whole of the sheft should be cleaned out. chules a. River 2 <u>E.</u> attachment map myne by m. Jon assay certifiede

ore ready for shipment. Neither the grade nor the amount are Convincing vein structure I failed to indicite a vein structure as a rein structure was not abserrable. This shaft is in the bottom of a dry wash and the vein structure was not indicated on the surface Some funnels approximololy 500 feetaway did show the kin as indicated on my sketch. Mr. Lone has shown the probable Frend of mineralization as observed at the 34 foot level. Comments I trust that the several features discussed are presented Amore clearly. Some times it is difficult to present certain features Servery that are not well defined and can not be argumented from applients statements. The applicant is slightly crazy from prospectors. Jever as one glaves at this application furved suggest something urong with his mentality. It now appears that the shaft is filled with much and not with water and This exhuming of an old shaft can go on indefinetly until the 60 feet is opened.

R. F.C. a --- 14 Mining Division Report of S.C. Docket No <u>C-ND-7823</u> Date of Examination, inclusive Feb 27, 1943 Date of Report March 1943 A preliminary development loon of "2500 was approved to the captioned borrower for the purpose of rehabilitating the shaft and Underground workings of the applicant's lead - zine -Copper mine, erect a barrier to flood waters and to perform additional work on the vein when it became accessible ... applicant wrote this office on Feb 23, 1943 That he was ready for an examination as the money advanced him under a Class C. Preliminary Development Loan was expended. Through the expenditure of preliminary development loan funds the proposed program that the policiant did not open up the full depth of the shaft. The Arizona Mineral Resources Engineer stated that the shaft was about sixty feet deep with fifteen feet of drifting on either side . The shaft measured 21 feet in depth and it appeared that This was the full extent of the shaft, Most of the money was spent in buying and installing equipment, building a roof over the hoist and compressor and building a concrete platform with retaining wall. Applicant did not build a wing dam or creat a concrete collar for the shaft.

Applicant timbered the shaft 20 feet and bailed out all the water. The loan was for the purpose of unwatering the shaft and continuing the drifting from bottom of shaft. Applicant claims the shaft is 55 pet deep with 30 feet of drifting and that the much in the shaft came from retimbering the state 20-feet. His arguerments do not seem to hold water This believed The shoft is but slightly over 21 feet deep. Subject report considers the application of borrower for an additional loon to further develop the workings -1. Name and Address of Applicant · Arnt T. Braathen Amado, Arizona correspondent: Applicint Character of Project To develop lead - zinc - Copper mine Location of Mine In Secs. 15, 16, 21 cm 22, T. 205., R. 146., Typidall Mining District, Santa Cruz County, arizona The nearest railroad shipping point is Amado, ariz, approximately 10 miles away - The first seven miles from amado are ore to a desert county road,

The last three miles are unimproved deserts which Icada over boulder strewn flats and gulches and ends ina steep mountaneous area within one half mile of property. 4. Applicant Applicant does not have an operating personnel. Under the loan he has been doing most of the work. The applicant may be competent to handle lown funds although it appens he has had little operating Experience. 5 Loan Requested \$27,500 Description of Project R. General Features 1. There are no mine workings or other necessary apportenances which are not confined with in applicant's ownership. 2, Proposed project would comply with State Compensation or Safety-first statutes. 3. There are no legal discupancies not covered. 4. There are no impeded right-of-way facilities 5. Surface or sub-surface brespass not likely. B. Existing Development 1. shaft and funnel, a compass and take maps and sections were

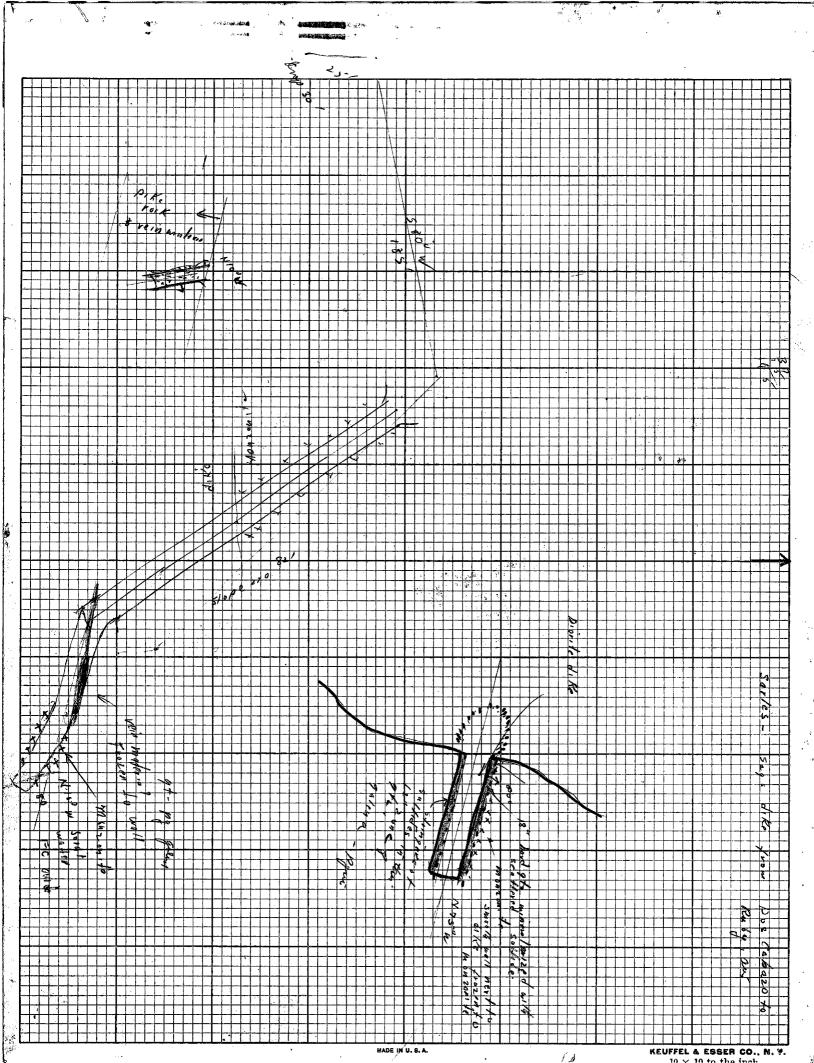
made and are attached to report -Sampling data. channel samples were taken of one exposed in bottom of shaft . They are recorded as follow width Au aque cu Pb 2n No Description South side of shuft 0/ 1.2 ,09% 2.99% 3.5% 50" 1 one foot above muck east side of shuff 45" 01 . 1.4 ,1190 4.35% 6.1% 2 one foot above much norits site of sheft 0/ 0.4 .17% 1.70% 3.9% 72" one foot above mark west side of shaft. 84" 0/ 1.8 ,17% 5.249, 4-6% one fout above much c. Condition and accessibility of mine workings shaft measured 21 feet from coller to top of mucke Arizona Mineral Resources report "Shaft bofeet deep with 30 feet of drifts , d. General Footures of Deposit. The applicants three unpatented lode mining claims, which have been developed by a Tunnel and by a sheft in the bottom Jadry wash, are near the base of Mit. Hopkins in quarte diorite of Mesozoic age. The quarta diorite intrudes the granite, quarta monzonite and upper Paleopoic limestones to the west at the mouth of Montasa Cangon. At the property the guartz diorite is cut by a system of dikerand fissure a mineral bearing fissures trending north N 75 Logree W. This firsing is expired in parte by the applicant's workings

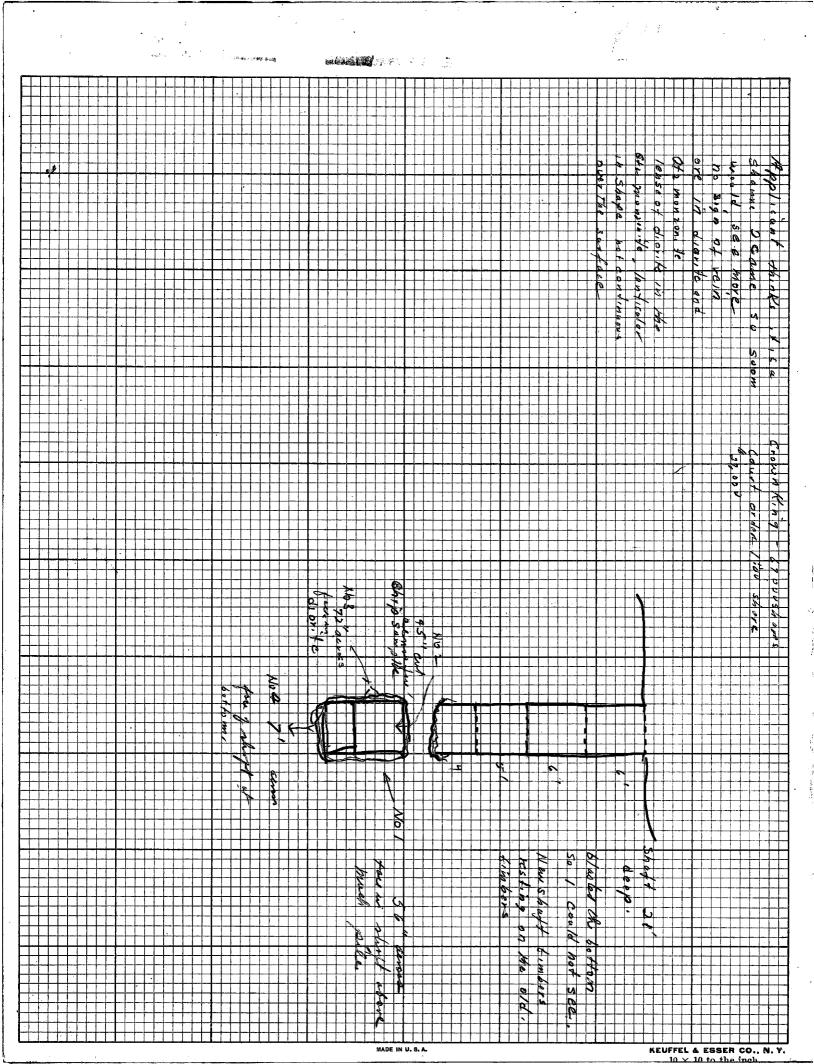
Mineralization Minimization appears restricted to quarte veins varying in width from 12 to A inches on both sides of a dike which was intruded into the fissure .. Altrough the rein doe not shown on the surface where the shaft was sunk appenently sein material unes encounted 20 feet below. A few hundred pounds of ore on the dump rereal both brown and black sphelente associated with cube galong, cube pyrite and minor chalupyrite and dissemination in an altered igneous rock. Some quarter is associated with the sulfites The asseys on four samples taken around the bottom of The shaft reveal very low values in copper and only moderate values in leadand zino, Forthe applicant to ship this type of ore to the Denn Mill in Bisbee, the combined value of the metals must be 15% or better. There is no indication That The grade of the ore sampted will assay any higher than the semples. Proposed Development

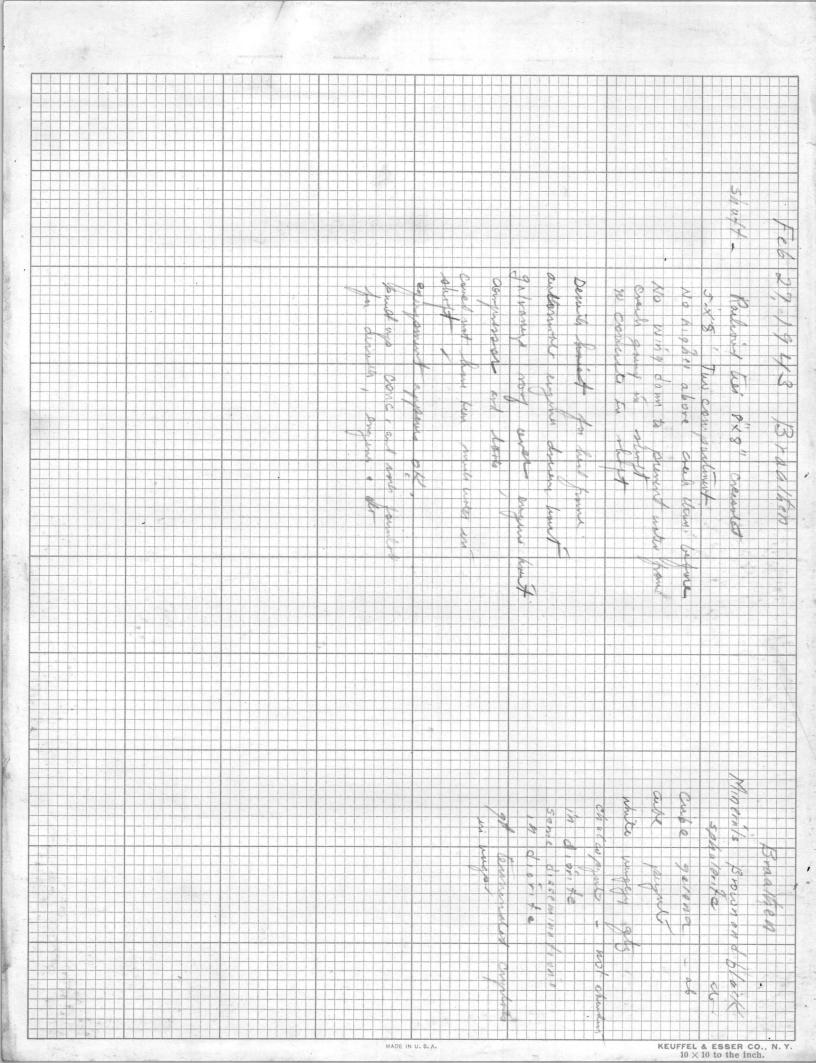
D. Egupment Applicont has a Sampson 10 HP hoist and 16 fort boom with bucket powered by an automobile engine, a 210 compressor powered by another automobile engine, a blower not connected, jackhammer small tools and blacksmithing equipment. Comments of Supervising Engineer. The results of spending 2500 on this property has not revealed any additional information over what was known before the loan was spont. Apparently there was not more than a hat full of water in the bottom of the shaft and the applicant has failed to show the shaft as being bofeet deep with 30-feet of drifting. The shaft was measured 21 feet deep and was bightly boarded from the surface to within 3 feet of the bottom. Four samples were taken an all sides of the shaft and revealed only scent amounts of copper and between 5 and 10% combined lead and zine; an amount too small for transportation to a mill in Bisbee arize There was a small amount of one on the dump, possibily not more them a tow. In the application the applient statis he is getting 15 lows per day. This statement is abound as well as the statement that future production shared be tremer dans ". Such statements reveal that the applicant his very little mining or mingement sense, However, if the applicant can show that he has areas I lead and give that can be sampled

this enjoiner is willing to go and sample them but on the bins one opening a shoft 21 feet deep it is considered that what the applicant proposes to do is prospecting. Chule a Roon altachments Mip. assay autruse

N 3 No 2/ 72" .17 1.70 3.9 45" .11 7.35 6.1 Scale 1 = 10 Shaft Bottom of shaft 21 from Collar -No + 84" 0.17% 5,24 4.6 No1 56" CU Pb In No1 56" 007% 2.99 35 Amadu, Ariz, Feb 27,1943 Arnt T. Braathen Docket No C-ND-7823 Charles a. Rason. 500' East of shaft Plan of tunnel approximately Scale 1"=20' A Q40, 72 Q10, 2 qiorite See See 2 18 " 9×. vein - Dork di Re 12"9t reiti Scaffered Sulfides in streins







Position of Holes in velation to Vein Shown in Longitudinal Section Above

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4

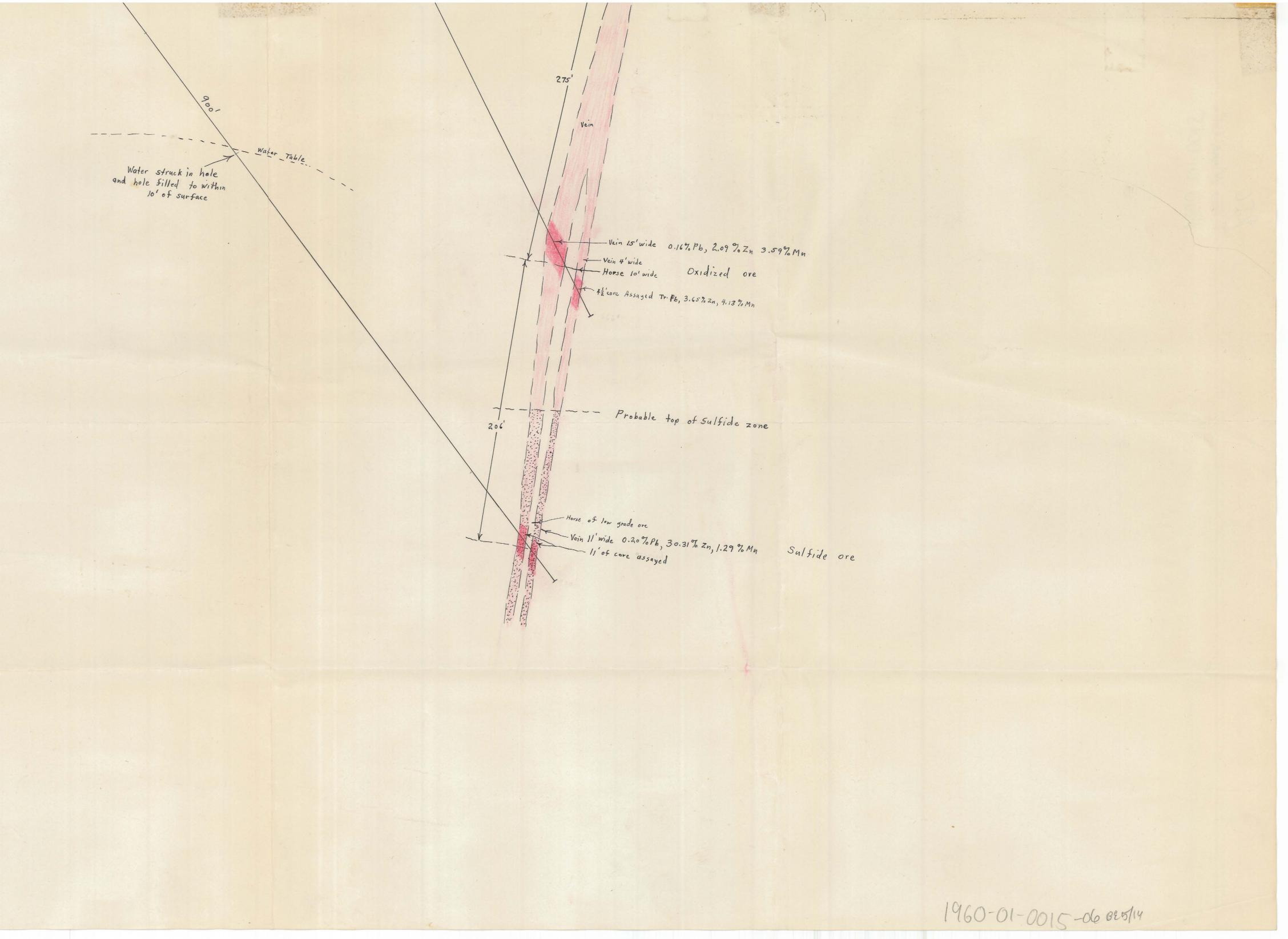
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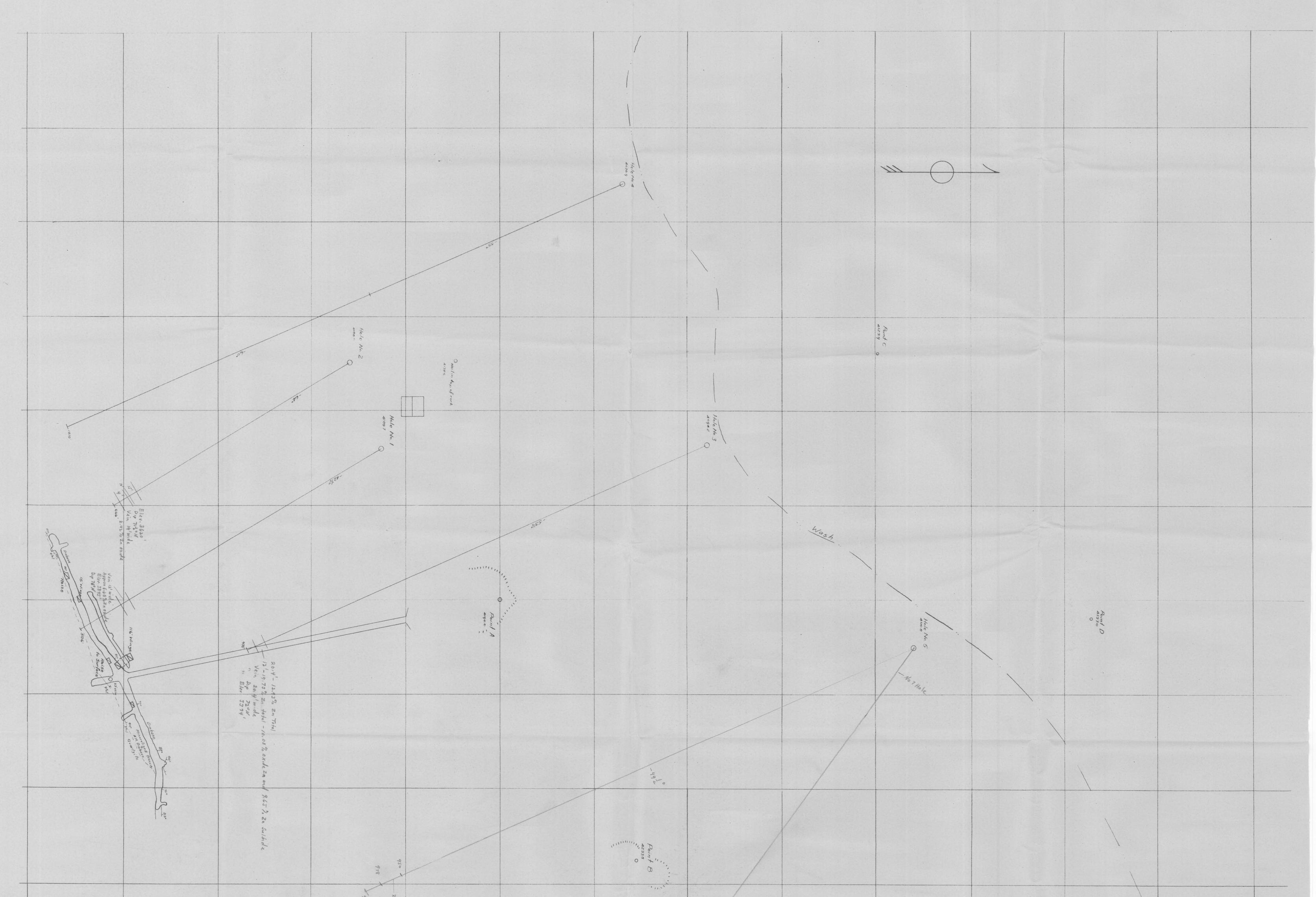
4

⊙K Hole No. 3 Sulfide

×

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	21,2'(950-978) 2n5 2n0 21,2'(950-978) 5.24% 2.12% 6.8'(963-970) Jo.40 3.58 Vein elev. 3350' 760' Vert Vein Dip 800N 999			
	Za 7.362 Helow Coller	450		
IREN Globe - Nap By ''				Point E 1981 0
E MINE Arizono E.L.O. 1960-01-001			Hole No.6 A265	
S-05 BERGIN				

