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Docket ho. Me Date Authorization for Exam. Rich. Date of Examination, incl Date of Report

B-ND-4521 Oct 6,1942 hur 17-181942

1. Manuaud address of applicant

Mami. Eureka Minning zo Mulling Co. Andig) Wedners: P.O. Port 192, Maryola, Augin

Consepondent A.T. Russell P.O. Pork 192 Morales, angin

2 Character of Prized Development of lead-silver deposit.

Mining district, Sauto Cruz Co, anyon. The property is a post of the Boca Flort are old spanish grant. The nearst rail point, Patagonia, is 'It miles east by road from the nume. There miles of this road is pared highery, with the bolance being dist and growled most with the last, miles of which is rough and quite steep. The nearest supply center is beggles, "I miles east by road from the nume. Seventeen miles of this road is pared highery and the bolance is distant of the road is pared highery and the bolance is distant of the road is pared highery and the bolance is distant of the road is pared highery and the bolance is distant order of the road is pared highery and the bolance is distant order of a second.

4

A. The applicant is a corporation composed of 6 stockholders living in anyone and texas. Mrs. a.T. Rusself is the general Manager of the corporation and the Rolder of 20%, of the copital stock. Mrs. Rusself is an elduly mon. As an groung man by which is interest the oil humanism in toxas when and later interest the oil humanism in toxas when and for many years he was a well willing contractor. Several recommendation of the his interest in minima and the formal that the interest in a small my beautiful properties in a small my He has brief several small milling plants. He would have sample and manager to handle a running operation.

5. Itan Requested a Development form in the sum of \$10,000 is requested.

6. Description of Project

A general Features

1. The applicants will is located

upon a perture of the Baca Flood

land grant which is not included

in the to cain hald under

lease. The project amount by

the lesson of the mining claim.

and permission for its use has been

placed granted to the lesses of the of the

mining claims. The same situation

obtains regarding the material and

7

shoft near the side will, these agreements are verted but only but because of old acquaintance into the lesson they are satisfactory to sur. Russell. He states homen that if necessary withen agreement can be oftonied.

- 2. The applicant usual compeninte state compensation and safety-first statutes
- 3. There are no appoint logal discrep-
- A . There are not nimpeded night of way
- 5. There does not appear to have libelihood of sunforce or subsunforce tresposs during the project. (Homen, see "6-A-1" above)
- B Existeni, Darelopment 1. France is opened by tunnel, sheft and minge.
  - a. Compass and tape surrey was mode of
    the accessible makings and the Dillied

    The shall very cropping on the billide

    B. Samples were ant across the rein will

    pick and mind and gathered in cossess

    or caught in a by. Dump sample me

    when without the tailingular, were in

    when yellow the tailingular, were in

    except him the bill to the the

    east end of the turned. The darf her

    with dangerously and and in the bed

    in the extreme and. The shafts from the

surface ask maces while as well as

ports of the slopes.

d. General Features of the deposit ite.

The Baca Floot is an old spanish

grant comprising some good acres of land.

The numberation on the grant, or will as the

right to an contraction with the

Minimal dealog to exploration, any precessor

port of the surfree and the nature that purchased

many years ago by the father of farmer

E. Bouldin the present owners. Various

troats have been measured off into claims

and groups of claims and the at these
al times have been leased to industries

and composites for minimal feared to the ATT.

Rusself and Mr. Rusself in the applicant company, the

Reserved his lease to the conserved of

lease is dated gamany 27 1942). Copins of the lease

and assignment of the lease accompany

this regort, which per

the histor of the district is mesone. In the mainty of the property of the applicant company a large number of parallel quarty reins cut a coarse grante country provide. So of the real dip month at angles from 50 to nearly retried. So reins up to 10 or retrict with the send quart reefs up to 10 or retrict with the send quart series the to or retrict with the send quart series the to or retrict with the send quart Amsert A

a 25 ton flitation of the short and of the tailings in the campon assayed:

Sample la Ozag 20Ph.

( return to page 5)

No The reins are often tracedable with surface rong in widtle from a few inches to book to to the feet hand quarty reefs 10 to 12 feet P the district how has been performent in Morrower reins and these appear to him contributed the major part of the post production Mir record of this producting was amilable at in soil that Munch of the Europe work was done by Maxicans without authority to who on the property. They gonzed the corppins to shellow depths and it is said that much high grade silve one containing appreciable amount of lead has thus remord from the purporty. a shift mean the ste of the prosent will of the applicant - comparry no such tradepth of 440 and a considerable amount of undergrand work woo done as allested by the during at the which which contain approved of 6000 true of material. the Rusself did not know of any production from this shift and appointly little or more made. of the present whip the of taniment of development the district has not made any notable and of production. In the district Forms silve ones and sent me of little or me attention on governto the lead and less See SA Got the present time and the Jefferson A runic losated about 1000 ff mente of the promits which of the applicant-company is disclosed and occasional shipments of lead-silve are are · Lui, made from a depth of 200 feet. Somewhat

further moth to long cross out trimelies was being drive into a ridge to cut served veins which he have protection and nearthe surface di thather good. The two claims held under leasely the applicant company entaring 3 rems ferrom as the Europea, Trusty and South vein the privation workings, and the most recent much vein are only sufficiel Attle on no production les been made firmet. The unknip are coved or slowed in at the surface. The south vein harbern recogn ruged at serial points in the surface and is cut by the main cross out trimel. It has made not production and is not considered unportant. Following is a description of the Eurelea vein and its unleup. The Eucha, is a true fissure in the grante It raries from a few wiches to 5 feet in width. the foot wells as generally firm and well defined. The foot well is the most regular and in places is exposed as a sworth plane. The raise from 50° month to meanly restrict. is generally steeper than above. we there by an unimportant of cholespointe and spholerite. and Printe is rare. and There is with a few foul of the surface of me except of ofedation except within a few feet of the surface.

(see accompany stately) the principal working consist of a cross cut tumped authority the Einelse and Smill feir, some 600

Acet drifting on the very tractioning level white (mossistly)

which connect with the surface, and a shallow viving with a level of the bottom. (fortrolly accessible). In addition there is some stoping has been done on the vein of set lett alm the level and in the minge, Mo & Stope was carried to a height of 52 feet above the level on a 60° slope and was stoped for an army thelen of so" and a stope. entle of 33 feet as included in the Prostically to the Prostically to the prostically the first 9 711 and 12 taken in the stope foresoher Cannot will of ne assay stog of and appropriately pop Ph. Il of 2 cools of one were shipped from here the settlement sheets for which are undules Sample in the supporting data accompanying the M513 application. The present stope focus show marcates that only a nonour will of on assaying 8tr 9 of ag more the and approximatel 87. Plr. love here. Both ent and west of Mr 13 the Mo. 2 stope was mined almost entirely by cein contains of the amount or grade though, Judgen from material ! its size, it present must have purdued several turns as much as that stope! The present operators ruined a few tons have post of which was underded with the shipment from Most stope and pent of which next to the mill. The stope was accessible only in part. Sample hors shows 14" of good on in the fore wear the top of the

stope. prostically continuously 200 feet beyond a point some 20 feet west of the minge. The florr of the drift was is and it water and mor filled with material which was deared out of the drift when the present operators undertook to one-open the ruin. Mr. Russell status that the underhand stope worning places 12 to 15 feel deep but will as and and not be exame I because I was filled with much and water. The ground about the drift is broken out some 10 to 20 feet about the lend and is one was dancer all with many bloods on the for of the drift and out see long bloods apparently the one occurred here so that un remod here oriterally occurred in leures summer to the which were wind in Stopes Mrs. 2 and 2. the the drift anded stope, was mined for a distance of approximately 60 feet about the level with a raise of inditerimente leveth rising from its top. The stope was in And conditions and only of friendly accessible. Samples her 17 and 18 indicate No. 17. apparently served hundred tous were mind from hime. This some is as willed by the form some 300 feet about the lend at the prints the old shoff bottom about on the plates level about 50 feet east of this stope. The ground is had here and the shoft which is in - according could be seen to be open for a crimbally

distance about the level. There is no record of of an unling in this shoft. R the muje below the main lend has been such to a depth approximately 65 feet. The level on both sides of the maje had been underhand stoped deeply has and the present aid not recognize July before they realized their motals the ming is patially deaner and and is accessible to intra stope on the east end. Here a short length of one is express in the books. Samples Auro. 1,2 and 3 show should a good with of rein with home only a sporse sprinkling of galine in a hand cherty quart. The balance of the opening samples almost - little of 30 feet of one assaying as follows: metel Day Ray Sample Mr of 37" 26 Mr 5 17.5 3.81 6.40 No 6 11.4 72 Mo 7 26.6 4.82 21" 4.54 27" (wighter ase) 12.88 an The nest portini of the some port of the mine and is not accessible. It is said that a drift and stope exist next met the here exprising the one of about the same on that which is presently exposed in the east end. The cropping of the rein his heen ruined continuously for a depth of for 10 to 10 feet and length over 100 feet and depth of 10 to 12 feet and a tunnel was drie info on the rein from one of these cuts. The meteril exposed here in the

rein and on the dumps is oxidized and original precises show the -green staring. The main shoft on top of the hill is open to 75 feet but in accessible. The shallow shoft love down the hillis open to the length hat the cellar is not caught up and there are no ladderson the shaft.

## c Proposed Development

I . The applicant - company proposes to complete cleaning and the using, suite the using 35 feet and drift on a meno (100 ft) for f. explore the new by drifting on the new (100 fort) level.

#16,000 on the property must of which was expended from and of the main turned and the main turned and the main turned and the main the company suspended when the natural and the main the property was also also also also and the main the ampount of mind the company suspended when the natural and the company funds were set deploted.

3 Expected Coposity of operations

a. In the event that the proposed disclopment it is planted to hoped

that sufficient one will be blooked out to justife! completing the portional constructed will on while is now on the property. This will is 31/2 Miles by road from the name. Cope it of the formal is estimated at 50 trus prosthous and for suice some sorting appears to be prostrial a mind bed on the same plader in life bed of this amount plader in life bed. It is estimated that drift, crossed and is raise duclopment le adrawed et à rote of 3 feet per 8 hom sluft. e. Mill coposity is estimated at 50 tous per day for the mill was run for only a few hours because of quick exhaustion of the supply of note from a shallow sheft manplete. Mr. Russell presents assay certificates showing table concentrates array from 37.5 to 64.5% PR. assay of tig concentrates and multitails 300 % also one shown. his had will feed 48° 0 assays are given nor tomage esting figures and therefore the figure are meanigless. It should be noted Romen that the one is quite simple one to ancentrate by granty. The galena juitte as is generally quite course and there is producially sir und sulphide, and copper and quie occur in whill amounts. The gangue is a hard quosty with lettle or me clayery material. mitte district Selm i . Ware realgis ranially male to date in the min has been do one contract losis and it is proposed to carry the propsed dudopment formal and this manner.

D. Equipment

O . Equipment on the property at the present time is as follows:

Mining Company

1 +220 Cu Ft. Ingerall Rand Portable Comprise

Pape and rail is mistalled in the present unling and sufficient additional amount is present to handle all the proposed unk

Tools and furge and shapein equipment. 1-16 out to ou can

1 - Small injecter type pump (in minge)

1 - Small preceptorate type single drum an boint

1 - Shop Blog.

1-12x20 Cottoge

Mill Chemolit 1937 Rich - Up truch

1 - Chemolit 19

1- 550 gal Fuel Tank

1- 2000 god Note Tank

1 - 500 gol conculation bouter tanks

2- 7×10" four crushers - one with broken trygle

1 - 1/4" Vibraty screen

1 - set 10" × 16" Mc Farlone Rolls

1 /ston Feed Hoppen

2 - 24" Southwestern Lydraulie jugs

Plato Full size Consentration Table

55 H.P. Primm ail Engine mil dutch

o 5HP 1 - Fairbouls morse & upright gasoline engine 1 - small compressor and tout for starting lange 1 - Die feede - not instelled. 1 - 14" Consegn teltapolles to lopper abre Sine shops, pulleys and betty for above equipment. The will which crushes and grinds dry
The will is rather emaily put togethe
and when med betrouted in spenting at them. apromo leturam must emoline and grunding is my fine one him, ite. as noted alm und 6-C-3-a the mill was time to determine coposity, recording, ete. her will test that heen made on the are and it is questionally not whate a roll or entern that a roll product of plus 1/4" would be sufficiently fine to fee to satisfactory free the galeno. As noted above the one appears to be one which would concentrate readily at a comparation everse grind and if a mill test confine this fast the one could be handled quite obearly, at and it only a comparatively small expenditure more attacking condition. The present project does not home conceaus my mune development and further consideration of the milling problem would be

Quest B

Water The mine makes practically we water and such water as gathers in the minge apparently comes from surface drawinge during rounstoners. the present will on the property had comited upon a shaft on the hill near the mill for its water supply. The is 160 feet deep was exhausted after perend hours smill run.

It is stated that a near hydrety shaft will provide an plattiff supply of water formilliparisons this support this statement it is pointed out that the earlier openities. aparted on the papet, purped inte 中山 from this shaft one a nices over a ridge to their mill and that 当中 红 when this same will was moved to another property in the district the shift with was again used of for milling. The shaft is 440 feet deep and contains conderable undergrand workings as undicated by the size of ने जेव वर्ष dung which is estimated to enitaring upwards of kood tous of material. Incidentally, Im. Rusself did not 1 5 9 9 8 lever of any production him been made from this shaft. 古はまり # 25 gg ( return to page 14

continuent upont development of sufficient 14 3. Mot applicable at the mini Equipment required much be a follow: 2 Roch Drills and mounting Dull Steel 2 on mehits Mise Tools. he will equipment meanually under the present project. Shop and tool house at present located at the portal of the main the in adequate. No other ruine housing foreliting would be required. Housing for several men is available at the comp near the mill . This is on property of the losses belonging to the lesson but not uncluded in the applicant - company lease. a small cottage is located at the postol of the main tunnel and another should I mould be required see 14A) 8 Diplicant com Mo other equip-ment suspenditures uned be re-quired quied Cost Estemates a. Ming Colination that 50 per ten, there is no performance record upm which to base

aming and estimate. The rein is monor and the one shoots are silly the small and disconnected. Some light sorting out of about borren from to prisent time Probably the cost for milled or slopped would be around # 2 00 per ton of one milled or shipped. b.c.d. Cost of diffuing, cross cutting and raise. Cost for sinking the 1/2 compat-ment uning an additional 35 feet is estimated at #2500 per foot. f. See alere "e" alone. of. Milling cost is estimated at 1.50 perton. Trucking cost to railroad at Potagonio is sestimated at \$ 1.50 perton Freight rate from Patagonia to for one not exceeding \$2000 per ton in value. Rate for concentrates will seem be several dellars light depending upon the Value and world of the concentrates, unburn at present. Smilter Treatment change for treatment is 3.50 per ton bose with a to to one not exceeding 150 per to mand. moreous at 10% of the value in excess of #15 per ton to a maximi change of 500 per ton.

Fralty is 15% of het smalle for crude one shipped and 10% of net property or sold to cultim plants.

I the mine will not require tumber for atoping except for an occasion stull for plotforms, and for dutes. aregon Rice costs approximately 70 per ton delinerar

My tod thing not is thingted 300 to Supply to the Cool

M. Total costs count be astunated alosely
in the present state of development of
the property. They would probably be
about as follow:

Development 1.50

Aprilling 1.55

General 50

3 Deproximate monthly premin on Pay Roll for State compensation is estimated It \$ 200.00

Ora Reserves

1. The condition of the name together with the look of information regarding post operations makes estimate of probable one in the various blocks difficult. In Alork A (see siden) the surface was

Net Value at Rail head : 4.20 Lens Royalty 15% Munipherelopment & gone 4.50 Trusking 8,10 8.10 Profet 6.10 silm out of it 60 % for fentium to continue of the of something the continue of the south of the If mulled on the property a recorn, of 80% of the silve and lead in a 60% lead consentrate would seem to be a reasonable assumption (Mote comments abre under "6-C-3 efg.") and profit per ton would work out about as follows: Value of lead Concentrate 53.75 Lead - (60% - 1.5) x 2000 x 90 x (6.56-1.56) = 28.96 Brus 1053 lhe 2.75¢ == 8455 Silver 16 x 85 x 9.4 x .95 x 69 7 = = 167.26 Swelle payment for metals Les: treatment 5.00 5 Freight 4:50 (est) Trusking - 1.50

het Value at tuine

156.26 Value petonofore: 9.4 (Returbence)

# 15626

: \$16,62

Milling Dendopment and general 4,500

Milling 1.70

6.00 Estimated Rufit perton \$10.62 4. The sinking of the minge all additional 35 Hand difting 250 Han anew less from the bottom much explore a block of ground 250 mi length by 100 ft in height less a small amount of underland stoped on the main level. The small area Prening stoping distribution in the minge with a down one more mi sight as represented by samples how. \$, 5, 6 and 7 together with the fact of the underhand stoping in the drift main drift suggests that the block will furnish a fair amount of one. Because of the tregular occurrence of the one in small shorts, and the temporarbelity of taking to samples in the land diff floor underhand stopes on the drift floor and in the uning it is not possible to calculate the tornage of one mor grade I which model be made available by the proposed work. However, 1000 tons, possibly more would not seem to be an a reasonable expectation. grade and width ought to be at least equalitathat show by the pamples motes above or: (arevage) midde og og 9. Pt 27" 12088 4.53 bred upom sampling of grand In appraising autrespoted one values, it should be noted that works in the past was hampened by loile of working capital and

consequently there was a tendency to mine the fores to a puick on to leaver one or both. It is possible the first over-all melies until sampling.

Employment

A. Work has been suspended upon the property because of lock of funds.

B. The project contemplates employing a crew of 8 men as follows:

1 13000

2 Minn

2 Muches

2 Honst 1 Tram

Total 8

c. The project contemplates when 2 shifts 6 days per week

Objections to Project

A. The no local or regional objection;

B. Project would produce an appreciable amount of lead rate of output at present colculable.

CP. Time Schedule 9.

A. Project should be completed within 6 months time.

B. Operations moned be carried on the year - round.

c. with famable results from the proposed development the project built to repay the boar within 18 months.

800

10,000

# 10 Estimated Cost of Project

A. Derelopment Recordation and clean out ming 1000 Such munice 35 fet @ 25 put 275 Drift 250 feet@ 150 perfort 3750

Raise 100 feete 120 perfort 1200

B. Equipment 2 Rosk Dulls

Rock Dull mountings, hose etc. 300

400

Dill Stul 50 2 come hucherto 50

C. Constructioni

1 Cottage at mine

300

D. General Expense

1 Superior 6 mos 200 pms. 1200

2 frisurence 100 100 3 Compensation- midwided inderelop-4 Interest during project ment cost

\$15,000,6mme670 300

E. Contingencies

Freight, auto expense, engineery, un-

475

Mature and Somes of Revenue

A. I. Property would become selfonstaining during the great of development pesults

2. Second (class A) bran is not

contemplated 3 Property should be self sustaining

fundly.

at end of 15 months.

Bonnetts of Superming Engineer

This page not final

The rein in motson, the one shoots are small and unegularly placed and the one is of only medium grade. Success of the enterprise would depend upon the frequency of occurrence of shoots or leuses of one in the area to be developed. Offsetting an admittedly uncertain orthodo in this regard is the fact that a certain production of lead is assured from a number of for present foces in the ruine. Inthout furancial help of some sout this lead will not reach the market. It is with this latter thright in rund and further, the belief that the chances for dueloping an appreciable tomage of one are reasonably good that this engineer recommends that a development low be granted.

It seems probable that mulling of the one, probably at intermittent internel depending upon the rate of supply of one, and note, much be practical matterial of not a laber in the study of the state of the intervals. Intermittent milling (pronding mill test supports the belief that the mill more on the property will make a satisfactory recome) is practical in new of the surger vatine of the flow sheet and the tipe of the one, i.e. compede guiding of a monaclassy water of containing a single sulplike golden - in crosse form. coarse dry gruding and granty concentration; of a non-sluving material containing a single sulphide tulk sulphide (golena) ni crome form.



