Form MF-108
Revised Oct. 1957

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1035.3
Approval expires June 30, 1958

RECEIVED DEC 13 1957 D.M.E.A.

APPLICATION FOR AID IN AN EXPLORATION PROJECT

PURSUANT TO DMEA ORDER I, UNDER THE DEFENSE PRODUCTION ACT OF 1950, AS AMENDED

NAME OF APPLICANT (Full legal name and mailing address as it should appear on contract if one is executed)

Big Horn Locating Co., Inc.
865 So. Lake Street
Gary, Indiana

APPLICANT NOT TO USE THIS BLOCK

Docket Number: DMEA-4897
Date Received: 12/13/57
Government Participation %:
Region: III
Division Code: 700

BUSINESS ORGANIZATION (Check one)

- Individual [ ]
- Corporation [X]
- Partnership [ ]
- Other (Specify) [ ]

State in which firm is organized: Delaware

LIST CORPORATE OFFICERS OR PARTNERS HERE, IF APPLICABLE

Name	Address	Title
Kenneth P. Harrington	865 So. Lake St., Gary, Indiana	President and Treasurer
Jerome Hirschfeld	Lake Shore Drive, Gary, Indiana	Secretary

Mineral(s) for which you wish to explore: Monozite and Beryllium

Estimated Cost of Project: $ 150,000.00

LOCATION OF PROPERTY

Name	County	State
Porcupine Group (1 thru 9)	Big Horn	Wyoming

GENERAL INSTRUCTIONS

Before filling out this application, please read DMEA Order-I, Revised, "Government Aid in Defense Exploration Projects." To assure prompt action, your application must provide all applicable material and information specified on the back of this application form. Avoid unnecessary correspondence and delays by submitting complete and accurate information. *Please submit four copies of this application and all accompanying papers* except as otherwise noted. Place your name and address on each sheet. Each item of information, maps, and reports required as a part of this application is described on the back of this form. Identify each attached statement by the item number to which it applies. If an item does not apply to your application, show the item number on your statement and after it write "not applicable." Maps or sketches should be used to supplement narrative descriptions of the property location and boundaries in item 1, existing mine workings and geology in item 2, and the proposed exploration project in item 4. When this information is not too complex, all of it may be shown on one map or sketch. All documents and other attachments submitted as a part of this application, except those in item 2(g) which you mark to be returned, become the property of the Government and will not be returned to the applicant. Send true copies, *not originals*, of leases, contracts, and other documents which are an essential part of your business records. *File this application with the Defense Minerals Exploration Administration, Department of the Interior, Washington 25, D. C., or with the nearest DMEA Field Office.*

CERTIFICATION

The undersigned, whether as an individual, corporate officer, partner, or otherwise, both in his own behalf and acting for the applicant, certifies that the information set forth in this form and accompanying papers is correct and complete, to the best of his knowledge and belief.

December 12, 1957
Dated

Kenneth P. Harrington
BY (Signature)

President and Treasurer
Title

A wilfully false statement or certification to any Department or Agency of the United States Government is a criminal offense. U. S. Code, Title 18, Sec. 1001.

INFORMATION REQUIRED WITH THIS APPLICATION

1. *Applicant's Property Rights:*

(a) State the legal description (section, township, and range; metes and bounds; patent number of claims) of the land upon which you wish to explore and all land adjacent to the proposed project area which you own or control. Describe any part of the project land or workings which should not be subject to Government lien for royalty payments. If the land consists of unpatented claims, state the book and page number for each recorded location notice, including amended locations, and the place where recorded (courthouse, recorder's office, county, and state).

(b) State all the names by which you know the property.

(c) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise. If you are not the owner, submit with this application one exact copy of the lease, contract, or other document (with address of owner) under which you control the property.

(d) Describe all liens, mortgages, or other encumbrances on the property.

2. *Physical Description:*

(a) Describe in detail and illustrate with maps or sketches all mining or exploration operations which you know have been or are being conducted upon the lands, including existing mine workings. Describe all production facilities.

(b) State your interest, if any, in operations stated in 2*(a)*.

(c) State, as far as you know, the past and current production, supporting your statement with copies of settlement sheets, mine records, or published data if available.

(d) Describe known ore reserves on the property giving quantities and grades and sampling methods used, supporting your statement with copies of assay certificates and assay maps if available.

(e) Describe by narrative and maps or sketches the geologic features of the property, including ore minerals, geologic formations if known, and type of deposit (vein, bedded, etc.).

(f) State your reasons for expecting to find ore, and if you have sampled the area you propose to explore, show where the samples were taken, describe sampling methods used, and provide copies of assay certificates.

(g) Send with your application at least *two* copies of all geologic or engineering reports, assay maps, or technologic information which you may have, indicating on each whether you require its return to you.

3. *Accessibility of Project:*

(a) To aid DMEA representatives who may be required to examine the property, state the name and address of the person who will meet the DMEA representative; give directions for reaching the property; and describe accessibility of the property including the mine workings.

(b) Name the shipping and supply points and places where employees reside and state the distances between them and the property.

4. *The Exploration Project:*

(a) Describe fully the proposed exploration project giving individual footages and sizes of openings *for each item of work.* Use narrative, maps, plans, and longitudinal and cross sections as necessary. Show the location of the proposed work as related to geologic features such as veins, ore-bearing beds, contacts of rock formations, etc. Show also the relation of the proposed work to any existing mine workings and to *property boundaries* or to the closest identifiable corner.

(b) If an access road to the project must be built, show the location on the property map and state the length, type, and construction methods proposed.

(c) In the event that an exploration contract with DMEA is executed, how soon will the work start and how many months will be required to complete it? State your anticipated average daily or monthly rate of progress for each type of work.

5. *Experience:*

State your operating experience and background with relation to your ability to carry out this exploration project, and also that of the person or persons who will supervise the operations.

6. *Estimate of Costs:*

Furnish detailed estimates of the costs *for each item of the work proposed in 4(a)* under the headings listed below with a total for each heading and the estimated total cost of the project. Costs for any work to be performed by an independent contractor should be shown separately under category *(a)* below. Costs for any work that is not to be performed by an independent contractor should be given in detail under categories *(b)* through *(g)*.

(a) Independent contracts. State the cost of any proposed independent contract for the performance of all or any part of the work, expressed in units of work, such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, per cubic yard of material moved. Cost estimates should be supported by bids from three contractors if possible. *(Note* – If none of the work is to be contracted, write "none" after this item.)

(b) Personal services. For necessary supervision, engineering and geological services, and labor, include an itemized schedule of numbers, classes, rates of wages, salaries or fees, and periods of employment. State whether these technicians and employees are available.

(c) Operating materials and supplies. List items of material and supplies with their cost. Include under this heading power, water, and fuel, and units of equipment and tools costing less than $50 each.

(d) Operating equipment. List items of operating equipment to be used giving specifications and indicating how each item is to be acquired – i.e., rented, purchased, or provided by the applicant. If it is rented or purchased, state the estimated rental or purchase price. If it is to be furnished by the applicant, give its present fair market value.

(e) Initial rehabilitation and repairs. Describe the type and the cost of necessary *initial* rehabilitation or repair of existing buildings, fixtures, installations (exclusive of mine workings), and movable operating equipment now owned by the applicant, which will be used on the exploration project.

(f) New buildings, fixtures, installations. Describe each building, fixed improvement, and installation to be purchased, constructed, or installed for the exploration project stating specifications and cost including labor, materials and supervision.

(g) Miscellaneous. For the operating equipment listed in 6*(d)*, describe the type and estimate the cost of repairs and maintenance expected during project operations. Do not repeat initial repairs listed in 6*(e)*. Show also the costs of analytical work, accounting, workmen's compensation and employees' liability insurance, payroll taxes, and other required costs that do not fall within the previous categories.

Note – No items of general overhead, corporate management, interest, taxes (other than payroll and sales taxes), or any other indirect costs, or work performed or costs incurred before the date of the contract, should be included in the estimate of costs.

7. *(a)* State whether you are prepared to furnish your share of the cost of the proposed project in accordance with the regulations on Government participation stated in Sec. 7 of DMEA Order–I, Revised.

(b) Explain to what extent you propose to furnish your share of the costs by providing money, by use of equipment owned by you, or otherwise.

* * * * *

INT.–DUP. SEC., WASH., D.C. 25960

Information Required for Application of

Big Horn Locating Co., Inc.
865 So. Lake Street
Gary, Indiana

for:

AID IN AN EXPLORATION PROJECT

Pursuant to DMEA Order 1, under the Defense Production Act of 1950, as amended

---

INDEX

1. Applicant's Property Rights.....Page 1

2. Physical Description..... 4

3. Accessibility of Project..... 6

4. The Exploration Project..... 7

5. Experience..... 8

6. Estimate of Costs..... 8

7. Applicant's Financial Participation. 11

Prepared and Submitted by:

Kenneth P. Harrington
865 So. Lake Street
Gary, Indiana

1. Applicant's Property Rights

(a) All property involved is situated in Big Horn County, Wyoming, and more particularly described as follows, to wit:

TOWNSHIP Fifty-six (56) North, RANGE Ninety-two (92) West of 6th P.M.

Section One (1)

Four Placer Mining Claims in Porcupine Group No. 1, located as follows:

One covering the Northeast Quarter (NE¼)
One covering the Northwest Quarter (NW¼)
One covering the Southeast Quarter (SE¼)
One covering the Southwest Quarter (SW¼)

each comprising 160 acres, more or less.

Section Twelve (12)

Four Placer Mining Claims in Porcupine Group No. 2, located as follows:

One covering the Northeast Quarter (NE¼)
One covering the Northwest Quarter (NW¼)
One covering the Southeast Quarter (SE¼)
One covering the Southwest Quarter (SW¼)

each comprising 160 acres, more or less.

Section Thirteen (13)

Four Placer Mining Claims in Porcupine Group No. 3, located as follows:

One covering the Northeast Quarter (NE¼)
One covering the Northwest Quarter (NW¼)
One covering the Southeast Quarter (SE¼)
One covering the Southwest Quarter (SW¼)

each comprising 160 acres, more or less.

TOWNSHIP Fifty-six (56) North, RANGE Ninety-two (92) West of 6th P.M.

Section Fourteen (14)

Four Placer Mining Claims in Porcupine Group No. 4, located as follows:

One covering the Northeast Quarter (NE¼)
One covering the Northwest Quarter (NW¼)
One covering the Southeast Quarter (SE¼)
One covering the Southwest Quarter (SW¼)

each comprising 160 acres, more or less.

Section Eleven (11)

Four Placer Mining Claims in Porcupine Group No. 5, located as follows:

One covering the Northeast Quarter (NE¼)
One covering the Northwest Quarter (NW¼)
One covering the Southeast Quarter (SE¼)
One covering the Southwest Quarter (SW¼)

each comprising 160 acres, more or less.

Section Two (2)

Four Placer Mining Claims in Porcupine Group No. 6, located as follows:

One covering the Northeast Quarter (NE¼)
One covering the Northwest Quarter (NW¼)
One covering the Southeast Quarter (SE¼)
One covering the Southwest Quarter (SW¼)

each comprising 160 acres, more or less.

Section Three (3)

Four Placer Mining Claims in Porcupine Group No. 7, located as follows:

One covering the Northeast Quarter (NE¼)
One covering the Northwest Quarter (NW¼)
One covering the Southeast Quarter (SE¼)
One covering the Southwest Quarter (SW¼)

each comprising 160 acres, more or less.

Section Ten (10)

Four Placer Mining Claims in Porcupine Group No. 8, located as follows:

One covering the Northeast Quarter (NE¼)
One covering the Northwest Quarter (NW¼)
One covering the Southeast Quarter (SE¼)
One covering the Southwest Quarter (SW¼)

each comprising 160 acres, more or less.

Section Fifteen (15)

Four Placer Mining Claims in Porcupine Group No. 9, located as follows:

One covering the Northeast Quarter (NE¼)
One covering the Northwest Quarter (NW¼)
One covering the Southeast Quarter (SE¼)
One covering the Southwest Quarter (SW¼)

Each comprising 160 acres, more or less.

The foregoing descriptions designate the land included under said Notices of Location of Placer Mining Claims and include unplatted lands lying on lands which, if platted, would correspond to the foregoing legal descriptions.

There is reserved and excepted from this conveyance that certain Placer Mining Claim named and known as April Fool Placer Mining Claim, as recorded in the Office of the County Clerk of Big Horn County, Wyoming, at Basin, Wyoming, in Book 16 of Locations at Page 432 thereof.

Of the above-described property there is none which should not be subject to Government lien for royalty payments.

The above-described land consists of unpatented claims, and the following are the book and page number for each recorded location notice, to wit:

To date there have been no amended locations and all recordings have been made at the courthouse located at Basin, Wyoming, the county seat for Big Horn County in the State of Wyoming.

(b) To date the only name attached to this property is the Porcupine Placer Mining Claims one thru nine (1 thru 9).

(c) The Big Horn Locating Co., Inc. is the sole owner of these claims by virtue of a quitclaim deed, a true copy of which is incorporated into this brief and designated as Exhibit "A".

(d) There are no liens, mortgages or other encumbrances on this property.

2. Physical Description

(a) During the operating year of 1956 Walter R. Ziebell, geologist and mining engineer of Miami, Florida, was employed as consultant by Big Horn Locating Co., Inc. for the purpose of analyzing the Porcupine Group properties. Mr. Ziebell visited the property on two occasions in 1956, and on his second trip located a series of borings he wanted made for the purpose of evaluating the ore in this area immediately above Porcupine Falls and upstream for a distance of approximately one mile.

A map, complete with details, is included herewith and designated as Exhibit "B".

The analysis of the samples taken as shown in Exhibit "B" is the factor responsible for our wanting to further develop the possibilities of this land.

To my knowledge there have been no other extensive mining operations conducted on this exact property; but in years gone by the old Fortunatus Mine operated at a location only four miles from this property. The Fortunatus, being a gold mine, derived its values from the deadwood formation.

(b) The Big Horn Locating Co., Inc., as stated in 2(a) was responsible for and paid for the development work under the direction of Mr. Walter Ziebell.

(c) In that there has been no past nor current production from these properties, I am unable to furnish any data whatsoever.

(d) To date it is impossible to qualify known ore reserves on the property due to our development work being in a primary state.

Fifty 100 lb. samples were sent to Mr. Ziebell's laboratory at Miami, Fla. It is Mr. Ziebell's opinion that of the five 100 lb. bag samples processed to date, the ore values are sufficient to warrant further exploratory and development work.

I have not ordered the balance of samples assayed until such a time as the future planning as to the development work for this land is complete.

(e) This property under claim is located at an elevation varying from 9,100 ft. to 10,300 ft. in the Porcupine Creek valley and adjoining land. The entire mining operation would be of the placer type in that the ore body in question is made up of sand and gravels, together with some clay, as deposited through the many years of erosion.

Another reference to Exhibit "B" will assist in defining the geologic features of the property.

(f) We are basing our reasons for expecting to find ore on this land on the findings and analysis of Mr. Walter Ziebell, whose background is most extensive in the study of the rare earths.

We have taken samples from the area that we propose to explore, and these locations are defined in Exhibit "B".

To date we have not compiled any assay certificates, but all samples are still intact in Mr. Ziebell's laboratory at Miami, Fla. There is considerable cost connected with the assaying of these samples, and in that these fifty specimen would not be conclusive as far as proving this property, I have not ordered this assay work completed. Thus, I can produce no assay certificates.

(g) There are no such maps or reports available from our files; however, much of the information given in the above sections is relative to section (g).

3. Accessibility of Project

(a) Any of a number of persons employed by, or being a part of Big Horn Locating Co., Inc. could arrange to meet a DMEA representative to aid him in reaching and examining the property. It is my contention that I should personally meet the representative on his first visit and introduce him to Big Horn personel who will provide any assistance needed. The following are the names and addresses of those who will probably assist in this project:

Kenneth P. Harrington	865 So. Lake St. (President)	Gary, Ind.
Walter R. Ziebell	Research and Development Corporation (Consulting Geologist)	Miami, Fla.
Leif C. Bergslien	Route 1 (Project Superintendent)	Hobart, Ind.
Robert R. Schalk	(Camp Maintainence)	Lovell, Wyo.
Harry Lemparis	(Comptroller)	Chicago, Ill.

Property can be reached by following State Road 14 west out of Sheridan, Wyoming, or east out of Lovell, Wyoming. Turn north off of said route at a point 2000 ft. east of the intersection of State Road 14 and Medicine Wheel Road, which is a well-marked side road leading to a national monument. Upon leaving Route 14 it becomes apparent by numerous signs that you are travelling a road maintained by United States Forest Rangers for purposes of patrolling the area known as Big Horn Forest Preserve. You proceed on this road and turn left at the first intersection. Follow this trail for a distance of approximately 3 miles to where claim postings show that you are entering the property of Big Horn Locating Co., Inc.

Further penetration of the property is possible by following this trail which paralels Porcupine Creek and lies one-half mile northeast of same. This trail offers access by automobile to the center of the property, but the outlying quarter-sections must be reached by pack horse or jeep.

(b) The center point of the claim lies 47½ miles from Lovell, Wyoming, and 62 miles from Sheridan, Wyoming. As a result of past experience and general inquiries it is our contention that ample labor can be secured from either of these two points. Same towns could act as supply points.

Due to the mountainous terrain between Lovell, Sheridan and the mine site, and thus the time required to traverse this route, we feel it would be necessary to reactivate the existing camp.

4. The Exploration Project

(a) At this instance I would prefer to confine my thinking relative to the proposed exploration project to that land which makes up the bed of Porcupine Creek, together with the accessible slopes on either side of this low area.

This is the same land from which we have extracted a limited amount of samples, and which Mr. Ziebell feels we should concentrate on to continue with the development work. It is estimated that this creek valley contains sufficient ores to permit us to carry on a normal mining operation for 12 years.

In that placer type of mining will be employed thru this entire area, our exploration will be confined to borings, with and without casings, to longitudinal trenching, and in some cases, open excavations.

In the higher areas on the slope where water did not affect the digging operation, we have found that underlying these gravel deposits there exists a decomposed layer of granite up to 30 inches in depth. We have been successful in removing sections of this granite with a dragline operation.

In estimating the amount of ore in this creek valley the counting was made of the large boulders and granite outcroppings throughout the area.

Again I refer you to Exhibit "B" to assist in understanding the area that we feel should be explored.

All of the above-mentioned area is accessible either by truck or jeep from a trail mentioned in Section 3-a.

(b) For the purpose of exploring the area referred to in Section 4-a, no access roads will have to be built.

(c) In the event that an exploration contract with DMEA is executed, it is the writer's contention that exploration work will start in June, 1959, and that it will require two operating seasons to conclude this work.

At this time it is quite difficult to anticipate an average daily or monthly rate of progress, but it is our opinion that after the planning is finalized, adequate supervision appointed, the drilling, trenching and analysis work can all proceed concurrently.

It has been our experience from the past years that the operating season in this area runs from June 15th to October 1st. An average of four-tenths of a day per week was lost due to weather.

5. Experience

(a) This proposed venture shall be carried out by Big Horn Locating Co., Inc., of which I, Kenneth P. Harrington, am the majority stockholder and president. This automatically puts me in a position of control relative to the administration and futuring of Big Horn Locating Co., Inc.

I am the sole owner of Shamrock Engineering, a firm employed in heavy construction projects. This firm owns and operates light, intermediate and heavy construction equipment.

I am active in and head Shamrock Engineering, together with various other corporations and interests which I either own wholly or in part.

I am not a graduate engineer, but have had eighteen years experience brought about by developing and running my own firm. I do have in my employment five graduate engineers who cover the various phases of construction.

During the period that Big Horn has been interested in this property I have made an average of six field trips per operating season for the purpose of administration and planning the work.

To the best of my knowledge the development work will be carried on under the combined efforts of Walter Ziebell, certified geologist, and Leif C. Bergslien, who has been employed by me as a construction superintendent for the past five years. Mr. Bergslien was also in charge of development work to date.

6. Estimate of Costs

(a) Currently it is our thinking that the only work to be contracted to independent sources will be the initial layout work. A local firm employing a registered civil engineer certified in the state of Wyoming, could take over this detail. I feel a firm of this caliber should be used to reference the boring locations with the existing claim stakes, and in turn to validate both. It is estimated that the cost of this service should be $8000.00.

?? Due to my not owning a drilling rig I would sublet the core drilling to a qualified contractor. I estimate that we will drill 4,000 ft. of exploratory borings at an approximate cost of $8.00 per ft., totalling $32,000.00

It will also be necessary to contract for the services of a qualified laboratory for assaying the concentrates to determine values. I estimate this service to run $10,000.00

(b) The following is a breakdown of the personel I feel will be necessary to carry out this development work:

Catagory	Number Needed	Monthly Wage	Months Employ	Total Cost
General Supt.	1	$1000.00	10	$10,000.00
Engineer	1	600.00	10	6,000.00
Geologist	1	1000.00	10	10,000.00
Laborer	8	480.00	10	38,400.00
		Total		$64,400.00

From the contacts I have made in previous years I feel the necessary technicians and employees will be readily available.

(c) From past experience we have found we can operate a camp at a cost to us of $100.00 per month by back-charging each man a specified amount for room and board. The labor rate set up in Section 6-b is adequate for the employee to absorb this back-charge. This arrangement would call for a camp operating cost of $100 per month for ten months, totalling $1,000.00.

Fuel for camp generators, vehicles and excavating equipment we estimate to cost $30.00 per day, or $800.00 per month. Ten months would total $8,000.00.

Miscellaneous supplies needed for all phases of work, and costing under $50.00 each, I feel could be procured and maintained at a cost of $200.00 per month, the ten months totalling $2,000.00.

Due to the broadness of this heading I believe that a contingency figure of $10,000.00 for the ten operating months should be included.

The accounting of Section 6-c shows a total estimate of $21,000.00

(d) The following are the major equipment items to be used in the development work:

A drill rig capable of operating an 8 in. drill to a maximum depth of 50 ft. Cutting head to be diamond-edged for coring of boulders and solid granite. As stated in Section 6-a I propose to acquire the use of this piece of equipment by subletting the drilling

to a qualified firm. Rental paid for this drill rig will be predicated upon footage drilled.

A three-quarter dragline crawler crane, diesel powered, will be used for the longitudinal trenching. This piece of equipment will be furnished by the applicant and has a present market value of $26,700.00.

We will also need the services of an 85 hp. diesel powered bulldozer for purposes of grading temporary access roads, backfilling, etc. This piece of equipment shall be furnished by the applicant; it's present market value is $21,000.00.

To serve all phases of the development work a four-wheel-drive truck or jeep will be needed. This truck will have to be equipped with fuel tanks, greasing equipment and supplies, plus miscellaneous tools necessary for isolated maintainence. The applicant will furnish this unit, it's market value being $8,000.00.

(e) Big Horn Locating Co., Inc. has erected and owns two frame buildings, centrally located on the property. One building is a bunkhouse capable of sleeping twelve men. The other is a combined kitchen and mess hall with a serving capacity of eighteen. Both buildings are partially equipped, but will have to be rehabilitated before being put back into service.

Ground improvements, such as clearing, driveways, parking areas, fuel rakes, equipment shelters and drainage have been constructed in the immediate area of the two above-mentioned buildings.

A spring with ample fresh water supply has been piped and valved for camp usage.

It is estimated that $8,500.00 would be sufficient to rehabilitate and maintain the personel area for the two operating seasons.

Relative to movable operating equipment now owned by the applicant, it is understood that such equipment furnished by the applicant will be in first-class condition, and that no expenditure will be necessary for repair of same.

(f) If reference is made to Section 6-e, it can be concluded from the description and information given therein that no new buildings or installations will be necessary for this development work.

(g) In that we will be paying for the core-drilling on a per-foot basis, it can be concluded that all maintainence on this piece of equipment will be borne by the sub-contractor owning same.

In that the crane and bulldozer, which will be furnished by the applicant, are substantial pieces of equipment, we can estimate from existing cost records that the maintainence work and repairs to the crane will run a maximum of $60.00 per month. Maintainence and repairs to the bulldozer will run a maximum of $125.00 per month. These figures do not include labor as the labor cost was accounted for in Section 6-b.

Truck maintainence, including rubber, should not exceed $50.00 per month.

Cost of analytical work and accounting were also included in the payroll figures itemized in Section 6-b. From past experience we find that payroll burden for the mining industry will run 11½ percent of gross payroll. This should give us an approximate payroll burden of $7,800.00 for the two operating seasons.

7. Applicant's Financial Participation

(a) The funds necessary for the applicant's share will be made available by myself and the balance of the stockholders.

(b) As noted in foregoing sections of this application, the applicant proposes to furnish certain equipment and improvements for this development work; it is my feeling that an equitable cash allowance should be credited toward the share of costs to be borne by Big Horn Locating Co., Inc.

QUITCLAIM DEED

KNOW ALL MEN BY THESE PRESENTS, That we, LEIF C. BERGSLIEN, ALICE G. BERGSLIEN, GARTH WILHELM, RENA D. WILHELM, ROBERT B. SCHALK, GRACE G. SCHALK, SEVALL W. HEMNESS, and ALLENE HEMNESS, all of Big Horn County, Wyoming, as Grantors, for and in consideration of One Dollar ($1.00) and other good and valuable considerations to us in hand paid by BIG HORN LOCATING CO., INC., a Delaware Corporation with its principal office at Gary, Indiana, the receipt of which is by the execution of these presents confessed and acknowledged, have remised, released, granted and forever quitclaimed, and by these presents do, for ourselves, our heirs, executors, administrators and assigns, remise, release, grant and forever quitclaim unto the said BIG HORN LOCATING CO., INC., the Grantee herein, its successors and assigns forever, all such right, title, interest, property, possession, claim and demand as we, the said Grantors, and each of us, have or ought to have, or may or might hereafter acquire, in and to all placer mining claims, and in and to all rare earths and all other valuable minerals in and under those certain lands included within said placer mining claims locate, situate and being in Big Horn County, Wyoming, and more particularly described as follows, to-wit:

TOWNSHIP Fifty-six (56) North, RANGE Ninety-two (92) West of 6th P.M.

Section One (1)

Four Placer Mining Claims in Porcupine Group No. 1, located as follows:

One covering the Northeast Quarter (NE¼)
One covering the Northwest Quarter (NW¼)
One covering the Southeast Quarter (SE¼)
One covering the Southwest Quarter (SW¼)

each comprising 160 acres, more or less.

Section 12

Four Placer Mining Claims in Porcupine Group No. 2, located as follows:

One covering the Northeast Quarter (NE¼)
One covering the Northwest Quarter (NW¼)
One covering the Southeast Quarter (SE¼)
One covering the Southwest Quarter (SW¼)

each comprising 160 acres, more or less.

Section Thirteen (13)

Four Placer Mining Claims in Porcupine Group No. 3, located as follows:

One covering the Northeast Quarter (NE¼)
One covering the Northwest Quarter (NW¼)
One covering the Southeast Quarter (SE¼)
One covering the Southwest Quarter (SW¼)

each comprising 160 acres, more or less.

TOWNSHIP Fifty-six (56) North, RANGE Ninety-two (92) West of 6th P.M.

Section Fourteen (14)

Four Placer Mining Claims in Porcupine Group No. 4, located as follows:

One covering the Northeast Quarter (NE¼)
One covering the Northwest Quarter (NW¼)
One covering the Southeast Quarter (SE¼)
One covering the Southwest Quarter (SW¼)

each comprising 160 acres, more or less.

Section Eleven (11)

Four Placer Mining Claims in Porcupine Group No. 5, located as follows:

One covering the Northeast Quarter (NE¼)
One covering the Northwest Quarter (NW¼)
One covering the Southeast Quarter (SE¼)
One covering the Southwest Quarter (SW¼)

each comprising 160 acres, more or less.

Section Two (2)

Four Placer Mining Claims in Porcupine Group No. 6, located as follows:

One covering the Northeast Quarter (NE¼)
One covering the Northwest Quarter (NW¼)
One covering the Southeast Quarter (SE¼)
One covering the Southwest Quarter (SW¼)

each comprising 160 acres, more or less.

Section Three (3)

Four Placer Mining Claims in Porcupine Group No. 7, located as follows:

One covering the Northeast Quarter (NE¼)
One covering the Northwest Quarter (NW¼)
One covering the Southeast Quarter (SE¼)
One covering the Southwest Quarter (SW¼)

each comprising 160 acres, more or less.

Section Ten (10)

Four Placer Mining Claims in Porcupine Group No. 8, located as follows:

One covering the Northeast Quarter (NE¼)
One covering the Northwest Quarter (NW¼)
One covering the Southeast Quarter (SE¼)
One covering the Southwest Quarter (SW¼)

each comprising 160 acres, more or less.

Section Fifteen (15)

Four Placer Mining Claims in Porcupine Group No. 9, located as follows:

One covering the Northeast Quarter (NE¼)
One covering the Northwest Quarter (NW¼)
One covering the Southeast Quarter (SE¼)
One covering the Southwest Quarter (SW¼)

each comprising 160 acres, more or less.

The foregoing descriptions designate the land included under said Notices of Location of Placer Mining Claims and include unplatted lands lying on lands which, if platted, would correspond to the foregoing legal descriptions.

There is reserved and excepted from this conveyance that certain Placer Mining Claim named and known as April Fool Placer Mining Claim, as recorded in the Office of the County Clerk of Big Horn County, Wyoming, at Basin, Wyoming, in Book 16 of Locations at Page 432 thereof.

Hereby releasing and waiving all rights under and by virtue of the homestead exemption laws of the State of Wyoming. And the Grantors herein, each for himself and not one for the other, hereby specifically state and claim that they, and none of them, ever had or claimed to have had any homestead rights in and to the said hereinbefore described lands, or in any part or parcel thereof.

TO HAVE AND TO HOLD the said premises unto the said Grantee, BIG HORN LOCATING CO., INC., its successors and assigns, to its and their own proper use and behoof forever, so that neither the hereinbefore named and designated Grantors, nor any of them, or any other person or persons, firm or corporation in their name or behalf, or any of said Grantors or any other person or persons in their, or any of their names or behalf shall or will hereafter claim or demand any right, title or interest to the premises or any part thereof, but they and every one of them by these presents shall be excluded and forever barred.

IN WITNESS WHEREOF, we, the Grantors hereinbefore named, have hereunto set our hands and seals this 31 day of Oct., 1955.

In the presence of:

Garth Wilhelm (SEAL)
Rena R. Wilhelm (SEAL)
Gerald W. Hemmes (SEAL)
Ellen Hemmes (SEAL)
Robert B. Schalk (SEAL)
Grace G. Schalk (SEAL)
Neal Bergsten (SEAL)
Alice J. Bergsten (SEAL)

STATE OF WYOMING,)
(ss
COUNTY OF [redacted] Park)

I, A.L. Graham, a Notary Public in and for the county and State aforesaid, do hereby certify that before me this 31 day of October, 1955, personally appeared Leif C. Bergslien, Alice G. Bergslien, Garth Wilhelm, Rena D. Wilhelm, Robert B. Schalk, Grace G. Schalk, Sevall W. Hemness, and Allene Hemness to me personally known to be the persons whose names are subscribed to the annexed and foregoing instrument of writing, and acknowledged that they executed the same as and for their free and voluntary act and deed for the uses and purposes therein set forth, including the release and waiver of homestead rights and exemptions under and by virtue of the laws of the State of Wyoming.

Witness my hand and notarial seal this 31 day of Oct., 1955.

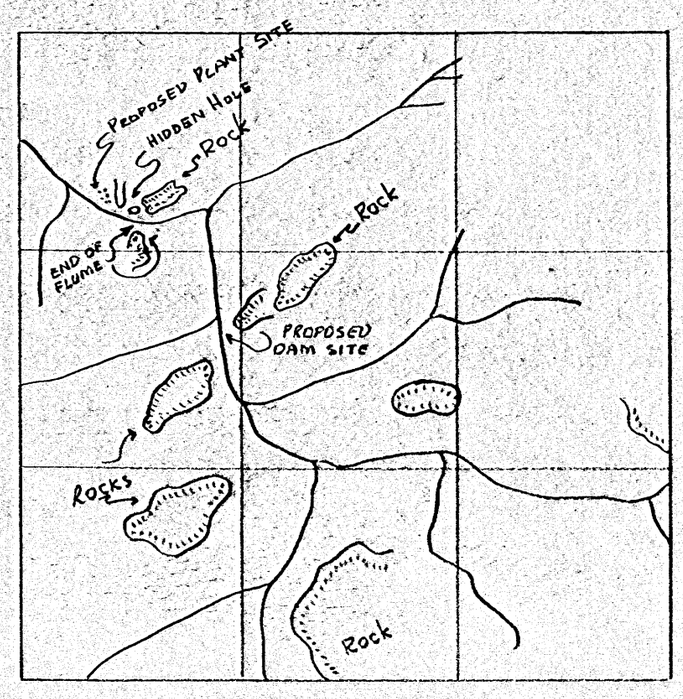
A.L. Graham
Notary Public.

My commission expires July 16, 1958.

EXTRA COPY
DREA
RECEIVED
DATE | CODE

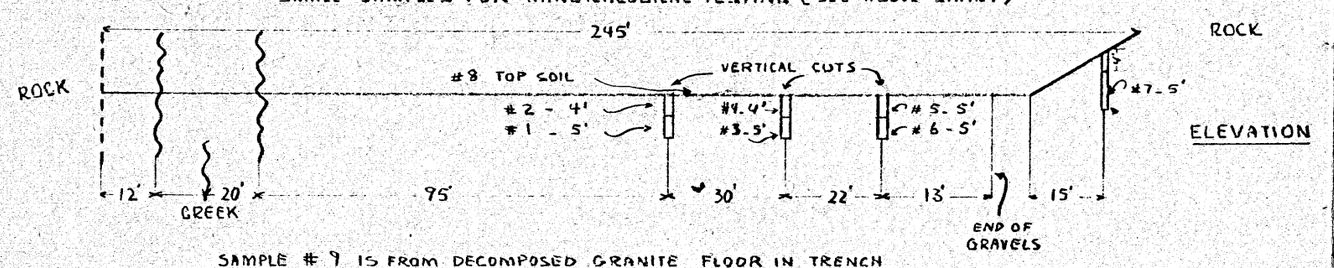
Exhibit "A"

PORCUPINE CREEK VALLEY



SAMPLE NUMBER	PLUS 1" DISCARDS	1st QUARTERING DISCARDS	2nd QUARTERING DISCARDS	FINAL SAMPLE WEIGHT	
1	8 LBS. 3 OZ	22 LBS. 0 OZ	8 LBS. 1 OZ	4 LBS. 13 OZ	2 BAGS
2	11 " 11 "	15 " 1 "	4 " 12 "	2 " 0 "	1 "
3	6 " 2 "	18 " 4 "	5 " 10 "	2 " 7 "	" "
4	9 " 9 "	27 " 13 "	7 " 12 "	2 " 9 "	" "
5	11 " 13 "	15 " 11 "	4 " 10 "	1 " 10 "	" "
6	2 " 6 "	26 " 7 "	6 " 8 "	2 " 6 "	" "
7	1 " 6 "	14 " 4 "	3 " 14 "	1 " 15 "	" "
8	0	3 " 14 "	0	1 " 13 "	" "
9	1 " 3 "	12 " 14 "	4 " 8 "	2 " 3 "	" "

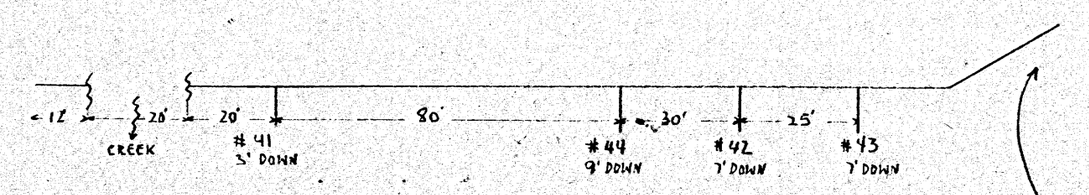
SMALL SAMPLES FOR MINERALOGICAL TESTING (SEE ABOVE CHART)

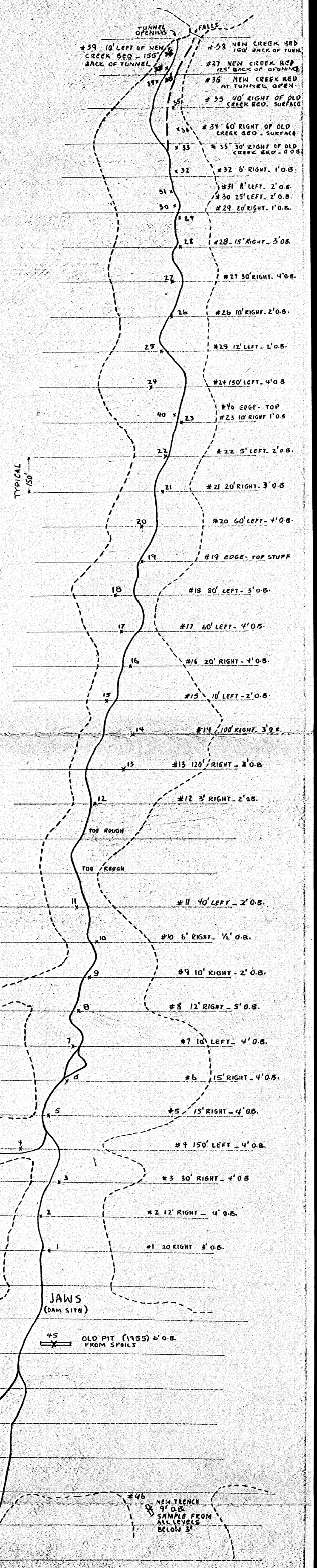


SAMPLE #9 IS FROM DECOMPOSED GRANITE FLOOR IN TRENCH

IN SAMPLE #8 _ NO GRAVELS, CHECK PRIMARILY FOR MONAZITE!

CONTINUATION OF 50 LB SAMPLES FROM TRENCH ACROSS VALLEY



DEPTH OF TRENCH DID NOT EXCEED 9'-0"

HARRY N. LEMPERIS OCT. 31, 1956