Bob Eveleth

Federal Records Center

OME docket 6403 (Silver

David Robinet Bepley + Anton Mack

Union Mining Company

Twin Peak Claims

Grant County, New Mexico

FRC Only Agency

16

Accession No 57-73-025

Record Group 57 Container 15

Title Location 14:43-23-50

4203 Suitland Rd.

Suitland Md.

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
WASHINGTON 25, D. C.

OME
DEPARTMENT OF THE INTERIOR
MAY 17 1965
REGION III
DENVER, COLORADO

MAY 11 1965

Orion Mining Company
6394 South Clarkson Street
Littleton, Colorado 80120

Re: OME-4403 (Silver)
Orion Mining Company
Twin Peak Claims
Grant County, New Mexico

Gentlemen:

Careful study of your application for financial assistance in exploring the subject property and of other information available to us indicates that the probability of disclosing significant ore reserves on the property is not sufficiently promising to justify Government participation in the proposed exploration. Accordingly, we regret to inform you that your application for exploration assistance is denied.

Sincerely yours,

George Fumich, Jr.

Acting Director

MMerrithew/mm (5/11/65)
cc: Director's Reading File
✓Region III
Review Committee
Docket
120M

Bldg. 20, Denver Federal Center
Denver, Colo. 80225

May 4, 1965

Memorandum

To: George C. Selfridge, Chief
Division of Exploration Operations
Washington, D. C. 20240

From: Acting Field Officer, OME, Region III

Subject: OME-6403 (Silver)
David R. Perley and Anton Mark
dba Orion Mining Co.
Twin Peaks Claims
Grant County, New Mexico
Report of Field Examination

Attached are the original and one copy of the Report of Examination on the subject property by Robert L. Reimer, Mining Engineer, U.S. Bureau of Mines.

The Field Examiner found no suitable exploration target and he recommends that the application be denied. I concur in this recommendation.

ORIGINAL SIGNED BY

Hugh M. Connors

HMC (5-4-65)
cc: M. H. Salisbury
File
Chron

Bldg. 20, Denver Federal Center
Denver, Colo. 80225

May 4, 1965

Memorandum

To: Acting Field Officer, OMM, Region III

From: R. L. Bolmer, Mining Engineer

Subject: Field examination of GMX-6403 (Silver)
David R. Pufley and Anton Mark
dba Orion Mining Co.
Twin Peaks Claims
Grant County, New Mexico

The Twin Peaks Claims, Grant County, N. Mex. were examined April 7, 1965 in response to the subject application for financial assistance in minerals exploration. Shallow exploration of three purported silver-bearing veins on this undeveloped property, by 1,200 feet of diamond drilling and other work costing an estimated $22,000, is proposed by the applicants. The field examination was made with Mr. Anton Mark, one of the applicant partners.

The applicants are the locator and sole owner of the Twin Peaks Claims - a group of six contiguous unpatented lode mining claims - in the Black Hawk (Bullard) district of western Grant County. These six claims are laid out around the common corner of secs 16, 17, 20, and 21, T 18 S, R 16 W, New Mexico principal meridian, at an elevation of 5,500-5,800 feet, on the northwestern flanks of Twin Peaks. The property is just outside the main Black Hawk district as defined in U.S. Geological Survey Bulletin 1009-K. Twin Peaks is a local landmark in the northeastern foothills of the Big Burro Mountains, Gila National Forest, about 14 miles west of Silver City, N. Mex.

Features of the main Black Hawk district, including geology, history, production, mine workings, and so on are detailed in Bulletin 1009-K and will not be repeated here. Twin Peaks represents a Tertiary monzonite porphyry stock intruded in Precambrian quartz diorite gneiss. The claims are located largely in the gneiss, near or adjacent to its contact with the stock.

Most of the claim area is covered by shallow alluvium which supports rather thick brush and considerable scrub timber. Good exposures of bed rock are found only along the gullies and dry washes extending from the main Black Hawk Canyon. All such gullies and washes cutting the four northeasternmost claims on which exploration is proposed were traversed during the examination. Although claim corners and discovery notices were in evidence, no discovery pits or other evidence of surface prospecting were observed.

Surface indications of the two major faults, which the applicant shows extending northerly across the claims, were not found. It is probable that the heavy black lines shown on the applicant's map are merely inferred structures projected from the geologic map of the district in Bulletin 1009-K.

A number of more easterly trending shear zones in both the gneiss and the porphyry are exposed intermittently in some of the gullies and washes. Such structures may represent the "silver-bearing veins" shown in red on the applicant's map. However, the exposures are so widely dispersed that no continuity of the zones across the claims (between the two major faults) can be determined.

Most of these secondary shear zones are merely a series of tight, closely spaced fractures, extending over widths of 1 foot or less, in fresh and unaltered country rock. Individual fractures may be discolored and altered over widths of about 1 inch. In places, the zone may contain two or more of such altered fractures separated by fresh rock. In only one or two zones was the rock discolored, altered, or decomposed across the full width of the zone.

No mineralization, other than thin coatings or fillings of iron and manganese oxides, was observed in any of the exposed shear zones. Evidence of silver mineralization could not be verified in any exposure. None of the exposed shear zones on the property warranted sampling. However, the most promising exposure - a 12- to 15-inch zone of highly decomposed gneiss between 2 gangue-filled fractures - was sampled. Subsequent petrographic examination of this material did not reveal any silver minerals, and the sample was not assayed.

The few exposures of the shear zones found on the property were too widely dispersed to more than infer a vein system such as shown on the applicant's map. Most likely, this is just what the applicant has done. None of the few exposures contained evidence to indicate the concentration of silver mineralization or the localization of ore shoots at depth. Such an indefinite vein structure, showing little or no evidence of mineralization, is not considered a suitable exploration target. Consequently, Governmental aid in exploring the Twin Peaks Claims is not recommended.

The work proposed by the applicant more correctly should be classed as prospecting as it obviously is intended to establish the existence and continuity of indefinite vein structures and to determine if such structures are mineralized below a shallow oxidized zone. Ore shoots in the adjoining Black Hawk district are small and discontinuous and have no apparent geologic control. Consequently, wildcat drilling would be inconclusive. The property first should be prospected by trenching and test pitting to determine the continuity of the presently exposed shear zones and to definitely establish their mineralization below the shallow oxidized zone. Exploration with depth below those exposed sections in which sufficient mineralization is found then may be warranted.

R. L. Bolmer

OME 6403

MME Form 40
July 1962

Budget Bureau No. 42–R1368
Approval expires Dec. 31, 1963

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

APPLICATION FOR FINANCIAL ASSISTANCE IN MINERALS EXPLORATION

Pursuant to Public Law 85–701 (72 Stat. 700; 30 U.S.C. 641)

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

David Robnett Pefley
6594 South Clarkson Street
Littleton, Colorado 80120

APPLICANT DO NOT USE THIS BLOCK

DOCKET NUMBER

DATE RECEIVED

REGION

DIVISION CODE

BUSINESS ORGANIZATION *(Check one)*

- INDIVIDUAL [X]
- CORPORATION [ ]
- PARTNERSHIP [ ]
- OTHER *(Specify)* [ ]

LIST CORPORATE OFFICERS OR PARTNERS HERE, IF APPLICABLE

NAME | ADDRESS | TITLE

not applicable

STATE IN WHICH FIRM IS ORGANIZED Colorado

MINERAL(S) FOR WHICH YOU WISH TO EXPLORE: silver

ESTIMATED COST OF PROJECT: $ 22,000.00

PROPERTY NAME: Twin Peaks

LOCATION COUNTY STATE: Grant, New Mexico

GENERAL INSTRUCTIONS

Before filling out this application, please read the *OME Regulations for Obtaining Federal Assistance in Financing Explorations for Mineral Reserves* (30 CFR Chap. III). 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 two 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 2, existing mine workings and geology in item 3, and the proposed exploration work in item 5. 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 3(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 Office of Minerals Exploration, Department of the Interior, Washington 25, D. C., or with the nearest OME 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, and that he would not ordinarily undertake the proposed exploration under current conditions and circumstances at his sole expense.

January , 1965
DATED

David R. Pefley
BY *(Signature)*

General Manager, Orion Mining Company
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. Financial Eligibility:

(a) Submit evidence of efforts made within 90 days preceding the filing of this application to obtain credit from your bank of account and at least one other banking institution or other private source of credit. Such evidence shall include true copies of correspondence which show: (1) date of loan request, (2) amount and terms requested, (3) proposed use of loan funds, and (4) the replies from credit sources. If the loan was offered under terms which you consider unreasonable, state why you consider them so.

(b) List names and addresses of affiliated, parent, or controlling companies or organizations and state extent and nature of their interest.

(c) State how you propose to furnish your share of the cost of the exploration work.

2. Applicant's Rights in Land:

(a) State your interest in the land and mineral rights, whether owner, lessee, purchaser under contract, or other. If you are not the owner, submit one true copy of the lease, contract, or other document (with address of owner) under which you control the property. Describe all liens, mortgages, or other encumbrances on the land and state book and page number and official place where recorded.

(b) 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 adjacent land which you own or control. Describe any part of the land or workings which should not be subject to Government royalty and liens. If the land consists of unpatented claims, state book and page number for each recorded location notice, including amended locations, and official place where recorded. State all the names by which you know the property.

(c) For all land or mineral rights encumbered or not owned, submit five copies of Lien and Subordination Agreements on MME Form 52. If the agreements cannot be obtained, state reasons and provide copies of letters of refusal.

3. 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 land. Include existing mine workings and all production facilities.

(b) State your interest, if any, in operations described in (a).

(c) State, if 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, giving quantities and grades and sampling methods used. Support 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 have, indicating whether you require their return.

4. Accessibility of Property:

(a) To aid the OME representative who may examine the property, state name and address of person who will meet him; give directions for reaching the property; and describe accessibility of property and of any mine workings.

(b) Name the shipping and supply points and state the distances to the property.

5. Exploration Work:

(a) Describe fully the proposed exploration work giving individual footages and sizes of openings *for each item of work.* Use narrative, maps, plans, and sections as necessary. Show 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 *land boundaries* or to the closest identifiable corner.

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

(c) If an OME contract is executed, state how soon thereafter work would be started and finished. State your anticipated average daily or monthly rate of progress for each type of work.

6. Experience:

State your operating experience and background to conduct this exploration work and also that of the person who will supervise the work.

7. Estimate of Costs:

Furnish detailed estimates of the necessary costs *for each item of the work proposed in 5(a)* under the headings listed below with a total for each heading and the estimated total cost of the work. Costs for any work to be performed by an independent contractor should be listed separately under category (a) below. Costs for any work that is not to be performed by an independent contractor should be listed under categories (b) through (g).

(a) Independent contracts. State the total cost of any proposed independent contract for all or any part of the work, and the number of units and the unit cost for each type of work, such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, or 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. The cost of supervision, engineering and geological services, outside consultants, and labor should be itemized by numbers and classes of employees; rates of wages, salaries or fees; and periods of employment. State whether these services are available.

(c) Operating materials and supplies. List items of material and supplies giving quantity and cost of each. 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 equipment and tools costing $50 or more per unit. Give specifications and indicate how each item is to be acquired—i.e., rented, purchased or provided by the applicant. If rented or purchased, state the estimated rental or purchase price. If furnished by the applicant, state condition and present fair market value.

(e) Initial rehabilitation and repairs. Describe the type and the cost of *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 in the exploration work.

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

(g) Miscellaneous. Describe the type and estimate the cost of repairs and maintenance of the operating equipment listed in 7(d). Do not repeat initial repairs listed in 7(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*—The Government will not contribute to costs incurred before the date of the contract, or to costs of or incident to: (1) acquiring, using, or possessing land and any existing improvements, facilities, buildings, installations, and appurtenances, or the depreciation and depletion thereof; (2) general overhead, corporate management, interest and taxes (other than payroll and sales taxes); (3) insurance (other than employees' liability insurance); and (4) damages to persons or property (other than authorized repair to or replacement of equipment or other property used in the work).]

INT.-DUP. SEC., WASH., D.C.11879

D. R. Pefley
6594 S. Clarkson St.
Littleton, Colo.

1. Financial Eligibility:
(a) True copies of loan application and rejection correspondence between financial institutions and David Pefley are attached to this application.

(b) not applicable.

(c) I propose to use personal funds to finance 25% of the outlined exploration work contingent upon the Federal Government financing 75% of the project through a mineral exploration assistance loan.

2. Applicant's Rights in Land:
(a),(b) I am the locator and sole owner of six contiguous unpatented lode mining claims located in the Black Hawk mining district of Grant County, New Mexico. Copies of the location notices of these claims were filed for record in the Grant County, New Mexico court house at Silver City on November 23, 1964 and are so recorded on pages 35 thru 40 of Book 52 in the County Recorder's office. True copies of these claim certificates and a detailed location map are attached to and made a part of this application.

(c) not applicable.

3. Physical Description:
(a) To the best of my knowledge there has been no mining operations on the Twin Peaks group of lode mining claims. This statement is based on a detailed physical examination of the property and a search of possible old mining location claims in the Grant County court house.

(b) not applicable.

(c),(d) The silver mine closest to the Twin Peaks group of lode mining claims is located ½ mile to the southeast. The Black Hawk and other mines in the district between 1881 and 1893 yielded between $1,000,000 and $1,500,000 of high grade silver ore. The Geological Survey Bulletin 1009-K, Uranium Bearing Nickel-Cobalt-Native Silver Deposits, Black Hawk District, Grant County, New Mexico by Elliot Gillerman and Donald H. Whitebread describes the production and mines in the vicinity of the Twin Peaks claims. Two copies of this bulletin are submitted with this application. Attention is particularly directed to page 299, Distribution of the Veins.

(e),(f),(g) geologic report attached overpage

D. R. Pefley
6594 S. Clarkson St.
Littleton, Colo.

3.(e),(f),(g) GEOLOGIC FEATURES:

The geologic mapping I have done in the Black Hawk District is essentially a northwest extension of the mapping done by Elliot Gillerman and Donald H. Whitebread, geologists of the U.S. Geological Survey; the results of their work are described in Geological Survey Bulletin 1009-K, Uranium-Bearing Nickel-Cobalt-Native Silver Deposits, Black Hawk District, Grant County, New Mexico . The geologic map and section submitted with this application combine portions of the Gillerman and Whitebread map with my geologic map in the northwest part of the Black Hawk District. These illustrations emphasize the geologic features which I consider to be most important in the localization of the silver ore veins in this district. The essential feature is the Twin Peaks monzonite porphyry stock of Late Cretaceous or Early Tertiary age which intrudes the Precambrian quartz diorite gneiss of the Burro Mountains batholith. The composition and physical description of these rock types, in addition to all other rock types and ore minerals, is throughly treated in Bulletin 1009-K.

During the later phases of the intrusion of the Twin Peaks monzonite porphyry stock, and probably due to a relaxation of the internal stresses responsible for the intrusion, a system of north to northeast trending fault and shear zones was introduced into the geologic fabric of the area. Apparent lateral movement in the fault zones formed tensional fractures, many of which became mineralized. Evidence is present in the area which suggests that the orientation of the Tertiary faulting (and subsequent tension fracturing) was determined by pre-existing (possibly as old as Precambrian) lines of weakness in the Burro Mountains batholith. I noted several northeast trending granite veins which were intruded by monzonite porphyry in an obvious reopening of the older breaks. Gillerman and

D. R. Pefley
6594 S. Clarkson St.
Littleton, Colo.

Whitebread make note of the fact that the ore veins mapped by them on the south side of the Twin Peaks stock decreased markedly in width or disappeared altogether when traced from the quartz diorite gneiss into the monzonite porphyry. This phenomenon, I would suggest was due primarily to the temperature and resultant relative plasticity of the two rock types at the time of monzonite porphyry intrusion. The quartz diorite gneiss of the solidified batholith would have broken into open fissures in response to the tensional stresses whereas the warm, semisolid monzonite porphyry would have yielded plastically. For this reason my silver ore exploration efforts were concentrated on the periphery of the monzonite porphyry stock and in the quartz diorite gneiss.

My mapping in the west portion of the stock revealed a northeast trending shear zone in the monzonite porphyry near the center of section 20. This fault-shear zone can be traced intermittently (due to alluvial cover) to the northeast along the west side of a prominent northeast trending stream valley which originates near the center of section 20. I believe the trend of this stream is controlled by the trend of the fault zone. The monzonite porphyry is mapped on the west side of the fault and is in sharp contact with the quartz diorite gneiss on the east side of the fault. The relative movement on the fault, as is illustrated by the arrows, is inferred from the spatial relationships of the contacts between the two rock types.

Northeast trending granite filled dikes, monzonite porphyry intruded granite dikes, monzonite porphyry dikes, and silver bearing veins become numerous and prominent at about the common corner of sections 16,17,20, and 21. This is also the point where the above described stream assumes a more eastnortheast trend and where two eastnortheast trending tributaries join the main stream.

D. R. Pefley
6594 S. Clarkson St.
Littleton, Colo.

The ore veins illustrated on my map and section (colored red) occur along a northeast trending fracture system as fissure fillings. The outcrops of the veins are inconspicuous, but they can be identified by brown siderite (limonite ?) - carbonate gossans. The alluvial cover in and along the streams precludes tracing the ore veins on the surface. The widest vein I noted was one and one-half feet. However, the poddy and lense-like character of the Black Hawk vein (of which the Twin Peak veins resemble) suggests the possibility of wider ore shoots at depth or in unexposed parts of the veins at the surface. In the gossan portions of the veins I identified from ditch samples pyrite, siderite, limonite, calcite, and small specks of native silver. A 10 power hand lens was used in the identifications. No assay work was undertaken due to the apparent deep weathered nature of the gossan outcrops. Many surface areas of the Twin Peaks group of lode mining claims were examined with a geiger counter during the period of the geologic mapping. No anomalous radioactivity was noted at the surface.

The geologic similarity between the gossan veins of the Twin Peaks group of lode mining claims and the proven silver veins of the Black Hawk and Alhambra mines leads me to believe that a shallow core hole program such as herein proposed should define silver ore reserves of the same type and of a similiar magnitude.

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6594 S. Clarkson St.
Littleton, Colo.

4. Accessibility of Property:
(a) Accessibility to the Twin Peaks group of lode mining claims is good. From Silver City, New Mexico U.S. route 180 is taken to the west for 13 miles. At this point a sign entitled " Saddle Rock Canyon" points to a crossing of Mangas Creek on the west side of which the north fork of the dirt road is taken for about a mile at which place the road forks again. At this place turn west and follow the road along Black Hawk Canyon in a southerly direction for about 5 miles. A 2"x2"x3' white pine stake is located on the stream bank for reference to the eastern boundary of the Twin Peaks claims. Should the stake be missed, proceed 1 mile farther south to the Black Hawk mines and backtrack. A detailed topographic and location map is submitted with this application.

The applicant does not maintain offices in the Silver City area and for this reason would suggest that the expense of his flying from Denver to Silver City to meet and escort the local OME representative who may examine the property might better be spent in retaining a consulting geologist from the Silver City area for a day. The accessibility of the property is so good and the maps covering the area so detailed that there is little likelihood of not being able to readily identify and examine the property in question.

(b) The main shipping and supply point in the region is Silver City, New Mexico located 19 miles from the Twin Peaks claims along the above described route.

5. Exploration Work:
(a) The major portion of the proposed exploration work will consist of the drilling of twelve continuous diamond core holes the location of each of which has been carefully selected with regard to the geologic mapping described in 3.(e),(f),(g). The holes will be cored to a depth of 100 feet, will be inclined 45°, will recover $1\frac{1}{2}$" diameter cores, and are so spaced and inclined as to provide the maximum evaluation of the lode claims. The location and geologic map shows in numbered red circles the location of the proposed core holes. The true scale relationship of the core holes to the silver veins is illustrated on the cross section A - B, Black Hawk District.

Any silver ore vein material encountered in the core holes would be assayed in Silver City by a competent assayer.

In conjunction with the core hole program a metal detector grid survey would be made as a possible aid in further delineating any silver veins encountered in the core drilling.

(b) It is not anticipated that any extensive access road building will be necessary. Some site grading and short haulage road construction at several of the drill sites will be necessary and this cost is considered in 7.(a)2.

(c) It can be anticipated that the core drilling described in this application would begin within 6 weeks following the execution of an OME contract. The core drilling should take

D. R. Perley
6594 S. Clarkson St.
Littleton, Colo.

approximately 5 weeks to complete. The assay work should take no more than one month to complete following the completion of the core work. The metal detector survey should be completed within one month following the completion of the core work.

6. Experience:
I am an experienced geologist (Master of Science degree, University of Rochester, 1956) and have been engaged in the exploration business in many areas of the Rocky Mountains for the past seven years. I have partially organized and supervised over 50 drilling projects for companies I have worked for during this time. I organized and conducted an extensive radiometric survey on a client's uranium property in the Adirondack Mountains of New York in 1956. I will supervise the core drilling and assay work to be performed by experienced and competent independent private contractors. I will personally conduct the metal detector survey.

7. Estimate of Costs:

(a) Independent contracts:	
1. diamond core drilling by Boyles Bros. Drilling Company, twelve 100' holes - hole size to recover 1½" diameter cores; 1200 linear feet @ $7.90/foot	9480.00
contractor mobilization cost	500.00
drilling mud, additives, and cement	300.00
core boxes	120.00
water hauling, $1.00/foot cored	1200.00
	$11600.00
2. drill site leveling and short haulage road grading, 12 sites @ $150/site	1800.00
	$1800.00
	$13400.00
(b) Personal services: supervision and geological services; 35 days @ $125/day	4375.00
	$4375.00
(c) Operating materials and supplies: hand level, steel tape, stakes, flagging	45.00
labels, tape, cord	5.00
post hole digger, pick, shovel	25.00
	$75.00
(d) Operating equipment: Detectron Metal Detector, case, phones (new)	180.00
	$180.00
(e),(f) not applicable	
(g) Miscellaneous subsistence for project supervisor 35 days @ $18/day	630.00

D. R. Pefley
6594 S. Clarkson St.
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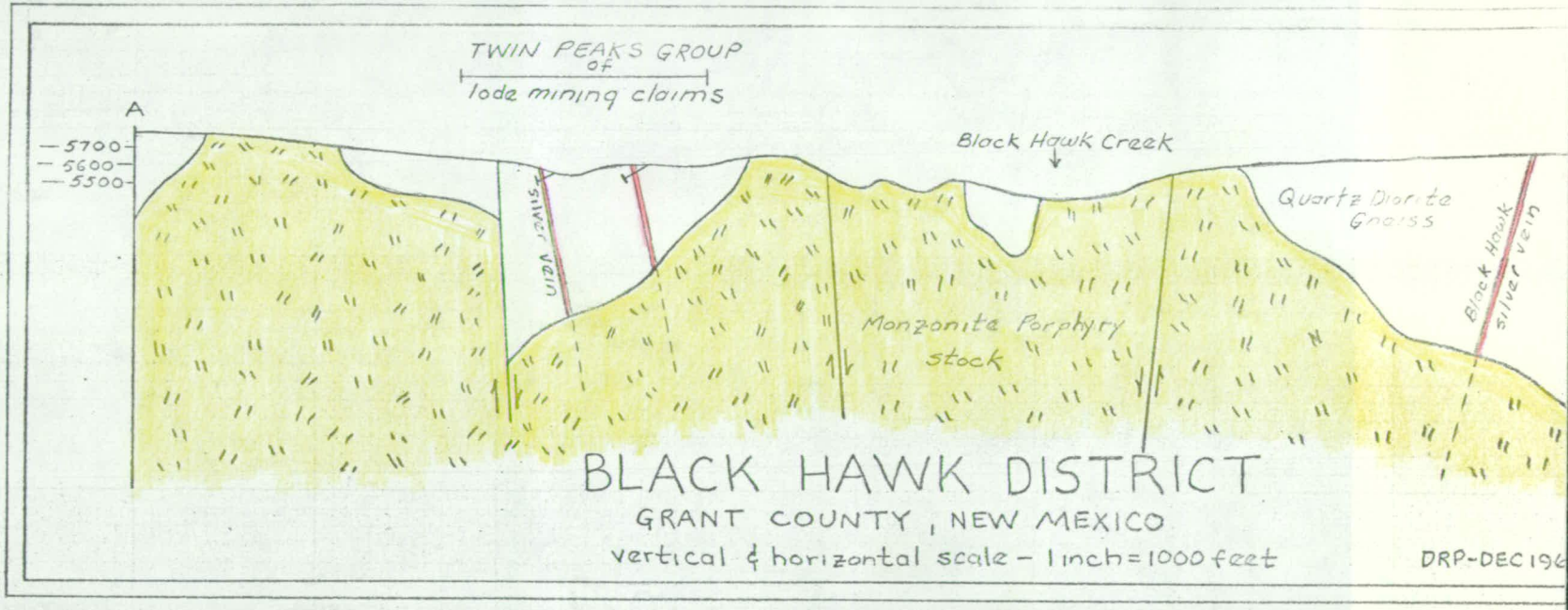
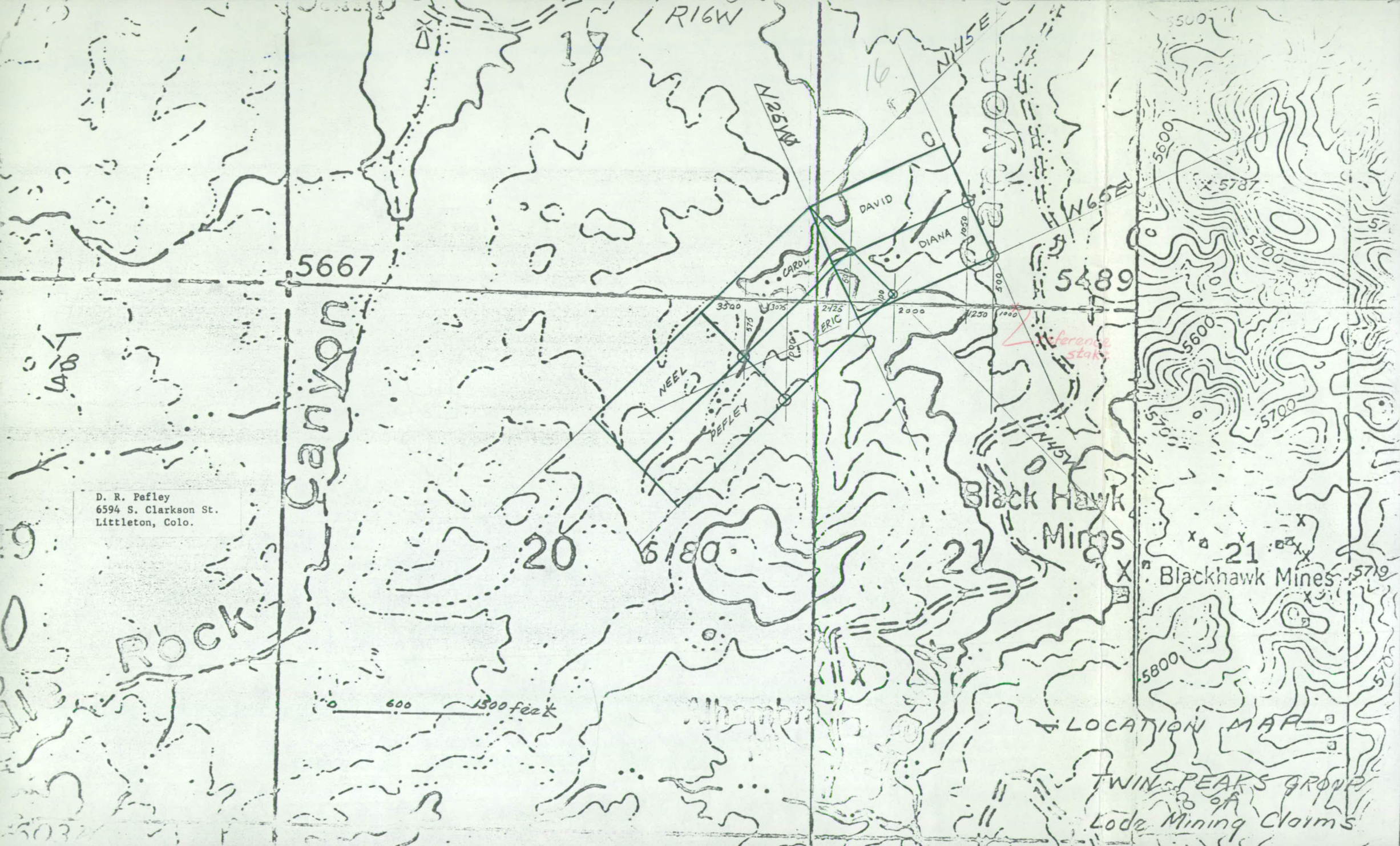
assay work	570.00
accounting (reputable Denver CPA firm)	300.00
telephone	25.00
air transportation, Denver-Silver City four round trip fares @ $155/ticket	620.00
rental car, 35 days @ $15/day	525.00
report typing, drafting, reproduction	250.00
	$2970.00
Project total	$22000.00


TWIN PEAKS GROUP
of
lode mining claims
A
5700
5600
5500
Black Hawk Creek
Quartz Diorite
Gneiss
Black Hawk
silver vein
Monzonite Porphyry
stock
BLACK HAWK DISTRICT
GRANT COUNTY, NEW MEXICO
vertical & horizontal scale - 1 inch = 1000 feet
DRP-DEC 196


R16W
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N26W
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DAVID
DIANA
CAROL
ERIC
NEEL
PEFLEY
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3075
2425
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1250
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1020
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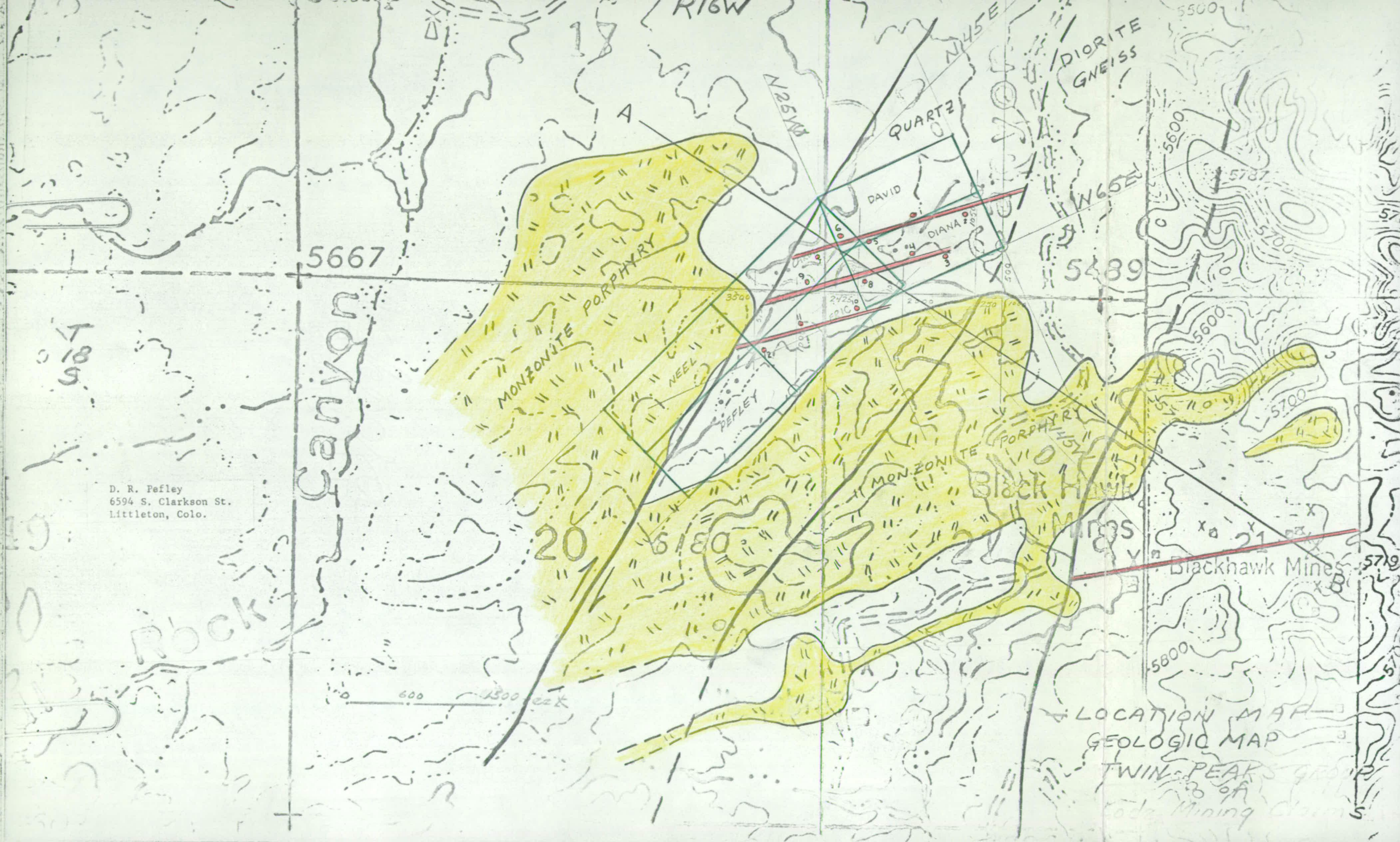
N45W
Rock Canyon
20
6180
21
Black Hawk Mines
Blackhawk Mines
5787
5600
5700
5800
5719
600
1300 feet
LOCATION MAP
TWIN PEAKS GROUP
OF
Lode Mining Claims
D. R. Pefley
6594 S. Clarkson St.
Littleton, Colo.



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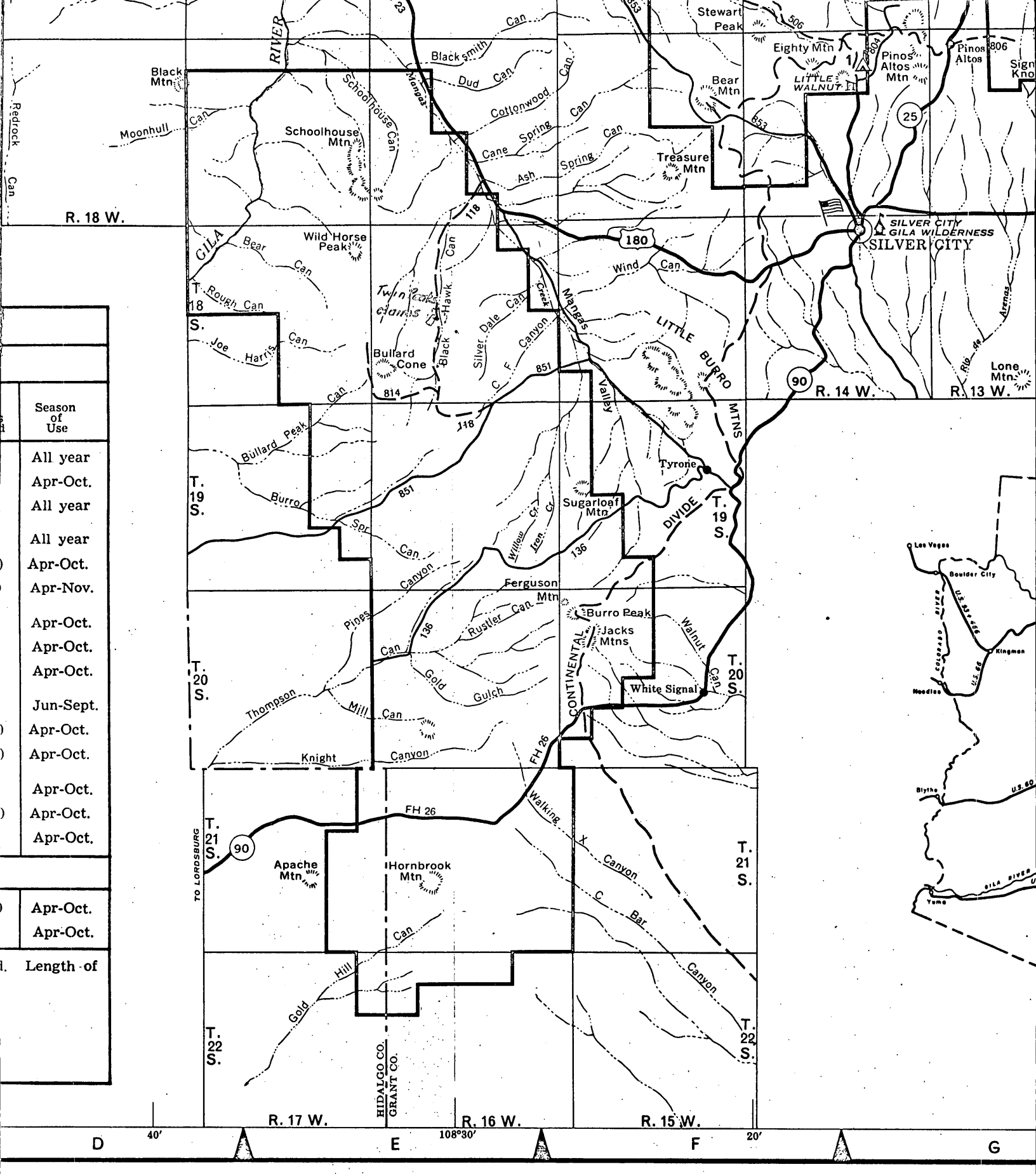
6594 S. Clarkson St.
Littleton, Colo.



	Season of Use
	All year
	Apr-Oct.
	All year
	All year
)	Apr-Oct.
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	Jun-Sept.
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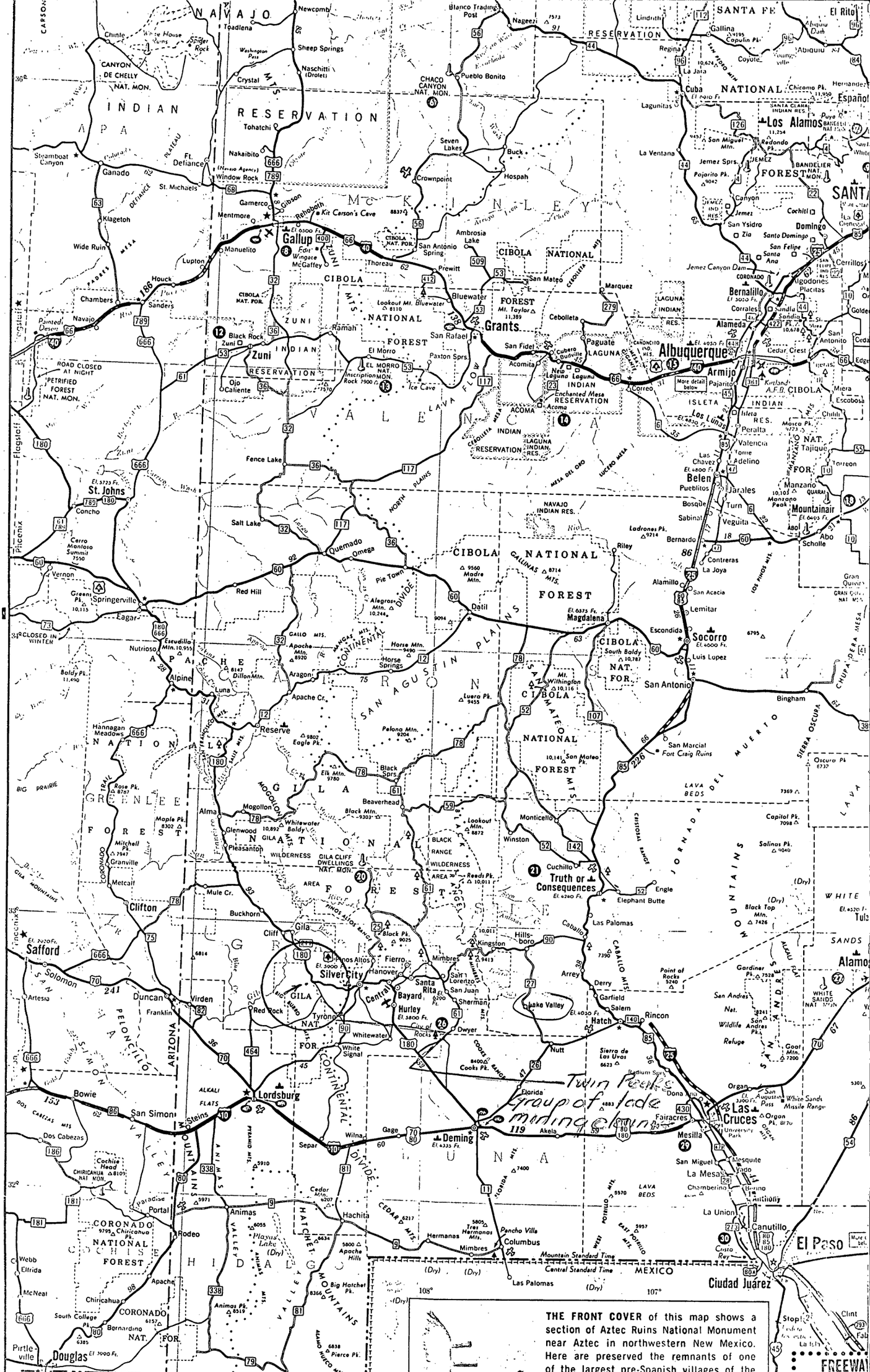
	Apr-Oct.
d.	Length of



THE FRONT COVER of this map shows a section of Aztec Ruins National Monument near Aztec in northwestern New Mexico. Here are preserved the remnants of one of the largest pre-Spanish villages of the Southwest. Its inhabitants were Pueblo Indians, not Aztecs, as was the belief of early settlers who named the ruins. The largest ruin here, once a three-story building of 500 rooms, is an excellent example of classical pueblo construction. The monument is open daily. Admission is 25c.

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DIAMOND CORE DRILLING
DIAMOND DRILLING EQUIPMENT
GROUTING
FOUNDATION TESTING
MINING
QUARRYING
SHAFT SINKING
TUNNEL DRIVING
MINE PLANT DESIGN
AND FABRICATION

Boyles Bros.
DRILLING COMPANY
CONTRACTORS - ENGINEERS - GEOLOGISTS
2960 W. 7th Avenue
DENVER 4, COLORADO
Phones: ALpine 5-9244
ALpine 5-0855

General Offices and Plant
1624 Pioneer Road P. O. Box 58
SALT LAKE CITY 10, UTAH
HUnter 7-7595

BRANCH OFFICES
PHOENIX
RENO
SPOKANE
DENVER
SACRAMENTO
ST. LOUIS

December 23, 1964

Mr. Dave Pefley
Orion Mining Company
6594 South Clarkson Street
Littleton, Colorado

Dear Sir:

The following schedule of charges will apply to your anticipated drilling program of 1200 linear feet, near Silver City, New Mexico.

Mobilization of men and equipment, lump sum, $500.00

Bedrock to 100 feet, per linear foot, all sizes, $7.90

Drilling mud, additives and cement, if required, will be charged at our cost at job site.

Cardboard core boxes to hold 10 feet of core, each, $1.00

Hauling water for drilling will be charged for at the rate of $1.00 per linear foot drilled, with source of supply to be furnished at no cost to us.

Drill sites and roads to be prepared and maintained at no cost to Boyles Bros.

Should our firm be the successful bidder, the operation would be under the jurisdiction of Mr. Joe E. Roberts, District Manager of our Arizona District with offices at 10801 North 21st Avenue, Phoenix 20, Arizona - telephone number 944-1731, Area code 602.

Thank you for calling on our Company, we look forward to being of service to you.

Very truly yours,

BOYLES BROS. DRILLING COMPANY

George E. Lensch

George E. Lensch, District Manager

GEL/eg

cc: Mr. Joe E. Roberts

6594 South Clarkson
Littleton, Colorado
December 24, 1964

The First National Bank of Denver
17th and Welton Streets
Denver, Colorado
Attn: Loan Department

Dear Sir:

I am seeking a 10 year repayment mineral exploration loan from The First National Bank of Denver, my bank of account, in the amount of $22,000.00 at the present standard interest rate for loans of this type. These funds are to be used to pay for certain operations designed to evaluate the silver ore potential of six unpatented lode mining claims that I own in the Black Hawk mining district of Grant County, New Mexico. The evaluation work will basically consist of the drilling of twelve 100 foot deep diamond core holes at selected locations on the claims. Should additional data, such as copies of the recorded claims, etc., be necessary please contact me at 798-1896. The security I can offer for this loan is a first mortgage on the six lode mining claims in question.

In the event that The First declines to make this loan, I would appreciate a reply to this effect as I am also in the process of applying to the U.S. Government for financial assistance in the above described silver exploration work. Public Law 85, in this regard, requires evidence of efforts to obtain private financing prior to the consideration of the project by the Government.

Thank you for your consideration.

Very truly yours,

David R. Pefley

6594 South Clarkson
Littleton, Colorado
December 24, 1964

Mortgage Investments Company
1711 California Street
Denver, Colorado
Attn: Mr. John K. McCready

Dear Mr. McCready,

I am seeking a 10 year repayment mineral exploration loan of $22,000.00at the present standard interest rate for loans of this type. These funds are to be used to pay for certain operations designed to evaluate the silver ore potential of six unpatented lode mining claims that I own in the Black Hawk mining district of Grant County, New Mexico. The evaluation work will basically consist of the drilling of twelve 100 foot deep diamond core holes at selected locations on the claims. Should additional data, such as copies of recorded claims, etc., be necessary please contact me at 798-1896. The security I can offer for this loan is a first mortgage on the six lode mining claims in question. I intend to conduct this exploration under the name of Orion Mining Company.

In the event that your company declines to make this loan, I would appreciate a reply to this effect as I am also in the process of applying to the U.S. Government for financial assistance in the above described silver exploration work. Public Law 85, in this regard, requires evidence of efforts to obtain private financing prior to the consideration of the project by the Federal Government.

Thank you for your consideration.

Very truly yours,

David R. Pefley

THE FIRST NATIONAL BANK OF DENVER

DENVER, COLORADO

DONALD R. RICHARDS
VICE PRESIDENT

P. O. BOX 58[illegible]3
DENVER, COLO., [illegible]2.7
TELEPHONE 26[illegible]

December 29, 1964

Mr. David R. Pefley
6594 South Clarkson Street
Littleton, Colorado

Dear Mr. Pefley:

I wish to acknowledge receipt of your letter of December 24 requesting a 10 year mineral exploration loan in the amount of $22,000.00 to be used for evaluation work on mining claims which you hold in Grant County, New Mexico.

The bank would not be willing to make such a loan based on a first mortgage on the mining claims as you suggest because of the speculative nature of the collateral. We would be glad, however, to consider such a loan based on other types of collateral which you might have, such as stocks, bonds, cash surrender value of life insurance, etc. This type of a note would not be drawn for a period of 10 years, but would be drawn for a year at a time with a right of renewal as long as the market value of the collateral was stable.

I am sorry that the bank is not able to help you based on the mining claims, but should you desire to discuss the other aspects, please do not hesitate to contact me.

Very truly yours,

D. R. Richards

Vice President

DRR/mc

Mortgage Investments Co.

1711 CALIFORNIA · DENVER, COLORADO 80202 PHONE 292-2900

December 31, 1964

Mr. David R. Pefley
6594 South Clarkson
Littleton, Colorado

Dear Mr. Pefley:

Our company represents several major life insurance companies in the mortgage loan field. Unfortunately, their lending policies exclude loans on mineral rights and exploration as you mention in your letter of December 24.

I am sorry we could not be of assistance to you in this matter.

Very truly yours,

John K. McCready

John K. McCready
Vice President

cs

cs

Filed for record on 23 day of Nov., A.D., 1964 at 2:00 o'clock P.M.

Celia G. Robinson
Clerk

35

No. 162 LOCATION CERTIFICATE—Lode Claim. —Bradford-Robinson Co., Mfrs. Robinson's Legal Blanks, Denver, Colo.

KNOW ALL MEN BY THESE PRESENTS, That DAVID ROBNETT PEFLEY
6594 South Clarkson Street, Littleton, Colorado

has located the David lode mining claim, and by this certificate, and by right of discovery and location, claim 1500 feet, linear and horizontal measurement along the vein thereof, with all its dips, angles and variations as allowed by law 750 feet on said vein running Northeast from the center of the discovery and 750 feet running Southwest from the center of the discovery, together with 300 feet on each side of the middle of said vein at the surface, and all veins, lodes, ledges, deposits and surface ground within the lines of said claim, situate in Black Hawk Mining District, County of Grant, and State of New Mexico and described by metes and bounds as follows, to-wit:

Beginning at Corner No. 1 The SE corner of the David claim (corner#1) is located 1250 feet due west (true) of the quarter corner between sections 16 and 21 of T18S-R16W and 1050 feet due north (true) of the section line between sections 16 and 21. From the SE corner the south line of the claim is 1500 feet linear measurement along a line with a true bearing of N65E (corner #2). Then a line with a true bearing of N25W is followed for 600 feet to the NW corner (corner#3). Then a line with a true bearing of N65E is followed for 1500 feet to the NE corner (corner #4); and then a line with a true bearing of W25W is followed for 600 feet to the point of beginning (corner #1). Corners are marked with 2"x2"x3' pine stakes. The David claim is adjoined to the Carol lode mining claim on the SW and the Diana lode mining claim on the SE.

Said lode was discovered on the 2d day of November, A. D. 1964
and located on the 22d day of November, A. D. 1964
Dated this 23d day of November, A. D. 1964

David Robnett Pefley [SEAL]
David Robnett Pefley

[SEAL]

[SEAL]

[SEAL]

[SEAL]

[SEAL]

LOCATION CERTIFICATE

On the DAVID Lode

Mining Claim, in Black Hawk Mining District.

David Robnett Pefley
6594 South Clarkson Street
Littleton, Colorado
Locator

STATE OF NEW MEXICO
County of GRANT } ss.

I hereby certify that this Location Certificate was filed for record in my office at 2:00 o'clock P M., Nov 23 19 64, and is duly recorded in Book 52 Page 35

Celia G Padilla
Recorder.

By Lorice Fox
Deputy.

Fees, $ 1.75

7-56 BRADFORD-ROBINSON PTG. CO., DENVER

36

Filed for record on 23 day of Nov., A.D., 1964 at 2:00 o'clock P.M.

Celia G. Pallen
Co. Clerk

No. 162 LOCATION CERTIFICATE—Lode Claim. —Bradford-Robinson Ptg. Co., Mfrs. Robinson's Legal Blanks, Denver, Colo.

KNOW ALL MEN BY THESE PRESENTS, That DAVID ROBNETT PEFLEY
6594 South Clarkson Street, Littleton, Colorado

has located the Neel lode mining claim, and by this certificate, and by right of discovery and location, claim 1500 feet, linear and horizontal measurement along the vein thereof, with all its dips, angles and variations as allowed by law 750 feet on said vein running Northeast from the center of the discovery and 750 feet running Southwest from the center of the discovery, together with 300 feet on each side of the middle of said vein at the surface, and all veins, lodes, ledges, deposits and surface ground within the lines of said claim, situate in Black Hawk Mining District, County of Grant, and State of New Mexico and described by metes and bounds as follows, to-wit:

Beginning at Corner No. 1 The SE corner of the Neel claim (corner #1) is located 3500 feet due west (true) of the quarter corner between sections 16 an 21 of T18S-R16W and 575 feet due south (true) of the section 20. From the SE corner the south line of the claim is 1500 feet linear measurement along a line with a true bearing of N45E (corner #2). Then a line with a true bearing of N45W is followed for 600 feet to the NW corner (Corner #3). Then a line with a true bearing of N45E is followed for 1500 feet to the NE corner (corner #4); and then a line with a true bearing of N25W is followed for 600 feet to the point of beginning (corner #1). Corners are marked with 2"x2"x3' pine stakes. The Neel claim is adjoined to the Carol lode mining claim to the NE and the Pefley lode mining claim to the SE.

Said lode was discovered on the 2d day of November, A. D. 19 64
and located on the 22d day of November, A. D. 19 64
Dated this 23d day of November, A. D. 19 64

David Robnett Pefley [SEAL]
David Robnett Pefley

[SEAL]

[SEAL]

[SEAL]

[SEAL]

[SEAL]

LOCATION CERTIFICATE

On the Neel Lode

Mining Claim, in Black Hawk
Mining District.

D d Robnett Pefley
6 South Clarkson Street
L leton, Colorado
Locator

STATE OF NEW MEXICO
County of GRANT } ss.

I hereby certify that this Location Certificate was filed for record in my office at 2:00 o'clock P M., Nov 23 19 64, and is duly recorded in Book 52 Page 36

Celia G Padilla
Recorder.

By Lorey Fox
Deputy.

Fees, $ 1.75

7-56 BRADFORD-ROBINSON PTG. CO., DENVER

Filed for record on 23 day of Nov. A.D., 1964 at 2:00 o'clock P. M.

Celia G. Pallica

37

No. 162 LOCATION CERTIFICATE—Lode Claim. —Bradford-Robinson Ptg. Co., Mfrs. Robinson's Legal Blanks, Denver, Colo.

KNOW ALL MEN BY THESE PRESENTS, That DAVID ROBNETT PEFLEY
6594 South Clarkson Street, Littleton, Colorado

has located the Diana lode mining claim, and by this certificate, and by right of discovery and location, claim 1500 feet, linear and horizontal measurement along the vein thereof, with all its dips, angles and variations as allowed by law 750 feet on said vein running Northeast from the center of the discovery and 750 feet running Southwest from the center of the discovery, together with 300 feet on each side of the middle of said vein at the surface, and all veins, lodes, ledges, deposits and surface ground within the lines of said claim, situate in Black Hawk Mining District, County of Grant, and State of New Mexico and described by metes and bounds as follows, to-wit:

Beginning at Corner No. 1 The SE corner of the Diana claim (corner #1) is located 1000 feet due west (true) of the quarter corner between Sections 16 and 21 of T18S-R16W and 500 feet due north (true) of the section line between sections 16 and 21. From the SE corner the south line of the claim is 1500 feet linear measurement along a line with a true bearing of N 65E (corner #2). Then a line with a true bearing of N25W is followed for 600 feet to the NW corner (corner #3). Then a line with a true bearing of N65E is followed for 1500 feet to the NE corner (corner #4); and then a line with a true bearing of N25W is followed for 600 feet to the point of beginning (corner #1). Corners are marked with 2"x2"x3' pine stakes. The Diana claim is adjoined to the David lode mining claim on the NW and to the Eric lode mining claim to the SE.

Said lode was discovered on the 2d day of November, A. D. 19 64
and located on the 22d day of November, A. D. 19 64
Dated this 23d day of November, A. D. 19 64

David Robnett Pefley [SEAL]
David Robnett Pefley
[SEAL]
[SEAL]
[SEAL]
[SEAL]
[SEAL]

LOCATION CERTIFICATE

On the DIANA Lode

Mining Claim, in Black Hawk
Mining District.

David Robnett Pefley
6594 South Clarkson Street
Littleton, Colorado
Locator

STATE OF NEW MEXICO
County of GRANT } ss.

I hereby certify that this Location Certificate was filed for record in my office at 2:00 o'clock P M., Nov. 23 19 64, and is duly recorded in Book 52 Page 37

Celia G. Rodilla
Recorder.

By Lorey Fox
Deputy.

Fees, $ 1.75

7-56 BRADFORD-ROBINSON PTG. CO., DENVER

38

Filed for record on 23 day of Nov. A.D., 19 64 at 2:00 o'clock P M.
Celia G. Pacheco
Co. Clerk

No. 162 LOCATION CERTIFICATE—Lode Claim. —Bradford-Robinson Ptg. Co., Mfrs. Robinson's Legal Blanks, Denver, Colo.

KNOW ALL MEN BY THESE PRESENTS, That DAVID ROBNETT PEFLEY
6594 South Clarkson Street, Littleton, Colorado

has located the Carol lode mining claim, and by this certificate, and by right of discovery and location, claim 1500 feet, linear and horizontal measurement along the vein thereof, with all its dips, angles and variations as allowed by law 750 feet on said vein running Northeast from the center of the discovery and 750 feet running Southwest from the center of the discovery, together with 300 feet on each side of the middle of said vein at the surface, and all veins, lodes, ledges, deposits and surface ground within the lines of said claim, situate in Black Hawk Mining District, County of Grant, and State of New Mexico and described by metes and bounds as follows, to-wit:

Beginning at Corner No. 1 The SE corner of the Carol claim (corner #1) is located 2425 feet due west (true) of the quarter corner between sections 16 and 21 of T18S-R16W and 500 feet due north (true) of the section line between sections 16 and 21. From the SE corner the south line of the claim is 1500 feet linear measurement along a line with a true bearing of N45E (corner#2). Then a line with a true bearing of N45W is followed for 600 feet to the NW corner (corner #3). Then a line with a true bearing of N45E is followed for 1500 feet to the NE corner (corner #4); and then a line with a true bearing of N25W is followed for 600 feet to the point of beginning (corner #1). Corners are marked with 2"x2"x3' pine stakes. The Carol claim is adjoined to the David lode mining claim on the NE, the Eric lode mining claim on the SE, and the Neel lode mining claim on the SW.

Said lode was discovered on the 2d day of November, A. D. 19 64
and located on the 22d day of November, A. D. 19 64
Dated this 23d day of November, A. D. 19 64

David Robnett Pefley [SEAL]
David Robnett Pefley
[SEAL]
[SEAL]
[SEAL]
[SEAL]
[SEAL]

LOCATION CERTIFICATE

On the CAROL Lode

Mining Claim, in Black Hawk Mining District.

David Robnett Pefley
6594 South Clarkson Street
Littleton, Colorado
Locator

STATE OF NEW MEXICO
County of GRANT } ss.

I hereby certify that this Location Certificate was filed for record in my office at 2:00 o'clock P M., Nov. 23 19 64, and is duly recorded in Book 52 Page 38

Celia G. Padilla
Recorder.

By Lovicy Fox
Deputy.

Fees, $1.75

7-56 BRADFORD-ROBINSON PTG. CO., DENVER

Filed for record on 23 day of Nov., A.D., 1964 at 2:00 o'clock P.M.

Celia G. Pahm, Co. Clerk

39

No. 162 LOCATION CERTIFICATE—Lode Claim. —Bradf... Co., Mfrs. Robinson's Legal Blanks, Denver, Colo.

KNOW ALL MEN BY THESE PRESENTS, That DAVID ROBNETT PEFLEY
6594 South Clarkson Street, Littleton, Colorado

has located the Pefley lode mining claim, and by this certificate, and by right of discovery and location, claim 1500 feet, linear and horizontal measurement along the vein thereof, with all its dips, angles and variations as allowed by law 750 feet on said vein running Northeast from the center of the discovery and 750 feet running Southwest from the center of the discovery, together with 300 feet on each side of the middle of said vein at the surface, and all veins, lodes, ledges, deposits and surface ground within the lines of said claim, situate in Black Hawk Mining District, County of Grant, and State of New Mexico and described by metes and bounds as follows, to-wit:

Beginning at Corner No. 1 The SE corner of the Pefley claim (corner #1) is located 3075 due west (true) of the quarter corner between sections 16 and 21 of T18S-R16W and 1000 feet due south (true) of the section line between sections 17 and 20. From the SE corner the south line of the claim is 1500 feet linear measurement along a line with a true bearing of N45E (corner #2). Then a line with a true bearing of N45W is followed for 600 feet to the NW corner (corner #3). Then a line with a true bearing of N45E is followed for 1500 feet to the NE corner (corner #4); and then a line with a true bearing of N25W is followed for 600 feet to the point of beginning (corner #1). Corners are marked with "2x2"x3' pine stakes. The Pefley claim is adjoined to the Neel lode mining claim on the NW and the Eric lode mining claim on the NE.

Said lode was discovered on the 2d day of November, A. D. 1964
and located on the 22d day of November, A. D. 1964
Dated this 23d day of November, A. D. 1964

David Robnett Pefley [SEAL]
David Robnett Pefley

[SEAL]

[SEAL]

[SEAL]

[SEAL]

[SEAL]

LOCATION CERTIFICATE

On the PEFLEY Lode

Mining Claim, in Black Hawk Mining District.

David Robnett Pefley
6594 South Clarkson Street
Littleton, Colorado
Locator

STATE OF NEW MEXICO
County of GRANT } ss.

I hereby certify that this Location Certificate was filed for record in my office at 2:00 o'clock P M., Nov. 23 19 64, and is duly recorded in Book 52 Page 39

Celia G Padilla
Recorder.

By Lorey Fox
Deputy.

Fees, $ 1.75

7-56 DRAKE-BRIDGEMAN-SHERMAN PTG. CO., DENVER

Filed for record on 23 day of Nov. A.D., 1964 at 2:00 o'clock P.M.

Celia G. Pattison

40

No. 162 LOCATION CERTIFICATE—Lode Claim. —Bradford-Robinson Ptg. Co., Mfrs. Robinson's Legal Blanks, Denver, Colo.

KNOW ALL MEN BY THESE PRESENTS, That DAVID ROBNETT PEFLEY
6594 South Clarkson Street, Littleton, Colorado

has located the Eric lode mining claim, and by this certificate, and by right of discovery and location, claim 1500 feet, linear and horizontal measurement along the vein thereof, with all its dips, angles and variations as allowed by law 750 feet on said vein running Northeast from the center of the discovery and 750 feet running Southwest from the center of the discovery, together with 300 feet on each side of the middle of said vein at the surface, and all veins, lodes, ledges, deposits and surface ground within the lines of said claim, situate in Black Hawk Mining District, County of Grant, and State of New Mexico and described by metes and bounds as follows, to-wit:

Beginning at Corner No. 1 The SE corner of the Eric claim (corner#1) is located 2000 feet due west (true) of the quarter corner between sections 16 and 21 of T18S-R16W and 100 feet due north (true) of the section line between sections 16 and 21. From the SE corner the south line of the claim is 1500 feet linear measurement along a line with a true bearing of N45E (corner #2). Then a line with a true bearing of N45W is followed for 600 feet to the NW corner (corner #3. Then a line with a true bearing of N45E is followed for 1500 feet to the NE corner (corner #4); and then a line with a true bearing of N25E is followed for 600 feet to the point of beginning (corner#1). Corners are marked with 2"x2"x3' pine stakes. The Eric claim is adjoined to the Diana lode mining claim on the NE, the Carol lode mining claim on the NW and the Pefley lode mining claim on the SW.

Said lode was discovered on the 2d day of November, A. D. 1964
and located on the 22d day of November, A. D. 1964
Dated this 23d day of November, A. D. 1964

David Robnett Pefley [SEAL]
David Robnett Pefley
[SEAL]
[SEAL]
[SEAL]
[SEAL]
[SEAL]

LOCATION CERTIFICATE

On the ERIC Lode

Mining Claim, in Black Hawk
Mining District.

David Robnett Pefley
6594 South Clarkson Street
Littleton, Colorado
Locator

STATE OF NEW MEXICO
County of GRANT } ss.

I hereby certify that this Location Certificate was filed for record in my office at 2:00 o'clock P M., Nov. 23 19 64, and is duly recorded in Book 52 Page 40

Celia G. Padilla
Recorder.

By Lorian Fox
Deputy.

Fees, $1.75

7-56 BRADFORD-RO[illegible] PTG. CO., DENVER