COPY # 2 Crawford

MF-103
(Revised April 1952)

# UNITED STATES DEPARTMENT OF THE INTERIOR
## DEFENSE MINERALS EXPLORATION ADMINISTRATION

Form Approved.
Budget Bureau No. 42-R1035.2.

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## APPLICATION FOR AID IN AN EXPLORATION PROJECT, PURSUANT TO DMEA ORDER 1, UNDER THE DEFENSE PRODUCTION ACT OF 1950, AS AMENDED

*Not to be filled in by applicant*

Docket No. DMEA-3980
Metal or Mineral Uranium
Date Received ~~9/16/55~~ 9/16/55
Estimated Cost $78,247.00
Participation (Government %)

## INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: Scouler, Cook, Scouler & Gardiner, a partnership
c/o S. W. Gardiner
Albert Building
San Rafael, California

(*b*) If other than an individual, add to your name above whether a corporation, partnership, etc., and the name of the State in which incorporated or otherwise organized:

(*c*) If a corporation, add to above statement, titles, names and addresses of officers. See Schedule No. 1

(*d*) If a partnership, add to the above statement the names and addresses of all partners.

2. *General.*—Read DMEA Order 1, "Government Aid in Defense Exploration Projects," before completing this application. Submit this application and all accompanying papers in quadruplicate (four copies), with your name and address on each sheet of the application and on all accompanying papers. Where sufficient space is not provided on the form for all required information, state it on an accompanying paper, with a reference in each case to the instruction to which it refers by number. Comply with all applicable instructions; or, if not applicable, so state. File the application with Defense Minerals Exploration Administration, Department of the Interior, Washington 25, D. C., or with the nearest field executive officer thereof.

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract Refer to Schedule No. 1-A, being a copy of survey documents made by a licensed land surveyor and U.S. mineral surveyor doing business under the firm name of California Surveying Service.
(Land lies in County of Kern, State of California)

(*b*) State any mine name by which the property is known. "Little Sparkler Claims"

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise Located claims on public domain, open for mineral entry

(*d*) If you are not the owner, submit with this application a copy of the lease, contract, or other document under which you control the property. Not applicable

(*e*) If you own the land, describe any liens or encumbrances on it See Schedule No. 1

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice. See Schedule No. 2

4. *Physical description.*—(*a*) Describe in detail any mining or exploration operations which have been or now are being conducted upon the land, including existing mine workings and production facilities. State your interest, if any, in such operations. Also describe accessibility of mine workings for examination purposes. See Schedule No. 2

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades. See Schedule No. 3

(*c*) Describe the geologic features of the property, including mineralization, type of deposit (vein, bedded, etc.), and your reasons for wishing to explore. Illustrate with maps or sketches. Send with your application (but not necessarily as a part of it) any geologic or engineering report, assay maps, or other technologic information you may have, indicating on each whether you require its return to you. See Schedule No. 3

(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points. See Schedule No. 3

(*e*) State the availability of manpower, materials, supplies, equipment, water, and power.

16—66551-1

See Schedule No. 3

5. *The exploration project.*—(*a*) State the mineral or minerals for which you wish to explore Uranium

(*b*) Describe fully the proposed work, including a map or sketch of the property showing a plan (and cross sections if needed) of any present mine workings, and the location of the proposed exploration work as related to such features as contacts, veins, ore-bearing beds, etc. See Schedule No. 4

(*c*) The work will start within 30 days and be completed within 7 months from the date of an exploration project contract.

(*d*) State the operating experience and background of the applicant with relation to the ability to carry out such exploration project, and also that of the person or persons who will supervise the operations. See Schedule No. 4

6. *Estimate of costs.*—Furnish a detailed estimate of the costs of the proposed work (you will have to use a separate sheet), under the following headings. Add the totals under all headings to give the estimated total cost of the project. Sched. No. 5

(*a*) *Independent contracts.*—(Note.—If the applicant does not intend to let any of the work to contractors, write "none" after this item. To the extent that the work is to be contracted, do not repeat the cost of the contract-work in subsequent items.) State the cost of any proposed independent contracts for the performance of all or any part of the work, expressed in terms of units of work (such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, per cubic yard of material moved, etc.).

(*b*) *Labor, supervision, consultants.*—Include an itemized schedule of numbers, classes and rates of wages, salaries or fees for necessary labor, supervision and engineering and geological consultants.

(*c*) *Operating materials and supplies.*—Furnish an itemized list, including items of equipment costing less than $50 each, and power, water and fuel.

(*d*) *Operating equipment.*—Furnish an itemized list of any operating equipment to be rented, purchased, or which is owned and will be furnished by the Operator, with the estimated rental, purchase price, or suggested use-allowance based on present value, as the case may be.

(*e*) *Rehabilitation and repairs.*—Furnish a detailed list showing the cost of any necessary initial rehabilitation or repairs of existing buildings, installations, fixtures, and movable operating equipment, now owned by the Operator and which will be devoted to the exploration project.

(*f*) *New buildings, improvements, installations.*—Furnish a detailed list showing the cost of any necessary buildings, fixed improvements, or installations to be purchased, installed or constructed for the benefit of the exploration project.

(*g*) *Miscellaneous.*—Furnish a detailed list showing the cost of repairs to and maintenance of operating equipment (not including initial rehabilitation or repairs of the Operator's equipment), analytical work, accounting, workmen's compensation and employers' liability insurance, and payroll taxes.

(*h*) *Contingencies.*—Give an estimate of any necessary allowances for contingencies not included in the costs stated above.

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*) Are you prepared to furnish your share of the cost of the proposed project in accordance with the regulations on Government participation (Sec. 7, DMEA No. 1)?

(*b*) How do you propose to furnish your share of the costs?

[X] Money [ ] Use of equipment owned by you [ ] Other

Explain in detail on acompanying paper.

## 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.

Dated September 8, 1956

Scouler, Cook, Scouler & Gardiner, a partnership

(Applicant)

By Samuel W. Gardiner

Samuel W. Gardiner, Partner

**Title 18, U. S. Code (Crimes), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.**

U. S. GOVERNMENT PRINTING OFFICE 16—66551-1

Scouler, Cook, Scouler & Gardiner
c/o S. W. Gardiner
Albert Building
San Rafael, California

SCHEDULE NO. 1

APPLICATION FOR AID IN AN EXPLORATION PROJECT, PURSUANT TO DMEA ORDER 1 - - - - (Form: MF-103)

Item

1. (d) If a partnership - -

Names and addresses of all partners:
Allen B. Scouler, 3808 Apache Ave., Bakersfield, California
Rufus E. Cook, 3210 Dartmouth St., Bakersfield, California
Lloyd Scouler, P. O. Box 163, Rio Vista, California
Samuel W. Gardiner, Albert Building, San Rafael, California

3. (a) State legal description of land - -

Refer Schedule No. 1-A

3. (e) - - -, describe any liens or encumbrances

No known liens or encumbrances excepting only attempted partially encroaching claims by one "Russell T. Miller", and/or said Russell T. Miller acting as agent for "Delta Investors, Inc.", and /or said Russell T. Miller acting as agent for "Trans-Valley Developers, Inc." These attempted encroachments by the above-named person and corporations grew out of the circumstances surrounding the Restoration Order of the Bureau of Land Management, which Order was dated April 28, 1955 and can be found in the Federal Register, Volume 20, Number 88, dated Thursday, May 5, 1955, at Page 3042.

Inasmuch as the aforementioned encroaching claims were first dated May 27, June 2, and June 3, all in 1955, and for other good reasons, to quiet title and to seek other relief, this applicant sued the aforementioned person and corporations in the State court, and the said corporations who appear to be principals have defaulted and we entered their defaults on August 30, 1955. While this matter may not be said to be closed as of the date of this application, we appear to be in an excellent legal position, and anticipate early satisfaction and, consequently, submit this application at this time to expedite your consideration of the proposed exploration project.

Scouler, Cook, Scouler & Gardiner
c/o S. W. Gardiner
Albert Building
San Rafael, California

SCHEDULE NO. 2

APPLICATION FOR AID IN AN EXPLORATION PROJECT, PURSUANT TO DMEA ORDER 1 - - - - (Form: MF-103)

Item

3. (f) If the land consists of unpatented claims - -

| Claim Name | 1st Recordations * Dates of Location | Book No. | Page No. | 2nd Recordations * Dates of Location | Book No. | Page No. |
|---|---|---|---|---|---|---|
| Little Sparkler # 1 | 2/13/54 | 2202 | 305-6 | 6/3/55 | 2436 | 201 ** |
| Little Sparkler # 2 | 2/13/54 | 2202 | 307-8 | 6/3/55 | 2436 | 203 ** |
| Little Sparkler # 3 | 4/1/54 | 2212 | 358-9 | 6/3/55 | 2436 | 205 ** |
| Little Sparkler # 4 | 4/1/54 | 2212 | 360-1 | 6/3/55 | 2436 | 207 ** |

* Note: Recordations in County of Kern, State of California

** Note: Statement of the marking of boundaries and performance of discovery work on the "June 3, 1955" basis recorded on September 1, 1955 and recordation information is not yet available.

4. (a) Describe in detail any mining or exploration operations - -

On Little Sparkler No's. 1, 3 and 4, at least two (2) open cuts to a depth of ten (10) feet have been made on each claim.

On Little Sparkler No. 2, four (4) existing open cuts to a depth of ten (10) feet have been made, plus the construction of an access road (beginning on No. 1), plus the stripping of overburden to bedrock in an area of special interest and indicated mineralization - an open cut in excess of thirty (30) feet having been made by bulldozer.

On Little Sparkler No's. 1 and 2, radiometric surveys have been made over areas of special interest.

The applicant has performed all of the aforesaid work and no other work of a mining nature has been done on the proposed exploration project - excepting only the geologic mapping currently in process. ( Note: Current exploratory mining operations are being carried on, on property contiguous to this proposed project. The adits to the Miracle and Kergon uranium mines are respectively about 800' east and 1100' south of the borders of the Little Sparkler No's. 1-4 claims.)

Scouler, Cook, Scouler & Gardiner
c/o S. W. Gardiner
Albert Building
San Rafael, California

SCHEDULE NO. 3

APPLICATION FOR AID IN AN EXPLORATION PROJECT, PURSUANT TO DMEA ORDER 1 - - - - (Form: MF-103)

Item

4. (b) State past and current production - -

No past or current production. Ore reserves not known.

4. (c) Describe the geologic features - -

Detailed maps and report being prepared and will be forwarded under separate cover.

4. (d) State the facts with respect to the accessibility - -

The proposed exploration project is located 36 road miles northeast of Bakersfield (California) and 6 miles southwest of Bodfish. California State Sign Route Highway No. 178 crosses the Little Sparkler claims No's. 1 and 2 on the south bank of, and about 250 feet above, the Kern River. This is a paved all-weather road from Bakersfield.

A short access road has already been cut from Highway 178 to provide access to the area between the Kern River and the highway on the Little Sparkler claims No's. 1 and 2. An encroachment permit has been granted by the California Division of Highways to make available this access road for mining purposes, on a permanent basis. (Refer enclosed Engineering Report, appendix, for photostat of said permit)

The railroad at Bakersfield is approximately 35 miles, or a one hour drive from the proposed project.

Supply points -: Bakersfield 36 miles; Bodfish 6 miles.

Residence points -: Bodfish-Kernville Area 6 to 17 miles.

4. (e) State the availability of manpower, materials, - -

Refer to Engineering Report, enclosed herewith, and to Page No. 8.

Supplementing the said report, it can now be said that a considerable number of men with substantial mining experience reside in the Bodfish area. In addition, competent contract-job-miners are available in the Bodfish area.

Scouler, Cook, Scouler & Gardiner
c/o S. W. Gardiner
Albert Building
San Rafael, California

SCHEDULE NO. 4

APPLICATION FOR AID IN AN EXPLORATION PROJECT, PURSUANT TO DMEA ORDER 1 - - - - (Form: MF-103)

Item

5. (a) State the minerals - -

Uranium

5. (b) Describe fully the proposed work - -

Refer to Engineering Report enclosed herewith.

Balance of information being prepared and will be forwarded under separate cover.

5. (c) The work will start - -

(Refer to Application form)

5. (d) State the operating experience and background - -

Operating experience of applicant: None

Experience of within named partners is as follows:

Allen B. Scouler - Geologist (graduate of University of California at Berkeley). In excess seven years with Exploration Dept., Standard Oil Co., of Calif.

Samuel W. Gardiner - Attorney at Law

Lloyd Scouler - Business management - 15 years in heavy construction industry, incl., 2 years coal mining, all in an administrative capacity.

Field supervision of project - It is anticipated that the person who will supervise the project on the ground is the consulting engineer-geologist-geophysicist, L. F. Ivanhoe, whose preliminary "Engineering Report" on the project is enclosed herewith.

Other lesser supervisory personnel to be hired in the area, or imported from other California mining areas.

Scouler, Cook, Scouler & Gardiner
c/o S. W. Gardiner
Albert Building
San Rafael, California

SCHEDULE NO. 5

APPLICATION FOR AID IN AN EXPLORATION PROJECT, PURSUANT TO DMEA ORDER 1 - - - - (Form: MF-103)

Item

6. Estimate of Costs
Based on preliminary "Engineering Report" enclosed herewith. For further supporting detail, please refer to said Report and particularly to the appendix thereof.

| | | |
|---|---|---|
| 6. (a) Independent contracts - - | | |
| Diamond Coring - 4500' @ $5.00 Ft | $22,500. | |
| Long Hole Percussion Drilling 1000' @ $1.00 Ft | 1,000. | |
| Drifting - 300' @ $35.00 Ft | 10,500. | |
| Construct Additional Access Roads 40 Hours @ $13.50 Hr | 540. | |
| Establish Water Supply & Set Up Facilities Lump Sum | 1,500. | $36,040. |
| (b) Labor, supervision, consultants - - | | |
| 2 Watchmen (88 Hrs Wk @ 2.10 per Hr Avg. or 184.80 Wk or 801.18 Mo @ 5 Mos. | 4,006. | |
| 1 Engineering-Geologist Consultant 5 Mos @ $1,000 Mo | 5,000. | |
| 1 Geologist - Assistant 1 Mo @ $350 | 350. | 9,356. |
| (c) Operating materials and supplies - - | | |
| Included in contract cost per ft of drift | | -0- |
| (d) Operating equipment - - | | |
| As listed on Pg. 18 of Engineering Report | 23,196. | |
| Less: Items costing less than $50 per unit | ( 961.) | 22,235. |
| (e) Rehabilitation and repairs - - | | -0- |
| (f) New buildings - - | | |
| 1 Powder Magazine | 500. | |
| 1 Watchmen's & Tool Shed | 450. | 950. |
| (g) Miscellaneous - - | | |
| Analytical | 500. | |
| Accounting (Direct only) 5 Mos @ $100 | 500. | |
| Workmen's Compensation - $9,356 @ 9.9% | 926. | |
| Employer's Liability 9,356 @ 2.0 | 187. | |
| Payroll Taxes 9,356 @ 4.7 | 440. | 2,553. |
| (h) Contingencies - 0 ($71,134 @ 10%) | | 7,113. |
| TOTAL ESTIMATE OF DIRECT COSTS | | 78,247. |

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# ENGINEERING REPORT
on the
LITTLE SPARKLER
MINING CLAIMS Nos. 1, 2, 3, 4

Kern County, California

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L. F. IVANHOE
ENGINEER, GEOLOGIST, GEOPHYSICIST
EXAMINATIONS OF MINERAL LANDS

2010 ELMWOOD AVENUE
BAKERSFIELD, CALIFORNIA

May 23, 1955

To The Partners

Mr. Allen B. Scouler - Bakersfield, California
Mr. Samuel W. Gardiner - San Rafael, California
Mr. Lloyd Scouler - Rio Vista, California

Dear Sirs:

I transmit herewith an engineering report, made for your account, on the Little Sparkler Nos. 1, 2, 3, 4 mining claims, Kern County, California. This report does not cover any of the other seven claims that you hold in the general area.

The first part of the report covers the current field status and prospects of the claims, and in the second part a program is proposed for systematic exploration of their mineral values.

The legal status of the claims is considered to be beyond the scope of this restricted engineering report, and therefore, is not included in the discussion.

Respectfully submitted,

L. F. Ivanhoe

L. F. Ivanhoe
Engineer of Mines

## ABSTRACT

The Little Sparkler mining claims #1 to 4 are located in the Kern River canyon, 35 miles east of Bakersfield, California. The property is unusually well situated with respect to the availability of all the essentials for efficient mining operations. The district has not yet been proven to have large economic reserves of uranium ore, but high grade ore is at least present in some locations near the Little Sparkler claims. A limited amount of surface work has been done but no underground work has yet been started on the Little Sparkler claims and no ore has yet been mined or blocked out. The present high guaranteed base price and initial bonus for uranium ores make this a most favorable time to open up new properties.

The proposed plan of exploration consists essentially of completion of all possible surface work, which will be followed by a subsurface program designed to give the greatest possible amount of information at the lowest cost.

## CONCLUSIONS

It is concluded that the Little Sparkler mining claims #1, 2, 3, 4 have reasonable prospects for uranium ore. A minimum of $45,000 should be available before beginning systematic exploration of the claims.

## RECOMMENDATIONS

It is recommended that:

1. All necessary steps should be taken to clarify the title, patent the claims, and comply with any pertinent legal requirements.

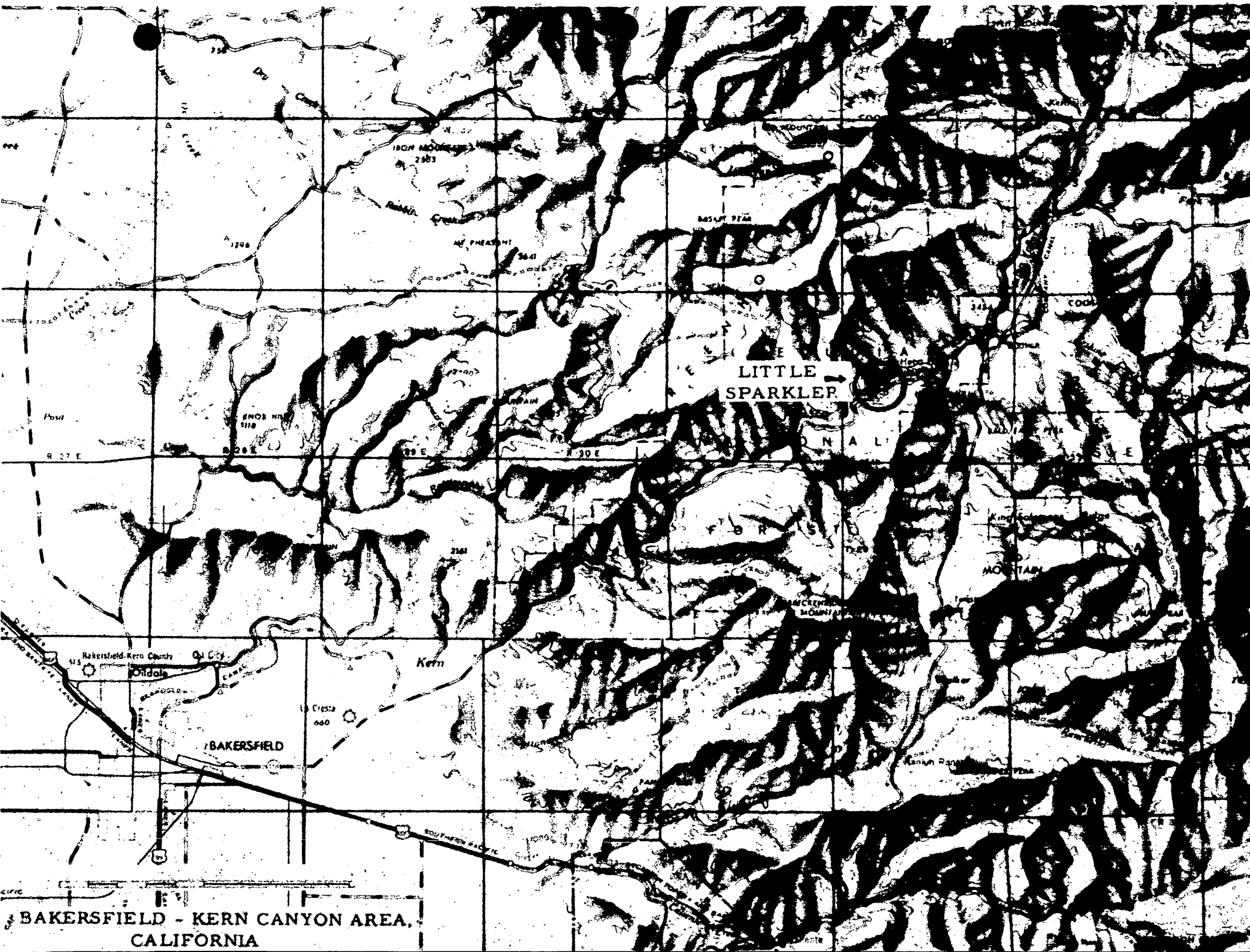
2. The first exploratory efforts should be concentrated in the area with access to the all-weather highway south of the Kern River, and above the water level of the river.

3. Surface exploration should be completed to determine the optimum location for beginning mining operations as soon as possible.

4. Gamma-ray logging and sampling of deep holes should be used to direct and supplement underground workings.

5. All work should be done in a systematic manner to assist future planning and reduce costs.

* * *




BAKERSFIELD - KERN CANYON AREA,
CALIFORNIA

## FIELD STATUS AND PROSPECTS

### LOCATION

The Little Sparkler mining claims #1, 2, 3, 4 are located in Sections 17 and 20, T. 27 S., R. 32 E., Mount Diablo Meridian, 36 road miles northeast of Bakersfield and six miles southwest of Bodfish, Kern County, California. Their location is indicated on the accompanying maps and a photostat of the recorded description of the claims is included in the appendix of this report. Claims #1 and 2 were filed on March 12, 1954 by Rufus E. Cook and Allen B. Scouler, and claims #3 and 4 on April 2, 1954 by Allen B. Scouler, Lloyd Scouler, and Rufus E. Cook.

The adits to the Miracle and Kergon uranium mines are respectively about 800' east and 1100' south of the borders of the Little Sparkler claims.

### LEGAL STATUS

A discussion of the legal status of the Little Sparkler claims is beyond the scope of this restricted engineering report. It is understood that all legal questions will be dealt with in a separate report by a mining law specialist, and therefore are not touched on here.

It is, in any case, recommended that all the necessary steps be taken to maintain the present claims in force and patent them as soon as possible.

All pertinent rules and regulations of the various government agencies that have any jurisdiction over the property should be complied with. It is quite possible that the conflicting rules of the various overlapping authorities will prove to be obstacles to the rapid execution of many plans.

### TOPOGRAPHY AND VEGETATION

The district is at the southern end of the Sierra Nevada mountain range. The topographic relief ranges from approximately 2100 to 2700 feet above sea level. Claims #1 and 2 are principally on the south side and claims #3 and 4 on the north side of the Kern River canyon. The terrain is generally very steep with most slopes approaching the angle of repose of loose alluvium. The common outcrops and huge boulders are covered in most places by a few feet of surface soil.

The turbulent Kern River is now controlled by the recently completed Isabella dam ten miles upstream from the claims. The flow is regulated to provide a continual and adequate year-around supply of water to two electric power plants in the canyon and for irrigation in the San Joaquin Valley. The river is used by many fishermen and swimmers of the Bakersfield area. Several government agencies have some jurisdiction over the use of the river.

Sufficient grass and brush is present to hold the soil and prevent rapid erosion and rock slides. Small oaks and pines are the only trees and will be unusable for mine timbers. This area is within the southern boundary of the Sequoia National Forest and mining is therefore subject to the rules and regulations of the U. S. Forest Service. The principal interest of the Forest Service is in fire prevention and control of surface erosion, since no lumbering operations exist in the immediate vicinity. The Forest Service personnel appear willing to cooperate on routine field operations.

The area is shown on the U. S. G. S. topographic map of the Tobias Peak, California quadrangle (scale 1:125,000 - contour interval 100'). The topography of the general vicinity is shown on the enclosed claim and topographic map.

## CLIMATE

The climate is very dry with less than ten inches of rainfall per year with practically no precipitation during the summer months. Freezing is common and light snows fall during the winter. Summer temperatures often exceed 100° F, with high fire danger due to the lack of rain.

## TRANSPORTATION FACILITIES

California State Highway #178 crosses the Little Sparkler claims #1 and 2 on the south bank and about 250 feet above the Kern River. This is the paved all-weather road between Bakersfield and the Upper Kern River to Death Valley area. This highway is a narrow two-lane winding mountain road with scattered wider turn-offs, and is maintained by the California Department of Highways. The traffic is relatively heavy since it connects the Isabella Lake recreation area with Bakersfield. The railroad at Bakersfield is approximately 35 miles, or a one hour drive from the property.

A short road has already been cut from Highway 178 to provide access to the area between the Kern River and the highway on the Little Sparkler claims #1 and 2.

No road or trail reaches to within several miles of the #3 and 4 claims on the north side of the river. Building of a private road to these claims would be very expensive. It is for this reason that exploration and development of the district has been restricted to those properties on the south side of the Kern River with access to the highway.

## DOMESTIC AEC URANIUM PROGRAM AND PRICE SCHEDULE

Uranium is today the only naturally occurring substance that can be used as a basic raw material in the large scale production of atomic energy. For this reason, the U. S. Atomic Energy Commission in April 1948, established a guaranteed minimum price schedule designed to stimulate the discovery and production of uranium in the United States.

When uranium is found in commercial concentrations, it may be mined and sold either to the AEC directly, or to any other person or company within the United States, provided both the buyer and seller are licensed by the Commission.

In general the AEC domestic uranium program provides for the following;

1. A guaranteed minimum price effective until March 31, 1962 of $3.50 per pound of uranium oxide contained in domestic ores or mechanical concentrates assaying at least 0.10% $U_3O_8$. The price is f. o. b. designated railroad shipping point less the cost of refining.

2. Bonus payments through February 28, 1957 for initial production from new properties up to the first 10,000 pounds $U_3O_8$. These bonus payments are on a sliding scale and range from $1.50 for ores assaying 0.10% uranium oxide to $3.50 for ores assaying 0.20% or more.

3. A development allowance of $0.50 per pound $U_3O_8$ is paid in recognition of the expenditures necessary for maintaining and increasing developed reserves of uranium ores. Sellers accepting this allowance are deemed to agree to spend such funds for the development or exploration of their properties.

4. A haulage allowance of 6¢ per ton mile for transportation of ore from the mine to the specified purchase depot up to a maximum of 100 miles. (Bakersfield railroad depot.)

A schedule of prices for uranium ore is included in the appendix of this report. A study of the price schedule reveals that ores assaying less than 0.2% uranium oxide are of much less value than the richer ores. It seems probable that ores assaying less than 0.20% will not be profitable in this area under the present selling conditions. Economical methods of concentration of the ore would appear to be advantageous under the sliding scale price schedule. No uranium processing plant exists in the Bakersfield area, and ore is currently shipped by rail to the plant at Salt Lake City, Utah.

The initial production bonus is equal to the base price of the ore, but is limited to the first 10,000 pounds of $U_3O_8$ (2000 tons @ 0.25%) from a new mine. This bonus originally applied to deliveries made between March 1, 1951 and February 28, 1954 and was later extended until February 28, 1957. It is considered to be most significant that this bonus was introduced almost three years after the initial AEC minimum prices were posted, and originally introduced for only three years. It appears that this most significant part of the price of new ore is the least predictable factor and may be much more subject to change in the future than the actual base price of the ore. Any increase in the base price or bonus would naturally improve the value of any uranium mines. On the other hand, any reduction or elimination of the initial bonus would make it uneconomical to open up many new prospects of small size. The extensive atomic energy program indicates that there will be a continuous demand for uranium ore for many more years.

The present depletion allowance on uranium ore is 23% for income tax purposes.

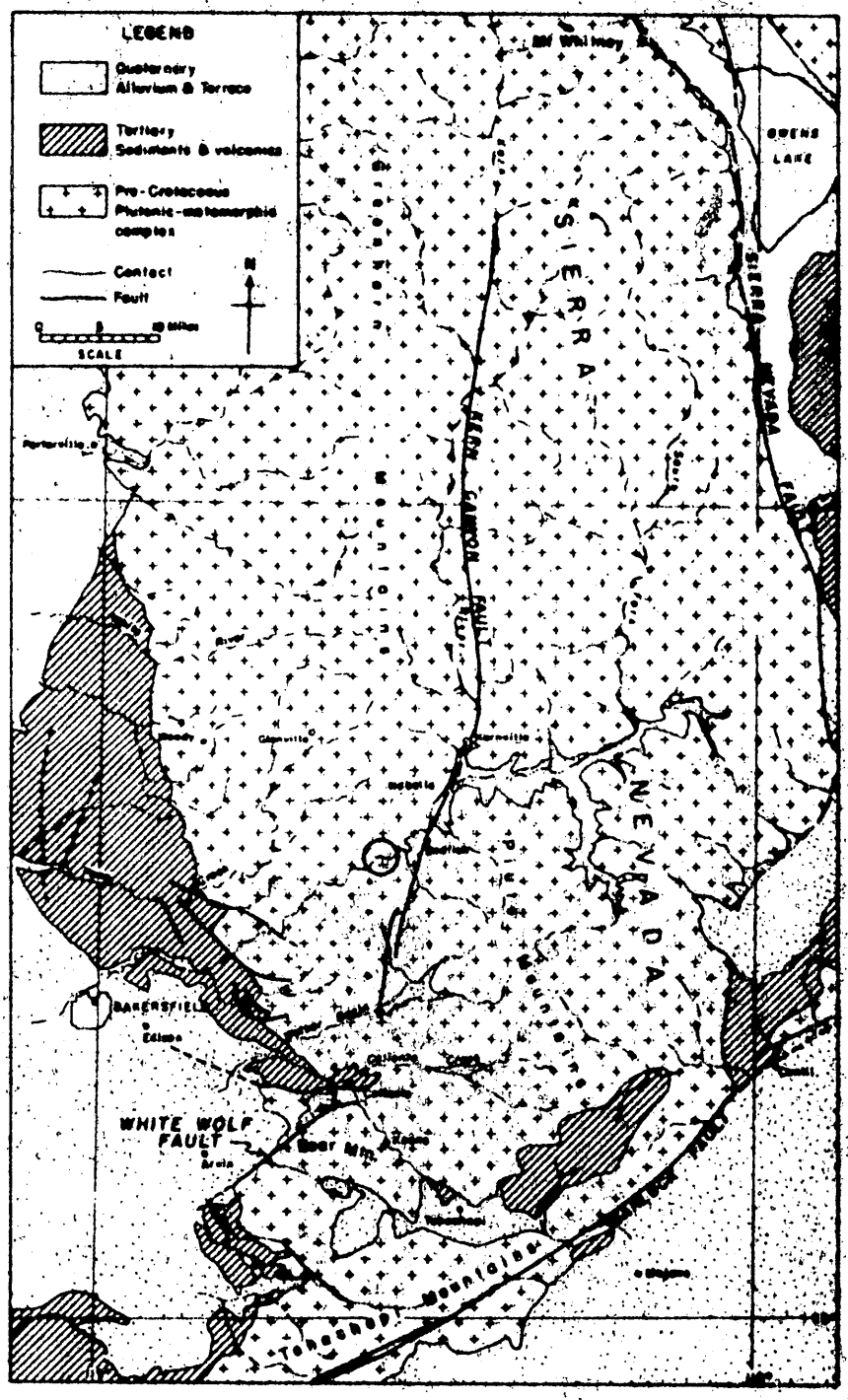
It is concluded that this is a most favorable time to explore new uranium properties, because the relatively small tonnages of ore produced during exploration would be within the bonus tonnage and therefore subject to the premium price. Mining of large tonnages at the lower base price alone would proceed only if justified by the general prospects of the mine. Exploration of small prospects should be pushed while the bonus payments are in effect.

## GEOLOGY

### Regional Geology

No detailed geological reports have ever been published on the immediate area of the claims. However, geological reports are available on the Breckenridge Quadrangle on the south, and the Kernville Quadrangle on the east of the Tobias Peak Quadrangle. The accompanying geological map of the southern Sierra Nevada shows the location of the Little Sparkler claims.

The claims are regionally located in the Pre-Cretaceous plutonic - metamorphic complex about three miles west of the major Kern Canyon Fault. Many mines for numerous minerals are known along this fault, which may be considered to be one of the major mineralized belts of the Sierra Nevada. It is possible that the Kergon - Little Sparkler - Miracle Mine area may be along a westerly offshoot of this major mineralized zone. Several hot sulphur springs exist in this vicinity (Hobo Hot Springs, etc.) and at least one hot spring exists on the Little Sparkler claims at the south bank of the Kern River. These hot springs suggest the presence of local faulting.




Geologic map of the southern Sierra Nevada showing location of
LITTLE SPARKLER AREA - ○

## URANIUM MINERALS

Autunite (calcium uranium phosphate) and torbernite (hydrous copper - uranium phosphate) are two uranium minerals that have been found at several locations in this general area. Both of these minerals are of secondary origin and occur in the oxidized zone of most uranium deposits. They have usually been found in this district in or adjacent to shear zones in areas of granite and metamorphic rocks.

Uraninite (primary uranium oxide) has been reported from the Kergon mine and it seems possible that primary minerals may be encountered at relatively shallow depths below the exposures of the aforementioned secondary minerals.

The presence of the uranium minerals in shear zones may facilitate recognition of ore shoots but may increase the cost of mining operations.

## GEOLOGY OF THE MIRACLE MINE DISTRICT

The California State Division of Mines reports that the uranium bearing minerals of the Miracle Mine are principally autunite and torbernite and occur in a northwest - trending fracture zone in biotite - hornblende quartz diorite. A 240 foot drift extends along one of the principal breaks in the fracture zone. Uranium minerals are localized discontinuously along the fracture zone and are in highest concentrations at the intersection of fractures. Commercial ore has actually been shipped from this mine.

The Kergon mine has reportedly also found spotty commercial ore which is presently being stockpiled. These underground workings has followed a northeast trending, iron stained, fracture zone for a short distance. It is possible that this general northeasterly trending zone extends onto the Little Sparkler claims.

Insufficient work has been done in the area to definitely establish the mineralized trends or extent of the ore shoots. The available evidence, however, strongly suggests that reasonably good prospects for economic uranium ore exist in the general area and also on the Little Sparkler claims. No appreciable quantities of any other commercial minerals have been found with the uranium ore in this district.

## COMMERCIAL ORE

No ore of any type has ever been taken from the Little Sparkler claims since mining has not yet started. The claims are, however, bordered by the Miracle Mine claims on the east and the Kergon claims on the south. Both of these properties have found commercial ore in their underground workings although large reserves have not yet been blocked out. Both the Miracle Mine and Kergon claims must still be considered to be in the exploratory stage.

MIRACLE MINE
Little Sandy Canyon
Aerial Photo
KERN CANYON AREA
Sec. 17, 20, T27S, R32E
Kern County, California
Feet

Approximately 46 tons of ore averaging 0.62% $U_3O_8$ were shipped from the Miracle Mine on July 31, 1954, which was the first railroad shipment of uranium ore from California. The $U_3O_8$ base value (without bonus) of the original wet ore (6% water) was about $53 per ton. (A copy of the ore buying statement is included in the appendix of this report.)

The uranium ore of the Kergon Mine is reported to actually assay considerably higher than is indicated by a routine radiation count. No ore has yet been shipped from the Kergon Mine although specimens assaying 1.00% $U_3O_8$ have been found there. It is reported that both the Miracle and Kergon Mines are now continuing underground exploration on a small scale and are stockpiling ore pending clarification of the legal status of their claims as required to obtain the bonus payments.

One of the basic problems in mining with a price premium for high grade ore is to find simple methods of mining and concentration (selective blasting, screening, hand picking, counters, etc.) which will decrease the dilution of the ore by waste rock. The specific methods of high-grading that will be most applicable to this type of ore have not yet been worked out but will undoubtedly evolve by experience. The uranium ore shipped by the Miracle Mine was partially hand picked to improve its quality, and there is some reason to believe that the grade of the ore could have been raised even higher if greater effort had been used to eliminate dilution by waste rock. It is doubtful that such high grade could be sustained in routine mining operations without some such method of concentration, even though individual ore shoots may assay appreciably higher than the average grade.

The relationship and proximity of the adjoining Miracle and Kergon Mines to the Little Sparkler claims is considered to be a favorable indication that there are reasonable prospects of also finding commercial uranium ore on the Little Sparkler claims.

## PRESENT WORKINGS AND EQUIPMENT

The most important operation yet made on the Little Sparkler claims #1 - 4 is the road that was cut by a bulldozer below Highway #178. This road will give access to the area between the highway and the river and also provides several good exposures of the bedrock. Several ten foot trench-pits were dug on the various claims to check surface showings. No underground workings or bore holes have yet been started.

A cumulative operating expense report and schedule of assets (to March 31, 1955) for all of the various claims held by this group was supplied by Mr. Lloyd Scouler. These data are included in the appendix of this report and are self-explanatory. (Note that this report is restricted to the Little Sparkler claims #1, 2, 3, 4, and does not cover any of the other claims.)

## OPERATING NECESSITIES

### LABOR

Labor is available both from Bakersfield and the Kernville - Bodfish area. Men with some mining experience live in the Kernville area and can be employed at the claim while commuting daily from their homes. This will eliminate the need for any housing at the mine itself.

No contract diamond drillers or contract job miners are available in Bakersfield, but can be imported from other areas if it is advisable to do so.

### WATER

Water can be obtained the year around from the Kern River.

### FUEL AND POWER

Electricity and petroleum fuels will probably be the most convenient for these operations. Gasoline, etc. can be brought from the Bakersfield refineries. A high tension power line crosses the land near the southern edge of claim #1. It should be possible to make arrangements to use power from this source, which would eliminate the need for a large power plant.

### MINING SUPPLIES

Some specialized mining equipment and supplies are available in Bodfish and the Bakersfield area. Many types of heavy equipment are stocked in Bakersfield for use in the oil fields and agriculture, and most machinery companies have outlets in Los Angeles. Second-hand mining machinery is, however, not plentiful locally but probably can be brought in from other mining areas.

### MINE TIMBER

The timber on the property will be of small value for mining. The necessary heavy timber will have to be brought from Bakersfield by truck and will be an expensive part of the operations ($85/1000 board feet). This may be one of the critical factors that will determine the relative profit of the mine.

The property is unusually well situated with respect to the various factors that are essential for efficient mining operations.

* * * * *

# PROPOSED PLAN FOR EXPLORATION

## OBJECTS AND SCOPE OF EXPLORATION

The main objects of exploration are to reduce mining risk, lessen cost of development, and increase profits of mining by obtaining information upon which intelligent planning of work may be based. The cheapest and quickest methods of obtaining this information are by surface exploration and by boreholes, but in this case underground exploration will be necessary and cannot be neglected.

The surface and underground exploration should be pushed far enough to determine the character and extent of irregularities in thickness and in richness, and to obtain some idea of the location and distribution of workable areas and their relations to areas of barren and unworkable ground. This is to make sure that there is sufficient ore to warrant erection of permanent facilities and to determine all questions affecting profitableness of the enterprise. On the other hand, unnecessary exploration or over-development should be avoided.

Planning of extensive mining operations will follow this exploratory phase, even though some ore will probably be taken from the exploration tunnels. Actual mining is based on large volumes with lower unit costs than is possible in the exploration or development stage of the work. It is necessary to have a certain minimum tonnage of blocked out ore before significant economies can be made by systematic mining. The available tonnage should be fairly well indicated before the "initial production bonus" (first 10,000# $U_3O_8$) is used up for the property.

## SURFACE EXPLORATION

### GENERAL CONSIDERATIONS

The value of thorough surface exploration is apt to be underestimated, It furnishes information which may either discourage further effort, or permit intelligent planning of subsequent boring or underground exploration. It prevents overlooking important exposures and secures a large amount of information with a smaller total footage of openings than haphazard work.

The value of results from surface exploration naturally depends on the amount and reliability of the information afforded by the outcrops. Surface exploration may determine the size, shape, irregularities and location and size of ore shoots even where the near surface values have been entirely or partially leached from the upper parts of the ore body.

## BASE MAP

The first essential for systematic exploration is a base map showing property lines, topography, roads, pits, underground work, assays, drill hole locations, and all obtainable details. This map should be on a scale of not less than 100 ft. to 1 inch. This base map supplements the claim survey by an authorized mineral land surveyor which is required for patenting of the claims. Numbered stakes may be set on 100 or 200 ft. squares for locating subsequent work. The master base map should show only essential general data with transparent copies thereof being used for the various detail purposes. Such maps show the relationship between the different factors, show where information is needed, and aid in eliminating unfavorable areas and in planning exploration.

The area covered by this base map should extend to include the adjoining properties. It will be very advantageous if all operators in the vicinity can be persuaded to use the same rectangular grid and elevation system to facilitate coordination of their work. The survey grid can be most easily established by tieing into the surveys made for the California State Highway #178 which crosses the various properties, and the existing aerial photos.

## SURFACE GEOLOGY MAP

The surface geology of the claims should be mapped in greatest detail and plotted on a reproducible copy of the aforementioned base map. The existing air photos should be used as an aid in this geological mapping. The underground geology of the adjacent mines should also be mapped and integrated with the surface geology to determine the probable extensions of their ore shoots. The geology and geomorphology of the general area should be reviewed to determine its bearing on the local details of these claims.

## GEOPHYSICAL SURVEYS

One of the principal characteristics of uranium ores and minerals is that they can be identified by their universal property of radioactivity, which can be detected by means of a Geiger - Mueller or Scintillator counter. This fact greatly facilitates the exploration for uranium minerals because it enables direct detection of nearby ore. The gamma rays from uranium that are detectable with a counter, however, have only slight penetration power and are absorbed by about one foot of rock or a few hundred feet of air. Where the soil is more than one or two feet thick, a surface reading gives the radioactivity of the soil and not of the underlieing rock. High surface readings can consequently be considered to be good evidence of the presence of radioactive minerals near the surface, but low readings do not preclude the possibility of rich uranium ore existing only a few feet deep. A few other elements (notably thorium) are also radioactive and it is not possible to distinguish between the radiations emitted by the minerals of thorium and uranium except in a scientific laboratory. A variable "background count" also exists which must be subtracted from all readings to give the corrected local radioactive value.

A systematic grid survey should be made of the radioactivity of the entire property and the corrected results posted on a copy of the base map. Isorad contours can then be drawn on these values to show the more radioactive trends at the surface. This isorad map can then be studied together with the topographic and surface geology maps and overburden thickness to help determine the optimum areas to proceed with trenching, boring, or underground work. Individual "hot spots" on the isorad map should be tested by counter readings at the bottom of small holes two feet deep to check on the possibility that the high readings are only on the surface soil.

No other geophysical methods of prospecting are recommended at this time. It is possible that future work will show some correlation between ore and the various properties that can be measured by other geophysical methods, but such additional surveys should be deferred until such correlation is definitely established.

## SURFACE OPENINGS

Surface openings include all efforts to expose the outcrop for examination, and should follow up favorable prospects discovered by the surface geology and radioactivity mapping. Such surface openings can be done at much less cost and greater speed than underground work, and from this standpoint they should be completed before starting underground because of the high risk of opening underground ore bodies.

The presence of the Kern River and California State Highway #178 serve as two excellent surface openings that cross the property. The additional access road between the highway and river provides another exposure. It is recommended that the feasibility be considered of bulldozing additional roads across the property south of the river, to provide access to the area for future operations as well as provide surface openings. Such roads should be located where they will provide the greatest amount of information at the lowest cost.

It seems possible that these extensive road cuts will eliminate the need for additional large surface openings, except such as may be required to follow up leads developed by the road cuts themselves.

## UNDERGROUND EXPLORATION

### GENERAL

The preliminary (and most economical) phase of the exploratory program will be finished when the topography, surface geology, and radioactivity are mapped and all required surface openings completed. A considered review of all factors should be made at that time to determine the most advantageous procedure to follow for further underground exploration.

It is impossible to accurately estimate the cost of such exploratory work because the required amount of work cannot be determined in advance. Simple methods should be employed and unnecessary expenditures for equipment should be avoided. Careful consideration should be given to contracting specific phases of the work to avoid purchasing of equipment and reduce expenses of supervision. Such exploration is considerably more expensive than the mining phase that follows it.

As all uranium ores are spotty and irregularly distributed in scattered and relatively small deposits, prospecting is important even after commercial development has begun. The search for ore will require a careful study of the geological and mineralogical conditions. Care in observing local changes in the appearance and association of the minerals in the vein filling may lead to the discovery of new ore bodies or new ore shoots.

## BORE HOLES

Drilling of deep test holes is an integral part of underground exploration. Boreholes supplement rather than replace actual underground openings. Boreholes have the advantage that they can be drilled faster and cheaper than tunnels, and waste disposal is not a problem. However, such boreholes have the disadvantage that they cannot be accurately located without special surveys to correct for drift, and they may cut rich veins at barren spots. This latter disadvantage is partially offset by logging the radioactivity of the holes. The use of boreholes may be considered to give qualitative information as compared to actual quantitative information obtained from tunnels. Such qualitative information, however, is most useful to supplement and direct the openings and reduce the number of cross cuts and drifts necessary to prove up a claim and block out ore. The presence of good ore in cores would justify underground workings to check the shows and also indicate the approximate location and depth to which the openings would be needed.

Boreholes may be either from surface or subsurface locations. The rocks in this area are very hard and the terrain too steep to permit the efficient use of conventional churn drills or rotary drills with ordinary bits. Both diamond and percussive drills are capable of drilling holes of an appreciable depth to give significant data to direct underground workings and help block out ore. The diamond drill has the advantage in that an actual core is obtained which can be examined at the surface, and very long holes can be drilled. The core recovery, however, is never 100% and important gaps in the cores are common. Sludge samples can be saved and drilling rates recorded to supplement the cores. The long-hole pneumatic rock drills can drill holes up to 100 feet deep, but only sludge samples can be obtained. Blank diamond bits can also drill long holes without taking cores.

Any type of bore hole is suitable for logging with a special deep hole - radioactive probe to detect ore within one foot of the hole. The use of this probe greatly increases the value of general borehole drilling and decreases the advantage of obtaining actual cores. It is believed that the use of the radioactive - deep hole probe in long rock drill holes will prove to more economical than diamond coring if it can be shown that the radioactive logging is as reliable as the cores themselves in this area.

It is recommended that a limited diamond borehole program from surface locations be started upon completion of the surface mapping. This program can precede and guide the underground openings. Both the cores and core holes should be logged with a radioactive probe to calibrate the value of uncored boreholes. If it is concluded that in this area gamma-ray logging alone is equally satisfactory, then borehole program could be continued with the more economical coreless drill holes. Such holes can be drilled with either a blank diamond bit for very long holes or with pneumatic long hole drills for intermediate depths. The purchase of a special pneumatic long-hole drill and accessories may be well justified at that time to work from underground locations. Some cores may always be desired for special problems.

It may be advantageous to have the first diamond drilling performed by contract drillers to avoid the investment for equipment and reduce the necessary supervision for such specialized work. The actual contract bids on coring or blank bit boring will help determine the relative economic merits of the different subsurface exploration methods.

The final number and locations of the deep drill holes will be determined by the results of the surface and subsurface exploration. Diamond coring, deep hole drilling, and drifting can proceed simultaneously at different locations since they are complimentary methods of exploration. Detailed notes should be kept on all the details and results of the drilling and representative samples saved at convenient intervals.

It is recommended that most diamond drill holes at this time from surface locations be generally limited to depths that will explore only the zone above the water level on the south side of Kern River. Mining problems below that depth will require special hoisting, pumps, etc. and, therefore, will be appreciably more expensive than mining of those ore shoots that can be reached by drifts rather than shafts. Exploration below the river level will be justified only if the shallower results are encouraging, or if the bottom of the oxidized zone is not reached in shallow holes. It therefore seems inadvisable to bore holes to excessive depths at this time. The lack of a suitable access road to the north side of the Kern River makes that area less favorable for the possibility of any immediate return on the investment.

## UNDERGROUND WORKINGS

It cannot be too strongly emphasized that all feasible preliminary planning, surface work, and boring should be completed before commencing actual underground operations. This is due to the high cost and risk of underground exploration. The justification of the underground workings and selection of their location should be based on a critical examination of all the existing data, and every effort should be made to insure that the tunnels are started at the best possible locations. High grade surface showings or cores would be the best reasons for making the initial locations.

The underground work at first should be so conducted as to obtain information even at the expense of making some special excavations of no value for final mining purposes. The underground exploration should extend far enough in depth to prove the character of the unaltered deposit below the zone of surface action, or to prove the existence of a sufficiently large body of altered material for mining operations. The number of openings (drifts, etc.) made in the deposit will depend on the local conditions. In these deposits of irregular and uncertain character, the openings should not be so far apart as to permit large areas of barren or unworkable ground to escape detection. Cross cuts or boreholes should be driven at intervals to search for or prove parallel beds or fissures.

Assays should be made from time to time on carefully taken average samples. These samples will be supplemented by gamma-ray logging of boreholes and results of any shipments of ore taken out during the exploratory work. The results should be tabulated on assay maps of about 1" - 20' scale.

It is desirable to plan and locate exploratory openings with reference to possible future development, but this should be subordinate to the primary object of exploration. As a general rules, the workings should be kept in the ore body to help give an immediate return on the investment. The first work should be done on the best showings to see whether or not they are superficial. The cost should be kept as low as possible due to the high risk involved. Veins outcropping in such steep terrain should be explored by drift tunnels and raises rather than by sinking shafts. This is because the workings drain themselves and hoisting is avoided. Drifts should be kept as small as practical and the back arched to reduce the need for expensive timbering.

Waste disposal may soon become a problem in such steep terrain and to avoid contamination of the Kern River. It is recommended that the proper authorities be contacted to ascertain whether the waste can be dumped along the edge of the highway to fill the ravine that crosses the property. This would give additional working area on which to operate along the narrow highway, while also disposing of the waste rock. Mining waste will eventually be used to backfill old workings.

The exhaust from the air drills will probably suffice to provide ventilation during the early stages of exploration, but two separate openings to the underground workings should be made for ventilation and safety as early as is practical. All safety precautions should be observed and safety equipment maintained in good condition.

## COORDINATION OF VARIOUS MINING PROBLEMS

It seems possible that the various mining properties in the vicinity can effect appreciable savings by coordination of their operations and purchases where ever practical. This would require only a minor amount of planning, but would prove beneficial to all parties.

Such operations that could be coordinated include: safety measures and equipment, spare parts, timber, water, labor, special tools and services, engineering and mapping, quantity purchases and stockpiling of all types, publicity, government agency contacts, contract drilling, transportation costs, power facilities, etc. Where ever practical, it may be to the mutual advantage to use the same size and types of equipment to reduce loss of time due to breakdowns and lack of spare parts.

Small operations often suffer from a lack of spare minor parts and adequate supervision. Spreading of the cost of these items reduces the general overhead of each operation without losing the autonomy of the individual properties.

Sub-contracting of the various routine operations is an accepted procedure in all mining. This allows more accurate cost estimates and generally reduces overall costs while increasing speed. Most underground work requires a great deal of routine supervision unless the men are employed on a contract basis. Sub-contracting of diamond coring, deep hole drilling, and routine tunneling is highly recommended and should be thoroughly investigated before being rejected, as a normal operating procedure.

## COST ESTIMATES

All capital expenditures should be kept at a minimum, and all equipment should be considered for its resale value. Common builders equipment rather than specialized mining machinery should be used whenever practical. Second-hand equipment should be definitely considered for all purposes.

The following cost estimates are only qualitative since a complete estimate is beyond the scope of this report. Some of the most common basic equipment for mining is listed in the appendix. Many unlisted items would undoubtedly be required in the course of the work.

It is estimated that approximately $25,000 of basic equipment and supplies will be needed to start systematic exploration underground. Labor costs will be about $50 per three man shift, or an estimated $5,000 for 300' of tunneling. Total costs for underground tunneling are estimated at $35 per lineal foot, but there are not yet sufficient data available in this district to make accurate cost or progress estimates. Contract diamond coring costs are at $5 per foot. Long hole drilling is estimated at $1.00 per foot.

Examination of the basic equipment needs show that the largest item is for an air compressor and the associated equipment. Mining equipment generally has only a low resale value, and it may be possible to pick up some used items at appreciable savings.

It is believed that a minimum of $20,000 working capital should be available after acquisition of the basic equipment, or a minimum of $40,000 to $50,000 total. Additional capital may be needed for additional exploration if the first results are encouraging.

The planning of actual mining operations is not covered in this report, which is principally concerned with exploration. Additional equipment and investment will be required when mining starts. The type and amount of necessary equipment will depend on the method of mining employed, which will be based on the actual results obtained in the exploration work.

* * * * * * * *

# APPENDIX

Claim Descriptions

Cumulative Operating Expense Report

Schedule of Assets

Highway Encroachment Permit

AEC Schedule of Prices for Uranium Ore

Copy of Statement on Sale of Miracle Mine Uranium Ore

Cost Data

## BASIC EQUIPMENT FOR MINING EXPLORATION

(With 100' Long Hole Drilling)

| Quantity | Item | Unit Cost | Total Cost |
|---|---|---|---|
| 1 | Air Compressor (I. R. Gyroflo - 315 cfm - gasoline | | $ 8,850 |
| 2 | Jack Hammers (I. R. - J-50) | $400 | 800 |
| 2 | Jack Legs for Jack Hammers | 265 | 530 |
| 1 | Drifter - Heavy with Bar Mountings | | 1,000 |
| 1 | Electric Generator - 1700 W - 110V - gasoline | | 325 |
| 1 | Hoist - 1000# - air - single drum slusher | | 700 |
| 1 | Pump - portable fire fighters | | 370 |
| 1 | Water Tank - 1000 gal. galv. - no lid | | 90 |
| 1 | Grinder and emery wheels | | 75 |
| 1 | Electric Hand Saw - Skil 8" | | 90 |
| 1 | Mine Car | | 100 |
| 1 | Wheelbarrow - Contractors | | 30 |
| 3 | Air hoses - 50' w/couplings - 1/2" (water) | 22 | 66 |
| 3 | Air hoses - 50' w/couplings - 3/4" (air) | 28 | 84 |
| 3 | Line air strainers | 18 | 54 |
| 3 | Line Oilers | 25 | 75 |
| 1 | Air line water trap | | 100 |
| 6 | Drill steel rods - 3' | 6 | 36 |
| 6 | Drill steel rods - 6' | 9 | 54 |
| 2 | Drill steel rods - 9' | 11 | 22 |
| 25 | Drill steel rods - 4' - double thread | 10 | 250 |
| 25 | Drill steel rod couplings | 4 | 100 |
| 10 | Carbon Set Rock Bits | 15 | 150 |
| 2 | Mucking Plates - steel 1/4" x 3' x 3-1 | 20 | ~~150~~ 90 |
| | | Sub Total | $ 14371 |
| | Air Blower Unit (17") w/300' Ventilation pipe, valves, etc. | | 2,500 |
| | Diamond Core Drill (600' cap.) - Gasoline | | 4,000 |
| | Rods & Acc. for 600' Diamond Drill | | 1,500 |
| 1 | Scintillator Counter | | 600 |
| 1 | Scintillator Tube - deep hole probe | | 100 |
| 500' | Scintillator Tube Cable | 25¢/ft. | 125 |
| | | Total | $ 23,196 |

## BASIC EQUIPMENT FOR MINING

| Quantity | Item | Unit Cost | Total Cost |
|---|---|---|---|
| 1 | Hand Hoist - 5 ton | | 100 |
| 10 | Shovels | 3.00 | 30 |
| 4 | Picks | 3.50 | 14 |
| 3 | Sledge Hammers | 3.50 | 10 |
| 2 | Axes | 4.00 | 8 |
| 2 | Chain Wrenches | 4.00 | 8 |
| 2 | 18" Pipe Wrenches | 5.00 | 10 |
| 1 | Pipe Cutter & Threader Set (Hand) | 40.00 | 40 |
| 1 | Pipe Vise | | 10 |
| 1 | Bench Vise (5") | | 50 |
| 1 | Chain Hoist (1 ton) | | 35 |
| 2 | Jacks - 20 ton | 12.00 | 24 |
| 2 | Logging Chains (20') | 30.00 | 60 |
| 3 | Wrecking Bars | 1.00 | 3 |
| 1 | Set Hand Tools | | 100 |
| 300' | 1" Manila Rope | 12.00 | 36 |
| 200' | 1/4" Wire Rope | 10/100' | 20 |
| 200' | 1/2" Wire Rope | 13/100' | 26 |
| 1 | Load Binder | 6.00 | 6 |
| 4 | Floodlights | 7.00 | 28 |
| 500' | Electric Cable | 35.00 | 35 |
| 5 gal. | Paint | 3.00 | 15 |
| 1 | Galv. Tub | 3.00 | 3 |
| 4 | 2" Valves | 6.00 | 24 |
| 4 | 1" Valves | 2.50 | 10 |
| 1 keg | Nails - 16d | 14.00 | 14 |
| 1 keg | Spikes 12" | 14.00 | 14 |
| 2 | Cross Cut Saws | 4.00 | 8 |
| 4 | Carbide Lamps (Hat) | 4.00 | 16 |
| 1 | 10 gal. Water Can | 20.00 | 20 |
| 4 | Water Bags | 2.00 | 8 |
| 1 | First Aid Kit | | 20 |
| | | | $ 805 |

## SUPPLIES

| Quantity | Item | Unit Cost | Total Cost |
|---|---|---|---|
| 5000' | Mine Timber | 85/1000 | 425 |
| 1 drum | Lube oil | 25 | 25 |
| 25# | Grease | 5 | 5 |
| 4500# | Dynamite (40% gel) | 26/100# | 1600 |
| 1000 | Blasting Caps | 4.50/100 | 45 |
| 6000' | Fuse | 2/100' | 120 |
| 400# | Carbide | 8 | 32 |
| 2000 gal. | Gasoline | 25¢/gal | 500 |
| 200 sq ft. | Galvanized Corrugated Steel | 20/$3.50 | 35 |
| 200 | Ties | @ .50 | 100 |
| 700' | Rails (lightest 8# - 2") | | 250 |
| | Rail Spikes, Bolts & Plates | | 75 |
| 300' | 2" Galv. Water pipe | 48/100 | 150 |
| 500' | 1" Galv. Water pipe | 23/100 | 125 |
| 10 | Carbon Set Rock Bits | Av. $15 | 150 |
| | | | $ 3637 |

## CONTRACT RATES (Average)

| | |
|---|---|
| Diamond Coring (above 1000') | $5/ft. plus casing |
| Plug Diamond Drilling | $3/ft. |
| Diamond Coring Rental | $25 - 30/Day plus labor and supplies |
| Bulldozer | $13.50/hour |

## ESTIMATED COST

| | |
|---|---|
| Drifting (total cost) | $35/ft. |
| @ 2 shifts of 3 men/5 ft. advance ) 2/3 total cost | |
| 15# dynamite/ft. advance ) | |
| Long Hole percussion drilling (125'/day) | $1/ft. |
| Diamond Bit Costs per foot of core hole | 30¢/ft. |
| Diamond Drill Rates - per rig day | 50 - 70 feet |

Notice of Location

LODE

Allen B. Scouler
Rufus E. Cook

1500

West

State Highway

Monument of Section 20, T27S, R32E, and

DATED

LOCATORS

Notice of Location

LODE

Allen B. Scouler
Rufus E. Cook
Lloyd Scouler

1500

West

Monument

DATED

LOCATORS

2212

Notice of Location

LODE

TO WHOM IT MAY CONCERN

(1) We Scouler No. 3

Hobbs Springs

Kern

(2) We

Allen B. Scouler
Rufus E. Cook
Lloyd Scouler

(3) 1500

(4) Monument 8598 to the corner Monument common to Sections 15, 16, 21 and 22, T27S, R32E which bears approximately S88°E (true bearing), and lies across Sections 17 and 20, T27S, R32E.

(5) 1st April 59

(6)

(7) April 2, 59

DATED

WITNESS

LOCATORS

Allen B. Scouler
Lloyd Scouler

2212

Notice of Location

LODE

TO WHOM IT MAY CONCERN

(1) We Scouler No. 4

Hobbs Springs

Kern

(2) We

Allen B. Scouler
Rufus E. Cook
Lloyd Scouler

(3) 1500

(4) Monument 8400 to the corner Monument common to Sections 15, 16, 21, and 22, T27S, R32E which bears approximately S85°E (true bearing), and lies in Section 17, T27S, R32E.

(5) 1st April 59

(6)

(7) April 2 59

DATED

WITNESS

LOCATORS

Allen B. Scouler
Lloyd Scouler

STATEMENT OF THE MARKING OF THE BOUNDARIES
AND OF PERFORMANCE OF DISCOVERY WORK

NOTICE IS HEREBY GIVEN by the undersigned Locators of the within described Lode Mining Claim, in accordance with the provisions of Chapter 564 of the Statutes of 1951 which amend Section 2320 of the Public Resources Code of the State of California relating to mining claims, as follows:

(1) That there has been erected at the discovery point, at each corner and at the center of each end line of said claim, [illegible] in excess of eighteen inches in height painted red.

(2) The Locators have performed discovery work as required by Section 2324, Public Resources Code as follows: [illegible]

(3) That the discovery work indicated above has been completed within ninety (90) days from the date of location of said claim.

DATED: April 2, 1954

LOCATORS: Allen Schmalz, Floyd Smith, Rufus E. Cook

DO NOT RECORD

No. ____

NOTICE OF LOCATION
Lode Claim
Statement of the Marking of the Boundaries and of Performance of Discovery Work

CLAIMANT

Mining Claim
Mining District
County ____ 19__
Filed ____

Owner No. ____
When recorded, please send this instrument to: Mr. Allen F. Smith, 1702 Rose Avenue, Bakersfield, California

16639

RECORDED AT REQUEST OF Rufus E. Cook, MAR 2 1954



STATEMENT OF THE MARKING OF THE BOUNDARIES
AND OF PERFORMANCE OF DISCOVERY WORK

NOTICE IS HEREBY GIVEN by the undersigned Locators of the within described Lode Mining Claim, in accordance with the provisions of Chapter 564 of the Statutes of 1951 which amend Section 2320 of the Public Resources Code of the State of California relating to mining claims, as follows:

(1) That there has been erected at the discovery point, at each corner and at the center of each end line of said claim, each monument.

(2) The Locators have performed discovery work as required by Section 2324, Public Resources Code as follows: [illegible] has been dug.

(3) That the discovery work indicated above has been completed within ninety (90) days from the date of location of said claim.

DATED: 12 March 1954

LOCATORS: Rufus E. Cook, Allen Schmalz

DO NOT RECORD

No. ____

NOTICE OF LOCATION
Lode Claim
Statement of the Marking of the Boundaries and of Performance of Discovery Work

CLAIMANT

Mining Claim
Mining District
County ____ 19__
Filed ____

Owner No. ____
When recorded, please send this instrument to: 331 Grant St. Tehachapi

13164

RECORDED AT REQUEST OF Rufus E. Cook, MAR 12 1954



STATEMENT OF THE MARKING OF THE BOUNDARIES
AND OF PERFORMANCE OF DISCOVERY WORK

NOTICE IS HEREBY GIVEN by the undersigned Locators of the within described Lode Mining Claim, in accordance with the provisions of Chapter 564 of the Statutes of 1951 which amend Section 2320 of the Public Resources Code of the State of California relating to mining claims, as follows:

(1) That there has been erected at the discovery point, at each corner and at the center of each end line of said claim, each monument.

(2) The Locators have performed discovery work as required by Section 2324, Public Resources Code as follows: a hole dug in depth [illegible] has been dug.

(3) That the discovery work indicated above has been completed within ninety (90) days from the date of location of said claim.

DATED: 12 March 1954

LOCATORS: Allen Schmalz, Rufus E. Cook

DO NOT RECORD

No. ____

NOTICE OF LOCATION
Lode Claim
Statement of the Marking of the Boundaries and of Performance of Discovery Work

CLAIMANT

Mining Claim
Mining District
County ____ 19__
Filed ____

Owner No. ____
When recorded, please send this instrument to: 331 Grant St. Tehachapi

13163

RECORDED AT REQUEST OF Rufus E. Cook, MAR 12 1954

45441

# Notice of Location

LODE 30580

(See Sections 2301 - 2304, Inclusive, Public Resources Code)

TO WHOM IT MAY CONCERN, Please take notice that:

(1) The name of this claim is Bald Eagle No. 1 Lode Mining Claim. Said claim is situated in the Hobo Hot Springs Mining District, County of Kern, State of California.

(2) The names of the locators of said claim are

Rufus E. Cook
Allen B. Scouler
Lloyd Scouler
Samuel W. Gardiner

Said locators are citizens of the United States of America or ___ declared ___ intention ___ to become such.

(3) The said locators do hereby locate and claim 1500 linear feet of this vein or lode, together with surface ground extending 300 feet in width on each side of the middle of said vein or lode and more particularly described as follows:

Commencing at a monument where this notice is posted, which monument is at the point of discovery on said vein or lode and on the center line of this location, we hereby claim 750 feet extending in a northwesterly direction along the course of said vein and 750 feet in a southeasterly direction. The general course of the vein or lode is northwesterly and southeasterly as near as can be determined from present developments.

The discovery monument is situated about 9000 feet from the top of Hooper Hill. Hooper Hill bears N 7?°E from this monument, and Bald Eagle peak bears S 70°E from this monument. As nearly as can be determined this monument is located in section 21, T27S, R32E, MDB&M. All monuments in this claim of 1500 by 600 feet are of natural rock, in excess of eighteen inches in height, and are painted red.

(4) The date of this location is the 5th day of June, 1954

(5) This notice is intended as an original notice of location and is posted on this claim and a true copy thereof is to be recorded with the County Recorder of this County.

(6) All dips, variations, spurs, angles and all veins, ledges, or deposits within the lines of this claim, together with all water and timber and any other rights appurtenant, allowed by the laws of this State or of the United States of America are hereby claimed.

DATED June 5, 1954

WITNESSES: LOCATORS:

[signatures]

Footnotes 1, 2, 3, and 4: See Reverse Side.

LOCATION NOTICE - Lode, Calif. - Wolcotts Form 1104 - Revised September 1950





45442

# Notice of Location

LODE 30581

(See Sections 2301 - 2304, Inclusive, Public Resources Code)

TO WHOM IT MAY CONCERN, Please take notice that:

(1) The name of this claim is Bald Eagle No. 2 Lode Mining Claim. Said claim is situated in the Hobo Hot Springs Mining District, County of Kern, State of California.

(2) The names of the locators of said claim are

Allen B. Scouler
Rufus E. Cook
Lloyd Scouler
Samuel W. Gardiner

Said locators are citizens of the United States of America or ___ declared ___ intention ___ to become such.

(3) The said locators do hereby locate and claim 1500 linear feet of this vein or lode, together with surface ground extending 300 feet in width on each side of the middle of said vein or lode and more particularly described as follows:

Commencing at a monument where this notice is posted, which monument is at the point of discovery on said vein or lode and on the center line of this location, we hereby claim 750 feet extending in a northwesterly direction along the course of said vein and 750 feet in a southeasterly direction. The general course of the vein or lode is northwesterly and southeasterly as near as can be determined from present developments.

The discovery monument is situated about 9600 feet from the top of Hooper Hill. Hooper Hill bears N 7?°E, and Bald Eagle Peak bears S 72°E from this monument. As nearly as can be determined this monument is located in section 21, T27S, R32E, MDB&M. All monuments in this claim are of natural rock, in excess of eighteen inches in height, and are painted red.

(4) The date of this location is the 5th day of June, 1954

(5) This notice is intended as an original notice of location and is posted on this claim and a true copy thereof is to be recorded with the County Recorder of this County.

(6) All dips, variations, spurs, angles and all veins, ledges, or deposits within the lines of this claim, together with all water and timber and any other rights appurtenant, allowed by the laws of this State or of the United States of America are hereby claimed.

DATED June 5, 1954

WITNESSES: LOCATORS:

[signatures]

Footnotes 1, 2, 3, and 4: See Reverse Side.

LOCATION NOTICE - Lode, Calif. - Wolcotts Form 1104 - Revised September 1950





45443

# Notice of Location

LODE 30582

(See Sections 2301 - 2304, Inclusive, Public Resources Code)

TO WHOM IT MAY CONCERN, Please take notice that:

(1) The name of this claim is Bald Eagle No. 3 Lode Mining Claim. Said claim is situated in the Hobo Hot Springs Mining District, County of Kern, State of California.

(2) The names of the locators of said claim are

Lloyd Scouler
Rufus E. Cook
Samuel W. Gardiner
Allen B. Scouler

Said locators are citizens of the United States of America or ___ declared ___ intention ___ to become such.

(3) The said locators do hereby locate and claim 1500 linear feet of this vein or lode, together with surface ground extending 300 feet in width on each side of the middle of said vein or lode and more particularly described as follows

Commencing at a monument where this notice is posted, which monument is at the point of discovery on said vein or lode and on the center line of this location we hereby claim 750 feet extending in a northwesterly direction along the course of said vein and 750 feet in a southeasterly direction. The general course of the vein or lode is northwesterly and southeasterly as near as can be determined from present developments

The discovery monument is situated about 7800 feet from the top of Hooper Hill. Split Mountain bears N 15°E, and the water tower at Isabella Dam bears N 32°E from this monument. As nearly as can be determined this monument is located in section 28, T27S, R32E, MDB&M. All monuments in the claim are of natural rock in excess of eighteen inches in height, and are painted red.

(4) The date of this location is the 5th day of June, 1954

(5) This notice is intended as an original notice of location and is posted on this claim and a true copy thereof is to be recorded with the County Recorder of this County

(6) All dips, variations, spurs, angles and all veins, ledges, or deposits within the lines of this claim, together with all water and timber and any other rights appurtenant, allowed by the laws of this State or of the United States of America are hereby claimed

DATED June 5, 1954

WITNESSES: LOCATORS:

[signatures]

Footnotes 1, 2, 3, and 4: See Reverse Side.

LOCATION NOTICE - Lode, Calif. - Wolcotts Form 1104 - Revised September 1950



45444

30583

# Notice of Location

LODE

(See Sections 2301 - 2304, Inclusive, Public Resources Code)

TO WHOM IT MAY CONCERN, Please take notice that:

(1) The name of this claim is Bald Eagle No. 4 Lode Mining Claim. Said claim is situated in the Hobo Hot Springs Mining District, County of Kern, State of California.

(2) The names of the locators of said claim are

Samuel W. Gardiner
Rufus E. Cook
Lloyd Scouler
Allen B. Scouler

Said locators are citizens of the United States of America or ___ declared ___ intention ___ to become such.

(3) The said locators do hereby locate and claim 1500 linear feet of this vein or lode, together with surface ground extending 300 feet in width on each side of the middle of said vein or lode and more particularly described as follows:

Commencing at a monument where this notice is posted, which monument is at the point of discovery on said vein or lode and on the center line of this location we hereby claim 750 feet extending in a northwesterly direction along the course of said vein and 750 feet in a southeasterly direction. The general course of the vein or lode is northwesterly and southeasterly as near as can be determined from present developments

The discovery monument is situated about 7000 feet from the top of Hooper Hill. Hooper Hill bears N 78°E, and Bald Eagle Peak bears S 70°E from this monument. As nearly as can be determined this monument is located near the east edge of section 28, T27S, R32E, M.D.B.&M. All monuments on this claim are of natural rock, in excess of eighteen inches in height, and are painted red.

(4) The date of this location is the 5th day of June, 1954

(5) This notice is intended as an original notice of location and is posted on this claim and a true copy thereof is to be recorded with the County Recorder of this County

(6) All dips, variations, spurs, angles and all veins, ledges, or deposits within the lines of this claim, together with all water and timber and any other rights appurtenant, allowed by the laws of this State or of the United States of America are hereby claimed

DATED June 5, 1954

WITNESSES: LOCATORS:

[signatures]

Footnotes 1, 2, 3, and 4: See Reverse Side.

LOCATION NOTICE - Lode, Calif. - Wolcotts Form 1104 - Revised September 1950

STATEMENT OF THE MARKING OF THE BOUNDARIES
AND OF PERFORMANCE OF DISCOVERY WORK

NOTICE IS HEREBY GIVEN by the undersigned Locator(s) of the within described Lode Mining Claim, in accordance with the provisions of Chapter 944 of the Statutes of 1941 which amend Section 2320 of the Public Resources Code of the State of California relating to mining claims, as follows:

(1) That there has been erected at the discovery point, at each corner and at the center of each end line of said claim, [illegible] in height and painted red.

(2) The Locator(s) has (have) performed discovery work as required by Section 2324, Public Resources Code as follows: [illegible] upon the Claim.

(3) That the discovery work indicated above has been completed within ninety (90) days from the date of location of said claim.

DATED: August 3, 1954 LOCATORS:

Allen B. Scouler

DO NOT RECORD

NOTICE OF LOCATION
Lode Claim
Statement of the Marking and of the Performance of Discovery Work

No. 15444

CLAIMANT

Mining Claim
Mining District
County
Filed 19

RECORDED AT REQUEST OF Allen B. Scouler SEP 3 1954
Fee $1.00 Official Records Fee $1.00 Kern County Records
Chas. H. Thomas
Deputy

30533
RECORDED AT REQUEST OF A. B. Scouler JUN 17 1954
Fee $1.00 Official Records Fee $1.00 Kern County Records
Chas. H. Thomas
Deputy

COMPARED

Owner No.
When recorded, please mail this instrument to
Mr. G. S. Scouler
1902 Bar Harr Dr.
Bakersfield, Calif.



STATEMENT OF THE MARKING OF THE BOUNDARIES
AND OF PERFORMANCE OF DISCOVERY WORK

NOTICE IS HEREBY GIVEN by the undersigned Locator(s) of the within described Lode Mining Claim, in accordance with the provisions of Chapter 944 of the Statutes of 1941 which amend Section 2320 of the Public Resources Code of the State of California relating to mining claims, as follows:

(1) That there has been erected at the discovery point, at each corner and at the center of each end line of said claim, [illegible] in height and painted red.

(2) The Locator(s) has (have) performed discovery work as required by Section 2324, Public Resources Code as follows: [illegible] upon the Claim.

(3) That the discovery work indicated above has been completed within ninety (90) days from the date of location of said claim.

DATED: August 3, 1954 LOCATORS:

Allen B. Scouler

DO NOT RECORD

NOTICE OF LOCATION
Lode Claim
Statement of the Marking and of the Performance of Discovery Work

No. 15443

CLAIMANT

Mining Claim
Mining District
County
Filed 19

RECORDED AT REQUEST OF Allen B. Scouler SEP 3 1954
Fee $1.00 Official Records Fee $1.00 Kern County Records
Chas. H. Thomas
Deputy

30532
RECORDED AT REQUEST OF A. B. Scouler JUN 17 1954
Fee $1.00 Official Records Fee $1.00 Kern County Records
Chas. H. Thomas
Deputy

COMPARED

Owner No.
When recorded, please mail this instrument to
Mr. G. S. Scouler
1902 Bar Harr Dr.
Bakersfield, Calif.



STATEMENT OF THE MARKING OF THE BOUNDARIES
AND OF PERFORMANCE OF DISCOVERY WORK

NOTICE IS HEREBY GIVEN by the undersigned Locator(s) of the within described Lode Mining Claim, in accordance with the provisions of Chapter 944 of the Statutes of 1941 which amend Section 2320 of the Public Resources Code of the State of California relating to mining claims, as follows:

(1) That there has been erected at the discovery point, at each corner and at the center of each end line of said claim, [illegible] in height and painted red.

(2) The Locator(s) has (have) performed discovery work as required by Section 2324, Public Resources Code as follows: [illegible] upon the Claim.

(3) That the discovery work indicated above has been completed within ninety (90) days from the date of location of said claim.

DATED: August 3, 1954 LOCATORS:

Allen B. Scouler

DO NOT RECORD

NOTICE OF LOCATION
Lode Claim
Statement of the Marking and of the Performance of Discovery Work

No. 15442

CLAIMANT

Mining Claim
Mining District
County
Filed 19

RECORDED AT REQUEST OF Allen B. Scouler SEP 3 1954
Fee $1.00 Official Records Fee $1.00 Kern County Records
Chas. H. Thomas
Deputy

30531
RECORDED AT REQUEST OF A. B. Scouler JUN 17 1954
Fee $1.00 Official Records Fee $1.00 Kern County Records
Chas. H. Thomas
Deputy

COMPARED

Owner No.
When recorded, please mail this instrument to
Mr. G. S. Scouler
1902 Bar Harr Dr.
Bakersfield, Calif.



STATEMENT OF THE MARKING OF THE BOUNDARIES
AND OF PERFORMANCE OF DISCOVERY WORK

NOTICE IS HEREBY GIVEN by the undersigned Locator(s) of the within described Lode Mining Claim, in accordance with the provisions of Chapter 944 of the Statutes of 1941 which amend Section 2320 of the Public Resources Code of the State of California relating to mining claims, as follows:

(1) That there has been erected at the discovery point, at each corner and at the center of each end line of said claim, [illegible] in height and painted red.

(2) The Locator(s) has (have) performed discovery work as required by Section 2324, Public Resources Code as follows: [illegible] upon the Claim.

(3) That the discovery work indicated above has been completed within ninety (90) days from the date of location of said claim.

DATED: August 3, 1954 LOCATORS:

Allen B. Scouler

DO NOT RECORD

NOTICE OF LOCATION
Lode Claim
Statement of the Marking and of the Performance of Discovery Work

No. 15441

CLAIMANT

Mining Claim
Mining District
County
Filed 19

RECORDED AT REQUEST OF Allen B. Scouler SEP 3 1954
Fee $1.00 Official Records Fee $1.00 Kern County Records
Chas. H. Thomas
Deputy

30530
RECORDED AT REQUEST OF A. B. Scouler JUN 17 1954
Fee $1.00 Official Records Fee $1.00 Kern County Records
Chas. H. Thomas
Deputy

COMPARED

Owner No.
When recorded, please mail this instrument to
Mr. G. S. Scouler
1902 Bar Harr Dr.
Bakersfield, Calif.

45446 30179 BK 2247 PG 507

# Notice of Location

LODE

(Sec. 2320 - 2324, Inclusive, Public Revenue Code)

TO WHOM IT MAY CONCERN: Please take notice that:

(1) The name of this claim is Lucky Hill 1, Lode Mining Claim. Said claim is situated in the Mule Hot Springs Mining District, County of Kern, State of California.

(2) The name(s) of the locator(s) of said claim are:

Rufus E. Cook — Stanwell W. Gardiner
Allen B. Scanlon
Lloyd Scanlon

Said locator(s) are citizen(s) of the United States of America or ____ declared ____ intention to become such.

(3) The said locator(s) do hereby locate and claim 1500 linear feet of this vein or lode, together with surface ground extending 300 feet to width on each side of the middle of said vein or lode and more particularly described as follows:

Commencing at a Monument where this notice is posted, which Monument is at the point of discovery on said vein or lode and on the center line of this location, left, hereby claim 750 feet extending in a North only direction along the course of said vein and 750 feet in a South only direction. The general course of the vein or lode is North only and South only or as may or can be determined from present developments.

The discovery Monument is situated about 7100 feet from the highest point on Harper Hill and is located as nearly as can be determined, in Section 16, T27S, R32E, M.D.B.&M. Harper Hill is located in Section 23, T27S, R32E M.D.B.&M. All monuments on this claim are of natural rock, in excess of eighteen inches in height, and are painted red. Harper Hill bears S74°E from this monument.

(4) The date of this location is the 13th day of June, 19 54

(5) This notice is intended as an original notice of location and is posted on this claim and a true copy thereof is to be recorded with the County Recorder of this County.

(6) All dips, variations, spurs, angles and all veins, ledges or deposits within the lines of this claim, together with all water and timber and any other rights appurtenant, allowed by the laws of this State or of the United States of America are hereby claimed.

DATED: June 13, 19 54

WITNESSES:

LOCATORS:
Lloyd Scanlon
Stanwell W. Gardiner
Allen B. Scanlon
Rufus E. Cook

Pursuant L. & S. Code of the Revenue Code.

LOCATION NOTICE - Lode Claim - Sequoia Form 1104 - Revised September 1950



45446 30179

# Notice of Location

LODE

(Sec. 2320 - 2324, Inclusive, Public Revenue Code)

TO WHOM IT MAY CONCERN: Please take notice that:

(1) The name of this claim is Lucky Hill 2, Lode Mining Claim. Said claim is situated in the Mule Hot Springs Mining District, County of Kern, State of California.

(2) The name(s) of the locator(s) of said claim are:

Allen B. Scanlon — Stanwell W. Gardiner
Rufus E. Cook
Lloyd Scanlon

Said locator(s) are citizen(s) of the United States of America or ____ declared ____ intention to become such.

(3) The said locator(s) do hereby locate and claim 1500 linear feet of this vein or lode, together with surface ground extending 300 feet to width on each side of the middle of said vein or lode and more particularly described as follows:

Commencing at a Monument where this notice is posted, which Monument is at the point of discovery on said vein or lode and on the center line of this location, left, hereby claim 750 feet extending in a North only direction along the course of said vein and 750 feet in a South only direction. The general course of the vein or lode is North only and South only or as may or can be determined from present developments.

The discovery Monument is situated about 8400 feet from the highest point on Harper Hill, and is located, as nearly as can be determined, in section 16, T27S, R32E M.D.B.&M. All monuments on this claim are of natural rock, in excess of eighteen inches in height, and are painted red. Harper Hill bears S74°E from this monument.

(4) The date of this location is the 13th day of June, 19 54

(5) This notice is intended as an original notice of location and is posted on this claim and a true copy thereof is to be recorded with the County Recorder of this County.

(6) All dips, variations, spurs, angles and all veins, ledges or deposits within the lines of this claim, together with all water and timber and any other rights appurtenant, allowed by the laws of this State or of the United States of America are hereby claimed.

DATED: June 13, 19 54

WITNESSES:

LOCATORS:
Lloyd Scanlon
Stanwell W. Gardiner
Allen B. Scanlon
Rufus E. Cook

Pursuant L. & S. Code of the Revenue Code.

LOCATION NOTICE - Lode Claim - Sequoia Form 1104 - Revised September 1950



16541

# Notice of Location

LODE

(Sec. 2320 - 2324, Inclusive, Public Revenue Code)

TO WHOM IT MAY CONCERN: Please take notice that:

(1) The name of this claim is Lucky Sparkler No. 5, Lode Mining Claim. Said claim is situated in the Mule Hot Springs Mining District, County of Kern, State of California.

(2) The name(s) of the locator(s) of said claim are:

Allen B. Scanlon
Rufus E. Cook
Lloyd Scanlon

Said locator(s) are citizen(s) of the United States of America or ____ declared ____ intention to become such.

(3) The said locator(s) do hereby locate and claim 1500 linear feet of this vein or lode, together with surface ground extending 300 feet to width on each side of the middle of said vein or lode and more particularly described as follows:

Commencing at a Monument where this notice is posted, which Monument is at the point of discovery on said vein or lode and on the center line of this location, left, hereby claim 750 feet extending in a East only direction along the course of said vein and 750 feet in a West only direction. The general course of the vein or lode is East only and West only or as may or can be determined from present developments.

The discovery Monument is situated about 11150 feet from the corner Monument common to sections 15, 16, 21 and 22, T27S, R32E which bears approximately N77°E and the corner section 19 and 20 T27S, R32E (this is a true bearing).

(4) The date of this location is the 1st day of April, 19 54

(5) This notice is intended as an original notice of location and is posted on this claim and a true copy thereof is to be recorded with the County Recorder of this County.

(6) All dips, variations, spurs, angles and all veins, ledges or deposits within the lines of this claim, together with all water and timber and any other rights appurtenant, allowed by the laws of this State or of the United States of America are hereby claimed.

DATED: April 2, 19 54

WITNESSES:

LOCATORS:
Allen B. Scanlon
Lloyd Scanlon
Rufus E. Cook

Pursuant L. & S. Code of the Revenue Code.

LOCATION NOTICE - Lode Claim - Sequoia Form 1104 - Revised September 1950

STATEMENT OF THE MARKING OF THE BOUNDARIES

AND OF PERFORMANCE OF DISCOVERY WORK

NOTICE IS HEREBY GIVEN by the undersigned Locator S of the within described Lode Mining Claim, in accordance with the provisions of Chapter 644 of the Statutes of 1941 which amend Section 2320 of the Public Resources Code of the State of California relating to mining claims, as follows:

(1) That there has been created at the discovery point at each corner and at the center of each end line of said claim, Natural rock monuments in excess of eighteen inches in height and painted red

(2) The Locator has performed discovery work as required by Section 2324, Public Resources Code as follows: Lode was cut to at least 10 feet below surface of this claim.

(3) That the discovery work indicated above has been completed within twenty (20) days from the date of location of said claim.

DATED August 3, 1957

LOCATORS

DO NOT RECORD

No. 45446

NOTICE OF LOCATION

Lode Claim

Statement of the Marking of the Boundaries and of Performance of Discovery Work

CLAIMANT

Mining Claim

Mining District

County

State

10

RECORDED AT REQUEST OF

Wm. B. Sumner

SEP 9 1964

Fee

When recorded please send this Statement to

Mr. Allan B. Sumner

1002 Rose Marie Dr.

Bakersfield, California

30379

RECORDED AT REQUEST OF

A. B. Sumner

JUN 17 1964

Fee

STATEMENT OF THE MARKING OF THE BOUNDARIES

AND OF PERFORMANCE OF DISCOVERY WORK

NOTICE IS HEREBY GIVEN by the undersigned Locator S of the within described Lode Mining Claim, in accordance with the provisions of Chapter 644 of the Statutes of 1941 which amend Section 2320 of the Public Resources Code of the State of California relating to mining claims, as follows:

(1) That there has been created at the discovery point at each corner and at the center of each end line of said claim, Natural rock monuments in excess of eighteen inches in height and painted red

(2) The Locator has performed discovery work as required by Section 2324, Public Resources Code as follows: Lode was cut to at least 10 feet below surface of this claim.

(3) That the discovery work indicated above has been completed within twenty (20) days from the date of location of said claim.

DATED August 3, 1957

LOCATORS

DO NOT RECORD

No. 45445

NOTICE OF LOCATION

Lode Claim

Statement of the Marking of the Boundaries and of Performance of Discovery Work

CLAIMANT

Mining Claim

Mining District

County

State

10

RECORDED AT REQUEST OF

Wm. B. Sumner

SEP 9 1964

Fee

When recorded please send this Statement to

Mr. Allan B. Sumner

1002 Rose Marie Dr.

Bakersfield, Calif.

30378

RECORDED AT REQUEST OF

A. B. Sumner

JUN 17 1964

Fee

Scouler, Gardiner Scouler

CUMULATIVE OPERATING EXPENSE REPORT
TO MARCH 31, 1955

| | Little Sparkler #'s 1-4 | Little Sparkler # 5 | Hobo #'s 1-2 | Bald Eagle #'s 1-4 | TOTAL |
|---|---|---|---|---|---|
| EXPLORATION EXPENSE | | | | | |
| Labor | | | 154.60 | 478.55 | 633.15 |
| Compensation Insurance | | | 7.75 | 23.01 | 30.76 |
| Payroll Taxes | | | 7.28 | 24.78 | 32.06 |
| Rentals Paid To Others | 6.00 | | | | 6.00 |
| Operating Supplies- | | | | | |
| Fuel & Lubricants | 11.70 | | 1.03 | 2.05 | 14.78 |
| Explosives & Supplies | 72.25 | 12.50 | 10.62 | 42.12 | 137.49 |
| Small Tools | 29.16 | 7.28 | 5.69 | 17.06 | 59.19 |
| Repair Parts | 16.10 | | 10.14 | 148.12 | 174.36 |
| Drill Steel & Bits | 8.03 | | 10.46 | 20.92 | 39.41 |
| Hose & Fittings | | | 1.47 | 2.94 | 4.41 |
| Safety Appliances | 20.40 | | .82 | 1.64 | 22.86 |
| Miscellaneous | 17.07 | .51 | 1.58 | 9.17 | 28.33 |
| Pack Animals | | | | 187.00 | 187.00 |
| General Field Expense | | | 22.76 | 72.43 | 95.19 |
| Special Services | 17.50 | | | | 17.50 |
| Stripping (by contract) | 1250.00 | | | | 1250.00 |
| TOTAL EXPLORATION EXPENSE | 1448.21 | 20.29 | 234.20 | 1029.79 | 2732.49 |
| DEPRECIATION EXPENSE | | | | | 191.00 |
| GENERAL & ADMINISTRATIVE EXPENSE | | | | | |
| Stationery & Supplies | | | | | 4.20 |
| Telephone & Telegraph | | | | | 86.21 |
| Miscellaneous | | | | | 18.35 |
| Legal (Special Service) | | | | | 26.00 |
| Maps, Photos & Blueprints | | | | | 135.30 |
| General Insurance | | | | | 177.41 |
| | | | | | 447.47 |
| OTHER EXPENSE (Interest) | | | | | 36.84 |
| * TOTAL OPERATING EXPENSE | | | | | * 3407.80 |

* Note: Excludes non-reimbursed expenses by individual partners, estimated to be approximately $5,000 and, of course, excludes partners' time.

Excludes deferred expenses, such as unexpired insurance.

ls 4/20/55

c: Ivanhoe
A. B. S.
S. W. G.
L. S.
File

Scouler, Gardiner & Scouler

SCHEDULE OF ASSETS
As Of March 31, 1955

FIXED ASSETS

| Description | Date of Acquisition | New/ Used | Cost |
|---|---|---|---|
| (1) Precision Radiation Instruments Inc., Scintillator Serial # 111H0448 | 6/4/54 | New | 511.45 |
| (1) Syntron Self-contained Gas Driven Hammer, Style # 1721, Serial # L6FB23692 | 8/9/54 | Used | 150.00 |
| (1) Ultra-Violet Products Inc., Mineralight, Model V-42, Complete with Carrying Case and Case | 3/17/55 | New | 76.83 |
| | | | 738.28 |
| Less: Reserve for Depreciation to 3/31/55 | | | 191.00 |
| FIXED ASSETS - NET | | | 547.28 |

NOTE:
Re question of equipment owned - Partnership owns, in addition to above-listed items, certain items charged directly to expense and not inventoried. For example, Portable Explosives Magazine of 2nd Class - Metal Covered - and tools and miscellaneous supplies.

ls 4/20/55

cc: Ivanhoe
A. B. S.
S. W. G.
L. S.
File

Form F-202 Rev.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

No. 600,733-E

DIVISION OF HIGHWAYS

# ENCROACHMENT PERMIT

RECEIVED
SEP 16 1955

To Scouler, Cook, Scouler & Gardiner
P. O. Box 163
Rio Vista, California

Fresno, California

May 2 19 55

*In compliance with your request of* April 13 19 55 *and subject to all the terms, conditions and restrictions written below or printed as general or special provisions on any part of this form*

PERMISSION IS HEREBY GRANTED TO make a permanent access road from temporary access road built under Encroachment Permit No. 600,354-E, on the northerly side of State Highway VI-Ker-57-H at Station 463±.

Road shall be used exclusively for the exploration, development and operation of a proposed underground mining project.

Type of equipment using the road shall be primarily trucks carrying equipment and supplies required in a mining operation, including removal of ore produced; other vehicles on a limited basis.

Permittee shall keep a barricade in place at point of encroachment on the State Highway, except when a vehicle is entering or leaving the access road.

Permittee shall fix reflector units so they may be readily removed and replaced when vehicles enter or leave access road.

Road may be used only by permittee's equipment approaching from the east.

All traffic from acess road must proceed to the east after entering State Highway.

Portion of access road within State highway right of way shall be surfaced with decomposed granite and compacted to prevent tracing of mud on pavement.

All work shall be done to the satisfaction of Superintendent C. F. Johnson.

PERMIT NOT VALID UNTIL SUPERINTENDENT IS NOTIFIED AT LEAST TWENTY-FOUR HOURS PRIOR TO STARTING WORK, NOTIFY:

Mr. C. F. Johnson, Supt., P. O. Box 228, Bakersfield, California; Ph: FA4944.

*This permit is to be strictly construed and no work other than that specifically mentioned above is authorized hereby.*

*This permit shall be void unless the work herein contemplated shall have been completed before* Good until revoked.

CC: GTM, CFJ(2), DO

DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

G. T. McCOY
State Highway Engineer

By [signature]
Dist. Mtce. Engr.

# GENERAL PROVISIONS

1. *Definition.* This permit is issued under Chapter 3 of Division 1 of the Streets and Highways Code. The term encroachment is used in this permit as defined in the said Chapter 3 of said code. Except as otherwise provided for public agencies and franchise holders, this permit is revocable on five days notice.

2. *Acceptance of Provisions.* It is understood and agreed by the Permittee that the doing of any work under this permit shall constitute an acceptance of the provisions.

3. *No Precedent Established.* This permit is granted with the understanding that this action is not to be considered as establishing any precedent on the question of the expediency of permitting any certain kind of encroachment to be erected within right of way of State highways.

4. *Notice Prior to Starting Work.* Before starting work on which an inspector is required, or whenever stated on the face of this permit, the Permittee shall notify the District Engineer or other designated employee of the district in which the work is to be done. Such notice shall be given at least three days in advance of the date work is to begin.

5. *Keep Permit on the Work.* This permit shall be kept at the site of the work and must be shown to any representative of the Division of Highways or any law enforcement officer on demand.

6. *Permits from Other Agencies.* The party or parties to whom this permit is issued shall, whenever the same is required by law, secure the written order or consent to any work hereunder from the Public Utilities Commission of the State of California, or any other public board having jurisdiction, and this permit shall be suspended in operation unless and until such order or consent is obtained.

7. *Protection of Traffic.* Adequate provision shall be made for the protection of the traveling public. Barricades shall be placed with red lights at night, also flagmen employed, all as may be required by the particular work in progress.

8. *Minimum Interference With Traffic.* All work shall be planned and carried out so that there will be the least possible inconvenience to the traveling public except for the specific work permitted.

9. *Storage of Material.* No material shall be stored within eight (8) feet from the edge of pavement or traveled way or within the shoulder line where the shoulders are wider than eight feet.

10. *Clean Up Right of Way.* Upon completion of the work, all brush, timber, scraps and material shall be entirely removed and the right of way left in as presentable condition as before work started.

11. *Standards of Construction.* All work shall conform to recognized standards of construction.

12. *Supervision of Grantor.* All the work shall be done subject to the supervision of, and to the satisfaction of, the grantor.

13. *Future Moving of Installation.* It is understood by the Permittee that whenever construction, reconstruction or maintenance work on the highway may require, the installation provided for herein shall, upon request of the Department of Public Works, Division of Highways, be immediately moved by, and at the sole expense of, the Permittee.

14. *Expense of Inspection.* On work which requires the presence of an employee of the Division of Highways as inspector, the salary, traveling expense and other incidental expense of such inspection during the work shall be paid by the Permittee upon presentation of a bill therefor.

15. *Liability for Damages.* The Permittee is responsible for all liability for personal injury or property damage which may arise out of work herein permitted, or which may arise out of failure on the Permittee's part to perform his obligations under this permit in respect to maintenance. In the event any claim of such liability is made against the State of California, or any department, officer, or employee thereof, Permittee shall defend, indemnify and hold them and each of them harmless from such claim. This permit shall not be effective for any purpose unless and until the above named Permittee files with the Department of Public Works, Division of Highways, a surety bond in the form and amount required by said department, unless specifically exempted on the face hereof. The requirement that a bond be filed does not apply in the event the Permittee is a governmental board which derives its revenue by taxation.

16. *Making Repairs.* If the grantor shall so elect, repairs to paving which has been disturbed shall be made by employees of the grantor and the expenses thereof shall be borne by the Permittee, who shall purchase and deliver on the road the materials necessary for said work as directed by the State Highway Engineer. All payments to laborers, inspectors, etc., employed by said grantor for or on account of the work herein contemplated, shall be made by said Permittee forthwith on receipt of written orders, pay rolls or vouchers approved by grantor. Or the grantor may elect to require a deposit before starting repairs, in an amount sufficient to cover the estimated cost thereof.

The grantor will give reasonable notice of its election to make such repairs. If the grantor does not so elect, the grantee shall make such repairs promptly. In every case the grantee shall be responsible for restoring any portion of the highway which has been excavated or otherwise disturbed to its former condition as nearly as may be possible except where the grantor elects to make repairs to paving as above provided in this paragraph and except where provision to the contrary is made in the typewritten portion of the permit.

17. *Care of Drainage.* If the work herein contemplated shall interfere with the established drainage, ample provision shall be made by the Permittee to provide for it as may be directed by the grantor.

18. *Submit Location Plan.* Upon completion of underground or surface work of consequence, the Permittee shall furnish plan to the District Office showing location and details.

19. *Maintenance.* The grantee agrees by the acceptance of this permit to exercise reasonable care to maintain properly any encroachment placed by it in the highway and to exercise reasonable care in inspecting for and immediately repairing and making good any injury to any portion of the highway which occurs as a result of the maintenance of the encroachment in the highway or as a result of the work done under this permit, including any and all injury to the highway which would not have occurred had such work not been done or such encroachment not placed therein.

# PIPES, CONDUITS, GAS PUMPS, ETC.

20. *Crossing Roadway.* Service and other small diameter pipes shall be jacked or otherwise forced underneath pavement without disturbing same. Pavement or roadway shall not be cut unless specifically permitted on the face hereof. Service pipes will not be permitted inside of metal culvert pipes used as drainage structures.

21. *Limit Excavation.* No excavation is to be made closer than eight (8) feet from the edge of the pavement except as may be specified.

22. *Tunneling.* No tunneling will be permitted except on major work as may be specifically set forth on the face hereof.

23. *Depth of Pipes.* There shall be a minimum of [illegible] of cover over all pipes or conduits.

24. *Backfilling.* All backfilling is to be moistened as necessary and thoroughly hand tamped, there being not less than one tamper to each shoveler. Whenever required by the grantor, a trench crossing the roadway shall be backfilled with gravel or crushed rock.

25. *Preserve Surfacing Material.* Whenever a gravel or crushed rock surface is trenched, such material shall be placed at one side and when backfilling is started the rock material shall be replaced to its original position.

26. *Maintain Surface.* The Permittee shall maintain the surface over structures placed hereunder as long as necessary.

27. *Pipes Along Roadway.* Pipes and utilities paralleling the pavement shall be located at the distance from traveled way and at such depth as specifically directed on the face hereof. Cutting of tree roots will not be permitted.

# POLES, WIRES, CABLES AND OVERHEAD STRUCTURES

28. *Location Pole Lines, etc.* Pole lines shall be located one foot from the property line unless otherwise specified on the face hereof.

29. *Public Utilities Commission Orders.* All clearances and type of construction shall be in accordance with the applicable orders of the Public Utilities Commission of the State of California.

30. *Permission from Property Owners.* Whenever necessary to secure permission from abutting property owners, such authority must be secured by the Permittee prior to starting work.

31. *Clearance of Trees.* Poles must be of such height as to permit clearance over a tree 40 feet in height, where quick growing trees are in place. At locations where slow growing trees are in place, normal construction standard may be followed at the option of the pole line company, with provision to ultimately clear a 40-foot tree.

32. *Guy Wires.* No guy wires are to be attached to trees except on specific authority and in no event shall they be so attached as to girdle the tree or interfere with its growth. Guy wires shall be kept at a minimum elevation of six feet above the ground whenever so directed.

33. *Clearing Around Poles.* The Permittee shall remove and keep clear all vegetation from within a radius of at least five feet of the poles.

34. *Painting or Visibility Strips.* All poles are to be painted for a distance of six feet above the ground using white lead and oil or aluminum paint or in lieu thereof, when poles have creosoted butts, wood, metal or other approved type of visibility strips may be placed. Wood strips are to be Douglas fir 1" x 3"—5' long placed on 6" centers about the base of pole and painted with white lead and oil or aluminum paint. If metal strips are used such strips may be placed either vertically or horizontally. Paint is to be renewed as often as may be required to maintain a satisfactory covering. If not painted when installed or renewed as the grantor may consider necessary, the right is reserved to have this painting done and the Permittee hereby agrees to bear the cost thereof under the terms of this permit.

Poles that do not present a possible traffic hazard will be given consideration for exemption from these provisions upon written request of Permittee accompanied by pertinent data as to pole location, difference in elevation, etc. The grantor's decision will be final in this regard.

35. *Remove Old Poles, Guys and Stubs.* The entire length of such timbers shall be removed from the ground and the holes backfilled and thoroughly tamped.

# PLANTING TREES

36. *Location and Species.* The location and kind of trees to be planted shall be specified on the face of this permit.

37. *Planting and Maintenance Cost.* The Permittee must bear the cost of planting the trees. The arrangement as to maintenance of the trees shall be specifically set forth on the face of the permit. In particular cases arrangements may be made for the Division of Highways to do this work upon deposit of a certain sum for each tree which is to be planted. The Division of Highways reserves the right to assume the maintenance or to decline to do so as conditions justify.

38. *Group Planting.* The cost of group plantings and similar special work which may be agreed upon with the Division of Highways shall be borne by the Permittee. Land for such plantings shall be secured in fee by the Permittee and turned over to the State. Plantings for parking and picnic grounds will not be considered in this connection.

# REMOVAL OR TRIMMING OF ROADSIDE TREES

39. *Removal of Trees.* When permit is granted for removal of a tree as an independent operation or as a part of other work, the entire stump shall be taken out for a depth of at least two feet blow the ground surface.

40. *Clearing the Site.* All timber and debris shall be removed from the right of way. The hole left by the stump shall be backfilled and thoroughly tamped and the site left in a presentable condition.

41. *Trimming of Trees.* In general, only light trimming of branches two inches or less in diameter will be permitted and only when specifically so stated on the face hereof. The shapeliness of the tree must be preserved.

42. *Inspection.* If the permit requires inspection by the State during progress of the work the cost of inspection shall be borne by the Permittee. No charge will be made for occasional routine inspection.

## *Road Approaches, Connecting Pavements and Minor Work*

43. *Grades and Specifications.* Grades and types of construction shall be as detailed by plans or stated on the face of this permit.

44. *Borrow and Waste.* Only such borrow and waste will be permitted and within the limits as set forth on the face of this permit.

45. *Minor Work.* Grading down of small banks, small ditches, placing of awnings, and other similar minor work shall be governed by the general provisions and as detailed on the face hereof.

## *Signs*

46. *Clearance of Signs.* The minimum clearance from the sidewalk shall be twelve feet.

## *Railroad Crossings*

47. *Safety and Convenience.* The future safety and convenience of the traveling public shall be given every consideration in the location and type of construction.

48. *Meet Highway Grade.* The grade and superelevation of the track must conform to the grade of the highway at point of crossing.

49. *Width of Paving.* The crossing shall be planked or paved as may be specified on the face of this permit for the full roadway and shoulder width.

## SCHEDULE OF PRICES FOR URANIUM ORE

(As Specified in Circ. 5 Revised, and Circ. 6)

| Grade of Ore, Percent $U_3O_8$ | Pounds of $U_3O_8$ per Ton of Ore | Base Price: Pound $U_3O_8$ | Base Price: Ton of Ore | Grade Premium: 75¢ a lb. Over 4-lb. | Grade Premium: 25¢ a lb. Over 10-lb. | Mine Develop. Allowance .50/lb. | Price per Ton of Ore: Price Before Initial Prod. Bonus & Haulage Allowance | Price per Ton of Ore: Initial Prod. Bonus on 10,000 lbs. | Price per Ton of Ore: Price Before Haulage Allowance |
|---|---|---|---|---|---|---|---|---|---|
| 0.10 | 2.00 | $1.50 | $ 3.00 | $ - | $ - | $ 1.00 | $ 4.00 | $ 3.00 | $ 7.00 |
| 0.11 | 2.20 | 1.70 | 3.74 | - | - | 1.10 | 4.84 | 3.74 | 8.58 |
| 0.12 | 2.40 | 1.90 | 4.56 | - | - | 1.20 | 5.76 | 4.56 | 10.32 |
| 0.13 | 2.60 | 2.10 | 5.46 | - | - | 1.30 | 6.76 | 5.46 | 12.22 |
| 0.14 | 2.80 | 2.30 | 6.44 | - | - | 1.40 | 7.84 | 6.44 | 14.28 |
| 0.15 | 3.00 | 2.50 | 7.50 | - | - | 1.50 | 9.00 | 7.50 | 16.50 |
| 0.16 | 3.20 | 2.70 | 8.64 | - | - | 1.60 | 10.24 | 8.64 | 18.88 |
| 0.17 | 3.40 | 2.90 | 9.86 | - | - | 1.70 | 11.56 | 9.86 | 21.42 |
| 0.18 | 3.60 | 3.10 | 11.16 | - | - | 1.80 | 12.96 | 11.16 | 24.12 |
| 0.19 | 3.80 | 3.30 | 12.54 | - | - | 1.90 | 14.44 | 12.54 | 26.98 |
| 0.20 | 4.00 | 3.50 | 14.00 | - | - | 2.00 | 16.00 | 14.00 | 30.00 |
| 0.21 | 4.20 | do | 14.70 | 0.15 | - | 2.10 | 16.95 | 14.70 | 31.65 |
| 0.22 | 4.40 | do | 15.40 | 0.30 | - | 2.20 | 17.90 | 15.40 | 33.30 |
| 0.23 | 4.60 | do | 16.10 | 0.45 | - | 2.30 | 18.85 | 16.10 | 34.95 |
| 0.24 | 4.80 | do | 16.80 | 0.60 | - | 2.40 | 19.80 | 16.80 | 36.60 |
| 0.25 | 5.00 | 3.50 | 17.50 | 0.75 | - | 2.50 | 20.75 | 17.50 | 38.25 |
| 0.26 | 5.20 | do | 18.20 | 0.90 | - | 2.60 | 21.70 | 18.20 | 39.90 |
| 0.27 | 5.40 | do | 18.90 | 1.05 | - | 2.70 | 22.65 | 18.90 | 41.55 |
| 0.28 | 5.60 | do | 19.60 | 1.20 | - | 2.80 | 23.60 | 19.60 | 43.20 |
| 0.29 | 5.80 | do | 20.30 | 1.35 | - | 2.90 | 24.55 | 20.30 | 44.85 |
| 0.30 | 6.00 | 3.50 | 21.00 | 1.50 | - | 3.00 | 25.50 | 21.00 | 46.50 |
| 0.31 | 6.20 | do | 21.70 | 1.65 | - | 3.10 | 26.45 | 21.70 | 48.15 |
| 0.32 | 6.40 | do | 22.40 | 1.80 | - | 3.20 | 27.40 | 22.40 | 49.80 |
| 0.33 | 6.60 | do | 23.10 | 1.95 | - | 3.30 | 28.35 | 23.10 | 51.45 |
| 0.34 | 6.80 | do | 23.80 | 2.10 | - | 3.40 | 29.30 | 23.80 | 53.10 |
| 0.35 | 7.00 | 3.50 | 24.50 | 2.25 | - | 3.50 | 30.25 | 24.50 | 54.75 |
| 0.36 | 7.20 | do | 25.20 | 2.40 | - | 3.60 | 31.20 | 25.20 | 56.40 |
| 0.37 | 7.40 | do | 25.90 | 2.55 | - | 3.70 | 32.15 | 25.90 | 58.05 |
| 0.38 | 7.60 | do | 26.60 | 2.70 | - | 3.80 | 33.10 | 26.60 | 59.70 |
| 0.39 | 7.80 | do | 27.30 | 2.85 | - | 3.90 | 34.05 | 27.30 | 61.35 |
| 0.40 | 8.00 | 3.50 | 28.00 | 3.00 | - | 4.00 | 35.00 | 28.00 | 63.00 |
| 0.41 | 8.20 | do | 28.70 | 3.15 | - | 4.10 | 35.95 | 28.70 | 64.65 |
| 0.42 | 8.40 | do | 29.40 | 3.30 | - | 4.20 | 36.90 | 29.40 | 66.30 |
| 0.43 | 8.60 | do | 30.10 | 3.45 | - | 4.30 | 37.85 | 30.10 | 67.95 |
| 0.44 | 8.80 | do | 30.80 | 3.60 | - | 4.40 | 38.80 | 30.80 | 69.60 |
| 0.45 | 9.00 | 3.50 | 31.50 | 3.75 | - | 4.50 | 39.75 | 31.50 | 71.25 |
| 0.46 | 9.20 | do | 32.20 | 3.90 | - | 4.60 | 40.70 | 32.20 | 72.90 |
| 0.47 | 9.40 | do | 32.90 | 4.05 | - | 4.70 | 41.65 | 32.90 | 74.55 |
| 0.48 | 9.60 | do | 33.60 | 4.20 | - | 4.80 | 42.60 | 33.60 | 76.20 |
| 0.49 | 9.80 | do | 34.30 | 4.35 | - | 4.90 | 43.55 | 34.30 | 77.85 |
| 0.50 | 10.00 | 3.50 | 35.00 | 4.50 | - | 5.00 | 44.50 | 35.00 | 79.50 |
| 0.60 | 12.00 | do | 42.00 | 6.00 | 0.50 | 6.00 | 54.50 | 42.00 | 96.50 |
| 0.70 | 14.00 | do | 49.00 | 7.50 | 1.00 | 7.00 | 64.50 | 49.00 | 113.50 |
| 0.80 | 16.00 | do | 56.00 | 9.00 | 1.50 | 8.00 | 74.50 | 56.00 | 130.50 |
| 0.90 | 18.00 | do | 63.00 | 10.50 | 2.00 | 9.00 | 84.50 | 63.00 | 147.50 |
| 1.00 | 20.00 | 3.50 | 70.00 | 12.00 | 2.50 | 10.00 | 94.50 | 70.00 | 164.50 |
| 2.00 | 40.00 | do | 140.00 | 27.00 | 7.50 | 20.00 | 194.50 | 140.00 | 334.50 |
| 3.00 | 60.00 | do | 210.00 | 42.00 | 12.50 | 30.00 | 294.50 | 210.00 | 504.50 |
| 4.00 | 80.00 | do | 280.00 | 57.00 | 17.50 | 40.00 | 394.50 | 280.00 | 674.50 |
| 5.00 | 100.00 | do | 350.00 | 72.00 | 22.50 | 50.00 | 494.50 | 350.00 | 844.50 |
| 6.00 | 120.00 | 3.50 | 420.00 | 87.00 | 27.50 | 60.00 | 594.50 | 420.00 | 1,014.50 |
| 7.00 | 140.00 | do | 490.00 | 102.00 | 32.50 | 70.00 | 694.50 | 490.00 | 1,184.50 |
| 8.00 | 160.00 | do | 560.00 | 117.00 | 37.50 | 80.00 | 794.50 | 560.00 | 1,354.50 |
| 9.00 | 180.00 | do | 630.00 | 132.00 | 42.50 | 90.00 | 894.50 | 630.00 | 1,524.50 |
| 10.00 | 200.00 | do | 700.00 | 147.00 | 47.50 | 100.00 | 994.50 | 700.00 | 1,694.50 |

Form No. O-4 8-54 25M

# COLORADO PLATEAU URANIUM ORE PROJECT

American Smelting and Refining Company, Ore Purchasing Agent For
United States Atomic Energy Commission

Receiving Station Off Plateau Vitro Process — Grand Junction, Colorado August 13, 1954
Liquidation No. 5908 — Lot No. Op #29 — Shippers Lot No.
Bought of Henry B. Mann — A.E.C. License No. P-T
Address 301 Tyler Street, Taft, California
Type of Ore Uranium Bearing Ores — Contract No. 257-F — Date Received 8/5/54
Mining Claim Buckeye Group — Mining District Unorganized — Pile No. OP-VP
County : Kern State: California

| Lot No. | Wet Weight Pounds | $H_2O$ | Dry Weight Pounds | SETTLEMENT ASSAYS $U_3O_8$ | $V_2O_5$ | $CaCO_3$ | CONTENTS POUNDS $U_3O_8$ | $V_2O_5$ | $CaCO_3$ |
|---|---|---|---|---|---|---|---|---|---|
| OP#29 | 97320 | 6.15 | 91335 | .62 | | .5 | 566.28 | | ~~456.68~~ |

Car No SP 152684

| U308 | Per Lb. | Per Ton | Short Tons | Total Value |
|---|---|---|---|---|
| .62% = 12.4# at | 3.50 | 43.80 | 45.6675 | $1,981.96 |
| Development allowance 12.4# at | .50 | 6.20 | " | 283.14 |
| Premium in excess of 4# per ton 12.4 # - 4# = 8.4# at | .75 | 6.30 | " | 287.71 |
| Premium in excess of 10# per ton 12.4# - 10# = 2.4# at | .25 | .60 | " | 27.40 |
| TOTAL U308 PAYMENT | | 56.50 | 45.6675 | $2,580.21 |
| Haulage allowance 37 miles @ 6¢ per wet ton mile | | | 48.6600 | 108.03 |
| TOTAL GROSS PRICE | | | | $2,688.24 |
| Deductions | | | | - - - - |
| NET PROCEEDS | | | | $2,688.24 |

Correct CFK — Paid August 13, 1954
Checked DPR — Vo. No. 8/86
Approved HCJ — Check No. 12978

sp

I certify that I am the lawful owner or authorized Representative of the Lawful Owner, of the Ore described in this Settlement Sheet and have legal right to deliver the same to the Commission

I certify that I hold the A. E. C. Source Material License numbered above.

I hereby transfer to the Commission, effective as of the date of delivery of the ore, all my right, title and interest in and to said ore.

I will accept the amount as shown above as "Total Gross Price" in full settlement, except for final quarterly adjustment for average $V_2O_5$—$U_3O_8$ ratio, for sums due to me on account of the ore deliveries described herein.

Henry B. Mann
Seller or Agent

Buyers assays govern if Seller fails to submit his assays prior to acceptance of payment.
All rates paid are based on U. S. Atomic Energy Commission Published Schedules.

Photostatic copy of statement showing tonnage, settlement assay, and net proceeds to seller on first part of shipment of commercial uranium ore from California. Published by permission of seller.

RECEIVED
SEP 13 1955

Surname copy

700

Murphy
Ellis

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

MAR 13 1956

Mr. Samuel W. Gardiner
Scouler, Cook, Scouler & Gardiner
Albert Building
San Rafael, California

Re: Docket No. DMEA-3980 (Uranium)
Little Sparkler Claims
Kern County, California

Dear Mr. Gardiner:

This is to acknowledge your letter of March 3, 1956, in response to our letter of February 27, 1956.

We note that you will require some time to quiet title on the captioned claims and to submit the other additional information requested in our letter of September 26, 1955; and also that you concur in our suggestion that the subject application be withdrawn and a new application be submitted later. Therefore, we are considering the above-docketed application withdrawn and the docket closed.

If a new application is submitted, you may refer to exhibits in the subject application, such as the Engineering Report on the Little Sparkler Mining Claims, by L. F. Ivanhoe, the photostats of the recording data pertaining to the claims, etc.

Enclosed are five copies (one extra) of application Form MF-103 for your use in the event you wish to submit a new application.

Sincerely yours,

C. O. Mittendorf

Administrator

Enclosures

FMMurphy/gla
3-12-56
cc to: Admr.'s Reading File
Docket
Messrs. JECrawford, Rm. 3641
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA
Code 700, Mr. Murphy
DMEA Field Team, Region II (2)

R.C.S.

1605 Evans Ave.
Reno, Nevada

March 8, 1957

Mr. Robert J. Meehan, Acting Manager
Salt Lake Area Office
U. S. Atomic Energy Commission
P. O. Box 2196
Salt Lake City, Utah

MAR 11 1957
DMEA

Re: SLAO: RJM:mkc

Dear Mr. Meehan:

Thank you for the data on the Little Sparkler uranium prospect. It was of great help in supplying our Washington office with requested pertinent information.

Yours very truly,

S. Ricker
Executive Officer
DMEA Field Team, Region II

Encls.

SRicker: ft.
cc: Opr. Com., DMEA, Wash., D.C.
RMSmith
File

3/8/56 [illegible]

LAW OFFICES
GARDINER, RIEDE & ELLIOTT
ALBERT BUILDING
SAN RAFAEL, CALIFORNIA

SAMUEL W. GARDINER
HAROLD F. RIEDE
ROBERT W. ELLIOTT

TELEPHONE
GLENWOOD 4-5656

March 3, 1956.

RECEIVED
MAR - 9 1956

Ernest William Ellis, Chief,
Rare and Miscellaneous Metals Division,
Department of the Interior,
Washington, 25, D. C.

RE: DOCKET NO. DMEA-3980 (Uranium)
Little Sparkler Claims,
Kern County, California.

Dear Sir:

This will acknowledge receipt of your letter of February 27, 1956, and I note your suggestion that unless additional information is provided within 30 days, you will regard the docket as closed.

We have held up presenting the supplementary information for two reasons: First, we are still proceeding with our geological study of the area and it has not been completed to the point where we are even now ready to present the final plans. Second, our title has been subject to a little question in view of the fact that one Russell T. Miller and others filed conflicting mining claims on a part of our land on June 3, 1955, when the power withdrawal was cancelled. We have therefore had a quiet title suit pending in the California Superior Court in Kern County, and have been awaiting for disposition of that case. The case was brought to trial on February 27 and was tried on that and the next succeeding three days. We anticipate a judgment shortly. The Judge has not announced his decision, but the facts are so clearly our way that we do not anticipate any difficulty.

Under the circumstances it is obvious that we will require more than 30 days within which to present title and geological data. We therefore concur in the suggestion that the docket be closed and that our application be dropped. However, may we have it with the definite understanding that we are not abandoning the application but are merely postponing

GARDINER, RIEDE & ELLIOTT



submission of final data? It will perhaps be best if we present a new application at the right time and ask at that time that the whole matter be reopened. Your advice on procedure will be appreciated.

Very truly yours,

SAMUEL W. GARDINER.

SWG:CPR

cc: Mr. Lloyd Scouler,
Box 163,
Rio Vista, California.

Surname copy

700

Murphy
Ellis
Matthews

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

FEB 27 1956

Scouler, Cook, Scouler & Gardiner
c/o S. W. Gardiner
Gardiner, Riede & Elliott
Albert Building
San Rafael, California

Re: Docket No. DMEA-3980 (Uranium)
Little Sparkler Claims
Kern County, California

Gentlemen:

Reference is made to your letter of December 13, 1955, and our reply of December 21 advising that we would withhold action on the above-docketed application for sixty days, as you suggested, to permit you to supply us with the further information which we requested.

Inasmuch as we have received no reply, we assume that you no longer desire to proceed with the application. We wish to cooperate with you in the matter of allowing ample time, but if the needed data have not been received within thirty days from the date of this letter, we will then consider the docket closed.

Sincerely yours,

SIGNED

Ernest Wm. Ellis, Chief
Rare and Miscellaneous
Metals Division

FMMurphy/gla
2/24/56
cc to: Admr.'s Reading File
Docket
Messrs. JECrawford, Rm. 3641
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA
Code 700, Mr. Murphy
DMEA Field Team, Region II (2)

R.G.H.

Surname copy

700

Murphy
Ellis
Mittendorf

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

DEC 21 1955

Scouler, Cook, Scouler &
Gardiner, a partnership
c/o S. W. Gardiner
Albert Building
San Rafael, California

Re: Docket No. DMEA-3980 (Uranium)
Little Sparkler Claims
Kern County, California

Gentlemen:

This is to acknowledge your letter of December 13, 1955, in which you request that we hold the above-docketed application open for sixty days or so pending litigation in regard to the Little Sparkler claims.

As you state that the additional information requested by this office will be submitted as soon as you have clear title to the subject claims, we will withhold action for the period you mention.

Sincerely yours,

SIGNED

Ernest Wm. Ellis, Chief
Rare and Miscellaneous
Metals Division

FHMurphy/gla
12-20-55
cc to: Admr.'s Reading File
Docket
Messrs. JECrawford, Rm. 3641
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA
Code 700
Mr. Murphy
DMEA Field Team, Region II (2)

R.C.

SAMUEL W. GARDINER
HAROLD F. RIEDE
ROBERT W. ELLIOTT

LAW OFFICES
GARDINER, RIEDE & ELLIOTT
ALBERT BUILDING
SAN RAFAEL, CALIFORNIA

TELEPHONE
GLENWOOD 4-5656

RECEIVED
DEC 15 1955

December 13, 1955.

Ernest W. Ellis, Chief,
Rare & Miscellaneous Metals Division,
Department of the Interior,
Washington, 25, D. C.

RE: DOCKET NO. DMEA-3980 (URANIUM)
Little Sparkler Claims,
Kern County, California.

Dear Sir:

This will acknowledge receipt of your letter of September 26, 1955 and likewise your follow-up letter of December 8, 1955. I would like to apologize for not having answered your earlier letter, but assure you that the delay has not been occasioned by any withdrawal or abandonment of the application.

We have assumed that in order to complete processing this application it will be necessary for us to show a reasonably clear title. Unhappily we have run into the same thing which is generally encountered -- that is the attempt of others to jump the claims. As a result of this we have litigation pending to quiet our title, and we anticipate having the case tried on December 27 and 28, 1955. We have therefore held up the presentation of further information until that case is disposed of, at least in the trial court. Regardless of the possibility of an appeal, we anticipate reporting to you further when there has been a trial court decision since we assume that these nuisance claim-jumping activities are so common that they cannot be considered a serious cloud on title, if and when a trial court judgment has been obtained.

Under the circumstances may I request that you hold this matter in abeyance for sixty days or so until the pending litigation has been at least partially disposed of? We will report to you further in the interim.

Sincerely,

SAMUEL W. GARDINER.

SWG:CPR
cc: Mr. Lloyd Scouler,
Box 163,
Rio Vista, California.

Surname copy

Murphy
Ellis
McKeehan

700

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

DEC - 8 1955

Scouler, Cook, Scouler &
Gardiner, a partnership
c/o S. W. Gardiner
Albert Building
San Rafael, California

Re: Docket No. DMEA-3980 (Uranium)
Little Sparkler Claims
Kern County, California

Gentlemen:

Reference is made to our letter of September 26, 1955, which outlined certain information we require to further process your above-docketed application.

Inasmuch as we have received no reply, we assume that you no longer desire to proceed with the application. We wish to cooperate with you in the matter of allowing ample time for the submission of the information requested, but if the needed data have not been received within thirty days from the date of this letter, we will then consider the docket closed.

Sincerely yours,

SIGNED

Ernest Wm. Ellis, Chief
Rare and Miscellaneous
Metals Division

FMMurphy/gla
12-7-55
cc to: Admr.'s Reading File
Docket
Messrs. JECrawford, Rm. 3641
THKiilsgaard, Rm. 3210, GSA
JCHosted, Rm. 3210, GSA
Code 700
Mr. Murphy
DMEA Field Team, Region II (2)

A.C.S.

Surname 700
Murphy
Ellis
Mikulay

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

Scoular, Cook, Scoular &
Gardiner, a partnership
c/o S. W. Gardiner
Albert Building
San Rafael, California

SEP 26 1955

Re: Docket No. DMEA-3980 (Uranium)
Little Sparkler Claims
Kern County, California

Gentlemen:

The above-docketed application for aid in an exploration project has been reviewed by the Rare and Miscellaneous Metals Division.

In order to further process the subject application we require the following:

1) Evidence that you have sufficient interest in the property for the purposes of an exploration contract.

2) A map of the claims showing:

a) Location of the proposed work, i.e., diamond drill holes, drifts, and long-holes.

b) Locations where samples were procured and assay results; also, show location of the radiometric anomalies mentioned under 4 (a) of your application.

Will you kindly advise this office when we may expect to receive the above-requested additional information.

Sincerely yours,

SIGNED

Ernest Wm. Ellis, Chief
Rare and Miscellaneous
Metals Division

EMMurphy:am
9-23-55
cc to: Admr. Reading File
Docket
Messrs. J.E.Crawford,Rm.3641
T.H.Kiilsgaard,Rm.5222
J.O.Hosted,Rm.3210,GSA
Code 700
Mr. Murphy
DMEA Field Team, Region II(2)

RCh.

9/22/55 gla

IN REPLY REFER TO

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

September 21, 1955

Memorandum

To: E. W. Ellis, Defense Minerals Exploration Administration

From: W. P. Williams, U. S. Geological Survey

Subject: Review of Application, DMEA 3980, Scouler, Cook, Scouler & Gardiner, Partners, Little Sparkler Claims, Kern County, California.

The above-referenced application is made on four mining claims located in Kern Canyon, California. The locale is the site of considerable feverish prospecting; and uranium mineralization has been discovered in Kern Canyon. Forty-six tons of ore were shipped from the Miracle mine a few hundred feet east of the subject property in 1954.

At the Miracle mine uranium ore is found in a vertical, northwest-trending shear in granodiorite. Projection of the shear on available maps indicates the shear zone will miss the Little Sparkler claims. None of the uranium occurrences in Kern Canyon have yet proved to be of large significance.

The application describes, in vague and general terms, an exploration project that includes geologic mapping, road building, wagon and core drilling, and drifting. The proposed work is not set up as a definite proposal and the maps do not show where any of the work is to be done.

Neither the meager evidence of mineralization on the property, nor the poor production record of the district to date ("uranium rush" newspaper items to the contrary) justify an extravagant exploration project on the property.

The claims' ownership appears to be in contest; and the applicant has not demonstrated that he has succeeded in quieting title to the mining claims. A legal decision appears desirable in the matter.

Should the question of ownership be settled I recommend that the application be referred to the Field Team for field examination. If field study of the geologic structure and mineralization shows that a DMEA contract is desirable the examining team should discuss with the applicant a reasonable exploration program.

W. P. Williams

W. P. Williams

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

September 21, 1955

Memorandum

To: E. W. Ellis, Defense Minerals Exploration Administration

From: W. P. Williams, U. S. Geological Survey

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W. P. Williams

WPWilliams:iml
G-9/21/55

cc: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
J. E. Crawford, 3641
J. O. Hosted, 3210

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

September 21, 1955

Memorandum

To: E. W. Ellis, Defense Minerals Exploration Administration

From: W. P. Williams, U. S. Geological Survey

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At the Miracle mine uranium ore is found in a vertical, northeast-trending shear in granodiorite. Projection of the shear on available maps indicates the shear zone will miss the Little Sparkler claims. None of the uranium occurrences in Kern Canyon have yet proved to be of large significance.

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WPWilliams:iml
G-9/21/55

cc: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
J. E. Crawford, 3641
J. O. Hosted, 3210

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

September 21, 1955

Memorandum

To: E. W. Ellis, Defense Minerals Exploration Administration

From: W. P. Williams, U. S. Geological Survey

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G-9/21/55

cc: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
J. E. Crawford, 3641
J. O. Hosted, 3210

9/21/55 gla

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
WASHINGTON 25, D. C.

September 20, 1955

Memorandum

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee, Room 4445

From: John E. Crawford, Bureau of Mines Member
Uranium Commodity Committee

Subject: Application for assistance, DMEA 3980, Scouler, Cook, Scouler & Gardiner, Little Sparkler Claims, Kern County, California

I have reviewed the attached application, Scouler, Cook, Scouler & Gardiner, DMEA Docket 3980; and I have discussed it with Joseph O. Hosted, Washington representative of the Atomic Energy Commission.

A study of the information contained in the application indicates that the legality of the claims is in question. Until Scouler, Cook, Scouler & Gardiner are in a position to show that encroaching claims are invalid, it must be impossible for the DMEA to act on this application.

As submitted, the application represents a prospecting venture. More information of a geological nature is needed as well as a description of the mineralized area on the Little Sparkler Claims. Results of the radiometric surveys which the applicants indicate have been made over areas of special interest should also have been supplied by the applicants. Results of chemical analyses of sample material taken from favorable areas on the claims would also be of interest.

It was indicated in the application that report and detailed maps are being prepared and will be forwarded under separate cover. If the above required information is included in the maps and report, the application could be processed from a geologic and engineering standpoint. It is necessary, however, that the legal status of the claims be settled prior to any action on the application itself.

John E Crawford
John E. Crawford

Attachment

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
WASHINGTON 25, D. C.

RECEIVED
SEP 21 1955

September 20, 1955

Memorandum

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee, Room 4445

From: John E. Crawford, Bureau of Mines Member
Uranium Commodity Committee

Subject: Application for assistance, DMEA 3980, Scouler, Cook, Scouler & Gardiner, Little Sparkler Claims, Kern County, California

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John E. Crawford

Attachment

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
WASHINGTON 25, D. C.

September 20, 1955

Memorandum

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee, Room 4445

From: John E. Crawford, Bureau of Mines Member
Uranium Commodity Committee

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John E. Crawford

Attachment

September 19, 1955

Memorandum

To: Executive Officer, DMEA Field Team, Region II

From: Chief, Operation's Control and Statistics Division

Subject: Assignment of Docket Number

There is listed below the assigned docket number to an application recently received from Region II.

DMEA - 3980 Scouler, Cook, Scouler & Gardiner

Robert E. Adams
Chief, Operation's Control
and Statistics Division

Scouler, Cook, Scouler & Gardiner
c/o S. W. Gardiner
Albert Building
San Rafael, California

September 19, 1955
Subject: DMEA-3980
Re: Exploration Assistance
Little Sparkler Claims

Gentlemen:

The receipt of your application dated September 8, 1955, for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-3980 and referred to the Rare & Misc. Metals Division.

Kindly identify all future correspondence relating to your application by this docket number.

Sincerely yours,

Robert E. Adams, Chief
Operations Control and
Statistics Division

60932

D M Ea

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

1605 Evans Avenue
Reno, Nevada

September 14, 1955

Memorandum

To: Operating Committee, DMEA, Interior Building
Washington 25, D.C.

From: Executive Officer, DMEA Field Team, Region II

Subject: Loan Application (Uranium)
Scouler, Cook, Scouler & Gardiner
Little Sparkler Claims
Kern County, California

Attached are three sets of MF-103, Application for Aid forms relative to above subject. The fourth set has been retained in our files.

S. Ricker

Attach.

BUREAU OF MINES
WASHINGTON, D. C.

SEP 16 8 23 AM '55

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

RECEIVED
SEP 16 1955

1605 Evans Avenue
Reno, Nevada

September 14, 1955

Memorandum

To: Operating Committee, DMEA, Interior Building
Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region II

Subject: Loan Application (Uranium)
Scouler, Cook, Scouler & Gardiner
Little Sparkler Claims
Kern County, California

Attached are three sets of MF-103, Application for Aid forms relative to above subject. The fourth set has been retained in our files.

S. Ricker

Attach.

SRicker:gh
cc: H. C. Miller
R. M. Smith
File

ORIGINAL

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Form Approved.
Budget Bureau No. 42-R1035.2.

RECEIVED
SEP 13 1955

# APPLICATION FOR AID IN AN EXPLORATION PROJECT, PURSUANT TO DMEA ORDER 1, UNDER THE DEFENSE PRODUCTION ACT OF 1950, AS AMENDED

*Not to be filled in by applicant*

Docket No. DMEA-3980
Metal or Mineral Uranium
Date Received ~~9/12/55~~ 9/16/55
Estimated Cost $ 78,247.00
Participation (Government %)

## INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: Scouler, Cook, Scouler & Gardiner, a partnership
c/o S. W. Gardiner
Albert Building
San Rafael, California

(*b*) If other than an individual, add to your name above whether a corporation, partnership, etc., and the name of the State in which incorporated or otherwise organized.

(*c*) If a corporation, add to above statement, titles, names and addresses of officers.

(*d*) If a partnership, add to the above statement the names and addresses of all partners. See Schedule No. 1

2. *General.*—Read DMEA Order 1, "Government Aid in Defense Exploration Projects," before completing this application. Submit this application and all accompanying papers in quadruplicate (four copies), with your name and address on each sheet of the application and on all accompanying papers. Where sufficient space is not provided on the form for all required information, state it on an accompanying paper, with a reference in each case to the instruction to which it refers by number. Comply with all applicable instructions; or, if not applicable, so state. File the application with Defense Minerals Exploration Administration, Department of the Interior, Washington 25, D. C., or with the nearest field executive officer thereof.

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract Refer to Schedule No. 1-A, being a copy of survey documents made by a licensed land surveyor and U.S. mineral surveyor doing business under the firm name of California Surveying Service.
(Land lies in County of Kern, State of California)

(*b*) State any mine name by which the property is known. "Little Sparkler Claims"

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise Located claims on public domain, open for mineral entry

(*d*) If you are not the owner, submit with this application a copy of the lease, contract, or other document under which you control the property. Not applicable

(*e*) If you own the land, describe any liens or encumbrances on it See Schedule No. 1

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice. See Schedule No. 2

4. *Physical description.*—(*a*) Describe in detail any mining or exploration operations which have been or now are being conducted upon the land, including existing mine workings and production facilities. State your interest, if any, in such operations. Also describe accessibility of mine workings for examination purposes. See Schedule No. 2

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades. See Schedule No. 3

(*c*) Describe the geologic features of the property, including mineralization, type of deposit (vein, bedded, etc.), and your reasons for wishing to explore. Illustrate with maps or sketches. Send with your application (but not necessarily as a part of it) any geologic or engineering report, assay maps, or other technologic information you may have, indicating on each whether you require its return to you. See Schedule No. 3

(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points. See Schedule No. 3

(*e*) State the availability of manpower, materials, supplies, equipment, water, and power.

See Schedule No. 3

16—66551-1

5. *The exploration project.*—(*a*) State the mineral or minerals for which you want to explore Uranium

(*b*) Describe fully the proposed work, including a map or sketch of the property showing a plan (and cross sections if needed) of any present mine workings, and the location of the proposed exploration work as related to such features as contacts, veins, ore-bearing beds, etc. See Schedule No. 4

(*c*) The work will start within 30 days and be completed within 7 months from the date of an exploration project contract.

(*d*) State the operating experience and background of the applicant with relation to the ability to carry out such exploration project, and also that of the person or persons who will supervise the operations. See Schedule No. 4

6. *Estimate of costs.*—Furnish a detailed estimate of the costs of the proposed work (you will have to use a separate sheet), under the following headings. Add the totals under all headings to give the estimated total cost of the project. Sched. No. 5

(*a*) *Independent contracts.*—(Note.—If the applicant does not intend to let any of the work to contractors, write "none" after this item. To the extent that the work is to be contracted, do not repeat the cost of the contract-work in subsequent items.) State the cost of any proposed independent contracts for the performance of all or any part of the work, expressed in terms of units of work (such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, per cubic yard of material moved, etc.).

(*b*) *Labor, supervision, consultants.*—Include an itemized schedule of numbers, classes and rates of wages, salaries or fees for necessary labor, supervision and engineering and geological consultants.

(*c*) *Operating materials and supplies.*—Furnish an itemized list, including items of equipment costing less than $50 each, and power, water and fuel.

(*d*) *Operating equipment.*—Furnish an itemized list of any operating equipment to be rented, purchased, or which is owned and will be furnished by the Operator, with the estimated rental, purchase price, or suggested use-allowance based on present value, as the case may be.

(*e*) *Rehabilitation and repairs.*—Furnish a detailed list showing the cost of any necessary initial rehabilitation or repairs of existing buildings, installations, fixtures, and movable operating equipment, now owned by the Operator and which will be devoted to the exploration project.

(*f*) *New buildings, improvements, installations.*—Furnish a detailed list showing the cost of any necessary buildings, fixed improvements, or installations to be purchased, installed or constructed for the benefit of the exploration project.

(*g*) *Miscellaneous.*—Furnish a detailed list showing the cost of repairs to and maintenance of operating equipment (not including initial rehabilitation or repairs of the Operator's equipment), analytical work, accounting, workmen's compensation and employers' liability insurance, and payroll taxes.

(*h*) *Contingencies.*—Give an estimate of any necessary allowances for contingencies not included in the costs stated above.

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*) Are you prepared to furnish your share of the cost of the proposed project in accordance with the regulations on Government participation (Sec. 7, DMEA No. 1)?

(*b*) How do you propose to furnish your share of the costs?

[X] Money [ ] Use of equipment owned by you [ ] Other

Explain in detail on acompanying paper.

## 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.

Dated September 9, 1956

Scoular, Cook, Scoular & Gardiner, a partnership
(Applicant)

By Samuel W. Gardiner
Samuel W. Gardiner, Partner

**Title 18, U. S. Code (Crimes), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.**

U. S. GOVERNMENT PRINTING OFFICE 16—66551-1

Scouler, Cook, Scouler & Gardiner
c/o S. W. Gardiner
Albert Building
San Rafael, California

SCHEDULE NO. 1

RECEIVED
SEP 16 1955

APPLICATION FOR AID IN AN EXPLORATION PROJECT, PURSUANT TO DMEA ORDER 1 - - - - (Form: MF-103)

Item

1. (d) If a partnership - -

Names and addresses of all partners:
Allen B. Scouler, 3808 Apache Ave., Bakersfield, California
Rufus E. Cook, 3210 Dartmouth St., Bakersfield, California
Lloyd Scouler, P. O. Box 163, Rio Vista, California
Samuel W. Gardiner, Albert Building, San Rafael, California

3. (a) State legal description of land - -

Refer Schedule No. 1-A

3. (e) - - -, describe any liens or encumbrances

No known liens or encumbrances excepting only attempted partially encroaching claims by one "Russell T. Miller", and/or said Russell T. Miller acting as agent for "Delta Investors, Inc.", and/or said Russell T. Miller acting as agent for "Trans-Valley Developers, Inc." These attempted encroachments by the above-named person and corporations grew out of the circumstances surrounding the Restoration Order of the Bureau of Land Management, which Order was dated April 28, 1955 and can be found in the Federal Register, Volume 20, Number 88, dated Thursday, May 5, 1955, at Page 3042.

Inasmuch as the aforementioned encroaching claims were first dated May 27, June 2, and June 3, all in 1955, and for other good reasons, to quiet title and to seek other relief, this applicant sued the aforementioned person and corporations in the State court, and the said corporations who appear to be principals have defaulted and we entered their defaults on August 30, 1955. While this matter may not be said to be closed as of the date of this application, we appear to be in an excellent legal position, and anticipate early satisfaction and, consequently, submit this application at this time to expedite your consideration of the proposed exploration project.

Scouler, Cook, Scouler & Gardiner
c/o S. W. Gardiner
Albert Building
San Rafael, California

SCHEDULE NO. 2

APPLICATION FOR AID IN AN EXPLORATION PROJECT, PURSUANT TO DMEA ORDER 1 - - - - (Form: MF-103)

Item

3. (f) If the land consists of unpatented claims - -

| Claim Name | 1st Recordations * Dates of Location | Book No. | Page No. | 2nd Recordations * Dates of Location | Book No. | Page No. |
|---|---|---|---|---|---|---|
| Little Sparkler # 1 | 2/13/54 | 2202 | 305-6 | 6/3/55 | 2436 | 201 ** |
| Little Sparkler # 2 | 2/13/54 | 2202 | 307-8 | 6/3/55 | 2436 | 203 ** |
| Little Sparkler # 3 | 4/1/54 | 2212 | 358-9 | 6/3/55 | 2436 | 205 ** |
| Little Sparkler # 4 | 4/1/54 | 2212 | 360-1 | 6/3/55 | 2436 | 207 ** |

* Note: Recordations in County of Kern, State of California

** Note: Statement of the marking of boundaries and performance of discovery work on the "June 3, 1955" basis recorded on September 1, 1955 and recordation information is not yet available.

4. (a) Describe in detail any mining or exploration operations - -

On Little Sparkler No's. 1, 3 and 4, at least two (2) open cuts to a depth of ten (10) feet have been made on each claim.

On Little Sparkler No. 2, four (4) existing open cuts to a depth of ten (10) feet have been made, plus the construction of an access road (beginning on No. 1), plus the stripping of overburden to bedrock in an area of special interest and indicated mineralization - an open cut in excess of thirty (30) feet having been made by bulldozer.

On Little Sparkler No's. 1 and 2, radiometric surveys have been made over areas of special interest.

The applicant has performed all of the aforesaid work and no other work of a mining nature has been done on the proposed exploration project - excepting only the geologic mapping currently in process. ( Note: Current exploratory mining operations are being carried on, on property contiguous to this proposed project. The adits to the Miracle and Kergon uranium mines are respectively about 800' east and 1100' south of the borders of the Little Sparkler No's. 1-4 claims.)

Scouler, Cook, Scouler & Gardiner
c/o S. W. Gardiner
Albert Building
San Rafael, California

SCHEDULE NO. 3

APPLICATION FOR AID IN AN EXPLORATION PROJECT, PURSUANT TO DMEA ORDER 1 - - - - (Form: MF-103)

Item

4. (b) State past and current production - -

No past or current production. Ore reserves not known.

4. (c) Describe the geologic features - -

Detailed maps and report being prepared and will be forwarded under separate cover.

4. (d) State the facts with respect to the accessibility - -

The proposed exploration project is located 36 road miles northeast of Bakersfield (California) and 6 miles southwest of Bodfish. California State Sign Route Highway No. 178 crosses the Little Sparkler claims No's. 1 and 2 on the south bank of, and about 250 feet above, the Kern River. This is a paved all-weather road from Bakersfield.

A short access road has already been cut from Highway 178 to provide access to the area between the Kern River and the highway on the Little Sparkler claims No's. 1 and 2. An encroachment permit has been granted by the California Division of Highways to make available this access road for mining purposes, on a permanent basis. (Refer enclosed Engineering Report, appendix, for photostat of said permit)

The railroad at Bakersfield is approximately 35 miles, or a one hour drive from the proposed project.

Supply points -: Bakersfield 36 miles; Bodfish 6 miles.

Residence points -: Bodfish-Kernville Area 6 to 17 miles.

4. (e) State the availability of manpower, materials, - -

Refer to Engineering Report, enclosed herewith, and to Page No. 8.

Supplementing the said report, it can now be said that a considerable number of men with substantial mining experience reside in the Bodfish area. In addition, competent contract-job-miners are available in the Bodfish area.

Scouler, Cook, Scouler & Gardiner
c/o S. W. Gardiner
Albert Building
San Rafael, California

SCHEDULE NO. 4

APPLICATION FOR AID IN AN EXPLORATION PROJECT, PURSUANT TO DMEA ORDER 1 - - - - (Form: MF-103)

Item

5. (a) State the minerals - -

Uranium

5. (b) Describe fully the proposed work - -

Refer to Engineering Report enclosed herewith.

Balance of information being prepared and will be forwarded under separate cover.

5. (c) The work will start - -

(Refer to Application form)

5. (d) State the operating experience and background - -

Operating experience of applicant: None

Experience of within named partners is as follows:

Allen B. Scouler - Geologist (graduate of University of California at Berkeley). In excess seven years with Exploration Dept., Standard Oil Co., of Calif.

Samuel W. Gardiner-Attorney at Law

Lloyd Scouler -Business management - 15 years in heavy construction industry, incl., 2 years coal mining, all in an administrative capacity.

Field supervision of project -It is anticipated that the person who will supervise the project on the ground is the consulting engineer-geologist-geophysicist, L. F. Ivanhoe, whose preliminary "Engineering Report" on the project is enclosed herewith.

Other lessor supervisory personnel to be hired in the area, or imported from other California mining areas.

Scouler,Cook,Scouler & Gardiner
c/o S. W. Gardiner
Albert Building
San Rafael, California

SCHEDULE NO. 5

APPLICATION FOR AID IN AN EXPLORATION PROJECT, PURSUANT TO DMEA ORDER 1 - - - - (Form: MF-103)

Item

6. Estimate of Costs
Based on preliminary "Engineering Report" enclosed herewith. For further supporting detail, please refer to said Report and particularly to the appendix thereof.

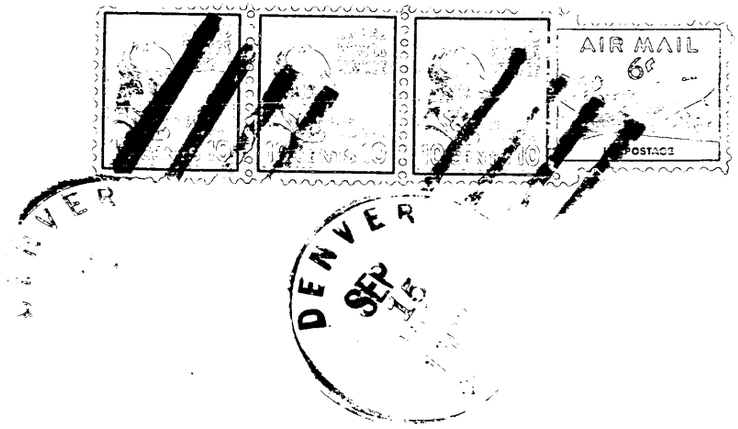
| | | |
|---|---|---|
| 6. (a) Independent contracts - - | | |
| Diamond Coring - 4500' @ $5.00 Ft | $22,500. | |
| Long Hole Percussion Drilling 1000' @ $1.00 Ft | 1,000. | |
| Drifting - 300' @ $35.00 Ft | 10,500. | |
| Construct Additional Access Roads 40 Hours @ $13.50 Hr | 540. | |
| Establish Water Supply & Set Up Facilities Lump Sum | 1,500. | $36,040. |
| (b) Labor, supervision, consultants - - | | |
| 2 Watchmen (88 Hrs Wk @ 2.10 per Hr Avg. or 184.80 Wk or 801.18 Mo @ 5 Mos. | 4,006. | |
| 1 Engineering-Geologist Consultant 5 Mos @ $1,000 Mo | 5,000. | |
| 1 Geologist - Assistant 1 Mo @ $350 | 350. | 9,356. |
| (c) Operating materials and supplies - - | | |
| Included in contract cost per ft of drift | | -0- |
| (d) Operating equipment - - | | |
| As listed on Pg. 18 of Engineering Report | 23,196. | |
| Less: Items costing less than $50 per unit | ( 961.) | 22,235. |
| (e) Rehabilitation and repairs - - | | -0- |
| (f) New buildings - - | | |
| 1 Powder Magazine | 500. | |
| 1 Watchmen's & Tool Shed | 450. | 950. |
| (g) Miscellaneous - - | | |
| Analytical | 500. | |
| Accounting (Direct only) 5 Mos @ $100 | 500. | |
| Workmen's Compensation - $9,356 @ 9.9% | 926. | |
| Employer's Liability 9,356 @ 2.0 | 187. | |
| Payroll Taxes 9,356 @ 4.7 | 440. | 2,553. |
| (h) Contingencies - ($71,134 @ 10%) | | 7,113. |
| TOTAL ESTIMATE OF DIRECT COSTS | | 78,247. |

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

OFFICIAL BUSINESS

224 New Customhouse
Denver 2, Colorado

PENALTY FOR PRIVATE USE TO AVOID
PAYMENT OF POSTAGE $300
(PMGC)




ATTENTION: MR. ERNEST W. ELLIS

Chairman of the Operating Committee
Defense Minerals Exploration Administration
U. S. Department of the Interior
Interior Building
Washington 25, D. C.

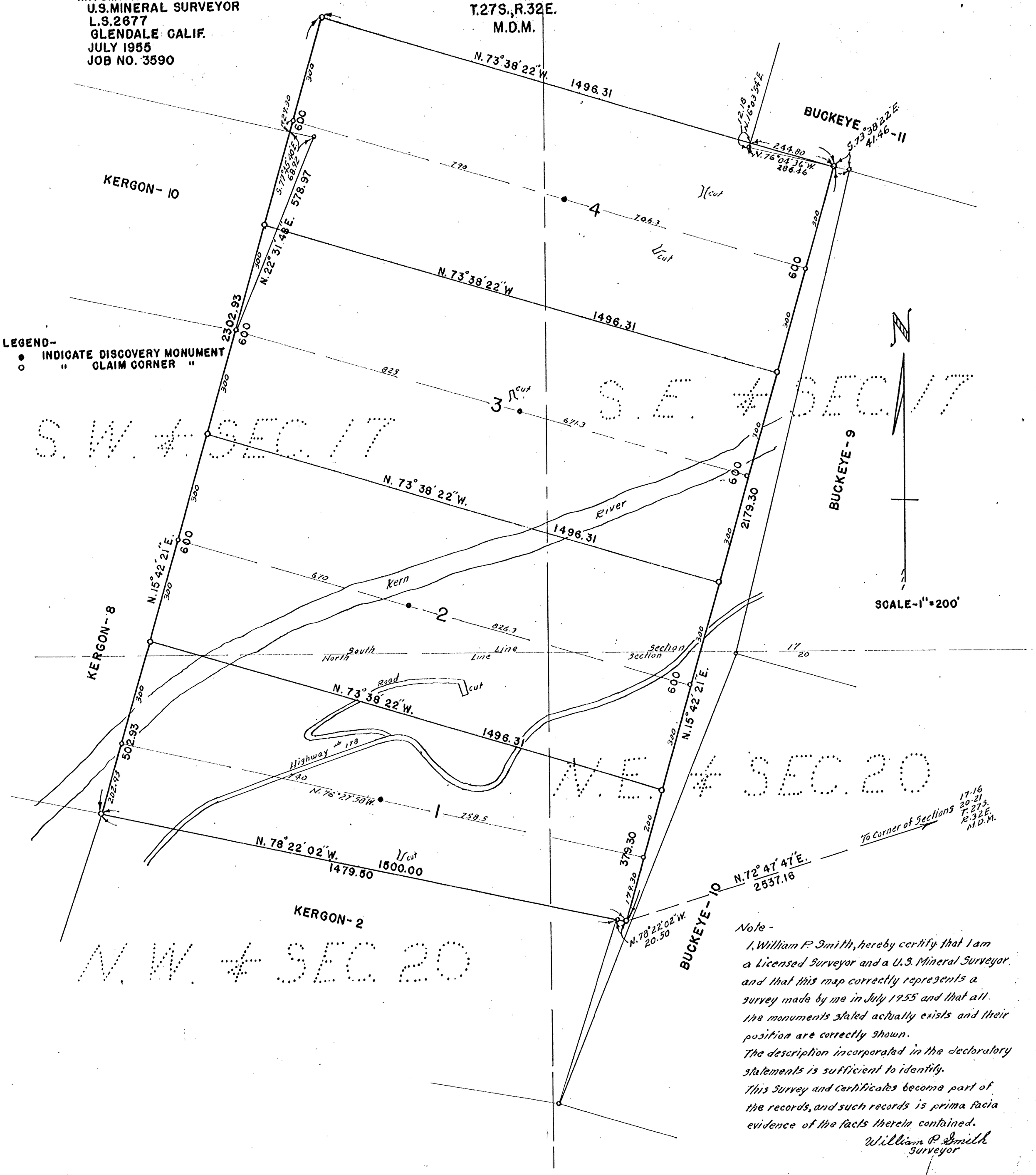
Scouler Cook, Scouler & Gardiner
Albert Bldg.
San Rafael, Calif.

Schedule 1-A

# MAP SHOWING SURVEY OF THE LITTLE SPARKLER MINING CLAIMS

SITUATED IN SECTIONS 17, 20,
T.27S., R.32E.
M.D.M.

SURVEYED BY-
W.P. SMITH
U.S. MINERAL SURVEYOR
L.S. 2677
GLENDALE CALIF.
JULY 1955
JOB NO. 3590



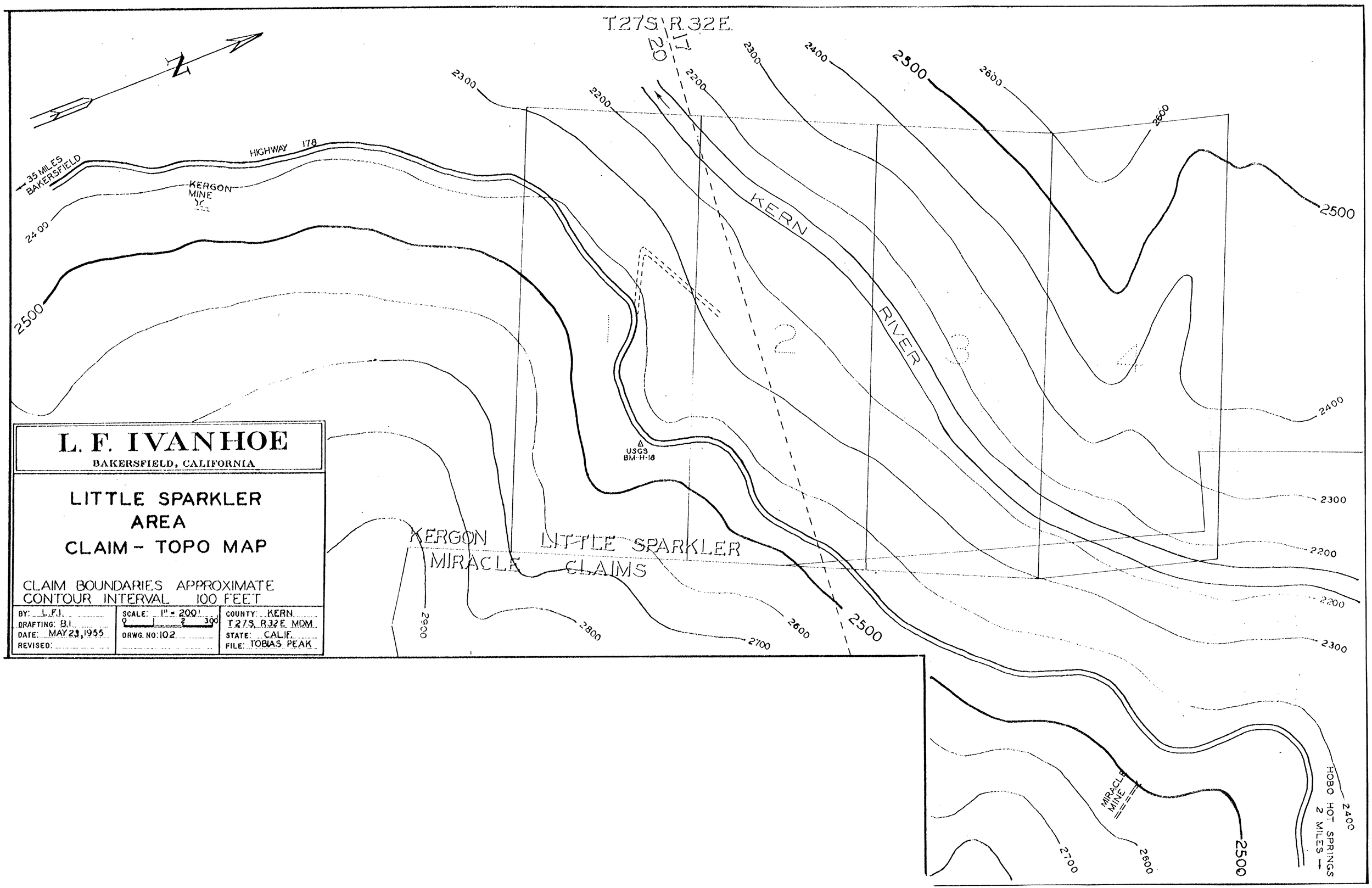

Note -

I, William P. Smith, hereby certify that I am a Licensed Surveyor and a U.S. Mineral Surveyor and that this map correctly represents a survey made by me in July 1955 and that all the monuments stated actually exists and their position are correctly shown.

The description incorporated in the declaratory statements is sufficient to identify.

This Survey and Certificates become part of the records, and such records is prima facia evidence of the facts therein contained.

William P. Smith
Surveyor


T.27S. R.32E.
N
35 MILES BAKERSFIELD
HIGHWAY 178
KERGON MINE
2400
2500
2300
2200
2600
2700
2800
2900
KERN RIVER
1
2
3
4
USGS BM-H-18
KERGON MIRACLE
LITTLE SPARKLER CLAIMS
MIRACLE MINE
HOBO HOT SPRINGS 2 MILES
L. F. IVANHOE
BAKERSFIELD, CALIFORNIA
LITTLE SPARKLER AREA CLAIM - TOPO MAP
CLAIM BOUNDARIES APPROXIMATE
CONTOUR INTERVAL 100 FEET
BY: L.F.I.
DRAFTING: B.I.
DATE: MAY 23, 1955
REVISED:
SCALE: 1" = 200'
0 1 2 300
DRWG. NO: 102
COUNTY: KERN
T.27S. R.32E. MDM.
STATE: CALIF.
FILE: TOBIAS PEAK