DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. 4382

DO NOT DETACH THIS SLIP

Action on this document is recorded and controlled in Reports and Records Branch. Any movement of this document between divisions or offices of DMA or movement outside DMA must be reported to the Reports and Records Branch. Actions taken that affect status of the case must also be reported.

This document has been recorded as

Exploration Project

Any action taken to change the type of request for assistance must be promptly reported to the Reports and Records Branch. Use DMA Form 2 for submitting these reports.

Routing Slip Cy to Kiilsgaard

To:	700	Date	7/16/56
To:	Mr. Mittendorf	Date	7-18-56
To:	~~Mr. Crawford~~	Date	7-27-56
To:	Mr. Johnson	Date	8-31-56
To:	Mr. Johnson	Date	11-9-56
To:	M & T	Date	11-9-56
To:	Operating Com.	Date	11-19-56
To:	F.E. Johnson	Date	11-21-56
To:	Com.	Date	11-23-56
To:	M & T	Date	11-23-56
To:	Mr. Mittendorf	Date	11-30-56
To:	Oper. Com	Date	12-19-56
To:	Admin	Date	12-19-56
To:	M & T	Date	12-19-56
To:		Date	

DO NOT DETACH

CONTROLLED DOCUMENT

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

RECEIVED
DMEA
Date Rec'd. JUL 13 1956

denied 12/20/56

JUL 12 1956
BUREAU OF MINES
Denver, Colo.

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. 4382
Metal or Mineral Uranium
Date Received 7-16-56
Estimated Cost Not given
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: Hagy Uranium Development Company, a Utah Corp., 505 E. 5000 So., Salt Lake City, Utah. Clyde J. Hagy, Pres. & Dir., S.E. Nelson, V. Pres. & Dir., Olive B. Hagy, Sec. Treas., L. L. Stan, Dir., Reed A. Ashworth, Dir., Kenneth McCullin, Dir., (all of Salt Lake City) G. Ch. S. Old, Santa Fe, N. M., Dir., Carl I. Mount, Montpelier, Vt., Dir.

(*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.

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 Stanley claims in Recapture Rock, Montezuma Mining District, San Juan County, Utah, known as Rocky Stanley, Jo trail, El Amora, Monticello, White Bird, Red Rock, Wild Horse, Betty, Portwell #1,2,3,4,5,7,8,9,10,11 and 12, Stanley #8 & 9, page 220-23 Cont. Book 219, page 307 thru 377 incl., Radio claims Book 339, page 219.

(*b*) State any mine name by which the property is known. Monticello Group

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise owner

(*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.

(*e*) If you own the land, describe any liens or encumbrances on it None

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice.

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. attached

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades. attached

(*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. attached

(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points. attached

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

16—66551-1

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.

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

(*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.

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:

(*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 ~~or~~ and [X] 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 July 10, 1956

Knapp Uranium Dev. Co
(Applicant)

By Clyde Knapp
Pres

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

RECEIVED
JUL 16 1956

4. Physical description: To date no mining has been done on this property, however some road building and drilling has been done and the claims are readily accessible for exploration, further exploration and mining.

a. The drilling which has been done was primarily to determine quality of ore and no recovery was established.

b. These claims are located in desert area in the ~~Shinarump~~ Morrison formation and from surface indications of outcroppings and probe readings of drilling, indicate high mineralization. We are obtaining as many reports which we shall appreciate being returned to us. We are also enclosing a map of the claims.

c. The claims are about 85 miles South east of Blanding, Utah on eighteen miles of graveled Highway and eight miles of dirt road, which goes right to the property. The property is about 67 miles to Monticello, Utah, the nearest shipping point.

d. There are two small springs on the property, oil company, materials, supplies, etc. would be readily available.

5. The exploration Project:

a. The proposed work is to include drilling to determine extent and quality of ore, with some road building to be done to make access to the drill holes.

b. If the contract is completed during favorable weather, the work could start within ten to fourteen days and be completed in thirty to sixty days.

c. The actual work of drilling would be done by a qualified person or persons under contract, with the supervision of operations being done by the president of the company, who has had two years , exploration, drilling and mining experience, and assisted by the company geologist, who is well qualified both as to experience and education, and who is paid on a consulting basis only.

RECEIVED
JUL 16 1956

6. Estimate of costs.

(a) Independent contracts: For approximately 10,000 foot of drilling at lowest contract bid.

(b) Man to run catorpillar for necessary road building at approximately $2.00 per hour for 110 hours. Also, geological for geological consultation on drill sites.

(c) none

(d) The operator owns a catorpillar to be used in road building, with a purchase price of $11,000.00, suggested use allowance being $10.00 per hour for 110 hours.

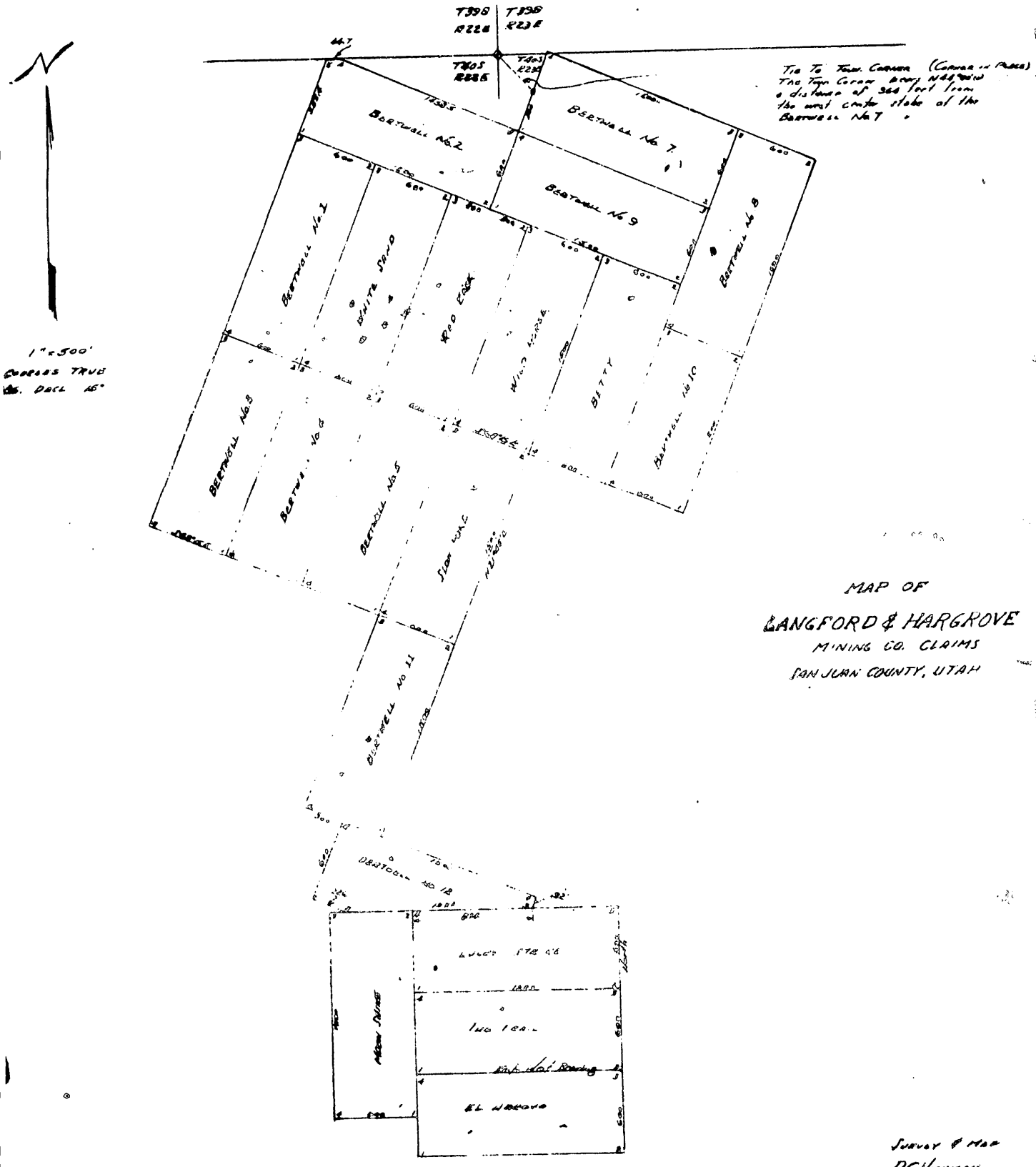
(e) None

(f) None

(g) None

(h) None

7. We are prepared to furnish our share of the cost of the proposed project, either by the use of equipment owned by us, or by cash, or both.



MAP OF

LANGFORD & HARGROVE

MINING CO. CLAIMS

SAN JUAN COUNTY, UTAH

Survey & Map
D.C. Hickman
Cortez, Colorado
Utah Registration No. 152

5

3

PHONE AMHERST 6-3231

MINERALS REFINING CO.

5221 SOUTH MAIN STREET

P. O. BOX 367

REPORT OF ANALYSIS

MURRAY, UTAH July 12, 1955

Invoice No. 7-12-55-5

Clyde Knapp
555 E. 56 So.
Murray, Utah

WE HAVE ANALIZED YOUR _____ SAMPLES AND FIND _____ TO CONTAIN AS FOLLOWS:

DESCRIPTION	NO.					
			Uranium			
Sample (Black)			22.6%			

REMARKS:

CHARGES $ 3.00 paid

MINERALS REFINING CO.

BY Hal C. Spratt

700

FILE COPY
Surname:
Ching
Ellis
Nelson
Zapp
Hoffmeister

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

DEC 20 1956

Mr. Clyde J. Knapp, President
Knapp Uranium Development Company
555 East 5600 South
Salt Lake City, Utah

Re: Docket No. DMEA-4382 (Uranium)
Lucky Strike, et al., Claims
San Juan County, Utah

Dear Mr. Knapp:

Your application for aid in an exploration project and other information available to us in Washington concerning the above-named property have been reviewed.

Projects approved by the Defense Minerals Exploration Administration must, in its judgment, show definite promise of yielding materials of acceptable grade in quantities that will significantly improve the mineral supply position for the National Defense Program.

Careful study of all our information, although noting some uranium mineralization on your property, indicates to us that the probability of disclosing significant ore reserves is not sufficiently promising to justify Government participation. We regret to advise you that, under these circumstances, your application for exploration assistance is denied.

We wish to thank you for your interest in the Defense Minerals Exploration Program and for bringing your property to our attention.

In accordance with the request in your application, we return herewith a Report of Analysis, dated July 12, 1955.

Sincerely yours,

C. O. Mittendorf

Administrator

MChing/izm 12-18-56
cc to: Docket
Code 700
Mr. Ching
Admr.'s Reading File
Operating Committee
Messrs. Crawford, Kiilsgaard, Hosted

DMEA Field Team, Reg. III (2)

Docket

700

Chiang
Ellis

December 18, 1956

Summary of Proposed Project

Object: Denial of application for an exploration project.

Docket No.: DMEA-4382

Commodity: Uranium

Applicant: Knapp Uranium Development Company
555 East 5600 South
Salt Lake City 7, Utah

Property: 20 lode mining claims; Lucky Strike, The Trail, El Arroya, Moonshine, White Sand, Red Rock, Wild Horse, Betty, Slow Poke (?), Bertwell Nos. 1-5, and 7-12, situated in T. 40 S., R. 22 & 23 E., San Juan County, Utah. Applicant is the owner.

Date of Application: July 10, 1956

Amount of Application: Not Stated

Work Proposed: Prepare access roads with caterpillar and drill approximately 10,000 feet of holes. No estimate of cost included.

Report of Examination: November, 1956 - D. P. Elston, USGS & H.F. Robertson, USBM:

The subject claims are located on a broad bench covered by a thin layer of dune sand and alluvium. A resistant sandstone layer in the lower part of the Morrison formation underlies the sand. This layer has Salt Wash characteristics and may be a tongue of the Salt Wash member in the overlying Recapture member. It represents the "ore-bearing sandstone" and ranges from 20 to 30 feet in thickness on the claims. In places it contains very small deposits of uranium minerals which cannot be mined economically from the outcrop. It is classed as generally unfavorable for ore, mainly on the basis of thickness and color, although locally there are parts which can be classed as semi-favorable.

Exploration to date consists of perhaps 25 shallow wagon drill holes. Six closely grouped holes in the northeastern part of the property were probed. One hole showed one foot of 0.13% eU_3O_8 and another showed 2 feet of 0.08% $e\ U_3O_8$. The remainder were either barren or showed only traces of radioactivity.

A prospect hole in the north-central part of the claims showed ore minerals localized in an irregularly bedded trashy sandstone lens of very limited extent. The analysis submitted with the application (22.8% U) covers a hand-picked specimen from this outcrop. The sample is by no means representative of any sizeable potential deposit.

A third occurrence of mineralization was found in a 30-foot tunnel driven on a thin weakly mineralized seam. No commerical grade ore was produced from the tunnel.

No significant ore bodies have been located within five miles of the subject property.

Concludes that exploration on the property would not develop ore bodies of significant size. Recommends that the application be denied.

Commodity Group Comments:

USBM, John E. Crawford, December 12, 1956:

Reviewed Report of Examination with the AEC representative. Agrees with Field Team that denial of application is in order.

USGS, N. E. Nelson, December 13, 1956:

Concurs with the Field Team recommendation that the application be denied.

Rare & Miscellaneous Metals Division, Michael Ching, December 18, 1956:

The application was quite incomplete, lacking details and results of work previously done, a program of work, and estimate of costs. Additional information was requested by the Washington office but a team of examiners working in the area examined the property before the requested information was submitted. The Grand Junction review of July 19, 1956, concluded that the area is generally unfavorable for the occurrence of economic deposits of uranium. This is the same conclusion reached by the field examiners. However, the examiners were able to give details and results of the work done by the Applicant which gave added weight to the recommendation for denial. Furthermore, the Grand Junction review mentioned the Hole In The Rock mine, with 2,000 tons of production, as occurring in the vicinity of the subject property. The field examiners stated that no significant ore bodies have been found within five miles of the subject property.

Conclusions and Recommendations:

The chances of making a worthwhile discovery on this property are poor. It is recommended that the application be denied.

Ernest Wm. Ellis

Ernest Wm. Ellis, Chief
Rare and Miscellaneous
Metals Division

12-14-56

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

REPLY REFER TO:

RECEIVED DEC 14 1956 D.M.E.A.

December 13, 1956
Re: DMEA 4382
Knapp Uranium Development Company
Pitchblende Group
San Juan County, Utah
Uranium

Memorandum

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

From: N. E. Nelson, U. S. Geological Survey

Subject: Review of Field Team Report

The applicant requested assistance in exploring, by drilling, a group of claims underlain by sometime uranium-bearing rocks.

Perhaps 25 drill holes have been put down by the applicant. One hole when probed showed about 1 foot of 0.13% eU_3O_8 material but offset holes failed to enlarge the showing. One selected sample from an outcrop, the assay of which was submitted by the applicant, assayed 22.8% U_3O_8, but in the opinion of the examiners it is not representative of an appreciable quantity of ore.

A 30-foot adit driven into the rim explored a thin, weakly mineralized seam. No ore was produced or indicated. The examiners conclude the claims are in an area of general unfavorableness as for the occurrence of uranium, and at the three places where uranium minerals do occur, the conclusion is correct. Therefore in the opinion of the examiners, exploration probably would not indicate any orebodies of significant size and recommend that the application be denied.

The Field Team and I concur with the recommendation.

N. E. Nelson

N. E. Nelson

12-13-56

RECEIVED
DEC 13 1956
D.M.E.A.

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

Date December 12, 1956

DMEA Docket No. 4382
DMEA Contract No.
Commodity Uranium
Name of applicant Knapp Uranium Development
Name of property Lucky Strike, et al claims
Location of property San Juan County, Utah
Estimated cost of project $10,000.00

Memorandum ✓

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee

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

Subject: Review of Field Team Report
(Application, Field Team Report, etc.)

1. Date of subject document: 11/29/56. 2. Date received by reviewer: 12/11/56.

3. Prior reports on this property known to reviewer: Yes ☐ No ☐

4. Prior reports on nearby properties known to reviewer: Yes ☐ No ☐

5. Information available on past production: Yes ☐ No ☐

6. Other pertinent factors known to reviewer: Yes ☐ No ☐

7. Explain items marked yes above:

8. Factors needing special consideration:
   a. Location ☐
   b. Ownership ☐
   c. Evidence of mineralization ☐
   d. Geology ☐
   e. Proposed exploration method ☐
   f. Alternate exploration method ☐
   g. Costs ☐
   h. _____ ☐

9. Action advised:
   a. Obtain information from applicant ☐
   b. Refer to Field Team ☐
   c. Denial [x]
   d. Agree with Field Team [x]
      i. Consult with Mr. _____ at _____ AEC office.
   e. Disagree with Field Team ☐
   f. Suggest alternate plan ☐
   g. Request another examination ☐
   h. Approval ☐

10. Remarks: (Use back of page if necessary) Mr. J. O. Hosted, Washington representative of the Atomic Energy Commission, assisted in the review.

700

FILE COPY
Surname: Ching
Wiesberg

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

NOV 30 1956

Mr. Clyde J. Knapp, President
Knapp Uranium Development Company
555 East 5600 South
Salt Lake City 7, Utah

Re: Docket No. DMEA-4382 (Uranium)
Lucky Strike, et al., Claims
San Juan County, Utah

Dear Mr. Knapp:

With reference to your letter of November 15, 1956, regarding the status of the subject application, we have been advised that a report of examination on your property was mailed to this office on November 29. The report should be received early next week and the contents will be thoroughly reviewed by the Washington office before a decision is reached. You may expect to hear from us in the near future.

Sincerely yours,

SIGNED

Ernest Wm. Ellis, Chief
Rare and Miscellaneous
Metals Division

MChing/izm 11-30-56
cc to: Docket
Code 700
Mr. Ching
Admr.'s Reading File
~~EXXXXXXXXXXXXXXXXXX~~
DMEA Field Team, Reg. III (2)
Messrs. JECrawford, Rm. 3643
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA

RCB.

12/7/56

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

224 New Customhouse
Denver 2, Colorado

November 29, 1956

RECEIVED DEC 3 1956 D.M.E.A.

Memorandum

To: Secretary to the Operating Committee

From: DMEA Field Team, Region III

Subject: Docket DMEA-4382 Report of Examination (Uranium) Knapp Uranium Development Company (Lucky Strike, et al claims) San Juan County, Utah

Enclosed are the original and three copies of a joint engineering and geologic Report of Examination covering the subject property. Authors are H. F. Robertson, USBM, and D. P. Elston, USGS and the report is transmitted and reviewed by J. William Hasler with approval of the manuscript by the authors' supervisors J. F. Shaw, Supervising Mining Engineer, and E. N. Harshman, member Region III Field Team, respectively.

The applicant's property is in an area generally unfavorable for uranium ore deposits in the Morrison formation. Mineralized zones disclosed by previously drilling are thin and erratically distributed and it is concluded that additional exploration would not result in the discovery of significant ore bodies. The examiners, therefore, recommend denial of the application and the Field Team concurs.

DMEA Field Team, Region III

By W. M. Traver
Executive Officer

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE
12-7-56
(date)

MINERAL DEPOSITS
DMEA
RECEIVED
NOV 27 1956
U. S.
GEOLOGICAL SURVEY,
DENVER, COLORADO

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
P. O. BOX 360
GRAND JUNCTION, COLORADO

TRANSMITTED
NOV 29 1956
DMEA
DEPARTMENT OF THE INTERIOR
NOV 28 1956
REGION III
DENVER, COLORADO

November 23, 1956

RECEIVED
DEC 3 1956
D.M.E.A.

Memorandum

To: Executive Officer, DMEA Field Team, Region III

Through: E. N. Harshman
J. F. Shaw

From: J. William Hasler

Subject: Transmittal of joint engineering and geologic report on the Pitchblende group of claims.
DMEA docket 4382 (Uranium) Knapp Uranium Development Company, San Juan County, Utah

The Knapp Development Company, 555 E. 5600 South, Salt Lake City, Utah, applied to the Defense Minerals Exploration Administration for assistance to explore the Pitchblende group of claims in Recapture Wash, Montezuma Mining District, San Juan County, Utah.

The application was referred to the field and an examination was made on September 28, 1956, by D. P. Elston, U. S. Geological Survey and H. F. Robertson, U. S. Bureau of Mines. The subject claims are located on a broad, gently undulating bench thinly covered by dune sand and alluvium. The resistant sandstone layer in the lower part of the Morrison formation of Jurassic age underlies the dune sand and alluvium. This sandstone layer, in places, contains small deposits of uranium minerals. These deposits to date, however, have been of non-commercial grade, even from the outcrop. The deposits are also small and erratic, even though the sandstone layer in which they occur is classed as semifavorable to unfavorable for ore. It is on the basis of this negative criteria, and the conclusions that the chances of finding ore bodies of commercial size and grade in an area that is generally unfavorble are not good, it is recommended that the request for assistance be denied.

The required number of maps are enclosed, also the brochure.

J. William Hasler
J. William Hasler,
Geologist.

JWH/mlr
Enclosures

Reviewed by
DMEA OPERATING COMMITTEE
12-7-56
(Date)

FOR UNITED STATES GOVERNMENT USE ONLY

TRANSMITTED

NOV 29 1956

UNITED STATES
DEPARTMENT OF THE INTERIOR
FRED A. SEATON, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION
REPORT OF EXAMINATION BY EXAMINING TEAM
REGION III

RECEIVED
DEC 3 1956
D.M.E.A.

DMEA 4382

Knapp Uranium Development Company

Pitchblende group

San Juan County, Utah

Uranium

Joint engineering and geologic report

by

D. P. Elston,
Geological Survey

H. F. Robertson,
Bureau of Mines

November 1956

Reviewed by
DMEA OPERATING COMMITTEE
12-7-56
(date)

RECEIVED
DEC 3 1956
D.M.E.A.

DMEA 4382

INTRODUCTION AND SUMMARY

On July 10, 1956, Knapp Uranium Development Company, 555 E. 5600 South, Salt Lake City, Utah, applied for Defense Minerals Exploration Administration assistance to explore their claims in Recapture Wash, Montezuma Mining District, San Juan County, Utah. The proposal consists of approximately 10,000 feet of drilling to be done in an unspecified number of holes. No estimate of overall project costs was submitted by the applicant. The holes would be drilled by wagon-drilling methods and would be located in areas favorable for uranium deposits.

A field examination was made on September 28, 1956, by D. P. Elston, U. S. Geological Survey, and H. F. Robertson, U. S. Bureau of Mines. The examining team was accompanied by Clyde Knapp, president of Knapp Uranium Development Company.

The subject claim group is located on a broad, gently undulating bench, thinly covered by dune sand and alluvium. A resistant sandstone layer in the lower part of the Morrison formation of Jurassic age underlies the dune sand on the bench. This layer, in places, contains small deposits of uranium minerals.

The deposits are very small and have been uneconomic to mine from outcrop. The host sandstone layer is classed as generally unfavorable for ore, mainly on the basis of thickness and color, although

locally there are parts which can be classed as semi-favorable and favorable for ore, and the potential for ore is practically nil. On the basis of the very small erratic deposits of uranium minerals and the general unfavorableness of the area it is recommended that the request for DMEA assistance for exploration be denied.

ACKNOWLEDGMENTS

Mr. L. C. Craig, U. S. Geological Survey, was consulted for data on the stratigraphic relations in the area. The U. S. Atomic Energy Commission was consulted for information concerning production and reserves in the area.

LOCATION, TOPOGRAPHY, AND PHYSICAL FEATURES

The Pitchblende group of claims in sections 1 and 12, T. 4 S., R. 22 E., and sections 6 and 7, T. 40 S., R. 23 E., Salt Lake Meridian, San Juan County, Utah, are 7 miles east of an access road junction with Utah Highway 47, eighteen miles south of Blanding, Utah (fig. 1). The nearest ore buying station for uranium ores is located at Monticello, Utah, a distance of 47 miles from the subject claim group. Limited quantities of mining equipment are available at Monticello. More complete stocks are maintained at Grand Junction, Colorado, a distance of 220 miles from the property.

The claims are on a gently rolling bench which is thinly covered by dune sand and which is dissected by gullies up to 30 feet deep.

The average altitude of the area is about 5,000 feet. The climate is arid, with hot, dry summers and cool, dry winters. Storms are infrequent and are usually local. Vegetation is sparse, consisting of sagebrush and cactus. Preparation of drill sites would not be difficult or expensive.

There are two small springs on the property which might produce enough water for a limited amount of drilling, but domestic water would have to be procured elsewhere, probably at Blanding, Utah. Timber is obtainable from suppliers operating in the La Sal Mountains. Power needs must be met by the individual operator by means of gasoline or diesel-driven light plants.

Living accomodations are usually furnished by the operating company unless project personnel commute from Blanding, Utah, where limited housing is available.

HISTORY, PRODUCTION, AND OWNERSHIP

The general area of the subject claim group has been prospected for uranium since about 1945. No significant ore bodies have been located within five miles of the subject property. There has been no production of commercial uranium ore from the Pitchblende group of claims.

The Pitchblende group of claims consists of 20 unpatented lode mining claims (fig. 2) which are recorded at the office of the County Clerk, San Juan County, Utah, as follows:

Claim name	Book	Page
Lucky Strike	249	367
The trail	249	368
El Arroya	249	368
Moonshine	249	369
White Sand	249	369
Red Rock	249	370
Wild Horse	249	370
Betty	249	371
Slow Poke	249	371
Bertwell No. 1	249	372
Bertwell No 2	249	372
Bertwell No. 3	249	373
Bertwell No. 4	249	373
Bertwell No. 5	249	374
Bertwell No. 7	249	374
Bertwell No. 8	249	375
Bertwell No. 9	249	375
Bertwell No. 10	249	376
Bertwell No. 12	249	377

A quit-claim deed from Langford and Hargrove Mining Company to Knapp Uranium Development Company is recorded in book 339, page 149.

The claims have been surveyed and location procedures appear to have been valid. Claim corners and discoveries were marked on the ground at places checked by the examining team. However, a detailed check was not made.

PRESENT STATUS

Exploration and development

Exploration to date has consisted of perhaps as many as 25 wagon drill holes located at various places on the claims. No apparent

pattern was followed in the location of drill sites, and, as stated by the applicant, the drilling was "primarily to determine quality of ore and no reserves were established". Six of the wagon-drill holes in the northeast part of the area were probed during the examination. This group of holes is comprised of one "discovery" hole (averaging 0.13 percent eU_3O_8 and about one foot thick) surrounded by five holes offset 8 to 10 feet from the central hole. One offset was mineralized (averaging 0.08 percent eU_3O_8 and about two feet thick), three penetrated rock which contained traces of radioactivity, and one was barren. The holes are about 10 feet deep.

An exposed occurrence of uranium minerals is in a prospect in the north-central part of the claims. The ore minerals are in the lowermost part of a thin sandstone layer and are localized in an irregularly bedded trashy sandstone lens of apparently very limited extent. The sample represented in the assay report submitted by the applicant came from this outcrop and was hand-picked from spotty occurrences of uranium minerals associated with carbonaceous material. The sample is by no means representative of any sizeable potential deposit.

A third occurrence of ore minerals, about 750 feet to the west, was inspected. It consisted of a short tunnel driven into the rim for about 30 feet. The tunnel was driven on a thin, weakly mineralized seam and was abandoned without producing any commercial grade uranium ore.

Mining equipment and other facilities

There are no buildings and equipment on the property. Access roads have been bulldozed at various places on the claims, but, due to the loose, drifting sand, usually become impassable to most 2-wheel drive vehicles.

PROPOSED EXPLORATION

The applicant's exploration proposal includes approximately 10,000 feet of drilling to be done in an unspecified number of wagon drill holes. No specific program was submitted by the applicant in regard to location of drill holes. No estimate of the overall cost of such a project was included in the brochure. The examining team estimates that the overall cost of the applicant's proposed program would be about $10,000.00.

An engineering cost estimate by the examining team is not being submitted.

PROPOSED FINANCING

The applicant proposes to furnish his share of the cost in money and the use of equipment owned by the company. Inasmuch as the applicant would utilize his own technical staff, part of the share would probably be furnished by services rendered.

GEOLOGY

The subject claims are located on a broad, gently undulating bench about 3/4 to 1-1/2 miles east of the Recapture Creek drainage. The bench is covered by a thin veneer of dune sand and alluvium and is dissected by gullies up to 30 feet deep. A resistant sandstone layer in the lower part of the Morrison formation of Jurassic age underlies the dune sand on the bench. In the area, this sandstone layer contains small deposits of uranium minerals.

The strata exposed on and near the claims are late Jurassic and early Cretaceous in age. The following generalized stratigraphic section is condensed from an unpublished section measured about one-half mile south of the claims by L. C. Craig, U.S. Geological Survey, in August 1949.

Age	Formation	Lithology	Thickness
Cretaceous	Burro Canyon formation	Light yellow to white and brown sandstone and conglomeratic sandstone.	99
Jurassic	Morrison formation Brushy Basin member	Light greenish gray to dark red claystones and minor sandstone lenses.	251
	Westwater Canyon member	Yellow gray to light greenish gray sandstones and light greenish gray claystones	200

Age	Formation	Lithology	Thickness
Jurassic	Recapture member	Pale red, grayish-red and pale green claystone, and pale red, pinkish gray to white sandstone lenses (ore-bearing sandstone" on Pitchblende claims may be equivalent to sandstone lenses 124 to 150 feet above base in detailed section)	183
	Salt Wash member	White to very light gray, locally conglomeratic sandstone and numerous discontinuous red and green shale lenses; basal 38 feet of above member may belong in the Salt Wash member	34
	Bluff sandstone	Light brown, grayish brown and reddish brown sandstone	219 (incomplete)

The "ore-bearing sandstone" on the claims is a series of sandstone lenses which form a thin but rather continuous sandstone layer. This layer has Salt Wash characteristics and may be a tongue of the Salt Wash member in the Recapture member. The sandstones range from white to light gray, gray-green, brown and pale red. They are composed mainly of fine- to medium fine-grained subangular clear quartz with minor amounts of orange and black accessory minerals. Over the central and southern parts of the claims the sandstone layer is about 20 feet thick; northward it is about 30 feet thick. Where it is the thickest, the uppermost lenses are friable and wheather into rounded slopes.

The lowermost 15 to 20 feet of sandstone is better cemented and forms much of the broad bench upon which the claims have been staked. Uranium minerals are localized in sandstone lenses in the lower part of this layer. The lenses are cross-bedded and cross-laminated; they are commonly wedge-shaped, but locally the cross-beds are festoon shaped. Locally bedding is obscure, and very locally there are accumulations of carbonaceous trash and remnants of fossil trees; some of the latter are highly carbonaceous and others are silicified. Red-brown and green mudstone as thin films and scattered pebbles is common.

The ore minerals observed in the small workings are distributed as irregular small spots or as very thin bedding plane layers. Near diamond drill hole No. 8 (fig. 2) the ore minerals are in an irregularly bedded carbonaceous sandstone pod or lens that is very limited in extent and which appears to be a lithified slumped cut-bank. They are not in immediately adjacent crossbedded sandstone. The carbonaceous lens is in the lower part of the sandstone layer and is underlain by green mudstone. The sandstone layer here is about 30 feet thick; the upper 15 feet is light red to light brown, flagging to thin-bedded, friable, and locally it has thin seams of red mudstone at its base. The lower 15 feet is light gray to buff, is composed of tabular to festoon cross-beds and contains some green mudstone as bedding plane films; away from the prospect the cross-beds appear to be more flat than near the prospect. Calcite and

perhaps some gypsum occurs as thin fracture fillings near the ore minerals. To the west, near hole 7, a thin (0.1 foot) and narrow (5 feet wide) weakly mineralized layer at the base of a large festoon has been followed by a short tunnel. The potential of both of these occurrences is nil.

Near hole 8 the ore minerals appear to be mainly a dark uranium mineral, probably uraninite or coffinite associated with carbonaceous trash in the sandstone and a very sparse light-orange uranium bloom where the ore minerals have been oxidized. There is apparently little vanadium in the rock. The lack of vanadium would preclude the fixation of uranium during oxidation except where abundant carbonaceous material and local sedimentary structures could maintain a reducing environment from which the uranium would not be flushed out.

CONCLUSIONS AND RECOMMENDATIONS

The subject claims are in an area of general unfavorableness for the occurrence of uranium ore deposits in the Morrison formation. The mineralized zones seen on the property were thin and erratically distributed. The results of drilling to date on the property have been negative. It is concluded that exploration on the property could not develop any ore bodies significant size and DMEA participation in a project on the property is not warranted. It is recommended, therefore, that the application for Government assistance be denied.

U. S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DEFENSE MINERALS EXPLORATION ADMINISTRATION
OCTOBER 1956
DOCKET 4382

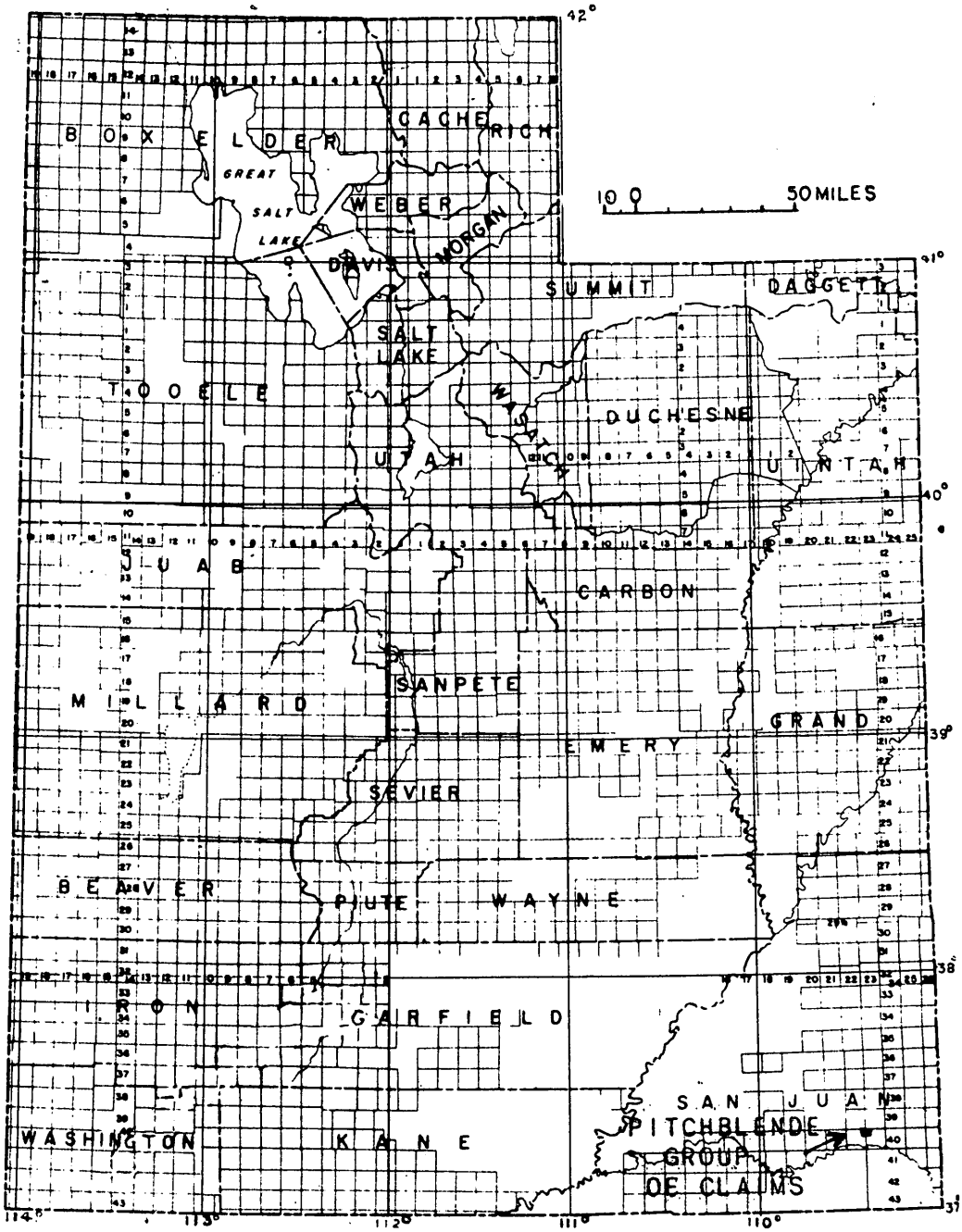
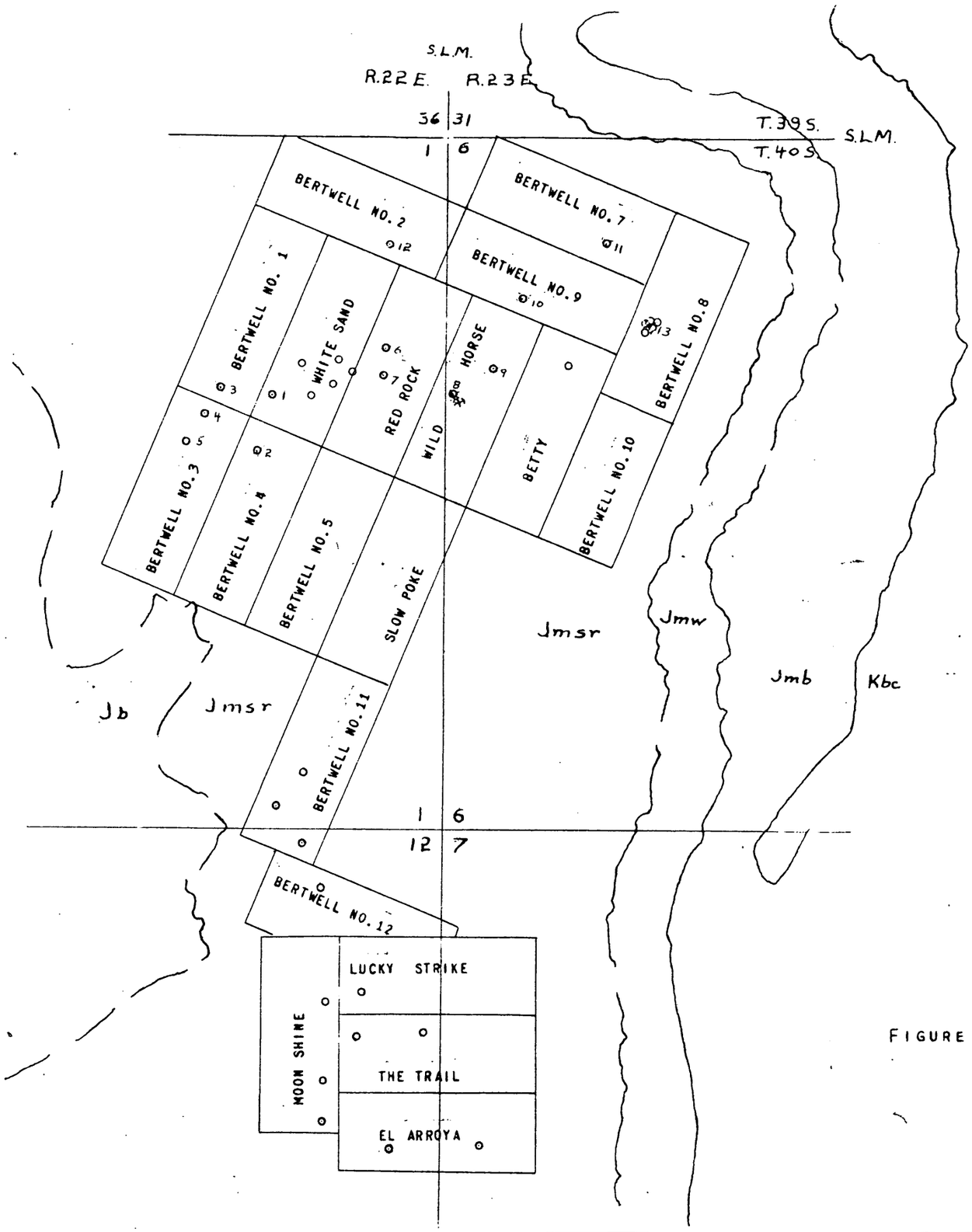


FIGURE 1.--INDEX MAP OF UTAH SHOWING LOCATION OF THE PITCHBLENDE GROUP OF CLAIMS, KNAPP URANIUM DEVELOPMENT COMPANY, MONTEZUMA MINING DISTRICT, SAN JUAN COUNTY, UTAH.

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DEFENSE MINERALS EXPLORATION ADMINISTRATION
OCTOBER 1956 DOCKET 4382



EXPLANATION

SEDIMENTARY ROCKS

Kbc	BURRO CANYON FORMATION OF EARLY CRETACEOUS AGE
Jm	MORRISON FORMATION OF LATE JURASSIC AGE
Jmb	BRUSHY BASIN MEMBER
Jmw	WESTWATER CANYON MEMBER
Jmsr	SALT WASH-RECAPTURE MEMBER; UNDIFFERENTIATED
Jb	BLUFF SANDSTONE OF LATE JURASSIC AGE
⚒	PROSPECT
o	DRILL HOLES, PROPOSED AND DRILLED UNDIFFERENTIATED; FROM APPLICANTS MAP.

NOTE: GEOLOGY FROM U.S.A.E.C. PHOTOGEOLOGIC MAP BY R.J. HACKMAN, ANETH-5, MAY 1952. CLAIM LINES FROM APPLICANTS MAP.

1000 0 3000 FEET

FIGURE 2.--GEOLOGIC MAP OF THE PITCHBLENDE (RECAPTURE) GROUP OF CLAIMS, KNAPP URANIUM DEVELOPMENT CO., SAN JUAN COUNTY, UTAH.

Mr. George Selfridge

11/29/56.

Noted

RECEIVED NOV 29 1956 D.M.E.A.

DN 235 BUR MINES 11-29-56 8-41

CHAIRMAN, OPERATING COMMITTEE, DMEA

REURTT 11-23-56 DOCKET DMEA-4382, KNAPP URANIUM DEVELOPMENT CO., SAN JUAN COUNTY, UTAH. REPORT RECOMMENDING DENIAL WILL BE TRANSMITTED TODAY.

W M TRAVER

Denver, Colo.

NOV 29 11 52 AM '56

Surname copy

700

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

Selfridge
Johnson
Whitenberg

NOV 23 1956

Mr. W. M. Traver
Executive Officer
DMEA Field Team, Region III
224 New Customhouse Building
Denver 2, Colorado

Re: Docket No. DMEA-4382 (Uranium)
Knapp Uranium Development Company
Lucky Strike, et al., Claims
San Juan County, Utah

Dear Mr. Traver:

Enclosed are two copies of a letter, dated November 15, 1956, from Mr. Clyde J. Knapp, president of the subject company, replying to our letter of November 9, copies of which were forwarded to you.

Mr. Knapp states that he met with DMEA representatives approximately seven weeks ago when an examination was made of the property, and that a report of the examination was to be written by the field representatives following the examination. Kindly advise us regarding action taken in the field on this application.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (SLB)

Enclosures

APPROVED:

Frank D. Lamb (SLB)
Member, Bureau of Mines

Thor H. Kiilsgaard (SLB)
Member, Geological Survey

EWEllis/gla
11-19-56
cc to: Admr.'s Reading File
Operating Committee
Docket
Messrs. JECrawford, 3643
THKiilsgaard, 5224
JOHosted, 3210, GSA
Code 700

R.C.S.

11/19/56 gla

Knapp Uranium Development Company

555 EAST 5600 SOUTH
SALT LAKE CITY 7, UTAH

November 15, 1956

United States
Department of the Interior
Defense Minerals Exploration Adm.
Washington 25, D. C.

Re: Docket No DMEA 4382 (Uranium)
Lucky Strike, et al., Claims,
San Juan County, Utah

Attention Mr. Frank E. Johnson:

Dear Mr. Johnson:

Referring to yours of November 9, 1956, we had not written you further on this subject because of a request we received from the Grand Junction office that I meet two of the D.M.E.A. field men on the property in question while they were working in that area.

This was approximately seven weeks ago. We went over the property thoroughly at that time, and they said they would write up a report and I would hear from them later, but I have heard nothing from the to date.

I would be glad to learn of their findings and intentions so I can plan accordingly.

Very truly yours,

Clyde J. Knapp
Clyde J. Knapp
President

CJK:osk

RECEIVED
NOV 19 1956
D.M.E.A.

Surname copy

700

Ellis

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

Mr. Clyde J. Knapp, President
Knapp Uranium Development Company
555 East 5600 South
Salt Lake City 7, Utah

Re: Docket No. DMEA-4382 (Uranium)
Lucky Strike, et al., Claims
San Juan County, Utah

Dear Mr. Knapp:

Reference is made to our letter of August 31, 1956, and your reply, dated September 10, advising that some of the additional information we requested in connection with the subject application would have to be supplied by your geologist who was at that time out of the United States.

We wish to cooperate with you fully in allowing ample time to supply the requested information; however, we cannot indefinitely postpone action on an application. Therefore, if we do not receive the information within 30 days from the date of this letter, we will assume that you are no longer interested in proceeding with your application, and we will consider it as having been withdrawn.

Sincerely yours,

By ey

ACTING Administrator

EWEllis/gla
11-9-56
cc to: Admr.'s Reading File
Docket
Messrs. JECrawford, 3643
THKiilsgaard, 5224
JOHosted, 3210,GSA
Code 700
DMEA Field Team, Region III (2)

R.C.S.

9/14/56 gla

Knapp Uranium Development Company

555 EAST 5600 SOUTH
SALT LAKE CITY 7, UTAH

RECEIVED
SEP 14 1956

September 10, 1956

Mr. Ernest Wm. Ellis, Chief
Defense Minerals Exploration Administration
U. S. Dept. of Interior
Washington 25, D. C.

Re: Docket No. IMEA-4382 (Uranium.
Lucky Strike, et al., Claims,
San Juan County, Utah

Dear Mr. Ellis:

This is to advise you that we are still interested in the processing of this application, however, some of the additional information you have asked for will have to be supplied by our geologist, who is at present out of the United States.

Upon his return, which should be within the next thirty days, we shall endeavor to supply you with the information you have requested.

Very truly yours,

Clyde J. Knapp

CJK:osk

2 copies to Reg. III
9/14/56

Surname copy

700

Ellis
Johnson

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

AUG 31 1956

Mr. Clyde J. Knapp, President
Knapp Uranium Development Company
555 East 5600 South
Salt Lake City, Utah

Re: Docket No. DMEA-4382 (Uranium)
Lucky Strike, et al., Claims
San Juan County, Utah

Dear Mr. Knapp:

Reference is made to our letter, dated July 19, 1956, relating to the captioned docket.

Action on your application is pending receipt of the information requested in the above-mentioned letter. If you are no longer interested in the processing of this application, please advise us.

Sincerely yours,

Ernest Wm. Ellis, Chief
Rare and Miscellaneous
Metals Division

EWEllis/gla
8-31-56
cc to: Docket
Code 700
Admr.'s Reading File
DMEA Field Team, RegionIII (2)
messrs. JECrawford, Rm. 3643
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA

R.C.R.

8/7/56

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

RECEIVED
AUG - 6 1956

August 3, 1956

Memorandum

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee

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

Subject: Application for Assistance, DMEA Docket 4382 (Uranium)
Knapp Uranium Development Company (Lucky Strike et al claims) San Juan County, Utah

I have reviewed the attached application, DMEA Docket 4382, Knapp Uranium Development Company (Lucky Strike et al claims) San Juan County, Utah, dated July 10 and received in this office July 30, 1956. I have also discussed it with Joseph O. Hosted, Washington representative of the Atomic Energy Commission.

It is noted that the applicant has been requested to submit additional information including maps, itemized cost estimate, exploration justification, and pertinent drilling data. However, the field team recommend that an examination of the property be made because some uranium has been produced in the general area.

Mr. Hosted concurs in the recommendation that a field examination be made.

I recommend that the application be held in abeyance pending the receipt of additional information requested by Ernest William Ellis, DMEA, on July 19, 1956.

John E. Crawford
John E. Crawford

Attachment

IN REPLY REFER TO:

7/31/56

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

RECEIVED
JUL 31 1956

July 30, 1956

Memorandum

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

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

Subject: Review of application, DMEA 4382, (uranium), Knapp Uranium Development Company, Recapture claim group, Montezuma Canyon district, San Juan County, Utah.

The applicant proposes to explore for uranium deposits in Montezuma Canyon. The work would consist of 10,000 feet of drilling with attendant road building and drill site preparation.

No bids for the drilling are presented; cost estimates in the application are incomplete; and the over-all estimated cost of the project is not given.

Ore deposits in Montezuma Canyon have long been known to be small and erratically distributed. I doubt that DMEA participation in exploration work on the subject property is warranted at this time. However, in view of the fact that a 2,000 ton orebody is known in the vicinity and from the standpoint of public relations I agree with Grand Junction personnel that a field examination is appropriate.

W. P. Williams

W. P. Williams

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

RECEIVED
JUL 27 1956

July 24, 1956

224 New Customhouse
Denver 2, Colorado

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Field Team, Region III

Subject: Docket DMEA 4382 (Uranium) Knapp Uranium Development Company, (Lucky Strike et al. claims), San Juan County, Utah

Enclosed are the original and three copies of a joint review of the subject application by members of the Grand Junction Office, DMEA.

They have no data on the specific property but since a mine with some production is known to occur in the general area, they recommend that a field examination be made. We concur in this recommendation.

DMEA Field Team, Region III

W. M. Traver

By W. M. Traver
Executive Officer

Enclosures

HMP

IN REPLY REFER TO:
MINERAL DEPOSITS
DMEA
RECEIVED
JUL 20 1956
GEOLOGICAL SURVEY
DENVER, COLORADO

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DMEA
Rec'd.
JUL 23 1956

P. O. Box 360
Grand Junction, Colorado

BUREAU OF MINES
Denver, Colorado
RECEIVED
JUL 27 1956

Memorandum

July 19, 1956

To: Executive Officer, DMEA Field Team, Region III

Through: E. N. Harshman
J. William Hasler

From: Carl H. Roach
M. H. Salsbury

Subject: Application for DMEA aid (Uranium)
Knapp Uranium Development Company (Lucky Strike et al claims),
San Juan County, Utah

We have discussed the subject property with both the U. S. Bureau of Mines and AEC representatives in Grand Junction. All data obtained indicate that the Salt Wash member of the Morrison formation in the Montezuma Canyon area is generally unfavorable for the occurrence of economic deposits of uranium. However, one mine (The Hole in the Rock Mine) occurs in the vicinity of the subject property and has produced about 2,000 tons of ore with an average grade of 0.28 percent U_3O_8 and 0.27 percent V_2O_5. We were unable to obtain any data pertaining to the specific property in question, and therefore do not know its relation to the Hole in the Rock Mine.

However, since no data are available on the specific property, and since a mine with some production is known to occur in the general area, we recommend that a field examination of the subject property be made.

Carl H. Roach
Carl H. Roach
Geological Survey

M. H. Salsbury
M. H. Salsbury
Bureau of Mines

CHR/mlr

700

FILE COPY
Surname:
Mitchell

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

JUL 19 1956

Mr. Clyde J. Knapp, President
Knapp Uranium Development Company
555 East 5600 South
Salt Lake City, Utah

Re: Docket No. DMEA-4382 (Uranium)
Lucky Strike, et al., Claims
San Juan County, Utah

Dear Mr. Knapp:

An examination of your above-docketed application for Government aid in an exploration project discloses that essential information which would enable us to process said application is lacking, namely:

1. A map or sketch, drawn to scale approximately twice the size of the one submitted with the application, whereon the following should be indicated:

   (a) the surface areas of the rock formations;
   (b) location and values of any samples taken and/or radioactivity recordings;
   (c) the location of roads presently constructed and the location of the road work you propose to do under the subject application;
   (d) the location, collar elevation, and depths of holes you have drilled to date; and
   (e) the approximate location, collar elevation, and estimated depths of holes to be drilled.

2. A narrative report containing the following information:

   (a) an itemized estimate of the cost of the project in accordance with Article 6 of the application Form MF-103, a copy of which is enclosed for your guidance;

   (b) justification for the proposed drilling in the areas selected, i.e., the possibilities of making a significant discovery of uranium ore;

   (c) the type of drill you propose to employ; state whether the proposed holes are to be core-drilled from the surface to the bottom, or whether the holes are to be started non-core and then cored through the inferred mineralized zone; and

R.G.L.

(d) the distance to, and, if available, the production records of any adjacent uranium properties.

Upon receipt of the above-requested information we will promptly continue to process the subject application.

Sincerely yours,

Ernest Wm. Ellis, Chief
Rare and Miscellaneous
Metals Division

Enclosure

EWEllis/gla/izm 7-18-56
cc to: Docket
Code 700
Mr. Ellis
Admr.'s Reading File
DMEA Field Team, Reg. III (2)
Messrs. JECrawford, Rm. 3643
THKiilsgaard, Rm. 5205
JOHested, Rm. 3210, GSA

July 16, 1956

Knapp Uranium Development Co.
555 E. 5600 So.
Salt Lake City, Utah

Subject: DMEA-4382
Re: Exploration Assistance
Lucky Strike et al. Claims

Gentlemen

The receipt of your application dated July 10, 1956 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-4382 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

July 16, 1956

Memorandum

To: Executive Officer, DMEA Field Team, Region III

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 III.

DMEA
-4382 Knapp Uranium Development Co.
Lucky Strike et. al. Claims

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

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

RECEIVED
JUL 16 1956

224 New Customhouse
Denver 2, Colorado

July 12, 1956

Memorandum

To: Secretary to the Operating Committee, DMEA

From: DMEA Field Team, Region III

Subject: Application for DMEA aid (Uranium) Knapp Uranium Development Company (Lucky Strike et al claims), San Juan County, Utah

Enclosed are two copies of the subject application.

The application is incomplete in that no definite exploration program or estimated costs have been submitted by the applicant.

One copy of the application is being forwarded to the Grand Junction office for their review and recommendations and one copy is being retained in our files.

DMEA Field Team, Region III

W. M. Traver

Enclosures

By W. M. Traver
Executive Officer

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

RECEIVED
JUL 1 6 1956

July 13, 1956

Mr. Rex Gustenhouse
Denver 2, Colorado

Memorandum

To: J. W. Mealer

From: DMEA Field Team, Region III

Subject: Application for DMEA Aid (Uranium) Knapp Uranium Development Company (Lucky Strike et al claims), San Juan County, Utah

Enclosed is the subject application in which the applicant has submitted no definite exploration program or estimate of costs.

Please discuss this application with the Bureau of Mines representative in the Grand Junction office and the AEC and forward this office nine copies of your recommendations concerning the advisability of making a field examination.

DMEA Field Team, Region III

W. M. TRAVER.

by W. M. Traver
Executive Officer

Enclosure

WMC:ab

cc: Docket
Secy. ~~Chmn.~~ Op. Comm. (2)
Hardman
Shaw (2)
Chron.

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

DMEA
Date Rec'd JUL 16 1956

JUL 12 1956
BUREAU OF MINES
Denver, Colorado

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. 4382
Metal or Mineral Uranium
Date Received 7-16-56
Estimated Cost Not Given
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: Knapp Uranium Development Company, a Utah Corp., 555 E. 5600 So., Salt Lake City, Utah. Clyde J. Knapp, Pres. & Dir., T.C. McAdams, V. Pres. & Dir., Olive S. Knapp, Sec. Treas., L. L. Stowe, Dir., Wane A. Ashworth, Dir., Kenneth McGriffin, Dir., (all of Salt Lake City) & Wm. T. Old, Santa Fe, N. M., Dir., Carl I Dismant, Monticello, Ut., Dir.

(*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.

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 Twenty claims in Recapture Wash, Montezuma Mining District, San Juan County, Utah, known as Lucky Strike, The trail, El Arroya, Moonshine, White Sand, Red Rock, Wild Horse, Betty, Bertwell #1,2,3,4,5,7,8,9,10,11 and 12, situated Township 40 S, Range 22& 23 East. Book 249, pages 367 thru 377 incl., Quite claimed in Book 339, page 149.

(*b*) State any mine name by which the property is known. Pitchblende Group

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise owner

(*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.

(*e*) If you own the land, describe any liens or encumbrances on it None

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice.

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. attached

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades attached

(*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. attached

(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points. attached

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

16—66551-1

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.

(*c*) The work will start within ..... days and be completed within ..... 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.

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:

(*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?

☐ 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 July 10, 1956

Knapp Uranium Dev. Co
(Applicant)

By Clyde Knapp
Pres

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

RECEIVED
JUL 16 1956

4. Physical description: To date no mining has been done on this property, however some road building and drilling has been done and the claims are readily accessible for examination, further exploration and mining.

b. The drilling which has been done was primarily to determine quality of ore and no reserves were established.

c. These claims are located in desert area in the ~~Shinarump~~ Morrison formation and from assays made of outcroppings and probe readings at drilling, indicate high mineralization. We are attaching an assay report which we would appreciate being returned to us. We are also enclosing a map of the claims. 22.8% manganese. Report by Mineral Refining Co., Murray, Utah, dated July 12, 1955

d. The claims are about 26 miles South east of Blanding, Utah on eighteen miles of graveled highway and eight miles of dirt road, which goes right to the property. The property is about 47 miles to Monticello, Utah, the nearest shipping point.

e. There are two small springs on the property, and manpower, materials, supplies, etc. would be readily available.

5. The exploration Project:

b. The proposed work is to include drilling to determine extent and quality of ore, with minor road building to be done to make access to the drill holes.

c. If the contract is completed during favorable weather, the work could start within ten to fourteen days and be completed in thirty to sixty days.

d. The actual work of drilling would be done by a qualified person or persons under contract, with the supervision of operations being done by the president of the company, who has had two years , exploration, drilling and mining experience, and assisted by the company geologist, who is well qualified both as to experience and education, and who is paid on a consulting basis only.

6. Estimate of costs.

(a) Independent contracts: For approximately 10,000 feet of drilling at lowest contract bid.

(b) Man to run caterpillar for necessary road building at approximately $2.00 per hour for 110 hours. Also, geologist for geological consultation on drill sites.

(c) none

(d) The operator owns a caterpillar to be used in road building, with a purchase price of $11,000.00, suggested use allowance being $10.00 per hour for 110 hours.

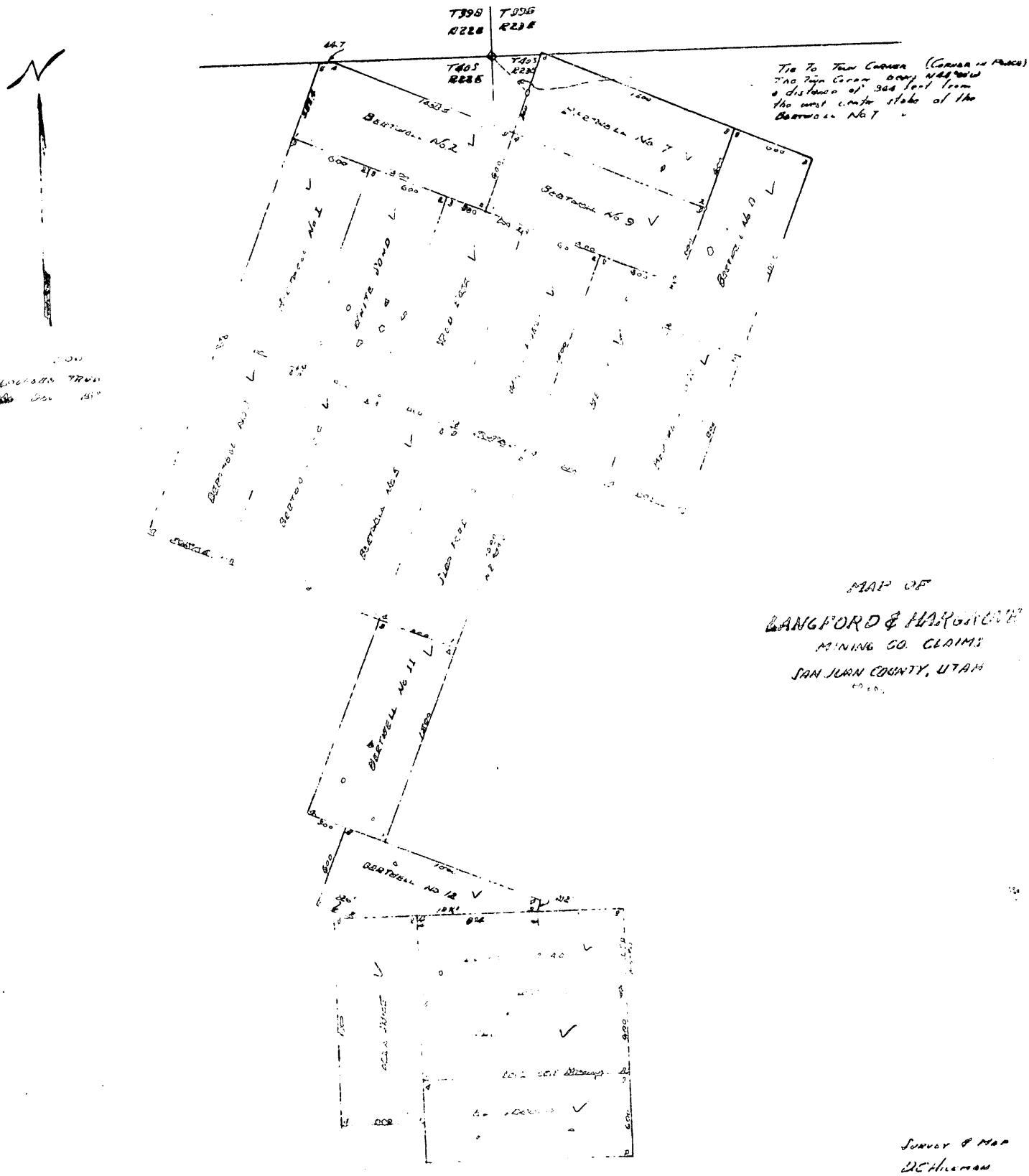
(e) None

(f) None

(g) None

(h) None

7. We are prepared to furnish our share of the cost of the proposed project, either by the use of equipment owned by us, or by cash, or both.


T39S
R22E
T40S
R22E
Tie To Town Corner (Corner in Place)
Tie Town Corner bears N44°W
a distance of 364 feet from
the west center stake of the
Bertwell No 7
Bertwell No 2
Bertwell No 7
Bertwell No 9
Bertwell No 10
Bertwell No 11
Bertwell No 12
Bertwell No 5
Bertwell No 1
WHITE JOAD
RED ROCK
JUDD ROCK
MAP OF
LANGFORD & HARGRAVE
MINING CO. CLAIMS
SAN JUAN COUNTY, UTAH
Survey & Map
D.C. Hillman
Cortez, Colorado
Utah Registration No