DMA Form 1

DEFENSE MINERALS ADMINISTRATION
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DMA Docket No. 3708

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MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

(file ?)

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. 3708
Metal or Mineral Uranium, Vanadium
Date Received 3-3-55
Estimated Cost $70,684
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: Golden Bear Uranium, Inc.,
248 North First Street,
Reno, Nevada

(*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. **See supplement**

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

(*d*) If a partnership, add to the above statement the names and addresses of all partners. **Not applicable**

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 DMEA application is made on 34 Blue Bird, Blackbird and Redbird claims located in Sections 4, 5, 8 & 9, T28S, R26E. San Juan County, Utah.

(*b*) State any mine name by which the property is known. **None**

(*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. **Not applicable**

(*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. **See supplement**

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. **None**

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades. **None**

(*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 attached reports by Robert G. Harding and E. J. Mayhew**

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

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

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

(*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 attached map and Par's. 10, 11 & 12 of Harding's report

(*c*) The work will start within 15 days and be completed within 1 year xxxx 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 supplement

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. see supplement

(*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.). See supplement

(*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. See supplement

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

(*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. See supplement

(*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. See supplement

(*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. See supplement

(*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. See supplement

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

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)? Yes

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

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

Explain in detail on acompanying paper. Golden Bear will rent it's new Jeep Station wagon as shown in estimate of cost. Golden Bear will furnish it's share in money from cash on hand.

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 February 16, 1955.

GOLDEN BEAR URANIUM, INC.
(Applicant)

By Harold W. Taber
Harold W. Taber, President.

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

Application of:
Golden Bear Uranium, Inc.,
248 North First Street,
Reno, Nevada.

SUPPLEMENT

Par. 1 (b) Golden Bear Uranium, Inc., is incorporated in the State of Nevada.

(c) Names and addresses of Officers:

President	Harold W. Taber, Route 1, Box 7, Oroville, California.
Vice-President	John Sandburg, 3360 "H" Street, Sacramento, California.
Secretary	Walter G. Pierce, 2007 "J" Street, Sacramento, California.
Treasurer	L. D. Carlson, 1300 - 46th Street, Sacramento, California.

Par. 3 (f) The following claims are recorded in the Office of the County Recorder, San Juan County, Monticello, Utah:

CLAIM NAME	BOOK	PAGE
Blackbird No. 1	179	206
Blackbird No. 2	179	206
Blackbird No. 3	179	207
Blackbird No. 4	179	207
Blackbird No. 5	179	208
Blackbird No. 6	179	208
Blackbird No. 7	179	209
Blackbird No. 8	179	209
Blackbird No. 9	179	210
Blackbird No. 10	179	210
Blackbird No. 11	179	211
Blackbird No. 12	179	211
Redbird No. 1	179	212
Redbird No. 2	179	212
Redbird No. 3	179	213
Redbird No. 4	179	213
Redbird No. 5	179	214

	CLAIM NAME	BOOK	PAGE
Par. 3 (f) Cont'd.	Redbird No. 6	179	214
	Redbird No. 7	179	215
	Redbird No. 8	179	215
	Redbird No. 9	179	216
	Redbird No. 10	179	216
	Bluebird No. 1	179	217
	Bluebird No. 2	179	217
	Bluebird No. 3	179	218
	Bluebird No. 4	179	218
	Bluebird No. 5	179	219
	Bluebird No. 6	179	219
	Bluebird No. 7	179	220
	Bluebird No. 8	179	220
	Bluebird No. 9	179	221
	Bluebird No. 10	179	221
	Bluebird No. 11	179	222
	Bluebird No. 12	179	222

These claims, owned by Golden Bear Uranium, Inc., are located at State Line Draw, San Juan County, Utah, in Sections 4, 5, 8 and 9, in Township 28 South, Range 26 East, S.L.B.&M. After surveying, amended location notices were filed on this group of claims on September 10, 1954.

The original location notices were recorded by A. M. Stocks as follows:

CLAIM NAME	BOOK	PAGES
Blackbird #1 thru #12	103	437 thru 443
Bluebird #1 thru #12	103	443 thru 449
Redbird #1 thru #10	103	432 thru 437

Par. 4 (c) --

1. Geologic Features of the Property. (See also accompanying Geologists' Reports).

The formation is entirely sedimentary. The claims occupy the nearly flat top of a long spur running southwesterly and bordered on each side by a small hollow roughly parallel to the side lines of the claims. Over most of the area the surface forms a dip slope on top of the Dakota sandstone, which dips 4° to 6° to the south.

In the hollows on both sides, the Brushy Basin member of the Morrison is exposed and beneath this, and running under the entire area of the property, is the ore-bearing Salt Wash Member of the Morrison Formation. In this locality the Dakota Sandstone is about 100 feet thick, the Brushy Basin Member about 400 feet, and the Salt Wash Member is about 250 feet thick. The ore shoots or lenses normally

Par. 4 (c) - Continued.

occur in the upper portion of the Salt Wash member which makes the depth of drilling from the top of the Dakota sandstone about 600 feet. Where drills will start in the Brushy Basin the depth will vary from 450 to 500 feet.

2. Mineralization and Type of Deposit.

The minerals sought for are the ores of Uranium and Vanadium. On the Colorado Plateau these ores occur as bedded, lenticular deposits in the Salt Wash Member of the Morrison Formation of Jurassic age and are normally located by drilling from the surface.

3. Reasons for Wishing to Explore this Property.

The primary reason for exploration of this particular property is for the production of Uranium ores in furtherance of defense efforts of the United States. This property was selected for development by applicant, Golden Bear Uranium, Inc., because it was considered to have a high potential for successful development.

Fortunately there is a large target area of proven producers on all sides of the property. This includes old, well established producers as well as recent operations. It should be noted that the same ore bearing strata underlie applicants' property as is found to be mineralized in these various mines. A few of these will be cited as follows:

(a) Polar Mesa district on the north operated by Vanadium Corporation of America and others has produced and is now producing a large tonnage of high grade ore.

(b) Beaver Mesa, also to the north, is being extensively drilled and several properties are in production.

(c) The Lion Mine due eastward has been operated by the Vanadium Corporation of America for several years.

(d) Three miles due south the Vanadium Queen and Hercules mines have operated consistently for many years. (See Geological map accompanying this application).

(e) Also 2-1/2 to 3 miles southwest are the Little Peter mine, the Day Dawn mine and the Firefly mine (Stocks-Gramlich). These are current producers. The latter mine recently sold for $900,000

(f) Two miles to the southeast is the Gramlich Group mines which recently figured in a large purchase transaction.

Par. 4 (c) - Continued.

(g) Four miles to the southeast is the Yellow Bird mine operated by the Vanadium Corporation of America which is not only a current producer but on which recent drilling has disclosed new ore bodies.

(h) Only 1-1/2 miles to the southwest recent drilling on Hop Creek has discovered a new ore deposit as shown on the Geologic map.

(i) Late in the Fall, Charles A. Steen, owner of the famous Utex Mine, moved two drill rigs into Section 28 to explore claims purchased in that area.

(j) Of primary importance also is the new ore-bodies discovered thru drilling performed by the U. S. Geological Survey during the summer and fall of 1954 in Sections 29 and 30 along La Sal Creek, 2-1/2 miles south of the applicants' claims.

Thus the combined evidence is most strongly in favor of continued mineralization on the applicants' property.

(Geologic data under Par. 4(c) above prepared by Robert G. Harding, Consulting Engineer and Geologist.)

Par. 4 (d) --

1. Access and Haulage Roads.

As may be seen from the geologic map, the access road to the property, the alternate road between La Sal, Utah, and Paradox, Colorado, takes off from Utah Highway No. 46 at a point 8 miles from the property. This road would constitute the haulage roadway for ores which would normally be delivered to the buying station (and proposed mill) at Moab, 53 miles haul or the mill at Monticello, a haul of 56 miles.

2. Supply Points.

Fairly good stocks of mining equipment and supplies are now maintained at Moab and at Grand Junction and Salt Lake City.

3. Points of Residence.

Residential housing for mining help could be established at the property, at the settlement of old LaSal 10 miles distant or at the present towns of LaSal, 18 miles, Moab 48 miles or Paradox, Colorado, 15 miles.

Par. 4 (e) --

1. Availability of manpower.

For the past 9 months the labor market at Moab has been in oversupply.

2. Materials and Supplies:

In this category there is no shortage with distribution centers at Moab and Grand Junction.

Par. 4 (e) - Continued.

3. Equipment.
Drilling rigs and other mine equipment are immediately available.

4. Water.
Water for drilling and camp use is available from springs close by or from LaSal Creek.

5. Power.
Gasoline and diesel powered equipment are readily available and serviceable. However, a high voltage electric power line was installed, only last November, along LaSal Creek. This is only 3-1/2 miles from applicants' claims.

Par. 5 (d) All Officers in the Corporation with one exception have managed or controlled management of mining operations for many years. It can be safely said that this group has 50 years of active managerial experience in the mining industry. A reputable drilling contractor will do the drilling. Robert G. Harding, Geologist, will supervise location of drill holes and interpretation of results.

Par. 6 - Estimate of Cost.

(a)	Independent Contracts:	
	(1) Drilling 25,480 feet @ $2.50	$63,700.00
	(2) Bulldozer work (roads) 72 hrs @ $12.00	864.00
(b)	Labor, Supervision, Consultants	
	(1) Supervision - - - 4 months @ $600.00	$ 2,400.00
	(2) Geological Consultant - - - 30 days @ $50.00	1,500.00
(c)	Operating Materials and Supplies - - - - - - - - - -	None
(d)	Operating Equipment.	
	(1) Rental of Golden Bear new Station Wagon 180 days @ $10.00 per day	$ 1,800.00
(e)	Rehabilitation and Repairs	None
(f)	New Buildings, Improvements, installations	None
(g)	Miscellaneous.	
	(1) 40 assays @ $3.00 each	$ 120.00
(h)	Contingencies	None
		$70,684.00

Application of:
Golden Bear Uranium, Inc.,
248 North First Street,
Reno, Nevada.

SUPPLEMENT TO Par. 6 - Cost Estimate.

DRILLING PROGRAM.

Drilling program has been set up by the company's geologist. (See map of Blue Bird Claims). This comprises three phases of drilling. The first phase contemplates 20 holes spaced 800 to 900 feet apart, (Coded A on the map) which are so located as to take advantage of the lesser cost drilling on the lower portions of the property and yet to intercept any possible mineralized channel crossing the property line.

The second phase involving 12 holes (Coded B on the map) is designed to fill in between the holes drilled under the first phase, which would cover an explored interval of 400 to 450 foot centers. However, it contemplates that no second phase holes be drilled between the interior holes unless certain favorable indications are disclosed in the holes put down under the first phase.

The third phase, for which 8000 feet of drill hole is allowed, will be utilized to explore around any drill hole that shows ore, in order to determine the extent and limits of the ore body.

SUMMARIZING DRILL PROGRAM:

First Phase, Coded A, 20 holes	11,100 feet
Second Phase, Coded B, 12 holes	6,380 feet
Third Phase, allowed	8,000 feet
Total drill hole	25,480 feet

TITLE OPINION

This office has examined the Official County Indexes and available Federal Records and the available State Records pertaining to the following unpatented lode mining claims and School Section located in Township 28 South, Range 25 and 26 East, Salt Lake Meridian, and finds the record title to the premises to be held as follows:

NAME	BOOK	PAGE	OWNERSHIP
	GROUP I.		
Ida #1	33	144	Ida Stewart Angus Stocks M. C. Stewart
Ida #2	33	144	Ida Stewart Angus Stocks M. C. Stewart
Ida #3	33	145	Ida Stewart Angus Stocks M. C. Stewart
Ida #4	33	145	Ida Stewart Angus Stocks M. C. Stewart
Ida #5	35	516	Ida Stewart Floyd Trout Angus Stocks
Ida #6	35	516	Ida Stewart Floyd Trout Angus Stocks
Compass #1	27	434	Ida Stewart M. C. Stewart
Oversight	27	434	Ida Stewart M. C. Stewart
	GROUP II.		
Blue Bird #1	103	443	Clyde M. Sterner
Blue Bird #2	103	444	Clyde M. Sterner
Blue Bird #3	103	444	Clyde M. Sterner
Blue Bird #4	103	445	Clyde M. Sterner
Blue Bird #5	103	445	Clyde M. Sterner
Blue Bird #6	103	446	Clyde M. Sterner
Blue Bird #7	103	446	Clyde M. Sterner
Blue Bird #8	103	447	Clyde M. Sterner
Blue Bird #9	103	447	Clyde M. Sterner
Blue Bird #10	103	448	Clyde M. Sterner
Blue Bird #11	103	448	Clyde M. Sterner
Blue Bird #12	103	449	Clyde M. Sterner
Red Bird #1	103	432	Clyde M. Sterner
Red Bird #2	103	433	Clyde M. Sterner
Red Bird #3	103	433	Clyde M. Sterner
Red Bird #4	103	434	Clyde M. Sterner
Red Bird #5	103	434	Clyde M. Sterner
Red Bird #6	103	435	Clyde M. Sterner
Red Bird #7	103	435	Clyde M. Sterner
Red Bird #8	103	436	Clyde M. Sterner
Red Bird #9	103	436	Clyde M. Sterner
Red Bird #10	103	437	Clyde M. Sterner
Black Bird #1	103	437	Clyde M. Sterner
Black Bird #2	103	438	Clyde M. Sterner

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Reynolds, Dixon & Gibson
Riley Building
Moab, Utah
Phone 2001

Black Bird #3	103	438	Clyde M. Sterner
Black Bird #4	103	439	Clyde M. Sterner
Black Bird #5	103	439	Clyde M. Sterner
Black Bird #6	103	440	Clyde M. Sterner
Black Bird #7	103	440	Clyde M. Sterner
Black Bird #8	103	441	Clyde M. Sterner
Black Bird #9	103	441	Clyde M. Sterner
Black Bird #10	103	442	Clyde M. Sterner
Black Bird #11	103	442	Clyde M. Sterner
Black Bird #12	103	443	Clyde M. Sterner

GROUP III.

Lots one (1), two (2), five (5), six (6), seven (7), the Southwest quarter (SW¼) of the Northeast quarter (NE ¼) of Section thirty-six (36), Township twenty-eight (28) South, Range twenty-five (25) East, Salt Lake Meridian, Ownership, John Sandburg.

I.

DEFICIENCIES IN LOCATION

The instruments of location with regard to Group I. and Group II. were not furnished to this office for examination nor was an abstract furnished to this office. This office prepared this opinion from a Memorandum Title Report showing only the instruments of record. In view of the foregoing it is impossible to make a statement concerning deficiencies in location.

With regard to Group III. the property description is consistent with regard to the June 5, 1953, lease to A. M. Stocks and Floyd Frout, also the new lease to John Sandburg, and the assignment to John Sandburg.

II.

LAND STATUS AT TIME OF LOCATION

Group I.: The premises upon which the claims in Group I. have been located were open to location at the time and the claims are not under disability or reservation for that reason.

Group II.: The premises were open to location at the time the claims were located. There is some possibility that the Southwest (SW) Corner of the Blue Bird #12 claim conflicts to a very small extent with a portion of patented ground. This cannot be told from the maps submitted to this office.

Group III.: There is no problem concerning the School Section of this matter.

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III.

RESERVATIONS CONCERNING SURVEY PLAT

Group I.: The surveyor does not indicate that location monuments, claim corners and location noticeswere in place. This title opinion therefore does not cover those matters.

Group II.: The map furnished to this office does not indicate that location monuments, corners, and location notices were in place.

Group III.: No problem is presented with regard to the School Section.

IV.

UNRECORDED INSTRUMENTS ON FILE

Group I.: This office is in possession of properly executed Quit Claim Deeds on all the claims in Group I. as follows:

a. Mennel Stewart and Ida Stewart, his wife, to A. M. Stocks and Lena Stocks, his wife, and Floyd Trout.

b. A. M. Stocks and Lena Stocks and Floyd Trout to John Sandburg, Trustee.

c. John Sandburg, Trustee, and Minnie Sandburg, his wife, to Golden Bear Uranium Company.

This office is further in possession of the following properly executed and acknowledged affidavits of identity:

a. Affidavit of Floyd Trout that M. C. Stewart who appears as locator on these claims is the same person as Mennel Stewart named as GRANTOR in a deed to A. M. Stocks and Lena Stocks.

b. Affidavit by one Floyd Trout that Angus Stocks who appears as locator is the same person as the GRANTEE A. M. Stocks on the premises.

Group III.: This office is in possession of a copy of Utah State Lease for Uranium and Vanadium #5393 pertaining to lots one (1), two (2), five (5), six (6), and seven (7), Southwest quarter (SW¼) of the Northeast quarter (NE¼) of Secton thirty-six (36) Township twenty-eight (28) South, Range twenty-five (25) East, Salt Lake Meridian, made out in the name of A. M. Stocks and Floyd Trout. An assignment of the School properties has

been signed by Lena Stocks, A. M. Stocks, and Floyd Trout; the affidavit of John Sandburg has been placed thereon and the entire assignment has been sent to the State of Utah for approval. The State of Utah, pursuant thereto, will issue a lease to John Sandburg upon the premises for the year 1955. We have in our files the original receipt of the State Land Office, # C3715 wherein John Sandburg, through payment by the Golden Bear Uranium Company, paid the yearly rental for the year 1955. It would seem that this lease is valid and subsisting at this time.

Group II.: This office is in possession of a Quit Claim Deed to these claims from Clyde M. Sterner, a single man, to A. M. Stocks. This office is also in possession of an unrecorded Quit Claim Deed from A. M. Stocks and Lena Stocks, his wife, to John Sandburgand John T. Shepard.

V.

RESERVATIONS AND QUALIFICATIONS

Group I.: There is a two and one-half per cent (2½%) perpetual gross royalty reserved to A. M. Stocks, and Lena Stocks, his wife, and Floyd Trout in the Quit Claim Deed on these premises to John Sandburg.

This opinion does not cover the matter of mineral discovery.

Group II.: There is a reservation to the GRANTORS of a two per cent (2%) gross royalty upon all ores mined and sold in the Quit Claim Deed from A. M. Stocks and Lena Stocks, his wife, to John Sandburg and John T. Shepard.

This opinion does not cover the matter of mineral discovery.

Group III. State Uranium and Vanadium leases required the LESSEE and Assigns to pay a royalty of twelve and one-half per cent (12½%) of gross amount received for or the gross value of the leased substances, including the State's royalty share of any bonus received by the LESSEE from the sale of the leased substances. This provision is operative upon this School Lease.

All instruments in this opinion referred to as being unrecorded should be recorded at the earliest opportunity.

DATED: JANUARY 14, 1955

Rod P. Dixon

Law Offices
Reynolds, Dixon & Gibson
Riley Building
Moab, Utah
Phone 2001

Licensed Professional Engineer
UTAH . . LICENSE No. 279
IDAHO . . LICENSE No. 301
WYOMING . LICENSE No. 125

ROBERT G. HARDING
CONSULTING ENGINEER
SALT LAKE CITY, UTAH — MOAB, UTAH

Residence
1100 NORTH 9TH EAST ST.
BOUNTIFUL, UTAH
PHONE—BOUNTIFUL 323

December 1, 1954.

Mr. Harold W. Taber, President,
Golden Bear Uranium, Inc.,
248 West First Street,
Reno, Nevada.

Dear Sir:

Herewith is Engineer's Report based upon personal examination and geological study of the properties of Golden Bear Uranium, Inc., and contiguous areas with special reference to the discovery and mining of Uranium ores.

Very truly yours,

Robert G. Harding

Robert G. Harding,
Consulting Engineer and Geologist.

RGH/op
Encl.

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U R A N I U M C L A I M S

Engineer's Report on

CLAIMS OF GOLDEN BEAR URANIUM, INC.,
in
SAN JUAN COUNTY, UTAH.

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U R A N I U M C L A I M S

Engineer's Report on

CLAIMS OF GOLDEN BEAR URANIUM, INC.,
in
SAN JUAN COUNTY, UTAH

1. GENERAL STATEMENT:

This report is intended to cover a preliminary study of the Uranium Claims of Golden Bear Uranium, incorporated, to determine (1) the geological features, (2) the stratigraphic formations, (3) relation to producing mines and (4) the ore possibilities of the instant claims, based upon personal examination and field observations upon this and the contiguous properties, together with accessory information pertinent to the occurrence of Uranium ores in the area.

2. PROPERTIES:

The Uranium Claims herein discussed include the following:

(1) Stocks Lease on Utah State School land including: Lots 1, 2, 5, 6 and 7, and the SE 1/4 NE 1/4, Section 36, Township 28 South, and Range 26 East - 240 acres.

(2) Ida Group including: -160 acres

Ida Claims No. 1 to No. 6, inclusive
Oversight
Compass

(3) State Line Group including: -680 acres

Black Bird No. 1 to No. 12, inclusive
Red Bird No. 1 to No. 10, inclusive
Blue Bird No. 1 to No. 12, inclusive

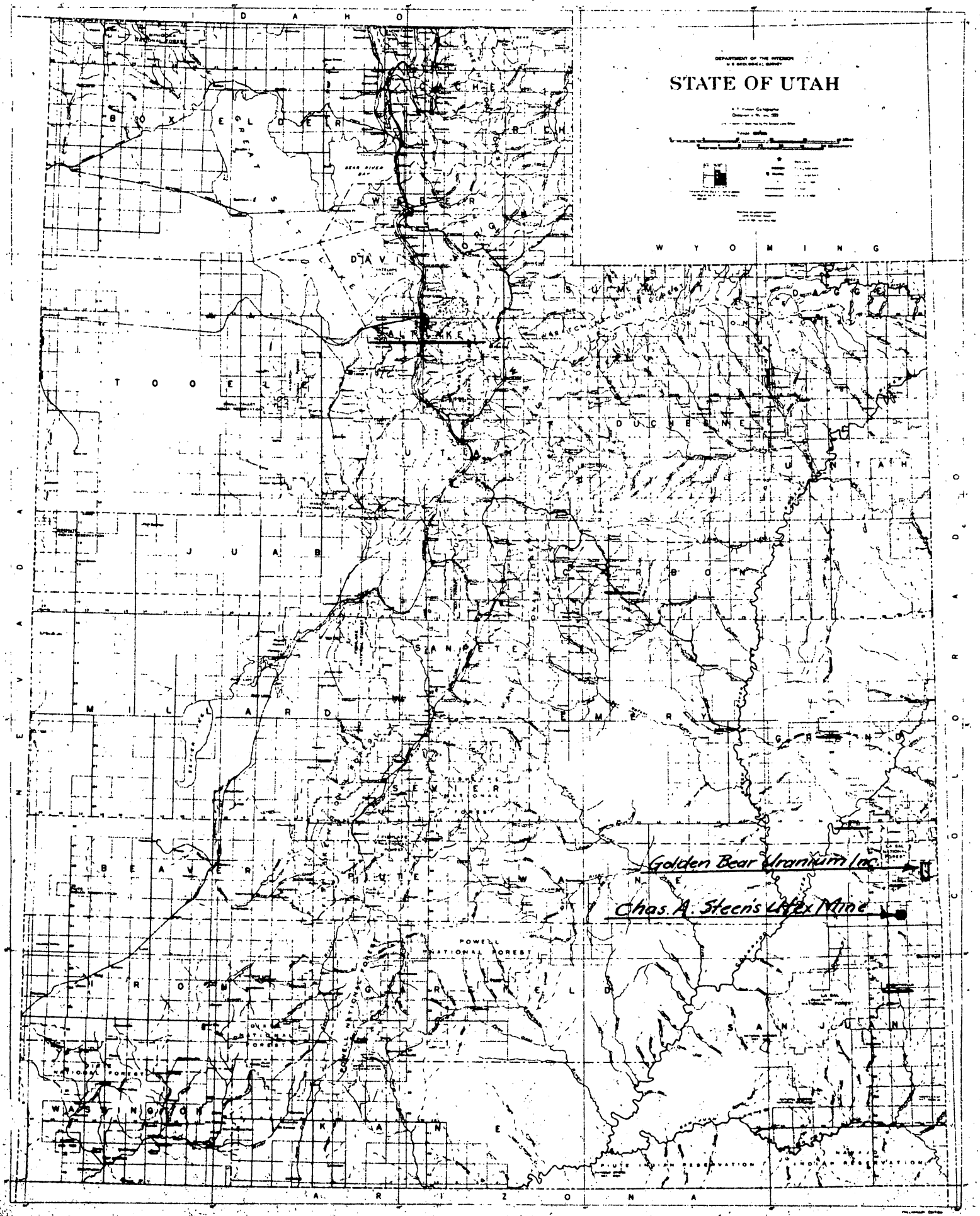


FIG. 1. GENERAL LOCATION MAP

These Claims total about 1,080 acres in all.

3. LOCATION AND ACCESS:

The Stocks Lease and Ida Group of Claims are located in Sections 25 and 36, Townahip 28 South, Range 26 East, S.L.B.& M.

The State Line Group adjoins the Colorado-Utah State line and is situated in Sections 4,5,8 and 9, Township 28 South, Range 26 East, S.L.B.& M.

The Stocks Lease lies astride Utah Highway No. 46 between the town of La Sal, Utah, and Paradox, Colorado. The property is reached from Moab, Utah, 23 miles Southward over Utah Highway No. 160 to La Sal Junction, thence Eastward 9 miles to the town of La Sal and on Eastward another 9 miles to the Stocks Lease, which is also 15 miles Westward from the town of Paradox, Colorado. The Ida Claims adjoin the Stocks Lease on the North.

The State Line Group is reached by turning North from Highway No.46, 7.4 miles Eastward from La Sal and going Northeastward over the alternate La Sal-Paradox road, a winding 8.6 miles to the point where the road crosses the South portion of the Blue Bird Claims.

4. OCCURRENCE OF URANIUM ON THE COLORADO PLATEAU:

Because certain conditions are peculiar to the production of Uranium ores, it is thought pertinent that a few facts concerning the industry will be relevant to this report.

The productive area of the United States for Uranium ores, chiefly of the "Carnotite type", is generally embraced within those portions of Southwestern Colorado and Southeastern Utah which have come to be known as the "Colorado Plateau". Because of important

new discoveries in these areas the term has also been extended to include the Uranium producing areas between the Colorado and Green Rivers, the San Rafel Swell in Emery County, and the Henry Mountains area in Wayne and Garfield Counties, Utah.

It was from the Colorado Plateau that Madame Curie obtained the"Carnotite" from which she extracted the Radium for her experiments with results that startled the scientific world. At the present writing this area has become the largest Uranium producing area in the Western Hemisphere, if not the greatest in the world.

The so-called "Colorado Plateau", is generally an elevated region of brilliantly colored sedimentary rocks broken only by the Uncompahgre Uplift in Colorado and the up-thrusting of the igneous intrusions which now form the LaSal Mountains, East of Moab, Utah, the Abajo Mountains, West of Monticello, Utah, the San Rafael Swell in Emery County and Henry Mountains in Garfield County.

Elevations in the plateau area range from about 4200 feet above sea level along the Colorado River to 8,000 feet in the higher parts of the Plateau, but most ore bodies are found at elevations from 4500 feet on the Colorado River to about 6500 feet at Steen's Utex Mine in the Shinarump formation, and from about 5,000 to 7,000 feet for ores in the Morrison Formation.

The whole area is further shaped by a succession of gentle monclines and anticlines with long axes running generally Northwest and Southeast. The anticlines have been fractured at their crests thus permitting erosion to eat downward into the underlying strata and to form long parallel valleys exposing the Uranium-

bearing sandstones and conglomerates along both sides of the anticlinal axes.

It is in these exposures that the first discoveries of Uranium ore were made in the sandstone cliffs fringing the valleys and which have been reliable producers for many years. The old type Western miner knew how to work the outcrop but his activities were limited to only those ore bodies which outcropped and he stopped when the limit of the ore-shoot was reached.

With the advent of the diamond drill the search for new ore bodies has been extended to areas back of the outcrop and, in fact, there is no place that the diamond drill can not reach and at an economic cost. It has been only recently that the geologist, the mining engineer, the driller and the claim owner or corporation, with a reasonable budget, can co-operate in effectively exploring and prospecting those areas which are geologically favorable.

That large quantities of valuable Uranium and Vanadium ores lie under the Colorado Plateau is a generally accepted view held by Engineers of the Atomic Energy Commission, by Consulting Geologists experienced in the area and by the U. S. Geological Survey which has been, and still is, conducting a great deal of reaearch throughout the area.

5. GENERAL GEOLOGY OF THE PLATEAU:

The rocks of the Colorado Plateau range in general, from Permian, through Triassic and Jurassic, and include the basal member of the Dakota sandstone of Cretaceous Age.

The Colorado River has cut its bed into the Cutler or Hermosa

formation of Permian Age. Thence in ascending order are found the brown, thin-bedded Moencopi formation, the grey Shinarump conglomerate and the variegated Chinie marls of Triassic Age; then follow the massive, vertical-jointed Wingate Sandstone, the evenly-bedded Kayenta formation, the massive, cross-bedded Navajo sandstone, the Carmel formation, the buff-colored massive Entrada sandstone, the shaly thin-bedded Summerville Formation, and the Morrison Formation, all of Jurassic Age. Then forming the resistant cap-rock over much of the area is the light yellow or grey Dakota sandstone.

6. ORE HORIZONS:

Although Uranium ore, with its associated Vanadium, is found in several geologic formations in the Colorado Plateau, only two of these are generally considered of economic importance, namely the Shinarump (or Chinle) and the Morrison Formations.

The lower of the two is the Shinarump (or Chinle) Formations of Upper Triassic Age. This is a grey sandstone and conglomerate, usually 20 to 80 feet thick, above which lies the mult-colored marls of the Chinle Formation. When the Shinarump is missing, as is the case in the Steen mine, the ore is found in the basal conglomerate member of the Chinle, known as the "Chinle D", or Mossback member, and is usually accompanied by an erosional cutting into the underlying formation.

In this formation was found the fabulous Utex Mine of Charles A. Steen, variously valued at $40,000,000 to $140,000,000; the original orebody on the T. C. Hudson property reported at $4,000,000; the Cal-Uranium Mine and Mamie Claim with $5,000,000 in ore developed;

the Jack Jones strike reported at $4,000,000 to $10,000,000 and others in Big Indian Valley. The Shinarump also furnishes the ores of Temple Mountain and those of Muddy River in the San Rafael Swell recently sold by Vernon Pick for nearly $10,000,000; the ores of the Colorado-Green River Triangle, the Seven-Mile area North of Moab and the White Canyon area West of Blanding.

The second important ore horizon is in the Salt Wash member of the Morrison Formation of Upper Jurassic Age, stratigraphically 1200 to 1500 feet above the Shinarump. This member consists of several, usually five, strata of grey sandstone 10 to 80 feet thick separated by layers of red, green and purple shales and mudstones. Uranium ore may occur in any one of the sandstone members but more commonly in the upper third of the formation.

The Morrison Formation may be considered the "old reliable". It has furnished nearly all the ore bodies of the plateau in Colorado; also those in the Yellow Cat area North of Moab; Polar Mesa Northeast of Moab; the Yellow Circle area Southeast of Moab; the Monticello area; the rich ore body of the 4-Corners Mine on the San Rafael River and the high grade ores of the Henry Mountains area. It was from this formation that Walter Gramlick shipped in April, 1954, one ton of ore which assayed 24.14% Uranium and 14.53% Vanadium for which he received $4,021.12 per ton.

The ore occurs principally as the yellow minerals Carnotite and Tyuyamunite, but most of the high grade deposits, whether in the Shinarump or in the Morrison, and where relatively protected from alteration, will carry more or less of the black Uraninite

or pitchblend. Carbonaceous material is also associated with the deposits more particularly in the Shinarump.

The orebodies occur as lenses in the surrounding sandstones. They will average 2 to 4 feet in thickness or may, as in the Steen Mine, run up to 28 feet thick. Deposits may produce from a few tons to several thousand tons each. Ore containing .15% U_3O_8 with an initial value of $16.50 per plus $6.00 haulage allowance is considered commercial ore. Most ores shipped will average from .25% to .45% Uranium Oxide with values of $38.25 and $76.00 per ton plus $6.00 haulage allowance.

Ore may be shipped to buying stations at Moab, Monticello, or Salt Lake City, Utah, or to Grand Junction, Colorado. The U. S. Atomic Energy Commission has guaranteed the present price for Uranium ores until 1962.

7. URANIUM ORE PRICES:

In order to form an idea of ore value in relation to Uranium content, a few figures are given below. In addition to payment for Uranium content the Vanadium content will normally add $6.00 to $12.00 per ton to the values below. There is also an allowance for haulage of $6.00 per ton for 100 mile haulage. The bonus is paid at the rate of $3.50 per pound of Uranium content on the first 10,000 pounds.

Assay Value U_3O_8	Without Bonus	With Bonus
.20%	$16.00	$30.00
.40%	35.00	63.00
.60%	54.50	96.50
1.00%	94.50	164.50
2.00%	194.50	334.50

8. GEOLOGY OF THE STOCKS LEASE AND IDA CLAIMS:

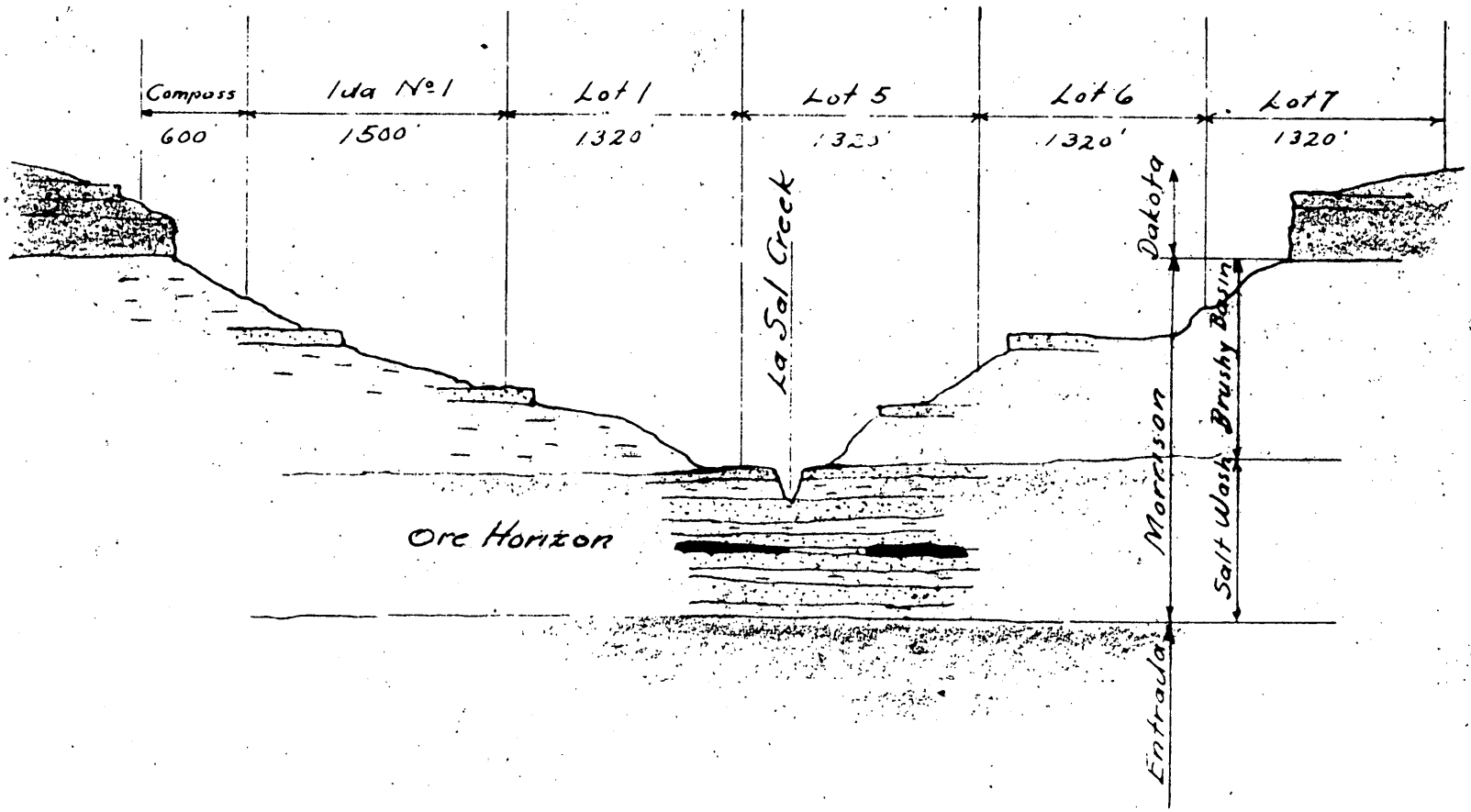


FIG 2. Geologic Cross-section thru Ida Claims and Stocks Lease.

Inasmuch as the Stocks Lease and the Ida Claims are contiguous they will be treated together. Figure 4, on back cover, is a photo-geologic map of the area prepared by the Atomic Energy Commission. Because they did not confirm their work in detail, some revisions in the geology have been made by this writer.

By reference to the map it will be seen that the Brushy Basin member of the Morrison Formation outcrops over most of the Stocks Lease and the Ida Claims. The overlying Dakota sandstone occupies the North portion of Ida No's. 3, 4, 5, and 6, and the Oversight and Compass Claims. A huge land slide on the North side of LaSal Creek and another directly opposite on the South side has displaced a block of the Dakota and Brushy Basin formations but does not appear to have affected the Salt Wash.

The ore horizon is in the Salt Wash Member of the Morrison Formation which directly underlies the Brushy Basin Member. The Salt Wash Member therefore underlies the entire area of the claims but is nowhere exposed except in the bed of LaSal Creek on the extreme East edge of Section 36.

The relative position of these strata can be seen by reference to the Geological Cross-Section, Figure 3. The ore horizon can best be explored by drilling. Drilling depths will vary from 200 feet to 450 feet when drilling through the Brushy Basin Formation, and up to 600 feet maximum from the top of the Dakota.

9. GEOLOGY OF THE STATE LINE GROUP:

The State Line Group of 34 Claims, follows generally the flat top of a long spur or mesa lying between Hop Creek on the West and

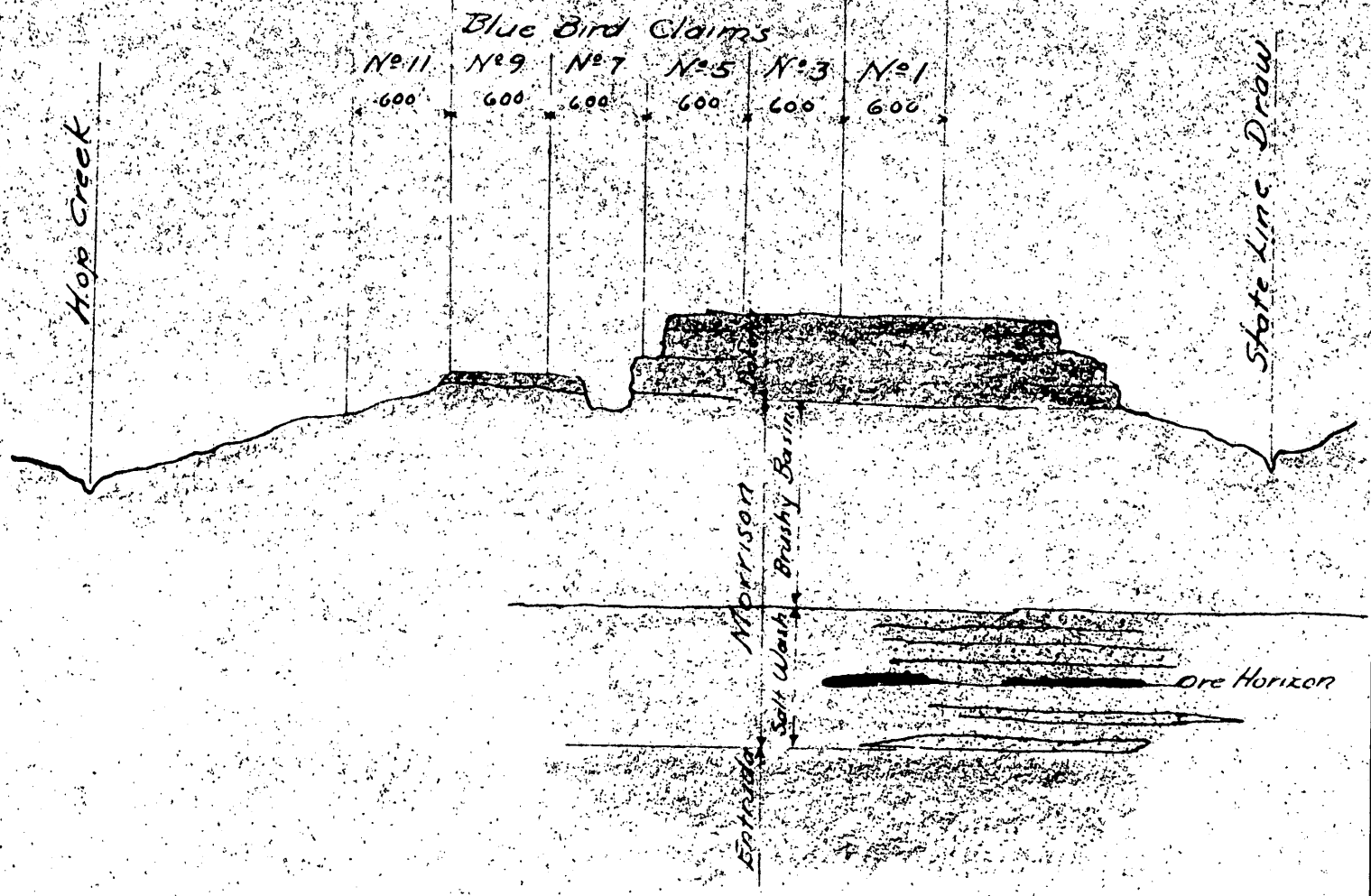


Fig. 3. Geologic Cross-Section thru State Line Group

State Line Draw on the East.

Over most of the area the Dakota sandstone forms the surface as a dip slope, dipping between 4° and 6° to the South. On both the Hop Creek side and in the State Line Draw the claims extend over to include some of the Brushy Basin Member of the Morrison Formation. The Brushy Basin Member is also exposed where small draws, not shown of the map, run up into the sides of the mesa. It is in these lower-lying areas that drilling should be first undertaken.

The ore-bearing Salt Wash Member of the Morrison Formation underlies the whole area of the claims. Drilling through the Brushy Basin will vary from 400 to 450 feet and about 600 feet from the top of the Dakota.

The mesa is covered with a merchantable stand of mature Ponderosa Pine timber which is being logged by others under a permit from the U. S. Forest Service. The Forest Service has built a main haulage road the entire length of the claims with numbrous drag roads to bring in the timber. These roadways can be used for drill locations.

10. CONTIGUOUS MINING OPERATIONS:

There is a considerable grouping of operating mines in the immediate vicinity of the Golden Bear holdings. These may be summarized briefly as follows: (See Areal Geology map on back cover)

(a) The Firefly Mine being operated by Stocks and Gramlick is situated on the North bank of LaSal Creek and only 1/4 mile East of the Stocks Lease property of the Golden Bear Uranium, Inc. This mine is currently producing

500 to 600 tons per month averaging .46% to .60% Uranium and 2% Vanadium. They are mining from a single tunnel which has been drifted into the formation for about 1600 feet. New ore bodies are being opened as the drift advances.

(b) Little Peter and Day Dawn Mines owned and worked by the younger Stocks and Gramlick boys is situated on Two-Mile Creek only 1/3 mile Northeast of the Ida No. 1 Claim. Production is about 100 tons per month.

(c) The Vanadium Queen Mine has been a steady producer for many years, first for radium, then for Vanadium and is now being operated for both Vanadium and Uranium. Production is about 200-400 tons per month. This mine is located in Sections 29 and 32, Township 29 South, Range 26 East, 1-1/4 miles East from the Golden Bear holdings.

(d) The Yellow Bird property is over the State line in Colorado, 4 miles East of the Golden Bear. This is also a steady producer and is operated by the Vanadium Corporation of America.

(e) The Gramlick Group (see map) is also in Colorado 2 miles North of the Yellow Bird and 2-1/2 miles Southeast from the State line Claims of the Golden Bear.

11. PROSPECTS UNDER DEVELOPMENT:

The entire area for many miles in all directions is fully staked and many of the claim owners are prospecting and developing their properties. Since the ore-bearing Salt Wash sandstone member of the Morrison Formation outcrops in only a few places, it is necessary

to drill down from the surface in order to prospect any certain portion of the area.

Such drilling is now underway on the South side of LaSal Creek opposite the Firefly Mine and from thence down to the Yellow Bird Property.

Several of the larger corporations, such as Silver Buckle, Continental Uranium, Pioneer Uranium, and several smaller companies are drilling in various places in the Township immediately to the South.

On the North side of LaSal Creek Charles A. Steen, owner of famous Utex Mine 8 miles to the Southwest, has, only last week, moved in two drill rigs to prospect a group of claims he recently purchased on Hideout Mesa which lies between the two portions of the Golden Bear holdings.

Hunt Oil Company has two rigs drilling for Uranium on Hop Creek and have made a new strike near the South quarter corner of Section 18 about half way between the Ida Claims and the State Line Group. It is reported that the same company is drilling West of the State Line Group and also to the South in State Line Draw where another strike has been made.

12. EXPLORATION BY U. S. GEOLOGICAL SURVEY:

Perhaps of most importance is the drilling program by the U. S. Geological Survey for the Atomic Energy Commission. This agency has conducted a drilling program in considerable detail covering the ground from the Yellow Bird Mine Westward, past the Vanadium Queen, thence to include the lower reaches of Hop Creek and Two Mile Creek and over to the East boundary of Section 36, which is now part of the Golden Bear properties.

The details of this work can not be made public but it it known that several new ore bodies were discovered as well as prolonging the known mineralization of the existing mines.

13. DRILLING ON THE GOLDEN BEAR CLAIMS:

An attempt to drill the area was commenced late in the summer by Mr. Mayhew in the vicinity of an alleged anomaly. Due to the broken character of the ground involved in the aforementioned landslide and the type of rig used, the drills failed to penetrate to the ore-bearing horizon.

Under a contract with Sprague & Henwood, Drilling Contractors of Scranton, Pennsylvania, drilling on the Stocks Lease was resumed on November 11, 1954.

A drilling program is being followed with two objectives in view; first, to explore all parts of the property and second to localize and delineate any ore body which may be discovered.

The first objective (exploratory) involves the spacing of drill holes from 500 feet to 1000 feet apart, which, in addition to the possibility of finding a commercial ore body, will also give information, both positive and negative, upon which the next stage of drilling may be more intelligently based. It is not always necessary to encounter ore in a drill hole to know that one is in the immediate proximity of an ore body.

The second stage is to drill at closer intervals around an actual discovery or close by a favorable indication to localize and delineate the extent of an ore body preliminary to mining. These holes will be spaced 50 to 100 feet apart.

To date, two drill holes have been completed on Lots No. 2 and No. 1 of the Stocks Lease in Section 36; a third hole is now

being drilled near the East side of Lot No. 1. Drill hole No. 1 was drilled to a total depth of 375 feet and showed carbonization, which is indicative of mineralization, at 341 and 344 feet. The hole would be classed as semi-favorable.

Drill Hole No. 2, in a lower portion of the area, was drilled to a depth of 255 feet. The drill cores showed a small amount of Uranium and Vanadium for 18-1/2 inches between 300 and 302 feet and good values in Uranium for 4 inches immediately below. These cores were submitted for assay. When the hole was probed with the Barnaby Gamma Ray logging equipment of the U. S. Geological Survey a mineralized horizon 3 feet thick was disclosed between 300 and 303 feet. Of this thickness .7 foot indicated a Uranium content of .54% U_3O_8.

Core samples were submitted to Smith Assay Laboratory for wet assay with the following results:

Sample No.	Depth	Thickness	U_3O_8	V_2O_5
2-1	301	18-1/2"	.058%	.22%
2-2	303	4"	.908%	2.03%

14. CONCLUSIONS AND RECOMMENDATIONS:

Based upon the foregoing findings and facts and upon the experience of other operations in the Uranium field, the following conclusions may be drawn:

(1) The proper formation, namely the Salt Wash Member of the Morrison Formation, is present under all the claims.

(2) The Salt Wash Formation as disclosed by drilling, exhibits the typical succession of conglomeratic sandstones with interbedded clays and siltstones favorable for ore deposition.

(3) Actual mineralization was found in one of the two drill holes drilled upon the Stocks Lease and the other hole indicated semi-favorable conditions.

(4) The Claims lie within an area of actually proved mining operations.

(5) Recent drilling by the U. S. Geological Survey and by private companies has extended the limits of the mineralized area and has proved additional ore bodies within the previously known ore producing areas.

(6) It may therefore be concluded that commercial bodies of Uranium and Vanadium ore will be found upon all three groups of claims owned by the Golden Bear Uranium, Inc., based upon a properly planned drilling program.

(7) It is recommended that drilling be continued to explore and test the entire area based upon a program such as that described elsewhere in this report.

Respectfully submitted:

Robert G. Harding
Consulting Engineer and Geologist.

RGH/op

REPORT ON PROPERTIES

of

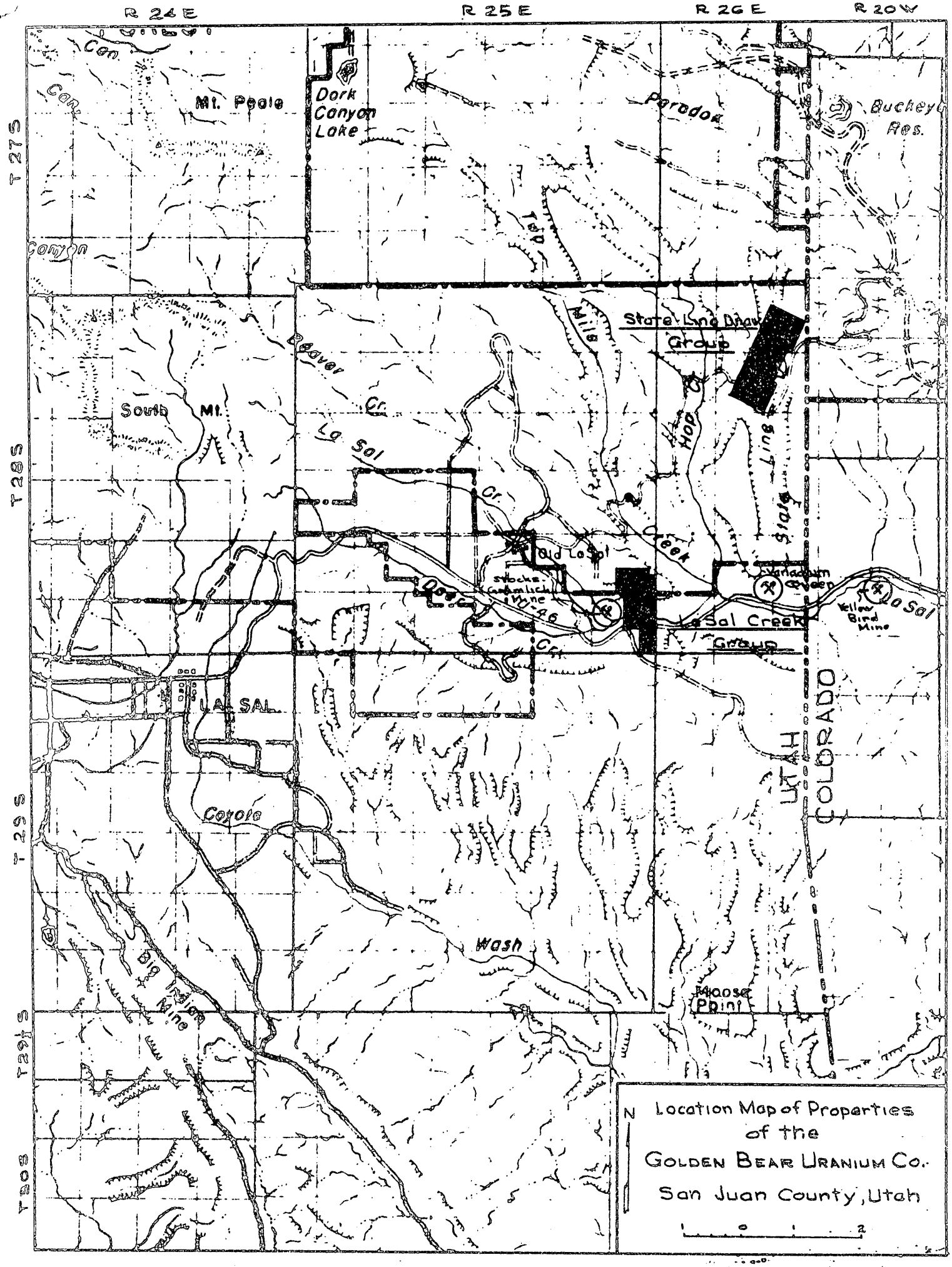
THE GOLDEN BEAR URANIUM COMPANY

by

E. J. Mayhew

Moab, Utah

September 3, 1954


R 24 E
R 25 E
R 26 E
R 20 W
T 27 S
T 28 S
T 29 S
T 29½ S
T 30 S
Mt. Peale
Dark Canyon Lake
Paradox
Buckeye Res.
Canyon
Mile
State Line Draw Group
Beaver Cr.
South Mt.
La Sal Cr.
Hog Creek
State Line
Old La Sal
Stoche-Carmichael Mine
Vanadium Queen
La Sal Creek Group
Yellow Bird Mine
La Sal
UTAH
COLORADO
Coyote
Wash
Big Triangle Mine
Moose Point
N
Location Map of Properties of the Golden Bear Uranium Co.
San Juan County, Utah
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2

REPORT ON PROPERTIES

of

THE GOLDEN BEAR URANIUM COMPANY

by

E. J. Mayhew

GENERAL STATEMENT:

The properties of Golden Bear Uranium are in San Juan County, Utah, La Sal Mining District, approximately thirty-four (34) miles south and east of Moab. (See attached location map.)

It consists of two parcels as follows: one, the Blackbird, Redbird and Bluebird group of claims, thirty-four (34) in number: The other, a group of eight lode claims and two-hundred-twenty acres of adjoining school land.

Exploration and development in this area started this summer and is increasing from day to day. There are eleven rigs operating in the area at present and more reportedly coming in.

LOCATION:

The Blackbird, Bluebird and Redbird group of thirty-four (34) claims are located in State Line Draw, T 28 S, R 26 E, sections 4, 5, 8 and 9. They can be reached by a county road going from Old La Sal across Two Mile Creek, and Hon Creek to State Line Draw to the northeast.

The La Sal Creek group, including the State School land can be reached to the east of Old La Sal by State Highway Utah No. 46, a distance of about 6 miles.

STRATIGRAPHY:

Only Sedimentary rocks of Cretaceous age outcrop in this area. The Morrison formation, and Dakota, form the surface of the plateau on the eastern flank of the La Sal Mountains. The Dakota formation is a massive conglomeratic sandstone that forms rims and cliffs along the creeks and caps the intervening divides. Here the creeks have cut their way through the Dakota and have eroded out a major portion of the underlying Morrison shale, locally called, Brushy Basin. The Brushy Basin shale is a fine grained sandy and betonitic shale of varigated and intense colors ranging from black to red. Under the floor of the valleys and the Dakota capped divides lies the Salt Wash member of the Morrison. The Salt Wash is made up of generally three predominant sandstones separated by shales. These sandstones are lenticular and of variable thickness with conglomeratic facies and a great deal of cross bedding. They frequently contain large amounts of carbonized plant remains and silicified dinosaur bones.

The Salt Wash member of the lower Morrison is the ore-bearing unit and the ore may be in any one, or all three of these sandstones.

STRUCTURE:

The Golden Bear properties lie on a high mesa on the east flank of the La Sal Mountains from which several faults radiate, cutting the Dakota and Morrison formations and forming channels of access for ore-bearing solutions that originated in the Igneous center of the laccolithic La Sal Mountains. Dips are very gentle to the east, generally on the order of 2° to 3° and, although the formations are faulted, the fault displacements

are so small as to not offset the salt wash sands more than a few feet.

ORE DEPOSITS:

The occurance of uranium ores in sedimentary rocks in the Colorado Plateau has been the subject of much study and speculation since its first discovery. There are almost as many theories as there are people but the one gaining the most support assumes that the mineralizing solutions originated in the porphyry core of the La Sal Mountains in this area and found their way to their present resting place along faults, joint cracks and zones of high porosity and permeability in the sandstones. Precipitation was caused by the presence of carbon, and/or, iron pyrite zones of the sand having sufficient porosity to form a reservoir.

Deposits of uranium is the Morrison formation pretty well can be classified by the geographic area in which they occur. For example, in the Klondike area north of Moab, the Morrison deposits are very small, thin and discontinuous; in the Monogram hill area of Paradox Valley to the east of these properties, the deposits are thick, persistent and of large tonnages; there are all classes of Morrison uranium deposits between these two extremes and they are generally characteristic of their particular geographic area.

Ore deposits are all along La Sal Creek to the south; along the west rim of Paradox Valley to the east and along Sirbad Valley to the northeast. The mines immediately south are as follwos: Stocks-Gramlich, Don Danvers and the Vanadium Queen. All these mines have large ore bodies. The Stocks-Gramlich recently completed blocking out a 30,000 ton ore body

having a vanadium content of over 2% and a uranium content of around 0.50%. Thicknesses range from two to twenty-three feet characteristically, and the vanadium content is sufficiently high to more than pay for the cost of mining. Other mines to the east, northeast and north are similar, as is Polar Mesa to the north.

There are no outcrops of the Salt Wash on this property and prospecting must be done by drilling as is the case with most discoveries on the Colorado Plateau now. Drilling should be done on a minimum of 350' centers here and it is quite probable that if such a drilling program is carried out there will be ore bodies of comparable size to the others of the area discovered by such drilling.

A drilling program is now in progress in Hop Creek on claims adjoining the Blackbird claims along their west line. Hunt Oil Company owns this adjoining property and has three drill rigs working on hone-hundred foor (100') centers, presumably blocking out ore.

Further to the south of the Blackbird group of claims in State Line Draw, toward the Vanadium Queen Mine, Hunt Oil has another discovery and is blocking out ore.

DEVELOPMENT:

Development and exploration work must be carried out by drilling and coring or by drilling and scintillation logging. Drilling depths on these properties will be from a minimum of 250' deep in the valleys to a maximum of 600' of depth from the top of the ridges.

MINING METHODS:

Mining will be by shaft since there are no outcrops of the ore bearing Salt Wash sandstone on either of the properties.

Any ore bodies found on either property will be of sufficient size that more economical and modern methods can be used than are common in the small ore body areas of the Colorado Plateau.

Vanadium content in the ore of this District is always 2% or greater and this will pay all mining costs.

CONCLUSIONS:

The northern tract of Golden Bear property is joined on the west by a property which has a new discovery still being drilled up. Likewise, a new discovery has been made a short distance to the south. There are several mines operating to the east where the ore bearing sandstones outcrop.

The facts of proximity to ore bodies coupled with the known facts that the ore bearing sands are present under this property makes the writer most positive that commercial ore is present under the Blackbird-Bluebird-Redbird group of claims and that a well-planned and executed exploration program will find one or more such ore bodies.

The State Line- La Sal Tract is the most promising virgin ground left in the Utah part of the Colorado Plateau. It joins the largest Morrison ore body in the state of Utah and exploration drilling will be comparatively shallow, (450' maximum). There are no known geologic conditions present that could prevent or alter ore deposition or accumulation on this property.

Both these tracts should produce commercially and their chances of so doing are among the best known.

E. J. Mayhew
Consulting Geologic
Engineer

AGREEMENT OF PURCHASE

THIS AGREEMENT, made and entered into at Moab, Utah, this 15th day of July, 1954, by and between A.M. STOCKS and LENA STOCKS, his wife, hereinafter referred to as FIRST PARTIES, and JOHN SANDBURG, Trustee, and JOHN T. SHEPARD, Trustee, hereinafter referred to as SECOND PARTIES,

WITNESSETH:

1. Said FIRST PARTIES do hereby sell to said SECOND PARTIES the following unpatented lode mining claims located in the County of San Juan, State of Utah, the notices of location for said mining claims being recorded with the County Recorder of said County and being incorporated into this agreement by reference:

Department of the Interior
Lands Minerals Administration
RECEIVED
MAR 3 - 1955

NAME	BOOK	PAGE
Black Bird #1 thru #12	103	437 thru 443
Blue Bird #1 thru #12	103	443 thru 449
Red Bird #1 thru #10	103	432 thru 437

2. The purchase price for the aforesaid unpatented lode mining claims is the sum of Sixty eight hundred Dollars ($6800.00). Said SECOND PARTIES have paid to said FIRST PARTIES the sum of Twenty two hundred sixty six Dollars ($2266.00), receipt of which is hereby acknowledged by said FIRST PARTIES. The further sum of Twenty two hundred sixty six Dollars ($2266.00) is due and payable and shall be paid on or before the 15th day of October, 1954; and a further amount of Twenty two hundred sixty eight Dollars ($2268.00) shall be due and payable on or before January 15, 1955.

3. There shall be reserved to said FIRST PARTIES a two per cent (2%) gross royalty upon all ores mined and sold from the premises. Said two per cent (2%) gross royalty is to be reserved by the mills purchasing said ore, and said SECOND PARTIES hereby consent to said FIRST PARTIES making demand upon said mill or mills for such payments. The aforementioned two per cent (2%) gross royalty shall be upon the basic ore price and upon

any bonus payments but shall not be paid or due upon any haulage allowance or upon any development allowance. Said royalty payment shall be due and payable on the 1st day of the month or when payment is made by the mill, which ever is sooner. Said royalty payment shall be for the full amount of royalty due upon ores shipped from said claims during the calendar month immediately preceeding the 1st day of the month.

4. From and after the execution of this agreement said SECOND PARTIES agree to pay all taxes, assessments, and charges of every kind now or hereafter assessed, levied, charged or imposed upon the said mining claims, or any interest therein, at least ten (10) days before the same shall become delinquent.

5. The parties hereto agree that time is of the essence of this agreement as to all money payments and that time is of the essence as to the performance of any of the annual labor work that may be required and that full compliance by SECOND PARTIES with all the terms of this agreement is and shall be a condition precedent to SECOND PARTIES right to a conveyance hereunder.

6. Should SECOND PARTIES fail to comply with all of the terms hereof then said FIRST PARTIES may at their option cancel and forfeit all of said SECOND PARTIES right under this agreement and all of their interest in and to the said lands, mining claims and mining rights and appurtenances, either by service upon SECOND PARTIES of a written declaration of default, forfeiture and cancellation, or by depositing in the United States mail, postage prepaid, registered mail return receipt requested, such written declaration addressed to either of said SECOND PARTIES, either at the post office address caused to have been filed with FIRST PARTIES, or if no such address be so filed, then addressed to SECOND PARTIES at Moab, Utah. Such written declaration when served or mailed shall be conclusive proof in favor of subsequent purchasers or

or encumbrancers in good faith and for valuable consideration of such default, forfeiture and cancellation. Upon such declaration of default, forfeiture and cancellation by FIRST PARTIES according to this contract provided, all rights, states, and interests hereby created or then existing in favor of SECOND PARTIES, or any one claiming under SECOND PARTIES, shall cease and become null and void; and the right of possession and all equitable and legal interests and the states of said lands, mining claims, and mining rights, with all sums of money theretofore paid by SECOND PARTIES, shall revert to, vest in and become a sole property of FIRST PARTIES; and all monies paid and any improvements erected shall be forfeited to and retained by FIRST PARTIES, and shall be liquidated damages for SECOND PARTIES failure to comply with the terms hereof and not as a penalty.

7. SECOND PARTIES shall be allowed a ten (10) day grace period from and after any money payment due within which said money payment may be made. For any default of SECOND PARTIES pertaining to any covenant other than a money payment as herein specified said SECOND PARTIES shall have thirty (30) days after receipt of written notice of said default within which to correct any such default.

8. SECOND PARTIES agree that should SECOND PARTIES desire to no longer maintain the claims as valid unpatented mining claims that SECOND PARTIES will notify FIRST PARTIES thereof in sufficient time to allow FIRST PARTIES to maintain the claims as valid and subsisting and SECOND PARTIES agree thereupon to execute the FIRST PARTIES a Quit Claim Deed thereon.

9. The address to which notices are to be sent are as follows:

FIRST PARTIES:

La Sal, Utah

SECOND PARTIES:

Ten Exchange Place

c/o Senior and Senior

Salt Lake City, Utah

10. It is agreed that the addresses herein set forth shall be sufficient and shall be deemed to be the addresses to which notices by either party to the other are to be sent, provided further that either party may from time to time designate different or additional addresses by giving to the other party notice in writing of such change.

11. It is agreed that FIRST PARTIES will deposit in escrow with the First National Bank of Moab a copy of this agreement along with proper escrow instructions, and a Quit Claim Deed of the properties herein set forth. Said instructions shall comply with this agreement and upon payment of the full pruchase price as herein specified said bank shall be empowered to deliver to SECOND PARTIES or order the aforementioned Quit Claim Deed.

12. It is understood and agreed between the parties that any mineral discovery upon the premises made during the term that this contract is in effect and under title of FIRST PARTIES as herein set out shall inure to the benefit of and become the property of the FIRST PARTIES in the event the property shall revert to FIRST PARTIES by virtue of default in this contract by by SECOND PARTIES. It is represented by FIRST PARTIES that the premises are free and clear of all liens and encumbrances as of the date of this agreement and in the event that the same shall be subject to any liens or encumbrances at this time then FIRST PARTIES agree to satisfy such liens and encumbrances or in the event that they shall be unable so to do they shall return to said SECOND PARTIES the monies paid hereunder.

WITNESS the hands of the parties to this agreement this 15th day of July, 1954.

A.M. STOCKS

LENA STOCKS, his wife

FIRST PARTIES

JOHN SANDBURG, Trustee

JOHN T. SHEPARD, Trustee

SECOND PARTIES

STATE OF UTAH)
)ss
COUNTY OF GRAND)

On this 15th day of July, 1954, personally appeared before me A.M. STOCKS and LENA STOCKS, his wife, and JOHN SANDBURG, Trustee, and JOHN T. SHEPARD, Trustee, signers of the foregoing instrument, who being first duly sworn, acknowledged to me that they executed the same.

Notary Public, Residing in
Grand County

My Commission Expires:

QUIT CLAIM DEED

A.M. STOCKS and Lena STOCKS, his wife, of Moab, Utah, GRANTORS, hereby forever quit claim to John Sandberg and John T. Shepard, of Moab, Utah, GRANTEE, for and in consideration of the sum of Ten and no/100 Dollars ($10.00) and other good and valuable consideration all of GRANTORS right, title and interest in and to the following described unpatented mining claims located in San Juan County, State of Utah, the name of said mining claims and the notices of location being filed in the office of the County Recorder of San Juan County, and being as follows, to wit:

NAME	BOOK	PAGE
Black Bird #1 thru #12	103	437 thru 443
Blue Bird #1 thru #12	103	443 thru 449
Red Bird #1 thru #10	103	432 thru 437

Together with all metals, ores, gold and silver bearing quartz, rock and earth, together with all carnotite, uranium, vanadium and fissionable bearing ores located therein; and all dips and spurs, rights, privileges and franchises, tenements, hereditaments and appurtenances thereto incident or belonging, or therewith used and enjoyed, and all the estate, right, title, interest, property, claim and demand whatsoever, legal and equitable, as well in possession as in expectancy, of the GRANTORS, of, in or to said premises, and every part thereof. Reserving to said Grantors a 2% gross royalty upon all ores mined & sold.

DEPARTMENT OF THE INTERIOR
Bureau of Mines
Minerals Administration
RECEIVED
MAR 3 - 1955

IN WITNESS WHEREOF the GRANTORS have signed their names this 30 day of June, 1954.

A.M. Stocks
A.M. STOCKS

Lena Stocks
his wife

LAW OFFICES
REYNOLDS AND DIXON
21 MAIN STREET
MOAB, UTAH
MOAB 2001

STATE OF UTAH)
) ss
COUNTY OF ~~GRAND~~ San Juan)

On this 30 day of June, 1954, personally appeared before me A.M. STOCKS and Lena STOCKS, his wife, the signers of the foregoing instrument, who being first duly sworn, acknowledged to me that they executed the same.

Notary Public, Residing in ~~Grand~~ San Juan County

My Commission Expires:
April 7, 1958

QUIT CLAIM DEED

JOHN SANDBURG and MINNIE E. SANDBURG, his wife, and JOHN T. SHEPARD and LOVELLA R. SHEPARD, his wife, of Sacramento, California, GRANTORS, hereby forever quit claim to GOLDEN BEAR URANIUM, INC. a Nevada corporation, GRANTEE, for and in consideration of the sum of TEN DOLLARS, and other good and valuable consideration all of Grantors right, title and interest in and to the following described unpatented mining claims, located in San Juan County, State of Utah, the name of said mining claims and the notices of location being filed in the office of the County Recorder of San Juan County, and being as follows, to wit:

NAME	BOOK	PAGE
Black Bird #1 thru #12	103	437 thru 443
Blue Bird #1 thru #12	103	443 thru 449
Red Bird #1 thru #10	103	432 thru 437

Together with all metals, ores, gold and silver bearing quartz, rock and earth, together with all carnotite, uranium, vanadium and fissionable bearing ores located therein; and all dips and spurs, rights, privileges and franchises, tenements, hereditaments and appurtenances thereto incident or belonging, or therewith used and enjoyed, and all the estate, right, title, interest, property, claim and demand whatsoever, legal and equitable, as well in possession as in expectancy, of the GRANTORS, of, in or to said premises, and every part thereof. Reserving to herein said GRANTORS a 10% gross royalty upon all ores mined and sold and a 2% gross royalty upon all ores mined and sold to A. M. Stocks and his wife, Lena Stocks, of La Sal, Utah.

IN WITNESS WHEREOF, THE GRANTORS have signed their names this 31st day of January, 1955.

John T. Shepard
John T. Shepard

John Sandburg
John Sanburg

Lovella R. Shepard
Lovella R. Shepard

Minnie E. Sandburg
Minnie E. Sanburg

STATE OF CALIFORNIA)
) ss
COUNTY OF SACRAMENTO)

ON this 31st day of January, 1955, personally appeared before me John Sandburg and Minnie E. Sandburg, his wife and John T. Shepard and Lovella R. Shepard, his wife, the signers of the foregoing instrument, who being first duly sworn, acknowledged to me that they executed the same.

Ward P. Sterling
Notary Public, for and in the County of Sacramento, State of California

My Commission Expires: 6-3-56

Surname 700

Ching
Ellis
Kiilsgaard
Hedges
Selfridge
Fefferman

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

JUN 24 1955

Mr. Harold W. Faber, President
Golden Bear Uranium, Incorporated
Route 1, Box 7
Oroville, California

Re: Docket No. DMEA-3708 (Uranium)
Blackbird, Redbird, and
Bluebird groups of claims
San Juan County, Utah

Dear Mr. Faber:

Your application for aid in an exploration project and other information available to us in Washington concerning your 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 indicates to us that the probability of disclosing minable ore reserves by your proposed program is not sufficiently promising to justify Government participation. We regret to advise you, under these circumstances, that your application for exploration assistance is denied.

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

Sincerely yours,

E. O. Mittendorf (Ching)

Administrator

MChing:am
6-21-55
cc to: Admr. Reading File
Operating Committee
Docket
Messrs. J. E. Crawford, Rm. 3641
T. H. Kiilsgaard, Rm. 5224
J. O. Hosted, Rm. 3210, GSA
Code 700
Mr. Ching

DMEA Field Team, Region III(2)

(Docket Copy) 700

Ching
Ellis

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

Summary of Proposed Project

June 22, 1955

Object: Denial of application for an exploration project.

Docket No.: DMEA-3708

Commodity: Uranium

Applicant: Golden Bear Uranium, Inc., A Nevada Corporation
Harold W. Taber, President
Route 1, Box 7
Oroville, California

Property: 34 unpatented claims, consisting of the Blackbird Nos. 1 - 12, Red Bird Nos. 1 - 10, and Bluebird Nos. 1 - 12, located in Sections 4,5,8, and 9, T.28 S., R.26 E., S.L.B. & M., San Juan County, Utah. Applicant is the owner.

Date of Application: February 16, 1955

Amount of Application: $70,384.00

Work Proposed: Work would be confined to the 12 Bluebird claims on the southwestern end of the property. It would consist of diamond drilling in three stages to test the Salt Wash member of the Morrison formation. First stage includes 20 holes on 800-900 foot centers. Average depth of holes about 555 feet.

Estimated Cost:

25,480 ft. diamond drilling @ $2.50/ft.	$63,700.00
72 hrs. bulldozer work @ $12.00/hr.	864.00
Supervision and consultants	3,900.00
Equipment rental	1,800.00
40 assays @ $3.00 each	120.00
Total	$70,384.00
Government Participation @ 75 percent	$52,788.00

Field Team Report: May 19, 1955. James C. Warman, U.S.G.S. and Carl Belser, U.S.B.M.

The nearest Salt Wash exposures are about two miles to the east; thus there are no outcrops of the ore-bearing sandstone on or near the subject property. Drilling depth to the favorable horizon would average in excess of 500 feet. Drill holes on adjacent properties to the east, west, and south penetrated thin, unfavorable Salt Wash sandstone and red mud-stone. The ground to the north is completely untested. Known deposits several miles to the south indicate a favorable belt trending easterly, and recent drilling has revealed the possibility of a similar trending belt lying at least a mile to the south. These favor-able trends are not in a direction to encourage drill-ing on the subject property. It is recommended that the application be denied.

Commodity Committee Members' Comments:

Geological Survey - R. D. Trace - June 17, 1955

Concurs with the Field Team recommendation of denial. The Field Team report clearly indicates the unfavor-ability of the subject area.

Bureau of Mines - John E. Crawford - June 22, 1955

Discussed with AEC representative in Washington. Concurs with the Field Team that the area is un-favorable and that the application should be denied.

Rare and Miscellaneous Metals Division - Michael Ching - June 20,1955

The unfavorable results of drilling on adjacent properties to the east, west and south, the relative-ly great depth of drilling required on the subject property, and the lack of favorable trends from known deposits some distance to the south, do not encourage exploration work on this property.

Conclusions and Recommendations:

All the available information points to the fact that the subject property is not situated in a favorable area for exploration. It is recommended that the application be denied.

Ernest Wm. Ellis

Ernest Wm. Ellis

6/24/55 gla

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

June 22, 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: Report of Examination, DMEA Docket 3708, Golden Bear Uranium, Inc., State Line group of claims, San Juan County, Utah

I have reviewed the Field Team report of examination, Golden Bear Uranium, Inc., DMEA Docket 3708; and I have discussed it with Joseph O. Hosted, Washington representative of the Atomic Energy Commission.

We concur with the recommendation of the Field Team that the application be denied.

The report has been forwarded to the Chief, Division of Minerals, in accordance with the routing slip attached thereto.

John E. Crawford
John E. Crawford

RECEIVED
JUN 24 1955

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

June 22, 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: Report of Examination, DMEA Docket 3708, Golden Bear Uranium, Inc., State Line group of claims, San Juan County, Utah

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We concur with the recommendation of the Field Team that the application be denied.

The report has been forwarded to the Chief, Division of Minerals, in accordance with the routing slip attached thereto.

John E. Crawford

RECEIVED
JUN 24 1955

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

June 22, 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: Report of Examination, DMEA Docket 3708, Golden Bear Uranium, Inc., State Line group of claims, San Juan County, Utah

I have reviewed the Field Team report of examination, Golden Bear Uranium, Inc., DMEA Docket 3708; and I have discussed it with Joseph O. Hosted, Washington representative of the Atomic Energy Commission.

We concur with the recommendation of the Field Team that the application be denied.

The report has been forwarded to the Chief, Division of Minerals, in accordance with the routing slip attached thereto.

John E. Crawford

RECEIVED
JUN 24 1955

6/20/55 gla

IN REPLY REFER TO:

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

RECEIVED
JUN 17 1955

June 17, 1955

Re: DMEA-3708
Golden Bear Uran. Co.
State Line Group
La Sal Creek Area
San Juan Co., Utah
$70,684 - Uranium

Memorandum

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

From: R. D. Trace, U. S. Geological Survey

Subject: Review of Field Team report

I concur with the recommendation for denial made by the Field Team. The report by the field examiners clearly indicates the unfavorability of the subject area.

RDTrace

R. D. Trace

IN REPLY REFER TO:

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

RECEIVED
JUN 17 1955

June 17, 1955

Re: DMEA-3708
Golden Bear Uran. Co.
State Line Group
La Sal Creek Area
San Juan Co., Utah
$70,684 - Uranium

Memorandum

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

From: R. D. Trace, U. S. Geological Survey

Subject: Review of Field Team report

I concur with the recommendation for denial made by the Field Team. The report by the field examiners clearly indicates the unfeasibility of the subject area.

R. D. Trace

RDTrace:hlm
G-6/17/55

Copy to: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
J. E. Crawford, 3641 Interior
J. O. Nosted, 3210 GSA

IN REPLY REFER TO:

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

RECEIVED
JUN 17 1955

June 17, 1955

Re: DMEA-3706
Golden Bear Uran. Co.
State Line Group
La Sal Creek Area
San Juan Co., Utah
$70,084 - Uranium

Memorandum

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

From: R. D. Trace, U. S. Geological Survey

Subject: Review of Field Team report

I concur with the recommendation for denial made by the Field Team. The report by the field examiners clearly indicates the unfavorability of the subject area.

R. D. Trace

RDTrace:hlm
G-6/17/55

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

IN REPLY REFER TO:

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

RECEIVED
JUN 17 1955

June 17, 1955

Re: DMEA-3708
Golden Bear Mun. Co.
State Line Group
in Sal Creek Area
San Juan Co., Utah
$70,000 - Uranium

Memorandum

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

From: R. D. Trace, U. S. Geological Survey

Subject: Review of Field Team report

I concur with the recommendation for denial made by the Field Team. The report by the field examiners clearly indicates the unfavorability of the subject area.

R. D. Trace

RDTrace:hlm
G-6/17/55

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

6/14/55 gla

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

RECEIVED
JUN 1 0 1955

224 New Customhouse
Denver 2, Colorado

June 6, 1955

Memorandum

To: Chairman of the Operating Committee, DMEA

From: Field Team, Region III

Subject: Report of Examination, Docket DMEA-3708 (Uranium), Golden Bear Uranium, Inc., State Line group of claims, San Juan County, Utah

Enclosed are the original and three copies of the report pertaining to the above application.

We concur in the recommendation of the field examiners that the application be denied.

W. M. Traver

W. M. Traver

Enclosures

E. N. Harshman

E. N. Harshman

Reviewed by
DMEA OPERATING COMMITTEE
6-13-55
(date)

DMEA
Date Rec'd RECEIVED
MAY 23 1955 JUN 10 1955
U.S. BUREAU OF MINES

Region III

Building 20, Room 137
Denver Federal Center
Denver 2, Colorado
May 20, 1955

Memorandum

TRANSMITTED
JUN 6 1955

To: Executive Officer, DMEA Field Team, Region III

From: John F. Shaw, Supervising Mining Engineer

Subject: DMEA 3708 (Uranium), Golden Bear Uranium, Inc., (Black Bird, Blue Bird, and Red Bird groups), San Juan County, Utah

Enclosed are the original and eleven copies of a "Summary, Conclusions, and Recommendations" by Carl Balsar, mining engineer, and James C. Warman, geologist, and the original and eleven copies of an engineering report by Carl Balsar.

The Golden Bear Uranium, Inc., applied for exploration assistance in the amount of $70,684.00 to explore the Black Bird, Blue Bird, and Red Bird groups by 25,480 feet of diamond drilling. The field examination was made on May 10, 1955, by an examining team from the Geological Survey and the Bureau of Mines. The examining team concluded that there was little likelihood of a significant amount of uranium being discovered as a result of the proposed exploration.

It is recommended that the application be denied.

John F. Shaw

John F. Shaw

Enclosures

cc 11
DMEA 3708
Chron

JFS/cm

Reviewed by
DMEA OPERATING COMMITTEE
6-13-55
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

RECEIVED
JUN 10 1955

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA 3708, Black Bird, Blue Bird, and Red Bird Groups
Golden Bear Uranium, Inc.
San Juan County, Utah

Uranium

James C. Warman, Geologist
Geological Survey

Carl Belser, Mining Engineer
Bureau of Mines

May 19, 1955

Reviewed by
DMEA OPERATING COMMITTEE
6-13-55
(date)

RECEIVED
JUN 10 1955

DMEA 3708

BLACK BIRD, BLUE BIRD, AND RED BIRD GROUPS
GOLDEN BEAR URANIUM, INC.
SAN JUAN COUNTY, UTAH

TRANSMITTED
JUN 6 1955

Summary, Conclusions, and Recommendations

By James C. Warman
Geologist
Geological Survey

Carl Belser
Mining Engineer
Bureau of Mines

Reviewed by
DMEA OPERATING COMMITTEE
6-13-55
(date)

DMEA 3708
BLACK BIRD, BLUE BIRD, AND RED BIRD GROUPS
GOLDEN BEAR URANIUM, INC.
SAN JUAN COUNTY, UTAH

SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

By James C. Warman and Carl Belser

The Golden Bear Uranium, Inc., Harold W. Taber, President, 248 North First Street, Reno, Nevada, has applied for Defense Minerals Exploration Administration assistance in a $70,~~6~~384.00 program to explore the Black Bird, Blue Bird, and Red Bird groups by 25,480 feet of diamond drilling.

A field examination was made on May 10, 1955, by an examining team from the Geological Survey and the Bureau of Mines. Robert G. Harding, consulting engineer and geologist, accompanied the examining team and represented the applicant.

The 34 unpatented claims lie in a solid block on a rolling mesa to the west of State Line Draw at altitudes estimated to range from 6,800 to 7,300 feet. The claims are in secs. 4, 5, 8, and 9, T. 28 S., R. 26 E., Salt Lake base and meridian, San Juan County, Utah.

The exposed rocks are of the Brushy Basin member of the Morrison formation of the Upper Jurassic and the Burro Canyon and Dakota formations of the Lower Cretaceous. In the vicinity of the claims the Salt Wash member of the Morrison is estimated to be 250 feet thick and the Brushy Basin member 400 feet thick. The Burro Canyon formation is about 70 feet thick and the tan colored Dakota sandstone about 40 feet thick. The known ore bodies in the area occur in the two upper rims or sandstone lenses of the Salt Wash.

Adjacent to the Blue Bird No. 11 and No. 12 claims to the west and on the Swain Homestead to the south, the Hunt Oil Company is reported to have had very poor Salt Wash sands in their recent diamond drilling. The core of a Hunt Oil Company hole east of Blue Bird No. 1 claim indicates that between the depths of 356 feet and 401 feet, the drill penetrated a 10-foot and a 15-foot lens of grey sandstone and bottomed in red mudstone.

No apparent channels were visible and all previous drilling around three sides of the applicant's proposed exploration project indicated unfavorable Salt Wash sands.

The examining team recommends that the application be denied.

DMEA 3708
BLACK BIRD, BLUE BIRD, AND RED BIRD GROUPS
GOLDEN BEAR URANIUM, INC.
SAN JUAN COUNTY, UTAH

Engineering Report

By Carl Belser
Mining Engineer
Bureau of Mines

Reviewed by
DMEA OPERATING COMMITTEE
6-13-55
(date)

DMEA 3708
BLACK BIRD, BLUE BIRD, AND RED BIRD GROUPS
GOLDEN BEAR URANIUM, INC.
SAN JUAN COUNTY, UTAH

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ILLUSTRATIONS

Figure	Follows Page
1. Location map, Black Bird, Blue Bird, and Red Bird groups, Golden Bear Uranium, Inc., San Juan County, Utah. DMEA 3708	2
2. Claim map showing proposed drilling, Black Bird, Blue Bird, and Red Bird groups, Golden Bear Uranium, Inc., San Juan County, Utah. DMEA 3708	2

RECEIVED
JUN 10 1955

DMEA 3708
BLACK BIRD, BLUE BIRD, AND RED BIRD GROUPS
GOLDEN BEAR URANIUM, INC.
SAN JUAN COUNTY, UTAH

ENGINEERING REPORT

By
Carl Belser

INTRODUCTION

Golden Bear Uranium, Inc., 248 North First Street, Reno, Nevada, submitted an application to the Defense Minerals Exploration Administration on February 16, 1955, for aid in an exploration project on the Black Bird, Blue Bird, and Red Bird groups near State Line Draw, San Juan County, Utah. The application, DMEA 3708, requested assistance in completing 25,480 feet of diamond drilling at a total estimated cost of $70,684.00 - Government participation 75 percent, or $53,013.00. This proposed exploration was to test the upper two rims of the Salt Wash member of the Morrison formation for uranium mineralization.

A joint field examination was made by a Geological Survey and Bureau of Mines examining team on May 10, 1955. The examining team, as a result of their investigation, recommended that the application be denied.

ACKNOWLEDGMENTS

Robert G. Harding, consulting engineer and geologist, accompanied the examining team and represented the applicant.

W. P. Williams, geologist, Colorado Plateau region, Geological Survey, Grand Junction, Colo., assigned James C. Warman, geologist,

to make the examination as the Geological Survey member of the team. Warman was accompanied by Wm. D. Carter, geologist, Geological Survey.

The Atomic Energy Commission was consulted regarding the area before the examination was made.

LOCATION, TOPOGRAPHY, AND CLIMATE

The Black Bird, Blue Bird, and Red Bird groups, consisting of a solid block of 34 unpatented claims, are on the west side of State Line Draw in secs. 4, 5, 8, and 9, T. 28 S., R. 26 E., Salt Lake base and meridian, San Juan County, Utah (figs. 1 and 2).

The claims are on a rolling mesa on which tan colored Dakota sandstones outcrop on the ridges. The general slope of the area is southeast.

There are several logging roads on the claims and an alternate Paradox-La Sal road traverses the south six claims of the claim block. Easterly from the property, it is 9 miles by road to Paradox, Colo., 28 miles to Uravan, Colo., 39 miles to Naturita, Colo., and 92 miles to Ridgway, Colo. To the west, it is 16 miles to La Sal, Utah, 48 miles northwest to Moab, Utah, and 84 miles northwest to Thompson, Utah. Mail and telephone facilities, groceries, gasoline, and light supplies are available at La Sal and Paradox. Mine supplies and labor are obtainable in Moab, Uravan, and Naturita. Ore buying depots are at Thompson, Moab, Uravan, and Naturita. The nearest railroad is the Denver and Rio Grande Western at both Thompson and Ridgway. Altitudes at the property range from 6,800 to 7,300 feet. Annual rainfall is somewhat greater than in most of the plateau area and snow blocks the road during the late winter months. Water for

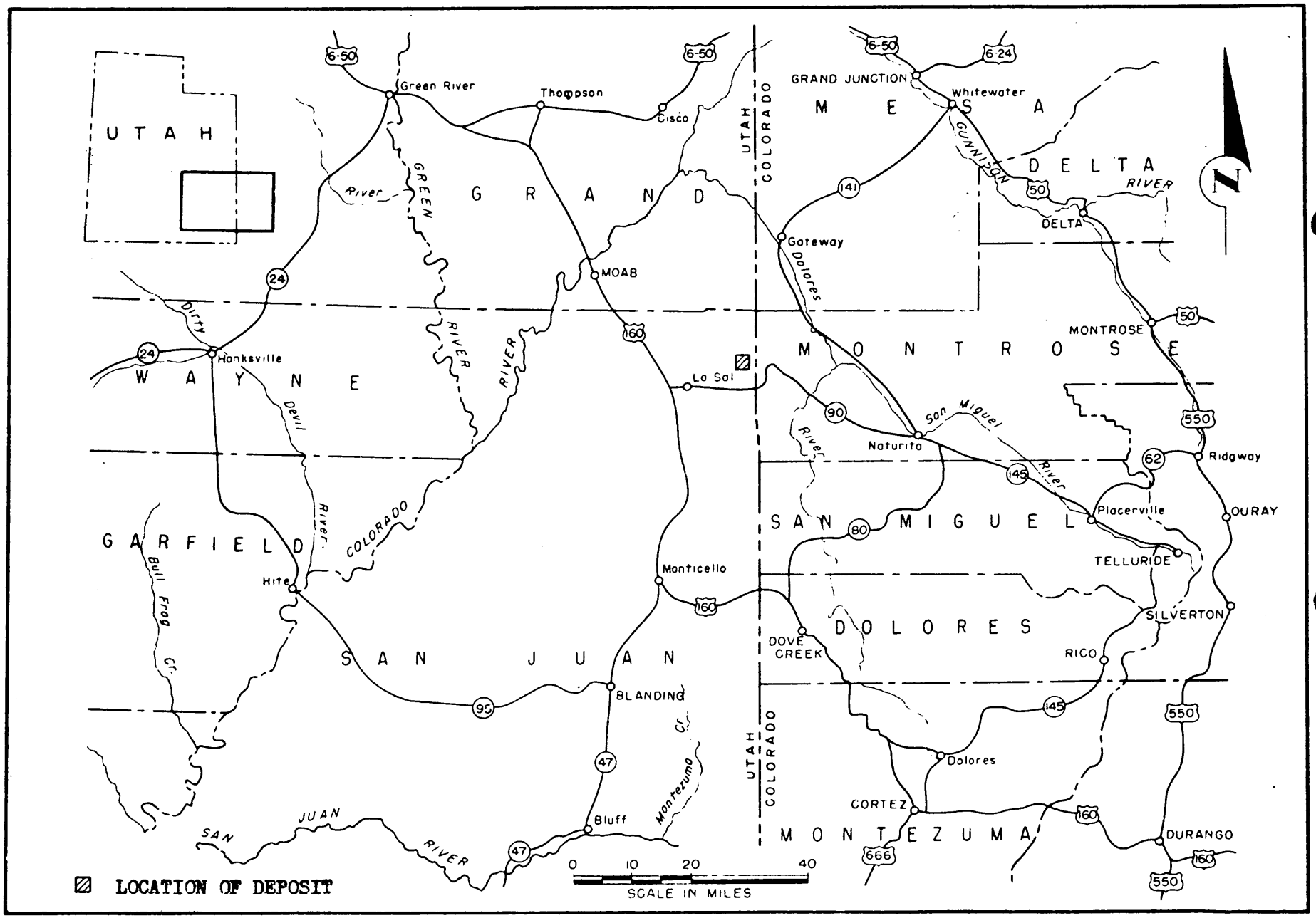


FIGURE 1 - LOCATION MAP, BLACK BIRD, BLUE BIRD, AND RED BIRD GROUPS, GOLDEN BEAR URANIUM, INC., SAN JUAN COUNTY, UTAH. DMEA 3708

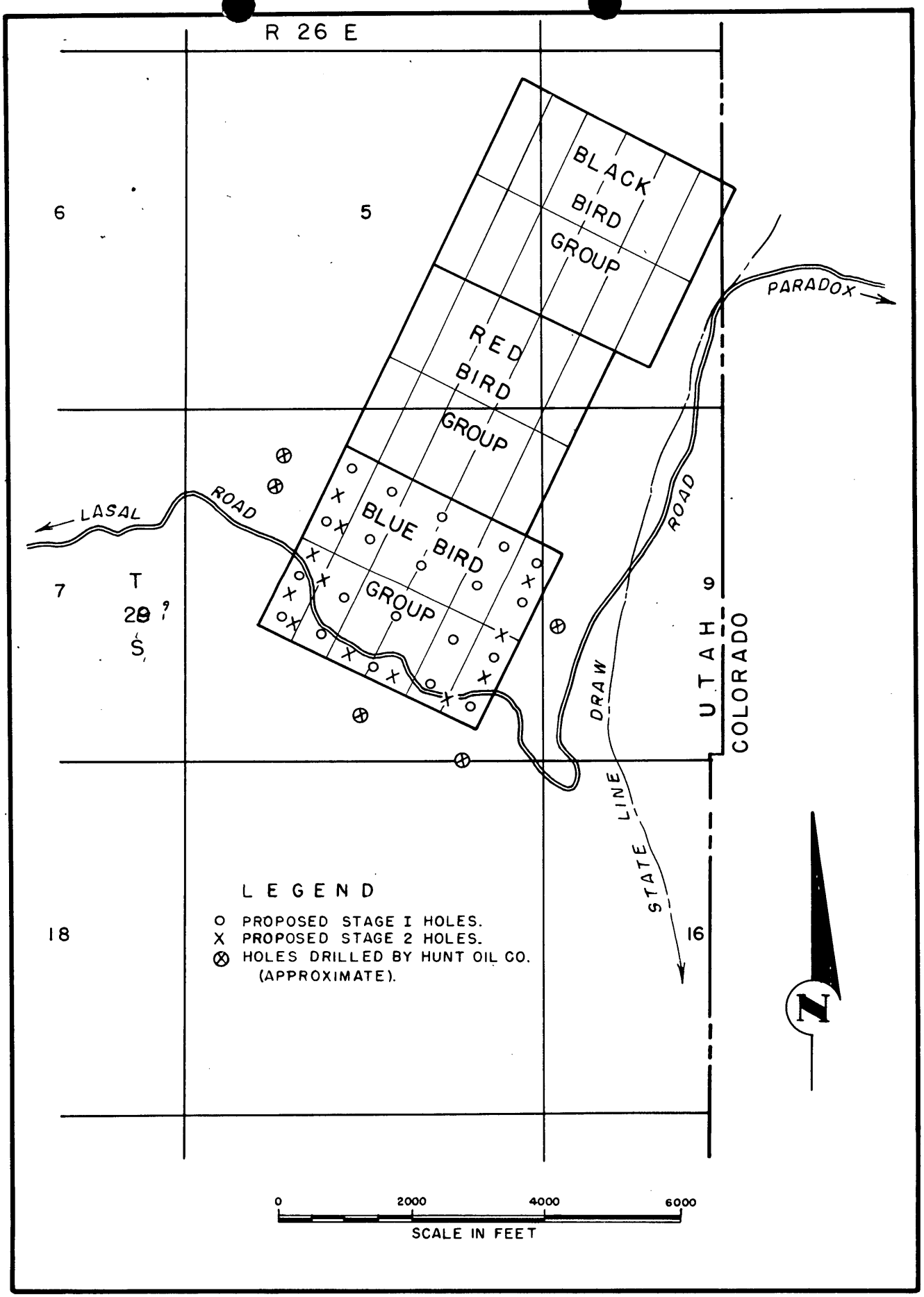


FIGURE 2-CLAIM MAP SHOWING PROPOSED DRILLING, BLACK BIRD, BLUE BIRD, AND RED BIRD GROUPS, GOLDEN BEAR URANIUM INC., SAN JUAN COUNTY, UTAH. DMEA 3708

drilling can be obtained from Hop Creek or Buckeye reservoir. Ponderosa pine and pinon abound on the property and a large saw mill is located on the road 8 miles west of the claims.

HISTORY AND PRODUCTION

Vanadium has been produced for many years from mines along La Sal Creek, about 3-1/2 miles due south of the property. Prospecting for uranium ores became of interest following the introduction of the Government buying schedule in 1948 and the entire area near the Black Bird, Blue Bird, and Red Bird group has been staked. The Little Peter, Day Dawn, Fire Fly, Uranium Queen, Gramlich group, and Yellow Bird, all producing mines, are located near La Sal Creek. The applicant's claim group, which was located in 1954, has no Salt Wash exposures, and has not been explored by drilling or other work to date. The Hunt Oil Company recently drilled on the Red Hawk claims to the west, the Swain homestead to the south and west of State Line Draw on the east with negative results (fig. 2).

OWNERSHIP AND EXTENT

The 34 unpatented claims are in secs. 4, 5, 8, and 9, T. 28 S., R. 26 E., Salt Lake base and meridian, San Juan County, Utah. They are recorded in the office of the Recorder of San Juan County, Utah, as follows:

Claim	Book	Page	Location Date	Recording Date	Locator
Red Bird #1	103	433	3/1/54	6/1/54	Clyde M. Sterner
Red Bird #2	103	433	3/1/54	6/1/54	Clyde M. Sterner
Red Bird #3	103	434	3/1/54	6/1/54	Clyde M. Sterner
Red Bird #4	103	434	3/1/54	6/1/54	Clyde M. Sterner
Red Bird #5	103	435	3/1/54	6/1/54	Clyde M. Sterner

Claim	Book	Page	Location Date	Recording Date	Locator
Red Bird #6	103	435	3/1/54	6/1/54	Clyde M. Sterner
Red Bird #7	103	436	3/1/54	6/1/54	Clyde M. Sterner
Red.Bird #8	103	436	3/1/54	6/1/54	Clyde M. Sterner
Red Bird #9	103	437	3/1/54	6/1/54	Clyde M. Sterner
Red Bird #10	103	437	3/1/54	6/1/54	Clyde M. Sterner
Black Bird #1	103	438	3/25/54	6/1/54	Clyde M. Sterner
Black Bird #2	103	438	5/25/54	6/1/54	Clyde M. Sterner
Black Bird #3	103	438	5/25/54	6/1/54	Clyde M. Sterner
Black Bird #4	103	439	5/25/54	6/1/54	Clyde M. Sterner
Black Bird #5	103	439	5/25/54	6/1/54	Clyde M. Sterner
Black Bird #6	103	440	5/25/54	6/1/54	Clyde M. Sterner
Black Bird #7	103	440	5/25/54	6/1/54	Clyde M. Sterner
Black Bird #8	103	441	5/25/54	6/1/54	Clyde M. Sterner
Black Bird #9	103	441	5/25/54	6/1/54	Clyde M. Sterner
Black Bird #10	103	442	5/25/54	6/1/54	Clyde M. Sterner
Black Bird #11	103	442	5/25/54	6/1/54	Clyde M. Sterner
Black Bird #12	103	443	5/25/54	6/1/54	Clyde M. Sterner
Blue Bird #1	103	443	5/1/54	6/1/54	Clyde M. Sterner
Blue Bird #2	103	444	5/1/54	6/1/54	Clyde M. Sterner
Blue Bird #3	103	444	5/1/54	6/1/54	Clyde M. Sterner
Blue Bird #4	103	445	5/1/54	6/1/54	Clyde M. Sterner
Blue Bird #5	103	445	5/1/54	6/1/54	Clyde M. Sterner
Blue Bird #6	103	446	5/1/54	6/1/54	Clyde M. Sterner
Blue Bird #7	103	446	5/1/54	6/1/54	Clyde M. Sterner
Blue Bird #8	103	447	5/1/54	6/1/54	Clyde M. Sterner
Blue Bird #9	103	447	5/1/54	6/1/54	Clyde M. Sterner
Blue Bird #10	103	448	5/1/54	6/1/54	Clyde M. Sterner
Blue Bird #11	103	448	5/1/54	6/1/54	Clyde M. Sterner
Blue Bird #12	103	449	5/1/54	6/1/54	Clyde M. Sterner

The same claims were recorded by Golden Bear Uranium, Inc., under Public Law 585 on September 7, 1954, and are of record in Book 179, Pages 206-222.

The original locator, Clyde M. Sterner, gave an unrecorded quit claim deed to A. M. Stocks. A quit claim deed for the property was given on July 15, 1954, by A. M. and Lena Stocks to John Sandburg and John T. Sheperd. A quit claim deed was given by John and Minnie E. Sandburg and John T. and Lovelia R. Sheperd to Golden Bear Uranium, Inc. on January 31, 1955.

DESCRIPTION OF THE DEPOSITS

Uranium mineralization occurs in the upper two sandstone rims or lenses of the Salt Wash member of the Morrison formation which appears to be dipping from 2 to 8 degrees to the south in the area near the property. Drilling a few hundred feet to the west of the Blue Bird claims indicated that no Salt Wash sandstones were present, and drilling to the south and east of these claims indicated thin sandstone lenses and red mudstones. Nothing is known concerning the Salt Wash sandstones on the property but they are assumed to be in thin lenses and unfavorable for uranium deposits.

MINABLE ORE DEPOSITS

There are no known minable ore reserves on or near the property.

PRESENT STATUS

Exploration and Development

There are no mine workings on the property and the assumed ore horizon is 360 to 600 feet below the surface.

Mining and Milling Equipment and Other Facilities

There is no mining or milling equipment on the property and the only facility consists of logging roads that could be used as access roads to drill sites.

PROPOSED EXPLORATION

The applicant proposed to explore the property by 25,480 feet of drilling on the Blue Bird claims (fig. 2). The project was to be drilled in three stages. Stage I consisted of 11,100 feet (20 holes) of diamond

drilling in holes spaced 800 to 900 feet apart. Stage II consisted of 6,380 feet (12 holes) of diamond drilling on 400- to 450-foot centers. Stage III consisted of 8,000 feet (about 15 holes) of offset drilling to delineate ore found in Stage I and Stage II drilling.

ESTIMATED COST OF PROJECT

The application, as submitted included most of the expenses to be considered in a drilling project.

Estimated Cost of Core Drilling

The applicant expects all diamond drilling and bulldozing to be let to independent contractors. No charges for labor, accounting, materials, insurance, or payroll taxes are shown and the cost of assaying is low. His total estimated cost is $300.00 in error, and his itemized costs are as follows:

Independent Contracts		
Diamond drilling. 25,480 feet at $2.50 per foot	$63,700.00	
Bulldozing roads and drill sites. 72 hours at $12.00 per hour	864.00	
Total Independent Contracts		$64,564.00
Labor and Supervision		
Labor	none	
Supervision		
Supervisor, 4 months at $600.00 per month	$ 2,400.00	
Geological consultant, 30 days at $50.00 per day	1,500.00	
Total Labor and Supervision		$ 3,900.00
Operating materials and Supplies	none	
Operating Equipment		
Depreciation	none	
Rental		
1 Golden Bear new station wagon 180 days at $10.00 per day	$ 1,800.00	
Total Operating Equipment		$ 1,800.00

Initial Rehabilitation and Repairs	none	
New Buildings, Improvements, etc.	none	
Miscellaneous		
Assaying. 40 assays at $3.00 each	$ 120.00	
Total Miscellaneous		$ 120.00
Contingencies	none	
Total estimated core drilling costs		$70,384.00
Average cost per foot for 25,480 feet of drilling		$ 2.76

SUMMARY COST OF PROJECT

Diamond drilling 25,480 feet at $2.76 a foot	$70,324.80
Government participation - 75 percent	$52,743.60

CONCLUSIONS

The nearest Salt Wash exposures are about two miles to the east. There are no shipping mines within the same radius. Holes drilled on three sides of the Blue Bird claims penetrated thin Salt Wash sandstone lenses and red mudstones. As far as can be ascertained these Salt Wash sandstones are unfavorable for the formation of sizable uranium ore deposits in this area.

RECOMMENDATIONS

The examining team recommends that the application be denied.

/mh

IN REPLY REFER TO:

DMEA
Date Rec'd.

JUN 2 1955

BUREAU OF MINES
Denver, Colorado

UNITED STATES
DEPARTMENT OF THE INTERIOR

RECEIVED
GEOLOGICAL SURVEY

Defense Minerals Exploration Administration
Denver Federal Center
Denver, Colorado

June 1, 1955

TRANSMITTED
JUN 6 1955

Memorandum

To: Field Team, Region III

From: E. N. Harshman

Subject: DMEA Docket 3708 (Uranium), Golden Bear Uranium, Incorporated, State Line group of claims, San Juan County, Utah

Enclosed are 10 copies of a geologic report by J. C. Warman, U. S. Geological Survey, covering his examination of the above subject property.

The potential ore-bearing horizon is in the Salt Wash member of the Morrison formation. It lies at depths of from 400 to 600 feet below the ground surface.

There are no outcrops of the Salt Wash "ore-bearing sandstone" on or near the applicant's property. Studies by the U. S. Geological Survey and data from private drilling to the east and west of the State Line claim group indicates that the Salt Wash sandstone in the immediate vicinity of the property is not favorable for occurrence of significant deposits of uranium ore.

Warman concludes that the proposed exploration will not result in the discovery of minable uranium deposits, and he recommends denial of the application for exploration assistance.

I concur with this recommendation.

E. N. Harshman

E. N. Harshman
Member, Field Team

Enclosures (10)

ENHarshman:arh

Reviewed by
DMEA OPERATING COMMITTEE
6-13-55
(date)

MINERAL DEPOSITS
DMEA
RECEIVED
MAY 31 1955
U. S.
GEOLOGICAL SURVEY
DENVER, COLORADO

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

May 25, 1955

TRANSMITTED
JUN 6 1955

Memorandum

To: E. N. Harshman, DMEA Field Team, Region III

From: W. P. Williams

Subject: DMEA 3708, Golden Bear Uranium, Incorporated, State Line group of claims, San Juan County, Utah

Transmitted herewith are 12 copies of a geologic report by J. C. Warman, covering a field examination of the above-referenced property. We are returning herewith the brochure covering this application.

Warman concludes that because 1) there is no outcrop of upper Salt Wash "ore-bearing sandstones" on or near the applicant's property; 2) there is no mineralization on or near the applicant's property; 3) drilling distance would be in excess of 400 feet; 4) unfavorable sandstone lies immediately east and west of the property; 5) the property is located at considerable distance from known deposits and favorable trends, that the application for DMEA assistance be denied. I concur with Warman's recommendation.

The Exploration Division of the U. S. Atomic Energy Commission, Grand Junction Operations Office was asked for assistance in evaluating the property. The Commission had no specific data about the property.

W P Williams

W. P. Williams
Geologist

WPW/mlr

Enclosures

cc: John F. Shawe

Reviewed by
DMEA OPERATING COMMITTEE
6-13-55
(date)

RECEIVED
JUN 10 1955

UNITED STATES DEPARTMENT OF THE INTERIOR

DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION
REPORT OF EXAMINATION BY FIELD TEAM
REGION IV

DMEA 3708, Golden Bear Uranium, Incorporated, State Line group of claims, San Juan County, Utah

Uranium

Geologic Report

by

J. C. Warman
U. S. Geological Survey

May 24, 1955

Reviewed by
DMEA OPERATING COMMITTEE
6-13-55
(date)

DMEA 3708

INTRODUCTION AND SUMMARY

On May 10, 1955, Carl Belser of the U. S. Bureau of Mines, W. D. Carter and J. C. Warman of the U. S. Geological Survey, and R. G. Harding, consultant engineer and geologist for the Golden Bear Uranium, Incorporated of Reno, Nevada, visited the State Line group of claims including: Black Bird Nos. 1 to 12 inclusive; Red Bird Nos. 1 to 10 inclusive; and Blue Bird Nos. 1 to 12 inclusive. The examination was limited to the southernmost Blue Bird group of claims on which the applicant proposes a drilling program.

Access is gained to the State Line claim group from U. S. Highway 160 by turning east at LaSal Junction and traveling 16.5 miles via Utah Route 46 to Redd's Ranch, then 8.5 miles via the unimproved alternate LaSal-Paradox road which runs through the Blue Bird group. The claims are accessible at all times, except for a brief period during the winter when the alternate LaSal-Paradox road may be deeply drifted with snow. The State Line group of claims is located in the Paradox Mining District in secs. 4, 5, 8, and 9, T. 28 S., R. 26 E., San Juan County, Utah. The Blue Bird group lies principally in sec. 8 (fig. 2).

GEOLOGY

The State Line group of 34 claims follows generally the flat top of a long rock spur composed of the Cretaceous Burro Canyon and Dakota sandstone formations. The spur runs southwesterly and is bordered on the west by Hop Creek and on the east by State Line Draw. The Blue Bird group of claims on which drilling is proposed by the applicant, lies across the southern tip of the spur. Over most of the area the surface is a dip slope on the sandstone, the beds of which strike N. 50°, W., and dip 3° to 4° southwest.

A vertical joint system roughly parallels the strike of the exposed sandstone beds. In the hollows and in minor draws on both sides of the spur, the Brushy Basin member of the Jurassic Morrison formation is exposed. Minimum drilling depths through the uppermost "ore - bearing sandstone" of the Salt Wash member of the Morrison formation would be approximately 400 feet for the few holes proposed to be located on the Brushy Basin slopes. The majority of the proposed holes would have to be approximately 600 feet deep to penetrate the "ore-bearing" salt Wash sandstone.

Drilling and related studies by the U. S. Geological Survey in the La Sal Creek area have revealed that uranium-vanadium deposits in the "ore-bearing sandstone" of the Salt Wash member are clustered in a favorable area that is about 2,000 feet wide and, roughly, six miles long. This favorable belt trends roughly east-northeast. Private drilling has revealed the possibility of a similar favorable belt approximately two miles north of the LaSal Creek area although a definite trend has not yet been determined. At the present time it is believed that this new belt will roughly parallel the LaSal Creek favorable area and lie at least one mile to the south of the Blue Bird claims of the applicant.

Information obtained on recent private drilling immediately to the east and to the west of the Blue Bird group of claims indicates unfavorable conditions for occurrence of uranium-vanadium ore bodies in the Salt Wash "ore-bearing sandstone".

CONCLUSIONS AND RECOMMENDATIONS

In summary it is well to note that: 1) there is no outcrop of the Salt Wash "ore-bearing sandstone" on or near the applicant's property; 2) there is no mineralization on or near the applicant's property; 3) great drilling depths are required to penetrate the Salt Wash "ore-bearing sandstone"; 4) unfavorable "ore-bearing sandstone" was found immediately east and west of the Blue Bird group of claims; 5) completely untested ground lies to the north; and 6) the distance from known deposits and the trends of favorable areas indicate that the proposed drilling program would be unlikely to find minable deposits. Therefore, it is recommended that the subject application be denied.

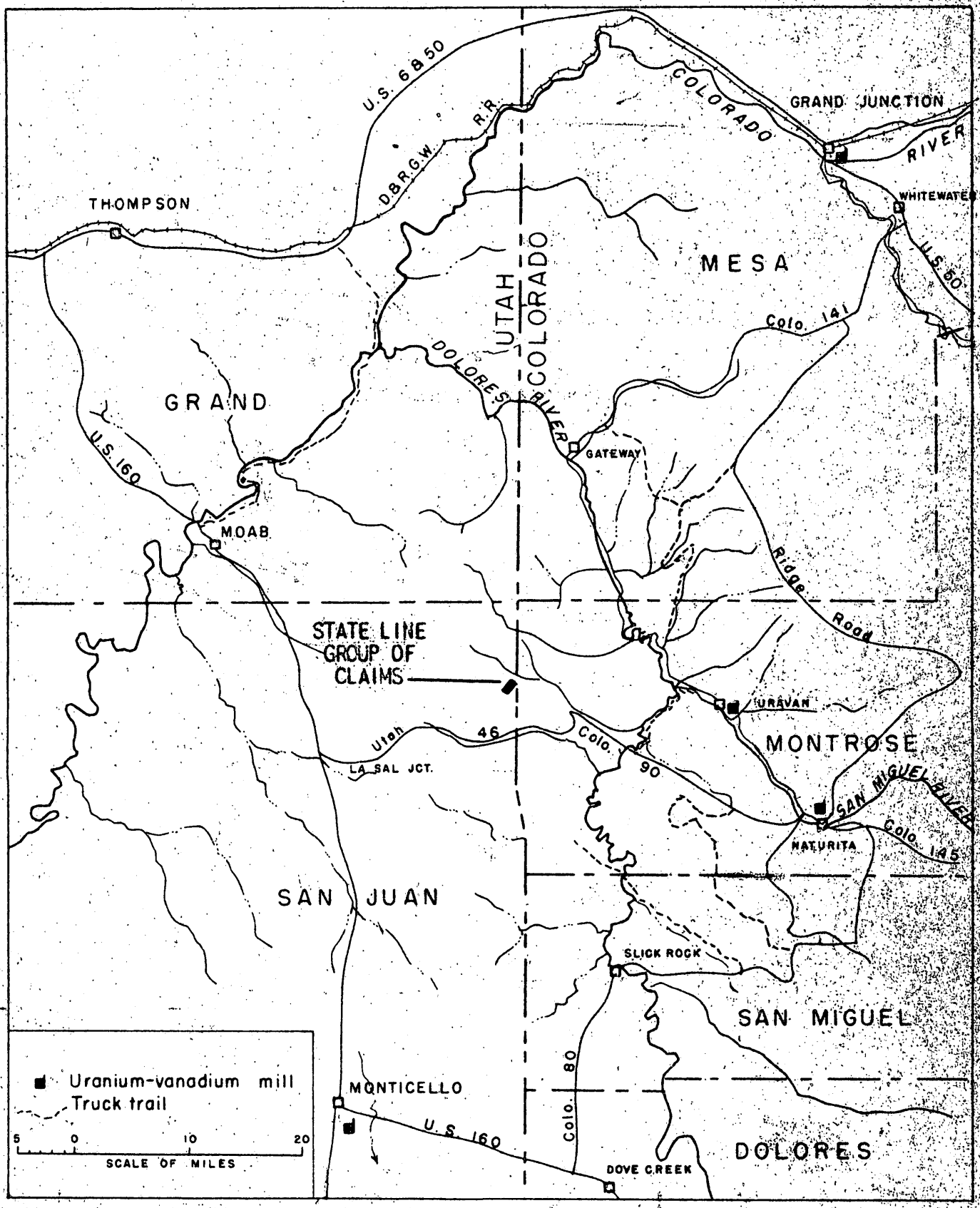
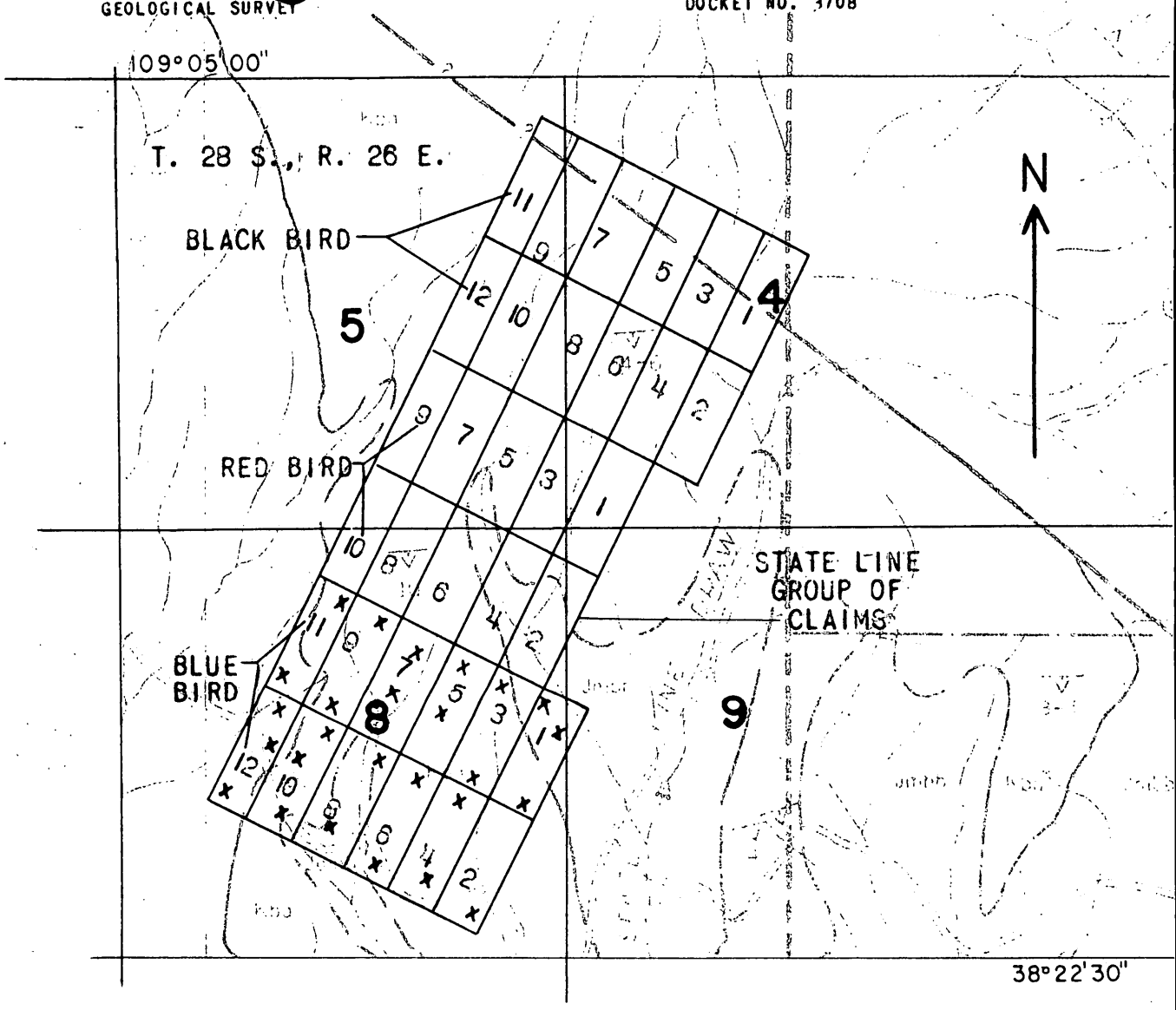


Figure 1. INDEX MAP OF PART OF THE COLORADO PLATEAU SHOWING LOCATION OF BLACK BIRD NOS. 1-12, RED BIRD NOS. 1-10, BLUE BIRD NOS. 1-12, STATE LINE GROUP OF CLAIMS, GOLDEN BEAR URANIUM INC., SAN JUAN COUNTY, UTAH

U. S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DEFENSE MINERALS EXPLORATION ADMINISTRATION
DOCKET NO. 3708



EXPLANATION

Kbd — CRETACEOUS BURRO CANYON AND DAKOTA SANDSTONE UNDIFFERENTIATED

Jmbb — JURASSIC BRUSHY BASIN MEMBER OF MORRISON FORMATION

GEOLOGIC CONTACT DASHED WHERE APPROXIMATELY LOCATED

FAULT, U, UPTHROWN SIDE, D, ~~DOWNTHROWN~~ SIDE (?) PROBABLE OR DOUBTFUL FAULT

STRIKE AND DIP OF BEDS

X — LOCATION OF PROPOSED DRILL HOLE

Note: BASE FROM U. S. GEOLOGICAL SURVEY PHOTOGEOLOGIC QUADRANGLE MAP MT. PEALE 1. LAND LINES AND CLAIM BOUNDARIES FROM APPLICANTS MAP.

2000 0 4000 FEET

Figure 2. GEOLOGIC MAP SHOWING LOCATION OF PROPOSED DRILLING ON BLACK BIRD NOS. 1-12, RED BIRD NOS. 1-10, BLUE BIRD NOS. 1-12, STATE LINE GROUP OF CLAIMS, GOLDEN BEAR URANIUM INC., SAN JUAN COUNTY, UTAH

4/25/55 rgla

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

...NT OF THE INTERIOR
...Minerals Administration
RECEIVED
APR 25 1955

224 New Customhouse
Denver 2, Colorado

April 22, 1955

Memorandum

To: Chairman of the Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 3708 (Uranium-Vanadium), Golden Bear Uranium, Inc., (Blackbird, Redbird and Bluebird groups of claims), San Juan County, Utah

This is in reply to your letter of April 7, 1955 requesting that we forward your letter to Mr. Taber.

We have just been informed by Mr. Ted Bonner, field man for Golden Bear Uranium, Inc., that Mr. Taber's correct address now is:

Mr. Harold W. Taber, President
Golden Bear Uranium, Inc.
Route 1, Box 7
Oroville, California

Your letter to Mr. Taber dated March 21, 1955 which had been returned to you has now been forwarded to Mr. Taber at his new address.

W. M. Traver

W. M. Traver

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
APR 25 1955

224 New Customhouse
Denver 2, Colorado

April 22, 1955

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From: Executive Officer, DMEA Field Team, Region III

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

224 New Customhouse
Denver 2, Colorado

April 20, 1955

Mr. Ted Bonner
P. O. Box 708
Moab, Utah

Re: Docket DMEA-3708 (Uranium-Vanadium)
Golden Bear Uranium, Inc.
Blackbird, Red Bird and Blue Bird groups
of claims, San Juan County, Utah

Dear Mr. Bonner:

Will you please advise the present address of Mr. Harold W. Taber, President of Golden Bear Uranium, Inc.

A letter to Mr. Taber addressed to 248 North 1st Street, Reno, Nevada has been returned and we will appreciate knowing his correct address.

Very truly yours,

W. M. TRAVER

W. M. Traver
Executive Officer, DMEA
Field Team, Region III

HMC:pw

cc: Subject
Chron
Chairman Op.Comm.
Harshman

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

224 New Customhouse
Denver 2, Colorado

April 20, 1955

Mr. Ted Bonner
P. O. Box 708
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Blackbird, Red Bird and Blue Bird groups
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W. M. TRAVER

W. M. Traver
Executive Officer, DMEA
Field Team, Region III

HMC:pw

cc: Subject
Chron
Chairman Op.Comm.
Harshman

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

Surname copy

Ellis
Selfridge
K Johnson
Mitchenberg

APR - 7 1955

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

Re: Docket No. DMEA-3708 (Uranium-vanadium)
Golden Bear Uranium, Inc.
Blackbird, Redbird, and Bluebird groups
of claims, San Juan County, Utah

Dear Mr. Traver:

We are forwarding herewith letter dated March 21, 1955, addressed to Mr. Harold W. Taber, President of the applicant-company, directed to the address shown on the MF-103 signed by him on February 16, 1955. You will note that a copy of the enclosed letter was forwarded to Mr. Ted Bonner, who is the field man for Golden Bear, at Box 708, Moab, Utah. However, you may wish to forward the enclosed letter to Mr. Taber. If you have received information regarding a change of address for this company, we would like to be advised in order that our records may be corrected.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (2/B)

Enclosure

EWEllis/gla
4-4-55
cc to: Admr.'s Reading File
Operating Committee
Docket
Messrs. J. E. Crawford, Rm. 3641
T. H. Kiilsgaard, Rm. 5224
J. O. Hosted, Rm. 3210, GSA
Code 700

APPROVED:

J. H. Hedges (2/B)
Member, Bureau of Mines

Thor H. Kiilsgaard (2/B)
Member, Geological Survey

R.C.S.

Surname 700

Ellis
Kulsgaard
Hodges
Lethridge
Johnson

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

Mr. Harold W. Taber, President MAR 21 1955
Golden Bear Uranium, Inc.,
248 North First Street
Reno, Nevada

Re: Docket No. DMEA-3708 (Uranium-vanadium)
Blackbird, Redbird, and Bluebird groups of claims
San Juan County, Utah

Dear Mr. Taber:

The application for assistance in exploring the subject property in San Juan County, Utah, under the captioned docket number, has been reviewed by the Rare and Miscellaneous Metals Division of the Defense Minerals Exploration Administration. It has been referred to the Executive Officer of Region III at the following address:

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

The Regional Office will contact you in regard to your project if additional information is required.

Sincerely yours,

C. O. Mittendorf
by ESF
Administrator

EWEllis:am
3-16-55
cc to: Adm. Reading File
Docket
Code 700
DMEA Field Team, Region III(2)

Copy to: Ted Bonner
Box 708
Moab, Utah

R.G.

Surname 700

Ellis
Selfridge
Kilsgaard

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

MAR 21 1955

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

Re: Docket No. DMEA-3708 (Uranium-vanadium)
Golden Bear Uranium, Inc.,
Blackbird, Redbird, and Bluebird groups of claims
San Juan County, Utah

Dear Mr. Traver:

The subject application is referred to Region III Field Team for investigation and recommendation.

Enclosed are copies of memoranda from R. D. Trace, dated March 10, and John E. Crawford, dated March 14, 1955, members of the Uranium Commodity Committee.

A copy of the application was forwarded to your office on March 4.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (2/B)

Enclosures

APPROVED:

J. H. Hedges (2/B)
Member, Bureau of Mines

Thor H. Kiilsgaard
Member, Geological Survey (2/B)

EWEllis:am
3-16-55
cc to: Admr. Reading File
Operating Committee
Docket
Messrs. J. E. Crawford, Rm. 3641
T. H. Kiilsgaard, Rm. 5224
J. O. Hosted, Rm. 3210, GSA
Code 700

R.C.G.

3/15/55 gla

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

March 14, 1955

Memorandum

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

From: Bureau of Mines Member
Uranium Commodity Committee

Subject: DMEA Docket 3708, Golden Bear Uranium, Inc.,
248 North First Street, Reno, Nevada

I have reviewed the application included in the subject docket and have discussed it with Joseph O. Hosted, representative of the Atomic Energy Commission.

We recommend that the attached application be referred to the Field Team for investigation and report, and that the Field Team be requested to discuss the application with Ernest Thurlow, Atomic Energy Commission, Salt Lake City, Utah.

J. E. Crawford
J. E. Crawford

Attachment

Copy to: Branch of Rare and Precious Metals
Division of Minerals
J. O. Hosted (2)
J. E. Crawford (2)

3/11/55 gfa

IN REPLY REFER TO:

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 10 1955

March 10, 1955

Re: DMEA-3708
Golden Bear Uran. Co.
State Line group
La Sal Creek area
San Juan Co., Utah
$70,684 - Uranium

Memorandum

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

From: R. D. Trace, U. S. Geological Survey

Subject: Review of application

The applicant proposes to drill an area where the surface is mostly the Cretaceous Burro Canyon or Dakota formations and the "ore bearing" sandstone is in the Salt Wash member, thus making most of the drill holes 600 feet or more in depth. There is no known evidence of mineralization or outcrop of the Salt Wash within a mile of the property. The nearest ore body is said to be in the southern part of sec. 18, about a mile or more southwest of the southwest end line of the property.

An evaluation of the property must be based upon the known size, habits, and trends of ore bodies and favorable ground along and adjacent to La Sal Creek. Known individual ore bodies in this area range from 200 to 20,000 tons. According to a map accompanying U.S.G.S. TEM-716, dated December 1954, two belts of favorable ground, 1000 feet or so wide, are present along La Sal Creek; the belts trend east-north-east. There is no evidence on this map to project favorable ground onto the applicant's property. The favorable ground (and ore body ?), about a mile or so southwest of the property (Colorado Lad, Silver Spur, and Rodeo claims), is cut off to the east and northeast by unfavorable ground, according to TEM-716.

The above data appear to me like insufficient evidence for such relatively deep drilling. I don't believe that we should deny the application, however, without getting comments from the Field Team. Some information, particularly from private drilling in the area, may have been obtained since TEM-716 was written. For example, what has been found on the following three claims: Colorado Lad, Silver Spur, and Rodeo Queen?

R D Trace

R. D. Trace

IN REPLY REFER TO:

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

DEPARTMENT
DeLorge Wash
MAR 10 1955

March 10, 1955

Re: DMEA-3708
Golden Bear Uran. Co.
State Line group
La Sal Creek area
San Juan Co., Utah
$70,.04 - Uranium

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RDTrace:hlm G-3/10/55
CC: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
J. E. Crawford, 3641 Interior

R. D. Trace

March 4, 1955
Subject: DMEA 3708
Re: Exploration Assistance
Blackbird, Redbird, and
Bluebird Claims

Golden Bear Uranium, Inc.
248 North First Street
Reno, Nevada

Gentlemen:

The receipt of your application dated February 16, 1955 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA 3708 and referred to the Rare and Miscellaneous 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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 3 - 1955

Box 708
Moab, Utah
February 28, 1955

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

Gentlemen:

Enclosed are quadruplicate copies of an Application for A DMEA loan for Golden Bear Uranium, Inc., 248 North First Street, Reno, Nevada.

As field man for Golden Bear, I have had responsibility with geologist, Robert G. Harding, in preparing this material. As soon as this Application is given a docket number, I would appreciate your writing me at Box 708, Moab, Utah. This Application appears to have met the approval, so far, of both the Grand Junction and Denver DMEA offices.

Sincerely,

Ted Bonner

Ted Bonner

Enclosures:
(1) MF-103 and Supplements
(2) Title Opinion
(3) Harding geology report
(4) Mayhew geology report
(5) Drilling pattern as proposed for Blue Bird claims
(6) Agreement of Purchase
(7) Quit Claim Deed from Stocks to Shepard and Sandburg
(8) Quit Claim Deed from Shepard and Sandburg to Golden Bear

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

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. 3708
Metal or Mineral Uranium, Vanadium
Date Received 3-3-55
Estimated Cost $70,884
Participation (Government %) 3

DEPARTMENT OF THE INTERIOR Defense Minerals Administration RECEIVED MAR 3 - 1955

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: Golden Bear Uranium, Inc.,
248 North First Street,
Reno, Nevada

(*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. See supplement

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

(*d*) If a partnership, add to the above statement the names and addresses of all partners. Not applicable

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 DMEA application is made on 34 Blue Bird, Blackbird and Redbird claims located in Sections 4, 5, 8 & 9, T28S, R26E, San Juan County, Utah.

(*b*) State any mine name by which the property is known. None

(*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. Not applicable

(*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. See supplement

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. None

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades. None

(*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 attached reports by Robert G. Harding and E. J. Mayhew

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

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

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

(*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 attached map and Par's. 10, 11 & 12 of Harding's report

(*c*) The work will start within 15 days and be completed within 1 year ~~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 supplement

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 see supplement

(*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.). See supplement

(*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. See supplement

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

(*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. See supplement

(*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. See supplement

(*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. See supplement

(*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. See supplement

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

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)? Yes

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

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

Explain in detail on acompanying paper. Golden Bear will rent it's new Jeep Station wagon as shown in estimate of cost. Golden Bear will furnish it's share in money from cash on hand.

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 February 16, 1955.

GOLDEN BEAR URANIUM, INC.
(Applicant)

By Harold W. Taber
Harold W. Taber, President.

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

Application of:
Golden Bear Uranium, Inc.,
248 North First Street,
Reno, Nevada.

SUPPLEMENT

Par. 1 (b) Golden Bear Uranium, Inc., is incorporated in the State of Nevada.

(c) Names and addresses of Officers:

President	Harold W. Taber, Route 1, Box 7, Oroville, California.
Vice-President	John Sandburg, 3360 "H" Street, Sacramento, California.
Secretary	Walter G. Pierce, 2007 "J" Street, Sacramento, California.
Treasurer	L. D. Carlson, 1300 - 46th Street, Sacramento, California.

Par. 3 (f) The following claims are recorded in the Office of the County Recorder, San Juan County, Monticello, Utah:

CLAIM NAME	BOOK	PAGE
Blackbird No. 1	179	206
Blackbird No. 2	179	206
Blackbird No. 3	179	207
Blackbird No. 4	179	207
Blackbird No. 5	179	208
Blackbird No. 6	179	208
Blackbird No. 7	179	209
Blackbird No. 8	179	209
Blackbird No. 9	179	210
Blackbird No. 10	179	210
Blackbird No. 11	179	211
Blackbird No. 12	179	211
Redbird No. 1	179	212
Redbird No. 2	179	212
Redbird No. 3	179	213
Redbird No. 4	179	213
Redbird No. 5	179	214

	CLAIM NAME	BOOK	PAGE
Par. 3 (f) Cont'd.	Redbird No. 6	179	214
	Redbird No. 7	179	215
	Redbird No. 8	179	215
	Redbird No. 9	179	216
	Redbird No. 10	179	216
	Bluebird No. 1	179	217
	Bluebird No. 2	179	217
	Bluebird No. 3	179	218
	Bluebird No. 4	179	218
	Bluebird No. 5	179	219
	Bluebird No. 6	179	219
	Bluebird No. 7	179	220
	Bluebird No. 8	179	220
	Bluebird No. 9	179	221
	Bluebird No. 10	179	221
	Bluebird No. 11	179	222
	Bluebird No. 12	179	222

These claims, owned by Golden Bear Uranium, Inc., are located at State Line Draw, San Juan County, Utah, in Sections 4, 5, 8 and 9, in Township 28 South, Range 26 East, S.L.B.&M. After surveying, amended location notices were filed on this group of claims on September 10, 1954.

The original location notices were recorded by A. M. Stocks as follows:

CLAIM NAME	BOOK	PAGES
Blackbird #1 thru #12	103	437 thru 443
Bluebird #1 thru #12	103	443 thru 449
Redbird #1 thru #10	103	432 thru 437

Par. 4 (c) --

1. Geologic Features of the Property. (See also accompanying Geologists' Reports).

The formation is entirely sedimentary. The claims occupy the nearly flat top of a long spur running southwesterly and bordered on each side by a small hollow roughly parallel to the side lines of the claims. Over most of the area the surface forms a dip slope on top of the Dakota sandstone, which dips 4° to 6° to the south.

In the hollows on both sides, the Brushy Basin member of the Morrison is exposed and beneath this, and running under the entire area of the property, is the ore-bearing Salt Wash Member of the Morrison Formation. In this locality the Dakota Sandstone is about 100 feet thick, the Brushy Basin Member about 400 feet, and the Salt Wash Member is about 250 feet thick. The ore shoots or lenses normally

Par. 4 (c) - Continued.

occur in the upper portion of the Salt Wash member which makes the depth of drilling from the top of the Dakota sandstone about 600 feet. Where drills will start in the Brushy Basin the depth will vary from 450 to 500 feet.

2. Mineralization and Type of Deposit.

The minerals sought for are the ores of Uranium and Vanadium. On the Colorado Plateau these ores occur as bedded, lenticular deposits in the Salt Wash Member of the Morrison Formation of Jurassic age and are normally located by drilling from the surface.

3. Reasons for Wishing to Explore this Property.

The primary reason for exploration of this particular property is for the production of Uranium ores in furtherance of defense efforts of the United States. This property was selected for development by applicant, Golden Bear Uranium, Inc., because it was considered to have a high potential for successful development.

Fortunately there is a large target area of proven producers on all sides of the property. This includes old, well established producers as well as recent operations. It should be noted that the same ore bearing strata underlie applicants' property as is found to be mineralized in these various mines. A few of these will be cited as follows:

(a) Polar Mesa district on the north operated by Vanadium Corporation of America and others has produced and is now producing a large tonnage of high grade ore.

(b) Beaver Mesa, also to the north, is being extensively drilled and several properties are in production.

(c) The Lion Mine due eastward has been operated by the Vanadium Corporation of America for several years.

(d) Three miles due south the Vanadium Queen and Hercules mines have operated consistently for many years. (See Geological map accompanying this application).

(e) Also 2-1/2 to 3 miles southwest are the Little Peter mine, the Day Dawn mine and the Firefly mine (Stocks-Gramlich). These are current producers. The latter mine recently sold for $900,000

(f) Two miles to the southeast is the Gramlich Group mines which recently figured in a large purchase transaction.

Par. 4 (c) - Continued.

(g) Four miles to the southeast is the Yellow Bird mine operated by the Vanadium Corporation of America which is not only a current producer but on which recent drilling has disclosed new ore bodies.

(h) Only 1-1/2 miles to the southwest recent drilling on Hop Creek has discovered a new ore deposit as shown on the Geologic map.

(i) Late in the Fall, Charles A. Steen, owner of the famous Utex Mine, moved two drill rigs into Section 28 to explore claims purchased in that area.

(j) Of primary importance also is the new ore-bodies discovered thru drilling performed by the U. S. Geological Survey during the summer and fall of 1954 in Sections 29 and 30 along La Sal Creek, 2-1/2 miles south of the applicants' claims.

Thus the combined evidence is most strongly in favor of continued mineralization on the applicants' property.

(Geologic data under Par. 4(c) above prepared by Robert G. Harding, Consulting Engineer and Geologist.)

Par. 4 (d) --

1. Access and Haulage Roads.

As may be seen from the geologic map, the access road to the property, the alternate road between La Sal, Utah, and Paradox, Colorado, takes off from Utah Highway No. 46 at a point 8 miles from the property. This road would constitute the haulage roadway for ores which would normally be delivered to the buying station (and proposed mill) at Moab, 53 miles haul or the mill at Monticello, a haul of 56 miles.

2. Supply Points.

Fairly good stocks of mining equipment and supplies are now maintained at Moab and at Grand Junction and Salt Lake City.

3. Points of Residence.

Residential housing for mining help could be established at the property, at the settlement of old LaSal 10 miles distant or at the present towns of LaSal, 16 miles, Moab 48 miles or Paradox, Colorado, 15 miles.

Par. 4 (e) --

1. Availability of manpower.

For the past 9 months the labor market at Moab has been in oversupply.

2. Materials and Supplies:

In this category there is no shortage with distribution centers at Moab and Grand Junction.

Par. 4 (e) - Continued.

3. Equipment.
Drilling rigs and other mine equipment are immediately available.

4. Water.
Water for drilling and camp use is available from springs close by or from LaSal Creek.

5. Power.
Gasoline and diesel powered equipment are readily available and serviceable. However, a high voltage electric power line was installed, only last November, along LaSal Creek. This is only 3-1/2 miles from applicants' claims.

Par. 5 (d) All Officers in the Corporation with one exception have managed or controlled management of mining operations for many years. It can be safely said that this group has 50 years of active managerial experience in the mining industry. A reputable drilling contractor will do the drilling. Robert G. Harding, Geologist, will supervise location of drill holes and interpretation of results.

Par. 6 - Estimate of Cost.

(a)	Independent Contracts:	
	(1) Drilling 25,480 feet @ $2.50	$63,700.00
	(2) Bulldozer work (roads) 72 hrs @ $12.00	864.00
(b)	Labor, Supervision, Consultants	
	(1) Supervision - - - 4 months @ $600.00	$ 2,400.00
	(2) Geological Consultant - - - 30 days @ $50.00	1,500.00
(c)	Operating Materials and Supplies - - - - - - - - - -	None
(d)	Operating Equipment.	
	(1) Rental of Golden Bear new Station Wagon 180 days @ $10.00 per day	$ 1,800.00
(e)	Rehabilitation and Repairs	None
(f)	New Buildings, improvements, installations	None
(g)	Miscellaneous.	
	(1) 40 assays @ $3.00 each	$ 120.00
(h)	Contingencies	None
		$70,~~6~~84.00
		3

SUPPLEMENT TO Par. 6 - Cost Estimate.

DRILLING PROGRAM.

Drilling program has been set up by the company's geologist. (See map of Blue Bird Claims). This comprises three phases of drilling. The first phase contemplates 20 holes spaced 800 to 900 feet apart, (Coded A on the map) which are so located as to take advantage of the lesser cost drilling on the lower portions of the property and yet to intercept any possible mineralized channel crossing the property line.

The second phase involving 12 holes (Coded B on the map) is designed to fill in between the holes drilled under the first phase, which would cover an explored interval of 400 to 450 foot centers. However, it contemplates that no second phase holes be drilled between the interior holes unless certain favorable indications are disclosed in the holes put down under the first phase.

The third phase, for which 8000 feet of drill hole is allowed, will be utilized to explore around any drill hole that shows ore, in order to determine the extent and limits of the ore body.

SUMMARIZING DRILL PROGRAM:

First Phase, Coded A, 20 holes	11,100 feet
Second Phase, Coded B, 12 holes	6,380 feet
Third Phase, allowed	8,000 feet
Total drill hole	25,480 feet

TITLE OPINION

This office has examined the Official County Indexes and available Federal Records and the available State Records pertaining to the following unpatented lode mining claims and School Section located in Township 28 South, Range 25 and 26 East, Salt Lake Meridian, and finds the record title to the premises to be held as follows:

NAME	BOOK	PAGE	OWNERSHIP
	GROUP I.		
Ida #1	33	144	Ida Stewart Angus Stocks M. C. Stewart
Ida #2	33	144	Ida Stewart Angus Stocks M. C. Stewart
Ida #3	33	145	Ida Stewart Angus Stocks M. C. Stewart
Ida #4	33	145	Ida Stewart Angus Stocks M. C. Stewart
Ida #5	35	516	Ida Stewart Floyd Trout Angus Stocks
Ida #6	35	516	Ida Stewart Floyd Trout Angus Stocks
Compass #1	27	434	Ida Stewart M. C. Stewart
Oversight	27	434	Ida Stewart M. C. Stewart
	GROUP II.		
Blue Bird #1	103	443	Clyde M. Sterner
Blue Bird #2	103	444	Clyde M. Sterner
Blue Bird #3	103	444	Clyde M. Sterner
Blue Bird #4	103	445	Clyde M. Sterner
Blue Bird #5	103	445	Clyde M. Sterner
Blue Bird #6	103	446	Clyde M. Sterner
Blue Bird #7	103	446	Clyde M. Sterner
Blue Bird #8	103	447	Clyde M. Sterner
Blue Bird #9	103	447	Clyde M. Sterner
Blue Bird #10	103	448	Clyde M. Sterner
Blue Bird #11	103	448	Clyde M. Sterner
Blue Bird #12	103	449	Clyde M. Sterner
Red Bird #1	103	432	Clyde M. Sterner
Red Bird #2	103	433	Clyde M. Sterner
Red Bird #3	103	433	Clyde M. Sterner
Red Bird #4	103	434	Clyde M. Sterner
Red Bird #5	103	434	Clyde M. Sterner
Red Bird #6	103	435	Clyde M. Sterner
Red Bird #7	103	435	Clyde M. Sterner
Red Bird #8	103	436	Clyde M. Sterner
Red Bird #9	103	436	Clyde M. Sterner
Red Bird #10	103	437	Clyde M. Sterner
Black Bird #1	103	437	Clyde M. Sterner
Black Bird #2	103	438	Clyde M. Sterner

Law Offices
Reynolds, Dixon & Gibson
Riley Building
Moab, Utah
Phone 2001

Black Bird #3	103	438	Clyde M. Sterner
Black Bird #4	103	439	Clyde M. Sterner
Black Bird #5	103	439	Clyde M. Sterner
Black Bird #6	103	440	Clyde M. Sterner
Black Bird #7	103	440	Clyde M. Sterner
Black Bird #8	103	441	Clyde M. Sterner
Black Bird #9	103	441	Clyde M. Sterner
Black Bird #10	103	442	Clyde M. Sterner
Black Bird #11	103	442	Clyde M. Sterner
Black Bird #12	103	443	Clyde M. Sterner

GROUP III.

Lots one (1), two (2), five (5), six (6), seven (7), the Southwest quarter (SW¼) of the Northeast quarter (NE ¼) of Section thirty-six (36), Township twenty-eight (28) South, Range twenty-five (25) East, Salt Lake Meridian, Ownership, John Sandburg.

I.

DEFICIENCIES IN LOCATION

The instruments of location with regard to Group I. and Group II. were not furnished to this office for examination nor was an abstract furnished to this office. This office prepared this opinion from a Memorandum Title Report showing only the instruments of record. In view of the foregoing it is impossible to make a statement concerning deficiencies in location.

With regard to Group III. the property description is consistent with regard to the June 5, 1953, lease to A. M. Stocks and Floyd Prout, also the new lease to John Sandburg, and the assignment to John Sandburg.

II.

LAND STATUS AT TIME OF LOCATION

Group I.: The premises upon which the claims in Group I. have been located were open to location at the time and the claims are not under disability or reservation for that reason.

Group II.: The premises were open to location at the time the claims were located. There is some possibility that the Southwest (SW) Corner of the Blue Bird #12 claim conflicts to a very small extent with a portion of patented ground. This cannot be told from the maps submitted to this office.

Group III.: There is no problem concerning the School Section of this matter.

Law Offices
Reynolds, Dixon & Gibson
Riley Building
Moab, Utah
Phone 2001

III.

RESERVATIONS CONCERNING SURVEY PLAT

Group I.: The surveyor does not indicate that location monuments, claim corners and location noticeswere in place. This title opinion therefore does not cover those matters.

Group II.: The map furnished to this office does not indicate that location monuments, corners, and location notices were in place.

Group III.: No problem is presented with regard to the School Section.

IV.

UNRECORDED INSTRUMENTS ON FILE

Group I.: This office is in possession of properly executed Quit Claim Deeds on all the claims in Group I. as follows:

a. Mennel Stewart and Ida Stewart, his wife, to A. M. Stocks and Lena Stocks, his wife, and Floyd Trout.

b. A. M. Stocks and Lena Stocks and Floyd Trout to John Sandburg, Trustee.

c. John Sandburg, Trustee, and Minnie Sandburg, his wife, to Golden Bear Uranium Company.

This office is further in possession of the following properly executed and acknowledged affidavits of identity:

a. Affidavit of Floyd Trout that M. C. Stewart who appears as locator on these claims is the same person as Mennel Stewart named as GRANTOR in a deed to A. M. Stocks and Lena Stocks.

b. Affidavit by one Floyd Trout that Angus Stocks who appears as locator is the same person as the GRANTEE A. M. Stocks on the premises.

Group III.: This office is in possession of a copy of Utah State Lease for Uranium and Vanadium #5393 pertaining to lots one (1), two (2), five (5), six (6), and seven (7), Southwest quarter (SW¼) of the Northeast quarter (NE¼) of Secton thirty-six (36) Township twenty-eight (28) South, Range twenty-five (25) East, Salt Lake Meridian, made out in the name of A. M. Stocks and Floyd Trout. An assignment of the School properties has

been signed by Lena Stocks, A. M. Stocks, and Floyd Trout; the affidavit of John Sandburg has been placed thereon and the entire assignment has been sent to the State of Utah for approval. The State of Utah, pursuant thereto, will issue a lease to John Sandburg upon the premises for the year 1955. We have in our files the original receipt of the State Land Office, # C3715 wherein John Sandburg, through payment by the Golden Bear Uranium Company, paid the yearly rental for the year 1955. It would seem that this lease is valid and subsisting at this time.

Group II.: This office is in possession of a Quit Claim Deed to these claims from Clyde M. Sterner, a single man, to A. M. Stocks. This office is also in possession of an unrecorded Quit Claim Deed from A. M. Stocks and Lena Stocks, his wife, to John Sandburgand John T. Shepard.

V.

RESERVATIONS AND QUALIFICATIONS

Group I.: There is a two and one-half per cent (2½%) perpetual gross royalty reserved to A. M. Stocks, and Lena Stocks, his wife, and Floyd Trout in the Quit Claim Deed on these premises to John Sandburg.

This opinion does not cover the matter of mineral discovery.

Group II.: There is a reservation to the GRANTORS of a two per cent (2%) gross royalty upon all ores mined and sold in the Quit Claim Deed from A. M. Stocks and Lena Stocks, his wife, to John Sandburg and John T. Shepard.

This opinion does not cover the matter of mineral discovery.

Group III. State Uranium and Vanadium leases required the LESSEE and Assigns to pay a royalty of twelve and one-half per cent (12½%) of gross amount received for or the gross value of the leased substances, including the State's royalty share of any bonus received by the LESSEE from the sale of the leased substances. This provision is operative upon this School Lease.

All instruments in this opinion referred to as being unrecorded should be recorded at the earliest opportunity.

DATED: JANUARY 14, 1955

Rod P. Dixon

Law Offices
Reynolds, Dixon & Gibson
Riley Building
Moab, Utah
Phone 2001

Licensed Professional Engineer
UTAH . . . LICENSE No. 279
IDAHO . . . LICENSE No. 301
WYOMING . LICENSE No. 125

ROBERT G. HARDING
CONSULTING ENGINEER
SALT LAKE CITY, UTAH MOAB, UTAH

Residence
1100 NORTH 9TH EAST ST.
BOUNTIFUL, UTAH
PHONE—BOUNTIFUL 323

December 1, 1954.

Mr. Harold W. Taber, President,
Golden Bear Uranium, Inc.,
248 West First Street,
Reno, Nevada.

Dear Sir:

Herewith is Engineer's Report based upon personal examination and geological study of the properties of Golden Bear Uranium, Inc., and contiguous areas with special reference to the discovery and mining of Uranium ores.

Very truly yours,

Robert G. Harding

Robert G. Harding,
Consulting Engineer and Geologist.

RGH/op
Encl.

U R A N I U M C L A I M S

Engineer's Report on

CLAIMS OF GOLDEN BEAR URANIUM, INC.,
in
SAN JUAN COUNTY, UTAH.

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U R A N I U M C L A I M S

Engineer's Report on

CLAIMS OF GOLDEN BEAR URANIUM, INC.,
in
SAN JUAN COUNTY, UTAH

1. GENERAL STATEMENT:

This report is intended to cover a preliminary study of the Uranium Claims of Golden Bear Uranium, incorporated, to determine (1) the geological features, (2) the stratigraphic formations; (3) relation to producing mines and (4) the ore possibilities of the instant claims, based upon personal examination and field observations upon this and the contiguous properties, together with accessory information pertinent to the occurrence of Uranium ores in the area.

2. PROPERTIES:

The Uranium Claims herein discussed include the following:

(1) Stocks Lease on Utah State School land including: Lots 1, 2, 5, 6 and 7, and the SE 1/4 NE 1/4, Section 36, Township 28 South, and Range 26 East - 240 acres.

(2) Ida Group including: -160 acres

Ida Claims No. 1 to No. 6, inclusive
Oversight
Compass

(3) State Line Group including: -680 acres

Black Bird No. 1 to No. 12, inclusive
Red Bird No. 1 to No. 10, inclusive
Blue Bird No. 1 to No. 12, inclusive

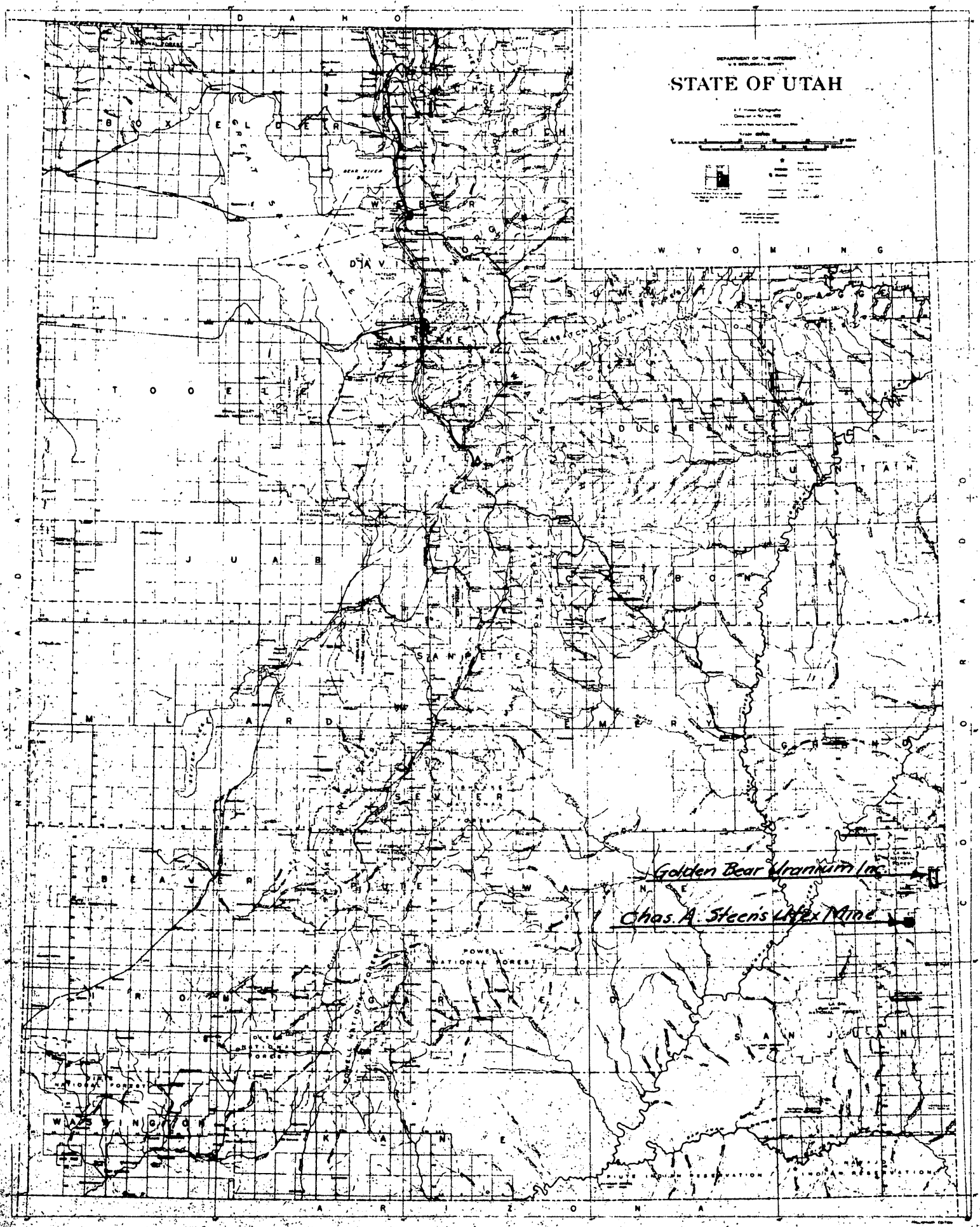

FIG. 1. GENERAL LOCATION MAP

These Claims total about 1,080 acres in all.

3. LOCATION AND ACCESS:

The Stocks Lease and Ida Group of Claims are located in Sections 25 and 36, Township 28 South, Range 26 East, S.L.B.& M.

The State Line Group adjoins the Colorado-Utah State line and is situated in Sections 4,5,8 and 9, Township 28 South, Range 26 East, S.L.B.& M.

The Stocks Lease lies astride Utah Highway No. 46 between the town of La Sal, Utah, and Paradox, Colorado. The property is reached from Moab, Utah, 23 miles Southward over Utah Highway No. 160 to La Sal Junction, thence Eastward 9 miles to the town of La Sal and on Eastward another 9 miles to the Stocks Lease, which is also 15 miles Westward from the town of Paradox, Colorado. The Ida Claims adjoin the Stocks Lease on the North.

The State Line Group is reached by turning North from Highway No.46, 7.4 miles Eastward from La Sal and going Northeastward over the alternate La Sal-Paradox road, a winding 8.6 miles to the point where the road crosses the South portion of the Blue Bird Claims.

4. OCCURRENCE OF URANIUM ON THE COLORADO PLATEAU:

Because certain conditions are peculiar to the production of Uranium ores, it is thought pertinent that a few facts concerning the industry will be relevant to this report.

The productive area of the United States for Uranium ores, chiefly of the "Carnotite type", is generally embraced within those portions of Southwestern Colorado and Southeastern Utah which have come to be known as the "Colorado Plateau". Because of important

new discoveries in these areas the term has also been extended to include the Uranium producing areas between the Colorado and Green Rivers, the San Rafel Swell in Emery County, and the Henry Mountains area in Wayne and Garfield Counties, Utah.

It was from the Colorado Plateau that Madame Curie obtained the"Carnotite" from which she extracted the Radium for her experiments with results that startled the scientific world. At the present writing this area has become the largest Uranium producing area in the Western Hemisphere, if not the greatest in the world.

The so-called "Colorado Plateau", is generally an elevated region of brilliantly colored sedimentary rocks broken only by the Uncompahgre Uplift in Colorado and the up-thrusting of the igneous intrusions which now form the LaSal Mountains, East of Moab, Utah, the Abajo Mountains, West of Monticello, Utah, the San Rafael Swell in Emery County and Henry Mountains in Garfield County.

Elevations in the plateau area range from about 4200 feet above sea level along the Colorado River to 8,000 feet in the higher parts of the Plateau, but most ore bodies are found at elevations from 4500 feet on the Colorado River to about 6500 feet at Steen's Utex Mine in the Shinarump formation, and from about 5,000 to 7,000 feet for ores in the Morrison Formation.

The whole area is further shaped by a succession of gentle monclines and anticlines with long axes running generally Northwest and Southeast. The anticlines have been fractured at their crests thus permitting erosion to eat downward into the underlying strata and to form long parallel valleys exposing the Uranium-

bearing sandstones and conglomerates along both sides of the anticlinal axes.

It is in these exposures that the first discoveries of Uranium ore were made in the sandstone cliffs fringing the valleys and which have been reliable producers for many years. The old type Western miner knew how to work the outcrop but his activities were limited to only those ore bodies which outcropped and he stopped when the limit of the ore-shoot was reached.

With the advent of the diamond drill the search for new ore bodies has been extended to areas back of the outcrop and, in fact, there is no place that the diamond drill can not reach and at an economic cost. It has been only recently that the geologist, the mining engineer, the driller and the claim owner or corporation, with a reasonable budget, can co-operate in effectively exploring and prospecting those areas which are geologically favorable.

That large quantities of valuable Uranium and Vanadium ores lie under the Colorado Plateau is a generally accepted view held by Engineers of the Atomic Energy Commission, by Consulting Geologists experienced in the area and by the U. S. Geological Survey which has been, and still is, conducting a great deal of reaearch throughout the area.

5. GENERAL GEOLOGY OF THE PLATEAU:

The rocks of the Colorado Plateau range in general, from Permian, through Triassic and Jurassic, and include the basal member of the Dakota sandstone of Cretaceous Age.

The Colorado River has cut its bed into the Cutler or Hermosa

formation of Permian Age. Thence in ascending order are found the brown, thin-bedded Moencopi formation, the grey Shinarump conglomerate and the variegated Chinie marls of Triassic Age; then follow the massive, vertical-jointed Wingate Sandstone, the evenly-bedded Kayenta formation, the massive, cross-bedded Navajo sandstone, the Carmel formation, the buff-colored massive Entrada sandstone, the shaly thin-bedded Summerville Formation, and the Morrison Formation, all of Jurassic Age. Then forming the resistant cap-rock over much of the area is the light yellow or grey Dakota sandstone.

6. ORE HORIZONS:

Although Uranium ore, with its associated Vanadium, is found in several geologic formations in the Colorado Plateau, only two of these are generally considered of economic importance, namely the Shinarump (or Chinle) and the Morrison Formations.

The lower of the two is the Shinarump (or Chinle) Formations of Upper Triassic Age. This is a grey sandstone and conglomerate, usually 20 to 80 feet thick, above which lies the mult-colored marls of the Chinle Formation. When the Shinarump is missing, as is the case in the Steen mine, the ore is found in the basal conglomerate member of the Chinle, known as the "Chinle D", or Mossback member, and is usually accompanied by an erosional cutting into the underlying formation.

In this formation was found the fabulous Utex Mine of Charles A. Steen, variously valued at $40,000,000 to $140,000,000; the original orebody on the T. C. Hudson property reported at $4,000,000; the Cal-Uranium Mine and Mamie Claim with $5,000,000 in ore developed;

the Jack Jones strike reported at $4,000,000 to $10,000,000 and others in Big Indian Valley. The Shinarump also furnishes the ores of Temple Mountain and those of Muddy River in the San Rafael Swell recently sold by Vernon Pick for nearly $10,000,000; the ores of the Colorado-Green River Triangle, the Seven-Mile area North of Moab and the White Canyon area West of Blanding.

The second important ore horizon is in the Salt Wash member of the Morrison Formation of Upper Jurassic Age, stratigraphically 1200 to 1500 feet above the Shinarump. This member consists of several, usually five, strata of grey sandstone 10 to 80 feet thick separated by layers of red, green and purple shales and mudstones. Uranium ore may occur in any one of the sandstone members but more commonly in the upper third of the formation.

The Morrison Formation may be considered the "old reliable". It has furnished nearly all the ore bodies of the plateau in Colorado; also those in the Yellow Cat area North of Moab; Polar Mesa Northeast of Moab; the Yellow Circle area Southeast of Moab; the Monticello area; the rich ore body of the 4-Corners Mine on the San Rafael River and the high grade ores of the Henry Mountains area. It was from this formation that Walter Gramlick shipped in April, 1954, one ton of ore which assayed 24.14% Uranium and 14.53% Vanadium for which he received $4,021.12 per ton.

The ore occurs principally as the yellow minerals Carnotite and Tyuyamunite, but most of the high grade deposits, whether in the Shinarump or in the Morrison, and where relatively protected from alteration, will carry more or less of the black Uraninite

or pitchblend. Carbonaceous material is also associated with the deposits more particularly in the Shinarump.

The orebodies occur as lenses in the surrounding sandstones. They will average 2 to 4 feet in thickness or may, as in the Steen Mine, run up to 28 feet thick. Deposits may produce from a few tons to several thousand tons each. Ore containing .15% U_3O_8 with an initial value of $16.50 per plus $6.00 haulage allowance is considered commercial ore. Most ores shipped will average from .25% to .45% Uranium Oxide with values of $38.25 and $76.00 per ton plus $6.00 haulage allowance.

Ore may be shipped to buying stations at Moab, Monticello, or Salt Lake City, Utah, or to Grand Junction, Colorado. The U. S. Atomic Energy Commission has guaranteed the present price for Uranium ores until 1962.

7. URANIUM ORE PRICES:

In order to form an idea of ore value in relation to Uranium content, a few figures are given below. In addition to payment for Uranium content the Vanadium content will normally add $6.00 to $12.00 per ton to the values below. There is also an allowance for haulage of $6.00 per ton for 100 mile haulage. The bonus is paid at the rate of $3.50 per pound of Uranium content on the first 10,000 pounds.

Assay Value U_3O_8	Without Bonus	With Bonus
.20%	$16.00	$30.00
.40%	35.00	63.00
.60%	54.50	96.50
1.00%	94.50	164.50
2.00%	194.50	334.50

8. GEOLOGY OF THE STOCKS LEASE AND IDA CLAIMS:

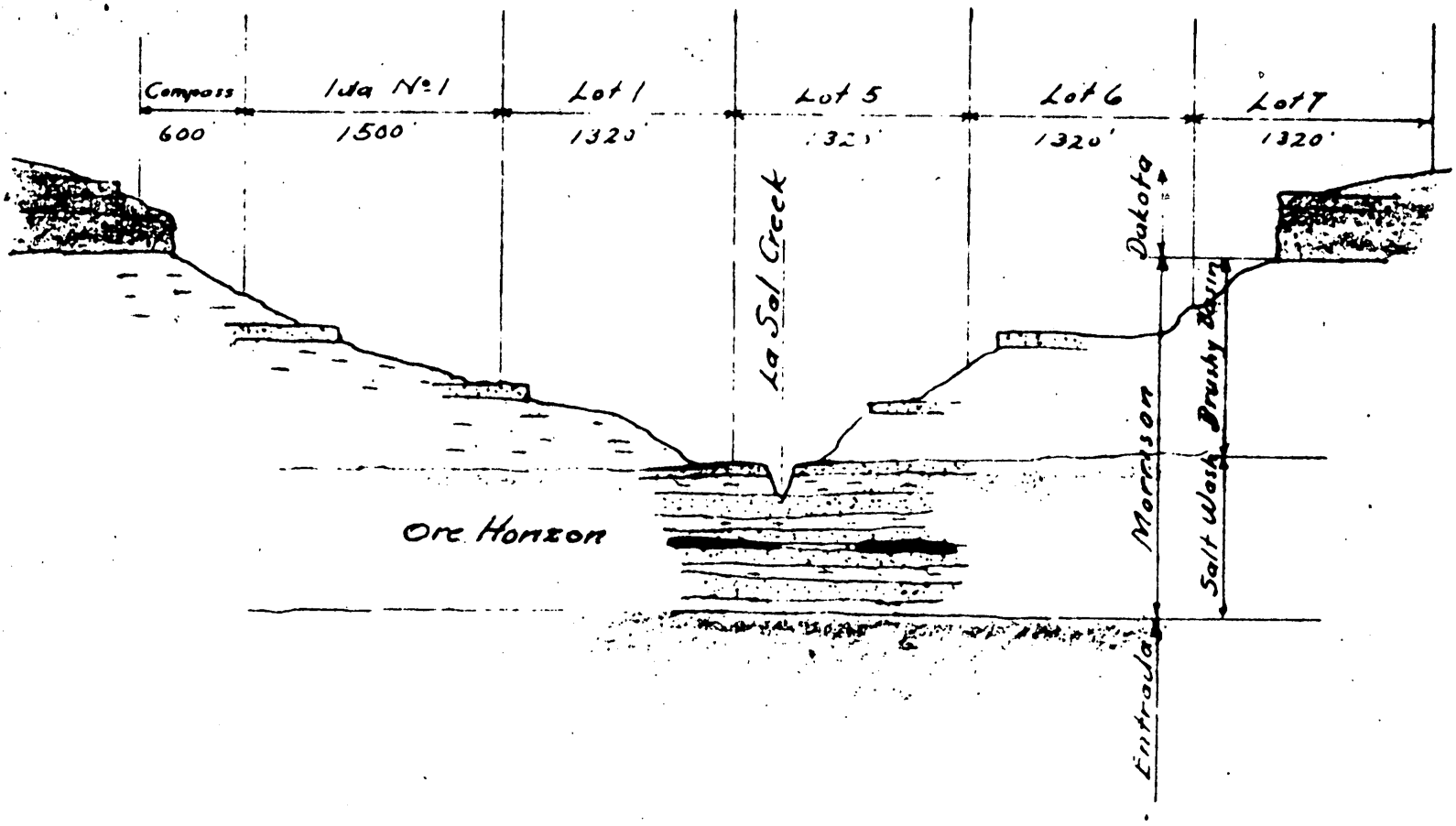

FIG 2. Geologic Cross-section thru Ida Claims and Stocks Lease.

Inasmuch as the Stocks Lease and the Ida Claims are contiguous they will be treated together. Figure 4, on back cover, is a photo-geologic map of the area prepared by the Atomic Energy Commission. Because they did not confirm their work in detail, some revisions in the geology have been made by this writer.

By reference to the map it will be seen that the Brushy Basin member of the Morrison Formation outcrops over most of the Stocks Lease and the Ida Claims. The overlying Dakota sandstone occupies the North portion of Ida No's. 3, 4, 5, and 6, and the Oversight and Compass Claims. A huge land slide on the North side of LaSal Creek and another directly opposite on the South side has displaced a block of the Dakota and Brushy Basin formations but does not appear to have affected the Salt Wash.

The ore horizon is in the Salt Wash Member of the Morrison Formation which directly underlies the Brushy Basin Member. The Salt Wash Member therefore underlies the entire area of the claims but is nowhere exposed except in the bed of LaSal Creek on the extreme East edge of Section 36.

The relative position of these strata can be seen by reference to the Geological Cross-Section, Figure 3. The ore horizon can best be explored by drilling. Drilling depths will vary from 200 feet to 450 feet when drilling through the Brushy Basin Formation, and up to 600 feet maximum from the top of the Dakota.

9. GEOLOGY OF THE STATE LINE GROUP:

The State Line Group of 34 Claims, follows generally the flat top of a long spur or mesa lying between Hop Creek on the West and

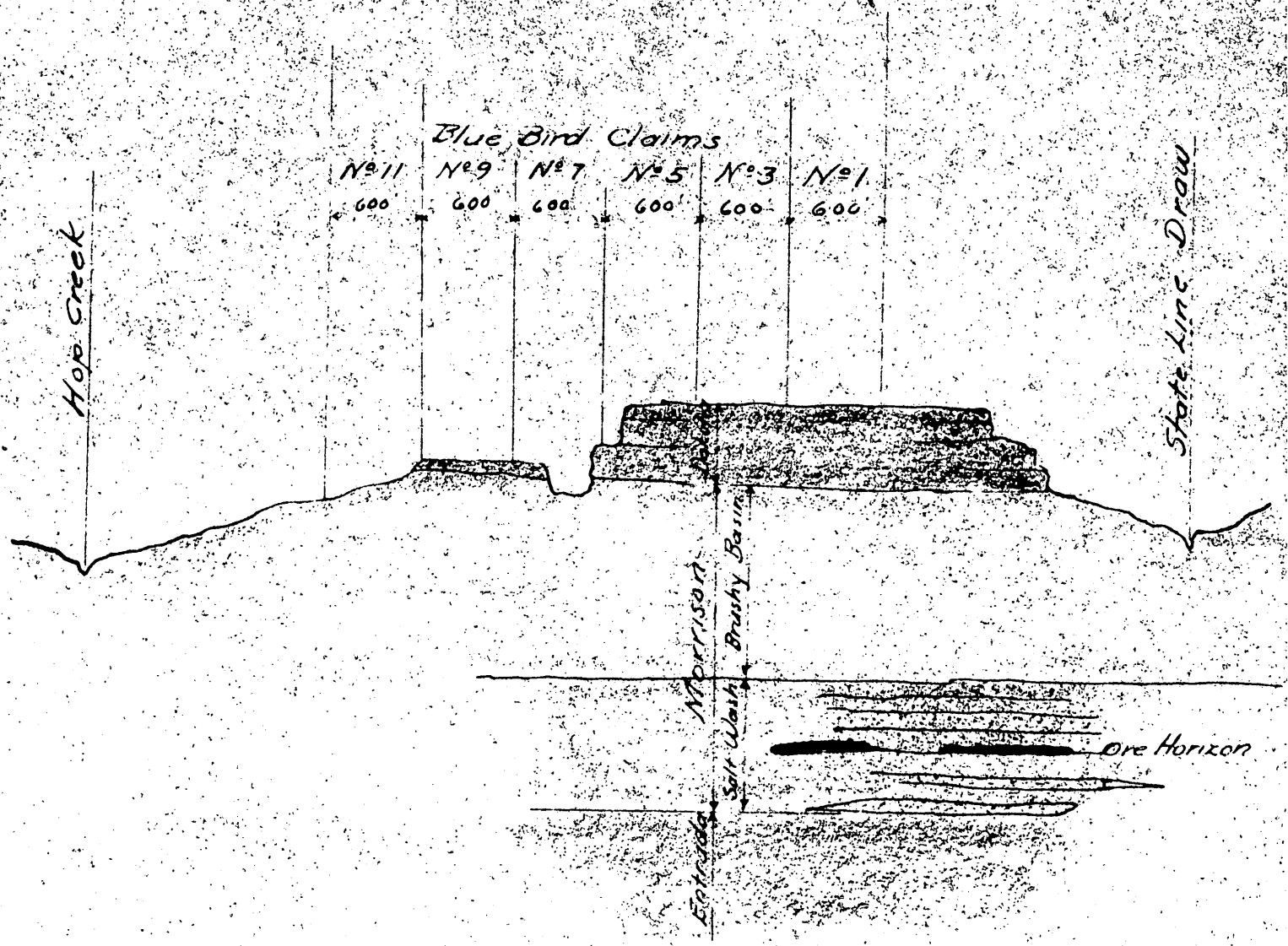

Fig. 3. Geologic Cross-section thru State Line Group

State Line Draw on the East.

Over most of the area the Dakota sandstone forms the surface as a dip slope, dipping between 4° and 6° to the South. On both the Hop Creek side and in the State Line Draw the claims extend over to include some of the Brushy Basin Member of the Morrison Formation. The Brushy Basin Member is also exposed where small draws, not shown of the map, run up into the sides of the mesa. It is in these lower-lying areas that drilling should be first undertaken.

The ore-bearing Salt Wash Member of the Morrison Formation underlies the whole area of the claims. Drilling through the Brushy Basin will vary from 400 to 450 feet and about 600 feet from the top of the Dakota.

The mesa is covered with a merchantable stand of mature Ponderosa Pine timber which is being logged by others under a permit from the U. S. Forest Service. The Forest Service has built a main haulage road the entire length of the claims with numbrous drag roads to bring in the timber. These roadways can be used for drill locations.

10. CONTIGUOUS MINING OPERATIONS:

There is a considerable grouping of operating mines in the immediate vicinity of the Golden Bear holdings. These may be summarized briefly as follows: (See Areal Geology map on back cover)

(a) The Firefly Mine being operated by Stocks and Gramlick is situated on the North bank of LaSal Creek and only 1/4 mile Ease of the Stocks Lease property of the Golden Bear Uranium, Inc. This mine is currently producing

500 to 600 tons per month averaging .46% to .60% Uranium and 2% Vanadium. They are mining from a single tunnel which has been drifted into the formation for about 1600 feet. New ore bodies are being opened as the drift advances.

(b) Little Peter and Day Dawn Mines owned and worked by the younger Stocks and Gramlick boys is situated on Two-Mile Creek only 1/3 mile Northeast of the Ida No. 1 Claim. Production is about 100 tons per month.

(c) The Vanadium Queen Mine has been a steady producer for many years, first for radium, then for Vanadium and is now being operated for both Vanadium and Uranium. Production is about 200-400 tons per month. This mine is located in Sections 29 and 32, Township 29 South, Range 26 East, 1-1/4 miles East from the Golden Bear holdings.

(d) The Yellow Bird property is over the State line in Colorado, 4 miles East of the Golden Bear. This is also a steady producer and is operated by the Vanadium Corporation of America.

(e) The Gramlick Group (see map) is also in Colorado 2 miles North of the Yellow Bird and 2-1/2 miles Southeast from the State line Claims of the Golden Bear.

11. PROSPECTS UNDER DEVELOPMENT:

The entire area for many miles in all directions is fully staked and many of the claim owners are prospecting and developing their properties. Since the ore-bearing Salt Wash sandstone member of the Morrison Formation outcrops in only a few places, it is necessary

to drill down from the surface in order to prospect any certain portion of the area.

Such drilling is now underway on the South side of LaSal Creek opposite the Firefly Mine and from thence down to the Yellow Bird Property.

Several of the larger corporations, such as Silver Buckle, Continental Uranium, Pioneer Uranium, and several smaller companies are drilling in various places in the Township immediately to the South.

On the North side of LaSal Creek Charles A. Steen, owner of famous Utex Mine 8 miles to the Southwest, has, only last week, moved in two drill rigs to prospect a group of claims he recently purchased on Hideout Mesa which lies between the two portions of the Golden Bear holdings.

Hunt Oil Company has two rigs drilling for Uranium on Hop Creek and have made a new strike near the South quarter corner of Section 18 about half way between the Ida Claims and the State Line Group. It is reported that the same company is drilling West of the State Line Group and also to the South in State Line Draw where another strike has been made.

12. EXPLORATION BY U. S. GEOLOGICAL SURVEY:

Perhaps of most importance is the drilling program by the U. S. Geological Survey for the Atomic Energy Commission. This agency has conducted a drilling program in considerable detail covering the ground from the Yellow Bird Mine Westward, past the Vanadium Queen, thence to include the lower reaches of Hop Creek and Two Mile Creek and over to the East boundary of Section 36, which is now part of the Golden Bear properties.

The details of this work can not be made public but it it known that several new ore bodies were discovered as well as prolonging the known mineralization of the existing mines.

13. DRILLING ON THE GOLDEN BEAR CLAIMS:

An attempt to drill the area was commenced late in the summer by Mr. Mayhew in the vicinity of an alleged anomaly. Due to the broken character of the ground involved in the aforementioned landslide and the type of rig used, the drills failed to penetrate to the ore-bearing horizon.

Under a contract with Sprague & Henwood, Drilling Contractors of Scranton, Pennsylvania, drilling on the Stocks Lease was resumed on November 11, 1954.

A drilling program is being followed with two objectives in view; first, to explore all parts of the property and second to localize and delineate any ore body which may be discovered.

The first objective (exploratory) involves the spacing of drill holes from 500 feet to 1000 feet apart, which, in addition to the possibility of finding a commercial ore body, will also give information, both positive and negative, upon which the next stage of drilling may be more intelligently based. It is not always necessary to encounter ore in a drill hole to know that one is in the immediate proximity of an ore body.

The second stage is to drill at closer intervals around an actual discovery or close by a favorable indication to localize and delineate the extent of an ore body preliminary to mining. These holes will be spaced 50 to 100 feet apart.

To date, two drill holes have been completed on Lots No. 2 and No. 1 of the Stocks Lease in Section 36; a third hole is now

being drilled near the East side of Lot No. 1. Drill hole No. 1 was drilled to a total depth of 375 feet and showed carbonization, which is indicative of mineralization, at 341 and 344 feet. The hole would be classed as semi-favorable.

Drill Hole No. 2, in a lower portion of the area, was drilled to a depth of 255 feet. The drill cores showed a small amount of Uranium and Vanadium for 18-1/2 inches between 300 and 302 feet and good values in Uranium for 4 inches immediately below. These cores were submitted for assay. When the hole was probed with the Barnaby Gamma Ray logging equipment of the U. S. Geological Survey a mineralized horizon 3 feet thick was disclosed between 300 and 303 feet. Of this thickness .7 foot indicated a Uranium content of .54% U_3O_8.

Core samples were submitted to Smith Assay Laboratory for wet assay with the following results:

Sample No.	Depth	Thickness	U_3O_8	V_2O_5
2-1	301	18-1/2"	.058%	.22%
2-2	303	4"	.908%	2.03%

14. CONCLUSIONS AND RECOMMENDATIONS:

Based upon the foregoing findings and facts and upon the experience of other operations in the Uranium field, the following conclusions may be drawn:

(1) The proper formation, namely the Salt Wash Member of the Morrison Formation, is present under all the claims.

(2) The Salt Wash Formation as disclosed by drilling, exhibits the typical succession of conglomeratic sandstones with interbedded clays and siltstones favorable for ore deposition.

(3) Actual mineralization was found in one of the two drill holes drilled upon the Stocks Lease and the other hole indicated semi-favorable conditions.

(4) The Claims lie within an area of actually proved mining operations.

(5) Recent drilling by the U. S. Geological Survey and by private companies has extended the limits of the mineralized area and has proved additional ore bodies within the previously known ore producing areas.

(6) It may therefore be concluded that commercial bodies of Uranium and Vanadium ore will be found upon all three groups of claims owned by the Golden Bear Uranium, Inc., based upon a properly planned drilling program.

(7) It is recommended that drilling be continued to explore and test the entire area based upon a program such as that described elsewhere in this report.

Respectfully submitted:

Robert G. Harding
Consulting Engineer and Geologist.

RGH/op

REPORT ON PROPERTIES

of

THE GOLDEN BEAR URANIUM COMPANY

by

E. J. Mayhew

Moab, Utah

September 3, 1954

DEPARTMENT OF THE INTERIOR
Release Records Control Unit
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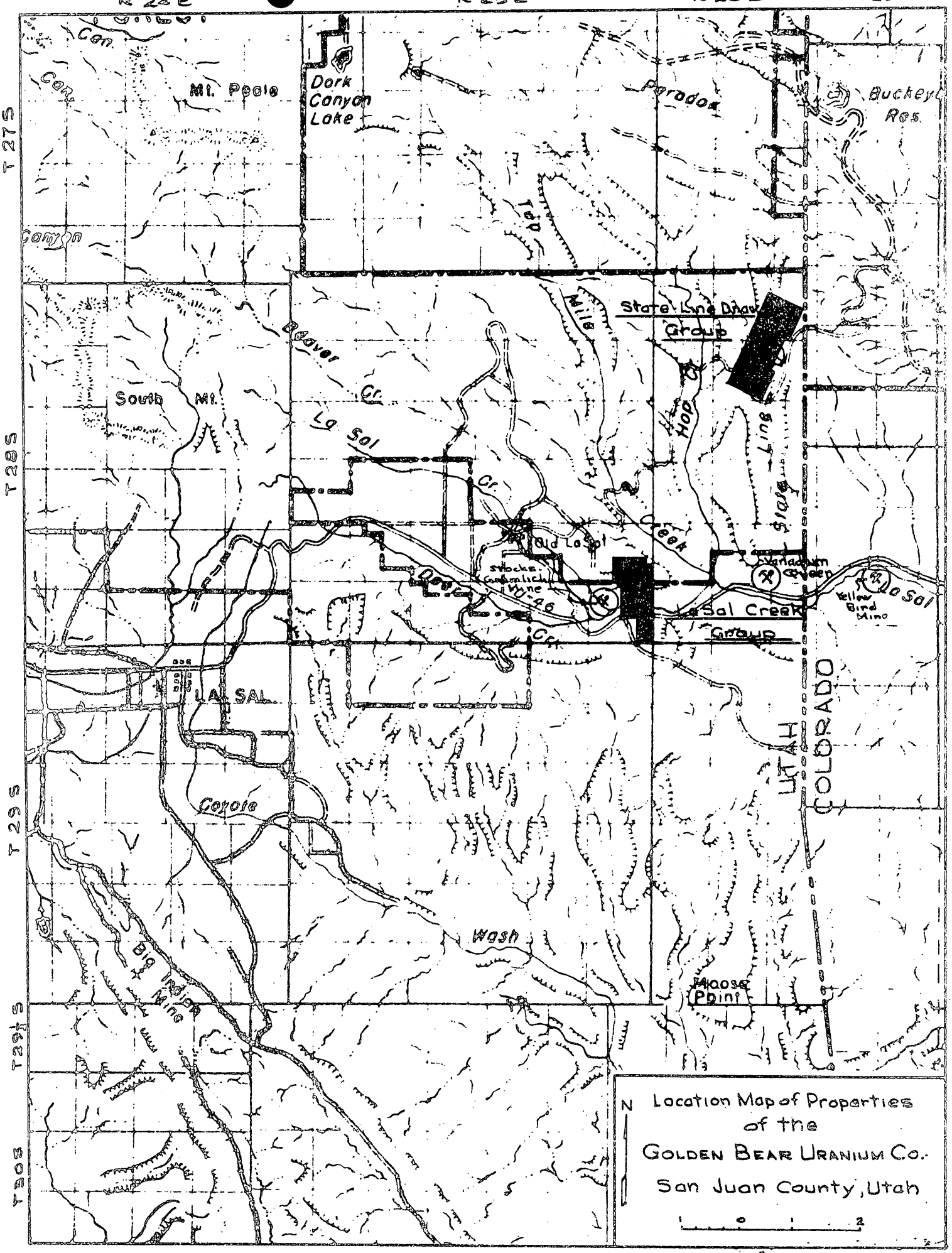
R 24 E
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T 27 S
T 28 S
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T 29½ S
T 30 S
Mt. Peale
Dark Canyon Lake
Paradox
Buckeye Res.
State Line Draw Group
Beaver Cr.
South Mt.
La Sal Cr.
Old La Sal
Stocker-Gadmalich Mine
Vanadium Queen
La Sal Creek Group
Yellow Bird Mine
LA SAL
Coyote Wash
Big Indian Mine
Moose Point
UTAH
COLORADO
Location Map of Properties of the Golden Bear Uranium Co.
San Juan County, Utah
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REPORT ON PROPERTIES

of

THE GOLDEN BEAR URANIUM COMPANY

by

E. J. Mayhew

GENERAL STATEMENT:

The properties of Golden Bear Uranium are in San Juan County, Utah, La Sal Mining District, approximately thirty-four (34) miles south and east of Moab. (See attached location map.)

It consists of two parcels as follows: one, the Blackbird, Redbird and Bluebird group of claims, thirty-four (34) in number: The other, a group of eight lode claims and two-hundred-twenty acres of adjoining school land.

Exploration and development in this area started this summer and is increasing from day to day. There are eleven rigs operating in the area at present and more reportedly coming in.

LOCATION:

The Blackbird, Bluebird and Redbird group of thirty-four (34) claims are located in State Line Draw, T 28 S, R 26 E, sections 4, 5, 8 and 9. They can be reached by a county road going from Old La Sal across Two Mile Creek, and Hop Creek to State Line Draw to the northeast.

The La Sal Creek group, including the State School land can be reached to the east of Old La Sal by State Highway Utah No. 46, a distance of about 6 miles.

STRATIGRAPHY:

Only Sedimentary rocks of Cretaceous age outcrop in this area. The Morrison formation, and Dakota, form the surface of the plateau on the eastern flank of the La Sal Mountains. The Dakota formation is a massive conglomeratic sandstone that forms rims and cliffs along the creeks and caps the intervening divides. Here the creeks have cut their way through the Dakota and have eroded out a major portion of the underlying Morrison shale, locally called, Brushy Basin. The Brushy Basin shale is a fine grained sandy and betonitic shale of varigated and intense colors ranging from black to red. Under the floor of the valleys and the Dakota capped divides lies the Salt Wash member of the Morrison. The Salt Wash is made up of generally three predominant sandstones separated by shales. These sandstones are lenticular and of variable thickness with conglomeratic facies and a great deal of cross bedding. They frequently contain large amounts of carbonized plant remains and silicified dinosaur bones.

The Salt Wash member of the lower Morrison is the ore-bearing unit and the ore may be in any one, or all three of these sandstones.

STRUCTURE:

The Golden Bear properties lie on a high mesa on the east flank of the La Sal Mountains from which several faults radiate, cutting the Dakota and Morrison formations and forming channels of access for ore-bearing solutions that originated in the Igneous center of the laccolithic La Sal Mountains. Dips are very gentle to the east, generally on the order of 2° to 3° and, although the formations are faulted, the fault displacements

are so small as to not offset the salt wash sands more than a few feet.

ORE DEPOSITS:

The occurance of uranium ores in sedimentary rocks in the Colorado Plateau has been the subject of much study and speculation since its first discovery. There are almost as many theories as there are people but the one gaining the most support assumes that the mineralizing solutions originated in the porphyry core of the La Sal Mountains in this area and found their way to their present resting place along faults, joint cracks and zones of high porosity and permeability in the sandstones. Precipitation was caused by the presence of carbon, and/or, iron pyrite zones of the sand having sufficient porosity to form a reservoir.

Deposits of uranium is the Morrison formation pretty well can be classified by the geographic area in which they occur. For example, in the Klondike area north of Moab, the Morrison deposits are very small, thin and discontinuous; in the Monogram hill area of Paradox Valley to the east of these properties, the deposits are thick, persistent and of large tonnages; there are all classes of Morrison uranium deposits between these two extremes and they are generally characteristic of their particular geographic area.

Ore deposits are all along La Sal Creek to the south; along the west rim of Paradox Valley to the east and along Sirbad Valley to the northeast. The mines immediately south are as follwos: Stocks-Gramlich, Don Danvers and the Vanadium Queen. All these mines have large ore bodies. The Stocks-Gramlich recently completed blocking out a 30,000 ton ore body

having a vanadium content of over 2% and a uranium content of around 0.50%. Thicknesses range from two to twenty-three feet characteristically, and the vanadium content is sufficiently high to more than pay for the cost of mining. Other mines to the east, northeast and north are similar, as is Polar Mesa to the north.

There are no outcrops of the Salt Wash on this property and prospecting must be done by drilling as is the case with most discoveries on the Colorado Plateau now. Drilling should be done on a minimum of 350' centers here and it is quite probable that if such a drilling program is carried out there will be ore bodies of comparable size to the others of the area discovered by such drilling.

A drilling program is now in progress in Hop Creek on claims adjoining the Blackbird claims along their west line. Hunt Oil Company owns this adjoining property and has three drill rigs working on hone-hundred foor (100') centers, presumably blocking out ore.

Further to the south of the Blackbird group of claims in State Line Draw, toward the Vanadium Queen Mine, Hunt Oil has another discovery and is blocking out ore.

DEVELOPMENT:

Development and exploration work must be carried out by drilling and coring or by drilling and scintillation logging. Drilling depths on these properties will be from a minimum of 250' deep in the valleys to a maximum of 600' of depth from the top of the ridges.

MINING METHODS:

Mining will be by shaft since there are no outcrops of the ore bearing Salt Wash sandstone on either of the properties.

Any ore bodies found on either property will be of sufficient size that more economical and modern methods can be used than are common in the small ore body areas of the Colorado Plateau.

Vanadium content in the ore of this District is always 2% or greater and this will pay all mining costs.

CONCLUSIONS:

The northern tract of Golden Bear property is joined on the west by a property which has a new discovery still being drilled up. Likewise, a new discovery has been made a short distance to the south. There are several mines operating to the east where the ore bearing sandstones outcrop.

The facts of proximity to ore bodies coupled with the known facts that the ore bearing sands are present under this property makes the writer most positive that commercial ore is present under the Blackbird-Bluebird-Redbird group of claims and that a well-planned and executed exploration program will find one or more such ore bodies.

The State Line- La Sal Tract is the most promising virgin ground left in the Utah part of the Colorado Plateau. It joins the largest Morrison ore body in the state of Utah and exploration drilling will be comparatively shallow, (450' maximum). There are no known geologic conditions present that could prevent or alter ore deposition or accumulation on this property.

Both these tracts should produce commercially and their chances of so doing are among the best known.

E. J. Mayhew
Consulting Geologic
Engineer

AGREEMENT OF PURCHASE

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 3 - 1955

THIS AGREEMENT, made and entered into at Moab, Utah, this 15th day of July, 1954, by and between A.M. STOCKS and LENA STOCKS, his wife, hereinafter referred to as FIRST PARTIES, and JOHN SANDBURG, Trustee, and JOHN T. SHEPARD, Trustee, hereinafter referred to as SECOND PARTIES,

WITNESSETH:

1. Said FIRST PARTIES do hereby sell to said SECOND PARTIES the following unpatented lode mining claims located in the County of San Juan, State of Utah, the notices of location for said mining claims being recorded with the County Recorder of said County and being incorporated into this agreement by reference:

NAME	BOOK	PAGE
Black Bird #1 thru #12	103	437 thru 443
Blue Bird #1 thru #12	103	443 thru 449
Red Bird #1 thru #10	103	432 thru 437

2. The purchase price for the aforesaid unpatented lode mining claims is the sum of Sixty eight hundred Dollars ($6800.00). Said SECOND PARTIES have paid to said FIRST PARTIES the sum of Twenty two hundred sixty six Dollars ($2266.00), receipt of which is hereby acknowledged by said FIRST PARTIES. The further sum of Twenty two hundred sixty six Dollars ($2266.00) is due and payable and shall be paid on or before the 15th day of October, 1954; and a further amount of Twenty two hundred sixty eight Dollars ($2268.00) shall be due and payable on or before January 15, 1955.

3. There shall be reserved to said FIRST PARTIES a two per cent (2%) gross royalty upon all ores mined and sold from the premises. Said two per cent (2%) gross royalty is to be reserved by the mills purchasing said ore, and said SECOND PARTIES hereby consent to said FIRST PARTIES making demand upon said mill or mills for such payments. The aforementioned two per cent (2%) gross royalty shall be upon the basic ore price and upon

any bonus payments but shall not be paid or due upon any haulage allowance or upon any development allowance. Said royalty payment shall be due and payable on the 1st day of the month or when payment is made by the mill, which ever is sooner. Said royalty payment shall be for the full amount of royalty due upon ores shipped from said claims during the calendar month immediately preceeding the 1st day of the month.

4. From and after the execution of this agreement said SECOND PARTIES agree to pay all taxes, assessments, and charges of every kind now or hereafter assessed, levied, charged or imposed upon the said mining claims, or any interest therein, at least ten (10) days before the same shall become delinquent.

5. The parties hereto agree that time is of the essence of this agreement as to all money payments and that time is of the essence as to the performance of any of the annual labor work that may be required and that full compliance by SECOND PARTIES with all the terms of this agreement is and shall be a condition precedent to SECOND PARTIES right to a conveyance hereunder.

6. Should SECOND PARTIES fail to comply with all of the terms hereof then said FIRST PARTIES may at their option cancel and forfeit all of said SECOND PARTIES right under this agreement and all of their interest in and to the said lands, mining claims and mining rights and appurtenances, either by service upon SECOND PARTIES of a written declaration of default, forfeiture and cancellation, or by depositing in the United States mail, postage prepaid, registered mail return receipt requested, such written declaration addressed to either of said SECOND PARTIES, either at the post office address caused to have been filed with FIRST PARTIES, or if no such address be so filed, then addressed to SECOND PARTIES at Moab, Utah. Such written declaration when served or mailed shall be conclusive proof in favor of subsequent purchasers or

or encumbrancers in good faith and for valuable consideration of such default, forfeiture and cancellation. Upon such declaration of default, forfeiture and cancellation by FIRST PARTIES according to this contract provided, all rights, states, and interests hereby created or then existing in favor of SECOND PARTIES, or any one claiming under SECOND PARTIES, shall cease and become null and void; and the right of possession and all equitable and legal interests and the states of said lands, mining claims, and mining rights, with all sums of money theretofore paid by SECOND PARTIES, shall revert to, vest in and become a sole property of FIRST PARTIES; and all monies paid and any improvements erected shall be forfeited to and retained by FIRST PARTIES, and shall be liquidated damages for SECOND PARTIES failure to comply with the terms hereof and not as a penalty.

7. SECOND PARTIES shall be allowed a ten (10) day grace period from and after any money payment due within which said money payment may be made. For any default of SECOND PARTIES pertaining to any covenant other than a money payment as herein specified said SECOND PARTIES shall have thirty (30) days after receipt of written notice of said default within which to correct any such default.

8. SECOND PARTIES agree that should SECOND PARTIES desire to no longer maintain the claims as valid unpatented mining claims that SECOND PARTIES will notify FIRST PARTIES thereof in sufficient time to allow FIRST PARTIES to maintain the claims as valid and subsisting and SECOND PARTIES agree thereupon to execute the FIRST PARTIES a Quit Claim Deed thereon.

9. The address to which notices are to be sent are as follows:

FIRST PARTIES:

La Sal, Utah

SECOND PARTIES:

Ten Exchange Place

c/o Senior and Senior

Salt Lake City, Utah

10. It is agreed that the addresses herein set forth shall be sufficient and shall be deemed to be the addresses to which notices by either party to the other are to be sent, provided further that either party may from time to time designate different or additional addresses by giving to the other party notice in writing of such change.

11. It is agreed that FIRST PARTIES will deposit in escrow with the First National Bank of Moab a copy of this agreement along with proper escrow instructions, and a Quit Claim Deed of the properties herein set forth. Said instructions shall comply with this agreement and upon payment of the full pruchase price as herein specified said bank shall be empowered to deliver to SECOND PARTIES or order the aforementioned Quit Claim Deed.

12. It is understood and agreed between the parties that any mineral discovery upon the premises made during the term that this contract is in effect and under title of FIRST PARTIES as herein set out shall inure to the benefit of and become the property of the FIRST PARTIES in the event the property shall revert to FIRST PARTIES by virtue of default in this contract by by SECOND PARTIES. It is represented by FIRST PARTIES that the premises are free and clear of all liens and encumbrances as of the date of this agreement and in the event that the same shall be subject to any liens or encumbrances at this time then FIRST PARTIES agree to satisfy such liens and encumbrances or in the event that they shall be unable so to do they shall return to said SECOND PARTIES the monies paid hereunder.

WITNESS the hands of the parties to this agreement this 15th day of July, 1954.

A.M. STOCKS

LENA STOCKS, his wife

FIRST PARTIES

JOHN SANDBURG, Trustee

JOHN T. SHEPARD, Trustee

SECOND PARTIES

STATE OF UTAH)
)ss
COUNTY OF GRAND)

On this 15th day of July, 1954, personally appeared before me A.M. STOCKS and LENA STOCKS, his wife, and JOHN SANDBURG, Trustee, and JOHN T. SHEPARD, Trustee, signers of the foregoing instrument, who being first duly sworn, acknowledged to me that they executed the same.

Notary Public, Residing in
Grand County

My Commission Expires:

QUIT CLAIM DEED

A.M. STOCKS and Lesa STOCKS, his wife, of Moab, Utah, GRANTORS, hereby forever quit claim to John Sandberg and John T. Shepard, of Moab, Utah, GRANTEE, for and in consideration of the sum of Ten and no/100 Dollars ($10.00) and other good and valuable consideration all of GRANTORS right, title and interest in and to the following described unpatented mining claims located in San Juan County, State of Utah, the name of said mining claims and the notices of location being filed in the office of the County Recorder of San Juan County, and being as follows, to wit:

NAME	BOOK	PAGE
Black Bird #1 thru #12	103	437 thru 443
Blue Bird #1 thru #12	103	443 thru 449
Red Bird #1 thru #10	103	432 thru 437

Together with all metals, ores, gold and silver bearing quartz, rock and earth, together with all carnotite, uranium, vanadium and fissionable bearing ores located therein; and all dips and spurs, rights, privileges and franchises, tenements, hereditaments and appurtenances thereto incident or belonging, or therewith used and enjoyed, and all the estate, right, title, interest, property, claim and demand whatsoever, legal and equitable, as well in possession as in expectancy, of the GRANTORS, of, in or to said premises, and every part thereof. Reserving to said Grantors a 2% gross royalty upon all ores mined & sold.

IN WITNESS WHEREOF the GRANTORS have signed their names this 30 day of June, 1954.

A.M. Stocks
A.M. STOCKS

Lesa Stocks
his wife

LAW OFFICES
REYNOLDS AND DIXON
21 MAIN STREET
MOAB, UTAH
MOAB 2001

STATE OF UTAH)
) ss
COUNTY OF ~~GRAND~~ San Juan)

On this 30 day of June, 1954, personally appeared before me A.M. STOCKS and Lena STOCKS, his wife, the signers of the foregoing instrument, who being first duly sworn, acknowledged to me that they executed the same.

Elsie Jameson
Notary Public, Residing
in ~~Grand~~ San Juan County

My Commission Expires:
April 7, 1958

QUIT CLAIM DEED

JOHN SANDBURG and MINNIE E. SANDBURG, his wife, and JOHN T. SHEPARD and LOVELLA R. SHEPARD, his wife, of Sacramento, California, GRANTORS, hereby forever quit claim to GOLDEN BEAR URANIUM, INC. a Nevada corporation, GRANTEE, for and in consideration of the sum of TEN DOLLARS, and other good and valuable consideration all of Grantors right, title and interest in and to the following described unpatented mining claims, located in San Juan County, State of Utah, the name of said mining claims and the notices of location being filed in the office of the County Recorder of San Juan County, and being as follows, to wit:

NAME	BOOK	PAGE
Black Bird #1 thru #12	103	437 thru 443
Blue Bird #1 thru #12	103	443 thru 449
Red Bird #1 thru #10	103	432 thru 437

Together with all metals, ores, gold and silver bearing quartz, rock and earth, together with all carnotite, uranium, vanadium and fissionable bearing ores located therein; and all dips and spurs, rights, privileges and franchises, tenements, hereditaments and appurtenances thereto incident or belonging, or therewith used and enjoyed, and all the estate, right, title, interest, property, claim and demand whatsoever, legal and equitable, as well in possession as in expectancy, of the GRANTORS, of, in or to said premises, and every part thereof. Reserving to herein said GRANTORS a 10% gross royalty upon all ores mined and sold and a 2% gross royalty upon all ores mined and sold to A. M. Stocks and his wife, Lena Stocks, of La Sal, Utah.

IN WITNESS WHEREOF, THE GRANTORS have signed their names this 31st day of January, 1955.

John T. Shepard
John T. Shepard

John Sandburg
John Sanburg

Lovella R. Shepard
Lovella R. Shepard

Minnie E. Sandburg
Minnie E. Sanburg

STATE OF CALIFORNIA)
) ss
COUNTY OF SACRAMENTO)

ON this 31st day of January, 1955, personally appeared before me John Sandburg and Minnie E. Sandburg, his wife and John T. Shepard and Lovella R. Shepard, his wife, the signers of the foregoing instrument, who being first duly sworn, acknowledged to me that they executed the same.

Ward P. Sterling
Notary Public, for and in the County of Sacramento, State of California

My Commission Expires: 6-3-56

Philura DMEA Exhibit No 1

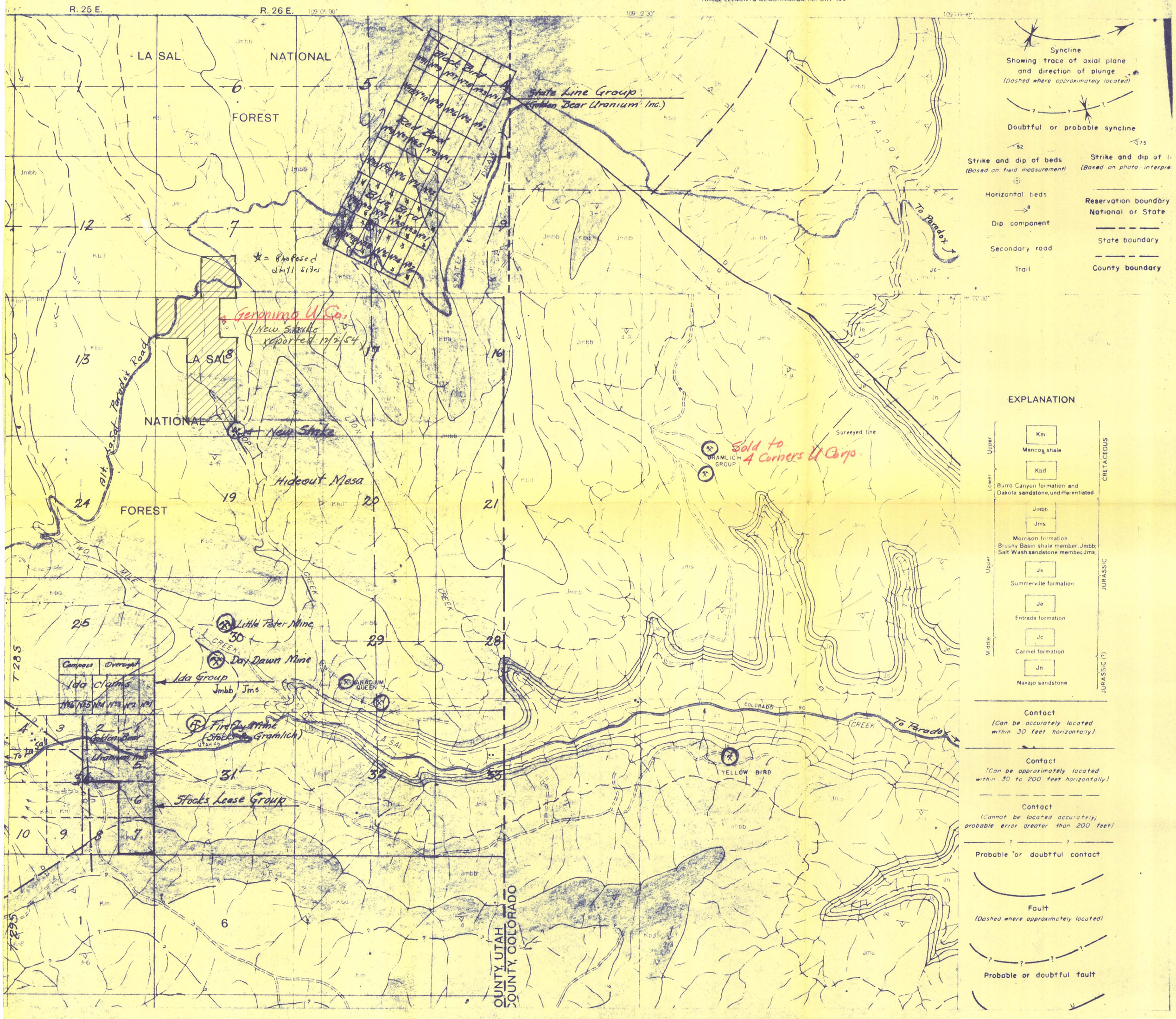
FIG. 4. AREAL GEOLOGY

U. S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

PREPARED IN COOPERATION WITH THE
ATOMIC ENERGY COMMISSION

COMPILATION OF PHOTOGEOLOGY AND SURFACE GEOLOGY
COLORADO PLATEAU AREA, UNITED STATES

TRACE ELEMENTS MEMORANDUM REPORT 465



Blue Bird No 1
Blue Bird No 2
Blue Bird No 3
Blue Bird No 4
Blue Bird No 5
Blue Bird No 6
Blue Bird No 7
Blue Bird No 8
Blue Bird No 9
Blue Bird No 10
Blue Bird No 11
Blue Bird No 12
Red Bird No 1
Red Bird No 2
Red Bird No 3
Red Bird No 4
Red Bird No 5
Red Bird No 6
Red Bird No 10
Kbd
Jmbb
T 28 S R 26 E
Section 8
Section 17
Paradox Coal
Red Dakota Sandstone
Jmbb Brushy Basin Member
Jms Salt Wash Member
Js Summerville Formation
Harrison Formation
Normal Ore Horizon
GEOLOGIC CROSS-SECTION ON LINE A-B
DRILL HOLE CODE:
A = First Stage Drilling
B = Second Stage Drilling
Figures under Stage & Drill Hole No represent estimated depth of drill hole.
BLUE BIRD CLAIMS
OF
GOLDEN BEAR URANIUM, INC.
IN T 28 S, R 26 E, San Juan County, Utah.
Scale 1" = 200'
Feb. 15, 1955.
Robert G. Harding
Geologist