DMEA Form 9
Rev. 6/57

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

OFFICIAL DOCKET FILE — Idm-E NO. 236 — DMEA NO. 1631

Application
- [ ] Denied
- [ ] Withdrawn

Contract
- [ ] Terminated - Not Certified
- [X] Terminated - Certified
- [ ] Cancelled
- [ ] Royalty Agreement

The records contained in this file are marked (x) and arranged in this order:

Folder No. 1:

Left Side

- [X] Royalty Audits
- [X] Certification of Discovery
- [ ] Closing Letter
- [X] Cost Audits
- [ ] Termination Notice or Agreement
- [ ] Recision Notice
- [ ] Assignment of Contract
- [X] Contract Amendments
- [X] Contract with all exhibits and annexes
- [ ] Owner's Consent to Lien and Subordination Agreement
- [X] Application and attachments

Right Side

- [X] Project summary (final)
- [X] Work Completed analysis (final)
- All other material filed in chronological order including the following reports if checked:
- [ ] Field Team Semi-Annual Report for Certified Project
- [X] Final Field Team Report (Tab)
- [X] Operator's Final Report (Tab)
- [ ] Interim Field Team Reports
- [ ] Operator's monthly reports and all attachments
- [X] On-site Exam Report (Tab)
- [ ] Settlement Sheets
- [ ] Drill Logs

Additional Folders:

Left Side

Folders No. 2 : Reports
- [X] Analysis of Semi-Annual Inspection Reports & FT Semi-annual rep.
- [ ] Project Summary (Interim) by DMEA Engineers

Folder No. 3 - MF-104's

Folders No. 4 : Maps (Use pocket folder or envelope)

Folders No. _____ : Settlement Sheets

Folders No. _____ : Drill Logs

Folders No. _____ : Royalty material

Right Side

- [ ] Field Team Semi-Annual Report for Certified Project
- [ ] Field Team Interim Reports
- [ ] Operator's Monthly Reports with transmittal, narrative and maps.
- [X] Settlement Sheets

17963

[illegible] FEDERAL INTEGRATION ADMINISTRATION
[illegible] ADMINISTRATION AND AUDIT DIVISION

[illegible] REPORT OF ROYALTY AUDIT

I have reviewed all copies of settlement sheets on file with the Executive Officer, DMEA Field Team, Region III, applicable to royalties collected on the sales of Uraninite Ore for the period January 24, 1953 through September 23, 1955, by:

Republic Mining Corporation
Tachank Building
Grand Junction, Colorado

produced from Willer, Denise, and Aileen group of claims in the Ray East area on the Green River in Emery County, Utah, under the terms of Contract [illegible], Docket No. DMA-1631E.

The exploration contract authorized a total cost of $99,299.00 with Government participation at 90%, or $89,369.70.

An audit report dated November 11, 1953 by Donald T. Finch, Auditor, showed the total accepted cost to be $54,[illegible].18 with Government participation of $49,168.66.

A Certificate of Discovery or Development was issued on August 19, 1953.

My review included an examination of the semi-annual inspection reports of various examining engineers, U.R.D.M., and check sheet of Examining Engineer dated September 29, 1955.

This review was made in lieu of an on-site audit of the Operator's records for the following reasons:

1. Correspondence with the Field Operations Office of the Atomic Energy Commission at Grand Junction, Colorado, confirmed that all sales of U_3O_8 from this group of claims, subject to DMEA royalties, had been reported to the Executive Officer of DMEA Field Team, Region III.

2. The administrative cost to the Government of an on-site audit at this time would be excessive in relation to the amount of possible additional royalty which might be disclosed.

3. The Examining Engineer is of the opinion that all sales of production have been properly accounted for.

The examination established the total sales of Uraninite Ore for this period to be $14,453.95. (See schedule attached.) Royalty due the United States Government at the contract rates of 4 to 5 payment is $713.57. The royalty paid and balance due are as follows:

Total Royalties Due	$713.57
Total Royalties Paid	$713.56
Balance Royalties Due (overpayment)	$ [illegible].79

November 9, 1955

Donald T. Finch, Auditor

STATE OF INSPECTION AND SALES
[illegible] PLANTS CORPORATION

Contract [illegible] | Contract No. [illegible]

	VIRGO CHEMICAL COMPANY	A. S. & R. Co. COAL PLANT I. BRADEN	TOTAL
Gross Net Weight, Pounds	16,700	709,180	887,880
Net Dry Weight, Pounds	13,438	708,338	706,776
Net Dry Weight, Tons	9.214	354.144	353.378
Establishment Factors (Average)			
Moisture, H_2O	1.02	.22894	.24374
Volatiles, V_2O_5	.14	-	Trace
Pounds V_2O_5	184.12	1731.54	1917.66
Base Payment V_2O_5	$481.43	$5,246.88	$5,727.71
Development Allowance	$93.04	$865.77	$958.83
Deductions:			
Excess of 1 lbs. Vrdo per ton			
Pounds V_2O_5	149.26	477.75	627.01
Amount @ 7½¢ per lb.	$111.95	$358.30	$470.25
Excess of 10 lbs. Vrdo per ton			
Pounds V_2O_5	93.98	37.70	131.68
Amount @ 3½¢ per lb.	$23.50	$9.42	$32.92
Haulage Allowance			
Per Net Ton (Average)	$6.00	$5.43	$5.43
Number of Net Tons	9.35	354.59	363.94
Amount of Haulage Allowance	$56.10	$2,143.48	$2,199.58
Pounds of V_2O_5	25.00		25.00
Amount V_2O_5 @ 32¢ per lb.	$8.00		$8.00
Deductions			
High Line Penalty	37.47	$1,143.65	$1,161.12
Sampling Charges	$25.75		$25.75
Freight Paid by Purchaser	$23.18		$23.18
Total Receiving Station Payments	$ 976.64	$ 7,579.68	$ 8,456.24
A.I.S. Production Bonus	$ [illegible]	$ [illegible]	$ [illegible]
Total Value Subject to DMEA Royalties	$ [illegible]	[illegible]	[illegible]
Average Value Per Dry Ton	$106.84	$33.65	$36.54
Average DMEA Royalty %	[illegible]	[illegible]	[illegible]
DMEA Royalty Due	$76.40	$637.17	$713.57
DMEA Royalty Received	$76.40	$637.36	$713.76
Balance DMEA Royalties Due	$ 0.00	$ 0.19	$ 0.19

STATE OF INSPECTION MINE ACCOUNT A.I.S.

Original Quota		10,000.00 lbs. V_2O_5
Adjusted from Production Prior to DMEA Contract	128.82 lbs.	
Production Above	1,317.46 "	
Excess Quota Utilized		1,446.47 "
Balance Eligible for Bonus per Letter from A.I.S. dated 9/22/55		7,983.53 lbs. V_2O_5

Check Sheet of Examining Engineer

Operator's Name Excalibur Uranium Corporation

Address Vorbeck Building

Grand Junction, Colorado

Exploration Contract No. Ida-2236 Docket No. MA-1631X

	Check One Yes	No
1. (a) Does the Operator stockpile ore subject to royalty repayment?	✓	
(b) If so, is segregation and identification procedure adequate?	✓	
2. (a) Does Operator commingle production subject to DMEA royalties with exempt production?		✓
(b) If so, do you consider the allocation of the commingled production equitable?		
3. (a) Does the Operator stockpile mine or mill rejects (low grade ore, tailing, middlings, etc.) that may have potential value within the royalty payment period?	✓	
(b) If so, are adequate records maintained on such material to protect the Government's interest?	✓	
4. Do you consider the assay controls in effect are adequate?	✓	
5. Do you consider that the manner of disposing of production gives the Government its fair royalty returns?	✓	
6. Do your periodic examinations of operations indicate the Operator is properly reporting his production of ores subject to DMEA royalties?	✓	
7. Does the Operator buy from or sell to other Operators?		✓
8. Comment on any item 2 (b) to 6 if answer is No.		

W. E. Young
Mining Engineer

Date Sept. 19, 1955

82448

Docket copy

CERTIFICATION BY THE UNITED STATES OF AMERICA
OF A DISCOVERY OR DEVELOPMENT UNDER
AN EXPLORATION PROJECT CONTRACT

To: Excalibur Uranium Corporation
Vorbeck Building
Grand Junction, Colorado

Pursuant to the provisions of Exploration Project Contract No. DMA-E236, dated January 24, 1952, (Docket No. DMA-1631X), hereinafter called the "contract", between you and the United States of America, hereinafter called the "Government"; to establish and fix the Government's percentage royalty on production and its lien thereon and on the mineral deposit which is the subject of the exploration project, the Government considers and therefore certifies that a discovery or development from which commercial production of ore may be made has resulted from the work.

The Government's estimate of said discovery or development is particularly described and delimited as follows:

Small, tabular ore bodies of uranium and vanadium oxide minerals occur on the Aileen No. 1, 2, 8 and 9, the Danise No. 1 and 6, the Willow No. 1 and 2 claims, and may extend into any of the adjoining claims described in Article 2 of this contract.

Dated: AUG 19 1953

THE UNITED STATES OF AMERICA

By O. Mittendorf
Administrator, Defense Minerals Exploration Administration

cc to: Contract Adm. & Audit Div.
Field Team (2)
Finance Office
Division copy
Docket
Administrator, DMPA
Operating Committee
Adm. Reading File
Mr. Hedges, Rm.4604
Mr. Thayer, Rm. 5216 GSA Bldg.
Mr. F. E. Johnson
Mr. Murphy, Rm.4640

11/30/53 gla

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 16 1953

DEFENSE MINERALS EXPLORATION ADMINISTRATION
CONTRACT ADMINISTRATION AND AUDIT DIVISION

AUDIT CERTIFICATE

I have examined the records and transactions of:

Excalibur Uranium Corporation
Vorbeck Building
Grand Junction, Colorado

pertaining to Exploration Contract Idm-E236, Docket No. DMA 1631, including Amendments Nos. 1 to 4, covering a project of exploration for Uranium ores, located in the Bow Knot area on the Green River, Emery County, Utah, for the period February 1, 1952 to April 30, 1953, and including waiver of Government's interest in property acquired, dated October 30, 1953.

My examination was made in accordance with generally accepted standards applicable in the circumstances.

The audit disclosed the following facts in regard to the amount to be paid the Contractor:

Total Cost per MF-104	$54,625.18
Exceptions:	None
Total Accepted Cost	$54,625.18

The contract calls for a 90 percent participation of exploration expenses by the United States Government. Therefore, payment to the Contractor by the Government in the amount of Forty-Nine Thousand One Hundred Sixty-Two and 66/100 Dollars

-$49,162.66-

is valid and proper.

This certificate is issued on the provision that the Regional Executive Officer, the Administrator, or other competent official has accepted or will accept the project as having otherwise met the terms of the contract.

Dated: November 12, 1953

Donald T. Finch
Donald T. Finch, Auditor

mdd

Audit Certificate
November 12, 1953

DEPARTMENT OF THE INTERIOR
Division of Records Administration
RECEIVED
NOV 16 1953

AUDIT REPORT

I. INTRODUCTION

On November 6, 1953, a final audit (covering the period February 1, 1952 to April 30, 1953 was made of the records and accounts of operations pertaining to Contract No. Idm-E236, Docket No. DMA 1631 including Amendments Nos. 1 through 4 with the

Excalibur Uranium Corporation
Vorbeck Building
Grand Junction, Colorado

covering a project of exploration for Uranium Ores located in the Bow Knot Area on the Green River, Emery County, Utah.

The accounting records under the contract are located in the office of Mr. J. D. Vanderploeg, Registered Accountant, Room 935, United States National Bank Building, Denver, Colorado.

During the audit, Mr. Vanderploeg was consulted as required. His cooperation greatly facilitated the audit.

II. GENERAL INFORMATION ON RECORDS

The accounting records for the exploration project are completely integrated, through a modern and apparently comprehensive system covering the company's operations.

The costs applicable to the exploration contract are not, however, segregated into separate general ledger accounts.

The source documents covering the costs of this project are recorded on Monthly Summary sheets, which form the basis for preparation of the Monthly MF-104 reports. This source data is filed separately from other company data in alphabetical or chronological order by months. Disbursements are made on prenumbered voucher checks. Costs are recorded on a combination of cash and accrual basis.

Considerable pre-audit analysis was made prior to the audit.

III. SCOPE OF AUDIT AND FINDINGS

The audit was limited to ascertaining the accuracy, propriety and validity of the costs shown in the "Totals to Date" column of Form MF-104, Operator's Monthly Report and Voucher, as amended by the Operator for the month of April, 1953. In view of the previous audit covering the period February 1 to December 31, 1952, except as otherwise indicated, this audit was restricted to

the costs claimed by the Operator since that latter date. The extent of the audit and the findings under each of the "Items of Costs" follows:

(1) Independent Contracts

Amendment No. 4 to the Exploration Contract, dated April 1, 1953, effective date of the contract, authorized 1300 ft. of Diamond Drilling at an estimated cost of $8000.00. A sub-contract between the Operator and the Boyles Bros. Drilling Company, dated March 16, 1953, was approved in writing by the Executive Officer on May 15, 1953. During the audit, it was determined that the Diamond Drilling, which was performed in March, 1953, was done with the prior knowledge and approval of the DMEA Field Team.

The charge was supported by an invoice from the drilling contractor, consisting of the following items:

Mobilization	$500.00	
1220 Ft. of AX Diamond Drilling at $3.75 per foot	4575.00	
Acceptable total cost of Core Drilling		$5075.00

(2) Labor and Supervision

All charges under this item were checked against the recordings on the Monthly Summary Sheets. Copies of all semi-monthly payrolls were examined as to wage rates, computations and classes of labor to determine conformance with Schedule A of the contract, and Amendments thereto. All Time Card Records for individual employees were examined for the period January 1 to April 30, 1953. Charges during this same period for Supervision were included on the foregoing payrolls. Examination of these charges was made simultaneously with labor charges. Charges for supervision were based on actual reported time devoted to the project.

An analysis of acceptable charges for Labor and Supervision follows:

	Labor	Supervision
Balance December 31, 1952 per previous Audit Report	$11,061.07	$ 3,300.00
Prior Disallowance by Certifying Officer-Reclaimed and Allowed	72.00	
Charges for Period January 1 to April 30, 1953	2,230.47	1,200.00
Accepted Totals	$13,363.54	$ 4,500.00

The charges for Supervision consist of salary of one Foreman at $400.00 per month for 10 months and one mining engineer for one month at $500.00 per month. These supervision charges are considered reasonable and are well within the contract authorization.

(3) Operating Materials and Supplies

All charges against this category were checked against the monthly summary sheets. Charges for Explosives and for Fuel were supported by requisitions. All requisitions issued during the period January 1 to April 30, 1953 were examined. The items charged on requisitions were at actual unit cost as confirmed by Suppliers' invoices which were examined.

All charges for Other Supplies during the period January 1 to April 30, 1953 were supported by invoices which were examined.

The Acceptable Costs for Materials and Supplies applicable to exploration operations are as follows:

	Balance December 31, 1952 per Previous Audit Report	Period Jan. 1 to April 30 1953	Total
Explosives	$914.77	$207.43	$1122.20
Pipe	28.20	---	28.20
Other Supplies			
Fuel Oil & Gasoline	672.86	178.83	851.69
Steel	521.31	---	521.31
Miscellaneous Small Tools & Supplies	32.29	---	32.29
Drill Core Containers	---	107.02	107.02
Total Other Supplies	$1226.46	$285.85	$1512.31
Total Materials & Supplies	$2169.43	$493.28	$2662.71

(4) Operating Equipment

(a) Rental

All charges for equipment rental January 1 to April 30, 1953 were supported by invoices which were examined. Equipment rental applicable to exploration work consisted of the following:

1-TD 24 Tractor with Operator:

Balance December 31, 1953 per Previous Audit Report: 368½ hours at $15.00 per hour.	$5527.50	
January 1953, 121 hours at $15.00-$1815.00		
Feb. 1953, 117 hours at $15.00 - 1755.00	3570.00	
Total Tractor Rental 606½ hrs. at $15.00		$9097.50

1-105 CFM Compressor

Balance December 31, 1953 per previous Audit Report: 3½ Months at $32.80 per month	$114.80	
January 1 to April 30, 1953-2 months at $32.80 per month	65.60	
Total Compressor Rental-5½ months at $32.80		$180.40
Total Acceptable Equipment Rental		$9277.90

(b) Purchases

None claimed.

(c) Depreciation

Not applicable to this contract.

(5) Initial Rehabilitation and Repairs

Not applicable to this contract.

(6) New Buildings and Improvements

The charges applicable to this category are for the construction of three miles of Bulldozer road. The items of costs of $14,839.24 were audited in detail for adequate accounting support, validity and propriety during the previous audit. A condensed summary of the following analysis set forth in the previous audit report follows:

Labor	$8431.93	
Supervision	1500.00	
Materials and Supplies	2965.27	
Equipment Rental	580.00	
Repairs to Equipment	886.03	
Payroll Taxes and Workmen's Compensation Insurance	476.01	
Acceptable Total Costs of New Buildings and Improvements		$14,839.24

(7) Miscellaneous

(a) There were no charges for repairs to equipment claimed during the period January 1 to April 30, 1953. The acceptable cost as listed in the previous audit report amounts to $157.49.

(b) Sampling and Analysis

All charges for sampling and analysis for the period January 1 to April 30, 1953 were supported by invoices which were examined. The acceptable charge consists of:

Balance December 31, 1952 as shown by Previous Audit Report	$140.00
Period January 1 to April 30, 1953	757.00
Total	$897.00

(c) Payroll Taxes

Charges for Payroll Taxes were for F.I.C.A., F. U.C.A. and State Unemployment Insurance. Rates were 1½%, .3% and 2.7% of Payroll adjusted for statutory exemptions. All charges for the period January 1 to April 30, 1953 were confirmed by recomputation. The acceptable costs are as follows:

Balance December 31, 1952 per previous Audit Report		$209.01	
Prior Disallowance by Certifying Officer-Reclaimed and allowed	$3.24		
January 1 to April 30, 1953	154.35	157.59	
Total			$366.60

(d) Workmen's Compensation and Occupational Disease Insurance

Amounts were verified by the application of rates shown on Insurance statements in the Operator's files. These rates ranged from .0087 to .0526 per hundred dollars of payroll. The acceptable costs are as follows:

Balance December 31, 1952 per previous Audit Report	$653.18	
Prior Disallowance by Certifying Officer-reclaimed and allowed	3.58	
January 1 to April 30, 1953	141.31	
Total		$798.07

(e) Bookkeeping (Acceptable Total $487.50)

There were no claims for Bookkeeping costs during the period January 1 to April 30, 1953. The acceptable total was for 6½ months from February 1 to August 31, 1952, at $75.00. The charges were examined in the previous audit, and are considered very reasonable.

(f) Truck and Plane Service

There were no claimed charges in this category during the period January 1 to April 30, 1953. The acceptable total as reported in the previous audit report consisted of the following elements:

Wages Truck Driver	$1730.51	
Wages Pilot	69.75	
Materials, Supplies & Air Freight	280.79	
Payroll Taxes and Workmen's Compensation Insurance	119.08	
Total		$2200.13

IV. CONCLUSIONS

This audit has disclosed that all costs charged to this project, as shown on the Operator's Supplemental MF-104 for April 1953, are reasonable and proper under the terms of the contract, including Exhibit A as amended by Amendments Nos. 1 through No. 4.

The total amounts shown on the Operator's Supplemental MF-104A for April 1953, agree with the companion MF-104.

The Operator has reflected all prior disallowances and adjustments on the Supplemental MF-104 for April, 1953.

The Executive Officer, DMEA Field Team, Region IV, notified the Operator in writing on October 30, 1953, that the Government waives its interest in all property and the unexpended portion of Materials and Supplies acquired under the contract.

The totals to date as shown on the Operator's Supplemental MF-104 for April 1953, are listed below. These totals are accepted by the audit.

	Totals to Date-MF-104 April, 1953
Independent Contracts	
Diamond Drilling	$ 5075.00
Labor and Supervision	
Labor	13363.54
Supervision	4500.00
Operating Materials & Supplies	
Explosives	1122.20
Pipe	28.20
Other	1512.31

	Totals to Date MF-104 April, 1953 (con't)
Operating Equipment	
Rental	$9277.90
New Buildings, Improvements, etc.	14839.24
Miscellaneous	
Repairs to Equipment	157.49
Sampling	897.00
Payroll Taxes	366.60
Workmen's Compensation	798.07
Bookkeeping	487.50
Truck and Plane Service	2200.13
	4906.77
Accepted Total	$54625.18

At the close of the audit, the findings were discussed with Mr. J. D. Vanderploeg, Registered Accountant for the Operator and with Mr. W. H. King, Executive Officer, DMEA Field Team, Region IV.

November 12, 1953

Donald T. Finch

Donald T. Finch, Auditor

DEFENSE MINERALS EXPLORATION ADMINISTRATION
CONTRACT ADMINISTRATION AND AUDIT DIVISION

INTERIM AUDIT CERTIFICATE

I have examined the records and transactions of:

Excalibur Uranium Corporation (Incorporated)
Vorbeck Building
Grand Junction, Colorado

pertaining to Exploration Contract I3m-E236, Docket No. DMA 1631 including Amendments 1 through 3, covering a project of exploration for Uranium ores, for the period February 1, 1952 to December 31, 1952.

My examination was made in accordance with generally accepted standards applicable in the circumstances.

The audit disclosed the following facts in regard to the amount to be paid the Contractor:

Total Cost per MF-104		$41,176.05
Exceptions:		
per Audit Report	$221.88	
Prior to Audit	94.82	316.70
Total Accepted Cost		$40,859.35

The contract calls for a 90 per cent participation of exploration expenses by the United States Government. Therefore, payment to the Contractor by the Government in the amount of Thirty-six thousand seven hundred seventy-three and 41/100 Dollars

-$36,773.41-

is valid and proper.

This certificate is issued on the provision that the Regional Executive Officer, the Administrator, or other competent official has accepted or will accept the project as having otherwise met the terms of the contract.

Dated: April 16, 1953

Donald T. Finch
Donald T. Finch
Auditor

AUDIT CERTIFICATES

I. INTRODUCTION

On April 9, and 10, 1953, an interim audit (covering the period of February 1 to December 31, 1952) was made of the records and accounts of operations pertaining to Contract No. Idm-E236, Docket No. DMA 1631 including Amendments Nos. 1 through 3 with the

Excalibur Uranium Corporation(Incorporated)
Vorbeck Building
Grand Junction, Colorado

covering a project of exploration for uranium ores.

The accounting records under this contract are located in the office of Mr. J. D. Vanderploeg, Registered Public Accountant, Room 935, United States National Bank Building, Denver, Colorado.

The project is located in the Bow Knot Bend Area of the Green River, Emery and Grant Counties, Utah.

During the course of the audit, Mr. Vanderploeg was consulted as required. His cooperation greatly facilitated the audit.

II. GENERAL INFORMATION ON RECORDS

The accounting records for the exploration project are completely integrated, through a modern and apparently comprehensive system covering the company's operations.

The costs applicable to the exploration contract are not, however, segregated into separate general ledger accounts.

The source documents covering the costs of this project are recorded on monthly summary sheets, which form the basis for preparation of the monthly MF-104 reports. This source data is filed separately

from other company data in alphabetical or chronological order by months. Disbursements are made on prenumbered voucher checks. This audit, therefore, involved in general, a check ofthe source documents against the monthly summary sheets and the MF-104 reports. All costs, except for some materials, payroll taxes and workmen's compensation insurance, were recorded on a cash disbursement basis.

III. SCOPE OF AUDIT AND FINDINGS

The audit was limited to ascertaining the accuracy, propriety and validity of the costs as shown in the "Totals to Date" column of Form MF-104, Operator's Monthly Report and Voucher, for the month of December, 1952. The extent of the audit and the findings under each of the "Items of Cost" follows:

(1) Independent Contracts

Not applicable to this contract.

(2) Labor and Supervision

All charges under this item were checked against the recordings on the monthly summary sheets. Copies of all semi-monthly payrolls were examined as to wage rates, computations and classes of labor to determine conformance with Schedule A of the contract and amendments thereto. Time card records for individual employees were test-checked for the entire period. February 1 to December 31, 1952 charges for Supervision were included on the foregoing payrolls. Examination of these charges was made simultaneously with labor charges. Charges for supervision were based on actual reported time

devoted to the project.

The accounting distribution for both labor and supervision was analyzed for the period February 1 to December 31, 1952 and distribution was corrected.

The acceptable total labor charges for exploration work amounted to $11,061.07 and to $3,300.00 for Supervision. The charges for supervision consist of the salary of one Foreman at $400.00 per month for seven months and one mine superintendent for one month at $500.00 per month. These charges are considered reasonable and are well within the contract authorization.

The certifying officer's previous disallowance for duplicate labor charge for Bulldozer operator of $72.00 and for $16.00 supervision charge in excess of authorized monthly rate for foreman is confirmed.

(3) Operating Materials and Supplies

All charges against this category were checked against the monthly summary sheets. An analysis was made to determine the propriety and accounting distribution of the items charged.

Charges for Explosives and for fuel were supported by requisitions. Approximately 45% of all requisitions issued were examined. The items charged on requisitions were at actual unit cost as confirmed by Supplier's invoices which were examined.

All charges for Other operating supplies were supported by invoices. All invoices during the period February 1 to December 31, 1952 were examined and voucher checks were extensively test-checked. Accounting distribution of these items has been corrected in this report.

The acceptable costs for Materials and Supplies applicable to exploration operations are as follows:

Explosives		$914.77
Pipe		28.20
Other Materials & Supplies:		
Fuel, Gasoline, and oil	$672.00	
Steel	521.31	
Miscellaneous Supplies & Small Tools	32.29	1225.46
Total		$2169.43

(4) Operating Equipment

(a) Rental

All charges for equipment rental February 1 to December 31, 1952, were supported by invoices which were examined. Distribution between Exploration and Road Construction was corrected. Equipment rental applicable to exploration work consisted of the following:

1-TD 24 Tractor with Operator:
308½ hrs. at $15.00 per hr.
authorized by Amendment No.
3 effective July 1, 1952

September, 1952	32 hrs.	$480.00	
October, 1952	148 hrs.	2220.00	
November, 1952	83½ hrs.	1252.50	
December, 1952	105 hrs.	1575.00	
Total	308½ hrs.		$5527.50

1-105 CMF Compressor
authorized by Amendment
No. 3. - 3½ months at
$32.80 per month — 114.80
Total — $5642.30

(b) Purchases

The operator has submitted no claims for purchases of equipment during the period February 1 to December 31, 1952.

(c) Depreciation

Not applicable to this contract.

(5) Initial Rehabilitation and Repairs

Not applicable to this contract.

(6) Fixtures and Improvements.

The charges applicable to this category are for the construction of three miles of bulldozer road authorized in Schedule A of the Exploration Contract. Prior to the audit, the charges had not been segregated on the Operator's MF-104 report. The items of costs set forth in the following analysis have all been audited in detail for adequate accounting support, validity, propriety, and are acceptable costs under the terms of the contract.

Labor		$8431.93
Supervision		1500.00
Materials & Supplies		
Explosives	$1036.88	
Fuel, gas, oil, & grease	717.30	
Steel	810.21	
Miscellaneous Small Tools & Supplies	242.27	
Air Hose & Fittings	158.61	2965.27
Equipment Rental		
210CMF Compressor, 2 months at $290.00 per month		580.00
Repairs to Equipment		
Truck Repairs	273.27	
Drill Repairs	301.45	
Compressor Repairs	247.55	
Pump	33.21	
Dozer Equipment	30.55	886.03
Payroll Taxes		152.34
Workmen's Comp. Ins.		323.67
Total		$14,839.24

During the audit, a charge for a long-distance telephone amounting to $4.88 was disallowed.

(7) Miscellaneous

(a) Repairs to Equipment

All charges for repairs to equipment for the period February 1 to December 31, 1952 were supported by invoices which were examined. The accounting distribution for the category has been corrected in this report.

The acceptable charges for repairs to equipment are as follows:

Drills	$94.23	
Compressor	26.55	
*Geiger Counter	36.71	
Total		$157.49

*The Exploration Contract does not list a Geiger counter as exploration equipment. The above repair charge was discussed with the Executive Officer who has approved the charge as an allowable cost because the equipment is a necessary item required daily in this type of exploration.

(b) Sampling and Analysis (Acceptable Total $140.00)

All charges for sampling and analysis for the period February 1 to December 31, 1952 were supported by invoices which were examined.

(c) Payroll Taxes

Charges for Payroll Taxes were for F.I.C.A., F.U.C.A, and State Unemployment Insurance. Rates were 1½%, .3% and 2.7% of Payroll adjusted for statuatory exemptions. The accounting distribution of this category has been corrected in the report. The acceptable total applicable to Exploration of $209.01 was confirmed by computation.

A disallowance of $3.24 by the Certifying Officer made in connection with Labor overcharges also disallowed, is confirmed.

(d) Workmen's Compensation and Occupational Disease Insurance (Acceptable Total $653.18)

The accounting distribution for this category has been corrected in this report. Amounts were verified by application of rates shown on Insurance statements in the operator's files. These rates were; .0526 and .0087 per hundred dollars of payroll.

A disallowance of $3.58 by the Certifying Officer made in connection with Labor overcharges also disallowed, is confirmed.

(e) Bookkeeping (Acceptable total $487.50)

Claimed charges for bookkeeping supported b payroll entries which were examined were for 6½ months at $75.00 per month from February 1 to August 31, 1952. The accounting distribution has been corrected in this report.

(f) Truck and Plane Service

The accounting distribution of charges applicable to this category has been corrected in this report. All charges for the period February 1 to December 31, 1952 were supported either by payrolls or invoices which were examined during the audit.

The acceptable total for this category consisted of the following elements of cost:

Wages Truck Driver	$1730.51
Wages Pilot	69.75
Materials, Supplies & Air Freight	280.79
Payroll Taxes	26.98
Workmen's Compensation & Occupational Disease Insur.	92.10
Total	$2200.13

A charge of $220.00 for air freight on Ferry Sub-Assemblies from Grand Junction, Colorado To Bowknot, Utah, is disallowed. Amendment No. 1 to the Exploration eliminates the provision for installation of a ferry.

IV. CONCLUSIONS AND RECOMMENDATIONS

The total amount shown on the Operator's MF-104A for December 31, 1952, agree with the companion MF-104. This amount should be adjusted for the total disallowances of $316.70.

This audit has disclosed that all costs, as charged to this project, with the exception of the disallowances listed under items:

(2) Labor and Supervision

(6) New Buildings and Improvements, etc.

(7)(c) Payroll Taxes

(7)(d) Workmen's Compensation Insurance

(7)(f) Truck and Plane Service

of the preceding section of this report, are reasonable and proper under the terms of the contract, including Exhibit "A" as amended.

The adjustments between Items of Cost, as shown on the December, 1952, MF-104, the recommended disallowances and approved amounts are summarized as follows:

	Totals to Date MF-104 12/31/52	Distri-bution Corrected	Prev-ious Disallow.	Disal-lowed by audit	Allowed by Audit
Independent Contracts					
None					
Labor and Supervision					
Labor	$22165.26	$11133.07	$72.00		$11061.07
Supervision	4503.50	3316.00	16.00		3300.00
Operating Materials & Supplies					
Explosives	1951.65	914.77			914.77
Pipe	28.20	28.20			28.20
Fuel, gas & oil	605.89				
Steel	2769.43				
Other		1226.46			1226.46
Operating Equipment					
Rental	6222.30	5642.30			5642.30
New Buildings, Improvements, etc.		14841.12		$ 1.88	14839.24
Miscellaneous					
Repairs to Equip.	1325.72	157.49			157.49
Sampling & Analysis	140.00	140.00			140.00
Payroll Taxes	391.57	212.25	3.24		209.01
Workmen's Compensation & Occupational Disease	1072.53	656.76	3.58		653.18
Bookkeeping		487.50			487.50
Truck & Plane Serv.		2420.13		220.00	2200.13
Totals	$41176.05	$41176.05	$94.82	$221.88	$40859.35

The audit also disclosed the status, as of December 31, 1952 of the allowable maximums under this contract was as follows:

	Allowable Maximum	Total as Claimed	Balance
Transportation of Equipment across the Green River	$2500.00	---	$2500.00
3 miles of Bulldozer Road	15000.00	$14841.12	158.88

At the conclusion of the audit, the findings were discussed with Mr. J. D. Vanderploeg, Registered Public Accountant.

April 16, 1953

Donald T. Finch

Donald T. Finch
Auditor

Docket Copy

No. 4

AMENDMENT OF CONTRACT: No. Idm-E236

Contract Docket No. DMA 1631X, dated January 24, 1952, between the United States of America and Excalibur Uranium Corporation is hereby amended as follows, effective as of the date of this contract:

Referring to Exhibit "A" attached to Exploration Project Contract Form MF-200, under Statement of Work, following second paragraph, insert the following paragraph:

> In lieu of a portion of the 900 feet of adits and crosscuts referred to in the preceding paragraph, approximately 1300 feet of diamond drilling at approximate locations, depths, and inclinations as shown on the attached map, may be substituted. Diamond drill cores should be suitably stored in acceptable core boxes for the use of the DMEA representative.

Again referring to Exhibit "A", subtitle Estimate of Costs, Summary, as amended by Amendment No. 1, delete figure $32,700.00 and in lieu thereof substitute $24,700.00. Add the following to Estimate of Costs: "1300 ft. Diamond Drilling, AX or larger size hole, at an estimated total cost of $8,000.00.

Referring to Exhibit "A", subtitle Estimate of Costs, Details, under Operating Equipment, To be purchased, add the following: "Core boxes, sample bags, and other items necessary to bring the diamond drilling project to successful completion--$305.00." Also referring to the same Exhibit, same subtitle, under Miscellaneous cost items, delete the following: "Assaying--$300.00" and insert in lieu thereof "Assaying--$2,100.00."

Referring to Amendment No. 1, dated March 11, 1952, item (7) Labor and Supervision Schedule, add the following: "1 sampler at $370.00 per month for the duration of the drilling program".

This amendment shall not be construed to increase the estimated total cost of the project, the aggregate total amount which the Government may pay or the percentage of the costs which the Government may pay under the provisions of Article 13 of the contract form.

Dated APR 1 1953

Chamber

EXCALIBUR URANIUM CORPORATION

By Peter H. Dominick
Peter H. Dominick, Secretary

UNITED STATES OF AMERICA

By W. H. King
W.H. King, Executive Officer
DMEA Field Team, Region IV

No. 3

AMENDMENT OF CONTRACT: No. Idm-E236

Contract Docket No. DMA 1631X, dated January 24, 1952, between the United States of America and The Excalibur Uranium Corporation is hereby amended as follows, effective July 1, 1952:

Referring to Amendment No. 2 dated July 1, 1952, which amended Article "3. Exploration Project" of Exploration Project Contract Form MF-200, void first said Amendment in its entirety.

Referring to Article "3. Exploration Project" of Exploration Project Contract Form MF-200, following the words "all properly designed to bring the project to completion within a period of", delete the words "six months" and in lieu thereof substitute the following: "fifteen (15) months".

Referring to "Annex I to Contract" attached to Exploration Project Contract Form MF-200, delete all matter pertaining to the "Aileen" group of claims and in lieu thereof substitute the following:

Aileen No. 1	Utah	Emery	J-9	374	77383	May 25, 1951
Aileen No. 2	Utah	Emery	J-9	374	77384	May 25, 1951
Aileen No. 4	Utah	Emery	J-9	375	77386	May 25, 1951
Aileen No. 5	Utah	Emery	J-9	376	77387	May 25, 1951
Aileen No. 6	Utah	Emery	J-9	376	77388	May 25, 1951
Aileen No. 7	Utah	Emery	J-9	408	---	June 4, 1951 *
Aileen No. 8	Utah	Emery	J-9	408	---	June 4, 1951 *
Aileen No. 9	Utah	Emery	J-9	408	---	June 4, 1951 *

* As amended August 25, 1952 and recorded in Book J-10, Pages 324, 325 and 326.

Referring to "EXHIBIT "A" attached to Exploration Project Contract Form MF-200, caption "Statement of the Work", subheading "Aileen No. 1 claim", delete the figure "1" from said subheading and in lieu thereof substitute the figure "8".

Referring to the same "EXHIBIT "A", same caption, add the following:

"If after a part of the drifting and crosscutting has been accomplished and the results are unsatisfactory the unexpended balance of funds allocated to such

Bd

drifting and crosscutting may be expended in additional rim stripping to expose favorable areas on the Aileen, Willow, and Danise groups of claims. Such additional stripping shall be at locations acceptable to, and to the extent approved by, the DMEA representative."

Referring to the same "EXHIBIT "A", caption "Estimate of Costs", subcaption "Details", heading "Operating equipment", subheading "To be rented", add the following:

1 - Tractor-bulldozer (TD-24 or equivalent) with operator @ $15.00 per hour	$15,840.00
1 - Compressor (105-CFM) @ $32.80 per month	196.00

This amendment shall not be construed to increase the estimated total cost of the project, the aggregate total amount which the Government may pay or the percentage of the costs which the Government may pay under the provisions of Article 13 of the contract form.

Dated November 17 1952.

THE EXCALIBUR URANIUM CORPORATION

By Peter A. Dominick
Secretary

UNITED STATES OF AMERICA

By W. H. King
Executive Officer, DMEA
Field Team, Region IV

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
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Docket copy
Uranium

No. 2

AMENDMENT TO CONTRACT: No. Idm-E236

Contract Docket No. DMA 1631X, dated January 24, 1952, between the United States of America and The Excalibur Uranium Corporation is hereby amended as follows, effective as of the date of said contract:

> Referring to Article "3. Exploration Project" of Exploration Project Contract Form MF-200, following the words "all properly designed to bring the project to completion within a period of", delete the words "six months" and in lieu thereof substitute the words "nine (9) months".

This amendment shall not be construed to increase the estimated total cost of the project, the aggregate total amount which the Government may pay or the percengage of the costs which the Government may pay under the provisions of Article 13 of the contract form.

Dated July 1, 1952.

THE EXCALIBUR URANIUM CORPORATION

By Peter A. Dominick
Secretary

UNITED STATES OF AMERICA

By W. H. King
Executive Officer - DMEA

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JWO 7-16-52

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No. 1
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AMENDMENT OF CONTRACT: No. Idm-E236

Contract Docket No. DMA 1631X, dated January 24, 1952, between the United States of America and Excalibur Uranium Corporation, is hereby amended as follows, effective as of the date of this contract:

1. Referring to Exhibit "A" attached to Exploration Project Contract Form MF-200, under title Statement of Work, first paragraph, second sentence, after the words: "The Operator will also construct", insert the following: "at his own expense."

2. Referring to the same paragraph, add at the end of the paragraph the following: "Moab, Grand Junction, or other supply points."

3. Referring to Exhibit "A" under title Statement of Work, subtitle First Quarter, delete the following: "and install ferry".

4. Referring to Exhibit "A" under title Estimate of Costs, subtitle Summary, delete the following: "Transport of equipment across Green River (barge ferry)", insert in lieu thereof the following: "Actual expenses of transporting equipment across the Green River, but not to exceed $2,500.00 are allowable costs of the project."

5. Under the same title and subtitle, delete the following: "Consulting engineer, 15 days @ $80.00 per diem - 1,200.00" and the figure $31,500.00." Insert in lieu of the figure $31,500.00, the figure $32,700.00.

6. Referring to Exhibit "A" under title Details, subtitle Fixtures and Improvements, delete the following: "10% of cost of ferry across Green River, $2500.00" and insert in lieu thereof the following: Transportation of equipment across Green River, a maximum of $2500.00.

7. Referring to Exhibit "A" under title Details, subtitle Labor and Supervision, delete the entire schedule. Insert in lieu thereof the following:

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8 Miners at $18.00 per day
6 Muckers at $16.00 per day
6 Laborers at $16.00 per day
1 Bulldozer Operator at $18.00 per day
1 Loader Operator at $18.00 per day*
1 Patrol Operator at $18.00 per day*
1 Truck Driver at $15.75 per day
1 Cook at $300.00 per month
1 Road Superintendent at $500.00 per month*
1 Mine Superintendent at $500.00 per month
1 Foreman at $400.00 permonth

1 Bookkeeper at $75.00 per month
1 Pilot at $4.00 per hour
1 Mechanic at $3.50 per hour**
1 Welder with equipment at $5.00 per hour**

The above hourly wages are based on an 8-hour day, 5-day week, with time and one-half for overtime.

*These wages and salary were included in the estimated cost of the road.

**These wages are to be prorated between the cost of the project and other work of The Excalibur Uranium Corporation on the basis of time actually expended for the benefit of each.

Estimated cost of labor and supervision $20,[illegible].00

2. Referring to Exhibit "A" under title Details, subtitle Miscellaneous cost items delete the following: Consulting Engineer, up to 15 days @ $80.00 per diem, 1,200.00. Also delete the figure 16,[illegible].00. Insert in lieu thereof the figure 15,[illegible].00.

This amendment shall not be construed to increase the estimated total cost of the project, the aggregate total amount which the Government may pay or the percentage of the costs which the Government may pay under the provisions of Article 13 of the contract form.

Dated March 11, 1952.

THE EXCALIBUR URANIUM CORPORATION UNITED STATES OF AMERICA

By Peter Dominick
Secretary

By J. H. Ernst
Executive Officer - BMR

JHE

1 Bookkeeper at $[illegible] per month
1 Pilot at $[illegible] per hour
1 Mechanic at $[illegible] per hour*
1 Welder with equipment at $[illegible] per hour**

The above hourly wages are based on an 8 hour day, 5-day week, with time and one-half for overtime.

*Fringe wages and salary were included in the estimated cost of the work.

**These wages are to be prorated between the cost of the project and other work of the Brooklyn Navy Yard on the basis of time actually expended for the benefit of each.

Estimated cost of labor and supervision $[illegible]

3. Referring to Exhibit "A" under title Dredging, available Minor Channels cost items delete the following: Commanding Engineer, up to 15 days @ $[illegible] per diem, 1,[illegible]. Also delete the figure 1[illegible]. Insert in lieu thereof the figure 1[illegible].

This amendment shall not be construed to increase the estimated total cost of the project, the aggregate total amount which the Government may pay or the percentage of the costs which the Government may pay under the provisions of Article II of the contract form.

Dated _____ 11 _____, 1932.

THE NATIONAL CAPITAL PARK AND PLANNING COMMISSION

By _____
Secretary

By _____
Executive Officer - PWA

MF-200
(June 1951)

Docket No. DMA 1631
Commodity Uranium
Idm-E236

Docket Copy
(Mails a Files)

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

EXPLORATION PROJECT CONTRACT [1]

It is agreed this 24 day of January, 1952, between the United States of America, acting through the Department of the Interior, Defense Minerals Administration, hereinafter called the "Government," and [2] The Excalibur Uranium Corporation (Incorporated), Perfect Building, Grand Junction, Colorado

hereinafter called the "Operator," as follows:

1. *Authority for contract.* This agreement is entered into under the authority of the Defense Production Act of 1950, pursuant to Mineral Order 5, entitled "Regulations Governing Government Aid in Defense Exploration Projects."

2. *Operator's property rights.* The exploration project shall be conducted on that certain property situated in the State of Utah County of Grey described as follows: [3] 18 unpatented mining claims located in the mountains [illegible] and described in attached "Annex I"

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with respect to which the Operator represents and undertakes: [4]

(*a*) That he is the sole owner, in possession and entitled to possession, and that the property is subject only to the following claims, liens, or encumbrances as to each of which the subordination agreement of the holder is attached: None

(*b*) That he is a lessee, in possession and entitled to possession, and the subordination agreement of the lessor is attached.

3. *Exploration project.* The Operator within Ninty days from the date of this contract shall commence work on a project of exploration for [5] uranium ores; shall prosecute the work efficiently, expertly, in a workmanlike manner, in accordance with good mining standards, with suitable and adequate equipment, materials, and labor, all properly designed to bring the project to completion within a period of [6] six months from the date of this contract. The exploration project and the work to be performed are more fully described on Exhibit "A" attached hereto, which, with any maps or drawings thereto attached, is made a part of this contract.

4. *Performance of the work.* The work shall be performed by the Operator, under his sole direction and control: *Provided,* That with the consent of the Government and its written approval of the contract or contracts, all or any part of the work may be performed by the Operator through contract or contracts with independent contractors. The Government shall have the right to enter and observe and inspect the work at all reasonable times, and the Operator shall provide the Government with all available means for doing so. The Government may consult with and advise the Operator on all phases of the work.

5. *Fixtures and improvements.* The Operator shall devote the land and all existing improvements, facilities, buildings, installations, and appurtenances to the purposes of the exploration project without any allowance for the use, rental value, depreciation, depletion, or other cost of acquiring, owning, or holding possession thereof. Any additional facilities, buildings, and fixtures, to be purchased, installed, or erected by the Operator, with the estimated cost of each, to which the Government will contribute currently its agreed pro rata share, are listed in Exhibit "A" attached hereto. The difference between the cost of such additional facilities, buildings, or fixtures, and the salvage value thereof at the conclusion of the work, shall be charged as a cost of the project to which the Government has contributed its pro rata share.

6. *Operating equipment.* Any operating equipment to be rented, purchased, or furnished by the Operator, with the allowable rental, purchase price, or depreciation, as the case may be, is listed under appropriate headings in Exhibit "A" attached hereto. As to equipment purchased for the project, the Government will contribute its agreed pro rata share of the cost thereof, and the difference between the cost and the salvage value at the conclusion of the work shall be charged as a cost of the project to which the Government has contributed its pro rata share.

[1] If sufficient space is not provided in any blank, use an extra sheet of paper and refer to it in the blank.
[2] State name, address, and nature of organization if any.
[3] Give legal description or enough to identify the property.
[4] Strike out the provision not applicable.
[5] Name of mineral.
[6] Not in excess of 2 years.

7. *Title to and disposition of property.* All facilities, buildings, fixtures, equipment, or other items costing more than $50 each, paid for or purchased with funds contributed jointly by the Operator and the Government, shall belong to the Operator and the Government jointly, in proportion to their respective contributions, and upon the termination of the contract, if they have any salvage value, shall be disposed of for their joint account unless the Government, in writing, waives its interest in any such items. The Government may require the dismantling, severance from land, and removal of any such items in order to realize its interest in the salvage value thereof, and the cost of any such removal and of the disposal of the items shall be for the joint account of the parties in proportion to their respective interests.

8. *Labor and supervision.* An itemized schedule of labor, by numbers and classes (miners, muckers, millmen, etc.), and of supervisors, by numbers and positions, with the maximum wages or salaries that may be paid to each as an allowable cost of the project is set forth in Exhibit "A" attached hereto.

9. *Rehabilitation and repairs.* A statement of the cost of any necessary rehabilitation or repairs to put existing facilities, buildings, installations, and fixtures into useful and operable condition and which are to be allowed as costs of the project is included in Exhibit "A."

10. *Allowable costs of the project.* The costs of the project in which the Government will participate are limited to the necessary, reasonable, direct costs of performing the exploration work, including the costs of materials, supplies, engineering, power, water, analytical work, accounting, and utilities, including items of equipment costing less than $50 each; and the costs referred to in Articles 5, 6, 8, and 9, and the exhibits annexed to and referred to in this contract. Although the Government may pay part of the cost of new or additional facilities, structures, buildings, and equipment, only the depreciation on such items, computed as indicated in Articles 5 and 6, will be charged as a cost of the project. No items of general overhead, corporate management, interest, taxes, or any other indirect costs not expressly allowed by these provisions, or work performed or costs incurred before the date of this contract, shall be allowed as costs of the project in which the Government will participate.

11. *Accounts and audits.* The Operator shall keep suitable records and accounts of operations, which the Government may inspect and audit at any time. The Government may at any time require an audit of the Operator's records and accounts by a certified public accountant, the cost thereof to be treated as a cost of the project. The Operator shall keep and preserve said records and accounts for at least 3 years after the completion of the project or the termination of this contract.

12. *Progress reports.* The Operator shall provide the Government with monthly reports of work performed under the contract upon forms to be provided by the Government. Each monthly progress report shall bear the certification of the Operator and shall constitute the Operator's invoice of costs incurred on the project during the period covered by the report.

13. *Payment to the Operator.* The monthly progress report (invoice), to the extent approved by the Government, shall be processed for payment by the Government. Payment shall be made in the amount of 90 percent of the approved costs incurred; *Provided,* That the aggregate total of all sums paid by the Government under this agreement shall not exceed $ 53,763.70, which is 90 percent of the agreed estimated total cost of this project, $ 59,293.00.

14. *Final reports by Operator.* Upon completion of the project or termination of this contract, the Operator shall provide the Government with a comprehensive geologic and engineering report, including an estimate of ore reserves, to the best of his ability. Four copies of all reports shall be furnished to the Government.

15. *Repayment by Operator.* If, upon the completion of the exploration project or termination of the contract, the Government considers that a discovery or development has resulted from the work from which commercial production of ore may be made, the Government, within 6 months thereafter, shall so certify to the Operator, particularly describing and delimiting its estimate of the discovery or the development. Thereafter, if and as ore is produced as a result of such discovery or development, the Operator and his successor in interest shall be and become obligated to pay to the Government a percentage royalty on the net smelter returns or other net proceeds realized from such ore, concentrates, or metal produced within ten (10) years from the date of this contract, until the total amount contributed by the Government, without interest, is fully repaid or said 10 years have elapsed, whichever occurs first, as follows:

Of net smelter returns or other net proceeds not in excess of eight dollars ($8.00) per ton of ore: One and one-half (1½) percent.

Of net smelter returns or other net proceeds in excess of eight dollars ($8.00) per ton of ore: One and one-half (1½) percent, plus one-half (½) percent for each additional full fifty cents ($0.50) in excess of eight dollars ($8.00) per ton of ore, but not in excess of a maximum of five (5) percent.

This obligation to repay from net returns or proceeds shall be and remain a claim and lien upon the mineral deposit which is the subject of the exploration project and upon any production resulting from such discovery or development, in favor of the Government, until fully paid, or until said 10-year period has elapsed; and this claim and lien and the Government's right to repayment shall survive any termination of the contract, whether by completion of the exploration project or otherwise. This article is not to be construed as imposing any obligation on the Operator or his successor in interest to produce ore from any such discovery or development.

16. *No assignment of contract.* Without the written consent of the Government, the Operator shall not assign or otherwise transfer or hypothecate this contract or any rights thereunder.

17. *Termination and completion.* The Government may, at any time, by written notice to the Operator, terminate this contract: (*a*) If the Operator fails to provide his share of the money necessary to prosecute operations pursuant to the terms of the contract; (*b*) if the Operator, in the opinion of the Government, fails to prosecute operations pursuant to the terms of the contract; or (*c*) if in the opinion of the Government, operations up to the time of the notice have not indicated the probability of making any worthwhile discovery and in the opinion of the Government further operations are not justified. Upon the completion of the project or any termination of the contract the Operator shall render to the Government a full and final accounting of his operations under the contract and his expenditures of money; shall dispose of any unused materials, supplies, and equipment for the joint account of the Operator and the Government in the proportion of their respective interests; and shall pay to the Government its pro-rata share of any money remaining.

Executed in sextuplicate the day and year first above written.

Silver Crown Corporation
(Operator)

By [signature]

THE UNITED STATES OF AMERICA

By [signature]
Acting Administrator, Strategic Minerals Exploration Administration

(Approved for form only)

U. S. GOVERNMENT PRINTING OFFICE 16-64066-2

ANNEX I TO CONTRACT

BON-KNOT AREA CLAIMS

CLAIM	STATE	COUNTY	BOOK	PAGE	ENTRY NO.	DATE ENTERED
Willow No. 1	Utah	Emery	J-9	358	77349	May 25, 1951
Willow No. 2	Utah	Emery	J-9	358	77350	May 25, 1951
Willow No. 3	Utah	Emery	J-9	359	77351	May 25, 1951
Willow No. 4	Utah	Emery	J-9	359	77352	May 25, 1951
Willow No. 5	Utah	Emery	J-9	360	77353	May 25, 1951
Willow No. 6	Utah	Emery	J-9	360	77354	May 25, 1951
Danise No. 1	Utah	Emery	J-9	369	77371	May 25, 1951
Danise No. 2	Utah	Emery	J-9	369	77372	May 25, 1951
Danise No. 3	Utah	Emery	J-9	370	77373	May 25, 1951
Danise No. 4	Utah	Emery	J-9	370	77374	May 25, 1951
Danise No. 5	Utah	Emery	J-9	371	77375	May 25, 1951
Danise No. 6	Utah	Emery	J-9	371	77376	May 25, 1951
Aileen No. 1	Utah	Emery	J-9	374	77383	May 25, 1951
Aileen No. 2	Utah	Emery	J-9	374	77384	May 25, 1951
Aileen No. 3	Utah	Emery	J-9	375	77385	May 25, 1951
Aileen No. 4	Utah	Emery	J-9	375	77386	May 25, 1951
Aileen No. 5	Utah	Emery	J-9	376	77387	May 25, 1951
Aileen No. 6	Utah	Emery	J-9	376	77388	May 25, 1951

EXHIBIT "A"

Statement of the Work

The Operator will construct a road from the top of the rim to the edge of Green River, a distance of approximately three miles, the road to be constructed at the minimum cost required to provide safe passage for an HD-19 bulldozer and the other equipment to be used on the project. The Operator will also construct a barge ferry across the Green River to be used in transporting the necessary equipment to the site of the project. Until road and ferry are completed, men and supplies will be brought in by airplane from Green River.

The work at the project site will consist of the bulldozing of approaches to the adit sites (approximately 100 hours of bulldozing), the bulldozing of approximately 5,000 feet of rim to uncover the outcropping of the Shinarump formation (approximately 200 hours of bulldozing), the erection of a bunkhouse for the Willow No. 1 workings, and the driving of 900 feet of adits and crosscuts (approximate cross section to be 7' x 5'6") as follows:

Aileen No. 1 Claim, two 100-foot adits (100 feet apart), one connection crosscut 100 feet long, approximately 50 feet from the portals and two stubs of 10 feet each for slusher mucking of the crosscut.

Willow No. 1 Claim, two 100-foot adits (100 feet apart), one connecting crosscut, 100 feet long, approximately 50 feet from the portals and two stubs of 10 feet each for slusher mucking of the crosscut.

Denise No. 1 Claim, extend existing adits 100 feet each, one connecting crosscut, 40 feet long, approximately halfway down the new drifts and two stubs of 10 feet each for slusher mucking of the crosscut.

Time Schedule. It is estimated that work shall begin within thirty days and be completed within six months following approval of the contract.

First Quarter. Complete three miles of road and install ferry; perform approximately 100 hours of bulldozing work; drive approximately 500 feet of adits and crosscuts.

Second Quarter. Perform approximately 200 hours of bulldozing work and drive approximately 400 feet of adits and crosscuts, completing the project.

Estimate of Costs

Summary

Three miles of bulldozer road to river - not to exceed $5,000 per mile	$15,000.00
Transport of equipment across Green River (barge ferry)	2,500.00
Bunkhouse for Willow claim workings	1,500.00
300 Hours of bulldozing at average of $11.00 per hour	3,300.00
900 feet drifts and crosscuts at $35.00 per foot (includes estimated allowance of $5.00 per foot for timbering)	31,500.00
Purchase of pumps, storage tanks, water tanks	1,493.00
Consulting engineer, 15 days @ $80.00 per diem	1,200.00
Assaying	300.00
Plane and truck service	2,500.00
Total estimate	$59,293.00

Details

Fixtures and improvements

Bunkhouse for Willow workings, erected cost	$ 1,500.00	
10% of cost of ferry across Green River	2,500.00	
Bulldozer road, 3 miles @ $5,000 per mile	15,000.00	19,000.00

Operating equipment

To be rented

1—210 CFM portable compressor, two months @ $290.00 per month	580.00

DMA 1631
E 236
The Excalibur Uranium Corp.

To be supplied by Operator		
1—Airplane, value $6,000, three hours daily for three months, @ $150.00 per month	$ 450.00	
1—Heavy truck, value $8,000, two hours daily for three months, or 150 hours @ $1.00 per operating hour	150.00	
2—210 CFM portable compressors, two months @ $60.00 per month each	240.00	
6—Jackhammers, mounted, with all accessories, two months @ $10.00 per month each	120.00	
6—Mine cars, two months @ $6.00 per month each	72.00	
3—Slusher hoists, two months @ $15.00 per month each	90.00	
1—HD-19 Bulldozer, 200 hours @ $2.00 per operating hour	400.00	
1—D-4 Bulldozer, 100 hours @ $0.70 per operating hour	70.00	$ 1,592.00
To be purchased		
Water pump, complete with motor	725.00	
4—Water tanks, complete, $80.00 each	320.00	
4—500 gallon storage tanks, $112.00 each	448.00	
750 feet track (16 pound rail)	670.00	
750 feet 2-inch pipe	300.00	
750 feet 1-inch pipe	150.00	2,613.00

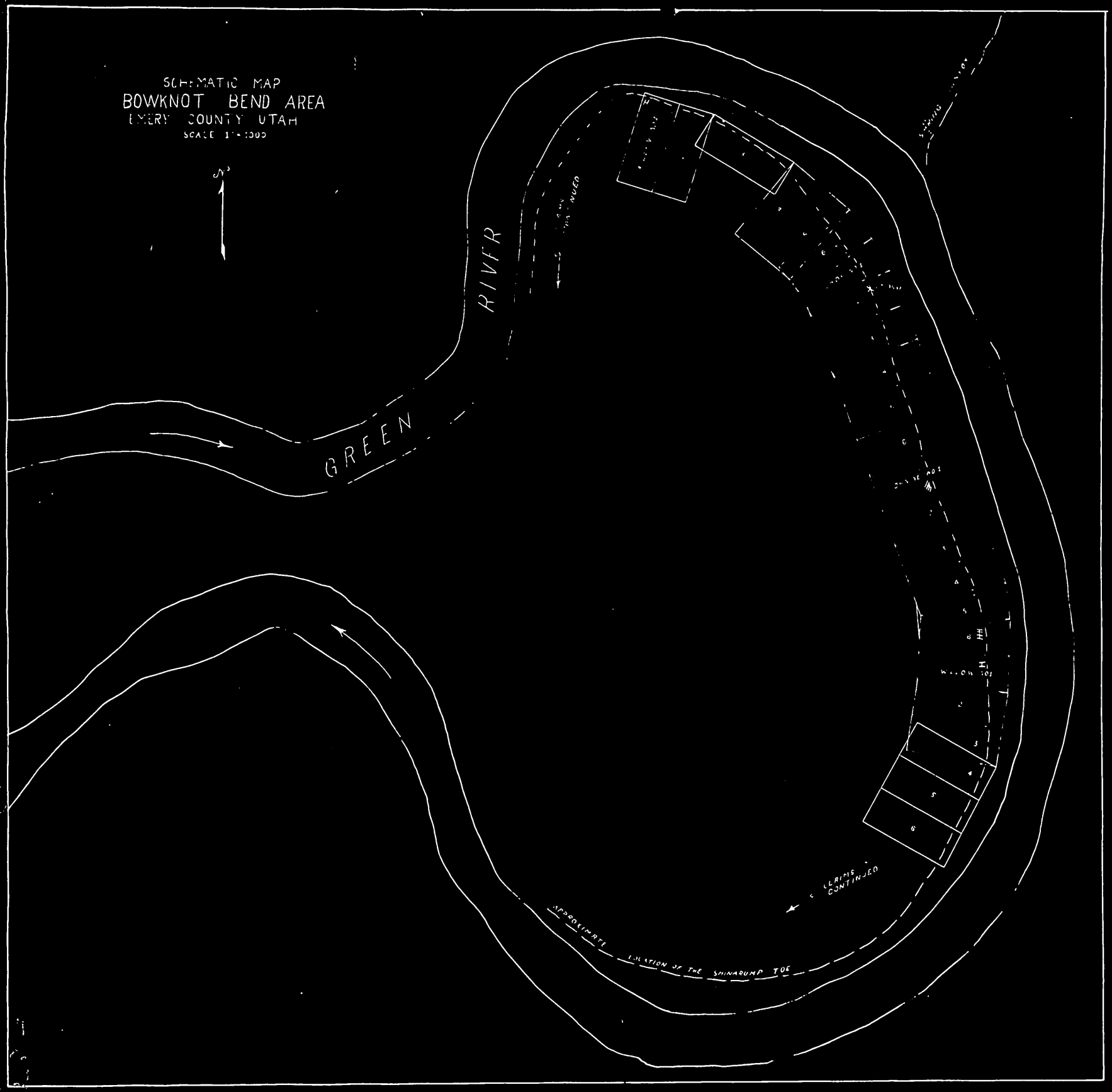
54

Labor and supervision

8—Miners, 40 shifts each, $18.00 per shift	$ 5,760.00	
12—Muckers and general, 40 shifts each, $15.00 per shift	7,200.00	
1—Cook, when working on project (not over three months' total time) @ $300.00 per month	900.00	
1—Supervisor, when working on project (not over three months' total time) at rate of $600.00 per month	1,800.00	
1—Supervisor, when working on project (not over three months' total time), at rate of $500.00 per month	1,500.00	
1—Bulldozer operator, 300 hours @ $2.50 per hour	750.00	
1—Truckdriver, 150 hours @ $2.00 per hour	300.00	
1—Pilot, 225 hours @ $4.00 per hour	900.00	$19,110.00

Miscellaneous cost items

Fuel, lubrication, repairs, payroll taxes and all contingencies for plane, HD-19 dozer, D-4 dozer and heavy truck	2,780.00	
Timber, fuel, oil, steel and bits, hand tools, repairs, payroll taxes and all contingencies connected with drifting and crosscutting	12,118.00	
Consulting Engineer, up to 15 days @ $80.00 per diem	1,200.00	
Assaying	300.00	16,398.00
Total estimate		$59,293.00


SCHEMATIC MAP
BOWKNOT BEND AREA
EMERY COUNTY UTAH
SCALE 1" = 1000
N
GREEN
RIVER
CLAIMS CONTINUED
APPROXIMATE LOCATION OF THE SHINARUMP TOE

ANNEX TO CONTRACT

BOW KNOT AREA CLAIMS

CLAIM	STATE	COUNTY	BOOK	PAGE	ENTRY NO.	DATE ENTERED
Willow No. I	Utah	Emery	J-9	358	77349	May 25, 1951
Willow No. 2	Utah	Emery	J-9	358	77350	May 25, 1951
Willow No. 3	Utah	Emery	J-9	359	77351	May 25, 1951
Willow No. 4	Utah	Emery	J-9	359	77352	May 25, 1951
Willow No. 5	Utah	Emery	J-9	360	77353	May 25, 1951
Willow No. 6	Utah	Emery	J-9	360	77354	May 25, 1951
Danise No. I	Utah	Emery	J-9	369	77371	May 25, 1951
Danise No. 2	Utah	Emery	J-9	369	77372	May 25, 1951
Danise No. 3	Utah	Emery	J-9	370	77373	May 25, 1951
Danise No. 4	Utah	Emery	J-9	370	77374	May 25, 1951
Danise No. 5	Utah	Emery	J-9	371	77375	May 25, 1951
Danise No. 6	Utah	Emery	J-9	371	77376	May 25, 1951
Aileen No. I	Utah	Emery	J-9	374	77383	May 25, 1951
Aileen No. 2	Utah	Emery	J-9	374	77384	May 25, 1951
Aileen No. 3	Utah	Emery	J-9	375	77385	May 25, 1951
Aileen No. 4	Utah	Emery	J-9	375	77386	May 25, 1951
Aileen No. 5	Utah	Emery	J-9	376	77387	May 25, 1951
Aileen No. 6	Utah	Emery	J-9	376	77388	May 25, 1951

:15

Mr. Gordon:

Long distance call from Denver fromMr. Peter Dominic. Would you call Operator 48 in Denver.

Ex Calibut

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
1600 EAST FIRST SOUTH STREET
SALT LAKE CITY 1, UTAH

DEFENSE MINERALS ADMINISTRATION WASHINGTON, D. C.
OCT 26 3 48 PM '51

October 23, 1951

Mr. E. R. Gordon
Minor and Rare Metals Branch
Defense Minerals Administration
Department of the Interior
Washington 25, D. C.

Dear Mr. Gordon:

As requested in your telephone conversation of September 28, 1951, this office has secured a listing of the book, page, entry number and the county where the claims involved in the proposed exploration on the Excalibur Uranium Corp. property are filed. The original list is attached.

You also indicated that a claim map of the area where the proposed work was to be done was required. I requested this from Excalibur, but this map was not forwarded with the list. This office will write the corporation regarding this and forward the map when we receive it.

Sincerely,

H. K. Thurber, Jr.

H. K. Thurber, Jr.

OFFICIAL FILE COPY

Enclosure

To	Init.	Date
330	gf	10/26

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
1600 EAST FIRST SOUTH STREET
SALT LAKE CITY 1, UTAH

October 23, 1951

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Minor and Rare Metals Branch
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Washington 25, D. C.

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Sincerely,

H. K. Thurber, Jr.

Enclosure

EXCALIBUR URANIUM CORPORATION
132 SOUTH FOURTH ST. : TELEPHONE 1953
GRAND JUNCTION, COLORADO

Annex to Contract

BOW KNOT AREA CLAIMS

CLAIM	STATE	COUNTY	BOOK	PAGE	ENTRY NO.	DATE ENTERED
Willow No. I	Utah	Emery	J-9	358	77349	May 25, I95I
Willow No. 2	Utah	Emery	J-9	358	77350	May 25, I95I
Willow No. 3	Utah	Emery	J-9	359	7735I	May 25, I95I
Willow No. 4	Utah	Emery	J-9	359	77352	May 25, I95I
Willow No. 5	Utah	Emery	J-9	360	77353	May 25, I95I
Willow No. 6	Utah	Emery	J-9	360	77354	May 25, I95I
Danise No. I	Utah	Emery	J-9	369	7737I	May 25, I95I
Danise No. 2	Utah	Emery	J-9	369	77372	May 25, I95I
Danise No. 3	Utah	Emery	J-9	370	77373	May 25, I95I
Danise No. 4	Utah	Emery	J-9	370	77374	May 25, I95I
Danise No. 5	Utah	Emery	J-9	37I	77375	May 25, I95I
Danise No. 6	Utah	Emery	J-9	37I	77376	May 25, I95I
Aileen No. I	Utah	Emery	J-9	374	77383	May 25, I95I
Aileen No. 2	Utah	Emery	J-9	374	77384	May 25, I95I
Aileen No. 3	Utah	Emery	J-9	375	77385	May 25, I95I
Aileen No. 4	Utah	Emery	J-9	375	77386	May 25, I95I
Aileen No. 5	Utah	Emery	J-9	376	77387	May 25, I95I
Aileen No. 6	Utah	Emery	J-9	376	77388	May 25, I95I

EXHIBIT A

Exploration Project

Complete three miles of road to the Green River and install a ferry across the river to permit facile entry of heavy equipment and supplies; bulldoze approaches to adit sites (100 hours bulldozing) and bulldoze approximately 5,000 feet of surface rim work to seek outcropping of mineralization (200 hours bulldozing); erect bunkhouse for the Willow #1 workings; drive 900 feet of adits and crosscuts as follows:

Aileen No. 1 Claim, two 100-foot adits (100 feet apart), one connecting crosscut 100 feet long, approximately 50 feet from the portals and two stubs of 10 feet each for slusher mucking of the crosscut.

Willow No. 1 Claim, two 100-foot adits (100 feet apart), one connecting crosscut, 100 feet long, approximately 50 feet from the portals and two stubs of 10 feet each for slusher mucking of the crosscut.

Danise No. 1 Claim, extend existing adits 100 feet each, one connecting crosscut, 40 feet long, approximately halfway down the new drifts and two stubs of 10 feet each for slusher mucking of the crosscut.

~~All adits to be timbered and be approximately 5 ft. 6" high.~~

Time Schedule. It is estimated that work shall begin within thirty days and be completed within six months following approval of the contract.

First Quarter. Complete three miles of road and install ferry; perform approximately 100 hours of bulldozing work; drive approximately 500 feet of adits and crosscuts.

Second Quarter. Perform approximately 200 hours of bulldozing work and drive approximately 400 feet of adits and crosscuts, completing the project.

Estimated Costs.

Three miles of road to river	$15,000.00*
Ferry across Green River	2,500.00*
Bunkhouse for Willow workings	1,500.00*
300 hours of bulldozing @$11.00 per hour	3,300.00
900 feet of drifts and crosscuts @$35 per ft.	31,500.00**
Purchase of pumps, storage tanks, etc.	1,493.00
~~Consulting, sampling, assaying~~ Mining Consult. Engineer	~~1,500.00~~ 1200.00
Plane and truck service samples, assays	2,500.00 300.00
Total estimated cost of project	$59,293.00

* Only if judged necessary by Government field engineers.

** Includes estimated $5.00 per foot for timbering.

Fixtures and Improvements

Bunkhouse for Willow workings	$ 1,500.00
Ferry across Green River	2,500.00
Three mile road extension to ferry	15,000.00

10% fees of

Operating Equipment

To be rented.

210 CFM portable compressor, 5 months $290 per month (Alternatively, 3 compressors of same size for 1-2/3 months each).	$ 1,450.00
6 Jackhammers, mounted, with accessories, 1-1/2 months each, $68.75 each per mo.	618.75
3 Air receivers, 1-1/2 months each, $33.00 each per month	148.50
6 Mine cars, 1-1/2 months each, $26.00 each per month	234.00
3 Slusher hoists, 1-1/2 months each, $93.25 each per month	419.50
*1 Airplane - ~~225 hours at $8.00 per operating hour, including labor, operation and maintenance~~ 225 hours @ $8.00 per operating hour, including operator's maintenance, repairs, and all incidentals	1,800.00

* For service of men and supplies before road is completed; thenceforth only as Government engineers deem necessary.

Note: If any of proposed equipment to be rented is actually owned by operator, standard depletion allowance of 1/60 replacement cost per month must be allowed instead of rental rates.

To be supplied by operator.

1 HD-19 bulldozer and 1 D-4 bulldozer, 300 hours at $11.00 per operating hour, including labor, operation and maintenance.	3,300.00
1 Truck - 125 hours at $5.00 per operating hour, including labor, operation and maintenance.	750.00

To be purchased.

~~Ferry across Green River~~	~~2,500.00~~
Water pump, complete	725.00
4 Water tanks, complete, $80 each	320.00
4 - 500 gallon storage tanks, $112 each	448.00

Labor and Supervision

8 Miners	$ 18.00 per diem
12 Muckers and general	15.00 per diem
1 Cook (part time)	300.00 per month
1 Supervisor, when working on project, at rate of	600.00 per month
1 Supervisor, when working on project, at rate of	500.00 per month
1 Consulting engineer, when actually employed	80.00 per diem*

* Not over 15 days total time and only if deemed necessary by Government field engineers.

Rehabilitation and Repairs

Not applicable.

Dma - 1631 X

EXCALIBUR URANIUM CORPORATION

Vorbeck Building
Grand Junction, Colorado.

May 31, 1951.

Defense Minerals Administration,
Department of the Interior
Washington 25, D. C.

re: EXPLORATION AID APPLICATION
UNDER MINERAL ORDER 5.

Gentlemen:

We enclose herewith an original and thre signed copies of Form MF 103.

We would appreciate it if you would notify us as soon as possible of any corrections or additions you would like to have submitted.

Sincerely yours,

EXCALIBUR URANIUM CORPORATION.

by

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
Postmarked 5/31/51
JUN 5- 1951
LANDON F. STROBEL
Executive Secretary

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.
Approval expires 6-30-51.

APPLICATION FOR AID FOR AN EXPLORATION PROJECT PURSUANT TO MINERAL ORDER 5, UNDER DEFENSE PRODUCTION ACT OF 1950

DO NOT FILL IN THIS BLOCK

Docket No. Dma-1631X

Date received 6/5/51

Participation

EXCALIBUR URANIUM CORPORATION
VORBECK BUILDING
GRAND JUNCTION, COLORADO

Name and address of applicant

Date May 15, 1951

FILL IN THIS BLOCK

Date of application May 15, 1951

Estimated cost $62,500

Mineral or metal Uranium and Vanadium

Percentage of Government participation 90%

Location of mine Bow Knot area of the Green River in Utah.

Date of filing MF-100 None

DMA Docket Number, if available None

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four signed copies of the application to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive officer thereof, with your name and address on each sheet of the application and all accompanying papers. If any question is inapplicable, or if you cannot answer it, so state on the form. Where the space provided for answer is insufficient, answer on a separate sheet, annex it to the application form, and refer to it in space for answer. If the application is approved, you will be presented with an exploration project contract on Form MF-200, for your signature.

See Attached Sheets For All Answers

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation?
*2. If a partnership, state names and addresses of partners.
*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders.
*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project.
*5. Are you the owner or the lessee of the property?
6. If owner, state what claims, liens, or encumbrances, if any, are against the property.
7. If lessee, attach a copy of the lease and state if it is in good standing.

NOTE.—It will be necessary to procure and attach to the exploration project contract agreements of claimants, lienors, encumbrances and lessors subordinating their interests in the property to the interest of the Government under the contract.

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement.
9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)?

*If you have already answered these questions on MF-100, you are not required to answer the questions for this application.

16—64067-1

See Attached Sheets

THE PROPERTY

10. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property.
    (*b*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.

    NOTE.—If both areas are the same, so state. The only obligation to repay the Government is from the net earnings from any commercial discovery made in the area specified in (*b*) above in which the exploration is to be conducted, and the expenditure of funds which may be charged as costs of the project must be limited to that area or to work necessary to perform the exploration in that area.

*11. State the present and former names of the property, if any.

*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.

*13. State source and quantity of water available for operations and its sufficiency at all seasons.
State amount of power to be used, rate per hour or other cost, and source.

*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.

15. State in detail how the ore could be shipped and how and where milled.

*16. History:
    (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.
    (*b*) State briefly the known history and production of adjoining and neighboring properties.
    (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

*17. Production:
    (*a*) If mine is in production, furnish the following information:

	Tons per day	*Grade or analysis*	*Cost per ton*	*Net value per ton*
(1) Mining				
(2) Milling				
(3) Shipped or sold				

*18. Ore or mineral reserves: (If property is or has been operating.)
    (*a*) Describe the ore or mineral deposits briefly.
    (*b*) Submit available maps and assay data.
    (*c*) Give estimated tonnage and grade of each class of ore reserves.

19. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

See Attached Sheets

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted?

21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it.

    NOTE.—The Government will not participate in a project that will require more than 2 years to complete.

22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data.

See Attached Sheets

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:
    (*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each.
    (*b*) Supervisors, by numbers and positions, with salaries of each.
    (*c*) Cost of necessary repairs to existing facilities, structures, and buildings.
    (*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.
    (*e*) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each.
    (*f*) Cost of rental for equipment which the operator proposes to rent.
    (*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work.
    (*h*) Cost of materials and supplies, including items of equipment costing less than $50 each.
    (*i*) Cost of power, water, utilities, and any other items not provided for above.

24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent.

CERTIFICATION

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this form and accompanying papers is correct and complete to the best of their knowledge and belief.

Excalibur Uranium Corporation
(Name of company)

By Harry D. Condor
(Signature of authorized official)

May 31, 1951
(Date)

President
(Title)

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.

*Same as footnote on page 1.

16—64067-1 U. S. GOVERNMENT PRINTING OFFICE

ANSWERS TO QUESTIONS ON FORM MF-103 BY EXCALIBUR URANIUM CORPORATION

"The Applicant"

1. A corporation

2. Inapplicable

3. Harry B. Combs, 127 Vine Street Denver, Colorado,- President and Director
Vance Thornburg, Paonia, Colorado - Executive Vice-President and Director
Thomas E. Moore, Grand Junction, Colorado, Secretary and Director
John C. Mitchell, 2601 South Sheridan Boulevard, Denver, Colo. Treasurerand Director
Peter H. Dominick, 3600 So. Gilpin Street, Englewood, Colo. Director.

Five Largest Stockholders

Harry B. Combs (see above)
Vance Thornburg (" ")
Thomas E. Moore (" ")
Peter H. Dominick(" ")
Arthur E. Palmer Jr., 40 Wall Street New York, N. Y.

4. Harry B. Combs is 37 years old and President of Mountain States Aviation, Inc., a distributor of Beech and Piper Aircraft, and has been engaged in such business for over 12 years.

Vance Thornburg is 30 years old, owner and operator of a fruit packing plant in Paonia, Colorado, owner and manager of two Chevrolet dealerships and sole proprietor of Thornburg Construction Company which amonst other items constructed for the government the Overland Dam and Overland Ditch on the Grand Mesa north of Paonia, Colorado. For the past five months he has been engaged in road and other construction work in the Yellow - Cat Mining District near Cisco, Utah, and owns with other individuals approximately 19 mining claims in that area.

Thomas E. Moore is 43 years old and head of his own architectural firm in Grand Junction, Colorado.

John C. Mitchell is 36 years old and an officer of the Denver National Bank, Denver, Colorado.

Peter H. Dominick is 36 years old and a partner in the law firm of Holland and Hart, Equitable Building, Denver, Colorado.

Garth Thornburg, Mining Manager and Wesley Edwards Mining Superintendent, have both been engaged in the Construction business for a number of years, both own part interests in uranium claims in the Yellow-Cat Mining District and Wesley Edwards is a qualified coal mining superintendent. They will be in active charge of the Company's field operations.

The applicant, Excalibur Uranium Corporation, is a Colorado corporation, formed on May 7, 1951 and qualified to do business in the State of Utah.

5. Owner

6. There are no claims, liens or encumbrances against the properties except an agreement with Leland Tidwell, the Company's chief prospector, of Green River, Utah, that he will receive 5% of the receipts from operations from claims discovered while he is acting as Head Prospector for the Company.

A copy of this Agreement is hereto attached as Exhibit A.

7. See Exhibit A

8. See Exhibit B hereto attached

9. $10,000 yes

THE PROPERTY

10. (a) The property to be explored is in the Bowknot area of the Green River Canyon, approximately 27 air miles south of Green River Utah, and 25 miles west of Moab, Utah. It is located in both Emery and Grand Counties, Utah. There is no existing mine or operating property thereon.

(b) The legal description of the area is as follows:

The property is located in what appears to be unsurveyed townships 25 and 26 South, Ranges 16, 17 and 18 East of the Salt Lake Meridian and encompasses 22 miles of canyon in the Bowknot of the Green River, Grand- and Emery Counties Utah.

This is the same property as is described in the answers to question 10a hereof.

11. The property is widely and commonly known as the Bow Knot area of the Green River, Utah.

12. The property is located 27 air miles south of the town of Green River, Utah, and 25 miles west of Moab, Utah. A first class all weather road runs south from Moab to the government mill at Monticello, Utah. A grazing surface road runs west from Moab toward Dead Horse Point and a branch thereof runs to within one mile east of the Bow-Knot area. A road must be constructed from this point to the canyon edge and then down into the Green River, Canyon. There is another collecting mill owned by U. S. Vandium at Thompson, Utah and a main line railroad running through the town of Green River, Utah.

13. The Green River, which is very large and deep, runs all year round directly through the area to be explored. Initially power will come from motor generators taken to the area by boat from the town of Green River.

14. No structures or other equipment are available except the boats and other exploration equipment for the prospecting crews now on the site, and large quantities of oak trees which could be used for rafts, timbering, scaling ladders and exploration shaft supports.

15. The ore would be mined, chuted to the river bed, placed on trucks and trucked to the government mill at Monticello, approximately 100 miles away, or to the U. S. Vanadium Corporation Collecting mill at Thompson, Utah. Before this can be done a road must be constructed down the Green River Canyon and the Company can rent from the Thornburg Construction Company or otherwise the equipment for this purpose.

16. (a) The Company was formed on May 7, 1951. Immediately thereafter preliminary investigations were made of the Muddy River area in Utah, the Navaho country near Blanding, Utah, and the Yellow-Cat area where certain members of the Company already owned a few claims. Because of the experience of the Company's head prospector, Leland Tidwell and reports from other sources, all crews were concentrated on the Green River, boats and equipment rented or purchased and exploration started. Exploration to date by prospectors with geiger counters and by air with a scintillometer indicates substantial quantities of uranium are present in the area.

(b) The Bow-Knot area has the same Shinerump formation as found in the Muddy River area, such as Temple Mountain Company; and Simplot and Anaconda Copper Company are now exploring and staking certain of the lower readhes of the Green River, near its Junction with the Colorado. Simplot has produced a small amount of ore form this area.

(c) Over 100 claims have been staked and notices of location filed by the Company's crews in the Bow-Knot area and further exploration, staking and investigation is being made. Preliminary reports indicate that a number of these contain uranium deposits which on a calibrated geiger counter indicate from .02% to 9.7% uranium at the outcroppings. Assays of outcroppings taken therefrom were made at Brown Laboratory, Inc., Grand Junction, Colorado and at Root and Simpson, 1310 East 17th Avenue, Denver, Colorado, and the foregoing results given , Leo Coady of Grand Junction, Colorado and a mineralogist from the Atomic Energy Commission have at the Company's request investigated the area and reported that there are good uranium bearring deposits present in quanity. Better grade ore is customarily found further back in the ore deposits.

17. No mining has been commenced.

18. The property has not been operated. For preliminary reports see answer to question 16 (c).

19. The Bow-Knot area comprises 22 miles of Canyon wall where the River makes a hair pin curve. There is a possibility at a later date of boring through the 300 yard divide between the two closest points of the River and using the bore for water power for a mill. Ther Canyon bed has long reaches where a road could be readily built and form and access road for other mines on the Green River. Part of the area is now restricted by Federal Power Site Classification No 323 but a petition for restoration of these lands endorsed by the Atomic Energy Commission Regional Office at Grand Junction, Colorado, is being filed.

THE EXPLORATION

20. Uranium and vanadium.

21. In order to explore adequately the Bow-Knot Canyon, at least 8 miners, prospectors, a surveyor, three boats, a barge, a caterpillar tractor, a compressor, chutes and camping equipment must be furnished. The project will take approximately 3 months.

22. Temple Mountain, the Pay Day claims and claims of the Utah Mining Company are located intthe Shinerump formation below the Wingate formation on the Muddy River, Utah. This same Shinerup formation continues along the Green River Canyon and ore outcroppings have already been located by this Company as shown in our answer to question 16 hereof. The hair pin bend in the Green River at the"Bow-Knot" has the same formation and same geiger counter indications on both sides of the bend and it is probable that the deposit goes all the way through. Simplot has already produced a small amount of fairly high grade ore, from the same formation on the Green River.

REQUIREMENTS AND COSTS

23. Estimated:

		Total
(a)	20 miners 25 day a month basis $15 per day $8000 per month	$24,000
(b)	2 supervisors, 1 $500 per month 1 $600 per month	$ 3,300
(c)	none	
(d)	Road Construction $15,000	15,000
(e)	2 Compresors $5300, jack hammer $350, wagon drill $350 winch truck $3500, D-4 tractor $7500	17,000
(f)	Air craft and trucking rental, $2500	2,500
(g)	none	
(h)	Camping equipment and groceries, $1000	1,000
(i)	none	
		$62,500

24. The completion of the exploration and staking of claims in this area should take at least three months. In that time the Corporation expects to have its claims staked and filed, to have further mineralogist reports, to have constructed a large barge and floated to the site a caterpillar tractor for initial shaft work to discover the width and depth of the ore deposit, have constructed chutes, walkways and trails along the canyon for exploration of the higher bearing strata not otherwise accessible, and to have completed a survey of the location. The total cost is expected to be approximately $62,500.

EXCALIBUR URANIUM CORPORATION

By Lewis B. Lombe
President

EXIHIBIT A*

A G R E E M E N T

This Agreement made and entered into this day of May 1951 by and between Leland Tidwell, (hereinafter called "Tidwell") and Excalibur Uranium Corporation, a Colorado corporation, (hereinafter called "Excalibur").

W I T N E S S E T H

WHEREAS Tidwell represents that he has been engaged for many years in mining and farming in the neighborhood of Green River, Utah, is well acquainted with the same and with the geological formation in the Green River Canyon between the town of Green River, Utah and the junction of the Green and Colorado rivers, and desires to prospect for and with Excalibur in said area; and

WHEREAS Excalibur is a Colorado corporation qualified to do business in the State of Utah, is engaged in prospecting for uranium, vanadium and other minerals, and desires to explore the Green River area for such purposes;

NOW, THEREFORE, in consideration of the foregoing, and the payments and mutual covenants hereinafter made and provided for, the parties hereto agree as follows:

1. Tidwell agrees during the term hereof:

A. To devote his full time and efforts to the business of Excalibur by prospecting on its behalf for uranium, vanadium and other minerals on the Green River between Green River, Utah and the junction of the Green and Colorado rivers, and in connection therwith properly to stake and locate claims in the name of Excalibur, subject at all times to the management and direction of its officers and authorized agents.

B. To act as Excalibur's resident agent for the purpose of service of process on Excalibur in the State of Utah, and to permit Excalibur to use his residence in Green River as its Utah office.

2. In consideration therof Excalibur agrees:

A. To pay or cause to be paid during the term hereof all of Tidwell's reasonable expenses for prospecting expeditions on its behalf in said area;

B. To pay or cause to be paid during the term hereof the expenses and salary of an employee to operate and manage Tidwell's farm in Green River, Utah while Tidwell shall be engaged in such prospecting;

C. To pay to Tidwell five per cent (5%) of the gross receipts received by Excalibur for ore produced from claims properly located and staked in said area on behalf of the Company by Tidwell while acting as Excalibur's head prospector. It is understood and agreed that the term gross receipts shall not include any payments which may be received by the Company from time to time from the government by way of Exploration Aid, Development Bonuses and Payments and Trucking fees, and if it shall develop that any claims so located and staked have prior claimants or other interests to or for which the Company must make payments that the amount of such payments shall first be deducted before computing such gross receipts.

3. Tidwell agrees that his right to receive his percentage share as hereinabove set forth in Paragraph 2 C shall be subordinated to the prior right of the United States Government to be paid for Exploration Aid in such

project by a share of Excalibur's receipts from ore mined from said claims as provided in Mineral Order 5, Defense Production Act of 1950.

4. This Agreement shall not obligate Excalibur to mine any claim staked and located in said area on its behalf by Tidwell in accordance with the terms hereof, nor to make or continue to make any percentage payments to Tidwell if in its sole discretion the same shall appear to be unprofitable or economically unsound or that the development costs thereof shall be too great, nor to continue production after having commenced the same if in its sole discretion a change or impending change in economic or market conditions may render the same uneconomical.

5. In so far as this Agreement shall apply to the employment of Tidwell as the Company's head prospector, it shall expire one month from the date hereof unless renewed by Excalibur. Any renewal shall be on a month to month basis.

6. Excalibur shall within ten days from the close of each monthly period during which Tidwell shall act as Head Prospector submit to Tidwell in writing a list of all mining claims properly located and staked in its name in said area under the supervision of Tidwell during the preceding monthly period, Tidwell's right to a share in production receipts, as hereinabove set forth, shall be limited to those claims so specified.

Payments to Tidwell for his share of production receipts shall be made (1) to his order at Green River, Utah, or at such other place as he may from time to time designate by written notice to Excalibur in Grand Junction, Colo. and (2) within 15 days after the close of the month in which Excalibur shall receive payments for ore mined and sold from any such claims.

7. Excalibur shall keep proper and accurate accounts on a monthly basis or ore mined and sold from any such claims and shall furnish a copy thereof to Tidwell within 30 days of the end of each quarter of each year during which the same shall be in production. Such accounts shall be open to Tidwell's inspection at Grand Junction, Colorado at any reasonable business hour and shall be final and binding upon both parties hereto unless contested in writing within 15 days of receipt thereof.

8. This agreement shall be final and binding on the respective heirs, executors, administrators, successors and assigns hereto.

IN WITNESS WHEREOF, Leland Tidwell has hereunto set his hand and seal, and Excalibur Uranium Corporation has caused this instrument to be executed by its duly authorized officers as of the day and year first above written.

_____ (L.S.)
Leland Tidwell

EXCALIBUR URANIUM CORPORATION
By _____
Executive Vice President

EXCALIBUR URANIUM CORPORATION

EXHIBIT B
CURRENT FINANCIAL STATEMENT
as of May 31, 1951.

ASSETS

CURRENT	
Cash on hand or in Banks	$4287.45
FIXED	
Property	
*Claims (staked & filed)	8633.18
Boats & Motors	600.00
Scintillometer	885.77
Geiger Counters	425.00
Intangibles	
Organization, services, goodwill and promotion	120,000.00
TOTAL ASSETS	$134,831.40

LIABILITIES

CURRENT	
Accounts Payable	$2831.40
CAPITAL (Authorized $500,000)	
**Issued	
12,000 shs Class A @ $1.00	12,000.00
120,000 shs Class B @ $1.00	120,000.00
Subscribed but unissued	
3,000 shs Class A @ $1.00	-----
30,000 shs Class B @ $1.00	-----
*** Authorized but unissued	
335,000 Class B	-----
TOTAL LIABILITIES & CAPITAL	$134,831.40

* Claims are entered on this statement at cost. Estimated value is considerably in excess of this figure.
** Proceeds derived from sale of Class A stock used for prospecting & staking claims and organization expense only.
*** Proceeds derived from sale of 335,000 shares of Class B stock authorized but as yet unissued will be used for production operations.

DEPARTMENT OF THE AIR FORCE
Defense Materials Administration
RECEIVED 5/31/51
JUN 5 - 1951
LANDON F. SMOCKEL
Executive Secretary

DOCKET COPY

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

PROJECT SUMMARY REPORT

F. M. Murphy January 8, 1954

1. DMEA Docket No.-1631 (~~Mercury~~ Uranium)
   Contract No. Idm-E236
   Excalibur Uranium Corporation
   Bow Knot Bend Area
   Emery County, Utah
   Property rights: Owners of 18 unpatented mining claims.

2. Contract - January 24, 1952.
   Total $59,293.00 90% Govt. share $53,363.70

Fixtures & improvements	19,000.00
Operating equipment (rental)	2,172.00
Operating equipment Purchase	2,613.00
Labor & Supervision	19,110.00
Miscl. cost items	16,398.00

   Contract work-road to project approx. 3 miles

   5000 feet rim stripping by bulldozer
   900 feet adits, etc.,

   Amendment No. 1, March 11, 1952, changed some items of work and rate of pay.

   Amendment No. 2, July 1, 1952, changed completion time from 6 to 9 months.

   Amendment No. 3, Nov. 17, 1952, a)completion time changed to 15 months. b) registered new claim numbers. c) changed drifting to rim stripping.

   Amendment No. 4, April 1, 1953, adds 1300 feet diamond drilling in lieu of drifting, and assaying costs.

   N O T E: Above amendments did not increase total estimated cost of contract.

   Work completed:
   3 miles road @ $4,946.11/mile
   287 feet drifting @ $36.63/foot
   862½ hours rim stripping @ 23.27/hour
   1220 feet diamond drilling @ $5.74/ft.(Company)
   $4.16/ft.(audit)

3. Audit Certificate: November 12, 1953.

Total accepted cost - $54,625.18
90% Govt. share - $49,162.66

4. Certified August 19, 1953.

Ore Reserves:

1162 tons 0.48% U_3O_8 - 0.30% V_2O_5
670 tons 0.19% U_3O_8 - 0.30% V_2O_5

Shipments to June 24, 1953.
58.8 tons (Weighted Ava.) 0.534% U_3O_8 - 0.15% V_2O_5

No mention by Field Executive Officer concerning royalty payments to date of this summary.

5. Comments: The project was conducted in a satisfactory manner. The ore reserve estimate submitted by theField Team is conservative.

On the Aileen No. 1 claim surface stripping indicated a consistent channel of low grade mineralization only one sample showing commercial ore.

Diamond drilling results indicate a large low grade deposit on Willow No. 1 claim, that could possible be concentrated.

Production to date has been from Danise No. 1 and Aileen No. 8 adits.

Work in the subject area has shown a small tonnage of presently commerical ore, but a large tonnage may be mined later when milling of this type of ore might be feasible.

F. M. Murphy

F. M. Murphy

☒ Audited

☒ Certified

[illegible]K ANALYSIS SHEET -- DMEA PROJE[illegible]

Analysis as of 12/3/54
Incl. Voucher for April 1953

☒ Actual Cost

☐ Agreed Unit Costs

Name Excalibur Uranium Corp

DMA Docket No. 1631 X

State Utah

Commodity Uranium

Idn-E No. 236

OPERATION	AUTHORIZED Units	AUTHORIZED Cost	COMPLETED Units	COMPLETED Cost	NET COST
Drifting & Crosscutting	900	10122.04	287	11,130.05	11,130.05
Raising					
Shafts					
Winzes					
Drilling Diamond-core (Specify)	1200	9765.70	1220	9412.60	9412.60
Surface Excavation - Rim stripping		24405.26		21,243.29	21,243.29
Underground Excavation					
Roads and Trails		15000.00		14839.24	14839.24
Operating Equipment Purchased					
Surface Rehabilitation & Repairs					
Underground Rehabilitation					
New Building, Improvements, etc.					
Other (Specify)		7993.00			
Totals		59293.00		54,625.18	54,625.18

Distributed above to drifting, drilling & rim stripping:

Transportation (river) -	$2300.00
Operating materials	1493.00
Transportation Phoe -	2500.00
Consulting engineer	1200.00
assaying	300.00
	$7993.00

Prepared by [illegible]

MME Form 7
(10-58)

OFFICIAL FILE COPY

Date	Surname	Code
11/6	Talbert	800
11/6	Mangelsen	500
11/6	Griswold	500
"	Gilbert	130
"	Johnson	110
11/6	Kennedy	100
		220

NOV 7 1961

Memorandum

To: Acting Field Officer, Region III

From: ACTING Acting Chief, Division of Field Operations

Subject: DMEA-1631 (Uranium)
Excalibur Uranium Corporation
Bow Knot Area
Emery County, Utah
Contract Idm-E236

Your November 3 memorandum, under the subject of Expiration of DMEA Contracts Paying Royalty, inquires as to the status of the subject contract.

Our files show that:

(a) The Operator by letter addressed to Mr. Traver on April 14, 1959, gave notice of intent to abandon the unpatented claims covered by the contract;
(b) By letter dated December 28, 1959, addressed to Mr. Townsend, Western Development Company of Delaware advised that the claims had been dropped and, further, that the Operator had dissolved as a corporation;
(c) A February 5, 1960, memorandum from the Chairman, OME Operating Committee, requested Mr. Townsend to confirm that the Operator had been legally dissolved and, if so, to handle in the same manner as the Amerimex case (DMEA-2202, Idm-E468); and
(d) A February 9, 1960, memorandum from Mr. Townsend stated that the Secretary of State of Colorado had confirmed the legal dissolution on June 29, 1959, of the Excalibur Uranium Corporation.

There remains no legal entity to which the Government may look for the payment of royalty. Furthermore, no legally enforceable lien exists either on the unpatented claims or against anyone who may restake them. Accordingly, although still listed as a certified project, this contract is considered closed for reporting purposes.

EDTalbert/ama
November 6, 1961

W. R. Griswold (gfa)

Copy to: Docket
Director's Reading File
CA & A Division
Review Committee

43683

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
Building 20 - Federal Center
Denver 25, Colorado

OFFICIAL FILE COPY
O. M. E.
RECEIVED NOV 6 1961

DATE	INITIALS	CODE
11/6	[illegible]	800
		500
		500

November 3, 1961

Memorandum

To: George C. Selfridge, Chief
Division of Field Operations, OME
Washington 25, D.C.

From: Acting Field Officer, OME, Region III

Subject: Expiration of DMEA Contracts Paying Royalty

This has reference to your memorandum dated October 31, 1961 regarding the expiration of DMEA contracts paying royalty during the first half of 1962.

I note that Contract E236 Docket 1631X, Excalibur Uranium Corporation, was not included. Will you please advise the status of that Contract.

Hugh M. Connors

Hugh M. Connors

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
Building 20 - Federal Center
Denver 25, Colorado
February 9, 1960

OFFICIAL FILE COPY
O. M. E.
RECEIVED FEB 12 1960

DATE	INITIALS	CODE
2-12	gad	220
2/12	[illegible]	800
	~~Murphy~~	~~500~~
		225

Memorandum

TO: Chairman, Operating Committee, OME

From: Executive Officer, OME Field Team, Region III

Subject: Docket No. DMEA 1631 (Uranium) Contract No. Idm-E236
Excalibur Uranium Corporation (Bow Knot area) Emery County, Utah

This responds to your memorandum of February 5, 1960 on the subject contract.

The Secretary of State of the state of Colorado advises that the Excalibur Uranium Corporation was legally dissolved on June 29, 1959.

J. W. Townsend

MME Form 7
(10-58)

OFFICIAL FILE COPY

Date	Surname	Code
2/5	Murphy	500
		500
2/5	Talbot	800
2/5	GCL	130
2/5	Kirkemo	130
"	Johnson	1102
2/4	RCW	220
		225

FEB 5 1960

Memorandum

To: Executive Officer, OME Field Team, Region III

From: Chairman, Operating Committee, OME

Subject: Docket No. DMRA-1631 (Uranium)
Excalibur Uranium Corporation
Bow Knot Area
Emery County, Utah
Contract No. Idm-E236

This is with reference to your memorandum of January 29, 1960, relating to the subject contract.

The Field Team should request confirmation from the State of Colorado Corporation Commission that the Excalibur Uranium Corporation has been legally dissolved as stated in the letter from Western Development Company.

If such is the case, the subject docket will be handled in the same manner as the Amerimex case. Please advise this office of your findings.

/s/ George C. Selfridge (GCS)

APPROVED:

P. F. Yopes (GCS)
Member, Bureau of Mines

Harold Kirkemo (GCS)
Member, Geological Survey

FMMurphy/gla 2-5-60
cc to: Director's Reading File
Operating Committee
Harold Kirkemo, USGS
Docket
Chron
Code 500

Note: Contract form does not contain "abandonment" clause; however, Operator is owner of unpatented claims under contract and, therefore, still has possessory rights against all but only if Operator is dissolved.
Talbot
2/9/60

43683

OFFICIAL FILE COPY
O. M. E.
RECEIVED FEB 2 1960

DATE	INITIALS	CODE
2-2	gad	220
2/2	[illegible]	800
2/3	Murphy	500
		225

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
Building 20 - Federal Center
Denver 25, Colorado
January 29, 1960

Memorandum

TO: Chairman, Operating Committee, OME

From: Executive Officer, OME Field Team, Region III

Subject: Docket No. DMEA 1631X (Uranium) Contract No. Idm-E236 Excalibur Uranium Corporation (Bow Knot area) Emery County, Utah

Will you please advise what disposition we should make of the subject contract since the property has been abandoned as stated in the letter from the Western Development Company of Delaware dated December 28, 1959, copies of which were forwarded you.

In a somewhat similar case, Docket No. DMEA 2202 (Mercury) Amerimex Mining Company (Fresno mine) Presidio County, Texas, Contract No. Idm-E468, your advice was that interim reports would not be required, but we would continue to carry it as a certified project.

J. W. Townsend

J. W. Townsend

Building 20 - Federal Center
Denver 25, Colorado
December 22, 1959

Mr. W. E. Scorah, President
Excalibur Uranium Corporation
Santa Fe, New Mexico

Re: Docket No. DMEA 1631X (Uranium)
Contract Em-E236
Excalibur Uranium Corporation
(Bow Knot area)
Emery County, Utah

Dear Mr. Scorah:

Your letter of April 14, 1959 indicated that you proposed to write off any investment you had in the captioned claims.

Will you please advise the present status of these mining claims.

Very truly yours,

Original signed by

J. W. Townsend
Executive Officer, OME
Field Team, Region III

HMC:ltm

cc: Chmn. Op. Comm. (2)
Reg. Corres. E236
Chron.

certified 8-09-53
Fagan

OFFICIAL FILE COPY
O. M. E.
RECEIVED DEC 28 1959

DATE	IN TAKE	OUT
12/28	C	
"	C.G.	220
1/4/60	Murphy	800
		500
		225

Western Development Company of Delaware

SENA PLAZA, SANTA FE, NEW MEXICO
TELEPHONE YUca 2-5560

OME
DEPARTMENT OF THE INTERIOR
DEC 31 1959
REGION III
DENVER, COLORADO

OFFICIAL FILE COPY
O. M. E.
RECEIVED JAN 4 1960

DATE	INITIALS	CODE
1-4	gad	VVO
	LEG	800
1/5	Murphy	500
		225

December 22, 1959

Mr. J. W. Townsend
Executive Officer, OME
Field Team, Region III
Building 20 - Federal Center
Denver 25, Colorado

Re: Docket No. DMEA 1631X (Uranium)
Contract Um-E236
Excalibur Uranium Corporation
(Bow Knot area)
Emery County, Utah

Dear Mr. Townsend:

With reference to your letter of December 22, 1959 please be advised that the mining claims previously covered by the above captioned contract were dropped by Excalibur Uranium Corporation, and as far as we know they have not been restaked by anyone.

In this connection, we further wish to notify you that Excalibur Uranium Corporation was dissolved June 29, 1959.

Yours very truly,

WESTERN DEVELOPMENT COMPANY
of Delaware

Zeno E. Henderson

Zeno E. Henderson
Secretary

Last Field Team Report March 9, 1959 states property was inactive July 1/58 to Dec. 31/58

ZEH/mb

Chmn(2)

MME Form 7
(10-58)

OFFICIAL FILE COPY

Date	Surname	Code
4/20	Hofflund	
	App'd. Sol. Off.	
4/21	Knouse	
4/21	Talbert	800
4/21	Hofflund	120
		110
		~~220~~
		225
	(Uranium)	

APR 22 1959

W. E. Scorah, President
Excalibur Uranium Corporation
Sena Plaza
Santa Fe, New Mexico

Re: Docket No. DMEA-1631X
Contract Idm-E236
Excalibur Uranium Corporation
(Bow Knot area)
Emery County, Utah

Dear Mr. Scorah:

Your letter of April 14 to Mr. W. M. Traver, Executive Officer, DMEA Field Team at Denver, notifies us that you have not performed and do not intend to perform the assessment work on the property which is the subject of the exploration contract and that you propose ". . . to cancel our liability for the remaining amount of the DMEA loan".

The exploration contract form does not require you to maintain your interest in the claims which were the subject of the exploration project. However, the contract does not permit you to cancel your liability to the Government, although this may be the ultimate effect of the abandonment of the property. The Government's royalty depends upon production from the property, and if there is no production there will, of course, be no obligation for payment to the Government.

The Government is grateful for your participation in the exploration program, and regrets that it did not turn out to be more profitable for you.

Sincerely yours,

(signed) FRANK E. JOHNSON
Acting Director

JLHofflund/eal - 4/20/59

Copy to: Field Team, Reg. III (2)
OME files
F. L. Knouse
J. L. Hofflund, Room 6554
Director's Reading File
Contract Adm. & Audit Division

43683

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
224 New Customhouse
Denver 2, Colorado

April 15, 1959

INTERIOR DEPT.
APR 17 1959
SOLICITOR

OFFICIAL FILE COPY
RECEIVED APR 17 1959
DATE 4-17 C Kunze 220 700 225

Memorandum

To: Chairman, Operating Committee, OME

From: Executive Officer, OME Field Team, Region III

Subject: Docket DMEA 1631X (Uranium) Contract Idm-E236, Excalibur Uranium Corporation (Bow Knot area) Emery County, Utah

Enclosed are the original and one copy of a letter from W. E. Scorah, President of the Excalibur Uranium Corporation, together with copies of our reply.

Because of the legal aspects involved, we are refering the matter to your office for reply to the operator.

Will you please forward this office a copy of your reply to the operator.

J. W. Townsend

J. W. Townsend

Enclosures

RECEIVED
APR 20 1959
ASSOC. SOLICITOR
MINERAL RESOURCES

Contract [illegible] unit division

224 New Customhouse
Denver 2, Colorado

April 15, 1959

RECEIVED
O. M. E.
APR 17 1959
DATE | INITIALS | CODE

Mr. W. E. Scorah, President
Excalibur Uranium Corporation
Western Development Company of Delaware
Dona Ana
Santa Fe, New Mexico

Re: Docket DMEA 1631X (Wasatch)
Contract Nbr-8295
Excalibur Uranium Corporation
(New Knot area)
Emery County, Utah

Dear Mr. Scorah:

Your letter dated April 14, 1959, regarding the cancellation of your liability for the remaining amount of the DMEA loan has been forwarded to the Washington Office, and you may expect to receive a letter from them in the near future.

Very truly yours,

Original signed by
J. W. TOWNSEND

J. W. Townsend
Executive Officer
OME Field Team, Region III

HMC:jy

cc: Chair. Op. Comm. (2)
Marshman
Hasler
Robertson
Corres. file
Roy. Corres.
Chron.

Western Development Company of Delaware

Excalibur Uranium Corporation

OME
DEPARTMENT OF THE INTERIOR
APR 15 1959
REGION III
DENVER, COLORADO

SENA PLAZA, SANTA FE, NEW MEXICO
TELEPHONE YUca 2-5568

April 14, 1959

Mr. W. M. Traver, Executive Officer
Field Team, DMEA Region 324
New Customs House
Denver 2, Colorado

Re: Docket No. DMEA 1631X (Uranium) Contract Idm-E236, Excalibur Uranium Corporation (Bow Knot area) Emery County, Utah

Dear Mr. Traver:

With reference to the above contract, we wish to advise you that Excalibur Uranium Corporation has not performed the assessment work for the current year on the claims covered by said contract and Excalibur does not propose to undertake such assessment work between now and June 30, 1959.

We trust that this constitutes sufficient notice by Excalibur Uranium Corporation, but if any further notice is required please advise us as we propose to write off any investment we may have in these claims and to cancel our liability for the remaining amount of the DMEA loan.

Very truly yours,

EXCALIBUR URANIUM CORPORATION

W. E. Scorah
President

WES:dh

6

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

RECEIVED
AUG 13 1956

224 New Customhouse
Denver 2, Colorado

August 9, 1956

Arthur Young & Company
1930 Sherman Street
Denver 3, Colorado

Re: Docket DMEA 1631X (Uranium), Contract Idm-E236, The Excalibur Uranium Corporation (Bow Knot Area), Emery County, Utah

Dear Sirs:

Our balance for Contract Idm-E236 as of June 30, 1956 is as follows:

Amount of Government Payments to Operator	$49,162.66
Amount of Royalty Repayment to Government	713.76
Balance	$48,448.90

Yours very truly,

W. M. TRAVER

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

Western Dev. Co. of Delaware
Attn: Zane M. Henderson

MHM/vj
cc: Royalty File E236
Corres. File E236
Sec. Opr. Comm. (2)
J. F. Shaw (2)
Townsend
Marshall
Chron.

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

RECEIVED
AUG 13 1956

224 New Customhouse
Denver 2, Colorado

August 9, 1956

Zane E. Henderson
P. O. Box 1201
Santa Fe, New Mexico

Re: Docket DMEA 1631X(Uranium), Contract Idm-E236, The Excalibur Uranium Corporation (Bow Knot Area), Emery County, Utah

Docket DMEA 3826 (Lead-Zinc), Contract Idm-E883, Western Development Company of Delaware (Bottom Dollar Mine), Santa Fe County, New Mexico

Dear Mr. Henderson:

Enclosed is a copy of our letter dated August 9, 1956 to Arthur Young & Company, wherein the amount due the Government as of June 30, 1956 on Contract Idm-E236 is stated at $48,448.90. This complies with the request made in your letter of June 6, 1956 relative to Contract Idm-E236.

We are unable to comply with the request made in your letter dated June 6, 1956 relative to Contract Idm-E883, as the amount of $4,594.05 stated by your letter to be the balance of Contract as of June 30, 1956 is not in agreement with our records.

Forty-six dollars was disallowed as the result of the Report of Review of Contract Expenditures dated June 15, 1956. The report was made by the Contract Administration and Audit Division, DMEA. Disallowance was made inasmuch as payroll taxes and insurance was claimed on the total salary of A. C. Malting for the months of November and December 1955. Three hundred dollars of the November salary as well as the entire salary for the month of December were exempt. The Government participated in this contract at 50%, which resulted in a $23.00 deduction. The correct net balance of the contract as of June 30, 1956 is therefore $4,571.05.

We have accordingly not written Arthur Young & Company relative to balance which may be due the Government as of June 30, 1956 on Contract Idm-E883 .

MHM/vj

Very truly yours,

W. M. TRAVER

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

cc: Royalty File E883 w/cys Opers.ltrs.
Corresp. File E883 w/Opers. ltrs
Sec. Opr. Comm. (2) w/photo cys Opers. ltrs.
J. F. Shaw (2)
Townsend
Marshall
Chron.

Enclosure

EXCALIBUR URANIUM CORPORATION
P. O. BOX 1201
SANTA FE, NEW MEXICO

RECEIVED
AUG 13 1956

August 6, 1956

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

Dear Mr. Traver:

Re: Docket DMEA 1631-X, Uranium Contract IDM E-236

Arthur Young & Company, 1930 Sherman Street, Denver, Colorado, are making an audit of the books of Excalibur Uranium Corporation and would like to have confirmation of the balance of the above-captioned contract with DMEA. Our records indicate that the balance of this contract as of June 30, 1956 was $48,448.90.

If this agrees with your records, we would appreciate it if you would confirm this amount on the enclosed copy of this letter and mail it direct to Arthur Young & Company in the enclosed envelope.

Yours very truly,

EXCALIBUR URANIUM CORPORATION

Zane E. Henderson
Secretary

ZEH:bn

Encs.

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

NOV 14 1955

Mr. Donald T. Finch
DMEA Auditor
284 New Customhouse Building
Denver 2, Colorado

Re: Excaliber Uranium Corporation
Contract Idm-8296
Docket No. DMA-1631X

Dear Don:

Receipt is acknowledged of the Washington copies of the First Report of Royalty Review covering the above-cited Exploration Project Contract.

The Report of Royalty Review is acceptable and normal distribution may be effected.

Sincerely yours,

(Signed) J. L. Chambers

Jay L. Chambers, Chief
Contract Administration
and Audit Division

WBorovies/wb
November 14, 1955

Copy to: Docket
Admr. Reading File
Mr. Chambers

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

224 New Customhouse
Denver 2, Colorado

September 29, 1955

1631

Mr. Zane E. Henderson, Secretary
Excalibur Uranium Corporation
Sena Plaza
Santa Fe, New Mexico

Dear Mr. Henderson:

Thank you for your letter of September 28, 1955 which explains the reason no royalty payment was made to Defense Minerals Exploration Administration on your June 1952 sale of 128.81 lbs. of uranium to Climax Uranium Corporation.

In checking our royalty records, we failed to note that a shipment corresponding to the above sale was excepted from royalty by Mr. C. O. Mittendorf's letter dated August 19, 1953 to your company.

We are sorry to have caused you an inconvenience.

Yours very truly,

W. M. Traver

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

JDC:jy
cc: Sec. Op. Comm. (2) W/Copies of letter
Finch
Wilson
Royalty File E236
Chron.

Western Development Company of Delaware

DMEA
Data Bank
SEP 29
BUREAU OF MINES
Denver, Colorado

SENA PLAZA
SANTA FE, NEW MEXICO

September 28, 1955

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

Dear Mr. Traver:

Re: DMEA Contract IDM-E236, Docket 1631X

Reference is made to your letter of September 26, 1955, addressed to Mr. William E. Scorah, Western Development Company, Santa Fe, New Mexico.

Your correspondence states that royalties are past due on production subject to the above contract. This has been discussed on previous occasions, and I refer you to a letter from C. O. Mittendorf, Washington, D.C. addressed to Harry B. Combs, President of Excalibur Uranium Corporation, dated August 19, 1953. This letter dealt with certification of the property as a discovery and also mentioned in the second paragraph the specific exemption of the production in question of any royalty payment due.

Should there be any further questions concerning the matter, we would be happy to hear from you.

Yours very truly,

EXCALIBUR URANIUM CORPORATION

Zane E. Henderson

Zane E. Henderson
Secretary

ZEH:bn

Washington

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

RECEIVED
SEP 2 6 1955

224 New Customhouse
Denver 2, Colorado

September 26, 1955

Mr. William E. Scorah, President
Western Development Company
P. O. Box 1201
Santa Fe, New Mexico

Dear Sir:

The Defense Minerals Exploration Administration is making an audit of the production sales and royalties due the United States Government under the terms of Exploration Contract Idm-E236, Docket No. DMA-1631X, with the Excalibur Uranium Corporation.

The records in this office show the first sale of production from the properties subject to DMEA royalties was made on a liquidation settlement sheet No. 191 issued on July 31, 1952, by Vitro Chemical Company.

The Atomic Energy Commission Operations Office at Grand Junction, Colorado maintains a complete production record for each claim west of the Mississippi. This office has advised that the Excalibur Uranium Corporation made a sale in June, 1952, of 128.81 pounds of uranium produced from the properties covered by this contract to the Climax Uranium Corporation.

According to the records in this office, this sale has never been reported to this office and the royalty on the sale has not been paid to the Government.

Mr. John Mitchell of the Denver National Bank advised that all records of the Excalibur Uranium Corporation were turned over to Western Development Company at the time your company obtained control of Excalibur.

It will be appreciated if you will check into this matter and furnish this office with four copies of the settlement sheet for this June, 1952 sale to Climax. In the event you do not have four copies of the settlement sheet available, please furnish us with at least one copy and we will have photo-copies made.

Very truly yours,

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

DTF:bh
cc-Sec. Op. Comm. (2)
Roy. File E-236
Wilson
Berkenkotter
Finch
Chron.

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

RECEIVED
SEP 19 1955

224 New Customhouse
Denver 2, Colorado

September 16, 1955

Memorandum

To: S. R. Wilson

From: Executive Officer, DMEA Field Team, Region III

Subject: Check Sheet of Examining Engineer
Excalibur Uranium Corporation
Contract Idm-E236, Docket No. DMA-1631X

Enclosed are five copies of check sheet for attachment to First Royalty Report of Review on subject company. Please have the Examining Engineer complete, sign and return four copies for the Report of Review.

W. M. Traver

Encs.
DTF:bh
cc-Sec. Op. Comm. (2)
Finch
Roy. File E-236
Chron.

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

224 New Customhouse
Denver 2, Colorado

November 8, 1954

Memorandum

To: Chairman, Operating Committee

From: Executive Officer, DMEA Field Team, Region lV

Subject: Docket No. DMEA 1631 (Uranium), Contract No. Idm-E236
Excalibur Uranium Corporation, Bow Know Area
Emery County, Utah

Reference is made to your letter dated November 4, 1954, regarding the Semiannual Report of Certified Projects for the period January 1, 1954, to June 30, 1954, and collection of royalties due the United States Government from production from this property.

All royalties under Contract Idm-E236 due to date have been collected by this office.

John F. Shaw
For W. H. King

Surname 7.0

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

F L Knouse
Ellis
Selfridge
Mitchendry

NOV 4 - 1954

Mr. A. H. King
Executive Officer
DMEA Field Team, Region IV
224 New Customhouse Building
Denver 2, Colorado

Re: Docket No. DMEA-1631 (Uranium)
Contract No. Idm-1236
Excalibur Uranium Corporation
Bow Knot Area
Emery County, Utah

Dear Mr. King:

This is with reference to your memorandum dated October 11, which transmitted a memorandum from Mr. Stephen R. Wilson, dated August 3, 1954, with an attached "Semiannual Report of Certified Project" January 1, 1954, to June 30, 1954, for the subject project.

You will note from the above dates that considerable time has elapsed from the inspection date until the report was transmitted by you to Washington. In order for us to keep our records current, such reports should be sent to us with a minimum of delay.

In this connection we note in the attached Semiannual Report that royalties were due on bonus, haulage, and development allowances on 109.96 tons of ore shipped by the Operator. If these royalties have not been paid, you should request the Operator to do so.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (JHB)

APPROVED:

J. H. Hedges (JHB)
Member, Bureau of Mines

Thor H. Kiilsgaard (JHB)
Member, Geological Survey

FLKnouse:am
11-2-54
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. Knouse

R.C.G.

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

224 New Customhouse
Denver 2, Colorado

October 18, 1954

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region lV

Subject: Royalty - Excalibur Uranium Corporation
Docket No. 1631X, Contract No. E236, Utah

Enclosed is Excalibur Uranium Corporation's check, No. 1205, in the amount of $33.08 in payment of the following:

Bal. of royalty on Liq. No. 5934	$22.80
A.E.C. Production Bonus on No. 5934	10.28
	$33.08

Settlement sheet was forwarded to you September 23, 1954.

W. H. King

W. H. King

mn

cc: Royalty File E236
Sec. to the Oper. Comm. (2)
Wilson
Chron.

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

224 New Customhouse
Denver 2, Colorado

July 2, 1954

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region IV

Subject: Royalty-Excalibur Uranium Corporation, Docket No. 1631X, Contract No. E236, Utah

Enclosed is check in the amount of $89.06 in payment of balance on royalty on Liquidation No. 5414 ($24.08), and Bonus Royalty ($64.98).

W. H. King

W. H. King

Enclosure

es

cc: Royalty File E236
Sec. to the Oper. Comm. (2)
Wilson
Chron.

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

224 New Customhouse
Denver 2, Colorado

May 4, 1954

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region IV

Subject: Royalty-Excalibur Uranium Corporation, Docket No. 1631X, Contract No. E236

Enclosed is check in the amount of $25.49 from Excalibur Uranium Corporation which represents the following:

Balance on Lot No. 5076	$ 7.75
AEC Production Bonus on Lot No. 5076	17.74
Total Payment	$25.49

W. H. King

W. H. King

Enclosure

es

cc: Royalty
Sec. to the Oper. Comm. (2)
Wilson
Chron.

C
O
P
Y

700

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

224 New Customhouse
Denver 2, Colorado

January 27, 1954

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region IV

Subject: Royalty on Bonus Payments for initial Production of Uranium Ore

Reference is made to your letter of inquiry dated January 20, 1954, concerning the above subject.

All operators of DMEA contracts for uranium have been notified that royalty is due on all AEC bonus payments. To date we have received the following amounts in payment of royalty on AEC Production Bonus:

DMEA-1631 —

E61	Cherokee Mines	626.41
E236	Excalibur Uranium Corp.	130.13
E381	Sunnyside Uranium Corp.	206.29
E399	Salina Mining & Smelting Co.	27.58
	Total	$990.41

In addition we have bonus royalty due on several shipments from various other operators for which we have requested payment.

We have been notified by the Gateway Mining Company, E408, and the Boomerang Mining Company, E445, that their properties are not eligible for AEC bonus payments. We have verified these statements through the AEC office in Grand Junction, Colorado

/s/ W. H. King

W. H. King

STANDARD FORM NO. 64

Office Memorandum • UNITED STATES GOVERNMENT

TO : E. Wm. Ellis, DMEA Member, Uranium Commodity Committee

DATE: January 15, 1954

Defense Minerals Administration
RECEIVED
JAN 19 1954

FROM : Arthur P. Butler, Jr., USGS Member, Uranium Commodity Committee

SUBJECT: Final Field Team Report DM(E)A Docket 1631X (Uranium), contract Idm-E236, Excalibur Uranium Corp., contractors, Aileen, Danise and Willow claim groups, W. side Bow Knot Bend Area, Emery County, Utah

The Final Field Team Report on results of exploration at the property identified above has been reviewed. A discovery has already been certified.

Work under the contract consisted of building access road, about 6,000 feet of stripping, 287 feet of drifting, and 1220 feet of core drilling to explore for uranium ore in Triassic sandstone of the Shinarump conglomerate or Chinle formation immediately above the contact with the Moenkopi formation. The exploratory work found about 1800 tons of ore in two ore bodies on the Danise No. 1 claim and several areas of currently sub-ore grade mineralized rock of undetermined size, distribution, and average grade. One on the Danise claim has about 1200 tons of indicated ore, averaging 0.48 percent U_3O_8 and the other has a little less than 700 tons averaging 0.19 percent.

The Field Team believes that the area is of possible future interest as a source of uraniferous material averaging less than 0.10 percent U_3O_8. The geologist states that detailed sampling would be required to determine tonnage and grade of that material. In view, however, of the small size and generally low grade of uranium bearing areas discovered by the exploration, the ~~geologic~~ members of the team recommend that no further exploration be done with DMEA aid.

No estimate is given of the kind and amount of work that might be required to appraise the potential of the property as a possible source of sub-marginal uraniferous rock.

I concur in the recommendation against further exploratory work under DMEA auspices at this time.

Arthur P. Butler, Jr.

Copies to: E. Wm. Ellis (2)

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

224 New Customhouse
Denver 2, Colorado

Department of the Interior
Defense Minerals Administration
RECEIVED
JAN 4 1954

December 29, 1953

Memorandum

To: Secretary to Operating Committee, DMEA

From: DMEA Field Team, Region IV

Subject: Docket DMA 1631X (Uranium), Contract Idm-E236, Excalibur Uranium Corporation, Bow Knot Area, Emery County, Utah

Enclosed are the following final reports pertaining to work under the subject contract:

1. Original and one copy of the operator's final report.

2. Original and three copies of the final geologic report by the U.S. Geological Survey.

3. Original and three copies of the final engineering report by the Bureau of Mines.

The project work consisted of three miles of road construction, 862.5 hours of bulldozing involved in rim stripping, 1220 feet of core drilling, and 287 feet of drifting, at a total accepted cost of $54,625.18, in which the Government participated to the extent of 90% or the amount of $49,162.66.

The project work resulted in a discovery of uranium ore on which a certification was issued under date of August 19, 1953. Final payment to the operator was processed by this office December 28, 1953, in conformance with the final audit report and certificate by the Contract Administration and Audit Division dated November 12, 1953, which was released to this office November 23, 1953.

Final payment of the account was deferred pending receipt of the operator's final report, which was received in this office December 24, 1953. The Washington office copies of the operator's final accounting report will be forwarded when processed by the Fiscal Office, Region IV.

Enclosures

W H King
W. H. King

A. H. Koschmann
A. H. Koschmann

Reviewed by
DMEA OPERATING COMMITTEE
1-11-54
(date)

F.T. FINAL REPORT

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
1600 EAST FIRST SOUTH STREET
SALT LAKE CITY 1, UTAH

Mining Div
Date R
DEPARTMENT OF THE INT 30 1953
Defense
BUREAU OF MINES
Denver, Colorado

October 28, 1953

Memorandum

To: W. H. King, Executive Officer, DMEA Field Team, Region IV

From: Chief, Minerals Development Branch, Mining Division, Region IV

Subject: Docket No. DMEA 1631 (Uranium), Contract Idm-E236, Excalibur Uranium Corp., Emery County, Utah

Enclosed are 11 copies of a final engineering report covering operations under the subject project.

Work under the contract was begun February 1, 1952, and terminated April 24, 1953. The contract permitted an expenditure of $59,293 to conduct access road construction and bulldozer rim stripping and drifting and crosscutting. An amendment was granted to allow diamond drilling. The project was completed without expenditure of total funds allowed. The actual expenditure, pending final audit, was $54,883.06.

Ores were found as a result of the exploratory work. A certification of discovery was issued August 19, 1953.

Stephen R. Wilson
Stephen R. Wilson

Enclosure

Reviewed by
DMEA OPERATING COMMITTEE
1-11-54
(date)

EXCALIBUR URANIUM CORP.
EMERY COUNTY, UTAH
DMEA-1631
Contract Idm-E236
Uranium

Final Engineering Report

By W. E. Young
Mining engineer
Bureau of Mines

Reviewed by
DMEA OPERATING COMMITTEE

1-11-54
(date)

EXCALIBUR URANIUM CORP.
EMERY COUNTY, UTAH

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ILLUSTRATIONS

Fig. 1 Progress and access road map
Fig. 2 Sample map of Danise No. 1 workings
Fig. 3 Plan map of Aileen No. 8 workings

INTRODUCTION

The Excalibur Uranium Corp. of Grand Junction, Colorado, obtained a $59,293.00 DMEA loan in January 1952 to explore uranium property in the Bow Knot area of the Green River, Emery County, Utah. The property was examined on July 10, 1951, by a field team consisting of an engineer of the Bureau of Mines and a geologist of the Geological Survey, and the project was recommended. The inaccessibility of the area retarded prospecting until an organized expedition was sponsored which systematically examined this section from river camps serviced by boats. Discovery of uranium-bearing outcrops and zones of radiometric activity was made along the Shinarump rim outcrop. This prompted claim staking and the start of an access road over the Wingate rim and down Spring Canyon to the Green River. The corporation constructed the road over the Wingate rim at a cost far in excess of the amount originally anticipated. The contract allowed $15,000 to aid in completing the road to the river. Costs for this work were somewhat in excess of $15,000, but they were borne by the company. The road has since been completed and surfaced by the AEC, and will be an important link in a loop down the Green River to be constructed in the future.

In addition to road work, the corporation asked for assistance in completion of 5,000 feet of rim stripping and 900 feet of drifts and crosscuts.

DESCRIPTION OF WORK

The company accomplished some work in the area before the start of the project. This work consisted of the major portion of access road construction, preparation of air strips, camp construction, and some drifting. It soon became evident that access to the area by road and ferry across the river was imperative because of high costs encountered in accomplishing any work.

Actual project work started on February 1, 1952. Initial work consisted of continuation of the access road. The contract limited expenditures to $15,000 for completion of the road. Additional expenses for road and ferry were borne by the company. Drifting was started on the Danise workings May 15, 1952. A total of 287 feet of drifting was accomplished under contract, of which 187 feet was completed in the Danise workings and 100 feet in the Aileen workings. Because the uranium mineralization encountered is low grade and because the costs of underground work were high, the company shifted interest from drifting to rim stripping in search of other mineralized areas.

Eight hundred sixty-two and one-half hours of bulldozer rim stripping was accomplished. More than 6,000 feet of rim was excavated, but over much of this distance the Shinarump outcrop was so deeply buried by talus that exposure by bulldozing became impractical.

It will be necessary to drill these buried areas to appraise their potentialities. The work done in stripping has made the Shinarump outcrop accessible over most of the distance.

As the project progressed, it became evident that a large amount of work was being done without furnishing much tangible evidence relative to ore tonnage and grade. This was pointed out to company officials and they were pursuaded to change their procedure and attempt something more definite. It was decided to diamond drill a large, low-grade outcrop which had been discovered in the course of the exploratory work. At the time drilling was started, there were insufficient funds remaining to conduct bulldozer work along the top of the Shinarump outcrop for drill station locations to drill vertical down holes through the formations. Therefore, it was decided to use the remaining allocated funds to drill angle holes from stations along the base of the Shinarump. In this manner, existing access roads were utilized for drill stations and all the remaining funds were used for drilling. As a result of this work, a large, low-grade deposit is indicated. A nucleus has been established for building a mill in the area. It appears that the deposits may be capable of yielding large tonnages of low-grade ores.

More than 1,200 feet of diamond drilling was completed under subcontract. The project was terminated April 24, 1953, after completion of the drilling program. Additional exploratory work is warranted in delineating the uranium occurrences.

All work was well done and conforms to the contract or amendments thereto. The operator experienced considerable difficulty in performance of the work because of the isolated location and hindrances from seasonal vicissitudes of the river.

GENERAL GEOLOGY

The Green River, in the Bow Knot area, cuts through beds of Lower Jurassic and Upper Triassic age. Formations exposed in the walls of the canyon are Lower Jurassic Wingate, Upper Triassic Chinle, Upper Triassic Shinarump, and the Lower Triassic Moenkopi. The base of the Moenkopi is not exposed in the area. The Shinarump formation contains ore-bearing lenses near its base which are thought to be associated with scour channels formed on the erosional surface of the Moenkopi. Mineralization occurs both in thick conglomerate lenses and in thin, sandy siltstones and grits.

COSTS

A total cost of $59,293.00 was approved by contract. Original contract limitations on expenditures were $15,000 for 3 miles of road construction; 300 hours of bulldozer rim stripping at $3,300; 900 feet of drifts and crosscuts at $31,500, and minor costs incidental to doing this work. Four amendments were secured which allowed a transfer of funds to increase the allowable cost for rim stripping; a transfer of funds to diamond drilling; a transfer to increase the amount for assaying; and an extension of time to complete the contract. The total

expenditure on the project, pending final audit, was $54,883.06. A total of $15,000 was expended for road construction, $20,068.42 for rim stripping, $10,325.01 for drifting, $7,003.38 for diamond drilling, and $2,486.25 for plane and truck service. The Government's share of the cost of the project is $49,394.75, or 90 percent. The Government's share of the unexpended balance of funds is $3,968.95.

A total of 58.8 tons of ore was shipped during the project period. The net amount received for this ore was $2,981.16. No royalty has been paid on this ore to date. A certificate of discovery, dated August 19, 1953, has been issued.

EQUIPMENT

There was no equipment purchased for the project. It is recommended that the Government waive its rights to materials and supplies remaining. The total value of supplies remaining in any one category does not exceed $50.

ORE RESERVES

A deposit immediately available for mining was disclosed by DMEA exploratory work on the Danise No. 1 claim. The deposit was mapped and sampled for recommendations for a certificate of discovery. Results of this work give an indicated tonnage of 1,832 tons, with a weighted average grade of .37 percent U_3O_8. The average thickness of this ore is 2.6 feet. The deposit was partially developed by rim stripping (fig. 2).

Exploratory work disclosed low-grade uranium mineralization on claims other than the Danise No. 1. These are Danise No. 6, Aileen Nos. 1, 2, 8 and 9, and Willow Nos. 1 and 2.

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

The Excalibur Uranium Corp. of Grand Junction, Colorado, completed their DMEA exploration project in April 1953. The project was successful in exposing promising areas of mineralization. In addition, a large, new area is made accessible and exploratory work under contract is being resumed on neighboring claims. The work consisted of road construction, bulldozer rim stripping, drifting, and diamond drilling. An ore body containing 1,832 tons with a weighted average grade of .37 percent U_3O_8 is indicated by drifting and rim stripping. Shipments from the property consist of 58.8 tons of ore with a net value of $2,981.16. Additional development of this ore body is recommended.

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
Defense Minerals Exploration Administration
Denver Federal Center
Denver 2, Colorado

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 4 1954

December 15, 1953

Memorandum

To: DMEA Field Team, Region IV

From: A. H. Koschmann

Subject: DMEA Docket 1631X, Excalibur Uranium Corporation, Bow Knot Bend claims, Emery County, Utah

Enclosed are 11 copies of a final geologic report by C. G. Tillman of the U. S. Geological Survey covering the above docket.

Although this area may be of interest in the future as a source of unaniferous material averaging less than 0.10 percent U_3O_8, further exploratory work with DMEA aid does not seem advisable at the present time in view of the relatively small tonnage of ore discovered by the completed DMEA exploration program.

A. H. Koschmann

A. H. Koschmann
Supervising Geologist
Colorado-Wyoming

Enclosures (11)

Reviewed by
DMEA OPERATING COMMITTEE
1-11-54
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Room 208 - 222 So. West Temple
Salt Lake City 1, Utah
December 9, 1953

Memorandum

To: A. H. Koschmann, Field Team, Region IV

From: C. G. Tillman, for R. J. Roberts
Utah-Nevada District office

Subject: DMEA Docket 1631-X, Excalibur Uranium Corporation, Bow Knot Bend claims, Emery County, Utah.

Enclosed are eleven copies of a final geologic report on the Bow Knot Bend claims of the Excalibur Uranium Corporation, DMEA Docket 1631-X by C. G. Tillman, geologist, U. S. Geological Survey.

The Excalibur Uranium Corporation was granted a DMEA loan to aid in exploration for uranium ore on the Bow Knot Bend claims, Emery County, Utah.

Uranium minerals in this district occur disseminated in Upper Triassic conglomerate, shale, sandstone, and clay and in carbonaceous matter included in these beds.

With DMEA aid a total of more than 6,000 feet of bulldozer stripping, 287 feet of adits and crosscuts and 1,220 feet of diamond drilling were completed on the Bow Know Bend claim.

The DMEA exploration program delineated two small ore bodies on the Danise No. 1 claim; 1,162 tons of indicated ore averaging 0.48 percent U_3O_8 was outlined in the Danise adits and 670 tons of inferred material averaging 0.19 percent U_3O_8 was partially exposed by bulldozer stripping on the Danise No. 1 claim.

In view of the small tonnage of ore discovered by DMEA work no further exploration with government aid is recommended on the claims at this time. This area may be of interest in the future as a source of uraniferous material averaging less than 0.10 percent U_3O_8.

Reviewed by
DMEA OPERATING COMMITTEE
1-11-54
(date)

DEC 1953
RECEIVED
U.S. Geological Survey
Water Resources Branch

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION IV

Final Geologic Report

DMEA Docket 1631-X, Excalibur Uranium Corporation

Bow Knot Bend Claims

Emery County, Utah

(Uranium)

By

C. G. Tillman
U. S. Geological Survey

December 10, 1953

Reviewed by
DMEA OPERATING COMMITTEE
1-11-54
(date)

DMEA Docket 1631-X, Excalibur Uranium Corporation

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Fig. 0 - Index Map of Utah
1 - Geologic Map of the Bow Knot Bend Area, Emery and Grand Counties, Utah.
2 - Bow Knot Bend Claims, Excalibur Uranium Company Emery County, Utah.
3 - Assay Map, Danise No. 1 Claim, Bow Knot Bend Group Emery County, Utah
4 - Section A-A'
Through diamond drill site No. 1 showing inclination and length of holes. Holes drilled from sites 2, 3, and 4 of similar atitude and length.
5 - Map of Aileen #8 workings, Bow Knot Bend Group Emery County, Utah.

DMEA DOCKET 1631-X, EXCALIBUR URANIUM CORPORATION

BOW KNOT BEND CLAIMS

EMERY COUNTY, UTAH

Introduction

The Excalibur Uranium Corporation applied for a loan, DMEA docket 1631X, to aid in exploration for uranium ore on claims at Bow Knot Bend on the Green River, Emery County, Utah (fig. 1). H. K. Thurber, mining engineer, U. S. Bureau of Mines and R. W. Osterstock, geologist, U. S. Geological Survey visited the property July 10 to 12, 1951. A contract dated January 24, 1952 was signed for work totalling $59,293.00 of which a total of $54,883.06 was expended. The exploration program began February 1, 1952 and was terminated April 24, 1953 by the operator.

Acknowledgment

Reports on this property by the U. S. Bureau of Mines and the U. S. Geological Survey have been used freely in the preparation of this report.

Location and accessibility

The Bow Knot Bend area of the Green River lies in Emery and Grand Counties in unsurveyed secs. 24, 25, and 36, T. 25 S., R. 17 E., SLB&M (fig. 0). The area may be reached by driving 11 miles north from Moab, Utah on U. S. Highway 160 to the new Dead Horse Point road, then travel west up Seven Mile Canyon on a gravelled road 36.4 miles to the mouth of Spring Canyon. A ferry crosses to the Bow Knot Bend claims on the opposite side of the Green River.

History and accessibility

Uranium-bearing outcrops were discovered in the Bow Knot Bend area early in May, 1951. Claims were staked on both sides of the river and in tributary Spring and Hellroaring Canyons on the basis of radiometric observations of outcrops. Exploratory work began on the Danise No. 1 claim in June, 1951.

A total of 4.8 tons of ore of unknown grade was shipped just prior to the beginning of the contract work. During the program 54 tons of ore was shipped which averaged 0.46 percent U_3O_8 and 0.12 percent V_2O_5.

The property is now leased to the Climax Uranium Company of Grand Junction, Colorado.

GEOLOGY

Sedimentary rocks of Triassic and Jurassic age are exposed in the Bow Knot Bend area of the Green River (fig. 1).

The Lower Triassic Moenkopi formation forms the lower slope of the canyon at this place. The Moenkopi consists of red, brown, and locally gray thin-bedded intergrading mudstones, shales, and muddy sandstones interbedded with more resistant partly calcareous sandstones and muddy sandstones that form ledges on the outcrop. Maximum thickness in the area between the Green and Colorado Rivers is about 525 feet but only the top few feet are exposed near Bow Knot Bend.

Unconformably overlying the Moenkopi and often cutting channels in it is commonly found the Upper(?) Triassic Shinarump conglomerate or, in its absence, the Upper Triassic Chinle formation. The Shinarump, which consists of up to 50 feet of crossbedded or horizontally bedded white to gray sandstone containing lenses of tan conglomerate and gray to green mudstone, was not mapped in the Bow Knot Bend area by McKnight (1940, pl.I) or Baker (1946, pl. I) because of its lack of continuity with known Shinarump and the scarcity of siliceous pebbles such as characterize the Shinarump at its type locality.

Consequently, the Chinle formation, consisting of approximately 375 feet of red, gray and green mudstone, shale, sandstone, and conglomerate rests directly on the Moenkopi formation in parts of the map area.

Overlying the Chinle and forming precipitous canyon walls is the Jurassic Wingate sandstone, approximately 290 feet thick. The Kayenta formation of

Jurassic age rests on the Wingate and underlies a plateau which extends for several miles away from the river.

Structurally these rocks are part of the plateau region between the Green and Colorado Rivers and have a slight regional dip to the north.

Ore Deposits

The ore-bearing formation is a thin ledge-forming unit composed of gray, tan, and green sandstone containing conglomerate, mudstone, and clay lenses as well as considerable carbonized and silicified wood fragments.

Uranium occurs on these claims disseminated in conglomerate, shaly sandstone, shale, and clay and in carbonaceous matter sometimes included in these beds. Cross bedding and channels may be observed in some of the sediments. The uranium-bearing minerals autunite, torbernite, carnotite, and uranophane have been identified on the claims. Malachite and pyrite are common accessories. The ore body outlined by Bureau of Mines samples in the Danise No. 1 adits extends approximately 105 feet west from the outcrop and for at least 85 feet in a north-south direction. Average thickness is estimated to be 2.4 feet. Uraniferous material of non-ore grade covers a larger and undefined area around this ore.

Completed Exploration

The contract called for 5,000 feet of bulldozer stripping to expose the ore-bearing beds; 900 feet of drifting and crosscutting, i.e. 300 feet each at mineralized areas on the Willow No. 1, Aileen No. 8, and Danise No. 1 claims; and by amendment #4 dated April 1, 1953, for 1,300 feet of diamond drilling on the Willow No. 1 claim in lieu of part of the drifting and crosscutting.

A total of 287 feet of drifting was accomplished of which 187 feet was on the Danise No. 1 claim (fig. 3) and 100 feet on the Aileen No. 8 (fig. 5).

Because mineralization encountered is low grade and costs of underground work high the company transferred remaining funds from underground work to rim stripping. More than 6,000 feet of rim was stripped (fig. 2). Some Shinarump areas were too deeply buried beneath talus to expose by this method. Diamond drilling was substituted for part of the stripping to test a large low grade outcrop on the Willow No. 1 claim (fig. 4). Approximately 1,200 feet of drilling was completed from four sites on this claim.

Ore Reserves

For the purpose of certifying a discovery of uranium ore on these claims H. K. Thurber of the U. S. Bureau of Mines stated that small, tabular bodies of uranium and vanadium oxide minerals occur on the Aileen No. 1, 2, 8, and 9, the Danise No. 1 and 6, and the Willow No. 1 and 2 claims. Excepting the ore bodies on the Danise No. 1 claim these are all too low grade to mine at present prices.

The DMEA exploration program resulted in the delineation of approximately 1,832 tons of ore on the Danise No. 1 claim which averages 0.37 percent U_3O_8. Of this total, 1,162 tons of ore averaging 2.4 feet in thickness and 0.48 percent U_3O_8 is indicated in the underground workings (fig. 3). Of the total, approximately 670 tons of ore averaging 3.1 feet in thickness and 0.19 percent U_3O_8 was exposed by surface stripping on the Danise No. 1 claim (fig. 3). A factor of 11 was used to convert volume of ore to tons of ore.

Assays from the drilling on the Willow No. 1 claim accompanied the operator's final MF-104 form which was sent to DMEA Denver, Colorado. As soon as this data is returned to the Salt Lake City office of the Bureau of Mines a reserve calculation of this non-ore grade block will be made and forwarded to be made part of this final geologic report.

Conclusions and Recommendations

A small tonnage of medium- to low-grade uranium ore was discovered on the Bow Knot Bend claims as a result of the DMEA exploration program. In addition, several weakly radioactive areas were exposed. This area may be of interest in the future as a source of uraniferous material averaging less than 0.10 percent U_3O_8. To determine the tonnage and grade of such low grade material a detailed sampling program would be required. In view of the small size and generally low grade of the uranium-bearing areas discovered on these claims it is recommended that no further exploratory work be conducted here with DMEA aid.

Summary

The Excalibur Uranium Corporation was granted a DMEA loan, on work totalling $59,293.00 to aid in the exploration for uranium ore on claims in the Bow Knot Bend area of the Green River, Emery County, Utah.

Uranium occurs in disseminated Upper Triassic conglomerate, shaly sandstone, shale, and clay and in carbonaceous matter sometimes included in these beds. The uranium-bearing minerals autunite, torbernite, carnotite, and uranophane have been identified. The largest area of ore grade material measures approximately 105 feet in an east-west direction and approximately 85 feet in a north-south direction. Average thickness is about 2.4 feet.

Exploratory work completed under the contract includes more than 6,000 feet of bulldozer stripping of favorable beds, 287 feet of adits and cross-cuts and 1,220 feet of diamond drilling.

The DMEA exploration program resulted in the delineation of 1,162 tons of indicated ore averaging 0.48 percent U_3O_8 in the Danise No. 1 adits and 670 tons of inferred ore averaging 0.19 percent U_3O_8 in bulldozer cuts on the Danise No. 1 claim. An estimate of the tonnage of non-ore grade uraniferous material discovered by diamond drilling on the Willow No. 1 claim will be made and

forwarded as soon as the assay results are available.

Although this area may be of interest in the future as a source of uraniferous material averaging less than 0.10 percent U_3O_8, further exploratory work with DMEA aid does not seem advisable at the present time in view of the relatively small tonnage of ore discovered by the completed DMEA exploration program.

References cited -

McKnight, E. T. (1940) Geology of area between Green and Colorado rivers Grand and San Juan Counties, Utah. U. S. Geological Survey Bull. 908, Plate I.

Baker, A. A. (1946) Geology of the Green River Deseret - Cataract Canyon Region, Emery, Wayne and Garfield Counties, Utah. U. S. Geological Survey Bull. 951, Plate I.

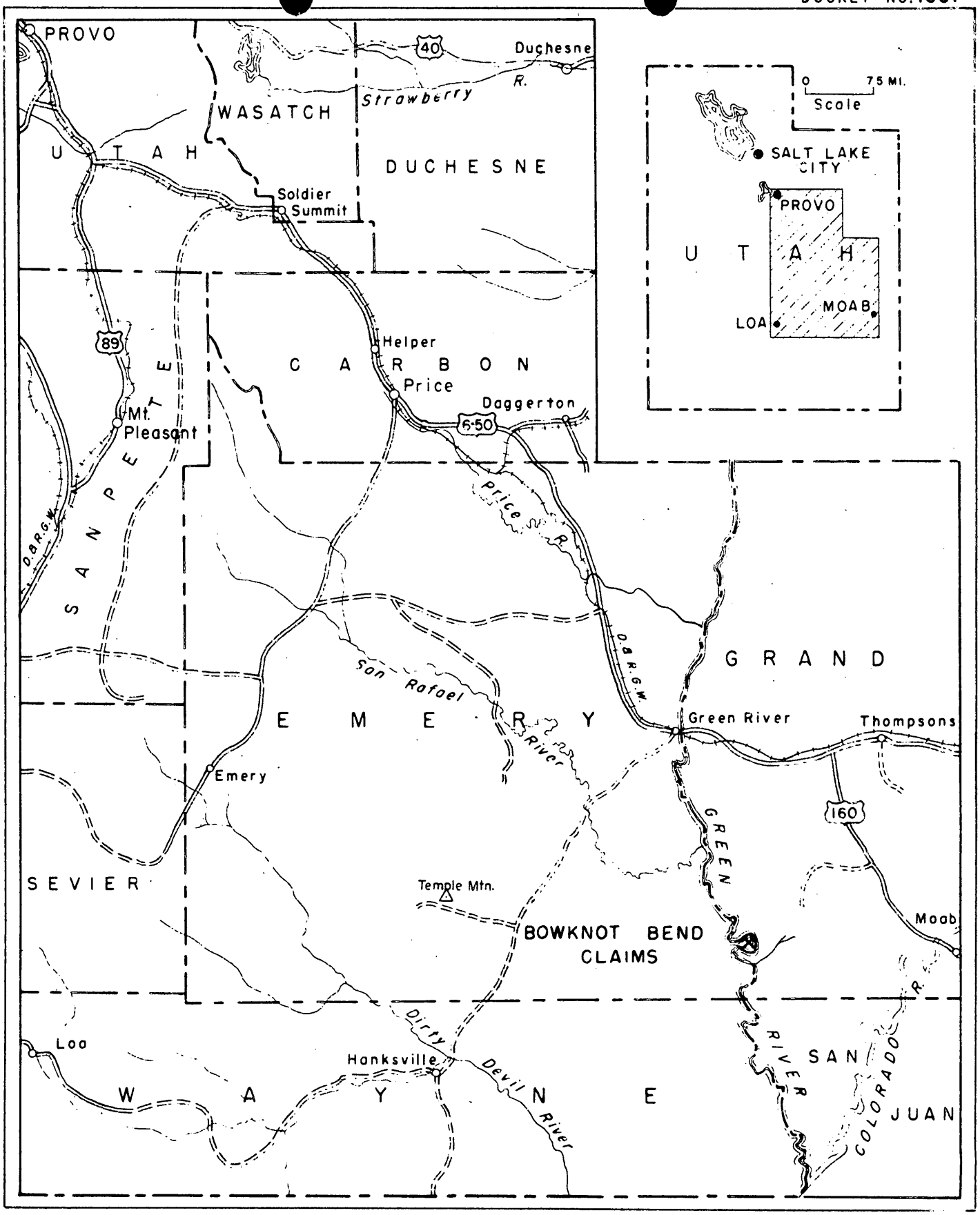

FIG. 0 INDEX MAP OF UTAH

0 5 10 15 20 MILES
Scale

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
1600 EAST FIRST SOUTH STREET
SALT LAKE CITY 1, UTAH

Mining Division
DEC 24 1953
BUREAU OF MINES
Denver, Colorado
DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 4 1954

December 22, 1953

Memorandum

To: W. H. King, Executive Officer, DMEA Field Team, Region IV

From: Chief, Minerals Development Branch, Mining Division, Region IV

Subject: Docket No. DMEA 1631X (Uranium), Contract Idm-E236, Excalibur Uranium Corp., Bow Knot area, Emery County, Utah

Op's Final Report

Attached are five copies of the operator's final report covering work accomplished under the subject contract. Considerable cost detail was included in the final MF-104 forms previously submitted. Total costs of each phase of the work are shown in the present report.

Maps attached to the final report are sufficiently detailed to illustrate the work accomplished. It is recommended that the operator's report be accepted.

Stephen R. Wilson

Stephen R. Wilson

Enclosure

DE... THE ... Defense Materials Administration ... 1954

S. R. Wilson

Dec. 18, 1953

N. K. Thurber, Jr.

Docket No. DMA 1631X (Uranium), Contract Idm-8236, Excalibur Uranium Corp., Bow Knot area, Emery County, Utah. Operator's final report

The operator's final report attached hereto has been reviewed. The narrative report is in sufficient detail in describing the work accomplished under the contract and the unit costs involved in each phase of the operation. The details of costs were included in the operator's final set of MF-184 forms, which were compiled after an audit by the DMA; thus the operator has presented only the total costs of each phase.

The report is somewhat deficient in geologic description and comment. This failure is due, in all probability, to the fact that the operator has no regularly employed geologist to prepare such a section, and Mr. Hamilton, the general manager of the corporation, who prepared the report, is not trained in geology.

The maps included in the final report show the status of access roads, rim stripping and underground workings at the close of the contract work. The maps are sufficient and are believed to be accurate.

In view of the present status of the company, it is recommended that the attached "Final Summary and Engineering Report" be accepted as the subject operator's final report.

N. K. Thurber, Jr.

N. K. Thurber, Jr.

NEW BUILDINGS AND IMPROVEMENTS

ROADS

To gain access to the Bow Knot Area, three miles of roads were authorized and constructed. Work began on constructing a road from the top of the Wingate to the floor of Spring Canyon, a vertical distance of approximately 800 feet, on February 1, 1952 and was completed on April 30, 1952. A considerable amount of money was expended by the Company in addition to that under terms of the Contract to complete the road. It can be conservatively estimated the Government participation to be one-third the total cost. Completion of the road permitted for the first time the moving of heavy equipment to the Green River and the area of exploration. $15,000.00, was allocated for this work of which $14,839.24 was expended, for a unit cost per mile of $4,946.41.

The attached map shows the location of the road from the top of the Wingate Formation to the floor of Spring Canyon and thence to the Green River and ferry site crossing.

PLANE AND TRUCK SERVICE

Previous to completion of the road, the only means of access to the area were either by air or river transportation, the latter a slow and hazardous method. Several airfields were constructed at or near the area of interest to furnish transportationto men and bring in supplies. After completion of the road, motor truck assumed this work and air travel was terminated. This service under terms of the Contract began February 1,1952 and was completed August 31, 1952.

Total authorized funds were $2,500.00 of which $2,200.13 was used.

DRIFTING

Underground work started on May 15, 1952 and continued until the last of August. Drifting operations on the Danise No. 1 Claim established to some extent the mineralization and channel trends of the area. A commercial grade of ore was encountered in the drifting operation with a diminishing intensity as the face progressed into the formation. At the conclusion of the work only weak geiger counter readings could be obtained from the two faces. The total advance made in drifting at the Danise was approximately 177 feet. It has been estimated that a mineable reserve of ore in the amount of 850 tons has been established as a result of drifting exploration at this point. The average grade will approximate .45% U_3O_8 and with a high lime content. There are no associated minerals of commercial value.

On July 15th, drofting began on the Aileen No. 8, Claim and continued to September 1, 1952. The faces in two parallel drifts were advanced approximately 55 feet in each. Only light mineralization was encountered near the contact in a conglomerate lense about 1½ feet thick.

A total of 287 feet of drifting was done out of a total of 900 authorized. The reason for the discontinuance of the operation was the increasingly poor showings obtained as the drifts were being advanced. At both locales the concentration of mineral seemed to be near the portals . The total expenditure for drifting was $10,514.01 and with a unit foot per cost of $36.63.

RIM STRIPPING

This work began on August 1, 1952 and the initial phase of the work saw the completion of access roads to the rim on the Danise No.1 and the Aileen No. 8 Claims.

Considerable time and effort was expended in stripping the rim on the 13 claims as noted on the attached map. Areas not stripped consisted of exceptionally heavy talus that afforded little opportunity to reach the rim or areas that were badly fractured presenting a dangerous condition for men and machine.

Evidence of mineralization was found at numerous places along the exposed rim with a prominent scour and fill on the Danise No. 1 Claim and Aileen 1 and 8.

A total of 862½ hours of dozer time was consumed on this work at a total cost of $20,068.42 and a unit cost of $23.27 per hour. Work in this category was completed February 28, 1953.

DRILLING

As a result of the rim stripping program and further study of the formation on the Willow No. 1 Claim, the contract was amended to permit core drilling the area. This work began on March 1, 1953 and was completed on March 31st. The drilling was done under contract by the Boyles Bros. Drilling Co.

Four sets of four holes each were fanned horizontally into the face of the exposure at various angles. 1220 feet of coreing was done with excellent core recovery. All cores were split and a sample taken of each five feet. The chemical assaying results were disappointingly low with no readings to indicate commercial ore at any point. The attached map indicates the drilling plan used.

The total cost of this category of work was $7,003.38 with a per unit foot cost of $5.74.

Excalibur Uranium Corp.
W D Hamilton

FILE COPY
SURNAME:

Talbert

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

NOV 17 1953

Mr. Donald T. Finch
DMA Auditor
224 New Customhouse
Denver 2, Colorado

Re: Idm-1236, DMA-1631
Excalibur Uranium Corporation
Emery County, Utah

Dear Mr. Finch:

Receipt is acknowledged of your Audit Certificate and Audit Report covering the above-cited Exploration Project Contract.

The Report is acceptable and normal distribution may be effected.

Sincerely yours,

(Signed) E. D. Talbert

E. D. Talbert, Acting Chief
Contract Administration
and Audit Division

WBorovies/wb
November 17, 1953

Copy to: Docket
Admr. Reading File
Mr. Chambers

R.C.G.
11-17-53

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

NOV 3 1953

Mr. Harry D. Cobb, President
The Excalibur Uranium Corporation
740 Main Street
Grand Junction, Colorado

Re: Docket No. [illegible]-1631X (Uranium)
Contract No. [illegible]-1836
Emery County, Utah

Dear Mr. Cobb:

Reference is made to your above-named Exploration Project Contract for uranium. You are probably aware that in some similar cases it has been found that some part or all of the land which is the subject of the exploration project contract consists of claims located on land which was subject to prior Federal oil and gas leases. The validity of such claims is doubtful, and in some cases the Atomic Energy Commission has issued a lease to the land for whatever benefit that may afford in curing the invalidity as far as uranium is concerned.

By the recent act of Congress approved August 12, 1953 (Public Law 250, 83d Cong.), mining claims located between July 31, 1939, and January 1, 1953, on United States Lands which were then subject to oil and gas leases, may be validated by the owners of such claims, if, not later than December 10, 1953, they

> ".... post on such claim in the manner required for posting notice of location of mining claims and file for record in the office where the notice or certificate of location of such claim is of record an amended notice of location of such claim, stating that such notice is filed pursuant to the provisions of this Act and for the purpose of obtaining the benefits thereof."

If any of the land which is the subject of your Exploration Project Contract includes a located claim or claims, the validity of which might be questioned on account of a previous oil and gas lease, the statute cited is called to your attention so that you may validate your rights as above indicated, if you consider this to be in your interest. This Agency deems such validation to be desirable even though the land in question may be covered by a lease from the Atomic Energy Commission.

Sincerely yours,

C. D. Mettendorf

Administrator

PLKnouse/gla
10-30-53
cc to: Docket
Region IV (2)
Div. contract file

50811

700

FILE COPY
SURNAME:

Murphy
Ellis
Carlson
Martin
Martin
Selfridge
Chairman

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

AUG 20 1953

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

Re: Docket No. DMA-1631X (Uranium)
Contract No. Dm-1236
Excalibur Uranium Corporation
Emery County, Utah

Dear Mr. King:

Enclosed are two copies each of a certification of discovery or development, a letter to Mr. Cooke, President of the Excalibur Uranium Corporation, and a letter to the Administrator of the Defense Materials Procurement Agency, all concerning the subject project.

The contract was written on the old form; therefore, certification must be made within six months following the date of work termination, which was March 31, 1953.

Although we have not received the final reports of the Operator and the Field Team and the final audit certificate, the certification of discovery has been made according to the recommendation contained in your memorandum dated July 6, 1953, as the six-month period might terminate before the above final data reaches our office.

During the course of underground exploratory work under the subject contract, uranium-vanadium ore was produced. Two shipments were made during this period, one weighing 10,420 lbs. and the other 89,655 lbs. Net return to the Operator from these shipments was $876.64 and $1,406.62, respectively. No royalty payments were made to the Government from the above production.

Kindly forward the final reports of the Field Team and the Operator as soon as possible.

Sincerely yours,

W. S. Martin
ES
ACTING Chairman, Operating Committee

Enclosures 6

APPROVED:

J. H. Hedges
ES
Member, Bureau of Mines

Dan Lawshee
By ES
Member, Geological Survey

Messrs: H.E. Keiser, Rm. 3611
A.P. Butler, Jr., Rm. 3206, GSA
Ellis
Murphy

FMurphy/gla/db
8-12-53
cc to: Adm. Reading File
Opr. Committee
Docket

8-20

FILE COPY
SURNAME:

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

AUG 20 1956

Mr. Edmund F. Mansure, Administrator
Defense Materials Procurement Agency
General Services Administration Building
Washington 25, D. C.

Re: Docket No. DMA-16311 (Uranium)
Contract No. Idm-1236
Excalibur Uranium Corporation
Emery County, Utah

Dear Mr. Mansure:

Enclosed is a copy of a certification of discovery or development of the captioned project.

The project contract was dated January 24, 1954, with Government participation to the extent of 90 percent, in an exploration project estimated to cost $59,293.00 (Government share $53,363.70). The project work was stopped by the Operator on March 31, 1955. We have not received the final Field Team report. However, we have received the interim report which contains sufficient information to justify a certification of discovery or development.

The contract authorized the construction of an access road, the construction of a barge ferry to cross the Green River, the construction of approaches from the river to adit sites, the driving of 900 feet of adits and crosscuts, and approximately 5,000 feet of rim stripping with a bulldozer tractor. In lieu of a portion of the 900 feet of adits and crosscuts, by amendment approximately 1300 feet of diamond drilling was substituted.

The work resulted in the delineation of approximately 1,162 tons of indicated ore averaging 0.[illegible] percent U_3O_8 in beds of 2.4 feet average thickness. Surface stripping has also delineated approximately 670 tons of ore containing 0.19 percent U_3O_8 in beds of 5.1 feet average thickness. Two shipments of ore, produced from exploration work, were made during the time of the project, one of 1,[illegible] pounds assayed 1.01 percent U_3O_8 and .11 percent V_2O_5, the other, weighing 9,655 pounds, assayed .35 percent U_3O_8 and .11 percent V_2O_5.

The Field Team states that the latter equipment is probably indicative of the grade minable in this area.

When we receive the final report from the Field Team, a copy will be forwarded to your office.

Sincerely yours,

C. O. Mittendorf (for)

Administrator

Enclosure

PKMurphy/ala
8-12-53

cc to: Adm. Reading File
Operating Committee
Messrs. Hedges, Rm. 4604
Thayer, Rm. 5216, GSA
Allis
Murphy
F. Johnson
AEC Field Team, Region IV (2)
Docket

FILE COPY
SURNAME:

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

Mr. Harry B. Combs, President
Excalibur Uranium Corporation
Vorbeck Building
Grand Junction, Colorado

Re: Docket No. DMA-1631X (Uranium)
Contract No. Idm-E236
Emery County, Utah

Dear Mr. Combs:

Enclosed is a "Certification by the United States of America of a Discovery or Development Under an Exploration Project Contract." This certification covers the discovery made under the above contract, as amended, on the Aileen No. 1, 2, 8 and 9, the Danise No. 1 and 6, the Willow No. 1 and 2 claims, and the extension of such discovered mineralization into any of the adjoining claims described under the contract.

By the terms of the Exploration Project Contract, as amended, and of the certification, all uranium and other valuable minerals produced from the above claims and extensions into other claims from January 24, 1952, the date of the contract, are subject to the Government's percentage royalty as set forth in the contract until the sum of $53,363.70 (subject to final audit) is paid, or until January 24, 1962. One shipment of uranium ore, weighing 9,613 pounds, from which your company received $694.90 net, is excepted from the above royalty, as this ore was mined before the contract was in effect.

Payments should be made to Mr. W. H. King, Executive Officer, DMEA Field Team, Region IV, 224 New Customhouse Building, Denver 2, Colorado. Checks should be payable to the Treasurer of the United States. The purchaser should be advised to deduct the royalties from the amount due on each shipment and forward the check directly to the Executive Officer. Any bonus payments or allowances received by your company from the sale of ore are considered to be part of the purchase price to which the Government's royalty applies. Royalty payments to the Government should be accompanied by suitable evidence, such as copies of settlement sheets, showing quantity and grade of the product sold, the name of the purchaser, and the price and charges, certified to be correct by the purchaser.

You are requested to notify Mr. King of any changes in ownership or production rights that might have any effect on the Government's right to its percentage royalty. Also, if production ceases at any time for an extended period, kindly notify Mr. King at six-month intervals that no production has been made, when that is the case.

Sincerely yours,

C. O. Mittendorf
Administrator

Enclosure

PMMurphy/gla/db/gla
8-12-53
cc to: — Adm. Reading File
~~Mr. Edward Fehrenbach, Adm. Asst.~~
— Operating Committee
— Mr. Hedges, Rm. 4604
— Mr. Thayer, Rm. 5216, GSA Bldg.
— Docket
— Field Team, Region IV (2)
— Mr. Ellis
— Mr. Chambers
— Mr. Murphy
— Mr. F. E. Johnson

Excerpt from
Region IV
Monthly report
July 1953

E-236 DMEA1631X - Excalibur Uranium Corp. (Uranium) ~~Grand and~~
Emery Counties, Utah

Contract work has been completed and final MF-104 forms re-received from the operator. The property has been sampled and certification of discovery recommended. Final engineering report in preparation.

STANDARD FORM NO. 64

7/22/53 gla
pc

Office Memorandum • UNITED STATES GOVERNMENT

TO : E. Wm. Ellis, DMEA Member
Uranium Commodity Committee

DATE: July 16, 1953

FROM : Arthur P. Butler, Jr., USGS Member
Uranium Commodity Committee

SUBJECT: Engineering Final Report DMEA Docket-1631 (uranium), Contract Idm-E236, Excalibur Uranium Corp., Contractor; Willow, Danise, and Aileen groups of claims, Emery County, Utah.

I have reviewed the engineering report on the results of exploration at the property identified in the subject above. I concur with the conclusions of the Field Team that the exploration as described in this report under the DMEA contract resulted in a certifiable discovery.

Arthur P. Butler, Jr.

Arthur P. Butler, Jr.

Copy to E. Wm. Ellis (2)

7/20/53 gla

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

224 New Customhouse
Denver 2, Colorado

July 6, 1953.

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Field Team, DMEA, Region IV

Subject: Docket No. DMEA-1631, Contract Idm-E236 (Uranium), Excalibur Uranium Corporation, Emery County, Utah.

Enclosed are four sets of data consisting of the following memorandum relevant to a certification of discovery as a result of the exploration work performed under the subject contract:

1. Memorandum report, dated June 24, 1953, with attached maps from H. K. Thurber, Jr. of the Bureau of Mines, wherein he recommends that a certification of discovery be executed and gives the basic information necessary for the preparation of the certificate.

2. Memorandum, dated July 2, 1953, from the Chief, Minerals Development Branch, Mining Division, Region IV, in transmittal of Thurber's report.

3. Memorandum, dated July 6, 1953, from the Chief, Mining Division, Region IV, forwarding the above material for the consideration of the DMEA Field Team, Region IV.

We recommend that a certification of discovery or development of ore be prepared on the basis of the information contained in Thurber's report.

Final payment to the Operator has not been made because the project cost accounting records have not been made available for the final audit by the Contract Administration and Audit Division.

W. H. King
W. H. King

A. H. Koschmann
A. H. Koschmann

Reviewed by
DMEA OPERATING COMMITTEE
7-15-53
(date)

Enclosures

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Mining Division
Region IV

July 6, 1953.

Memorandum

To: Field Team, Region IV

From: Chief, Mining Division, Region IV

Subject: Docket No. DMEA-1631, Contract Idm-E236 (Uranium), Excalibur Uranium Corporation, Emery County, Utah.

Enclosed are six copies of a memorandum report prepared by H. K. Thurber, Jr., Bureau of Mines, and transmittal thereof from the Chief, Minerals Development Branch, Mining Division, Region IV, concerning certification of ore discovery as a result of the exploration work performed under the subject contract.

This office concurs in the recommendations of the Field Engineer and the basis for the certification.

W. H. King
W. H. King

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE
7-15-53
(date)

FT memo recommending Certification

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
1600 EAST FIRST SOUTH STREET
SALT LAKE CITY 1, UTAH

July 2, 1953

Memorandum

To: W. N. King, Chief, Mining Division, Region IV

From: Chief, Minerals Development Branch, Mining Division, Region IV

Subject: DMEA-1631, Contract Idm-8236, Excalibur Uranium Corp., Emery County, Utah. Information for certification of discovery

Attached are six copies of a memorandum prepared by H. K. Thurber concerning certification of ore discovery on property included under the subject contract. The contract was prepared on the long-form MF-200 (June 1951).

Rim stripping, drifting, and diamond drilling under the contract disclosed uranium mineralization in three general areas. Mineralization at the north end of the property is found on the Aileen No. 1, Aileen No. 2, Aileen No. 8, and Aileen No. 9 claims. Near the central part of the property, the most promising mineralization is found on the Denise No. 1 claim and probably extends through the Denise No. 2 claim. Near the south end of the property, low-grade uranium mineralization occurs on the Willow No. 1, Willow No. 2, and Denise No. 6 claims. All above-mentioned claims should be included in a certification of discovery. The ores occur in the Shinarump conglomerate near the contact of this formation with the underlying Moenkopi formation. Mineralization extends beyond the rim along the strike and dip of the Shinarump conglomerate.

Three shipments of ores have been made from the Excalibur property and are listed in Thurber's memorandum. No royalties have been paid by the contractor, but sufficient information is available to enable the operator to pay royalty after a certification of discovery has been issued. It has been determined that the first-listed shipment is not subject to royalty, as this ore was mined before the contract was in effect. Information concerning this decision is contained in a letter from Frank E. Johnson to W. H. King dated December 18, 1952.

Stephen R. Wilson
Stephen R. Wilson

Reviewed by
OFFICE MINING COMMITTEE
2-10-53
(Date)

Enclosure

S. R. Wilson ✓ June 24, 1953

H. K. Thurber, Jr.

DMEA-1631, Contract Idm-E236, Excalibur Uranium Corp., Emery County, Utah. Accommendation of certification of discovery.

The work on the subject property has been completed and the areas of most consistent uranium mineralization were sampled on June 6, 1953 in company with Wilbur D.Hamilton, manager, with a certification of discovery in view. Sample data believed to be reliable were obtained from company records and are used with the company's permission in calculations of indicated ore reserves outlined in the following paragraphs.

The exploratory work under the contract consisted of driving underground adits on the Danise No. 1 claim and the Aileen No. 8 claim as well as bulldozer stripping to expose outcrops of the Shinarump formation on the Willow, Danise, and Aileen group of claims. In addition, diamond drilling totaling over 1,200 feet was done on Willow No. 1 claim. The areas of this work are shown on the attached maps traced from company maps.

The area of strongest uranium mineralization discovered by DMEA exploratory work is on the Danise No. 1 claim. The underground adits extended under the contract, have discovered approximately 1,162 tons of indicated ore averaging 0.48 percent U_3O_8 of 2.4 feet average thickness. The gross value of the minable portion of this ore at current published AEC prices is approximately $57,000. Surface stripping on the same claim discovered approximately 670 tons of ore containing 0.19 percent U_3O_8 of 3.1 feet average thickness. At current published AEC prices, the gross value of the minable portion of this ore is approximately $12,300.

The attached sample map, Danise No. 1 workings, Bow Knot area, Emery County, Utah, shows the location, thickness, and grade of samples cut by AEC and the company which are believed to be accurate. Also shown on this map are the plan areas of arbitrary blocks used in arriving at the estimate of indicated ore for purposes of certification of discovery. A summary of the tonnage, grade, and thickness of the blocks follows:

Reviewed by
DMEA OPERATING COMMITTEE

7-15-53
(date)

Block	Tons	Percent U_3O_8	Average thickness, feet
A	240	0.53	1.7
B	256	.23	3.1
C	666	.56	2.5
Totals	1,162	.43*	2.4

*Weighted average.

Assuming the ore to be 70 percent recoverable, the minable ore totals approximately 813 tons. Under current AEC price schedules, 0.48 percent U_3O_8 ore may be sold for over $71.25 per ton. Thus, 813 tons would gross approximately $57,900.

The area immediately south of the Denise adits was stripped to expose the Shinarump-Moenkopi contact and to determine the configuration and extent of the channel. Ore encountered during this stripping was sampled as shown on the attached map. The mineralization is consistent over a strike length of over 75 feet and reaches its maximum thickness in this area. A reserve of indicated ore was calculated from three equally spaced samples taken at 125, 150, and 175 feet from the portal of adit No. 2. The projection of the surface exposure underground was arbitrarily taken as one-half the length of the outcrop. Simple calculations show that this area contains approximately 670 tons of ore containing 0.19 percent U_3O_8 an average of 3.1 feet thick. Assuming this ore to be 70 percent recoverable, there is approximately 468 tons of minable ore. The gross price of this grade ore from current AEC price schedules is approximately $26.89 per ton. Thus the value of the indicated ore in the area is approximately $12,300.

Sample results in the underground work on the Aileen No. 8 claim are not available but some production is known to have been secured from the two adits. The ore shipped was closely sorted and sacked. This production is included in the record of shipments tabulated in a later paragraph.

The surface stripping on the Aileen group revealed a small but definite channel on Aileen No. 1 claim. This is shown on the attached map. Sampling on this channel shows consistent low-grade uranium mineralization, but only one sample above the minimum acceptable grade. This is sample 4 near the middle of the channel. Because of the well-defined character of the channel and favorable lithologic character of the rock, this channel is believed to have excellent possibilities as a producing area.

The results of diamond drilling under amendment No. 4 to the contract are not at hand, but the drilling showed a large, consistent, low-grade deposit on Willow No. 1 claim which, although too low grade

to be minable under present market conditions, represents a large tonnage of ore suitable for concentrating on the property should this become feasible in the future.

A tabulation of the shipments made from the Danise No. 1 and the Aileen No. 8 workings follows:

Mill	Dry weight, pounds	Assay, percent U_3O_8	V_2O_5	$CaCO_3$	Net received
Climax Cr. Jct.	9,613	1.34	0.66	--	$ 695.99
Vitro Chem. SLC	18,428	1.01	.14	12.32	876.64
A. S.& R. Monticello	89,655	.35	.11	15.4	1,408.62
Totals	117,696 (58.8 tons)				$2,981.16

The greater part of the tonnage shown above was mined in the course of underground exploratory work under the subject contract. The last shipment shown is probably indicative of the grade minable in this area.

In view of the production secured from the Danise No. 1 and Aileen No. 8 adits, along with the uranium mineralization and ore discovered by rim stripping, it is recommended that a certification of discovery be made on the Willow, Danise, and Aileen groups of claims explored under DMEA contract Idm-2236.

H. K. Thurber, Jr.

H. K. Thurber, Jr.

FILE COPY
SURNAME:

Chamber

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

1631

JUN 1 0 1953

Peat, Marwick, Mitchell & Company
Certified Public Accountants
United States National Bank Building
Denver 2, Colorado

Gentlemen:

Reference is made to your letter of June 1, 1953, requesting confirmation of an account of the Excalibur Uranium Corporation with the United States Government, Defense Minerals Exploration Administration. I am referring your request to our auditor in Denver, Colorado, who will fill out the correct amount due the United States from the Corporation and send to you.

There will doubtless be a difference between our accounts and the Excalibur Uranium Corporation for the reason that we usually withhold payment on the last voucher until a complete audit is made. The auditor, however, can give you a statement of the account, plus the amount which is being withheld, all of which is subject to final audit.

It appears from the amount stated in your letter that the Corporation is carrying on its records the total cost of this project. Since the Government advances to the Corporation only 90 percent of the cost of the Corporation, our claim would be only for 90 percent of the total cost.

Sincerely yours,

(Signed) J. L. Chambers

Jay L. Chambers, Chief
Contract Administration
and Audit Division

MD 6-10-53

JLChambers/wb
June 9, 1953

Copy to: Mails & Files
Admr. Reading File
Mr. Chambers
Mr. Brading

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

224 New Customhouse
Denver 2, Colorado

May 15, 1953

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 18 1953

Memorandum

To: C.O. Mittendorf, Administrator, DMEA

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket No. DMEA-1631X (Uranium), Contract Idm-E236, Excalibur Uranium Corporation, Emery County, Utah

Enclosed for your records are the original and two copies of a Drilling Agreement between Excalibur Uranium Corporation and Boyles Bros. Drilling Company, and three copies of the Government's approval of the Drilling Agreement as executed by this office.

Distribution of copies of the Drilling Agreement have been made to T.A. Christensen, S.R. Wilson, and one copy retained for our records.

W.H. King

W.H. King

Enclosures

5/18

DOCKET COPY

APPROVAL OF SUBCONTRACT

To: Excalibur Uranium Corporation

That certain contract, six copies of which you have submitted with your request for approval, to be effective on or about March 9, 1953, between you and Boyles Bros. Drilling Company, for the performance of core drilling operations on Willow Claim No. 1, which is all or a specific element of the work described in an Exploration Project Contract dated January 24, 1952, Idm-E236, Docket No. DMEA-1631X, is hereby approved by the United States of America, subject to the following terms and conditions:

1. The Government shall not be nor be considered to be a party to said independent contract, and the Government's right to terminate the exploration project contract under any of its provisions shall not in any manner be affected by reason of said independent contract.

2. Regardless of the provisions of said independent contract, the Government will participate in the payments to the independent contractor only on account of work actually performed and that conforms with the provisions of the exploration project contract, and only to the extent that the Government deems the unit prices for the work under the independent contract to be reasonable and necessary.

3. The said independent contract shall not have the effect of increasing the estimated total cost of the exploration project contract or the maximum amount which the Government will pay as provided in the exploration project contract.

Dated: May 15, 1953

THE UNITED STATES OF AMERICA

By W.H. King

W.H. King, Executive Officer,
DMEA Field Team, Region IV

DRILLING AGREEMENT

1. PURPOSE

The purpose of this agreement is to perform core drilling as herein described on attached map for the Excalibur Uranium Corporation, Grand Junction, Colorado and to deliver cores and sludge from mineral deposits and rock formations at the Bow Knot area, Emery County, Utah.

2. DESCRIPTION OF WORK

The location and depth of all drill holes shall conform to the specifications as outlined on the attached map.
Coring is to begin at the face.
The Excalibur Uranium Corp., herein referred to as the Company, does not guarantee a definite amount of footage to be drilled as a result of this agreement.
Core will be delivered in AX size (1 3/16 inch diameter), Diamond Core Drill Mfg. Association Standards.
Each run not to exceed 5 feet in length.

3. SUPERVISION OF THE WORK

The work will be performed under the direction of a project foreman who will be designated by the Company.

4. COMMENCEMENT AND PROSECUTION

a. The Contractor shall commence actual drilling operations with all equipment and the necessary crew required at the site of the work on or about March 9, 1953.
b. The Contractor shall at all times prosecute the work diligently, expertly and continuously as herein provided and in a workmanlike manner.

5. CONTRACTOR'S EQUIPMENT, SERVICE, and SUPPLIES.

a. Equipment
The Contractors equipment shall be such as is necessary and proper to perform the work specified and shall include but not be limited to the following: The required drilling equipment, including necessary accessories, power units, tools, and spare parts to conduct drilling and furnish the Company with the required cores and/or cuttings from all drill sites.
b. Services and Supplies
The Contractor shall furnish all labor, materials, supplies, insurance, adequate transportation facilities for his own personnel and equipment including drill rig and all services for performance of the work.

6. COMPANY'S EQUIPMENT AND SERVICES

a. Maintain bulldozer roads to drill sites in such condition as is normally permitted by this type of construction and by the soil, topographic, and climatic conditions existing in the district to be drilled.
b. Furnish core boxes and sludge containers.
c. Supply an employee to care for the core and sludge samples after they have been placed in the core boxes or sludge containers provided by the Company.

7. PROJECT FOREMAN: CONTRACTOR'S REPRESENTATIVE

a. Project foreman: The project foreman will designate the location, diameters, number, position, depth and inclinations of all holes to be drilled; determine depths at which drilling may be temporarily interupted and determine when operations will be interrupted, suspended, or adjusted because of conditions arising in the field.

b. Contractor's Representative: The contractor shall have a representative or foreman in the field who has been duly authorized to make decisions relative to the operations. The identity of such individual to be made known to the Company.

8. PERFORMANCE OF THE WORK

The Contractor shall keep accurate records of drilling operations and shall submit daily to the project foreman a driller's log.

9. The Contractor shall present invoices or vouchers monthly for footage drilled up to and including the last day of each month.
Unit costs authorized by this agreement are:

1.	Mobilization	$500.00
2.	Drill holes up to 150 ft. in length of AX size	3.75 per foot
3.	Reaming	1.50 per foot

10. This contract is entered into under the provision of and for the performance of core drilling operations on Willow Claim No. 1 as authorized under Contract Idm-E236.

Date 3/13/53

Executive Uranium Corp
Company

By W D Hamilton

Address 740 Main
Grand Jct. Colo

Date 3/16/53

Boyles Bros. Drilling Company
Contractor

By G. M. Greenworthy

Address 1321 South Main Street
Salt Lake City, Utah

700
FILE COPY
SURNAME:

Ellis
Chandler
Rubin
Askam
Martin
Fehner
Mattingly

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

MAY 12 1953

Mr. G. E. King
Executive Officer
DMA Field Team, Region IV
224 New Customhouse Building
Denver 2, Colorado

Re: Docket No. [illegible]A-1[illegible] (Uranium)
Contract No. [illegible]m-236
Excalibur Uranium Corporation
Emery County, Utah

Dear Mr. King:

With reference to amendment No. [illegible] of the captioned contract, we are enclosing a copy of the Solicitor's memorandum dated May 1, 1953, to the Administrator.

No change in the amendment is suggested, however, we are simply sending you a copy of the memorandum for your files.

Sincerely yours,

P.H. 5-12-53

W. S. Martin
ACTING Chairman, Operating Committee (HB)

Enclosure

EWEllis/gla 5-7-53
cc to: Adm. Reading File
Operating Committee
Docket
Messrs. H.D.Keiser, Rm. 3641
A.F.Butler, Jr., Rm. 3206 GSA
Ellis
Knouse
DMA Field Team, Region IV

Concur:

J. H. Hedges
Member, Bureau of Mines (HB)

T. P. Thayer
Member, Geological Survey (HB)

May 11, 1953

Memorandum

To: Miss Lanahan, Statistics & Control Division, DMEA

From: Hazel Berry, Operating Committee, DMEA

Subject: Amendment No. 4, Idm-E236, DMEA-1631, Excalibur Uranium Corporation.

Attached is the docket copy of Amendment No. 4 to the above-mentioned contract. Also attached are memorandum from Rare & Misc. Metals Division, dated April 17, 1953, and memorandum from the Chief Counsel, dated May 1, 1953.

A letter to the Field enclosing a copy of the Chief Counsel's memorandum went through the Operating Committee today. This letter gives clearance to the Amendment and was surnamed by Audit and Legal. Will you please clear the Operating Committee for this amendment.

cae
5/12

Attachments

5/19/53 gla

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

224 New Customhouse
Denver 2, Colorado

May 8, 1953

Memorandum

To: George C. Selfridge, Chairman, Operating Committee
Defense Minerals Exploration Administration

From: Executive Officer, DMEA Field Team, Region IV

Subject: Contract Idm-E236, Docket No. DMA 1631X, Excalibur Uranium Corporation (Uranium), Emery County, Utah

Enclosed are six copies of proposed amendment No. 4 to Contract Idm-E236, which were requested in your letter dated May 5, 1953.

W. H. King
W. H. King

Enclosures

cc
5/11

Docket copy

EXPLORATION PROJECT CONTRACT
THE EXCALIBUR URANIUM CORPORATION
DOCKET NO. DMA-1631A

AMENDMENT NO. 4

Contract Docket No. DMA-1631A (Idn-E236), dated January 24, 1952, between the United States of America and The Excalibur Uranium Corporation is amended effective July 1, 1952, as follows:

Referring to Amendment No. 3 dated November 17, 1952, and to the following item on the second page thereof:

1 - Tractor-bulldozer (TD-24 or equivalent) with operator @ $15.00 per hour $15,840.00

said item is stricken from said Amendment No. 3, and in lieu thereof, it is agreed as follows:

The operator is authorized to enter into an independent contract to accomplish the bulldozing referred to in said Exploration Project Contract, as amended, by the use of an International Harvester Tractor, Model TD-24 (or equivalent) with operator, and all costs of operations, including repairs, supplies, transportation to and from site, at the rate of $15.00 per hour for actual operating time, at a total cost estimated at $15,840.00.

This Amendment shall not be construed to increase the total estimated cost of the project (the additional cost to be covered by allocations from other estimated costs), the aggregate total amount which the Government may pay, or the percentage of the costs which the Government may pay under the provisions of Article 13 of the Contract form.

Dated _____, 1952.

The Excalibur Uranium Corporation

By _____

United States of America

By _____
Executive Officer, Jab
Acting Field Team, Region IV

Hoffmann
Oranskin

FILE COPY
SURNAME:

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

Mr. L. M. King
Executive Officer
DMEA Field Team, Region IV
22h New Customhouse Building
Denver 2, Colorado

MAY 5 1953

Re: Docket No. DMA-1631X (Uranium)
Contract No. Ida-4236
Excalibur Uranium Corporation
Emery County, Utah

Dear Mr. King:

This is with reference to your memorandum dated April 10 regarding the proposed amendment No. 4 transmitted to your office for execution with our letter dated December 15, 1952.

After a careful review of the Field Team's justification for Amendment No. 3, executed by your office, we concur with your recommendations. Please return to this office the original and all copies of the proposed Amendment No. 4 referred to above.

Sincerely yours,

George C. Selfridge (JHB)
Chairman, Operating Committee

APPROVED:

J. H. Hedges
Member, Bureau of Mines (JHB)

A. R. Kinkel, Jr.
Member, Geological Survey (JHB)

FLKnouse/eef 4/30/53

cc to: Adm. Reading File
Oper. Committee
Docket
Messrs. HDKeiser, Room 3641
APButler, Room 3206
Ellis
Knouse
DMEA Field Team, Region IV (2)

J. C. 5/4/53

May 4, 1953

Memorandum

To: Miss Lanahan, Statistics and Control Division, DMEA

From: Hazel Berry, Operating Committee, DMEA

Subject: Amendment No. 3, DMEA-1631, Idm-E236, Excalibur Uranium Corporation.

A proposed Amendment No. 4 was referred to the Field for execution to correct Amendment No. 3 in December, 1952. The Field sent in copies of an executed Amendment No. 4 the early part of April, 1953, but it was not the proposed amendment which was referred to the Field.

However, as a result of other correspondence with the Field Amendment No. 3 has been accepted by the Washington office. A letter going through the Committee on May 4, 1953, advises the Field of this approval. Attached is the docket copy of Amendment No. 3, which has been given clearance by the Washington office.

Attachment

FILE COPY
SURNAME:

140

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

AEKane
Putin

May 1, 1953

Memorandum

To: The Administrator

From: Chief Counsel

Subject: Excalibur Uranium Corporation, Docket No. DMEA-1631

Reference is made to Mr. King's memorandum to you dated April 1, enclosing Amendment No. 4 to the subject contract which was executed in the field. There is no fundamental objection to this amendment, but the following comments are made:

1. The amendment provides that "in lieu of a portion of the 900 feet of adits and crosscuts," there are to be 1,300 feet of diamond drilling at a cost of $8,000, and the cost of the drifting and crosscutting was correspondingly lessened. It would have been preferable definitely to state the footage that the crosscuts are to be lessened--approximately 216 feet, and to state where the drifting and crosscutting was to be eliminated.

2. The amendment increases the cost of assaying from $300 to $2,100; yet the contract provides that the estimated total cost of the project is not to be increased. It is therefore assumed that there is sufficient money in the contract to cover this additional work.

AEKane/emd
Copy to: Mails and Files
E. W. Ellis
J. L. Hofflund
A.E.Kane
chron.

AEKane
for J. L. Hofflund
Chief Counsel

FILE COPY
SURNAME:

800
Chambers

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

APR 22 1953

Mr. Donald T. Finch
DMEA Auditor
224 New Customhouse Building
Denver 2, Colorado

Re: DMA-1631, Idn-E236
Excalibur Uranium
Corporation

Dear Mr. Finch:

Reference is made to your letter of April 16, 1953, transmitting three audit certificates and two audit reports for the above-cited contract.

The certificate and report have been examined and approved for appropriate distribution.

Sincerely yours,

(Signed) J. L. Chambers

Jay L. Chambers, Chief
Contract Administration
and Audit Division

WBorovies/wb
April 22, 1953

Copy to: Docket
Admr. Reading File
Mr. Chambers

4/22/53

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

April 17, 1953

Memorandum

To: Hazel Berry, Operating Committee

From: Grace L. Ault, Rare & Misc. Metals Division

Subject: Review of Amendment

Mr. Knouse has reviewed Amendment No. 4, dated April 1, 1953, to Contract Idm-E236, Docket DMA-1631X, Excalibur Uranium Corporation, and recommends that the amendment be referred to the Legal Division for review. Mr. Knouse has no comments to make other than the amendment is satisfactory to him if it meets the approval of the Legal Division.

Grace L. Ault
Grace L. Ault

Posted 4-20-53

RECEIVED
APR 22 1953
GENERAL COUNSEL
DEFENSE MINERALS
ADMINISTRATION

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

224 New Customhouse
Denver 2, Colorado

April 10, 1953

Memorandum

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 13 1953

To: Chairman of the Operating Committee
Defense Minerals Exploration Administration

From: Executive Officer, Field Team, Region IV

Subject: Docket No. DMA 1631X, Contract Idm-E236, Excalibur Uranium Corporation.

Reference is made to your letter dated April 6, 1953 regarding Amendment No. 3 to Contract Idm-E236, Excalibur Uranium Corporation.

In the memorandum dated December 9, 1952, the Chief Counsel bases his opinion on the assumption that the bulldozer is involved in an independent-contract transaction. He was evidently misinformed, as the bulldozer was actually rented to the project. This was thoroughly explained in our memorandum dated December 19, 1952. At that time we explained that the project was in an isolated location that working conditions were severe and that the costs of this project could not be compared to other operations. Several months ago, when H. D. Keiser was in Denver, this matter was discussed with him. You might wish to consult with him on this problem.

The Operator has submitted documentary proof that he has paid for the bulldozer at this hourly rate, and we have reimbursed him for the Government's prorata share of the costs incurred for several months. We believe that these costs are reasonable.

We do not believe that there is any justification for rescinding Amendment No. 3. The only alternative would be to terminate the contract.

W. H. King

W. H. King

Executive Officer
Field Team, Region IV

FILE COPY
SURNAME:

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

APR 6 1953

Mr. [illegible] King
Executive Officer
[illegible] Field Team, Region IV
224 New Customhouse Building
Denver 2, Colorado

Re: Docket No. [illegible]-1631 (Uranium)
Contract No. Idm-236
Maxwellite Uranium Corporation
Emery County, Utah

Dear Mr. King:

This is with reference to Mr. J. F. Shaw's memorandum (for you) dated December 19, 1952 and our letter to you dated December 15, 1952, transmitting our proposed Amendment No. 4 concerning the tractor rental rate allowed in the Amendment No. 3 executed by your office. (page 2):

"1. Tractor-bulldozer ([illegible]-24 or equivalent) with operator $15.00 per hour $15,[illegible]"

In the executed contract Docket No. [illegible]-1[illegible] (Uranium) Contract No. Idm-[illegible], Maxwellite Uranium Corporation, Grant and Emery County, Utah, located across the river from the captioned Contract No. Idm-236, there is listed under Exhibit "A" as follows:

"Estimated Costs of the Project
(Indicates allowable maximum)

"(1) Independent Contracts	Road Construction	Rim Stripping
2 - International Harvest Model TD-24 or equal w/dozer or equivalent sized unit, including operator repairs, supplies, transportation to and from site, and all other costs $15.00/hr. for actual operating time.		
3.0 hours	$4,5[illegible]	
1190 hours		$17,850.[illegible]

We are unable to understand why the operator can not rent the same size tractor units at the same rental rate for units of work performed for each project. We estimate the rental cost per hour under Contract

No. Idm-1236 (as amended by Amendment No 3) including the cost of supplies, repairs, and transportation to and from the job site will exceed $20 per hour; this rate will exceed the rate allowed in any contract executed by DMEA. In our opinion the Operator should execute Amendment No. 4 (transmitted in our letter of December 15, 1952), in lieu of that item in the executed Amendment No. 3.

Sincerely yours,

George C. Selfridge

(s/G) 4/6/53

Chairman, Operating Committee

APPROVED:

J. H. Hedges (s/G)

Member, Bureau of Mines

A. R. Mead, Jr. (s/G)

Member, Geological Survey

MLKouse/eef
3/31/53

cc to: Adm.Reading Files
Docket
Operating Committee
Messrs. WKeiser, Rm. 3641
APhetler, Rm. 3206
Ellis
Knouse

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

224 New Customhouse
Denver 2, Colorado

April 1, 1953

RECEIVED
APR 6 1953

Memorandum

To: C. O. Mittendorf, Administrator, DMEA

From: Executive Officer, DMEA Field Team, Region IV

Subject: Amendment No. 4 to Contract Idm-E236, Docket DMA 1631X, Excalibur Uranium Corporation

Enclosed are the original and two copies of Amendment No. 4 to Contract Idm-E236. Copies of this amendment have been given to the operator, the Fiscal Officer, Region IV, and a copy has been retained for our files.

Also enclosed are three copies of a letter from the operator requesting this amendment and three copies of a memorandum from a Bureau of Mines engineer approving this amendment.

W. H. King
W. H. King

Enclosures

cos
4-6

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
1600 EAST FIRST SOUTH STREET
SALT LAKE CITY 1, UTAH

February 17, 1953

Memorandum

To: W. N. King, Chief, Mining Division, Region IV

From: Chief, Minerals Development Branch, Mining Division, Region IV

Subject: DMMA-1631X, Contract Idm-8236, Excalibur Uranium Corp., Emery County, Utah. Amendment request to permit diamond drilling.

Enclosed are six copies of a letter submitted by the subject contractor asking for permission to conduct diamond drilling operations under the contract terms. Comments by the inspecting engineer, W. E. Young, are included.

It is recommended that an amendment be prepared to permit work as outlined in Young's memorandum.

Stephen R. Wilson
Stephen R. Wilson

Enclosure 1

S. R. Wilson

February 12, 1953

W. E. Young

DMEA 1631X, Contract Idm-E236, Excalibur Uranium Corp., Emery County, Utah. Request for amendment to contract to permit diamond drilling

This application for amendment was prepared at our suggestion. The applicant secured the estimate of mobilization and footage costs from Boyles Bros. Drilling Co. of Salt Lake City. These contract drilling costs appear to be in line with diamond drilling costs at other locations on the Plateau. Other types of drilling are less expensive, but cannot be used in this location because of difficult terrain. Although the method of approach is somewhat different than that usually employed, it may give some indication of the size and grade of this deposit. If the results indicate a deposit of importance, it may be justifiable to excavate a bulldozer trail along the top of the Shinarump and drill down holes to properly evaluate the grade.

The total of funds to be transferred, as set up in the request, amounts to $6,730. It is suggested that this be increased to $8,000. It is estimated that at least $1,800 will be needed to cover assaying costs. In the event core recovery is low, it will be necessary to assay sludges as well as cores. It is estimated that 300 sections of core will be sampled. In addition, some provision should be made to cover the expense of a sampler for the period of drilling. This expense is estimated at $370 for a period of one month.

It is recommended that the request for amendment be granted to permit 1,300 feet of diamond drilling at a total cost of $8,000.

W. E. Young

W. E. Young

APPLICATION TO AMEND
CONTRACT Idm-E236 DOCKET 1631X

Gentlemen: February 9,1953

The Excalibur Uranium Corporation requests that Contract Idm-E236, Docket 1631X be amended to permit the core drilling of certain areas as shown on the attached map.

This area was made accessible by the road and rim stripping work performed under the above numbered contract. Due to the thickness of the Shinarump Formation on the Willow No. 1 Claim and the favorable indications, we believe it feasible to drill the area in an effort to determine the extent and mineral content of the deposit. If initial drilling results prove unfavorable,we retain the privilege of discontinueing the drilling program.

We have estimated the costs involved and request the following items be made a part of the contract.

1. Mobilization Contractor's time and expense of moving on and off the job.	$ 500.00
2. Core drilling (AX or EX Size) 1200 to 1300 feet @ $3.75	4875.00
3. Reaming if necessary	150.00
4. Core and sludge containers	150.00
5. Assaying	900.00
6. Sample Bags	10.00
7. Core splitter - purchase price To be rented of possible	150.00

Excalibur Uranium Corp.
W D Hamilton

1/19/53 file

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

224 New Customhouse
Denver 2, Colorado

January 7, 1953

Memorandum

To: J. H. East, Jr., Regional Director, Region IV

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket DMA 1631X (Uranium), Contract Idm-E236, Excalibur Uranium Corporation, Emery County, Utah - Rental of Bulldozer

Enclosed are copies of the following:

Letter from Excalibur Uranium Corp. dated September 30, 1952, to the Bureau of Mines requesting amendment to Contract Idm-E236

Memorandum from W.E. Young, Bureau of Mines Engineer, dated October 3, 1952, to the Chief, Minerals Development Branch, recommending amendment

Memorandum from the Chief, Minerals Development Branch, dated October 30, 1952, to the Chief, Mining Division, Region IV

Memorandum from the Executive Officer, dated November 17, 1952, to the Administrator, DMEA, which transmitted Amendment No. 3

Memorandum from the Chief Counsel, dated December 9, 1952, to the Administrator, DMEA

Letter from the Acting Chairman of the Operating Committee, dated December 15, 1952, to the Executive Officer, Region IV

Memorandum from the Executive Officer, Region IV, dated December 19, 1952, to the Chairman of the Operating Committee

We believe that the letter from the operator requesting this amendment, and the memorandum from the Bureau of Mines Engineer recommending this amendment, together with the transmittal memorandum transmitting this amendment to the Administrator are self-explanatory. Mention is made that the bulldozer with operator was rented at the rate of $15 per hour and that this rental did not include supplies or repairs to the equipment. This rental is high because of the isolated location and comparative inaccessability of the project.

John F. Shaw

John F. Shaw
For W. H. King

Enclosures

224 New Customhouse
Denver 2, Colorado

December 19, 1952

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket DMA 1631X (Uranium), Contract Idm-E236, Excalibur Uranium Corporation, Emery County, Utah - Rental of Bulldozer

Reference is made to the Acting Chairman's letter of December 15, 1952, to which was attached a copy of a memorandum from the Chief Counsel and the original and five copies of proposed Amendment No. 4, all pertaining to the rental of a bulldozer by the subject company.

We believe there is a misunderstanding concerning the facts in the matter, therefore before executing Amendment No. 4 we present the following information with the request that the matter be reconsidered.

Because of the isolated location and comparative inaccessibility to the project work the operation cannot be compared to projects operating under normal conditions, especially as to the costs involved in the operation.

It is quite common here in the west for owners of bulldozers to rent out their equipment complete with their own operator in order to safeguard their investment in the equipment. Ordinarily the hourly or daily rental rate charged includes operating supplies and repairs. However, in this particular case it would seem to be impractical to establish the rental rate on such an overall cost of operation basis.

Fuel for the operation of project equipment is transported a distance of approximately 40 miles by the distributor's tank truck. At a point some three miles from the project the fuel is transferred to two 1500-gallon storage tanks. Because of the nature of the terrain it is then necessary to transport the fuel to the project in barrel lots by jeep. The latter stage involves crossing the Green River by ferry. All other project supplies are obtained under similar conditions or are flown in by company plane from Grand Junction, Colorado or Moab, Utah, distances of approximately 90 and 25 miles respectively.

Repairs to equipment are accomplished at the project, by project men, with such supplies or replacement parts as are available.

It is apparent that to require the bulldozer owner to provide his own fuel and provide the facilities and equipment to make repairs would be quite impractical under the existing conditions. It is doubtful if a bulldozer could be obtained at any price under the conditions stipulated in Amendment No. 4, unless there was a specific remuneration guaranteed.

The particular bulldozer was originally obtained at Paonia, Colorado, was transported approximately 160 miles by truck and trailer, then walked on its own power six miles over rough terrain, ferried across the Green River, then was used to construct a mile and one-half bulldozer trail to the site of the project work.

From the foregoing it is apparent that the transportation of the bulldozer to and from the project presents difficulties and involves considerable expense which would be difficult to absorb in an hourly rental rate, inasmuch as there is no definite guarantee of a minimum remuneration against which to balance the transportation costs.

Because of the abnormal usage to which the bulldozer is subjected on the project and because of the isolated location of the project, this office recommends that repairs, operating supplies and transportation of the bulldozer to and from the project be considered as an allowable charge to the project in addition to the charge of $15.00 per hour including operator.

Further action in the matter, by this office, will be held in abeyance pending receipt of advice from you.

John F. Shaw
For W. H. King

JWT:jp
cc Contract
Chron
SKWilson
AHKoschmann (2)
JWTownsend

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

700

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

Re: Docket No. DMA-1631X (Uranium)
Contract No. Idm-E236
Excalibur Uranium Corporation
Emery County, Utah

Dear Mr. King:

Reference is made to your memorandum to Mr. Mittendorf, dated November 17, 1952, enclosing the original and two copies of Amendment No. 3 to the above-captioned contract.

Attached is a copy of a memorandum from the Chief Counsel dated December 9, 1952, (that clearly explains the problem) with the original and five copies of Amendment No. 4 to be executed by your office.

If the Amendment is approved and signed by the Operator, please return the usual number of copies to this office for distribution.

Sincerely yours,

Chairman, Operating Committee

Enclosures:
APPROVED:

Member, Bureau of Mines

Member, Geological Survey

Note
All copies of Amendment No 4 forwarded
Retained by W.O.
pending advice from W.O.
on letter to Chm 9 12/19/52

Corr. File

JJ

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

December 9, 1952

Memorandum

To: Administrator

From: Chief Counsel

Subject: The Excalibur Uranium Corporation, Docket No. DMA-1631X, Contract No. Idm-E236 (Uranium)

By memorandum to you dated November 17, Mr. King transmitted Amendment No. 3 to the subject contract, executed by the parties, and in full force and effect. One item of this amendment adds to Exhibit "A", under the title "Operating equipment--To be rented," this item:

1 - Tractor-bulldozer (TD-24 or equivalent) with operator @ $15.00 per hour $15,840.00

In a memorandum to me dated November 24, Mr. Knouse has indicated that in his opinion this item is not stated with sufficient certainty. He also advises me that there is reason to suspect that some of the cost charges on this project are inordinately high, and that the operator may have some interest in the receipts from rentals.

The statement of the rental transaction in the amendment is certainly not very satisfactory. In the first place, it is very seldom that a bulldozer is "rented," in the correct sense of that word with an operator. When equipment is supplied with an operator it is almost invariably an independent-contract transaction, at a unit price for the accomplishment of the work. In this case, the unit price is "$15.00 per hour." Presumably, the unit price not only includes the operator, but also all necessary supplies and repairs; and probably the unit price is intended to apply only for hours of actual operation; although none of these things are stated in the amendment.

The distinction between the "rental" and "independent contracts" is not merely technical but is of real significance. If the Government is renting this bulldozer, it is taking it into its possession, and will be responsible for its damage or destruction. If it is an independent contract, the bulldozer

remains in the possession of the owner, and the Government is not responsible for loss or damage. The amount involved $15,840.00, and the probable value of the bulldozer, makes it advisable to put the transaction in the right category.

Assuming that the real nature of the transaction is an independent contract, I have drafted and attached hereto an Amendment No. 4 for the purpose of restating the transaction. I suggest that it be transmitted to Mr. King with a copy of this memorandum to you, and that Mr. King should indicate to the Operator that the Washington office requires clarification of the matter.

J. L. Hofflund
Chief Counsel

Attachment

224 New Customhouse
Denver 2, Colorado

November 17, 1952

Memorandum

To: C. O. Mittendorf, Administrator, DMEA

From: Executive Officer, DMEA Field Team, Region IV

Subject: Amendment No. 3 to Contract Idm-E236, Docket DMA 1631X, Excalibur Uranium Corporation

Enclosed are the original and two copies of Amendment No. 3 to Contract Idm-E236. Copies of this amendment have been given to the operator, the Fiscal Officer, Region IV, and a copy has been retained for our files.

Also enclosed are three copies of a letter from the operator requesting this amendment and three copies of a memorandum from a Bureau of Mines engineer recommending this amendment.

The rental of bulldozer with operator at $15.00 an hour, as requested by the operator, is $2.50 an hour higher than recommended by the engineer. This matter was discussed with Peter H. Dominick, Secretary of the company, and he stated that they have to pay $15.00 an hour to obtain a suitable bulldozer.

JrS:jp JJS

M. M. King

Enclosures

cc Contract
Chron
AHKoschmann (2)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

1000 EAST FIRST SOUTH STREET
SALT LAKE CITY 1, UTAH

October 30, 1952

Memorandum

To: W. H. King, Acting Chief, Mining Division, Region IV

From: Chief, Utah-Wyoming Branch, Mining Division

Subject: DMEA-1631K, Contract Idm-R236, Excalibur Uranium Corp., Emery County, Utah. Amendment requests submitted by contractor.

Enclosed are the original and 5 copies of a letter received from the subject operator requesting amendments to the present contract. Nine prints of a map illustrating the mining claims involved and the areas of proposed rim stripping are also attached. Six copies of a memorandum prepared by W. E. Young are included.

The amendment requests are as follows:

1. Transfer of Funds

Approval of this request is recommended, but with change in the cost allowances. The amount of $15 per hour for bulldozer and operator is too high. This rate should not be more than $12.50. The rate should also include all supplies to operate the bulldozer and parts for required repairs. The amendment request lists operating fuel and repair parts for the bulldozer as separate cost items. These should be included in the total hourly contract cost.

2. Time Extension

A request to extend the time for project completion to March 31, 1953, is recommended as reasonable and necessary.

3. Request for Retroactive Clause

The operator has requested that any amendments granted be made retroactive to September 1, 1952. A more logical date is July 1, 1952, because of work performed on Aileen No. 8 Claim during July and August 1952.

A. Additional Mining Claims

The owner to the original contract includes the claims Aileen Nos. 1 to 6, inclusive. These claims were recorded in the Emery County Recorder's office May 25, 1951. The company claim map submitted with the NF-104 forms lists Aileen Nos. 7, 8 and 9 claims, but does not include Aileen No. 3. Actually, Aileen Nos. 7, 8 and 9 were amended locations to replace Aileen No. 3. The three claims were recorded after the original details had been assembled for the application. Officials of the company failed to include the proper claims in completing the contract. Recording dates on the three claims, as shown in the attached amendment request, are as follows:

Claim	Date	Book	Page
Aileen No. 7	June 4, 1951	J-9	408
Aileen No. 8	June 4, 1951	J-9	408
Aileen No. 9	June 4, 1951	J-9	409

Correspondence with the Recorder's office at Castle Dale, Utah, indicates that the claims were relocated, for the following information was given:

Claim	Date	Book	Page
Aileen No. 7	August 25, 1952	J-10	324
Aileen No. 8	August 25, 1952	J-10	325
Aileen No. 9	August 25, 1952	J-10	326

The contractor's letter requests all reference to Aileen No. 1 Claim be changed to read Aileen No. 8, and that Aileen No. 3 be deleted, and in lieu thereof, Aileen Nos. 7, 8 and 9 be inserted in the contract. It appears that the above reference to Aileen No. 1 is in error, and it should be Aileen No. 3. It is recommended that the contract be amended to include Aileen Nos. 7, 8 and 9 to replace Aileen No. 3. The attached prints of the claim map illustrate the claim relationships.

Stephen R. Wilson

Enclosures 3

S. R. Wilson Oct. 3, 1952

W. E. Young

DMEA 1631X, Contract Idm-8236, Excalibur Uranium Corp., Emery County, Utah. Request for amendment.

The Excalibur Uranium Corp. requests amendments to their contract as follows:

1. To transfer the remaining funds allotted to drifting to rim stripping.

2. To extend the time limit for completing contract to March 31, 1953.

3. To make amendments retroactive to September 1, 1952.

4. To rectify an error in list of claims in contract to be included.

1. Transfer of Funds

The total contract loan amounts to $59,293. Total expenditures to September 1, 1952, amounted to $29,867.82. It is requested that the remaining $29,425.18 be transferred to do rim stripping in lieu of drifting. Cost estimates for the proposed work are listed as follows:

a. Equipment rental

(1) TD24 bulldozer with operator ———— $15,840.00
This is equivalent to $15 per hr. for dozer and operator, 6 months at 22 days (176 hrs.) per month at $15 per hr. = $15,840.00.

(2) One 105-cfm. compressor ———— $ 196.80
Amounts to $32.80 per month for 6 months.

b. Labor and Supervision ———— $ 8,904.00

Includes:

2 laborers at $16 per day, 176 days
1 superintendent at $450 per month
1 cook at $300 per month

c. Materials and Supplies, Repairs ———— $ 2,634.43
Includes estimated repairs to dozer and compressor; powder and blasting supplies; gas and oil

for compressor; diesel fuel and oil for dozer; and necessary small supplies.

d.	Payroll Taxes and Insurance Covers payroll.	$ 650.00
e.	Assaying	100.00
f.	Engineering service	600.00
g.	Transportation (equipment and materials)	500.00
	Total	$29,425.18

The examining engineer concurs with the request for this amendment, except for costs, which are considered high. Normal rental values on a D8 dozer with operator and all supplies and repairs is $9 to $10 per hour. The TD24 dozer is larger than a D8, but does not justify the rate difference.

2. Time Extension

Request amendment to extend time limit on contract from October 31, 1952, to March 31, 1953.

This request is considered reasonable and necessary.

3. To Make Amendments Retroactive to September 1, 1952

The company has overlooked the fact that work was done during July and August on the Aileen No. 8 claim. In order to make this work valid, the amendment should be made retroactive to July 1, 1952.

4. Amendment of Claim Number

A check by the engineers shows that the ground encumbered is covered by Aileen No. 2, Aileen No. 9, Aileen No. 8, Aileen No. 7, and Aileen No. 6 claims.

Claim	County	Date Entered	Book No.	Page No.
Aileen No. 2	Emery	May 25, 1951	J-9	374
Aileen No. 6	"	May 25, 1951	J-9	376
Aileen No. 7	"	Aug. 25, 1952	J-10	324
Aileen No. 8	"	Aug. 25, 1952	J-10	325
Aileen No. 9	"	Aug. 25, 1952	J-10	326

It is estimated that about 3,000 feet of rim will be stripped with the remaining funds. It should be stipulated that this work is to be done only on the most favorable areas on the Aileen group, Danise group, and Willow group of claims as listed in the contract. Nine copies of a map showing location of this work should be included with amendment request.

W. E. Young

EXCALIBUR URANIUM CORPORATION

GRAND JUNCTION, COLORADO

September 30, 1952

Mr. Stephen R. Wilson, Chief
Utah-Wyoming Branch
Mining Division
1600 East First South Street
Salt Lake City, Utah

Dear Mr. Wilson:

I enclose information relative to a request for an amendment to our Contract Idm-E236, Docket 1631X.

This deals primarily with a request to abandon our drifting operations and transfer such funds as remain in the account to the " Approach to Adit Sites and Rim Stripping" project. Two hundred and eighty-seven feet of drifting has been completed thus far under terms of the contract and no ore of any appreciable amount discovered. It is our opinion that a greater knowledge of the area can be gained from a more extensive rim stripping program than by continueing the drifting operation as it is now developing.

We have estimated the time required to complete the project under the proposed amendment to be approximately six months. The present contract expires October 31, and for that reason an extension of time is requested.

Our attention has been called to the fact that a discrepancy exists between the location of a project authorized on the Aileen No. 1 Claim and subsequent maps showing the work being performed on Aileen No. 8. Considerable investigation indicates the details of the contract as approved to be in error. A transit survey of this group of claims has been made of recent date. In discussing the problem with the engineering department, they advise me that the claims remain in their respective locations. The only logical explanation for this error is laxity on our part in ascertaining at the time the contract was written the correct claim on which the work was to be done.

Mr. Stephen R. Wilson:

We sincerely hope this affords an explanation of our request and that the proposed amendment will receive favorable action.

Yours truly,

W. D. Hamilton

cc- Peter H. Dominick

PROPOSED AMENDMENT

The Excalibur Uranium Corporation requests an amendment to DMEA Docket 1631X, Contract No. Idm-E236.

Previously accomplished work consists of three miles of road building @ $15,000.00; 287 feet of drifting @ $10,325.01; and plane and truck service @ $2,486.25. The total loan amounted to $59,293.00. Money expended to date amounts to $29,867.82. The amount remaining equals $29,425.18. It is requested that an amendment be granted to transfer this remaining amount to the project of rim stripping and approaches to adit sites. Claims involved will be those listed in the contract as amended by this proposal.

1. Cost detail

a. Equipment Rental	
1. TD24(or equivalent)with operator	$15,840.00
2. One 105 compressor	196.80
b. Labor and supervision	8,904.00
c. Materials and supplies, repairs	2,634.38
d. Payroll taxes and insurance	650.00
e. Assaying	100.00
f. Engineering service	600.00
g. Transportation (equipment & materials)	500.00
TOTAL	$29,425.18

2. Time schedule - It is requested the contract be amended to have as a completion date - March 31,1953

3. Retroactive - It is requested that this amendment be retroactive to September 1, 1952.

4. Claim Numbers - It is requested that all reference to Aileen Claim No. 1, be changed to read Aileen No. 8. Delete Aileen Claim No. 3 and insert in lieu thereof the following:

Claim	County	State	Filed	Book	Page
Aileen No.7	Emery	Utah	June 4/51	J-9	408
Aileen No.8	Emery	Utah	June 4/51	J-9	408
Aileen No.9	Emery	Utah	June 4/51	J-9	409

12/30/52 gla

Col 12.29

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

224 New Customhouse
Denver 2, Colorado

December 19, 1952

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket DMA 1631X (Uranium), Contract Idm-E236, Excalibur Uranium Corporation, Emery County, Utah - Rental of Bulldozer

Reference is made to the Acting Chairman's letter of December 15, 1952, to which was attached a copy of a memorandum from the Chief Counsel and the original and five copies of proposed Amendment No. 4, all pertaining to the rental of a bulldozer by the subject company.

We believe there is a misunderstanding concerning the facts in the matter, therefore before executing Amendment No. 4 we present the following information with the request that the matter be reconsidered.

Because of the isolated location and comparative inaccessibility to the project work the operation cannot be compared to projects operating under normal conditions, especially as to the costs involved in the operation.

It is quite common here in the west for owners of bulldozers to rent out their equipment complete with their own operator in order to safeguard their investment in the equipment. Ordinarily the hourly or daily rental rate charged includes operating supplies and repairs. However, in this particular case it would seem to be impractical to establish the rental rate on such an overall cost of operation basis.

Fuel for the operation of project equipment is transported a distance of approximately 40 miles by the distributor's tank truck. At a point some three miles from the project the fuel is transferred to two 1500-gallon storage tanks. Because of the nature of the terrain it is then necessary to transport the fuel to the project in barrel lots by jeep. The latter stage involves crossing the Green River by ferry. All other project supplies are obtained under similar conditions or are flown in by company plane from Grand Junction, Colorado or Moab, Utah, distances of approximately 90 and 25 miles respectively.

Repairs to equipment are accomplished at the project, by project men, with such supplies or replacement parts as are available.

It is apparent that to require the bulldozer owner to provide his own fuel and provide the facilities and equipment to make repairs would be quite impractical under the existing conditions. It is doubtful if a bulldozer could be obtained at any price under the conditions stipulated in Amendment No. 4, unless there was a specific remuneration guaranteed.

The particular bulldozer was originally obtained at Paonia, Colorado, was transported approximately 160 miles by truck and trailer, then walked on its own power six miles over rough terrain, ferried across the Green River, then was used to construct a mile and one-half bulldozer trail to the site of the project work.

From the foregoing it is apparent that the transportation of the bulldozer to and from the project presents difficulties and involves considerable expense which would be difficult to absorb in an hourly rental rate, inasmuch as there is no definite guarantee of a minimum remuneration against which to balance the transportation costs.

Because of the abnormal usage to which the bulldozer is subjected on the project and because of the isolated location of the project, this office recommends that repairs, operating supplies and transportation of the bulldozer to and from the project be considered as an allowable charge to the project in addition to the charge of $15.00 per hour including operator.

Further action in the matter, by this office, will be held in abeyance pending receipt of advice from you.

John F. Shaw
John F. Shaw
For W. H. King

1-12-52

Discussed matter with contractor advised A.E.C. Grand Junction Office recommended total cost/hr. of $15.00 include repairs, operator supplies, and all costs, with an exception of allowing transportation cost of tractor to and from site.

J.F.S.

FILE COPY
SURNAME:

140

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

Bev.

DEC 18 1952

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

Re: Excalibur Uranium Corporation
Docket No. DMEA-1631 (Uranium)
Contract No. Idm-E236

Dear Mr. King:

Receipt is acknowledged of your memorandum to the Administrator dated December 5, 1952, regarding the subject contract. You state that the Operator on June 24, 1952, made a first shipment of ore, which was mined prior to the date of the contract, over the road whose building was financed in part by DMEA funds; and that two other shipments of ore mined from the area of drifting, after underground work had begun, were likewise so shipped. You believe that the ore should be subject to royalty payments and ask the procedure to obtain them.

The Government is not entitled to royalty payments on the first shipment since it was mined before the Exploration Project Contract was executed and is not subject to its terms. However, since I am informed that a Certificate of Discovery is to be issued in this case, the Government is entitled to royalty payments on the last two shipments because the ore came from the area where the contract work was being performed.

As I informed you in my letter of November 17, 1952, in the case of Lead Carbonate Mines, Inc., Docket No. DMA-434, royalty payments need not be made by an Operator until a Certificate of Discovery or Development has been issued. Nevertheless, the operator should be requested to keep a record of ore shipped so that at the proper time a computation may be made of the royalty payments due the Government.

Sincerely yours,

(signed) FRANK E. JOHNSON

Chairman, Operating Committee

Approved:

J. H. Hedges

Member, Bureau of Mines

A. R. Kinkel, Jr.

Member, Geological Survey

Chron.
Pending
Mr. Thayer
Mr. Hedges
J. L. Hofflund
A. E. Kane

ema/12-16-52
Mails & Files
Adm. R. File
Op. Comm.
E. W. Ellis

12-18-52

DEC 15 1952

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Ernest Wm. Ellis

ACTING [illegible]

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cc to: [illegible] Filing File

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[illegible] or. Com.

[illegible] Field [illegible], [illegible]

[illegible]

J. H. Hedges

[illegible] ember, [illegible] of [illegible]

A. R. Kinkel, Jr.

[illegible] ember, [illegible] Army

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

140

NSIN R+R

December 9, 1952

Memorandum

To: Administrator

From: Chief Counsel

Subject: The Excalibur Uranium Corporation, Docket No. DMA-1631X, Contract No. Idm-E236 (Uranium)

By memorandum to you dated November 17, Mr. King transmitted Amendment No. 3 to the subject contract, executed by the parties, and in full force and effect. One item of this amendment adds to Exhibit "A", under the title "Operating equipment--To be rented," this item:

1 - Tractor-bulldozer (TD-24 or equivalent) with operator @ $15.00 per hour $15,840.00

In a memorandum to me dated November 24, Mr. Knouse has indicated that in his opinion this item is not stated with sufficient certainty. He also advises me that there is reason to suspect that some of the cost charges on this project are inordinately high, and that the operator may have some interest in the receipts from rentals.

The statement of the rental transaction in the amendment is certainly not very satisfactory. In the first place, it is very seldom that a bulldozer is "rented," in the correct sense of that word with an operator. When equipment is supplied with an operator it is almost invariably an independent-contract transaction, at a unit price for the accomplishment of the work. In this case, the unit price is "$15.00 per hour." Presumably, the unit price not only includes the operator, but also all necessary supplies and repairs; and probably the unit price is intended to apply only for hours of actual operation; although none of these things are stated in the amendment.

The distinction between the "rental" and "independent contracts" is not merely technical but is of real significance. If the Government is renting this bulldozer, it is taking it into its possession, and will be responsible for its damage or destruction. If it is an independent contract, the bulldozer

E. H. Ellis

remains in the possession of the owner, and the Government is not responsible for loss or damage. The amount involved, $15,840.00, and the probable value of the bulldozer, makes it advisable to put the transaction in the right category.

Assuming that the real nature of the transaction is an independent contract, I have drafted and attached hereto an Amendment No. 4 for the purpose of restating the transaction. I suggest that it be transmitted to Mr. King with a copy of this memorandum to you, and that Mr. King should indicate to the Operator that the Washington office requires clarification of the matter.

J. L. Hofflund

J. L. Hofflund
Chief Counsel

Attachment

JLHofflund/mef/
cc to: Mails and Files
Adm. Reading File
Mr. Hofflund
Mr. Ellis
Mr. Kane
Chron.

12/10/52 gla

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

224 New Customhouse
Denver 2, Colorado

December 5, 1952

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 8 1952

Memorandum

To: C. O. Mittendorf, Administrator
Defense Minerals Exploration Administration

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket No. DMEA 1631X, (Uranium), Contract Idm-E236, Excalibur Uranium Corporation, Emery County, Utah - Royalty Payments

The subject contractor has made three ore shipments from mining claims included under the DMEA contract. Pertinent statistical data are shown on the attached sheet, submitted by Wilbur Hamilton of the Excalibur Uranium Corp. Apparently the company does not completely understand the obligation for royalty payment to the Government, under terms of the contract.

It is believed the initial shipment made June 24, 1952, was ore mined previous to the effective date of the contract, which is January 24, 1952. However, this ore was transported over the road, in part financed by DMEA funds. Shipments made July 31, 1952, and September 26, 1952, undoubtedly were mined after underground work was begun under terms of the contract.

This ore was mined from the area of drifting under the contract and should be subject to royalty payments.

Please advise the proper procedure in obtaining the royalty payments under the existing conditions.

W. H. King
W. H. King

Enclosure

DATE 1952	MILL	DRY WEIGHT	ASSAYS U_3O_8	ASSAYS V_2O_5	ASSAYS C_aCO_3	BASE U_3O_8	PREMIUM	BASE V_2O_5	MILL CHG.	DEVELOP. ALLOW.	HAUL. ALLOW.	LIME PENALTY	NET RECEIVED
6/24	Climax Gr. Jct.	9,613	1.34	.67	-	450.84	102.36	19.97	-	64.41	58.32	-	695.90
7/31	Vitro Chem. SLC	18,428	1.01	.14	12.32	651.43	135.45	8.00	49.93	93.06	56.10	17.47	876.64
9/26	AS&R Monticello	89,655	.35	.11	15.4	1098.27	84.59	-	-	156.89	246.29	177.42	1408.62

EXCALIBUR URANIUM CORPORATION
PRODUCTION SALES
BOW KNOT MINING PROPERTIES
TO DECEMBER 1, 1952

COPY

November 25, 1952

Memorandum

To: Mrs. Hazel Berry, Secretary to the Operating Committee

From: Anne M. Alley, Contract Administration and Audit Division

Subject: Contracts Originating in Region IV and Contract Amendments

* * * * * *

There is returned Amendment No. 3 to Idm-E236, DMA-1631X, The Excalibur Uranium Corporation on which this Division raises a question as to the amount paid for "1 - Trantor-bulldozer (TD-24 or equivalent) with operator @ $15.00 per hour - $15,840.00". Since both the Chief, Utah-Wyoming Branch, Mining Division, and Mr. W. E. Young, Engineer, Region IV, recommend no more than $12.50 per hour this Division is wondering if there is a further justification by Mr. King for the rate of $15.00 per hour.

/s/ Anne M. Alley

700

FILE COPY
SURNAME:

F L Knouse

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

November 24, 1952

Memorandum

To: Legal Division

From: F. L. Knouse, Rare and Misc. Metals Division

Subject: Docket No. DMA-1631X (Uranium)
Amendment No. 3 to Contract No. Idm-E236
Excalibur Uranium Corporation

Reference is made to page 2 of this amendment:

"To be rented", add the following:

1 - Tractor-bulldozer (TD-24 or equivalent) with operator @ $15.00 per hour $15,840.00

It is recommended that this part of the amendment be written as follows:

"To be rented", add the following:

1 - International Harvester Tractor with dozer (or an equivalent size unit) including operator, repairs, supplies, and all costs @ $15.00/hr. for actual operating time $15,840.00

F. L. Knouse

FLKnouse/gla
cc to: Operating Committee (Hazel Berry)
Docket
Legal (2)
Mr. Knouse

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

224 New Customhouse
Denver 2, Colorado

November 17, 1952

Memorandum

To: C. O. Mittendorf, Administrator, DMEA

From: Executive Officer, DMEA Field Team, Region IV

Subject: Amendment No. 3 to Contract Idm-E236, Docket DMA 1631X, Excalibur Uranium Corporation

Enclosed are the original and two copies of Amendment No. 3 to Contract Idm-E236. Copies of this amendment have been given to the operator, the Fiscal Officer, Region IV, and a copy has been retained for our files.

Also enclosed are three copies of a letter from the operator requesting this amendment and three copies of a memorandum from a Bureau of Mines engineer recommending this amendment.

The rental of bulldozer with operator at $15.00 an hour, as requested by the operator, is $2.50 an hour higher than recommended by the engineer. This matter was discussed with Peter H. Dominick, Secretary of the company, and he stated that they have to pay $15.00 an hour to obtain a suitable bulldozer.

W. H. King

W. H. King

Enclosures

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
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DEC 1 - 1952
GENERAL COUNSEL
DEFENSE MINERALS
ADMINISTRATION

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11-21

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
1600 EAST FIRST SOUTH STREET
SALT LAKE CITY 1, UTAH

October 30, 1952

Memorandum

To: W. H. King, Acting Chief, Mining Division, Region IV

From: Chief, Utah-Wyoming Branch, Mining Division

Subject: DMRA-1631K, Contract Idm-E236, Excalibur Uranium Corp., Emery County, Utah. Amendment requests submitted by contractor.

Enclosed are the original and 5 copies of a letter received from the subject operator requesting amendments to the present contract. Nine prints of a map illustrating the mining claims involved and the areas of proposed rim stripping are also attached. Six copies of a memorandum prepared by W. E. Young are included.

The amendment requests are as follows:

1. Transfer of Funds

Approval of this request is recommended, but with change in the cost allowances. The amount of $15 per hour for bulldozer and operator is too high. This rate should not be more than $12.50. The rate should also include all supplies to operate the bulldozer and parts for required repairs. The amendment request lists operating fuel and repair parts for the bulldozer as separate cost items. These should be included in the total hourly contract cost.

2. Time Extension

A request to extend the time for project completion to March 31, 1953, is recommended as reasonable and necessary.

3. Request for Retroactive Clause

The operator has requested that any amendments granted be made retroactive to September 1, 1952. A more logical date is July 1, 1952, because of work performed on Aileen No. 8 Claim during July and August 1952.

4. Additional Mining Claims

The annex to the original contract includes the claims Aileen Nos. 1 to 6, inclusive. These claims were recorded in the Emery County Recorder's office May 25, 1951. The company claim map submitted with the MF-104 forms lists Aileen Nos. 7, 8 and 9 claims, but does not include Aileen No. 3. Actually, Aileen Nos. 7, 8 and 9 were amended locations to replace Aileen No. 3. The three claims were recorded after the original details had been assembled for the application. Officials of the company failed to include the proper claims in completing the contract. Recording dates on the three claims, as shown in the attached amendment request, are as follows:

Claim	Date	Book	Page
Aileen No. 7	June 4, 1951	J-9	408
Aileen No. 8	June 4, 1951	J-9	408
Aileen No. 9	June 4, 1951	J-9	409

Correspondence with the Recorder's office at Castle Dale, Utah, indicates that the claims were relocated, for the following information was given:

Claim	Date	Book	Page
Aileen No. 7	August 25, 1952	J-10	324
Aileen No. 8	August 25, 1952	J-10	325
Aileen No. 9	August 25, 1952	J-10	326

The contractor's letter requests all reference to Aileen No. 1 Claim be changed to read Aileen No. 8, and that Aileen No. 3 be deleted, and in lieu thereof, Aileen Nos. 7, 8 and 9 be inserted in the contract. It appears that the above reference to Aileen No. 1 is in error, and it should be Aileen No. 3. It is recommended that the contract be amended to include Aileen Nos. 7, 8 and 9 to replace Aileen No. 3. The attached prints of the claim map illustrate the claim relationships.

Stephen R. Wilson

Stephen R. Wilson

Enclosures 3

S. R. Wilson Oct. 3, 1952

W. E. Young

DMEA 1631X, Contract Idm-E236, Excalibur Uranium Corp., Emery County, Utah. Request for amendment.

The Excalibur Uranium Corp. requests amendments to their contract as follows:

1. To transfer the remaining funds allotted to drifting to rim stripping.

2. To extend the time limit for completing contract to March 31, 1953.

3. To make amendments retroactive to September 1, 1952.

4. To rectify an error in list of claims in contract to be included.

1. Transfer of Funds

The total contract loan amounts to $59,293. Total expenditures to September 1, 1952, amounted to $29,867.82. It is requested that the remaining $29,425.18 be transferred to do rim stripping in lieu of drifting. Cost estimates for the proposed work are listed as follows:

a. Equipment rental

(1) TD24 bulldozer with operator ———————— $15,840.00
This is equivalent to $15 per hr. for dozer and operator, 6 months at 22 days (176 hrs.) per month at $15 per hr. = $15,840.00.

(2) One 105-cfm. compressor ———————— $ 196.80
Amounts to $32.80 per month for 6 months.

b. Labor and Supervision ———————— $ 8,904.00

Includes:

2 laborers at $16 per day, 176 days
1 superintendent at $450 per month
1 cook at $300 per month

c. Materials and Supplies, Repairs ———————— $ 2,634.43
Includes estimated repairs to dozer and compressor; powder and blasting supplies; gas and oil

for compressor; diesel fuel and oil for dozer; and necessary small supplies.

d. Payroll Taxes and Insurance ——— $ 650.00
Covers payroll.

e. Assaying ——— 100.00

f. Engineering service ——— 600.00

g. Transportation (equipment and materials) ——— 500.00

Total ——— $29,425.18

The examining engineer concurs with the request for this amendment, except for costs, which are considered high. Normal rental values on a D8 dozer with operator and all supplies and repairs is $9 to $10 per hour. The TD24 dozer is larger than a D8, but does not justify the rate difference.

2. Time Extension

Request amendment to extend time limit on contract from October 31, 1952, to March 31, 1953.

This request is considered reasonable and necessary.

3. To Make Amendments Retroactive to September 1, 1952

The company has overlooked the fact that work was done during July and August on the Aileen No. 8 claim. In order to make this work valid, the amendment should be made retroactive to July 1, 1952.

4. Amendment of Claim Number

A check by the engineers shows that the ground encumbered is covered by Aileen No. 2, Aileen No. 9, Aileen No. 8, Aileen No. 7, and Aileen No. 6 claims.

Claim	County	Date Entered	Book No.	Page No.
Aileen No. 2	Emery	May 25, 1951	J-9	374
Aileen No. 6	"	May 25, 1951	J-9	376
Aileen No. 7	"	Aug. 25, 1952	J-10	324
Aileen No. 8	"	Aug. 25, 1952	J-10	325
Aileen No. 9	"	Aug. 25, 1952	J-10	326

It is estimated that about 3,000 feet of rim will be stripped with the remaining funds. It should be stipulated that this work is to be done only on the most favorable areas on the Aileen group, Danise group, and Willow group of claims as listed in the contract. Nine copies of a map showing location of this work should be included with amendment request.

W. E. Young

W. E. Young

C O P Y

EXCALIBUR URANIUM CORPORATION
27 U. S. Bank Building
Grand Junction, Colorado

September 30, 1952

Mr. Stephen R. Wilson, Chief
Utah-Wyoming Branch
Mining Division
1600 East First South Street
Salt Lake City, Utah

Dear Mr. Wilson:

I enclose information relative to a request for an amendment to our contract Idm-E236, Docket 1631X.

This deals primarily with a request to abandon our drifting operations and transfer such funds as remain in the account to the "Approach to Adit Sites and Rim Stripping" projects. Two hundred and eighty-seven feet of drifting has been completed thus far under terms of the contract and no ore of any appreciable amount discovered. It is our opinion that a greater knowledge of the area can be gained from a more extensive rim stripping program than by continuing the drifting operation as it is now developing.

We have estimated the time required to complete the project under the proposed amendment to be approximately six months. The present contract expires October 31, and for that reason an extension of time is requested.

Our attention has been called to the fact that a discrepancy exists between the location of a project authorized on the Aileen No. 1 Claim and subsequent maps showing the work being performed on Aileen No. 8. Considerable investigation indicates the details of the contract as approved to be in error. A transit survey of this group of claims has been made of recent date. In discussing the problem with the engineering department, they advise me that the claims remain in their respective locations. The only logical explanation for this error is laxity on our part in ascertaining at the time the contract was written the correct claim on which the work was to be done.

We sincerely hope this affords an explanation of our request and that the proposed amendment will receive favorable action.

Yours truly,

/S/ W. D. Hamilton

cc: Peter H. Dominick

copy

PROPOSED AMENDMENT

The Excalibur Uranium Corporation requests an amendment to DMEA Docket 1631X, Contract No. Idm-E236.

Previously accomplished work consists of three miles of road building at $15,000.00; 287 feet of drifting at $10,325.01; and plane and truck service at $2,486.25. The total loan amounted to $59,293.00. Money expended to date amounts to $29,867.82. The amount remaining equals $29,425.18. It is requested that an amendment be granted to transfer this remaining amount to the project of rim stripping and approaches to adit sites. Claims involved will be those listed in the contract as amended by this proposal.

1. Cost detail

a. Equipment Rental	
1. TD24 (or equivalent) with operator	$15,840.00
2 One 105 compressor	196.80
b. Labor and supervision	$ 8,904.00
c. Materials and supplies, repairs	2,634.38
d. Payroll taxes and insurance	650.00
e. Assaying	100.00
f. Engineering service	600.00
g. Transportation (equipment & materials)	500.00
TOTAL	$29,425.18

2. Time schedule - It is requested the contract be amended to have as a completion date - March 31, 1953.

3. Retroactive - It is requested that this amendment be retroactive to September 1, 1952.

4. Claim Numbers - It is requested that all reference to Aileen Claim No. 1, be changed to read Aileen No. 8.
   - Delete Aileen Claim No. 3 and insert in lieu thereof the following:

Claim	County	State	Filed	Book	Page
Aileen No. 7	Emery	Utah	June 4/51	J-9	408
Aileen No. 8	Emery	Utah	June 4/51	J-9	408
Aileen No. 9	Emery	Utah	June 4/51	J-9	409

FILE COPY
SURNAME:

Talbert
Chambers

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

Peat, Marwick, Mitchell & Co.
Certified Public Accountants
United States National Bank Bldg.
Denver 2, Colorado

JUL 18 1952

Gentlemen: Attention: Robert A. Knecht, Manager

Reference is made to your letter of July 12, 1952, requesting a confirmation of the indebtedness, amounting to $4,980.68 as of April 30, 1952, of the Excalibur Uranium Corporation under Exploration Project Contract Idm-E236, Docket No. DMA-1631X.

This is to confirm that the Government's contribution to the costs of exploration work under this contract amounted to $4,980.68 as of April 30, 1952. However, this amount represents only a contingent liability on the part of the Corporation in accordance with Article 15 of the contract which states, in part:

> "If, upon the completion of the exploration project or termination of the contract, the Government considers that a discovery or development has resulted from the work from which commercial production of ore may be made, the Government, within 6 months thereafter, shall so certify to the Operator, particularly describing and delimiting its estimate of the discovery or the development. Thereafter, if and as ore is produced as a result of such discovery or development, the Operator and his successor in interest shall be and become obligated to pay to the Government a percentage royalty on the net smelter returns or other net proceeds realized from such ore, concentrates, or metal produced within ten (10) years from the date of this contract, until the total amount contributed by the Government, without interest, is fully repaid or said 10 years have elapsed, whichever occurs first, * * * "

Sincerely yours,

7/18/52

SIGNED

Jay L. Chambers, Chief
Contract Administration and
Audit Division

EDTalbert/ama
July 18, 1952
Copy to: Admr. Reading File
Mails and Files
Mr. Chambers

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

224 New Customhouse
Denver 2, Colorado

July 2, 1952

RECEIVED
JUL 14 1952
GENERAL COUNSEL
DEFENSE MINERALS
ADMINISTRATION

Memorandum

To: C. O. Mittendorf, Acting Administrator
Defense Minerals Exploration Administrat

From: Executive Officer, Field Team, Region IV

Subject: Amendment No. 2, Contract Idm-E236, Excalibur Uranium Corporation, Docket DMA 1631X.

Enclosed are the original and two signed copies of Amendment No. 2 to Contract Idm-E236. Copies of this amendment have been given to the Operator, the Fiscal Officer, Region IV, and a copy has been retained for our files.

W. H. King
W. H. King

Enclosures

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 7 1952

SJS
7-7-52

6/20/52 gla

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

JUN 20 1952

224 New Customhouse
Denver 2, Colorado

Air Mail

June 18, 1952

Memorandum

To: Secretary to the Operating Committee, Defense Minerals Exploration Administration

From: Executive Officer, DMEA Field Team, Region IV

Subject: DMA Docket No. 1631X (Uranium) Contract No. Idm-E236, Excalibur Uranium Corporation, Grand County, Utah - Progress Reports through March, 1952

Reference is made to the letter from Frank E. Johnson dated June 16, 1952, requesting clarification of charges for supervisor, engineering and pilot as reported on work under the captioned docket.

We are at a loss to understand the basis for your analysis of the charges mentioned.

Our analysis of the charges on the MF-104 Reports for the months of February and March, 1952, on the basis of payrolls attached thereto, is as follows.

Period	Labor	Pilot	Supervision & Office	Total
Feb. 1-15	$1331.50	$40.50	$287.50	$1659.50
" 16-29	1299.71	10.50	287.50	1597.71
	$2631.21	$51.00	$575.00	$3257.21
Mar. 1-15	$1392.18	$18.75	$287.50	$1698.43
" 16-31	1725.70	- -	287.50	2013.20
	$3117.88	$18.75	$575.00	$3711.63

The above charges are in conformance with the contract and are not considered excessive for the amount of work performed. You will note that there has been no charge to the project for Engineering, and that the total charge for the pilot only amounted to $68.75 for the two months. The pilot charge was included under "Labor" on the MF-104 Reports.

W. H. King

W. H. King

700

FILE COPY
SURNAME:

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

AIR MAIL

JUN 16 1952

F.L. Knouse
File
Mail

Mr. R. F. King
Executive Officer
DMEA Field Team, Region IV
224 New Customhouse Building
Denver 2, Colorado

Re: Docket No. DMA-1631X (Uranium)
Contract No. Idm-E236
Excalibur Uranium Corporation
Grand County, Utah
Progress Report - March, 1952

Dear Mr. King:

We wish to draw your attention to various items in the captioned docket progress report. The description of the work through March, 1952, indicates only road construction has been done on this project. However, three engineers were listed on the payroll at a total of $1031.00, one supervisor at $579.00, and one airplane pilot for one month at $600.00. Only $1200.00 was allowed for engineering services in the contract, and it appears the chief engineering needs will be for the exploration work yet to be done.

We realize there is doubtless an explanation why all of these men are required to construct an approach road. However, we will appreciate a clarification of these items.

Sincerely yours,

(signed) FRANK E. JOHNSON

(HB)

Chairman, Operating Committee

P.N. 6-16-52

APPROVED:

Charles N. Merrell
Member, Bureau of Mines (HB)

D. M. Lemmon
Member, Geological Survey (HB)

FLKnouse/gla 6-13-52

cc to: Adm. Reading File
Operating Committee
Docket
Messrs. A.J.Kauffman, Jr. Rm. 1347
A.P.Butler, Jr., Rm. 3206 GSA
Ellis
Knouse
Chambers, Rm. 2612

March 19, 1952

MEMORANDUM

To: E. W. Ellis

From: F. L. Knouse F.L.K.

Subject: Docket No. DMA-1631K, (Uranium)
Excalibur Uranium Corporation
Bow Knot Green River
Emery County, Utah
Amendment to Contract

Comparative Estimate
Labor & Supervision Cost- Contract and Amendment.

	In Contract			In Amendment		
	Time	Rate	Amount	Time	Rate	Amount
Miners	320 days	$18.00	$5,760.	320 days	$18.00	$5,760.
Muckers	480 "	15.00	7,200.	480 "	(16.00	(7,680.
Laborers	---	---	---		(16.00	(
Dozer Operator	37.5 "	20.00	750.		(18.00	(
Loader Operator	---	---	---	375 "	(18.00	(675.
Motor Patrol Operator	---	---	---		(18.00	(
Truck Driver	18.75 "	16.00	300.	18.75 "	15.75	295.38
Cook	3 mos.	300/mo.	900.	3 mos.	300/mo.	900.
Road Supt.	---	---	---	3 mos.	500/mo.	1,500.
Supervision	3 mos.	600/mo.	1,800.	---	---	---
Mine Supt.	3 mos.	500/mo.	1,500.	3 mos.	500/mo.	1,500.
Foreman	---	---	---	3 mos.	400/mo.	1,200.
Consulting Engr.	15 days	80/day	1,200.	---	---	---
Bookkeeper	---	---	---	* 3 mos.	75/mo.	225.
Plane Pilot	225 hrs.	4.00 hr.	900.	225 hrs.	4.00/hr.	900.
Mechanic	---	---	---	* 100 hrs.	3.50/hr.	350.
Welder & Equipment	---	---	---	* 100 hrs.	5.00/hr.	500.
Total			$20,310.00			$21,485.00

* Estimated time-rate appears high for mechanic and welder but as they are on a part time basis from the other operators these rates should be justified. Other labor rates may appear high but because of environmental conditions and limited facilities, living conditions are poor therefore wage rates should be somewhat higher.

Note: The estimate made above "IN Amendment" is greater by $1,175.00 than the amount allowed, in the contract, however no period of time is indicated in the amendment for the workmen and both the contract and the amendment limits the amount to be disbursed for this contract.

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

224 New Customhouse
Denver 2, Colorado

March 11, 1952

Memorandum

To: C. O. Mittendorf, Acting Administrator
Defense Minerals Exploration Administration

From: Executive Officer, Field Team, Region IV

Subject: Amendment to Contract Idm-E236, Docket DMA 1631X, Excalibur Uranium Corporation

Enclosed are the original and two copies of an amendment to the above contract.

Copies of this amendment have been given to the operator, the Fiscal Officer, Region IV, and a copy has been retained for our files.

J. H. East, Jr.

Enclosures

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 14 1952

BX

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

Omea Docket Copy

OL

224 New Customhouse
Denver 2, Colorado

February 4, 1952

REGISTERED MAIL

Memorandum

To: Secretary to the Operating Committee, Defense Minerals Exploration Administration

From: Executive Officer, Field Team, Region IV

Subject: Contract Idm-E236, Docket DMA 1631X, The Excalibur Uranium Corporation, Inc.

Enclosed are the original and three signed copies of the above contract.

A copy of the contract has been given to the operator and we have retained a copy for our files.

J. H. East, Jr.

J. H. East, Jr.

Enclosures

JFS:ld

cc: Docket, contract, chron.
Koschmann

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 7 1952

FILE COPY
SURNAME:

Rewrite
Note
attached
Surname

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

700

AIR MAIL

JAN 24 1952

Mr. J. H. East, Jr.
Executive Officer, Region IV
DMEA Field Team
224 New Customhouse Building
Denver 2, Colorado

Re: Docket No. DMA-1631X (Uranium)
The Excalibur Uranium Corporation
Verbeck Building
Grand Junction, Colorado

Dear Mr. East:

Enclosed are six copies of a proposed contract on the above captioned project.

Also enclosed is a copy of a memorandum from the Legal Division. Item 3 is not applicable since the dual supervision is only part of the contract time. As to items 1 and 2 it is suggested you consider these two points. You may deem it advisable to recommend changes in the road part of the contract. However, if you are in agreement with the contract as drawn up, then have the six copies signed by an authorized officer of the Applicant corporation and return them* to Washington.

Sincerely yours,

SIGNED 1/24/52

Chairman, Operating Committee
Defense Minerals Exploration
Administration

Enclosures 7

APPROVED:

For Bureau of Mines

For Geological Survey

EWEllis/jem/hb (1/22/52)
Copy to: Adm. Reading File
Mails & Files Branch
Docket
Messrs. Kauffman, Rm. 1347
Butler, Rm. 3212, GS
Ellis, Rm. 4640
Field Team, Region IV

* Four copiesonly (Original and 3 copi
giving one to the Operator and reta
one for your file.

700
FILE COPY
SURNAME:

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

AIR MAIL

JAN 2 - 1952

Mr. J. H. East, Jr.
Executive Officer, Region IV
DMEA Field Team
224 New Customhouse Building
Denver 2, Colorado

Re: Docket No. DMA-1631X (Uranium)
The Excalibur Uranium Corporation
Vorbeck Building
Grand Junction, Colorado

Dear Mr. East:

Enclosed are six copies of a proposed contract on the above captioned project.

Also enclosed is a copy of a memorandum from the Legal Division. Item 3 is not applicable since the dual supervision is only part of the contract time. As to items 1 and 2 it is suggested you consider these two points. You may deem it advisable to recommend changes in the road part of the contract. However if you are in agreement with the contract as drawn up, then have the six copies signed by an authorized member of the Applicant and return them to Washington for the Administrator's signature.

The date and Idm-L number will be added at the time the contract is executed by the Government.

Sincerely yours,

1-22-52

(Signed) FRANK E. JOHNSON
NB

Chairman, Operating Committee
Defense Minerals Exploration
Administration

Inclosures - 7

EWEllis/jem 1-10-52
cc to: Adm. Reading File
Mails & Files Br.
Docket
Messrs. Kauffman, A. J. Rm. 1347
Butler, A.P. Rm. 3212 G.S.
Ellis
Field Team, Region IV

APPROVED:

/s/ J. H. Hedges
Member, Bureau of Mines
NB

/s/ L. P. Thayer
Member, Geological Survey
NB

1/28/52 rgla

JOSIAH G. HOLLAND
STEPHEN H. HART
JOHN L. J. HART
PETER H. DOMINICK
WILLIAM D. EMBREE, JR.
PATRICK M. WESTFELDT
CLAUDE M. MAER, JR.
ROBERT P. DAVISON
JOHN FLEMING KELLY
DONALD W. ROE
FRANK H. MORISON
RAYMOND COBB JOHNSON
THOMAS J. CASEY

LAW OFFICES
HOLLAND & HART
EQUITABLE BUILDING
DENVER 2, COLORADO

January 24, 1952

The Defense Minerals Exploration Administration
Department of the Interior
Washington 5, D. C.

Re: Excalibur Uranium Corporation

Docket No. 1631

Gentlemen:

In accordance with your inquiry by telephone of January 24, 1952, this will certify that the claims in the Bowknot District on the Green River, Grand County, Utah, as to which we have applied for an exploration loan were relocated and re-filed with the Clerk and Recorder of Grand County, Utah on November 13, 1951.

Sincerely yours,

EXCALIBUR URANIUM CORPORATION

By: Peter H. Dominick
Secretary

PHD
mjb

cc: Mr. Hamilton

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 28 1952

FILE COPY
SURNAME:

Ellis
Mittendorf

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

not stripped in R v R.

January 21, 1952

C. O. Mittendorf, Acting Administrator
Defense Minerals Exploration
Administration

1420137 Salaries & Expenses,

Defense Production Activities, Interior, 1952

EXCALIBUR URANIUM CORP.
VORHECK BLDG.
GRAND JUNCTION, COLORADO

RE DOCKET DMA-1631X COMPLETED CONTRACT WILL BE MAILED DM A EXECUTIVE

OFFICER, DENVER, THIS WEEK FOR YOUR SIGNATURE.

C. O. Mittendorf (fw)

C. O. MITTENDORF, ACTING ADMINISTRATOR
DEFENSE MINERALS EXPLORATION
ADMINISTRATION

EWEllis/jem
cc to: Adm. Reading File
Docket
Mr. Ellis

BE

January 17, 1952

To: Miss Berry

From: Grace Ault, Rare and Misc. Metals Division

Subject: Excalibur Uranium Corp. (Uranium)
DMA-1631

Since Mr. Ellis wrote the transmittal letter of January 10 forwarding this contract to the Field, it has been delayed in circulation, and finally returned to him today because of a typographical error in Exhibit A. The correction has now been made in all copies of the contract. This afternoon, Mr. Ellis received a long distance call from the company representative, advising he is leaving New York for Colorado immediately; that it will be necessary to lay off the employees unless they know they have a contract. Mr. Ellis is anxious to have this passed upon by the Operating Committee tomorrow, if possible, and in the mail by tomorrow night. He will appreciate it if you can see that that is done.

Grace L. Ault
Secretary to
Ernest Wm. Ellis

STANDARD FORM NO. 64

Office Memorandum • UNITED STATES GOVERNMENT

gla 1/17/52
Correction in Exh. A made & trans. let + 6 copies contract taken to Hazel Bering 1/17/52

TO : E. W. Ellis - DMEA

DATE: Jan. 14, 1951

FROM : A. P. Butler, Geological Survey

SUBJECT: Docket No. DMA-1631X (Uranium) Excalibur Uranium Corp.

Exhibit A, par. 3 line 2 seems to have an error in distance from portal that crosscut is to be located. Adits are to be 100 ft. long. Present statement reads "... crosscut ~~approximately~~ 100 feet long, ~~approximately~~ 500 feet from the portal." Relative distance from portal should read "50 feet."

Arthur P. Butler

140

FILE COPY
SURNAME:

Guthrie

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

January 8, 1951

not stripped in R. R.

Memorandum

To: Acting Administrator

From: Chief Counsel

Subject: The Excalibur Uranium Corporation exploration contract — Docket No. DMA-1631X

The redraft of the Exploration Project Contract in this case, resubmitted to us on December 16, 1951, with certain of the revisions we suggested in our memorandum of December 7, 1951, has been modified in certain particulars and placed in what we believe to be satisfactory final form.

The following features of Exhibit "A", while involving nothing legally objectionable, are commented upon:

1. The large item for road building shows no details as to specifications or estimated costs.

2. Although only 25% of the cost of the ferry is charged to the project, the entire cost of the road is being charged.

3. Two supervisors are provided for, one at $600.00 per month and one at $500.00 per month.

Six copies of the contract as redrafted, together with your file on the case are returned herewith.

J. L. Hofflund

J. L. Hofflund
Chief Counsel

RRGuthrie/bjl

Attachments
Copy to: Repts. & Records
J. L. Hofflund
R. R. Guthrie
Chron.

JOSIAH G. HOLLAND
STEPHEN H. HART
JOHN L. J. HART
PETER H. DOMINICK
WILLIAM D. EMBREE, JR.
PATRICK M. WESTFELDT
CLAUDE M. MAER, JR.
ROBERT P. DAVISON
JOHN FLEMING KELLY
DONALD W. ROE
FRANK H. MORISON
RAYMOND COBB JOHNSON
THOMAS J. CASEY

LAW OFFICES
HOLLAND & HART
EQUITABLE BUILDING
DENVER 2, COLORADO

DEPARTMENT OF THE INTERIOR
RECEIVED
JAN 4 1952
Defense Minerals Administration,
Production Expansion Division.

January 2, 1952

Defense Minerals Administration
Department of The Interior
Washington 25, D. C.

Attention: Mr. E. R. Gordon

Re: Excalibur Uranium Corporation

Dear Mr. Gordon:

Would you let me know what the present status is on our application for a loan for exploratory work in the Bowknot area?

It was my understanding from our last telephone conversation that the loan would be processed and sent out to East about the first of the year. Have there been any changes in this or have unexpected complications arisen?

Sincerely,

Peter H. Dominick

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 4 1952

PHD
mjb

AIR MAIL
SPECIAL DELIVERY

TAKE IT FROM ONE WHO KNOWS
TOPS IN CHEER!
TELEGRAPH YOUR
HOLIDAY
Greetings
BEAUTIFUL BLANK
SPECIAL ENVELOPE
6014(51)

WESTERN UNION

1201

W. P. MARSHALL, PRESIDENT

SYMBOLS
DL=Day Letter
NL=Night Letter
LT=Int'l Letter Telegram
VLT=Int'l Victory Ltr.

...d day letters is STANDARD TIME at po... Time of receipt is STANDARD TIME at point of destination

DEPARTMENT OF THE INTERIOR
RECEIVED
1951 DEC 12 PM 11 37

AA801 KA553

DEC 13 1951
Defense Minerals Administration,
Production Expansion Division.

K.DVB736 NL PD=DENVER COLO 12=

:E R GORDON ESQUIRE, DEFENSE MINERALS EXPLORATION
ADMINISTRATION=
DEPT OF INTERIOR WASHDC=

PLEASE WIRE ME OR CALL COLLECT ON STATUS OF EXCALIBUR BOW KNOT APPLICATION INFORMATION NEEDED FOR BOARD MEETING AND FUTURE PLANNING ON OPERATIONS ADDRESS 350 EQUITABLE BUILDING, DENVER, COLORADO, TELEPHONE ALPINE 3683. MANY THANKS FOR YOUR COOPERATION=

PETER H DOMINICK=..

THE COMPANY WILL APPRECIATE SUGGESTIONS FROM ITS PATRONS CONCERNING ITS SERVICE

DEC 13 7 11 AM '51

BUREAU OF MINES
MAIL ROOM
WASHINGTON, D. C.

FILE COPY
SURNAME:

Gathrie

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

140

December 7, 1951

Memorandum

To: Director, Production Expansion Division

From: General Counsel

Subject: The Excalibur Uranium Corporation, exploration project contract--Docket No. DMA-1631x

I am unable to approve the draft of the contract on account of the following defects:

1. Assuming that the Operator is the owner of the described property, Article 2(b) of the contract form must be stricken out.

2. In Exhibit "A", under the title "Fixtures and Improvements," subtitle "To be rented," the item "1 Airplane ..." etc., is ambiguously set forth. If my understanding of what is intended is correct, it should be set forth as follows:

"1 Airplane, including operator, maintenance, repairs, and all incidentals --225 hours at $8.00 per operating hour $1,800.00"

3. In Exhibit "A", under the title "Operating Equipment," subtitle "To be supplied by Operator," appear two items, a bulldozer and a truck, as to which the allowance to the Operator is expressed in terms of "operating hour, including labor, operation and maintenance." Inasmuch as the Operator will present vouchers, under the terms of the contract, for all labor and supplies used in his operations, it will not do to combine his allowance for equipment with labor, supplies, and repairs, as if he were renting the equipment from some third person. Attached is a copy of a DMEA Circular entitled "Fixtures and Improvements, Operating Equipment and Allowable Rental, Purchase Price, or Depreciation," which has been approved and is now being prepared for publication. This will

BL

explain more fully how the allowance for equipment furnished by the Operator is to be handled in Exhibit "A." See the comment above on the airplane.

4. In Exhibit "A", under the title "Operating Equipment," subtitle "To be rented," appears the following:

> "Note: If any of proposed equipment to be rented is actually owned by operator, standard depletion allowance of 1/60 replacement cost per month must be allowed instead of rental rates."

There is no "standard depletion allowance" as indicated in this note. It is necessary that the contract should be certain with respect to the categories of operating equipment, i.e., whether they are owned and supplied by the Operator or to be rented from third persons. If this cannot be ascertained from the present file, I think it should be ascertained from the field before the contract is drafted. A glance through the file seems to indicate that the Operator does own the airplane and several of the items that are listed under the subtitle "To be rented."

5. In Exhibit "A", under the title "Estimated Costs" is an item "Consulting, sampling, assaying--$1,500.00." Then under the title "Labor and Supervision" is an item "1 Consulting engineer, when actually employed--$80.00 per diem." If "consulting" in both of these schedules refers to the same thing, it would be better to list the "consulting" as one item and the "sampling, assaying" as another item.

In addition to the foregoing points which in my opinion necessitate correction of the contract form and restatement of Exhibit "A", I will make the following observations for your administrative consideration: This is quite a large contract, $59,293, of which the Government will contribute 90 percent or $53,363. Therefore, the statement of the estimated costs and the specifications for the work to be performed should be as certain as is reasonably practicable with this sort of contract.

Part of the work to be performed is "3 miles of road to river" at the estimated cost of $15,000. No other description whatever of this road is included in the contract, and as far as the contract is concerned it might be a permanent installation suitable for future mining operations. The same is true of "ferry across Green River" at

an estimated cost of $2,500. There are some "900 feet of drifts and crosscuts" with no sort of specification in the contract as to their character or size, or whether they are limited to such as might be necessary for the exploration work.

J. L. Hofflund n.s R+R

J. L. Hofflund
General Counsel

Attachment

RRGuthrie/JLHofflund/em

Copy to: Reports & Records
J. L. Hofflund
R. R. Guthrie
Chron.

JOSIAH G. HOLLAND
STEPHEN H. HART
JOHN L.J. HART
PETER H. DOMINICK
WILLIAM D. EMBREE, JR.
PATRICK M. WESTFELDT
CLAUDE M. MAER, JR.
ROBERT P. DAVISON
JOHN FLEMING KELLY
DONALD W. ROE
FRANK H. MORISON

LAW OFFICES
HOLLAND & HART
EQUITABLE BUILDING
DENVER 2, COLORADO

DEFENSE MINERALS
ADMINISTRATION
WASHINGTON, D. C.
NOV 26 9 16 AM '51

DEPARTMENT OF THE INTERIOR
RECEIVED
NOV 27 1951
Defense Minerals Administration,
Production Expansion Division.

November 23, 1951

Defense Minerals Administration
Department of The Interior
Washington, D. C.

Uranium

Omar 1631

Attention: Mr. Ernest R. Gordon

Re. Excalibur Uranium Corporation

Dear Mr. Gordon:

This letter is written in answer to your telephone request for a rough breakdown of various items on our Bowknot application for an exploration loan, filed in May, 1951.

It is apparent from the discussions with you and from subsequent review of our application that many of the items requested by you pertain not to the application which we filed, but to the report filed with your office by the field men, namely Mr. Osterstock and Mr. Thurber. We of course do not have knowledge of the report and can not be explicit on any particular item set forth therein. However, we are attempting to use our own knowledge of the situation and to supply information which may be of some help.

Accordingly, we will itemize our answers to your questions as best we can.

1. A breakdown of the men who will be working on the exploration project, together with proposed wages:

8 Drillers at $18 per day, 25 days per month, $3600 per month, total for 3 months, $10,800;

12 Muckers at $15 per day, 25 days per month, $4500 per month, total for 3 months, $13,500;

Total Workmen's Compensation, Utah Unemployment, and Social Security Taxes, $2,371.68.

2. In answer to question 23B in our application we set forth that we would need 2 supervisors, 1 at $500 per month and 1 at $600 per month, or a total of $3300 for 3 months. In addition there will be a total of $322.08 for Compensation, Utah Unemployment, and Social Security Taxes.

3. With reference to the road we must state that there will be approximately 3 miles of rimwork along the Aileen,

Denise, and Willow claims. Because of the fact that this work will commence prior to the time when our own access road, being put in at our own expense, will be completed a great deal of the labor will be hand labor and therefore $5,000 per mile appears reasonable. In addition to the rimwork we will of course have over 3 miles of canyon work in bringing our own access road from the bottom of the canyon to the east shore of the Green River. This road is necessary in order to enable equipment to get into the area and thereby speed up our exploratory work.

4. The aircraft and trucking rental is broken down as follows:

Aircraft rental at $8 per hour, 3 hours per day, 25 days per month, or $600 per month and a total of $1800 for 3 months; private

Trucking rental at $5 per hour, 2 hours per day, 25 days per month, or a total of $750 for 3 months. belongs to co.

The aircraft rental includes gas, oil, and pilot but the trucking rental is for the truck only.

5. Sampling and engineering: The company from time to time employs a consulting engineer who was recommended to us by the regional office of the Atomic Energy Commission. In addition to the engineering reports which he gives to us he also takes samples and has the same assayed. His cost is $40 per day for field work and $40 per day in preparing the report, or a total of $80 per day. We estimate that he will probably make 5 3-day visits during the 3 month period, at a cost of $1200 to us. In addition there will be approximately 60 sample assays taken at $5 per sample at a cost of $300.

6. The pumps for water, complete with a motor, will cost $725. The water tanks, 4 at $80, with fittings will cost $320. 4 500 gallon storage tanks at $112 each will be needed, for a total of $448. The oil companies supplying us with oil and gas have offered to give us oil storage tanks free of charge and that should be stricken as an item of expense.

7. The following breakdown of the drift cost per foot is apparently lower than that recommended in the field report. This estimate on a basis of 25' per day comes out to a rough

figure of $30.68 per foot. We believe that because of the inaccessibility of the area and the necessity of using hand labor, the cost of this will be higher than that indicated in our figures:

Steel and bits.	$ 75.00
Dynamite.	~~250.00~~
8 drillers @ $18.	144.00
12 muckers @ $15.	180.00
Insurance and tax on above.	31.62
Supervision	44.00
Insurance and tax on above.	4.29
Depreciation on equipment	12.00
Maintenance	10.00
Transportation.	7.50
Gas and oil for equipment	8.50
Timbering & misc.	

In item 6 you also requested some sort of a time schedule for the various items of work, our original application having been set up on a 3 month basis. It is apparent that until we can get equipment into the actual area additional time will be needed. The present estimate, which is an estimate only, because of the extreme difficulty of the work, indicates that our access road will not reach the east shore of the Green River until approximately February 1. The barge should be completed by that time. In the meanwhile all gas and supplies must be floated down river on a small barge from Green River or flown in by air. Of necessity this means that the rimwork, the bulldozing, and the hand labor on the drifts will take longer than we originally estimated. Our operations manager computes this as follows:

Trail rimwork.	5 months
Bulldozing.	5 months
Installation of barge and completion thereof	3 months

(therefore transportation by barge from Green River of gas and supplies will be at least 3 months).

We are counting on at least 1500' of drifts and probably will have an excess of that at the end of a 5 month period. We should however have 1500' at the end of a 3 month period.

As noted at the beginning of this letter, it is a little difficult for us to coincide our original application with the apparent recommendations in the field report. It sounds as though the field men have recommended more than we have asked for and perhaps this has something

to do with our letter of amendment to the Bowknot application in which we requested exploratory loans of sufficient size to explore the entire west side of the Bowknot. This would of course take in considerably more than the Denise, Aileen and Willow claims, and would necessitate substantial additional funds.

In processing this loan it may be of interest to you to know that we have done considerable financing of our own and at the present time have more drift footage in the Shinerump than any other mining company in the country. Up to date these drifts have all shown substantial bodies of good commercial ore. Outcrops in between these drifts, where our initial exploration work will be done indicate that at least as good results can be expected. However, it must also be apparent to you that until our road is completed and we can actually start production, all exploratory work is done strictly on working capital and our financial backers have informed us that the last amount raised must suffice until production is started. We are therefore in the position of having to stop all exploratory work in order to conserve capital, unless we can get further funds from the Government. Inasmuch as we have been working with probably more initiative than any other company and in close coordination with the A. E. C., we feel that we are certainly entitled to some assistance under Mineral Order No. 5. In fact, every single person in the A. E. C. has constantly asked us why we have not received any Government aid up to this point.

I trust that the figures submitted will be of assistance to you and that by the time I get to Washington, about November 30, you will be able to give me most welcome news. If you have any further questions I will be here until the evening of November 27 and will be glad to cooperate in any way possible. With reference to the apparent disparity between our application and the field report, two things should be pointed out. Our application was filed approximately the middle of May, 1951, or some six months ago. Since that time we have been extremely active in trying to explore our own properties. The field report itself was conducted two months after the application was filed, and was apparently not received by your office until September. At that time I requested a copy of it so that we could review that with our operations manager and coordinate our projects. Access however to this report was denied.

Sincerely,

Peter H. Dominick

PHD
mjb

P. S. Enclosed are six photostats of a map of the Aileen, Denise and Willow claims with present and proposed drift sites and trails. We also enclose a copy of this letter.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

224 New Customhouse
Denver 2, Colorado

WASHINGTON 25, D. C.

Air Mail

September 13, 1951

Memorandum

To: Executive Secretary, Defense Minerals Administration

From: DMA Field Team, Region IV

Subject: Final Report, DMA Docket 1631-X, Excalibur Uranium Corporation, applicant, Bow Knot Uranium Claims, Emery and Grand Counties, Utah.

Enclosed herewith are the original and two copies of the report on the subject docket.

We concur with the conclusions and recommendations of the examining team that the exploration loan of $69,010 be approved.

The Brochure is enclosed.

Paul T. Allsman, Alternate

A. H. Koschmann

Enclosures

DEFENSE MINERALS ADMINISTRATION WASHINGTON, D.C.
SEP 17 8 44 AM '51

ON-SITE EXPM

Mining Division
Region IV

September 12, 1951

Memorandum

To: DMA Field Team, Region IV

From: Chief, Mining Division, Region IV

Subject: Final Report, DMA Docket, Excalibur Uranium Corporation, applicant, Raw Knot Uranium Claims, Emery and Grand Counties, Utah.

Application for an exploration project of the subject docket is for a total amount of $69,010 with the government's share amounting to $62,189.

The proposed exploration will consist of approximately 5,000 feet of bulldozer trenching and rim-clearing and 900 feet of adits and stub drifts.

According to the U. S. Geological Survey, the ore deposits of the Raw Knot area are apparently in the upper (?) Triassic Shinarump conglomerate. Mineralization was localized by porosity, permeability, and favorable composition during a period of oscuring and channeling.

From the available geologic data, the indicated and inferred reserves are 10,400 tons averaging 0.217 percent U_3O_8.

The examining team recommends approval of the exploration loan, with which we concur.

The report contains the essential data for the Exhibits accompanying an Exploration Project Contract.

Paul T. Allsman

Mining Division
Date Rec'd.
SEP 10 1951
BUREAU OF MINES
Denver, Colorado

September 7, 1951

TO: Paul T. Allsman, Chief, Mining Division, Region IV

FROM: Chief, Utah-Wyoming Branch, Mining Division

SUBJECT; DMA-1651X - Excalibur Uranium Corp., Bow Knot Bend area, Grand and Emery Counties, Utah

Attached are eight copies of the uranium engineering report and Summary, Conclusions and Recommendations section of the subject property. The Survey will submit a geologic section.

The brochure and accompanying data are enclosed.

S. R. Wilson

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Defense Minerals Administration
200 New Customhouse
Denver 2, Colorado

September 4, 1951

Memorandum

To: DMA Field Team, Region IV

From: A. H. Koschmann

Subject: DMA Docket 1631, Excalibur Uranium Corporation, Location of mine in Bow Knot Area of the Green River, Utah

Enclosed are 8 copies of the geologic report by R. W. Osterstock, U. S. Geological Survey, and H. K. Thurber, U. S. Bureau of Mines, covering the above docket.

A. H. Koschmann
A. H. Koschmann
Supervising Geologist
Colorado-Wyoming

Enclosures (11)

_C_O_P_Y_

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Room 307, 320 South Main
Salt Lake City 1, Utah
31 August 1951

Memorandum

To: A. H. Koschmann, Field Team IV

From: Ralph J. Roberts

Subject: Docket DMA 1631, Excalibur Uranium Corporation, Location of mine in Bow Knot Area of the Green River, Utah

Enclosed are 8 copies of a geologic report of an investigation of the Excalibur Uranium Corporations mine in the Bow Knot Area of the Green River, Utah.

The ore deposits of the Bow Knot Bend area are apparently in the upper (?) Triassic Shinarump conglomerate. It is believed that the mineralization was localized by porosity, permeability, and favorable composition, during a period of scouring and channeling.

It is estimated from the geologic data available that indicated and inferred Uranium ore reserves totals about 10,400 tons averaging 0.217 percent U_3O_8.

It is suggested that 5,000 feet of trenching and rim clearing be done to explore further prospects of Uranium ore. The proposed exploration program is designed to investigate the inward extent as well as the grade of zones that are known to contain ore at the surface.

It is recommended that the Defense Minerals administration enter into a contract with the applicatn to do the proposed work estimated to cost $69,010. On the 90% participation basis, the government will therefore provide $62,189 as its share.

I concur in the recommendation of the examining geologist and engineer that the Defense Minerals Administration enter into a contract with the applicant for the outlined exploratory work.

/s/ Bonnie M. Stagg

for - Ralph J. Roberts

UNITED STATES
DEPARTMENT OF THE INTERIOR
OSCAR L. CHAPMAN, SECRETARY

DEFENSE MINERALS ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION IV

Docket DMA 1631, Excalibur Uranium Corporation

Location of mine in Bow Knot Area of the

Green River, Utah

H. K. Thurber, Mining Engineer
U. S. Bureau of Mines

R. W. Osterstock, Geologist
U. S. Geological Survey

August 23, 1951

EXCALIBUR URANIUM CORP.
GRAND JUNCTION, COLO.

SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

By H. K. Thurber, Jr., and
R. W. Osterstock

The Excalibur Uranium Corp., Grand Junction, Colorado, has applied for an exploratory loan of $62,500 (DMA Docket 1631-X), to explore uranium deposits on property in the Bow Knot Bend area of the Green River, Emery and Grand Counties, Utah. An examination of the property was made July 10 to 12, 1951, by a team consisting of a geologist of the U. S. Geological Survey and a mining engineer of the Bureau of Mines to appraise the feasibility of the proposed exploration.

The ore deposits of the Bow Knot Bend area are apparently in the upper (?) Triassic Shinarump conglomerate. The Shinarump was deposited unconformably on the underlying lower Triassic Moenkopi formation. Shinarump grits, sandstones, and conglomerates now fill the channels; some of the individual beds in the channel fillings have been susceptible to ore mineralization. It is believed that the mineralization was localized by porosity, permeability, and favorable composition.

Most of the ore appears to be contained in grayish, crossbedded, sandy siltstones and to be concentrated in irregular lenses which were deposited on an uneven erosion surface. Grayish-green, sandy shales often underlie the ore-bearing beds and serve as useful indicators.

The ore-bearing beds beyond the leached outcrops have been found to contain substantially more uranium than was indicated in the leached exposures.

Ore reserves are based on geologic inference, because the persistence of particular ore-bearing channels has not yet been determined. The total 10,400 tons of indicated and inferred ore reserves has a weighted average of 0.217 percent U_3O_8.

The exploratory program outlined by the Bureau of Mines consists of clearing outcrops of the ore horizon and driving adits in areas known to contain ore. Parallel adits 100 feet long and connected by crosscuts are proposed. However, certain flexibility should be allowed in order to follow the trend of the lenticular ore bodies.

The exploration proposed will cost an estimated $69,010. Under DMA regulations the Government provides 90 percent, or $62,109. The corporation is thought to be financially able to supply the remaining 10 percent.

The results of exploration accomplished before the date of the examination, the assay results obtained from various claims in the area, and the total inferred and indicated ores lead to the conclusion that the Bow Knot Bend area has potentialities as a uranium producing area.

In view of the above conclusion, it is recommended that an exploratory loan of $69,010 be granted to the Excalibur Uranium Corp. to carry out the proposed exploratory program.

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Figure 3. Geologic map of the Bow Knot Bend area, Emery and Grand Counties, Utah.

Docket DMA 1631, Excalibur Uranium Corporation,

Location of mine in Bow Knot Area of the

Green River, Utah

Geology

GEOLOGY

The Defense Minerals Administration has requested a geological examination of the Excalibur Uranium Corporation's property to determine the advisability of further exploration work. H. K. Thurber represented the U. S. Bureau of Mines and R. W. Osterstock represented the U. S. Geological Survey during the two day joint examination of the property.

Along the Bow Knot Bend the walls of this canyon consist of Lower and Middle Mesozoic sediments in which the dominant rock types are sandstone, siltstones, and sandy shales. Local alteration has produced some clay-like deposits near the contact between the Lower Triassic Moenkopi formation and the Upper (?) Triassic Shinarump formation.

The formations exposed in the walls of the Green River Canyon are the Lower Triassic Moenkopi, the Upper (?) Triassic Shinarump, the Upper Triassic Chinle, and the Lower Jurassic Wingate.

The Moenkopi formation unconformably overlies the Permian Cutler group; but neither the Cutler nor the basal members of the Moenkopi are exposed in the Bow Knot area. The top of the Moenkopi is marked in most parts of southeastern Utah by a distinct erosional unconformity which, however, is not prominent in the Bow Knot area. The Moenkopi appears to be mainly composed of regularly bedded silty sandstones and sandy shales, which weather to a generally uniform slope, but it contains a few sandstone lenses that form small benches and ledges. The weathered slopes are dominantly chocolate brown to

red-brown. A few gray-green shale zones were noted near the top, and the uppermost member was generally found to be a grayish shale, which had been altered in places to a greenish clay.

The Shinarump, which contains the ore, appears to have been deposited unconformably on the Moenkopi during a period of scouring and channeling. The Shinarump formation was not identified, as such, in the area by A. A. Baker [1]. The Shinarump consists mainly of sandstone, the basal part of which

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[1] Baker, A. A., Geology of the Green River Deseret-Cataract Canyon Region, Emery, Wayne and Garfield Counties, Utah: U. S. Geol. Survey Bull. 951, pp. 58-60, 1946.

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forms the lowest ledge-forming sandstone above the river. Locally the formation reaches a thickness of about 50 feet. A few thin, discontinuous, conglomerate lenses are interbedded with the irregularly bedded sandstones and sandy siltstones. Overlying the predominantly sandy-ledge-forming members is a gray-green sandy shale, which grades laterally and upward into the lowermost beds of the Chinle. A. A. Baker [1], E. T. McKnight [2], and C. H. Dane [3] all

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[1] Baker, A. A., Geology of the Monument Valley-Navajo Mountain Region, San Juan County, Utah: U. S. Geol. Survey Bull. 865, pp. 44-47, 1936.

[2] McKnight, E. T., Geology of the area between the Green and Colorado Rivers, Grand and San Juan Counties, Utah: U. S. Geol. Survey Bull. 908, pp. 63-66, 1940.

[3] Dane, C. H., Geology of the Salt Valley Anticline and Adjacent Areas: U. S. Geol. Survey Bull. 863, pp. 54-65, 1935.

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believe that the Shinarump conglomerate is a widespread lithologic unit and that it is the basal member of the Chinle formation. The base of the Chinle does in fact grade into the underlying Shinarump.

The Chinle in the Bow Knot area is composed of red-brown sandstones and sandy siltstones with a few interbedded layers of sandy shale and grit. The lower half is dominantly sandstone and the upper half is dominantly sandy shale. The shales of the upper half stop abruptly against the overlying massive red Wingate sandstone.

ORE DEPOSITS

The mineralogy of the Bow Knot uranium ores is not fully known. Field identification of the secondary uranium minerals is difficult owing to their extreme fineness of grain.

Ore minerals tentatively identified from the Willow No. 1, Danise No. 1, and Aileen claims are carnotite, uranophane, torbernite, and voglite (?). Gangue minerals associated with the ore are pyrite, gypsum, calcite, and some unidentified clay minerals.

All the exposures of uranium ore except those in the Danise No. 1 workings are in the leached oxidized zone. The operators have relied on radiometric "highs" in this zone, rather than on megascopic mineral showings, as indicators of potentially productive areas. But radiometric readings along leached exposures may be very high where the uranium content, as determined by assays, is not of ore grade. This apparent discrepancy is due to the fact that, although fission products of uranium which remain in the leached zone register radiometrically, they are not always reliable indicators of uranium content. It is generally expected that the leached zone will not extend into the cliff more than 10 to 25 feet and the oxidized zone not more than 75 feet.

The ore bodies examined have not undergone sufficient development work to serve as a basis for accurately forecasting their size, shape, and grade.

The Willow No. 1 claim (see fig. 3) is reported by the operators to have a 21-foot vertical face of .06 percent uranium. A 4-foot channel cut on the face by the U. S. Bureau of Mines engineer assayed .019 percent uranium. No ore minerals were visible to the naked eye, nor did there appear to be any appreciable concentration of radioactivity associated with blebs and stringers of black carbonaceous material. The mineralization is in a poorly sorted conglomerate which contains limestone cobbles up to 2 1/2 inches in diameter in a matrix of gritty gray sandstone. Some brownish sandstone pebbles and a few gray-green shale pebbles were also noted. The conglomeratic lens is underlain by 3 feet of gray-green sandy shale now somewhat altered to a sandy clay-like mass. Overlying the lens is a persistent massive red sandstone bed about 6 feet thick. Crossbedding on a large scale is very pronounced, the bedding is irregular and the conglomeratic ore zone has a lens-like form; and the relations of the ore to these features tend to indicate that the dominant factors controlling localization of the ore minerals have been permeability and porosity.

The Danise No. 6 claim, adjacent to the north boundary of Willow No. 1 (see fig. 3), has not been opened up. Green shaly sandstone, with much clay (probably from alteration) and abundant carbonaceous material in small blebs and stringers, shows strong radiometric activity. A partially carbonized tree trunk shows no appreciable increase of radioactivity, though several other trees are said to have been well mineralized. The mineralized zone appears to be near the base of the Shinarump, in irregularly bedded sandstone and sandy shale. A few limy concretions were noted near the bottom of the zone. A mineral tentatively identified as torbernite was found in one piece of fossil wood. Fibrous gypsum is well developed on fracture surfaces. A 10-foot channel cut assaying 0.14 percent U_3O_8 is reported by the operators to have been taken in this locality.

The Danise No. 1 claim has two small adits (see fig. 2), which have penetrated beyond the leached zone. The No. 1 adit was started in a 1 1/2-foot thick bed of obviously oxidized and leached material. Gray friable sandstones with good crossbedding alternate locally with gray sandy shales. The sandstones contain a few blebs of greenish shale which was also noted in a few thin discontinuous beds. Irregularities of the sandstone lenses, together with the rolling nature of the ore zones, indicate scouring during the deposition of the sandstone. The ore zone does not appear to cut across the bedding. Thus porosity, permeability, and favorable composition appear to have controlled the distribution of the ore. Highly carbonized seams in the walls of the adit do not carry higher than average concentrations of uranium minerals,although fine disseminations of pyrite are conspicuous in the carbonized material. The best ore is in dark-gray medium- to fine-grained sandstone. It is reported by the operators that green clay-like material underlying the dark-gray sandstone assayed 0.14 percent U_3O_8, and that a lighter gray sandstone overlying the dark gray sandstone assayed 0.44 percent U_3O_8.

The Aileen No. 1 claim, on the north side of the Bow Knot bend (see fig. 3), had at the date of the examination, an opening about 3 feet long in a conglomeratic lens, which is here about four feet thick; the conglomerate contains cobbles of sandy shale and limy sandstone up to 3 inches in diameter, in a matrix of medium-grained sand. Underlying the conglomeratic lens, which appears to have a lateral extent of about 150 feet, is an irregular zone of gray-green shale. Above the conglomerate is about 1 foot of gray sandstone with a limy-appearing matrix. This is in turn overlain by about 2 feet of thin-bedded shaly sandstone. The entire sequence appears to grade into the

overlying Chinle formation, and it is uncertain whether the ore zone is in basal Chinle or in Shinarump.

Copper staining is notable in the ore zone, and although no uranium minerals were megascopically identifiable it is likely that most of the uranium is contained in torbernite. Some finely disseminated pyrite was seen in loose rock fragments near the opening.

ORE RESERVES

A clear picture of the distribution of ore reserves in the Green River region cannot be drawn at this time, and too little mining has been done in the area to provide a reliable basis for estimating ore reserves. The Bow Knot area has no record of past production. The size, shape, and grade of single ore bodies, therefore, must be inferred from geologic data.

Descriptions of the ore bodies on the Willow No. 1, Danise No. 6, Danise No. 1, and the Aileen No. 1 claims follow:

Willow No. 1 (see fig. 3).—The ore zone is in a conglomeratic lens known to have a lateral extent of not less than 400 feet; how far the lens extends into the hill is not known. A vertical face 21 feet high is said by the operators to have assayed 0.06 percent U_3O_8, a 4-foot channel cut by the U. S. Bureau of Mines engineer assayed 0.019 percent U_3O_8.

This apparently large low-grade ore body has been sampled only on its oxidized and leached surfaces. Phillip Dodd [1] has predicted that the leached zone of the typical copper-uranium prospect may be from 0.05 to 0.15 percent lower in U_3O_8 content than the unleached ore zone.

[1] Dodd, Phillip, Preliminary report on copper-uranium mineralization of the White Canyon-Happy Canyon type, Colorado Scientific Society, 1951.

If the conglomeratic lens is mineralized over half its lateral extent, extends into the cliff 100 feet, and averages 5 feet in thickness, it will contain about 7700 tons [1] of inferred ore. It may be assumed that the unleached zone will average about 0.20 percent U_3O_8.

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[1] An arbitrarily assigned factor of 13 cu. ft. per ton has been used for calculating tonnages.

Danise No. 6.—As no development work on this claim is anticipated, its ore reserves have not been calculated.

Danise No. 1 (see figs. 2 and 3).—The ore in this claim is in gray sandstones and gray sandy shales. Two adits in the ore zone have apparently penetrated unleached ore. Assay samples taken by the U. S. Bureau of Mines engineer and by Leo Coady, a consultant associated with the Excalibur Mining Company, indicate a distinct rise in the grade of the ore on entrance into the unleached zone. If the ore is in depositional channels in the sandstone, no accurate estimate of ore reserves can be made, as neither the inward extent of the channels nor the thickness of the ore bed is known. It may be assumed, however, that the two adits block out a zone of ore which has a lateral extent along the cliff of 80 feet, extends inward 60 feet, averages 3 feet in thickness, and contains 1200 tons of indicated ore. If the highest-grade samples are disregarded as being abnormal, this block of ore should have an average content of 0.35 percent U_3O_8.

Aileen No. 1 (see fig. 3).—The ore is in a conglomeratic lens estimated to have a lateral extent of 150 feet along the cliff, and an average thickness of 4 feet. If it is assumed that the conglomeratic lens is mineralized over one half its lateral extent, that the mineralization extends inward 50 feet,

and that the thickness remains constant, the block of ground will contain about 1500 tons of inferred ore. Samples in the leached zone taken by the U. S. Bureau of Mines engineer indicate an average content of 0.043 percent U_3O_8. In the unleached ore zone the average U_3O_8 content may rise to about 0.20 percent.

Table of Ore Reserves

	Indicated (tons)	Inferred (tons)	Percent U_3O_8
Willow No. 1		7700	0.20
Danise No. 1	1200		0.35
Aileen No. 1		1500	0.20

Total indicated and inferred - 10,400

PROPOSED EXPLORATION

The U. S. Bureau of Mines has suggested, as an initial step in the exploration of the Bow Knot Bend area, that 5000 feet of trenching and rim clearing by bulldozer be done. The location of this work is to be decided upon by the mine operators, and will be based principally on data gathered from radiometric surveys. This proposal is geologically sound, for the sensitivity of most radiometric methods decreases rapidly in proportion to the thickness of cover over a particular mineralized zone. Clearing of the potentially ore-bearing strata is therefore very likely to expose ore zones worthy of further exploration.

The U. S. Bureau of Mines has also proposed that two adits each 100 feet long, be driven on each of the three claims known to contain ore, namely the

Willow No. 1, the Danise No. 1, and the Aileen No. 1. On the Willow No. 1 and the Aileen No. 1, the adits are to be about 100 feet apart and are to be connected by a crosscut about 50 feet from the portals.

Lack of precedent in the Bow Knot area prevents the use of a tested exploration program as a basis for a proposed program. It is believed advisable, however, to explore good surface showings by exploring the unleached zone behind the outcrops. The small adits driven on the Danise No. 1 claim have proved that the grade of ore may substantially improve inward from the leached outcrops. As not enough information is available to form a working hypothesis regarding the distribution of mineralization, the persistence of ore beyond the outcrop must be determined by some kind of physical exploration. The extremely rough terrain and the lack of water prevent the use of diamond drilling, so that the only feasible method of exploration is drifting.

It is recommended that the plans of drifting on all three claims remain flexible; channels or beds containing ore should be followed, and it is not likely that these will run straight for long distances.

SUMMARY AND CONCLUSIONS

Most of the ore appears to be contained in grayish, crossbedded sandy siltstones in the Shinarump formation. The ore appears to be concentrated in irregular lenses which were deposited on an uneven erosion surface. Porosity, permeability, and favorable composition seem to have been the dominant factors that controlled the localization of the ore minerals. Grayish-green sandy shales often underlie the ore-bearing beds and serve as useful indicators.

The ore-bearing beds behind the leached outcrops contain substantially more uranium than was indicated in the leached exposures. It is concluded that the ore

reserves total 10,400 tons of indicated and inferred ore with a weighted average of 0.217 percent U_3O_8. The ore reserves are based on geologic inference, because the persistence of particular ore-bearing channels has not yet been determined.

The proposed exploration program is designed to investigate the inward extent as well as the grade of zones that are known to contain ore at the surface. Drifts one hundred-feet long will penetrate the leached and oxidized zones sufficiently to provide evidence of how the ore is distributed in the mineralized zones.

It is recommended that the Defense Minerals Administration enter into a contract with the applicant to do the proposed work estimated to cost $69,010. On the 90 percent participation basis, the government will therefore provide $62,109 as its share.

EXCALIBUR URANIUM CORP.
EMERY AND GRAND COUNTIES, UTAH

Engineering Report

By H. K. Thurber, Jr.
Mining engineer
U. S. Bureau of Mines

Engineering

EXCALIBUR URANIUM CORP.
EMERY AND GRAND COUNTIES, UTAH

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ILLUSTRATIONS

Fig. 1. Location map, Excalibur Uranium Corp. property
Fig. 2. Assay plan map, Danise No. 1 claim
Fig. 3. Geologic map, Bow Knot Bend area
Fig. 4. Plan of indicated ore, Danise No. 1 claim
Fig. 5. Aerial view of the Green River in the Bow Knot Bend area looking northwestwardly, showing stratigraphy. JK is Kayenta formation, JW is Wingate formation, TR C is Chinle formation, TR S is Shinarump formation and the ore horizon, and TR M is Moenkopi formation.
Fig. 6. View of portals of adits on Danise No. 1 claim. Bedded character of the deposit may be seen behind two figures on dump.

INTRODUCTION

The Excalibur Uranium Corp., whose offices are in the Vorbeck Building, Grand Junction, Colo., has requested a DMA exploratory loan of $62,500, Docket 1631-X, to explore mining claims in the Bow Knot area of the Green River, Grand and Emery Counties, Utah. The corporation proposes to explore ore horizons by surface bulldozer trenching and underground adits on several claims.

An examination of the property was made July 10 to 12, 1951, by a team consisting of a geologist of the Geological Survey and a Bureau of Mines engineer. This report is a result of the examination and appraises the feasibility of the proposed project.

ACKNOWLEDGMENTS

The Bureau of Mines wishes to acknowledge the aid given the team by the representatives of the corporation, both in supplying information pertaining to the proposed project and in providing air transportation to the isolated Bow Knot area.

LOCATION AND PHYSICAL FEATURES

The Bow Knot Bend area of the Green River lies in Emery and Grand Counties, Utah, approximately 27 miles south and 8 miles east of Green River, Utah, in unsurveyed T. 25 S., R. 17 E., S.L.B.M. The area is 25 miles west of Moab, Utah. The Green River forms the boundary between Emery and Grand Counties in this area.

The topography is typical of the Colorado Plateau country consisting of relatively flat mesas separated by nearly vertically walled canyons which meander in a serpentine pattern to the main drainages. This is illustrated in figure 5, an aerial view of Green River Canyon. The terrain makes road building extremely difficult and the possible routes are often circuitous. The Green River at this point is narrow, but is deep and fast flowing, making crossing difficult. Any operation will require facilities for fording the river.

It is proposed that exploration be conducted on the lower canyon walls which rise steeply from brush-covered sandy benches of variable widths. The benches are virtually continuous along this section of the river. The existing camp and air strip are located on one of the large benches (fig. 5).

HISTORY AND PRODUCTION

The inaccessibility of the Bow Knot area has, in the past, excluded the prospector who traversed the surrounding area by horse or motor vehicle. Claims were staked by an organized prospecting party sponsored by the corporation to examine the outcrops of the ore horizons exposed on the river. The party traveled by boat guided by an experienced local resident, Leland Tidwell. The discovery of uranium-bearing outcrops was made in the Bow Knot Bend area early in May 1951. Claims were staked on both sides of the river and in tributary Spring and Hellroaring Canyons on the basis of radiometric observations of outcrops.

Exploratory work was started on the Danise No. 1 claim in June, using compressors and equipment barged down Green River from Ruby ranch, a short distance down river from Green River, Utah. An air strip was constructed near the camp site and supplies are flown in from Green River, Utah, a trip requiring about 20 minutes. All present transportation of men to the camp is by air (fig. 5).

Work accomplished to date has been exploratory and, because of transportation difficulties, no attempt has been made to ship ore mined, although small stockpiles exist.

OWNERSHIP AND EXTENT

The Excalibur Uranium Corp. is incorporated in the State of Colorado and qualified to do business in Utah. The corporation, formed May 7, 1951, has the following officers:

Harry B. Combs, 127 Vine Street, Denver, Colo.
president and director
Vance Thornburg, Paonia, Colo., executive
vice-president and director
Thomas E. Moore, Grand Junction, Colo.,
secretary and director
John C. Mitchell, 2601 South Sheridan Blvd.,
Denver, Colo., treasurer and director
Peter H. Dominick, 3600 South Gilipin St.,
Englewood, Colo., director.

The five largest stockholders in the company are Harry B. Combs, Vance Thornburg, Thomas E. Moore, and Peter H. Dominick, all of whose addresses are listed above, and Arthur E. Palmer, Jr., 40 Wall Street,

New York, N. Y. The remainder of the issued stock is held by members of families of the officers. None has been offered for public sale.

The corporation has staked approximately 465 claims in the Bow Knot Bend area and adjacent canyons. The proposed exploration covers only part of the claims since the area to be explored is on the west side of Green River, south of Spring Canyon (fig. 3).

The land in the Bow Knot Bend area was withdrawn from private use by the Federal Power Commission as a power site under Federal Power Site Classification No. 323, but the corporation petitioned for a restoration of the land to public use. This petition was endorsed by the Atomic Energy Commission, and a conversation between the Bureau of Mines and authorities of the Adjudication Branch, Bureau of Land Management, Salt Lake City, Utah, indicates that the petition will be approved.

DESCRIPTION OF DEPOSITS

The upper Triassic and lower Jurassic sediments which comprise the rocks of the Bow Knot Bend area are gently domed with dips averaging 3°. The lowest exposed rocks are the thin and regularly bedded, red-brown and greenish-gray siltstone, with thin beds of gray to red-brown sandstone of the Moenkopi formation. Unconformably overlying the Moenkopi is the ore-bearing Shinarump formation of variable thickness.

The lithologic character of the Shinarump is described by Arthur A. Baker.[1/]

> The Shinarump conglomerate consists principally of sandstone that is irregularly conglomeratic. The sandstone is medium to coarse-grained, more or less cross-bedded and irregularly bedded. At places the entire formation is conglomeratic but at other localities the sandstone is conglomeratic only in lenses or streaks. The pebbles consist of quartz, quartzite chert, limestone, sandstone, and clay pellets ranging in diameter from a fraction of an inch to a maximum of 3 inches or more. The limestone pebbles were observed only at outcrops in the San Rafael Swell. The general color of the Shinarump is gray on fresh surfaces, but many weathered surfaces have acquired a brownish coating of desert varnish. Interbedded with the conglomeratic gray sandstone are many lenticular beds of greenish-gray, sandy shale and gray to buff shaly sandstone. Fossil wood is abundant.
>
> The Shinarump rests upon an eroded surface of the Moenkopi formation. At the upper contact the Shinarump grades into the overlying Chinle formation. This gradation takes place at many localities through a series of thin-bedded sandstone and sandy shale beds, and it is difficult to select a precise boundary between the formations.
>
> The most satisfactory concept of the Shinarump conglomerate is that of a basal conglomerate of the Chinle formation.

The conditions mentioned in the above excerpt were observed in the Bow Knot area. The ore-bearing lenses occur at or near the bottom of the Shinarump and were observed to be from a few inches to as much

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1/ Baker, A. A., Geology of the Green River Desert-Cataract Canyon Region, Emery, Wayne, and Garfield Counties, Utah: U. S. Geol. Sur. Bull. 951, pp. 58-59, 1946.

as 6 feet thick. The corporation representatives reported one face of ore to be 21 feet thick. This section was sampled by a consulting geologist and was taken from the Willow No. 1 claim. The average thickness of the ore-bearing beds sampled in the adits on Danise No. 1 claim is 4.1 feet. The mineralogy of the samples and a detailed description of the formation in the areas sampled is included in the report written by the geologist member of the field team.

MINABLE ORE RESERVES

The minor amount of exploration that has been done in the Bow Knot area makes an estimate of total minable ore reserves difficult. However, an estimate of ore established by the corporation's work on the Danise No. 1 claim is indicative of what may be expected in future exploration. An estimate of total inferred and indicated ores was made by the U. S. Geological Survey and reported in their report.

Figure 4 shows the assumptions made regarding the size of the indicated ore body developed by the two drifts. The weighted assay values were calculated from samples taken by the DMA team and the corporation. The calculations below show the ore body to contain approximately 1,200 tons of ore with a weighted average assay value of 0.35 percent U_3O_8 and an average thickness of 4.1 feet. Assuming that the U_3O_8 contained is paid for at the rate of $3.50 per pound, the ore has a value of approximately $29,400. This is based on non-payment of the bonus offered by the Atomic Energy Commission

as announced in "Domestic Uranium Program Circular 6" of June 27, 1951. This property probably would qualify for the bonus, thus the total price paid would be as much as $7.00 per pound.

Calculations used in determining the weighted assay value of the ores and the tonnage follow:

BM.	(5.5'	x 0.39	=	1.45	Note: BM indicates samples by Bureau of Mines. EX indicates assay results supplied by the Excalibur Corp.
	(3.3'	x 1.54	=	5.08	
	(4.2'	x .03	=	0.13	
	(1.5'	x .85	=	1.27	
EX.	(8.0'	x .13	=	1.04	
	(2.5'	x .31	=	0.78	
	(2.5'	x .29	=	0.73	
	(5.0'	x .22	=	1.10	

$\frac{32.5}{8} = 4.1'$ Avg. thickness

$\frac{11.58}{32.5'} = 0.35\%\ U_3O_8$, Wtd. Avg.

Tonnage calc:

Orebody, 45' wide x 90' long x 4.1 thick = 16,605 cu. ft.

Tons = $\frac{16,605 \text{ cu. ft.}}{13 \text{ cu. ft./ton}}$ = 1,270 tons in ore body (1,200 tons used in subsequent calc.)

Assuming 60' of dft. required to develop this tonnage,

$\frac{1,200 \text{ ton}}{60'}$ = 20 tons developed/ft. of dft.

Assuming wtd. avg. grade 0.35% U_3O_8,

0.35 x 20# = 7# U_3O_8/ton

Assuming $3.50/# paid for U_3O_8,

7# x $3.50 = $24.50/ton gross value

and 1,200 tons x $24.50 = $29,400 total value of ore body.

PRESENT STATUS

Direct exploration accomplished to the date of the examination consisted mainly of clearing talus from faces and driving adits in areas of greatest radiometric activity. Other work accomplished in support of the exploration includes constructing three air strips, preparing a rough camp, building a boat dock, and constructing approximately 5 miles of access road, as yet incomplete.

The main adits are on the Danise No. 1 claim and are shown on figure 2. Short adits have been driven on the Willow No. 1 claim and on the Aileen No. 1 claim. Clearing of the outcrop over short lengths has been done on other claims in the area.

Mining equipment at the property at the time of the examination consisted of:

2 compressors, portable, rubber-tired, 210 cfm., new and in good repair
2 jackhammers, dry, with steel, hose, oil bottles, and other accessories
3 Geiger counters
Miscellaneous hand tools, wheelbarrows, etc.

Equipment used in support of the mining operation includes:

2 horses used in clearing brush for air strips, camps and trails
2 boats with outboard motors for transportation on the project
1 steel barge for transportation of equipment from Green River, Utah
1 airplane "Super-cub," 125 h.p. This plane is used to supply the camp with food, powder, and light machine parts. Also used to transport men to and from Green River, Utah.
Miscellaneous camp and cooking equipment for 10 men.

Equipment being used on the access road at the time of the examination consisted of the following:

1 compressor, portable, probably 310 cfm., rubber tired
3 jackhammers, dry, with hose and accessories
2 wagon drills (percussion air drills, size not determined)
1 bulldozer, H.D.-19
1 bulldozer, D-4
1 road patrol, self-powered

This equipment is now at the head of Spring Canyon, but the corporation plans to use the bulldozers in the Bow Knot Bend area as soon as it is possible to move them over the as yet unfinished access road.

The company also owns a Navion, 4-place airplane for travel other than into the Bow Knot area. This airplane is not able to land at the property because of the short, rough air strips in the canyon.

PROJECT PROPOSALS AND COSTS

Representatives of the corporation in their application presented no definite plan of exploration other than clearing outcrops and driving adits on the highest grade exposures. Their estimate of the cost of the work, assumed to cover 3 months and to require the following equipment and personnel, follows:

20 miners, 25 day a month basis, $15 per day	$24,000
2 supervisors, 1-$500 per month and 1-$600 per month	3,300
access road construction	15,000
2 compressors	5,300
1 jackhammer	350
1 wagon drill	350
1 "Winch truck"	3,500
1 bulldozer, D-4	7,500
aircraft and truck rental	2,500
camp equipment and commissary	1,000
Total of corporation's proposal	$62,800

The figures apparently are rounded on some items for the multiplication gives a different figure than that presented. It will be noted that many items important to a mining operation have been omitted.

A program to properly explore the areas upon which some work has been done may be summarized as follows:

(Note: The terrain precludes any drilling program, thus exploration by adits and surface trenching or actual clearing of the outcrop, is proposed.)

Aileen No. 1 claim

Two 100-foot adits, 100 feet apart and one crosscut 50 feet from the portals, plus two stubs for slusher mucking of the crosscut, 320 feet at $35 per foot	$11,200
Equipment on a rental basis for 40 days (1-1/3 months):	
1 compressor, 210 cfm., portable, 1-1/3 months at $290 per month	386
2 jackhammers, mounted with accessories, 1-1/3 months at $68.75 per month x 2	183
1 receiver, 30" x 8', 1-1/3 months at $33 per month	44
2 cars, mine, 24 cu. ft. 1-1/3 months at $26 per month x 2	70
1 slusher hoist, double drum, air, 1-1/3 months at $93.25 per month	124
Equipment and materials on a purchase basis:	
Pipe, air and water, approximately 250 feet of each	140
Track, 250 feet, 16-pound rail, based on $693.86 per thousand feet	173
Miscellaneous equipment, hand tools, etc.	200
Total rental and purchase of equipment	$ 1,320
Ore bin construction	750
Direct drifting costs as listed above	11,200
Total cost of exploration on Aileen No. 1 claim	$13,270

Willow No. 1 claim

A similar program is suggested in this area as outlined above and the same total cost is assumed	$13,270

Danise No. 1 claim

On this claim it is assumed that advantage will be taken of the adits already driven, thus it is proposed that two 100-foot adits, 40 feet apart, be driven with a crosscut at 50 feet and two stubs for slusher mucking of the crosscut, a total of 260 feet at $35 per foot.	$9,100
Rental and purchase of equipment approximately the same as other areas	1,320
Construction of ore bin----------	750
Total cost of exploration on Danise No. 1 claim----	$11,170

Surface Trenching of Outcrop to Expose Faces of Ore

5,000 feet accomplished at 200 feet per day = 25 days, 25 days of 8 hours per day = 200 hours. 200 hours at $11.00 per hour----------	$ 2,200

Other Expenses Supporting the Exploration Program

Additional bulldozing of roads to portals of adits, clearing areas near portals and other work, 100 hours at $11.00	$ 1,100
Access road to project (estimate of the corporation)----	15,000
Camp and commissary----------	5,000
Ferry for crossing the Green River----------	2,500
Engineering and sampling----------	1,500
Aircraft and truck rental----------	2,500
Miscellaneous pumps, water, and oil storage tanks, etc.-	1,500
Total of all items for project as outlined---------	$69,010

New mining equipment and material required for the proposed exploration other than that obtained on a rental basis may be approximately as follows:

Conversion parts for 3 jackhammers to convert machines to wet machines.
Hand tools such as shovels, picks, track tools, wrenches, greasing equipment, bars, and welding equipment must be purchased.

Other new equipment or facilities used in support of the mining and exploration is listed as follows:

Camp and commissary.
Cooking and dining facilities must be provided for a crew of 26 to 30 men. No buildings existed at the site when the examination was made; cooking facilities were primitive and the crew slept in the open.
Ferry installation near Danise No. 1 claim. No method exists for crossing the Green River at this point.

Allowance for the cost of the above items was made in a foregoing paragraph.

At the time of the examination a barge at Green River provided the only transportation for even medium weight equipment. The compressors in use on the property had been brought in singly by a steel barge built by the corporation and powered by two outboard motors. The trip from Ruby ranch below Green River, Utah, required the major part of 2 days.

The light airplane serves to supply the camp with food, explosives, and light machine parts as well as being the only practical way for employees to enter and leave the area. Flying into or out of the canyon

is attempted only between 4:00 a.m. and about 8:30 a.m. because of the unpredictable wind conditions which arise after the later hour. Air strips have been built on a large, tree-covered bar a few feet above the river. One such strip is shown in figure 5.

An access road is being built into the Bow Knot Bend area via Spring Canyon. Figures 3 and 5 indicate the relation of Spring Canyon to the area of exploration. At the time of examination the road was being built down over the massive, cliff-forming Wingate formation. The proposed route carries the road down Spring Canyon to its junction with the Green River, thence down the Green River to the proposed ferry site opposite the Danise No. 1 claim where a favorable crossing has been located. As mentioned in a foregoing paragraph, the corporation's estimate of the cost of this road is $15,000.

In the exploration and road building accomplished to the present time, men have been procured from the construction projects of the Thornburg Construction Co. and from the coal mining area near Paonia, Colo. No difficulty is anticipated in securing 24 to 30 men required for the proposed exploration from the same areas or from the uranium producing districts of western Colorado.

Electric power for lighting, refrigeration, or power shop equipment must be generated at the site by gasoline-driven generators.

The nearest power source is the municipally owned plant at Green River and a line to this plant is impractical at present.

Water for mining use may be pumped from the Green River. Water for culinary purposes may also be taken from the river, but some method for its purification should be provided. Heretofore, camp water was obtained from the river and used after the mud had settled sufficiently. Some type of water purification will be a necessity at the camp if best efficiency and morale is to be maintained.

PRODUCTION PLAN

Although some of the various preparatory phases of the proposed project may be carried on simultaneously, of greatest importance is the completion of the road into the area to bring in the bulldozer for preparation of mining sites and the camp area. Some material and equipment may be barged down the river, but the majority must be shipped by truck.

Preparation of the camp and construction of the proposed ferry probably will require 15 days. Some of this work can be done before the road is completed with material barged down the river.

Actual exploratory work, as outlined in a foregoing paragraph, is estimated to consume 40 days. This cannot begin until most of the preparatory work and camp installation is completed; thus it is estimated that the total project will require 80 to 90 days.

Little can be said relative to rate of production, mining methods, or costs since the deposit is so meagerly explored and few criteria exist for mining in the Shinarump formation. The thickness of the bed varies considerably and it is certain that either selective mining or sorting will be necessary to maintain the grade. Observations on the Danise No. 1 claim indicate that the beds of the formation break well when blasted and stand without timber.

Some mining method adapted to flat bedded deposits may be applied in the Bow Knot Bend area though changed to allow selective mining of the mineralized and barren beds. A plan will be evolved more readily after conditions are observed in the exploratory drifts.

The ores will be marketed at one of the following qualified uranium mills or ore-buying stations:

American Smelting and Refining Co.
Monticello, Utah

Climax Uranium Co.
Grand Junction, Colorado

Vitro Chemical Co.
600 West 33rd South
Salt Lake City, Utah

Amenability tests by a laboratory supervised by the Atomic Energy Commission show that the ores are amenable to concentration by an acid leach, thus indicating that the ores probably will be shipped to the Vitro Chemical Co. plant in Salt Lake City, Utah.

SUMMARY (COST OF PROJECT)

A recapitulation of the cost of the proposed exploratory program from the section on project proposals follows:

Mining and surface exploration	$39,910
Activities supporting the actual exploration (camp, road, ferry, etc.)	29,100
Total cost of the project	$69,010

The above amount represents the total expenditure required to complete the exploratory program as outlined in earlier paragraphs. No sound estimate can be made of either actual operating costs nor possible profit until the exploratory program is complete to indicate the areal extent of the ore bodies, the minable thickness, and possible discontinuity, since the deposit is lensatic in character.

Calculations in the section on minable ore reserves show that in the ore body on the Danise No. 1 claim the ores have a minimum gross value of $24.50 per ton and, as pointed out in a foregoing paragraph, may have a value of as much as $49.00 per ton. Mining costs cannot be determined in this phase of the operation, but in consideration of the transportation allowance of $.06 per ton mile made by the Atomic Energy Commission, it is reasonable to believe that mining such ore should be a profitable operation.

PROPOSED FINANCING

The physical assets owned by the corporation and the financial statement attached to the application for DMA exploratory loan indicate the corporation's ability to furnish required $6,901 under DMA regulations.

CONCLUSIONS AND RECOMMENDATIONS

The results of the exploratory adits on the Danise No. 1 claim and surface samples on other claims of the group lead to the conclusion that Bow Knot Bend area of the Green River has potentialities as a uranium producing area.

In view of the above conclusion and the aggressive initiative shown by the corporation in their work heretofore, it is recommended that an exploratory loan of $69,010 be granted to the Excalibur Uranium Corp. to carry out the exploratory program outlined herein.

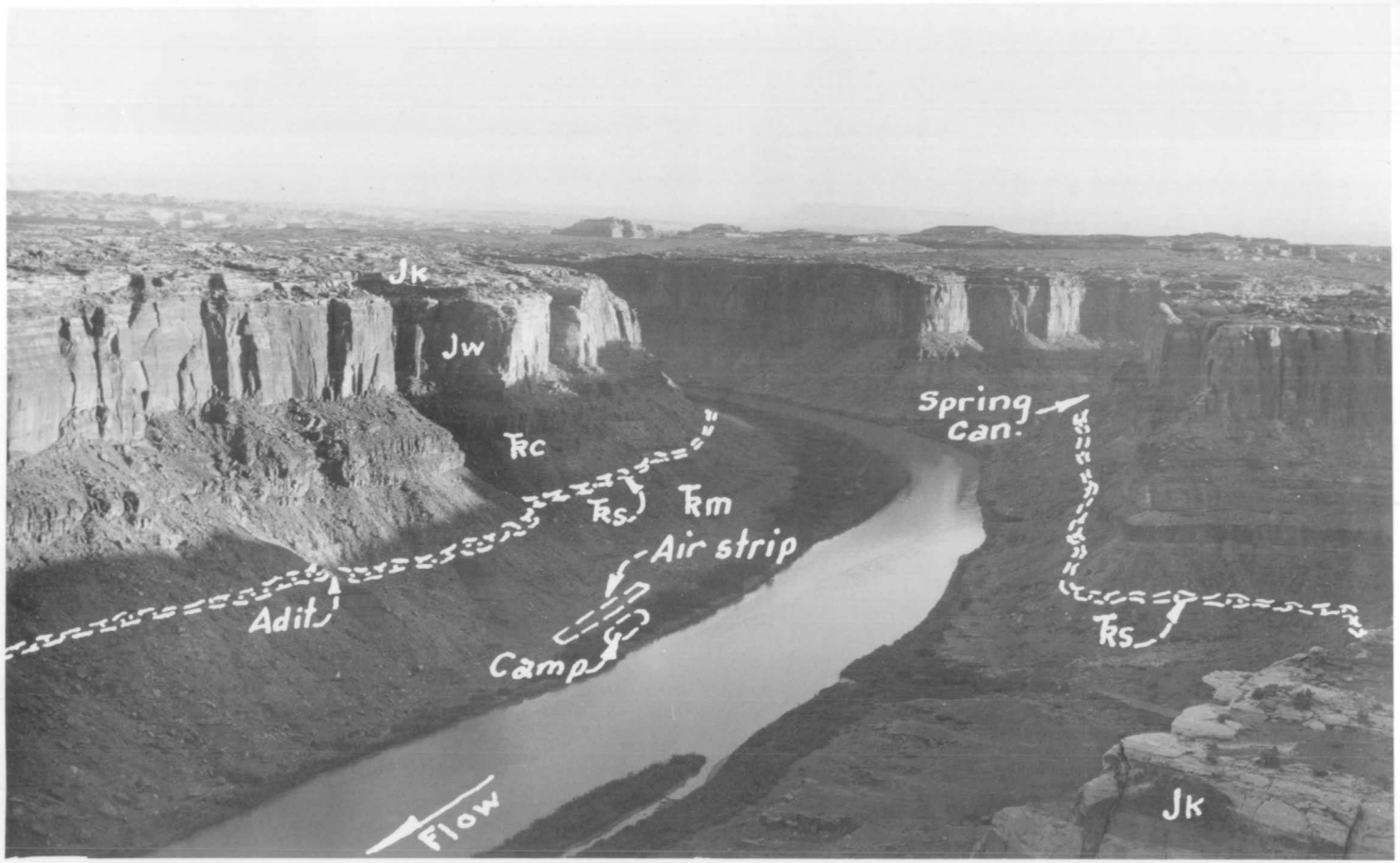


Fig. 5 Aerial view of the Green River in the Bow Knot Bend area looking northwestwardly showing stratigraphy and camp location. Jk is Kayenta formation, Jw is Wingate formation, Trc is Chinle formation, Trs is Shinarump formation and the ore horizon, and Trm is Moenkopi formation.

Fig. 6. View of portals of adits on Danise No. 1 claim. Bedded character of the deposit may be seen behind two figures on dump.

LAW OFFICES
HOLLAND & HART
EQUITABLE BUILDING
DENVER 2, COLORADO

JOSIAH G. HOLLAND
STEPHEN H. HART
JOHN L. J. HART
PETER H. DOMINICK
WILLIAM D. EMBREE, JR.
PATRICK M. WESTFELDT
CLAUDE M. MAER, JR.
ROBERT P. DAVISON
JOHN FLEMING KELLY
DONALD W. ROE

July 27, 1951

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG 3 1951

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG 6 1951
LANDON F. STROBEL
Executive Secretary

Defense Minerals Administration
Department of the Interior
Washington 25, D. C.

Re: Excalibur Uranium Corporation DMA 1631

Gentlemen:

On May 15, 1951, the above-named company filed an Application for Exploration Loan pursuant to Mineral Order 5 under Defense Production Act of 1950 which was given the File No. of DMA 1631. This original application was based on preliminary estimated costs in an amount of $62,500.

Since that time, initial exploration work has been conducted by the company to the best of its financial ability and it has become apparent that the amount needed adequately to explore the large area involved will be substantially in excess of the amount requested. Adequate exploration will entail a substantial amount of rough trail construction in order to explore the three ore-bearing levels, exploration drifts of 50 feet or more in length in at least 8 additional locations in the area, construction of a barge and cable system in order to transport machinery and equipment across the Green River

camping facilities for the miners, prospectors, surveyors, geologists and superintendents, and additional equipment in the way of compressors, jackhammers, horizontal drilling equipment, bulldozers, motor generators, etc., none of which were contemplated in the original application.

To point up this need, we submit herewith a supplemental list of additional estimated costs and expenses.

As reasons for granting the additional loan on this area, we refer you to the report of your agent Mr. Osterstock who examined the area in connection with our original application. In addition thereto, two of the drifts already driven have shown presence of primary uranium ore, either pitchblende or uranite, a report of which has been given to the Atomic Energy Commission in Grand Junction. Mr. Leo F. Coady, our consulting mineralogist of Grand Junction, Colorado, has estimated that there is a good possibility (and our miners experienced in uranium mining have indicated that there is a probability) that the rolls of uranium ore already discovered continue around the entire perimeter of the area, varying, of course, in grade and quality from point to point, but continuing to be com-

mercial grade ore at all sections. Proof of such can only be obtained by additional drifts and if found to be true, would indicate that the company in this area alone has located and staked claims encompassing approximately 22 to 24 miles of canyon containing commercial grade uranium ore.

Sincerely yours,

EXCALIBUR URANIUM CORPORATION

By Fred B. Lomb Jr.
President

ESTIMATE SUPPLEMENTAL TO DMA 1631

Costs, expenses and equipment for additional six-month's period of exploration in Bow Knot Area

Question 23

(a)	10 drillers @ $15 per day	$ 3750 per mo.	$22,500
	20 muckers @ $12 per day	6000 per mo.	36,000
(b)	2 Foremen @ $500 per mo.	1000 per mo.	6,000
	1 Superintendent @ $600 per mo.	600 per mo.	3,600
(c)	none		
(d)	Increased camping facilities at present location		10,000
	Installation of a barge across the river		25,000
(e)	One 600-foot compressor		14,800
	26,400 feet of pipe @ $.52 per ft.		13,728
	6 Jackhammers, steel, bits, and jack-legs		6,100
	One large bulldozer		20,000
(f)	none		
(g)	One 6x6 fuel truck, 350 hours @ $5 per hour		1,750
(h)	Dynamite, fuse, caps, fuel, and all other supplies		16,000
(i)	One diesel driven water pump		7,500
			$182,978

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

224 New Customhouse
Denver, Colorado

June 28, 1951

U. S. GEOLOGICAL SURVEY
RECEIVED
JUL 2 1951
MINERAL DEPOSITS BRANCH

Memorandum

To: Ralph Roberts (with brochure)

S. R. Wilson

(Through Chief, Mining Division)

From: DMA Field Team, Region IV

Subject: DMA Docket 1631, Excalibur Uranium Corporation, Location of mine in Bow Knot Area of the Green River, Utah

Herewith is the brochure and the examiners review of the application on the above docket.

The same procedure should be followed in making this examination as those already submitted to you.

P. T. Allsman, Alternuate

A. H. Koschmann

Attachments

DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON, D. C.

REGIONAL DIRECTOR'S
OFFICE
REGION IV
JUN 25 1951
BUREAU OF MINES
DENVER, COLORADO

JUN 21 1951

Mr. J. H. East, Jr.
224 New Customhouse Bldg.
Denver 2, Colorado

Dear Sir:

We attach "Review of Application for Exploration Assistance" on:

Docket No. 1631

Commodity Uranium

Applicant Excalibur Uranium Corp.

Please expedite the consideration of this application with particular reference to the points raised in the attached "Review."

Very truly yours,

Tom Lyon

Tom Lyon, Chairman
Coordinating Committee

Lowell B. Moon
For Bureau of Mines

Edwin T. McKnight
For Geological Survey

Defense Minerals Administration

Review of Application for Exploration Assistance

Docket No. DMA-1631

Commodity Uranium

Total Amount 62800

Govt. Participation 56,520

1. Name and Address of Applicant Excalibur Uranium Corp.

2. Location of Property Burr Knot Area of the Green River in Utah

3. Mineral or metal Uranium Is it listed in Section 9 of MO-5?

If not, application will be rejected.

4. Geologic probability of discovery -- based on data in application (question #16, 17, 18, 20 and 22).*

Mines or Survey reports, etc., do you rate chances:

a) Good

b) ~~Poor~~ Fair ✓

c) None

d) Don't know -- needs field examination ✓

e) Is there an alternative and favorable project? (If so, attach an explanation)

5. Is the applicant's right to the property clearly stated? no (question 5, 6, 7)

6. If applicant is a lessee, is a copy of the lease attached?

Does the lease have sufficient time to run to cover a future productive period?

*Question numbers are those of MF-103

7. Are subordination agreements necessary? _____

a) MF-201? _____

b) MF-202 _____

8. From the data presented, does the proposed project appear feasible from the point of view of:

a) Available manpower _____

b) Equipment and supplies _____
(question 14 plus general knowledge of availability)

c) Accessibility (question 12) ? Road making required

d) Water (question 13) _____

e) Power (question 13) _____

Is a field check needed on any of these points? _____

9. Does the experience of the applicant appear to be adequate to assure that he can properly conduct the proposed project? (question 4) _____

_____

Is a field check needed on this point? _____

10. Exhibit A. (questions 21 and 22)

a) Is the project adequately described? _____

If not, are there sufficient data given so that you can describe the project? _____ If so, attach a draft.

b) Is there an adequate map or sketch of the proposed work? _____

_____

c) Is the proposed work "exploration" under the definition of Section 8, MO-5? _____

If not, what part of it is? _____

_____

_____

_____

Is this part a worthwhile exploration project? yes

d) Are the cost estimates detailed? _____

Can they be summarized, as on page 2 of Procedural Instruction 5-A, from the available data? _____ If so, attach a draft.

e) Are the cost estimates reasonable? _____

f) Should more information be requested from applicant? use the telephone

g) Is a field examination necessary to complete Exhibit A? _____

11. Exhibit B (question 23-d)

a) Is it applicable? _____

b) If so, are sufficient data furnished? _____ If so, attach a draft.

c) Is a field check needed? _____

12. Exhibit C (question 23-e, f and g)

a) Is it applicable? _____

b) Sufficient data? _____ If so, attach a draft.

c) Are rents and charges reasonable? _____

d) Is a field check needed? _____

13. Exhibit D (question 23-a,b)

a) Are there sufficient data? _____

b) Is the schedule adequate for the work proposed? _____

c) Is the schedule excessive for the work proposed? _____

d) Are the proposed wages and salaries reasonable? _____

e) Is a field check needed? _____

14. Exhibit E (question 23-e)

a) Is it applicable? _____

b) Sufficient data? _____

c) Reasonable? _____

d) Field check needed? _____

15. In your judgment, can the proposed work be done in the proposed time? _____

(All exploration must be completed within two years.)

16. If field examination is not needed, attach your recommendation.

17. If field examination is needed, do you have any special instructions for the field team not indicated by your answers to the foregoing questions? Should be referred to field team, which should have all information obtainable from AEC at Grand Junction. Area is worthy of investigation.

Reviewed by: J. B. Stokes

Date 6/18/1951

FILE COPY
SURNAME:

Bourret
McKnight for Rove
Moon

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

June 19, 1951

Docked + letter mailed 6/21/51

Mr. Harry B. Combs
Excalibur Uranium Corp.
127 Vine Street
Denver, Colorado

Dear Mr. Combs:

Your application, Docket DMA-1631 for exploration project in the amount of $62,800 has been received by the Minor and Rare Metals Branch of the Supply Division.

Before a decision can be reached on your request, we find it is necessary to obtain additional information on your property. Your application therefore is being referred to the office of the Executive Officer of DMA field team IV, Mr. J. H. East, Jr., 224 New Customhouse Building, Denver 2, Colorado, with the request that the needed information be supplied to us.

Yours very truly,

Tom Lyon, Director
Supply Division

WBourret/mh
cc: Adm. Read. File
Strobel
Lyon
Field Team IV
Bourret
Files

FILE COPY
SURNAME:

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

June 18, 1951

Mr. Harry B. Combs
President
Excalibur Uranium Corp.
Vorbeck Building
Grand Junction, Colorado

Subject: DMA-1631X
Re: Exploration Loan
Bow-Knot

My dear Mr. Combs:

Receipt is acknowledged of your application and attachments of May 15, 1951 for an exploration loan under the Defense Production Act of 1950.

The application was assigned Docket Number DMA-1631X and was referred to Mr. Weston G. Bourret, Acting Chief, Minor and Rare Metals Branch on June 11, 1951.

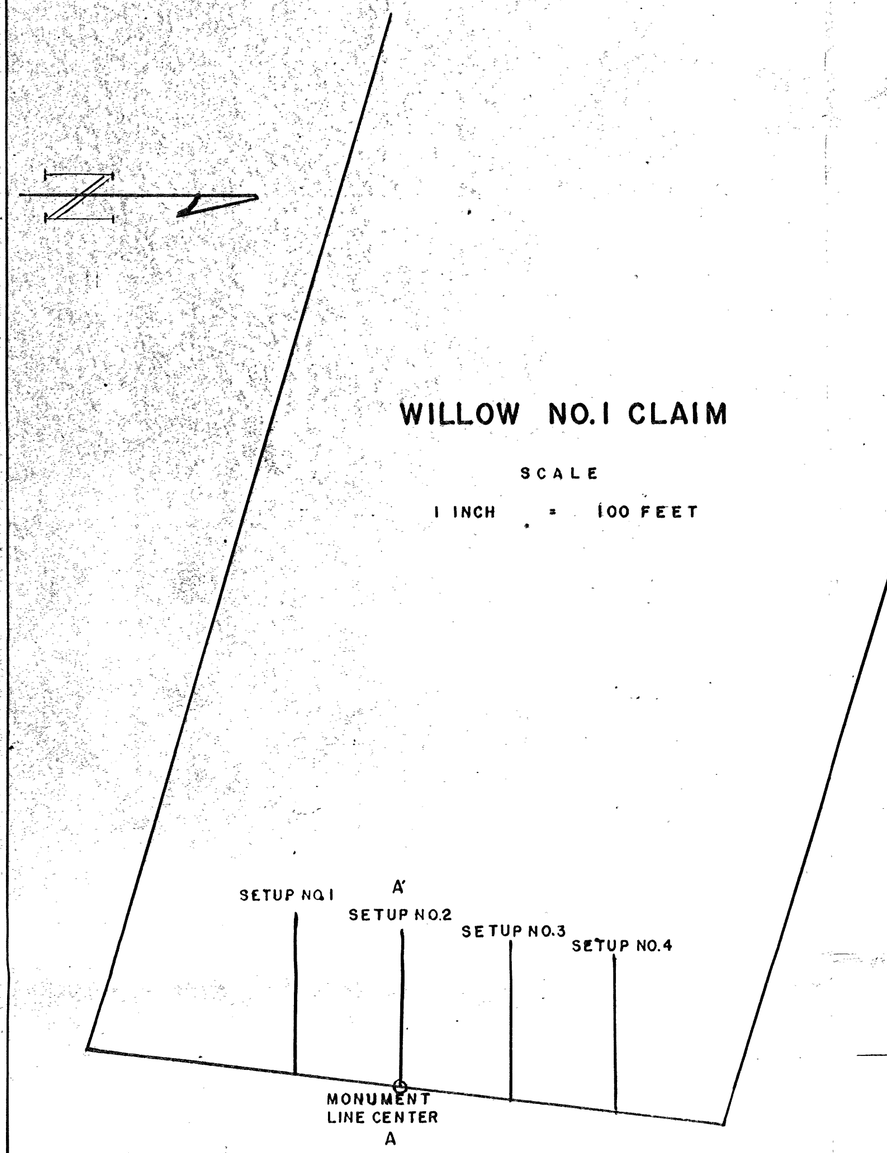
In any future correspondence relating to your application, kindly refer to DMA-1631X.

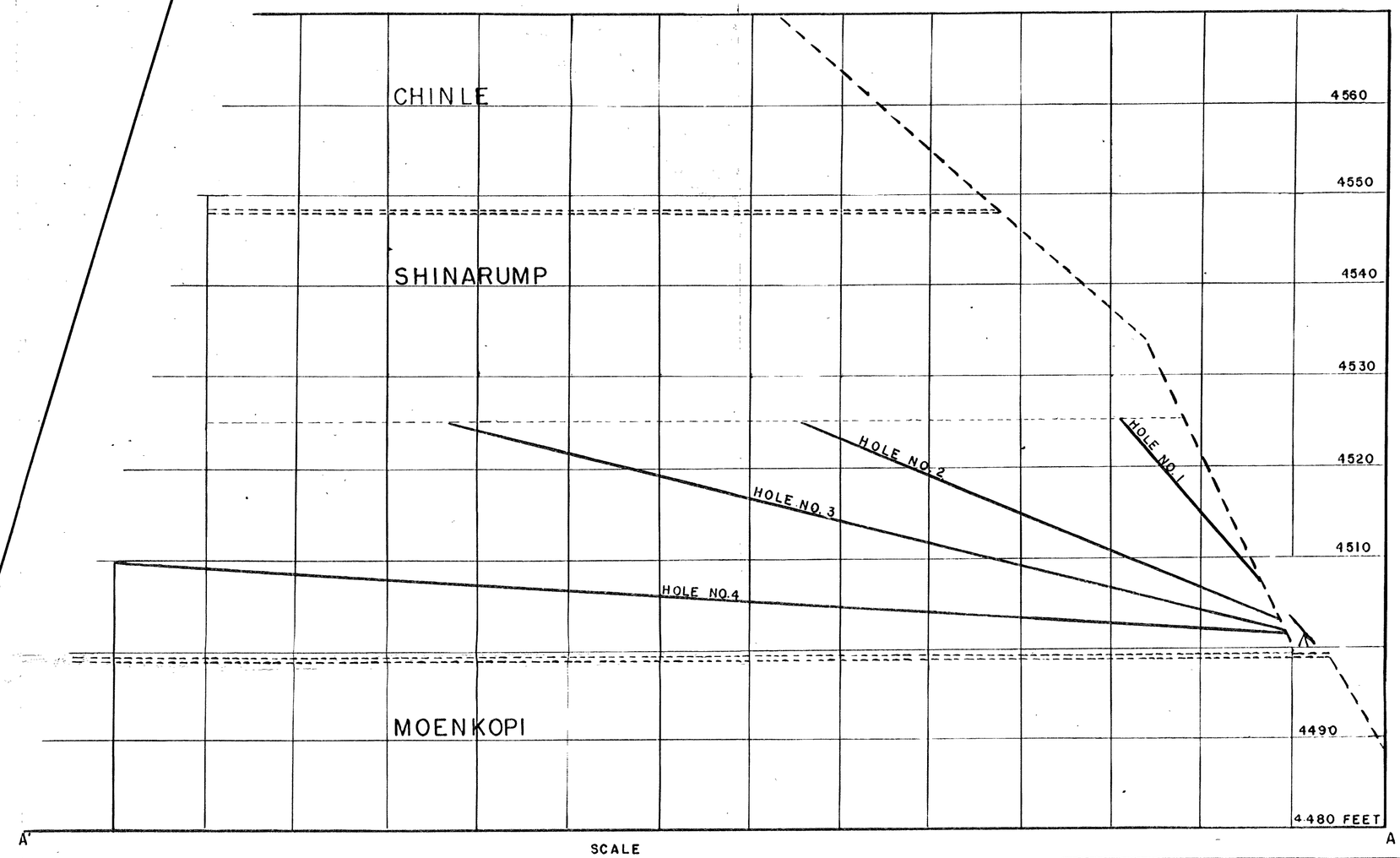
Sincerely yours,

LANDON F. STROBEL

Landon F. Strobel
Executive Secretary

LFSTROBEL:js
cc: Strobel-2
>Files
Bourret
Lyon





SCALE
1 INCH = 10 FEET

SECTION OF SETUP NO. 1

SETUPS 2,3,4 TO BE DRILLED IN SAME SECTIONAL PLAN AS SETUP NO. 1

HOLE NO. 1 - 23 FEET - STRIKE W. - DIP + 55°

HOLE NO. 2 - 57 FEET - STRIKE W. - DIP + 30°

HOLE NO. 3 - 95 FEET - STRIKE W. - DIP + 20°

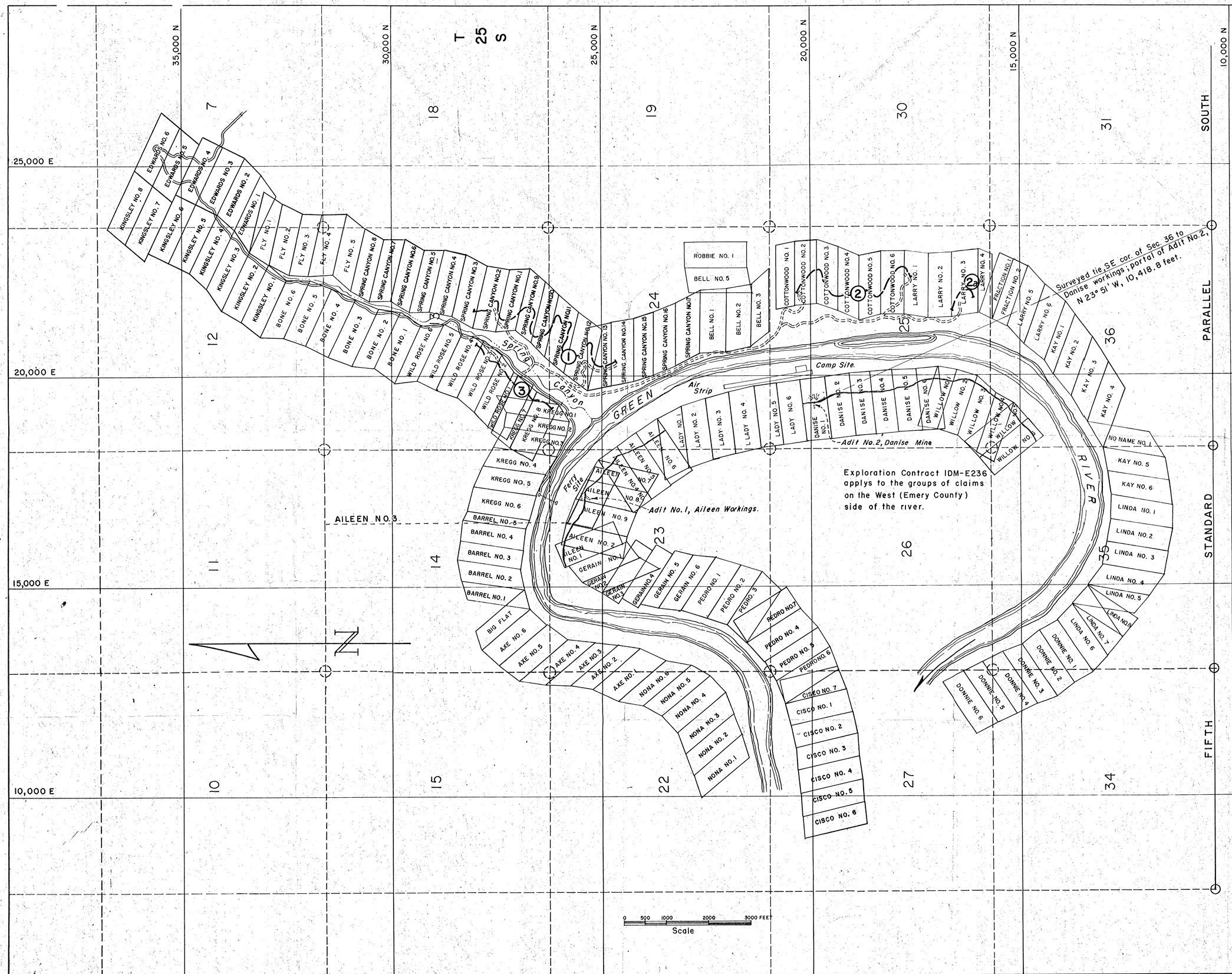
HOLE NO. 4 - 130 FEET - STRIKE W. - DIP + 10°

EXCALIBUR URANIUM CORP.

GRAND JUNCTION COLORADO.

PLAN MAP
OF
PROPOSED DRILL HOLE LOCATIONS

DRAWN: W.D.H. | DATE: 2-7-53



LEGEND

Aileen No. 3 claim area relocated May 31, 1951, as Aileen claims 7, 8, 9

Rim stripping areas under DMEA Contract Idm-E236

NOTE

Map annotated June 7, 1952.
" " October 15, 1952

EXCALIBUR URANIUM CORPORATION
GRAND JUNCTION, COLORADO

BOW KNOT BEND AREA

CLAIM MAP

GRAND AND EMERY COUNTIES, UTAH

ENG: ROBISON	APPROVED:	FILE:
DRAWN: "	DATE:	
TRACED: TRENT	DATE:	