PROBE SURVEY OF WAGON DRILL HOLES
September, 1954

DMEA:
Docket No. 2857
Contract No. IDM-E517

Claims:
Rip Snorter
Morning Glory
Montana #1
Matias Peak #1

| Hole No. | Total Depth in ft. | Probed Depth in ft. | Reading | Background |
|---|---|---|---|---|
| 9 | 150 | 150 | 4/5 | 4/5 |
| 10 | 120 | 120 | 4/5 | 4/5 |
| 11 | 90 | 90 | 6/5 | 6/5 |
| 12 | 120 | 120 | 4/5 | 4/5 |
| 13 | 130 | 130 | 4/5 | 4/5 |
| 14 | 120 | 120 | 4/5 | 4/5 |
| 15 | 150 | 150 | 5/5 | 4/5 |
| 16 | 160 | 160 | 6/5 | 4/5 |
| 17 | 143 | 143 | 4/5 | 4/5 |
| 18 | 160 | 160 | 4/5 | 4/5 |
| 19 | 162 | 162 | 7/5 | 4/5 |
| 20 | 40 | 40 | 4/5 | 4/5 |
| 21 | 100 | 100 | 8/5 | 4/5 |
| 22 | 70 | 70 | 8/5 | 4/5 |
| 23 | 70 | 70 | 6/5 | 4/5 |
| 24 | 70 | 70 | 8/5 | 4/5 |
| 25 | 90 | 90 | 4/5 | 4/5 |
| 26 | 70 | 70 | 5/5 | 4/5 |
| 27 | 70 | 70 | 4/5 | 4/5 |

285? Idn.-E 517

OR. TUNNELS, SULLIVAN, & BOYLE

Maps with MF-104's

Division Copy

# ASSIGNMENT OF CONTRACT

WHEREAS, C. G. Ortmayer, R. G. Sullivan, and C. R. Boyle, partners, (hereinafter called the "Assignor"), entered into Exploration Project Contract Idm-E517 (Docket No. DMEA-2857), dated May 7, 1953, (hereinafter called the "Contract"); and

WHEREAS, Sodak Uranium and Mining Company, Inc., a State of Delaware corporation, whose address is Box 330, Edgemont, South Dakota (hereinafter called the "Assignee"), has acquired the Assignor's interest in the land which is the subject of the Contract and the Assignee desires to complete the work under the Contract;

NOW THEREFORE, the Assignor, in consideration of the sum of One Dollar ($1.00) and other good and valuable consideration received from the Assignee does hereby assign, transfer, and convey to the Assignee all of its right, title, and interest in the Contract Provided, That the Government shall make payment to the Assignor for all work performed prior to April 1, 1955, and upon payment thereof the Government shall be and is hereby released by the Assignor from all claims under the Contract.

The Assignor consents to all future amendments and assignments of the Contract and waives notice thereof.

This Assignment is subject to the execution by the Assignee of the acceptance form set forth below and to the written consent of the Government.

Dated this 6 day of June, 1955.

ASSIGNOR:

C G Ortmayer
C. G. Ortmayer, Partner

R G Sullivan
R. G. Sullivan, Partner

C R Boyle
C. R. Boyle, Partner

ASSIGNEE'S ACCEPTANCE

The Assignee, Sodak Uranium and Mining Company, Inc., hereby accepts the above Assignment and agrees to be bound by the terms, provisions, and conditions of the Contract.

Dated this 17 day of June, 1955.

SODAK URANIUM AND MINING COMPANY, INC.

By C. R. Boyle, Pres.

I, Robert Lawson, certify that I am the Secretary of the corporation named herein; that C R Boyle who signed this instrument on behalf of the corporation, was then President of said corporation; that said instrument was duly signed for and in behalf of said corporation by authority of its governing body, and is within the scope of its corporate powers.

Robert Lawson (Corporate Seal)

GOVERNMENT'S CONSENT

The Government, this 31st day of May, 1955, hereby consents to the above Assignment without releasing the Assignor, C. G. Ortmayer, R. G. Sullivan, and C. R. Boyle, partners, from any of the terms, provisions, and conditions of the Contract.

THE UNITED STATES OF AMERICA

By O D McKendry
Administrator, Defense
Minerals Exploration
Administration

Chamberlin
Porter
Holland
Zillgitt
Selfridge

Division copy

RECEIVED
JUL 18 1955

EXPLORATION PROJECT CONTRACT
ORTMAYER, SULLIVAN, AND BOYLE
DOCKET NO. DMEA-2857

AMENDMENT NO. 4

Contract dated May 7, 1953, Docket No. DMEA-2857, Contract No. Idm-E517, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, and the undersigned C. G. Ortmayer, R. G. Sullivan, and C. R. Boyle, partners, is hereby amended as follows:

In Article 3 the time allowed for the completion of the work is extended to October 1, 1955.

This amendment shall not be construed to increase the estimated total cost of the project, the aggregate total amount which the Government may be required to contribute, nor the agreed unit cost of any item of work.

Dated May 25, 1955.

THE UNITED STATES OF AMERICA

C. F. Mitchendorf
Administrator, Defense Minerals
Exploration Administration

J. Krouse
Ellis
Chandler
Selfridge

H. F. Flood
"Appd. Sol. OM."

C. G. Ortmayer
C. G. ORTMAYER, Partner

R. G. Sullivan
R. G. SULLIVAN, Partner

C. R. Boyle
C. R. BOYLE, Partner

AMENDMENT NO. 3

Docket DMEA 2857, contract Idm E-517, dated May 7, 1953, between the United States of America and C. G. Ortmayer, R. G. Sullivan, and C. R. Boyle, Partners, amended on May 4, 1954, and again on July 10, 1954, is further amended as follows:

Article 3, Exploration Project. Completion date is extended to May 7, 1955.

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 cost which the Government may pay under the provisions of the contract and its amendments.

Dated: November 2, 1954

UNITED STATES OF AMERICA

By A. B. Needham
A. B. NEEDHAM
Executive Officer, Field Team, Region V

By C. G. Ortmayer
C. G. ORTMAYER, Partner

By R. G. Sullivan
R. G. SULLIVAN, Partner

By C. R. Boyle
C. R. BOYLE, Partner

## AGREED UNIT COSTS

### STAGE I

**Phase I**

| | | |
|---|---|---|
| 8,596.5 feet of wagon-drill hole @ $1.04/ft/ | $ 8,940.36 | |
| 14 Sample analyses, including freight and postage, @ $4.00/ea. | 56.00 | $ 8,996.36 |

**Phase II**

| | | |
|---|---|---|
| The first 3,903.5 feet of wagon-drill hole @ $1.04/ft. | 4,059.64 | |
| 11,696.5 feet of wagon-drill hole @ $1.01/ft. | 11,813.46 | |
| 286 Sample analyses, including freight and postage, @ $4.00/ea. | 1,144.00 | $17,017.10 |
| Total Stage I | | $26,013.46 |

### STAGE II

| | |
|---|---|
| 12,803.5 feet of wagon-drill hole @ $1.01/ft. | $12,931.54 |
| Estimated Total Cost of Project | $38,945.00 |
| Government Participation @ 90% | $35,050.50 |

This amendment shall not be construed to increase the estimated total cost of the project, the aggregate total amount which the Government may be required to contribute, nor the agreed unit cost of any item of work.

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

By G. W. Methvin

Administrator, Defense Minerals Exploration Administration

C. G. Ortmayer, Partner

R. G. Sullivan, Partner

C. R. Boyle, Partner

Robert Talbot

AMENDMENT NO. 1

Docket DMEA 2857, Contract Idm E-517, dated May 7, 1953, between the United States of America and C. G. Ortmayer, R. G. Sullivan, and C. R. Boyle, Partners, is hereby amended as follows:

Article 3, Exploration Project. Delete the words "12 months" and substitute the words "18 months", which makes completion date November 7, 1954.

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 cost which the Government may pay, under provisions of Article 4 of the contract form.

Dated: May 4, 1954

UNITED STATES OF AMERICA

By A. B. Needham
A. B. NEEDHAM
Executive Officer, Field Team
Region V

By C. G. Ortmayer
C. G. ORTMAYER, Partner

By R. G. Sullivan
R. G. SULLIVAN, Partner

By C. R. Boyle
C. R. BOYLE, Partner

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
(Region)

JUN 1 1953

DOCKET NO. DMEA -2051

COMMODITY Uranium

Division Copy

IDM-E 517

DMF-200 (A)
(February 1952)

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

# EXPLORATION PROJECT CONTRACT[1]
(Short Form)

IT IS AGREED this 7th day of May, 1953, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and[2] C. J. Ortmayer, R. G. Sullivan, and C. R. Boyle, Partners, Box 330 Edgemont, South Dakota

hereinafter called the "Operator," as follows:

ARTICLE 1. *Authority for contract.*—This agreement is entered into under the authority of the Defense Production Act of 1950, as amended, pursuant to DMEA Order 1 entitled "Government Aid in Defense Exploration Projects."

ARTICLE 2. *Operator's property rights.*—With respect to that certain land situated in the State of South Dakota, County of Fall River, described as follows:[3] Known as the Hip Snorter and Parker Groups of claims, and consisting of the property described in Annex I and shown on maps Exhibit "B" and Exhibit "C" attached to and made a part of this contract. The property area marked on map Exhibit "B", identified as "Area Previously Drilled," is not subject to the repayment provisions in Article 5 of this contract.

the Operator represents and undertakes:[4]

(a) That the Operator is the ~~owner in possession and entitled to possession, and the Owners' Consents to Lien are attached.~~

(b) That the Operator is a lessee, in possession and entitled to possession, and the ~~Owners' Consents to Lien are attached.~~

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.

ARTICLE 3. *Exploration project.*—The Operator, within 40 days from the date of this contract shall commence work on a project of exploration for[5] Uranium

in or upon the described land; and shall bring the project to completion within a period of 12 months from the date of this contract. The work to be performed is more fully described in Exhibit "A" attached hereto, which, with any maps or drawings thereto attached, are made a part of this contract. The Government will contribute to the cost of this work as hereafter provided. The work shall be performed by the Operator or by independent contractor or contractors efficiently, expertly, in a workmanlike manner, in accordance with good mining standards and State regulations for health and safety and for workmen's compensation and employers' liability insurance, with suitable and adequate equipment, materials, and labor, to bring the project to completion within the time fixed. 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.

ARTICLE 4. *Costs of the project.*—The agreed, estimated costs of performing the work, expressed in terms of units of work to be performed (per foot of drifting, per foot of drilling, per cubic yard of material to be moved, etc.) are set forth in Exhibit "A," attached hereto. The Government will pay 90 percent of these agreed, estimated costs, as they accrue, for units of work actually performed that conform with the description or specifications for the work set forth in this contract, in an aggregate total amount not in excess of $35,050.50 which is 90 percent of $38,945.00, the agreed, estimated total cost of the project in which the Government will participate: *Provided,* That until the Operator's final report and final accounting have been rendered to the Government and any final check or auditing required by the Government has been made, and a final settlement of the contract has been made, the Government may withhold from the last voucher or vouchers such sums as it sees fit not in excess of ten (10) percent of the maximum total which the Government might have been called upon to pay under the terms of the contract. The Government may, as it sees fit, make payments direct to the Operator's independent contractors, if any, for the account of the Operator, rather than to the Operator.

ARTICLE 5. *Reports, accounts, audits.*—(a) *Progress reports.* The Operator shall provide the Government with monthly reports of units of work performed under the contract, in quintuplicate (five copies), upon forms provided by the Government. These progress reports shall be certified by the Operator, and shall constitute both the Operator's invoice of units of work performed on the project during the period covered by the report and his voucher for repayment by the Government, unless the Government requires the use of a standard voucher form with invoice attached. Progress reports shall include surface and/or underground engineering-geological maps or sketches showing the progress of the exploration, with assay-reports on samples taken concurrently with the advance in mineralized ground.

[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, particularly excluding any land or interest therein to which the Government's lien is not to attach or the production from which is not to be subject to the Government's percentage royalty.
[4] Strike out the provision not applicable.
[5] Name of mineral or minerals.

(*b*) *Final report.*—Upon completion of the exploration work or termination of the contract the Operator shall pr[illegible] Government with an adequate geological and engineering report, in quintuplicate (five copies), including an estimate[illegible] reserves resulting from the exploration work.

(*c*) *Compliance with requirements.*—If, in the opinion of the Government, any of the Operator's reports are insufficient or incomplete, the Government may procure the making or completion of such reports and attachments as an expense of the exploration work; and the Government may withhold approval and payment of any vouchers depending upon insufficient or incomplete reports.

(*d*) *Accounts and audits.*—The Operator shall keep suitable records and accounts of the units of work performed, which the Government may inspect and audit at any time. The Government may at any time require a check of the work performed and an audit of the Operator's records and accounts, by a certified public accountant or otherwise, 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. Upon the completion of the project or termination of the contract the Operator shall render a final account and statement of work performed to accompany his final report.

ARTICLE 6. *Repayment by Operator.*—(*a*) If, at any time, the Government considers that a discovery or a development from which production may be made has resulted from the exploration work, the Government, at any time not later than 6 months after the Operator has rendered the required final report and final account, may so certify in writing to the Operator. The certification shall describe broadly or indicate the nature of the discovery or development. In the event of such certification, any minerals mined or produced from the land described in Article 2 within 10 years from the date of this contract, including any mined or produced before the certification, shall be subject to a percentage royalty which the Operator or his successor in interest shall pay to the Government, upon the net smelter returns, the net concentrator returns, or other net amounts realized from the sale or other disposition of any such production, in whatever form disposed of, including ore, concentrates, or metal, until the total amount contributed by the Government, without interest, is fully repaid, or said 10 years have elapsed, whichever occurs first, as follows:

(1) One and one-half (1½) percent of any such net amounts not in excess of eight dollars ($8.00) per ton.

(2) One and one-half (1½) percent of any such net amounts, plus one-half (½) percent of such net amounts for each additional full fifty cents ($0.50) by which such net amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) percent of such net amounts.

(For instance: The percentage royalty on a net amount of five dollars ($5.00) per ton, would be one and one-half (1½) percent; on a net amount of ten dollars ($10.00) per ton, three and one-half (3½) percent.)

(*b*) As here used, "net smelter returns," "net concentrator returns," and "other net amounts realized from the sale or other disposition," mean gross revenue from sales, or if not sold, the market value of the material after it is mined in the form in which and the place where it is held. In the case of integrated operations in which the material is not disposed of as such, these terms mean what is or would be the gross income from mining operations for percentage depletion purposes in income-tax determination.

(*c*) To secure the payment of its percentage royalty, the Government shall have and is hereby granted a lien upon the land described in Article 2 and upon any production of minerals therefrom, until the royalty claim is extinguished by lapse of time or is fully paid.

(*d*) This article is not to be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any mining or production operations.

ARTICLE 7. *Assignment, transfer, or loss of Operator's interest.*—Without the written consent of the Government, the Operator shall not assign or otherwise transfer or hypothecate this contract or any rights thereunder. The Operator shall not make any voluntary nor permit any involuntary transfer or conveyance of the Operator's rights in the land described in Article 2, without making suitable provision for the preservation of the Government's right to a percentage royalty on production and lien for the payment thereof; *Provided*, that mere failure by the Operator to maintain the Operator's rights in the land, without any consideration running to the Operator other than relief from the cost of maintaining such rights (as by surrender of a leasehold, failure to perform assessment work, or failure to exercise an option), coupled with complete abandonment by the Operator of all interest in or operations on the land for a period of 10 years from the date of this contract, shall not constitute such a transfer or conveyance. Should the Operator make or permit any transfer or conveyance in violation of this provision, the Operator shall be and remain liable for payment to the Government of the same amounts, at the same times, as would have been paid under the terms of the percentage royalty on production. If for any reason the net smelter returns, net concentrator returns, or other net amounts realized from the sale or other disposition of such production are not available as a means of measuring the amount of the Operator's liability, the amount thereof shall be estimated as well as may be, and in the event of dispute as to such estimates, the determination thereof by the Administrator of Defense Minerals Exploration Administration or by his successor shall be final and binding upon the Operator.

ARTICLE 8. *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 worth while discovery and in the opinion of the Government further operations are not justified.

ARTICLE 9. *Changes and added provisions* Addition to Article 6:

The repayment provisions of Article 6 shall apply also to any amount received as bonuses, premiums, or allowances, in addition to the sale price or market value of the minerals.

Executed in sextuplicate the day and year first above written.

By [illegible] Partner
By [illegible] Partner
By [illegible] Partner

THE UNITED STATES OF AMERICA

By [illegible]
Administrator, Defense Minerals Exploration Administration

I, , certify that I am the secretary of the corporation named as Operator herein; that , who signed this contract on behalf of the Operator, was then of said corporation; that said contract was duly signed for and in behalf of said corporation by authority of its governing body, and is within the scope of its corporate powers.

[CORPORATE SEAL]

U. S. GOVERNMENT PRINTING OFFICE 16—66329-1

EXPLORATION PROJECT CONTRACT
C. G. ORTMAYER, R. G. SULLIVAN, AND C. R. BOYLE
DOCKET NO. DMEA-2857

## ANNEX I

The land referred to in Article 2 is described as follows:

That portion of Sections 26, 27, and 34, Township 7 South, Range 3 East of the Black Hills Meridian, Fall River County, South Dakota, that is included within the boundaries of the following Lode Claim Locations:

| Name | Date of Record | Book | Page |
|---|---|---|---|
| Schoonmaker #1 | 5-19-52 | 31 Misc. | 158 |
| " #2 | 10-13-52 | 31 " | 502 |
| Ripsnorter #1 | 5-19-52 | 31 " | 157 |
| " #2 | 5-19-52 | 31 " | 157 |
| Morning Glory | 5-19-52 | 31 " | 158 |
| Cycad #1 | 5-19-52 | 31 " | 157 |
| " #2 | 5-19-52 | 31 " | 154 |
| Matias Peak #1 | 5-19-52 | 31 " | 155 |
| Matias Peak #2 | 5-19-52 | 31 " | 155 |
| Garner's Folly | 5-19-52 | 31 " | 156 |

That portion of Section 3, Township 8 South, Range 3 East of the Black Hills Meridian, Fall River County, South Dakota, that is included within the boundaries of the following Lode Claim Locations:

| Name | Date of Record | Book | Page |
|---|---|---|---|
| Parker #1 | 6- 9-52 | 31 Misc. | 308 |
| " #2 | 6- 9-52 | 31 " | 309 |
| " #3 | 6- 9-52 | 31 " | 309 |
| " #4 | 6- 9-52 | 31 " | 309 |
| " #5 | 6- 9-52 | 31 " | 310 |
| " #6 | 6- 9-52 | 31 " | 310 |
| " #7 | 11-18-52 | 31 " | 199 |
| " #8 | 11-18-52 | 31 " | 199 |

That portion of Sections 27 and 34, Township 7 South, Range 3 East of the Black Hills Meridian, Fall River County, South Dakota, that is included within the boundaries of the following Lode Claim Locations:

| Name | Date of Record | Book | Page |
|---|---|---|---|
| Montana #1 | 9-11-52 | 31 Misc. | 346 |
| " #2 | 9-11-52 | 31 " | 346 |

EXPLORATION PROJECT CONTRACT
C. G. ORTMAYER, R. G. SULLIVAN, AND C. R. BOYLE
DOCKET NO. DMEA-2857

EXHIBIT "A"

## Description of the Work

The purpose of the work is to explore the Lakota Formation of Early Cretaceous Age underlying the described property, for uranium ore. The exploration work shall be done by drilling holes from the surface with a wagon-mounted percussion drill.

The work is divided into two stages. Stage I shall be performed first. If, in the opinion of the Government, the results of Stage I warrant it and the Government approves it in writing in advance, Stage II shall be undertaken.

## STAGE I

This work is to be confined to Blocks Nos. 1 and 2 as shown on the attached map, Exhibit "B." It consists of drilling a maximum of 12,500 feet of wagon drill hole from the surface to penetrate the local ore-bearing horizon. The holes shall be drilled in a rectangle with a spacing of 100 feet between holes in a north-south direction and 50 feet between holes in an east-west direction. The depth of each hole shall be approximately 30 feet, except that in each 5000 square feet of area one hole shall be drilled to an approximate depth of 100 feet.

## STAGE II

This work is to be confined to Blocks Nos. 1, 2, and 3, as shown on the attached map, Exhibit "C," and, if approved in advance by the Government, on other areas of this property. It consists of drilling a maximum of 24,500 feet of wagon drill hole from the surface, and the hole spacing is to be the same as is described under Stage I, unless modified by agreement between the Government and the Operator.

The hole diameters and depths, the method of all sampling, and the method of recovering drill cuttings are all subject to the approval of the Government. At the

request of the Government, the Operator shall furnish it with such samples as it specifies.

## Estimated Costs of the Project

### Agreed Unit Costs

### STAGE I

| | | |
|---|---|---|
| 12,500 feet of wagon drill hole @ $1.04/ft. | $13,000.00 | |
| 100 sample analyses, including freight and postage, @ $4.00/each | 400.00 | |
| Total Stage I | | $13,400.00 |

### STAGE II

| | | |
|---|---|---|
| 24,500 feet of wagon drill hole @ $1.01/ft. | $24,745.00 | |
| 200 sample analyses, including freight and postage, @ $4.00/each | 800.00 | |
| Total Stage II | | $25,545.00 |
| Total Estimated Cost of Project | | $38,945.00 |
| Government Participation @ 90% | | $35,050.50 |

1

That portion of Sections 26, 27 and 34, Township 7 South, Range 3 East of the Black Hills Meridian, Fall River County, South Dakota that is included within the boundaries of the following Lode Claim Locations:

| Name | Date of Record | Book | Page |
|---|---|---|---|
| Schoonmaker #1 | 5-19-52 | 31 Misc. | 158 |
| " " #2 | 10-13-52 | 31 " | 502 |
| Ripsnorter #1 | 5-19-52 | 31 " | 157 |
| " " #2 | 5-19-52 | 31 " | 157 |
| Morning Glory | 5-19-52 | 31 " | 158 |
| Cycad #1 | 5-19-52 | 31 " | 157 |
| " " #2 | 5-19-52 | 31 " | 154 |
| Matias Peak #1 | 5-19-52 | 31 " | 155 |
| Matias Peak #2 | 5-19-52 | 31 " | 155 |
| Gurner's Folly | 5-19-52 | 31 " | 156 |

MF-203

# OWNER'S CONSENT TO LIEN

WHEREAS, the undersigned, as owner, co-owner, lessor, or seller has an interest in certain property in the State of South Dakota, County of Fall River, described as follows:1/ In a lease dated July 5, 1952 and recorded in Book 31[illegible], page 580 official records of Fall River County, So. Dak.

See attached sheet

which is the subject of a proposed exploration project contract, hereinafter called the "contract", between the United States of America, hereinafter called the "Government", and

2/ G. G. Ortmayer and R. G. Sullivan, both of Grand Junction, Colo. and G. R. Boyle of Edgemont, South Dakota; a partnership.

hereinafter called the "Operator"; and

WHEREAS, under certain provisions of said contract which are set forth on the reverse side hereof, the Government is entitled to a percentage royalty on production and to certain other rights and equities which do or may conflict with or be adverse to the interest of the undersigned in said property;

NOW THEREFORE, the undersigned, in consideration of said contract and as an inducement to the Government to enter into same, undertakes and agrees as follows:

1. The Government's equity in and right to dismantle, sever, take possession of, and remove and dispose of facilities, buildings, fixtures, equipment, or other items as provided in the contract, or any amendment thereof, shall prevail over and be prior and superior to any conflicting or adverse rights of the undersigned, and the Government is authorized to enter upon the land for such purposes.

2. To secure the payment to the Government of the percentage royalty on production3/ provided for under the terms of said exploration project contract, or any amendment thereof which does not increase the maximum amount of the Government's claim here stated or alter the provisions for repayment, there is hereby granted to the Government a lien upon the land herein described and upon any production of minerals therefrom, until the royalty claim is fully paid in the amount of the Government's contribution, not in excess of 4/$ 45,000.00, or ten years have elapsed from the date of the contract.

3. The undersigned shall commit no act nor assert any claim that may contravene or conflict with the lien, claim, or rights of the Government under the provisions of said contract. This agreement shall be binding upon the heirs, executors, administrators, successors, and assigns of the undersigned.

Dated this 20th day of December, 195 2.

Paul H. Russell, Trustee [Seal]

Atty in fact [Seal]

[Seal]

1/ Either (a) insert the legal description of the land, or (b) strike out the words "as follows" and insert "in a lease [or contract, deed, or other document] dated _____, and recorded in book _____ page _____ official records of said county." If (b) is used, the book and page of recordation cannot be dispensed with. If the space provided is insufficient, use an Annex, and refer to the Annex in the space.

2/ Insert the name of the Operator as it will appear in the exploration project contract.

[illegible]ining or production from the land is not required, and in the absence of production there is [illegible]bligation to repay the Government.

[illegible] the maximum amount of the Government's contribution.

## RELEVANT CONTRACT PROVISIONS

Repayment by Operator. (a) If, at any time, the Government considers that a discovery or a development from which production may be made has resulted from the exploration work, the Government, at any time not later than six months after the Operator has rendered the required final report and final account, may so certify in writing to the Operator. The certification shall describe broadly or indicate the nature of the discovery or development. In the event of such certification, any minerals mined or produced from the land described in Article 2 within 10 years from the date of this contract, including any mined or produced before the certification, shall be subject to a percentage royalty which the Operator or his successor in interest shall pay to the Government, upon the net smelter returns, the net concentrator returns, or other net amounts realized from the sale or other disposition of any such production, in whatever form disposed of, including ore, concentrates, or metal, until the total amount contributed by the Government, without interest, is fully repaid, or said 10 years have elapsed, whichever occurs first, as follows:

(1) One and one-half (1½) per cent of any such net amounts not in excess of eight dollars ($8.00) per ton.

(2) One and one-half (1½) per cent of any such net amounts, plus one-half (½) per cent such net amounts for each additional full fifty cents ($0.50) by which such net amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) per cent of such net amounts.

(For instance: the percentage royalty on a net amount of five dollars ($5.00) per ton, would be one and one-half (1½) per cent; on a net amount of ten dollars ($10.00) per ton, three and one-half (3½) per cent.)

(b) As here used, "net smelter returns", "net concentrator returns", and "other net amounts realized from the sale or other disposition", mean gross revenue from sales; or if not sold, the market value, the market value of the material after it is mined in the form in which and the place where it is held. In the case of integrated operations in which the material is not disposed of as such, these terms mean what is or would be gross income from mining operations for percentage depletion purposes in income tax determination.

(c) To secure the payment of its percentage royalty, the Government shall have and is hereby granted a lien upon the land described in Article 2 and upon any production of minerals therefrom, until the royalty claim is extinguished by lapse of time or is fully paid.

(d) This article is not to be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any mining or production operations.

Title to and disposition of property. All facilities, buildings, fixtures, equipment, or other items costing more than $50.00 each, paid for or purchased with funds contributed jointly by the Operator and the Government, although title may be taken in the name of the Operator, shall belong to the Operator and the Government jointly, in proportion to their respective contributions, and upon the completion of the work or the termination of the contract shall be disposed of promptly by the Operator for the joint account of the Government and the Operator, either by return to the vendor, by sale to others, or purchase by the Operator at a price at least as high as could otherwise be obtained, as may appear to be for the best interest of the Government, unless the Government, in writing, waives its interest in any such item. If necessary to accomplish such disposition, the Operator shall dismantle, sever from the land, and remove any such item, the cost thereof to be for the joint account of the parties in proportion to their respective interests. If the Operator, within 90 days after the receipt of written notice from the Government, fails, neglects, or refuses to dispose of such property, the Government may itself enter upon the land, take possession of, and remove and dispose of any such property as above provided.

That portion of Section 3, Township 8 South, Range 3 East of the Black Hills Meridian, Fall River County, South Dakota that is included within the boundaries of the following Lode Claim Locations:

| Name | Date of Record | Book | Page |
|---|---|---|---|
| Parker #1 | 6-9-52 | 31 Misc. | 308 |
| " " #2 | 6-9-52 | 31 " | 309 |
| " " #3 | 6-9-52 | 31 " | 309 |
| " " #4 | 6-9-52 | 31 " | 309 |
| " " #5 | 6-9-52 | 31 " | 310 |
| " " #6 | 6-9-52 | 31 " | 310 |
| " " #7 | 11-18-52 | 31 " | 199 |
| " " #8 | 11-18-52 | 31 " | 199 |

MF-203

# OWNER'S CONSENT TO LIEN

WHEREAS, the undersigned, as owner, co-owner, lessor, or seller has an interest in certain property in the State of South Dakota, County of Fall River, described as follows:1/

See attached sheet.

which is the subject of a proposed exploration project contract, hereinafter called the "contract", between the United States of America, hereinafter called the "Government", and

2/ C. G. Ortmayer and R. G. Sullivan both of Grand Junction, Colo. and C. R. Boyle of Edgemont, South Dakota; a partnership.

hereinafter called the "Operator"; and

WHEREAS, under certain provisions of said contract which are set forth on the reverse side hereof, the Government is entitled to a percentage royalty on production and to certain other rights and equities which do or may conflict with or be adverse to the interest of the undersigned in said property;

NOW THEREFORE, the undersigned, in consideration of said contract and as an inducement to the Government to enter into same, undertakes and agrees as follows:

1. The Government's equity in and right to dismantle, sever, take possession of, and remove and dispose of facilities, buildings, fixtures, equipment, or other items as provided in the contract, or any amendment thereof, shall prevail over and be prior and superior to any conflicting or adverse rights of the undersigned, and the Government is authorized to enter upon the land for such purposes.

2. To secure the payment to the Government of the percentage royalty on production3/ provided for under the terms of said exploration project contract, or any amendment thereof which does not increase the maximum amount of the Government's claim here stated or alter the provisions for repayment, there is hereby granted to the Government a lien upon the land herein described and upon any production of minerals therefrom, until the royalty claim is fully paid in the amount of the Government's contribution, not in excess of 4/$ 45,000.00, or ten years have elapsed from the date of the contract.

3. The undersigned shall commit no act nor assert any claim that may contravene or conflict with the lien, claim, or rights of the Government under the provisions of said contract. This agreement shall be binding upon the heirs, executors, administrators, successors, and assigns of the undersigned.

Dated this 15th day of December, 195 2

Charles H. Frazer [Seal]

Willard F. Beard [Seal]

Earl Boney [Seal]

1/ Either (a) insert the legal description of the land, or (b) strike out the words "as follows" and insert "in a lease [or contract, deed, or other document] dated _____, and recorded in book _____ page _____ official records of said county." If (b) is used, the book and page of recordation cannot be dispensed with. If the space provided is insufficient, use an Annex, and refer to the Annex in the space.

2/ Insert the name of the Operator as it will appear in the exploration project contract.

3/ Mining or production from the land is not required, and in the absence of production there is no obligation to repay the Government.

4/ Insert the maximum amount of the Government's contribution.

## RELEVANT CONTRACT PROVISIONS

Repayment by Operator. (a) If, at any time, the Government considers that a discovery or a development from which production may be made has resulted from the exploration work, the Government, at any time not later than six months after the Operator has rendered the required final report and final account, may so certify in writing to the Operator. The certification shall describe broadly or indicate the nature of the discovery or development. In the event of such certification, any minerals mined or produced from the land described in Article 2 within 10 years from the date of this contract, including any mined or produced before the certification, shall be subject to a percentage royalty which the Operator or his successor in interest shall pay to the Government, upon the net smelter returns, the net concentrator returns, or other net amounts realized from the sale or other disposition of any such production, in whatever form disposed of, including ore, concentrates, or metal, until the total amount contributed by the Government, without interest, is fully repaid, or said 10 years have elapsed, whichever occurs first, as follows:

(1) One and one-half (1½) per cent of any such net amounts not in excess of eight dollars ($8.00) per ton.

(2) One and one-half (1½) per cent of any such net amounts, plus one-half (½) per cent such net amounts for each additional full fifty cents ($0.50) by which such net amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) per cent of such net amounts.

(For instance: the percentage royalty on a net amount of five dollars ($5.00) per ton, would be one and one-half (1½) per cent; on a net amount of ten dollars ($10.00) per ton, three and one-half (3½) per cent.)

(b) As here used, "net smelter returns", "net concentrator returns", and "other net amounts realized from the sale or other disposition", mean gross revenue from sales; or if not sold, the market value, the market value of the material after it is mined in the form in which and the place where it is held. In the case of integrated operations in which the material is not disposed of as such, these terms mean what is or would be gross income from mining operations for percentage depletion purposes in income tax determination.

(c) To secure the payment of its percentage royalty, the Government shall have and is hereby granted a lien upon the land described in Article 2 and upon any production of minerals therefrom, until the royalty claim is extinguished by lapse of time or is fully paid.

(d) This article is not to be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any mining or production operations.

Title to and disposition of property. All facilities, buildings, fixtures, equipment, or other items costing more than $50.00 each, paid for or purchased with funds contributed jointly by the Operator and the Government, although title may be taken in the name of the Operator, shall belong to the Operator and the Government jointly, in proportion to their respective contributions, and upon the completion of the work or the termination of the contract shall be disposed of promptly by the Operator for the joint account of the Government and the Operator, either by return to the vendor, by sale to others, or purchase by the Operator at a price at least as high as could otherwise be obtained, as may appear to be for the best interest of the Government, unless the Government, in writing, waives its interest in any such item. If necessary to accomplish such disposition, the Operator shall dismantle, sever from the land, and remove any such item, the cost thereof to be for the joint account of the parties in proportion to their respective interests. If the Operator, within 90 days after the receipt of written notice from the Government, fails, neglects, or refuses to dispose of such property, the Government may itself enter upon the land, take possession of, and remove and dispose of any such property as above provided.

That portion of Sections 27 & 34, Township 7 South, Range 3 East of the Black Hills Meridian, Fall River County, South Dakota that is included within the boundaries of the following Lode Claim Locations:

| Name | Date of Record | Book | Page |
|---|---|---|---|
| Montana #1 | 9-11-52 | 31 Misc. | 346 |
| " " #2 | 9-11-52 | 31 " | 346 |

MF-203

# OWNER'S CONSENT TO LIEN

WHEREAS, the undersigned, as owner, co-owner, lessor, or seller has an interest in certain property in the State of South Dakota, County of Fall River, described as follows:1/

See attached sheet

which is the subject of a proposed exploration project contract, hereinafter called the "contract", between the United States of America, hereinafter called the "Government", and

2/ C. G. Ortmayer and R. G. Sullivan, both of Grand Junction, Colo. And C. R. Boyle of Edgemont, South Dakota; a partnership.

hereinafter called the "Operator"; and

WHEREAS, under certain provisions of said contract which are set forth on the reverse side hereof, the Government is entitled to a percentage royalty on production and to certain other rights and equities which do or may conflict with or be adverse to the interest of the undersigned in said property;

NOW THEREFORE, the undersigned, in consideration of said contract and as an inducement to the Government to enter into same, undertakes and agrees as follows:

1. The Government's equity in and right to dismantle, sever, take possession of, and remove and dispose of facilities, buildings, fixtures, equipment, or other items as provided in the contract, or any amendment thereof, shall prevail over and be prior and superior to any conflicting or adverse rights of the undersigned, and the Government is authorized to enter upon the land for such purposes.

2. To secure the payment to the Government of the percentage royalty on production3/ provided for under the terms of said exploration project contract, or any amendment thereof which does not increase the maximum amount of the Government's claim here stated or alter the provisions for repayment, there is hereby granted to the Government a lien upon the land herein described and upon any production of minerals therefrom, until the royalty claim is fully paid in the amount of the Government's contribution, not in excess of 4/$ 45,000.00, or ten years have elapsed from the date of the contract.

3. The undersigned shall commit no act nor assert any claim that may contravene or conflict with the lien, claim, or rights of the Government under the provisions of said contract. This agreement shall be binding upon the heirs, executors, administrators, successors, and assigns of the undersigned.

Dated this 3rd day of December, 195 2.

Chas. H. Fraser [Seal]

Alva H. Schnee [Seal]

Amos C. Clark [Seal]

1/ Either (a) insert the legal description of the land, or (b) strike out the words "as follows" and insert "in a lease [or contract, deed, or other document] dated _____, and recorded in book _____ page _____ official records of said county." If (b) is used, the book and page of recordation cannot be dispensed with. If the space provided is insufficient, use an Annex, and refer to the Annex in the space.

2/ Insert the name of the Operator as it will appear in the exploration project contract.

3/ Mining or production from the land is not required, and in the absence of production there is no obligation to repay the Government.

4/ Insert the maximum amount of the Government's contribution.

RELEVANT CONTRACT PROVISIONS

Repayment by Operator. (a) If, at any time, the Government considers that a discovery or a development from which production may be made has resulted from the exploration work, the Government, at any time not later than six months after the Operator has rendered the required final report and final account, may so certify in writing to the Operator. The certification shall describe broadly or indicate the nature of the discovery or development. In the event of such certification, any minerals mined or produced from the land described in Article 2 within 10 years from the date of this contract, including any mined or produced before the certification, shall be subject to a percentage royalty which the Operator or his successor in interest shall pay to the Government, upon the net smelter returns, the net concentrator returns, or other net amounts realized from the sale or other disposition of any such production, in whatever form disposed of, including ore, concentrates, or metal, until the total amount contributed by the Government, without interest, is fully repaid, or said 10 years have elapsed, whichever occurs first, as follows:

(1) One and one-half (1½) per cent of any such net amounts not in excess of eight dollars ($8.00) per ton.

(2) One and one-half (1½) per cent of any such net amounts, plus one-half (½) per cent such net amounts for each additional full fifty cents ($0.50) by which such net amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) per cent of such net amounts.

(For instance: the percentage royalty on a net amount of five dollars ($5.00) per ton, would be one and one-half (1½) per cent; on a net amount of ten dollars ($10.00) per ton, three and one-half (3½) per cent.)

(b) As here used, "net smelter returns", "net concentrator returns", and "other net amounts realized from the sale or other disposition", mean gross revenue from sales; or if not sold, the market value, the market value of the material after it is mined in the form in which and the place where it is held. In the case of integrated operations in which the material is not disposed of as such, these terms mean what is or would be gross income from mining operations for percentage depletion purposes in income tax determination.

(c) To secure the payment of its percentage royalty, the Government shall have and is hereby granted a lien upon the land described in Article 2 and upon any production of minerals therefrom, until the royalty claim is extinguished by lapse of time or is fully paid.

(d) This article is not to be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any mining or production operations.

Title to and disposition of property. All facilities, buildings, fixtures, equipment, or other items costing more than $50.00 each, paid for or purchased with funds contributed jointly by the Operator and the Government, although title may be taken in the name of the Operator, shall belong to the Operator and the Government jointly, in proportion to their respective contributions, and upon the completion of the work or the termination of the contract shall be disposed of promptly by the Operator for the joint account of the Government and the Operator, either by return to the vendor, by sale to others, or purchase by the Operator at a price at least as high as could otherwise be obtained, as may appear to be for the best interest of the Government, unless the Government, in writing, waives its interest in any such item. If necessary to accomplish such disposition, the Operator shall dismantle, sever from the land, and remove any such item, the cost thereof to be for the joint account of the parties in proportion to their respective interests. If the Operator, within 90 days after the receipt of written notice from the Government, fails, neglects, or refuses to dispose of such property, the Government may itself enter upon the land, take possession of, and remove and dispose of any such property as above provided.

MF-203

# OWNER'S CONSENT TO LIEN

WHEREAS, the undersigned, as owner, co-owner, lessor, or seller has an interest in certain property in the State of South Dakota, County of Fall River, described as follows:1/

Parker No. 7 Lode Claim, filed November 18, 1952 at 2:15 P.M. in Book 21 M., page 199, Certificate No. 32235 and

Parker No. 8 Lode Claim, filed Nov. 18, ~~1952~~ 1952 at 2:15 P.M., in Book 21 M., page 199, Certificate No. 32236. Both the above in the Fall River County Records.

which is the subject of a proposed exploration project contract, hereinafter called the "contract", between the United States of America, hereinafter called the "Government", and

2/ C. R. Boyle, Box 330, Edgemont, South Dakota

hereinafter called the "Operator"; and

WHEREAS, under certain provisions of said contract which are set forth on the reverse side hereof, the Government is entitled to a percentage royalty on production and to certain other rights and equities which do or may conflict with or be adverse to the interest of the undersigned in said property;

NOW THEREFORE, the undersigned, in consideration of said contract and as an inducement to the Government to enter into same, undertakes and agrees as follows:

1. The Government's equity in and right to dismantle, sever, take possession of, and remove and dispose of facilities, buildings, fixtures, equipment, or other items as provided in the contract, or any amendment thereof, shall prevail over and be prior and superior to any conflicting or adverse rights of the undersigned, and the Government is authorized to enter upon the land for such purposes.

2. To secure the payment to the Government of the percentage royalty on production3/ provided for under the terms of said exploration project contract, or any amendment thereof which does not increase the maximum amount of the Government's claim here stated or alter the provisions for repayment, there is hereby granted to the Government a lien upon the land herein described and upon any production of minerals therefrom, until the royalty claim is fully paid in the amount of the Government's contribution, not in excess of 4/$ 25,000.00, or ten years have elapsed from the date of the contract.

3. The undersigned shall commit no act nor assert any claim that may contravene or conflict with the lien, claim, or rights of the Government under the provisions of said contract. This agreement shall be binding upon the heirs, executors, administrators, successors, and assigns of the undersigned.

Dated this 11th day of April, 195 3.

Chas. H. Fisher [Seal]

Earl Bonny by R. Bonny [Seal]

Willard F. Beard [Seal]

1/ Either (a) insert the legal description of the land, or (b) strike out the words "as follows" and insert "in a lease [or contract, deed, or other document] dated _____, and recorded in book _____ page _____ official records of said county." If (b) is used, the book and page of recordation cannot be dispensed with. If the space provided is insufficient, use an Annex, and refer to the Annex in the space.

2/ Insert the name of the Operator as it will appear in the exploration project contract.

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4/ Insert the maximum amount of the Government's contribution.

Repayment by Operator. (a) If, at any time, the Government considers that a discovery or a development from which production may be made has resulted from the exploration work, the Government, at any time not later than six months after the Operator has rendered the required final report and final account, may so certify in writing to the Operator. The certification shall describe broadly or indicate the nature of the discovery or development. In the event of such certification, any minerals mined or produced from the land described in Article 2 within 10 years from the date of this contract, including any mined or produced before the certification, shall be subject to a percentage royalty which the Operator or his successor in interest shall pay to the Government, upon the net smelter returns, the net concentrator returns, or other net amounts realized from the sale or other disposition of any such production, in whatever form disposed of, including ore, concentrates, or metal, until the total amount contributed by the Government, without interest, is fully repaid, or said 10 years have elapsed, whichever occurs first, as follows:

(1) One and one-half (1½) per cent of any such net amounts not in excess of eight dollars ($8.00) per ton.

(2) One and one-half (1½) per cent of any such net amounts, plus one-half (½) per cent such net amounts for each additional full fifty cents ($0.50) by which such net amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) per cent of such net amounts.

(For instance: the percentage royalty on a net amount of five dollars ($5.00) per ton, would be one and one-half (1½) per cent; on a net amount of ten dollars ($10.00) per ton, three and one-half (3½) per cent.)

(b) As here used, "net smelter returns", "net concentrator returns", and "other net amounts realized from the sale or other disposition", mean gross revenue from sales; or if not sold, the market value, the market value of the material after it is mined in the form in which and the place where it is held. In the case of integrated operations in which the material is not disposed of as such, these terms mean what is or would be gross income from mining operations for percentage depletion purposes in income tax determination.

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EXI... D...

RECEIVE

DATE | CODE
7-1 FLK | 700

224 New Customhouse
Denver 2, Colorado

June 28, 1957

Mr. C. R. Boyle, President
Sodak Uranium and Mining Company, Inc.
P. O. Box 330
Edgemont, South Dakota

Re: Docket DMEA-8857 (Uranium)
Contract IAm-E517
Sodak Uranium and Mining Co., Inc.
(Rigsmorter and Parker Claims, et al.)
Fall River County, South Dakota

Dear Mr. Boyle:

That we may forward correspondence concerning the results of work performed under the captioned contract to some of the owners involved, please provide this office with the mailing addresses of the following:

Alva H. Schnee
Amos C. Clark
Earl Bomar
Willard F. Beard

Your early attention to this request will be appreciated.

Very truly yours,

Original signed by
W. H. KING

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

MHM:jy
cc: Royalty File 517
Corresp. E517
Chm. Op. Comm. (2)
DMEA/DFC (2)
Townsend w/copy of related corresp.
Marshall
Chron.

Audited

Certified

WORK ANALYSIS SHEET - DMEA PROJECT

Analysis as of JUNE 11, 1957
Incl. Voucher for August 1955

☐ Actual Cost

☑ Agreed Unit Costs

Name Sodak Uranium and Mining Company, Inc.

Docket No. 2857

State South Dakota

Commodity Uranium

Idm-E No. 517

| OPERATION | AUTHORIZED Units | AUTHORIZED Cost | COMPLETED Units | COMPLETED Cost | NET COST |
|---|---|---|---|---|---|
| Drifting & Crosscutting | | | | | |
| Raising | | | | | |
| Shafts | | | | | |
| Winzes | | | | | |
| Drilling wagon @ $1.04/ft. | 12,500' | $13,000.00 | 12,500' | $13,000.00 | $13,000.00 |
| (Specify) " @ $1.01/ft. | 24,500' | $24,745.00 | 2838.5' | 2,866.89 | 2,866.89 |
| Surface Excavation | | | | | |
| Underground Excavation | | | | | |
| Roads and Trails | | | | | |
| Operating Equipment Purchased | | | | | |
| Surface Rehabilitation & Repairs | | | | | |
| Underground Rehabilitation | | | | | |
| New Building, Improvements, etc. | | | | | |
| Other (Specify) Sample Analyses 300 | | 1200.00 | | | |
| Totals | | $38,945.00 | | $15,866.89 | $15,866.89 |

Prepared by J. L. Crouse

71626

Code 700

PROJECT SUMMARY REPORT

By: F. L. Knouse Date: June 12, 1957

1. Docket No. DMF-2857 (Uranium)
Contract No. Ldm-1517

Operator: Sodak Uranium and Mining Company, "Assignee"
Ortmayer, Sullivan and Boyle "Assignor"
Box 330, Fairmont, South Dakota

Property: Consists of two groups of 20 unpatented lode mining claims as follows: Parker Group - Parker Nos. 1 through 8; Ripsnorter Group - Ripsnorter Nos. 1 and 2; Schoonmaker Nos. 1 and 2; Morning Glory; Cycad Nos. 1 and 2; Matias Peak Nos. 1 and 2; Gerner's Folly; and Montana Nos. 1 and 2, in secs. 26, 27, and 34, T. 7 S., R. 3 E., B.H.M.M., Fall River County, South Dakota.

Property Rights: The operator controls the claims by assignment from the original operator, dated June 6, 1955. The original operator controlled the Ripsnorter group, all of the claim group except the Montana Nos. 1 and 2 are held by lease from the Fall River Mining Company, and the Montana Nos. 1 and 2 claims are held by lease from Alva H. Schnes, Chas. H. Frazier and Amos C. Clark. The Parker group was leased from Earl Boner, Charles H. Frazier and Willard Beard.

The following are attached to the contract:

Owner's Consent to Lien, dated Dec. 15, 1952, signed by Charles H. Frazier, Willard F. Beard and Earl Boner;
Owner's Consent to Lien, dated Dec. 3, 1952, signed by Charles H. Frazier, Alva H. Schnes, and Amos C. Clark; and
Owner's Consent to Lien, dated Dec. 20, 1952, signed by Paul H. Russell, Trustee for Fall River Mining Company.

2. Contract - dated May 7, 1953

Project work started June 15, 1952, but due to poor management, faulty equipment, and adverse weather the work was not completed until August 1955.

Work Authorized:

A two-stage program of wagon drilling to test the Lakota formation of Cretaceous age for uranium-bearing ore.

Stage I - consists of 12,500 feet drilled to an approximate depth of 30 feet on a grid of 100 feet apart in a north-south direction and 50 feet apart in an east-west direction. In addition one hole in 5,000 square feet of area was to be drilled to a depth of 100 feet. The work was confined to Blocks Nos. 1 and 2.

Stage II - Consists of drilling 24,500 feet of wagon drilling in Blocks Nos. 1, 2, and 3, with hole spacing the same as described under Stage I.

Estimated Cost (Agreed Unit Cost - Short Form Contract):

Stage I:

| | | |
|---|---|---|
| 12,500 ft. wagon drill holes @ $1.04/ft. | $13,000.00 | |
| 100 sample analyses @ $4/each | 400.00 | |
| Total Stage I ..... | | $13,400.00 |

Stage II:

| | | |
|---|---|---|
| 24,500 ft. wagon drill holes @ $1.01/ft. | $24,745.00 | |
| 200 sample analyses @ $4/each | 800.00 | |
| Total Stage II ..... | | $25,545.00 |

| | |
|---|---|
| Estimated Total Cost of Project ..... | $39,945.00 |
| Government Participation @ 90% ..... | $35,950.50 |

Work Completed:

Stage I (Amendment No. 2):

| | | |
|---|---|---|
| 12,500 ft. wagon drilling (297 holes) @ $1.04/ft. | $13,000.00 | |
| 2,538.5 ft. wagon drilling (18 holes & deepening 7 holes) @ $1.01/ft. | 2,566.89 | |
| Total Accepted Cost of Project ..... | | $15,866.89 |
| Government Participation @ 90% ..... | | $14,280.21 |

Amendments:

No. 1 - dated May 4, 1954 increased the time for completion of the project work from May 7, until November 7, 1954.

No. 2 - dated July 10, 1954 modified drilling program:
Stage I, Phase I - limited the wagon drilling to 8,596.5 feet for Blocks Nos. 1 and 2 @ $1.04/ft. Phase II was limited 15,600 feet of wagon drilling for the drilling of 100 holes to a depth of 130 feet and the deepening of 7 holes from 30 to 80 feet and the drilling of 2 holes to a depth of 80 feet. 3,903.5 feet were to be drilled @ $1.04/ft. and 11,696.5 feet @ $1.01/ft.
Stage II was limited to 12,803.5 feet of wagon drilling @ $1.01/ft. confined to Blocks Nos. 1, 2, and 3. Hole spacing to be the same as for Stage I. Depth and location of holes subject to prior approval of the Government.

No. 3 - dated Nov. 2, 1954, extended completion date of project work until May 7, 1955.

No. 4 - dated May 25, 1955, extended the time for completion of project work until October 1, 1955.

Assignment of Contract - dated June 6, 1955 to Kodak Uranium and Mining Co., Inc., At the request of the Operator the contract was permitted to expire on Oct. 1, 1956 without completion of the work provided for in the contract.

3. Audit Report of Review - dated March 19, 1956:

| | | |
|---|---|---|
| Total Cost as billed by Contractor | | $15,883.05 |
| Exceptions: (Schedule attached) | | |
| by AEC Finance Officer | $16.16 | |
| Herewith | 0.00 | 16.16 |
| Total Accepted Cost | | $15,866.89 |
| Government Participation @ 90% | | $14,280.21 |

4. Certification - Field Team estimated reserves is 130 tons of indicated and 70 tons of inferred ore containing 0.11% $U_3O_8$ discovered as a result of the project work and recommended no certificate of discovery. The writer concurs with the Field Team's recommendations.

The Operator paid royalties to the Government on ore produced from area included in the contract, but royalties were not paid on production from the claim areas not included in the contract. See memorandum, dated March 28, 1957 from L. O. Binyon to the Acting Executive Officer, Region III. Mining of the deposit was in progress when the application was submitted. Approximately 200 tons containing 0.17% $U_3O_8$ had been produced. The operator reported a total production of 2,054 tons of ore was shipped from the (Matias Peak area) claim area that was not included in the contract. Also 193.71 tons containing 0.22% $U_3O_8$ valued at $16,688.21 were mined during the contract period on which the operator paid royalties to the Government.

5. Comments:

The Operator submitted a final report that was transmitted by the Field Team without comments. The report appears to supply the pertinent information. Progress of the project was slow caused in part by adverse weather and faulty equipment, but mainly by poor supervision and an apparent lack of interest on the part of the management. As a result almost three years expired before the work was completed.

A few carnotite-type uranium deposits were known to exist within the claim area in the Fall River and Lakota sandstones of early Cretaceous age. The presence of these deposits and the presence of surface radioactivity anomalies provided the initial justification for the exploration project.

A total of 15,338.5 feet were drilled in 315 holes under the terms of the contract. Fourteen samples were analyzed taken from sections in drill holes which showed the highest radioactivity at the expense of the Operator. As a result of the exploration program, the Field Team estimates a reserve of 130 tons of indicated and 70 tons of inferred ore containing 0.11% $U_3O_8$ limited to a single deposit at a depth of 27 to 30 feet.

The property has been adequately explored and no further exploration with Government assistance is recommended.

F. I. Knouse

FIKnouse/izm 6-12-57
cc to: Mr. Knouse
Admr.'s Reading File
~~Operating Committee~~
Code 700

DMEA
DEPARTMENT OF THE INTERIOR
MAR 28 1957
REGION III
DENVER, COLORADO

March 28, 1957

Memorandum

To: Acting Executive Officer, DMEA Field Team, Region III
Through: John F. Shaw
Supervising Mining Engineer

From: E. O. Binyon

Subject: Docket DMEA 2857 (Uranium), Contract Idm-E517 Sodak Uranium and Mining Company, Inc. (Ripsnorter and Parker claim groups) Fall River County, South Dakota--Production subject to DMEA royalty payment.

In reply to your memorandum of March 27, 1957 concerning the subject, this is to state that the ore was produced from that portion of the Matia's Peak Nos. 1 and No. 2 which is not subordinated to the Government under Contract Idm-E517. Further, most, if not all of this ore was mined prior to the date of the contract.

E O Binyon
E. O. Binyon

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25th New Customhouse
Denver 2, Colorado

March 27, 1957

Memorandum

To: John F. Shaw (2)

From: Acting Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA-2057 (Uranium) Contract IAm-2517, Badak Uranium and Mining Company, Inc. (Highmarter and Parker Claim groups) Fall River County, South Dakota

Enclosed is a copy of a letter dated March 19, 1957 from J. C. Westbrook, AEC, pertaining to production from property cited in the subject contract.

It is our understanding that the production mentioned in Mr. Westbrook's letter was made either prior to the date of the contract or from that portion of the Matia's Peak Nos. 1 and 2 claims, which is not subordinated to the Government under Contract IAm-2517.

For the records, however, and to expedite a royalty audit of the subject contract now in progress, please have the engineer familiar with the project submit to this office an original and nine copies of a memorandum statement which confirms our understanding.

Original signed by
E. N. HARSHMAN

E. N. Harshman

Enclosures
MEM:jy
cc: Royalty File 2517
Corresp. File 2517
Chm.Op.Comm. (2)
Harshman
Finch
Marshall
Chron.

} w/copy of Westbrook's ltr dtd 3-19-57

UNITED STATES
ATOMIC ENERGY COMMISSION
GRAND JUNCTION OPERATIONS OFFICE
GRAND JUNCTION, COLORADO

| EXTRA COPY DMEA RECEIVED MAR 29 1957 | | |
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March 19, 1957

IN REPLY REFER TO:

FD:CMP

United States Department of the Interior
Defense Minerals Exploration Administration
224 New Customhouse
Denver, Colorado

Attention: Donald T. Finch, DMEA Auditor

Re: Certification and Production Sodak Uranium and Mining Company, Inc. (Formerly C. G. Ortmayer, R. G. Sullivan and C. R. Boyle, Partners) Ripsnorter and Parker Group of Claims, Edgemont Mining District, Fall River County, South Dakota
DMEA Contract Idm-E517, Docket No. DMEA-2857

Dear Mr. Finch:

The production summarized in your letter of February 25, 1957, re the above referenced contract, has been checked and verified. In addition to the verified production which came from the Cycad 1 and 2 Claims, our records indicate the following production from Matia's Peak 1 and 2:

| | Liq. No. | Date | Pounds U308 |
|---|---|---|---|
| Matia's Peak 1 | - | 8/53 | 541.63 |
| Matia's Peak 1 and 2 | - | 7/53 | 1,005.08 |
| | | Total | 1,546.71 |

The production from all producing claims was confined within the period May 1953 through September 1953.

Very truly yours,

J. C. Westbrook, Chief
Contract Finance Branch
Finance Division

224 New Customhouse
Denver 2, Colorado

March 20, 1957

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Memorandum

To: Chairman, Operating Committee, DMEA

From: DMEA Field Team, Region III

Subject: Docket DMEA-2857 (Uranium) Contract Idm-E517, Sodak Uranium and Mining Company, Inc. (Ripsnorter and Parker Claim groups) Fall River County, South Dakota - FINAL REPORT

Enclosed are the original and three copies of a joint final engineering and geologic report dated March 7, 1957 by Walden P. Pratt, Geologist, Geological Survey, and E. O. Binyon, Mining Engineer, Bureau of Mines, and transmittal thereof dated March 14, 1957 from E. N. Harshman and J. F. Shaw pertaining to work completed under the subject contract.

The original and one copy of the Operator's final report were forwarded by memorandum of July 2, 1956.

The short form Contract was let expire October 1, 1955, at the request of the Operator, without completing all the work provided for. Acceptable units of work completed consisted of the drilling of 314 wagon drill holes, aggregating 15,338.5 feet at a total acceptable cost of $15,866.89, towards which the Government contributed 90 percent, or an amount of $14,280.21.

Final payment to the Operator was processed by this office July 2, 1956 in conformance with the Report of Review of reported project costs by the Contract Administration and Audit Division, DMEA, dated March 19, 1956.

Ore reserves resulted from the exploration work are estimated at 130 tons of indicated ore and 70 tons of inferred

REVIEWED BY
THE OPERATING COMMITTEE
3-27-57

Final FT
Report

ore, containing 0.114 percent of $U_3O_8$, which is considered too insignificant to justify certification of the project under the provisions of the contract.

DMEA Field Team, Region III

Original signed by
E. N. HARSHMAN

By _____
E. N. Harshman
Acting Executive Officer

Enclosures

JWT:jy

cc: Allen E. Jones, A.E.C.
E.E. Thurlow, A.E.C. ) w/copy of joint final engineering
Harshman ) and geologic report
Shaw )
Final Report File Reg. III w/copy of Operator's
Townsend and joint final engi-
Corresp. E517 neering and geologic
Chron. reports

IN REPLY REFER TO:

DMEA

DEPARTMENT OF THE INTERIOR

MAR 19 1957

REGION III

DENVER, COLORADO

UNITED STATES

DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

Defense Minerals Exploration Administration

Denver Federal Center

Denver, Colorado

March 14, 1957

Memorandum

To: Executive Officer, DMEA Field Team, Region III

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

Subject: Docket DMEA 2857 (Uranium), Contract Idm-E 517, Sodak Uranium and Mining Company, Inc., (Ripsnorter and Parker claim groups), Fall River County, South Dakota

Enclosed are the original and 9 copies of a joint final report on the subject contract.

The contract provided for a maximum of 37,000 feet of wagon drilling in two stages to explore for carnotite-type uranium deposits in Cretaceous sandstones in the southern Black Hills, South Dakota.

Exploration began June 15, 1952, but due to poor management, faulty equipment, and adverse weather, the exploration was not completed until August 1955. All of the exploration, amounting to 15,354.5 feet of drilling, was accomplished under Stage I of the contract as amended. The cost of the exploration was $15,866.89, with Government participation at 90 percent amounting to $14,280.21.

At the operator's request the contract was terminated on October 1, 1955, the expiration date of the contract.

The exploration did not result in a discovery of minable deposits of uranium ore, and it is recommended that no certificate of discovery be issued.

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RU King

E. N. Harshman
Member, Field Team

Reviewed by
DMEA OPERATING COMMITTEE
3-27-57
(date)

J. F. Shaw
Supervising Mining Engineer

Enclosures

RUKing:arh

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

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

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DMEA 2857

Contract Idm-E 517

Sodak Uranium and Mining Company, Inc.

Ripsnorter and Parker claims groups

Fall River County, South Dakota

Uranium

Joint Final Engineering and Geological Report

by

Walden P. Pratt, Geologist
Geological Survey

E. O. Binyon, Mining Engineer
Bureau of Mines

March 7, 1957

Reviewed by
DMEA OPERATING COMMITTEE
3-27-57
(date)

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DMEA 2857

Contract Idm-E 517

SODAK URANIUM AND MINING COMPANY, INC.
RIPSNORTER AND PARKER CLAIMS GROUPS
Fall River County, South Dakota

## INTRODUCTION AND SUMMARY

The partnership of C. G. Ortmayer, R. G. Sullivan and C. R. Boyle, Edgemont, South Dakota, applied in November 1952 for Defense Minerals Exploration Administration assistance to explore for uranium on the Ripsnorter and Parker claim groups, Fall River County, South Dakota. The property was examined December 4, 1952, by E. O. Minyon, Bureau of Mines and J. A. Redden, Geological Survey, in company with C. R. Boyle of the applicant partnership. A limited exploration program of wagon-drilling was recommended, and contract Idm-E 517, dated May 7, 1953, provided for 37,000 feet of wagon drilling in two stages at a cost of $38,945, with Government participation at 90 percent or $35,050.50. The contract was transferred to Sodak Uranium and Mining Company, Inc., Hot Springs, South Dakota, on June 6, 1955, which continued the exploration until October 1, 1955, the expiration date of the contract. The cost of the exploration which was completed entirely under Stage I of the contract was $15,866.89; Government payments at 90 percent amounted to $14,280.21.

A few carnotite-type uranium deposits were known to exist within the claim area in the Fall River and Lakota sandstones of Early Cretaceous age. The presence of these deposits and the presence of surface radioactivity anomalies provided the initial justification for the exploration project.

The exploration did not result in the discovery of minable uranium deposits, or of anomalous radioactivity that would indicate the presence of such deposits.

It is recommended that no certification of discovery be issued.

## LOCATION AND ACCESSIBILITY

The ground to be explored under the contract consisted of 20 unpatented lode mining claims, in two separate groups of 12 and 8 claims; they are in secs. 26, 27, and 34, T. 7 S., R. 3 E., and sec. 3, T. 8 S., R. 3 E., B.H.P.M., in the Edgemont mining district, Fall River County, South Dakota (fig. 1). The Parker group, comprising 8 claims, is entirely in section 3, and the Ripsnorter group, of 12 claims, is in sections 27 and 34, with the exception of a small part of the Ripsnorter No. 2 which extends a short distance into section 26.

The property is 11 miles by road northeast of Edgemont, South Dakota, the nearest sizeable community and a railpoint on the Chicago Burlington and Quincy railroad. The property is reached by U. S. Highway 85A and 18 from which a dirt road turns sharply west at a point 9.6 miles east of Edgemont; after 300 feet the road turns right and continues north for 1.6 miles to workings on the Matias Peak No. 1 and Cyrad No. 1 claims. The northern boundary of the Ripsnorter claim group (and of the property included under the contract) is approximately 0.6 mile further north.

The property is readily accessible throughout the year, except for brief periods during the winter and spring, when heavy snow or rainfall might make travel from the highway to the claims impractical.

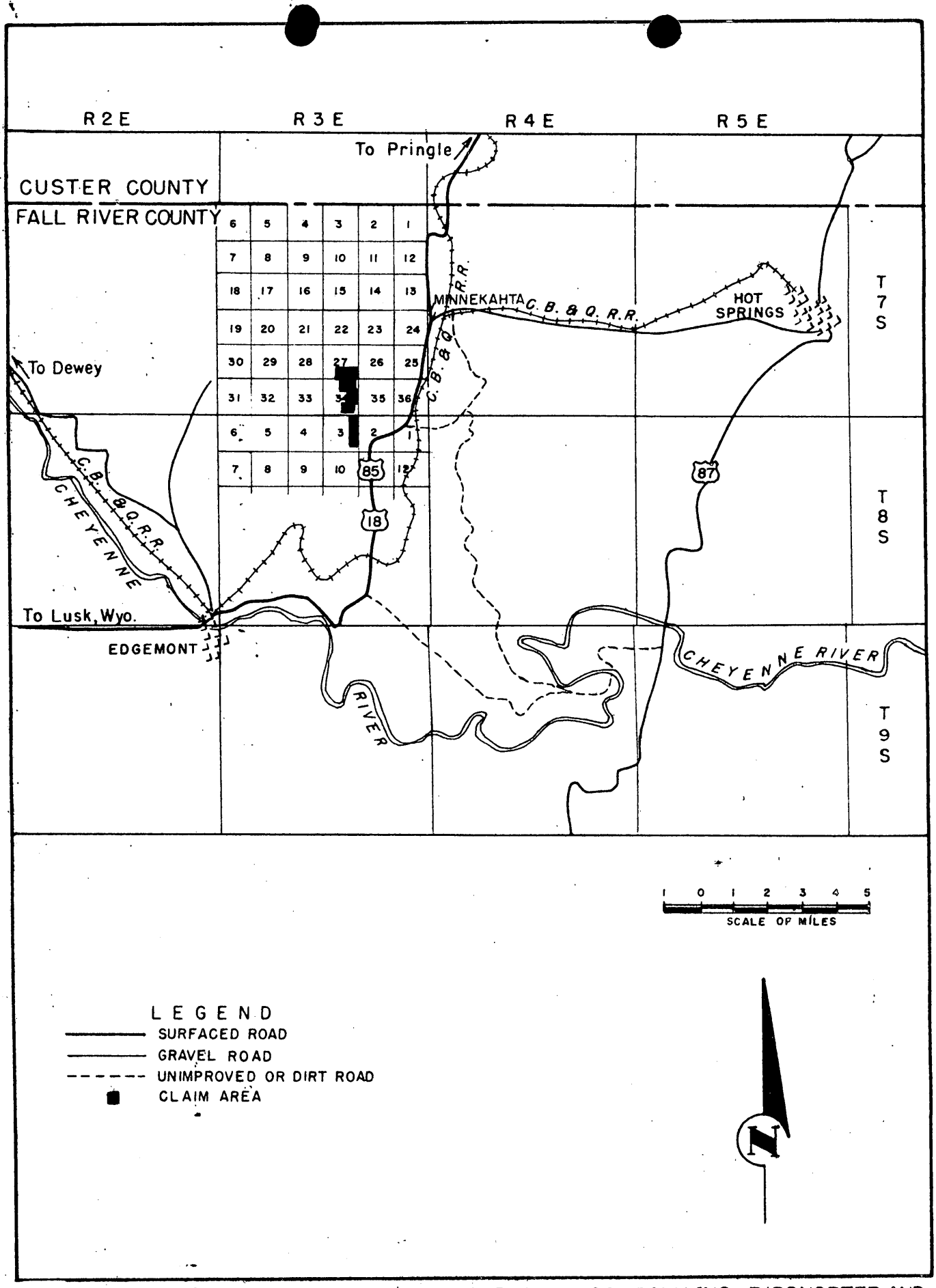


FIGURE 1 - LOCATION MAP, SODAK URANIUM AND MINING COMPANY, INC., RIPSNORTER AND PARKER CLAIMS GROUPS, FALL RIVER COUNTY, SOUTH DAKOTA. DMEA 2857, CONTRACT Idm-E 517

## GEOGRAPHY

The topography of the property is unmarked by any outstanding features. In general, the relief ranges from low to moderate, the southern part being relatively flat, with a few broad shallow draws. From the south the surface rises gradually to an altitude of 4,450 feet at the workings on the Matias Peak No. 1 claim. From here northward the slope steepens and the altitude rises to 4,650 feet on the Morning Glory claim.

The climate is typical of the north-central plains states, with fairly hot, dry summers and moderately cold winters that have short periods of sub-zero temperatures and blizzard conditions. Spring is usually the period of the heaviest snow and rainfall; this can curtail travel over the dirt roads.

Edgemont is the hub of the uranium mining industry in the southern Black Hills; it is the site of a concentration plant that treats uranium ores from the Edgemont district as well as from areas in the northern Black Hills and eastern Wyoming. Having both rail and truck services, Edgemont is a source from which most mining supplies and equipment, and also labor, can be obtained readily.

## HISTORY AND PRODUCTION

All claims included under the contract were located during the summer and early fall of 1952, and were leased almost immediately to the Ortmayer, Sullivan and Boyle partnership. The partnership submitted an application for an exploration loan in December 1952.

Before the application was submitted, radiometric surveys and shallow exploratory drilling by the partnership at places of radiometric anomalies had disclosed a minable deposit on the Matias Peak No. 1 claim. Mining of this deposit was in progress at the time the application was made; approximately 200 tons containing 0.17 percent $U_3O_8$, had been produced up to that time. Between the time the application was submitted and the effective date of the exploration contract, approximately 1,500 tons of ore were mined and shipped from the deposit. According to the operator, the total production from the Matias Peak ore bodies was 2,054 tons having a gross value (including initial production bonus) of $49,723. While the contract was in force, production from the Cycad No. 1 claim, which was included under the contract, was 493.71 short tons and had an average grade of 0.22 percent $U_3O_8$, valued at $16,688.21, including the bonuses.

## OWNERSHIP AND EXTENT

The two separate groups of 12 and 8 lode mining claims, known respectively as the Ripsnorter and Parker groups, were originally leased under three different lease agreements to the partnership composed of C. G. Ortmayer, R. G. Sullivan, and Clyde R. Boyle, P. O. Box 330, Edgemont, South Dakota. By an assignment dated June 6, 1955, the partnership transferred all leases and rights in the property, as well as its interest and obligations under the DMEA contract, to the Sodak Uranium and Mining Co., Inc., a Delaware corporation with C. R. Boyle as president and offices in the Evans Hotel Annex, Hot Springs, South Dakota.

Of the 12 contiguous claims in the Ripsnorter group, 10 claims were held under a lease from the Fall River Mining Co., a South Dakota corporation, for which Paul H. Russell signed as trustee and attorney-in-fact; these were the Ripsnorter No. 1, Ripsnorter No. 2, Morning Glory, Matias Peak No. 1, Matias Peak No. 2, Cycad No. 1, Cycad No. 2, Schoonmaker No. 1, Schoonmaker No. 2, and Gerner's Folly claims. The Montana No. 1 and Montana No. 2 claims of the Ripsnorter group were leased from Alva H. Schnea, Chas. H. Frasier, and Amos C. Clark, the owners.

The Parker group of claims (fig. 3), comprising six full claims known as Parker No. 1 through No. 6, and two fraction claims, the

Parker Nos. 7 and 8, were leased from Earl Bomer, Charles H. Frazier, and Willard Beard, the owners.

The claims are listed below in Table 1, as recorded at the Office of the Register of Deeds for Fall River County, at Hot Springs, South Dakota, with the date of recording and the Book and page numbers on which they are recorded.

Table 1.--Claims of Ripencorter and Parker groups

| Claim No. | Date of record | Book | Page |
|---|---|---|---|
| Ripencorter No. 1 | 5/19/52 | 31 misc. | 157 |
| " " " 2 | " | " " | 157 |
| Garner's Folly | " | " " | 156 |
| Morning Glory | " | " " | 158 |
| Montana No. 1 | 9/11/52 | " " | 346 |
| " " 2 | " | " " | 346 |
| Matias Peak No. 1 | 5/19/52 | " " | 155 |
| " " " 2 | " | " " | 155 |
| Cycad No. 1 | " | " " | 157 |
| " " 2 | " | " " | 154 |
| Schoemaker No. 1 | " | " " | 158 |
| " " " 2 | 10/13/52 | " " | 502 |
| Parker No. 1 | 6/9/52 | " " | 308 |
| " " 2 | " | " " | 309 |
| " " 3 | " | " " | 309 |
| " " 4 | " | " " | 309 |
| " " 5 | " | " " | 310 |
| " " 6 | " | " " | 310 |
| " " 7 | 11/18/52 | " " | 199 |
| " " 8 | " | " " | 199 |

The total area of the 20 claims is approximately 367 acres, of which 238.3 acres are included in the Ripsnorter group and 128.7 acres in Park group.

## DESCRIPTION OF WORKINGS

Workings on the property at the time of the application consisted of small discovery pits and an opencut located on the south side of the westernmost mineralized zone (figs. 2 and 3). The opencut was approximately 12 feet wide, 100 feet long, and an average of about 15 feet deep. North of the opencut the surface had been bulldozed off over an area of about 500 square feet.

## GEOLOGY

### District setting

The Edgemont mining district lies on the southwest flank of the Black Hills, and is underlain by Jurassic and Cretaceous sedimentary rocks that have been tilted to a regional southwest dip on which are superimposed many smaller folds. The formations exposed at the surface in the district are tabulated in the following stratigraphic section:

| | | |
|---|---|---|
| Lower Cretaceous | Skull Creek shale and Inyan Kara group | (includes Fall River sandstone, Fuson shale, Minnewaste limestone, and Lakota sandstone |
| Upper Jurassic | Morrison formation | |

----------UNCONFORMITY----------

| | |
|---|---|
| Upper Jurassic | Sundance formation |

Uranium ore has been produced in the district from the Fall River sandstone and the Lakota sandstone; the beds separating these two formations are generally very thin, so that exploration for ore in both sandstones can be limited to a vertical range usually less than 300 feet. Furthermore, since these two formations lie directly or closely under the surface in much of the Edgemont district, there are broad areas wherein all of the potential ore horizons can be penetrated by relatively shallow drilling.

## Project area

Most of the area covered by the Ripsnorter and Parker claim groups is underlain by the Lakota sandstone, which consists of a composite sandstone unit about 150 feet thick underlain and overlain by carbonaceous shale. The sandstone unit comprises two or possibly three sandstone beds separated by thin mudstone lenses; at Matias Peak it consists of a lower sandstone, an interbedded

mudstone and sandstone lens, and an upper sandstone. The middle unit is discussed in more detail under "Results of the Project." Uranium ore has been mined from both the lower and upper sandstones.

## Geologic basis for exploration

The original proposal for exploration was based in general on the presence of formations known to be mineralized nearby, and specifically on the presence of two surface areas of anomalous radioactivity. After the project had been started, the results of detailed Geological Survey mapping in the Matias Peak area became available; they showed that many uranium deposits occur on gentle monoclinal flexures or minor anticlines, and pointed to the advisability of drilling on the unexplored portion of a gentle anticline that plunges southwest across the Matias Peak area (fig. 4). Amendment No. 2, which authorized drilling in the Montana No. 1 and Matias Peak No. 1 claims, was based on this recommendation.

In February 1956 the Geological Survey recommended exploration of the basal unit of the Lakota sandstone underlying the Parker claims. The local geographic distribution of ore deposits was believed to correspond roughly with the trend of the Sheep Canyon monocline, a major geologic structure in the southern Black Hills; there was evidence that a zone near, and parallel to, the monoclinal axis was particularly favorable as a site for ore deposition. Regional mapping had shown that the axis of the monocline

swings eastward approximately 4,000 feet west of the Parker claims and should eventually cross them. In addition to this favorable feature of the location of the claims, they are also in an area underlain by a major facies change in the basal Lakota sandstone: southwest of the claims the basal unit of the Lakota is a massive sandstone 100 feet thick, whereas northeast of the claims the unit is composed of thin-bedded sandstones and mudstones. A facies change of this type has been regarded as a favorable site for localization of ore deposits on the Colorado Plateau and there is some evidence that this criterion is valid in the Black Hills. In view of these structural and stratigraphic features it was recommended that the basal unit of the Lakota in the Parker area be explored under Stage II by five holes drilled to a depth of 350 feet on Parker claims Nos. 4 and 5. The operator had already drilled seven 300-feet holes in this area at his own expense, but they followed a trend roughly parallel to the monoclinal axis and were therefore poorly located to check a projection of the axis; the recommended holes were nearly transected the axis (fig. 5). This recommendation was followed only in part: three holes were drilled near those recommended, at the operator's expense, with unfavorable results. The contract was terminated shortly thereafter.

## APPLICANT'S PROJECT PROPOSAL

The applicant proposed an extensive exploration program consisting of 1,600 wagon-drill holes (50,000 lineal feet) on 40-foot centers. Holes were to average 30 feet in depth with a maximum depth of 100 feet. The choice of drill areas was based on: 1) scintillometer surveys, 2) proximity to known ore bodies, 3) presence of favorable ore horizons at or near the ground surface.

## PROJECT OPERATIONS

### Description of contract

The contract originally provided for a two-stage wagon-drilling exploration program designed to explore the Lakota formation underlying the Ripsnorter and Parker claims groups for deposits of uranium ore. Under Stage I, two areas (areas 1 and 2, fig. 2) in the Ripsnorter claim group which were considered favorable on the basis of the surficial radioactivity anomalies and limited geologic information were to be explored by drilling a maximum of 12,500 feet of wagon-drill holes. The holes were to be drilled on a rectangular grid pattern with a spacing of 100 feet in a north-south direction and 50 feet east and west. The depth estimated to reach the desired target was 30 feet, but one hole in 10, or a hole in each 50,000 square feet, was to be drilled to a depth of 100 feet to test the

lower part of the formation. The diameter of the holes, sampling methods and handling of samples were subject to approval of the Government. Analyses of 100 samples for uranium were authorized for this stage of the program.

Under Stage II, 24,500 feet of wagon drilling was authorized for exploring three areas on the Parker claim group, and other areas on the property if approved in advance by the Government. The grid pattern or hole spacing as well as the sampling method were, unless modified by agreement, to be the same as authorized for Stage I. Two hundred sample analyses were authorized for Stage II.

The authorized maximum footage and expenditures, with unit costs for drilling and analyses for Stages I and II, are as follows:

**Stage I**

| | | |
|---|---|---|
| 12,500 feet wagon drilling at $1.04 per foot | $13,000.00 | |
| 100 sample analyses at $4 each (includes freight and postage) | 400.00 | |
| Total Stage I | | $13,400.00 |

**Stage II**

| | | |
|---|---|---|
| 24,500 feet wagon drilling at $1.01 per foot | $24,745.00 | |
| 200 sample analyses at $4 per sample (includes freight and (postage) | 800.00 | |

| | | |
|---|---|---|
| Total Stage II | $25,545.00 | |
| Total Stage I and Stage II | | $38,945.00 |
| Government participation at 90 percent | | $35,050.00 |

## Description of contract amendments

In all, four amendments to the contract were approved while the project was active. Amendments No. 1, No. 3, and No. 4 extended the time for completion of the contract to November 11, 1954, May 7, 1955, and October 1, 1955, respectively. Amendment No. 2 permitted the drilling of a third area (area 3, figs. 2 and 4) and also reallocated a part of the drilling footage allowed for Stage II of the original contract to a second phase of Stage I drilling. This amendment, as well as Amendments Nos. 1, 3, and 4, did not alter either the unit cost or total expenditures as stipulated in the original contract.

An outline of Exhibit A of Amendment No. 2 is given below.

### Stage I

Phase I Terms as to location, spacing of the holes are the same as for Stage I of the original contract. The authorized footage is reduced from 12,500 feet to 8,596.5 feet.

Phase II (a) Allows for drilling approximately 100 holes to an approximate depth of 130 feet in area 3 shown on figure 4.

(b) Deepening of holes nos. 159, 160, 161, 162, 178, 179, 181, and 219 through 239 which were drilled under Stage I and allocated to Stage I, Phase I.

The reallocated footages, cost per foot and authorized expenditures as stipulated in Amendment No. 2 for Stage I, Phase I and II, and Stage II are:

Stage I

| | | | |
|---|---|---|---|
| Phase I | 8,996.5 feet wagon drilling at $1.04 per foot | $ 8,940.36 | |
| | 14 sample analyses including freight and postage at $4 per sample | 56.00 | |
| Total Phase I | | | $ 8,996.36 |
| Phase II | The first 5,903.5 feet wagon drilling at $1.04 per foot | $ 4,099.64 | |
| | Remaining 11,696.5 feet wagon drilling at $1.01 per foot | 11,813.46 | |
| | 286 sample analyses including freight and postage at $4 per sample | 1,144.00 | |
| Total Phase II | | | $17,017.10 |

Total authorized footage Stage I, Phases I and II - 24,196.5 feet.

## Stage II

12,803.5 feet wagon drilling at $1.01 per ft. $12,931.54

| | |
|---|---|
| Total Stage I and Stage II | $38,945.00 |
| Government share at 90 percent participation | $35,050.50 |

Total authorized footage for Stage I and Stage II - 37,000 feet.

## Description of work performed

Wagon drilling under Stage I (unamended) was started in drill area 2 on the Schoonmaker Nos. 1 and 2 claims of the Riyumarter group, with the drilling of hole no. C-1, on June 15, 1953. Drilling continued in this area and in the area on the Montana Nos. 1 and 2 claims (area 1) without interruption, except for a few short delays to repair equipment, until October 5, 1953. During this period 261 wagon-drill holes having an average depth of 32.9 feet, or a total of 8,596.5 feet, were drilled in the two drill areas, 81 holes with a total footage of 2,391 feet being drilled on the Montana claims, and 180 holes on the Schoonmaker Nos. 1 and 2, Gerner's Folly and Matias Peak No. 2 claims.

Results of the drilling were unfavorable. Probing indicated radioactivity in only 11 of the 261 holes, and from a check of the cuttings with a counter, only 8 of the 11 showed radioactivity that

seemed strong enough to warrant chemical analyses. Fourteen samples of 3-foot intervals, from the 8 holes, were analyzed for $U_3O_8$. The results are as follows:

| Hole No. | Depth (feet) | Thickness (feet) | $U_3O_8$ (percent) |
|---|---|---|---|
| C- 75 | 27-30 | 3 | 0.114 |
| C- 86 | 12-15 | 3 | 0.088 |
| C- 89 | 26-29 | 3 | 0.086 |
| | 29-32 | 3 | 0.102 |
| C-100 | 24-27 ? | 3 | 0.086 |
| C-102 | 15-18 | 3 | 0.020 |
| | 18-21 | 3 | 0.020 |
| | 21-24 | 3 | 0.060 |
| C-103 | 9-12 | 3 | 0 |
| | 12-15 | 3 | 0 |
| C-104 | 3-6 | 3 | 0 |
| | 6-9 | 3 | 0.076 |
| | 9-12 | 3 | 0.090 |
| C-180 | 15-18 | 3 | 0.065 |

Offset drilling to these mineralized holes, and a bulldozer cut 18 feet deep and 60 feet wide, that extended from holes no. 75 to 77, did not disclose minable-grade ore. Negative results were also obtained from offset holes drilled around holes nos. 195, 201, 265, 266, and 272, in which probing and a check of the cuttings with a counter had indicated radioactivity of two to seven times background (on the 5th scale of a model 600 Babbel counter) over thicknesses of 2 to 21 feet. In addition to the offset holes, the operator further explored the area with a rim cut at the same altitude as the mineralized horizon in the holes. The cut is located about 60 feet from, and parallel to, a line connecting holes nos. 102, 266, and 272. No evidence of uranium mineralization was exposed by the cut. This offset drilling and dozer work was done at the operator's expense and not under the contract.

Some time prior to completion of the drilling under Stage I of the unamended contract, the operator requested an amendment to permit exploration of an anomalous area in the southeastern part of the Ripsnorter No. 1 claim using all or a part of approximately 5,000 feet of drilling that remained under Stage I. On October 13, an interim report was prepared recommending that the amendment be approved for 1,500 feet of drilling in this area. Exploration of a lower stratum in areas on the Matias Peak No. 2 and Cycad No. 2 claims as requested by the operator was not recommended.

The proposed Amendment No. 1 was forwarded to the operator for signing on October 22, 1953, but it was not until November 19 that it was learned that the operator did not wish to sign the amendment, and instead planned to terminate work on the project. From November 1953 until April 20, 1954, the project was inactive pending submission of data for a proposed amendment to permit drilling to a depth of 130 feet in an area northwest of the Cyead ore body. In May 1954 the proposed drilling was discussed with the operator, and on the basis of the additional geologic information obtained by detailed mapping of the area by the U. S. G. S., an interim report was made, recommending exploration of area 3 within the Montana No. 1 and Matina Peak No. 1 claims, north of the area explored under Stage I (unamended). Also, a part of the area explored under Stage I (unamended) was to be drilled to the same lower horizon that would be explored by the drilling proposed for the area to the north.

Prior to May 7, 1954, and at about the time the operator requested the work mentioned in the preceding paragraph, he requested an amendment to extend the time for completion of the contract for six months, or until November 7, 1954. This amendment (Amendment No. 1, dated May 4, 1954, and the first amendment to be executed) was approved.

Amendment No. 2, to permit drilling on the Montana No. 1 and Matias Peak No. 1 claims in the area north of the area drilled on these claims under Stage I (unamended), became effective in July 1954. Under this amendment two phases of drilling were allowed under Stage I, a part of the footage for Stage II being allocated to Phase II of Stage I, as outlined under "Description of contract amendments."

Work on the project was resumed August 16, 1954, in the area designated by Amendment 2 (area 3). The delay between the execution of Amendment No. 2 and the resumption of drilling was caused by the failure of the operator to obtain a larger drill with which he had planned to do the deeper drilling, and it was necessary finally to contract the drilling to a local drilling contractor. This contractor, after completing 3,315 feet of drilling in 27 holes in the area, terminated his contract, claiming he was losing money on the drilling. The drilling contract was terminated on very short notice, and as the operator did not have a drill capable of drilling to the target depth, the project was perforce recessed until another drill rig could be obtained. It was not until mid-March 1955 that the drill was brought in and the work of the project was resumed. Drilling continued intermittently throughout the latter part of March, and throughout April and May, but little progress was made. Only nine holes, numbered 28 through 36, with a total footage of 1,217

feet, were drilled during the 2-1/2 month period. The poor progress was due in part to bad weather and equipment breakdown, but mainly to the failure of the operator to properly supervise and impel the drilling.

Results of exploration of the area designated under Amendment 2 were negative - none of the first 27 holes showed any radioactivity, and of the remaining 9 holes, only two (holes nos. 28 and 30) were reported to have cut radioactive zones. Two offset holes were drilled, 25 feet east and west of hole 28; and hole 30 was offset with four holes 25 feet north, south, east, and west. Probing and a check of the cuttings indicated no radioactive material in the two holes offsetting hole 28, and only slightly radioactive material in the four offset holes around hole no. 30, at the same horizon as in hole no. 30. The offset holes were drilled by the operator at his expense and were not included in the contract drilling.

Following the completion of hole no. 36, the work and results of the project were discussed with the operator who, on the basis of the poor results thus far obtained, expressed the intent to discontinue drilling on the Ripsnorter group and to request an amendment to permit some drilling on the Parker claim group. In the discussion it was mentioned that the operator should assemble all data, and prepare maps with geologic sections through the holes thus

far drilled, in order to better determine whether or not additional exploration was warranted. If so, then the location and number of holes to be drilled could be chosen more intelligently and an amendment, if necessary could be drawn up to permit a change in the number and location of these holes. There was a delay of two months before the operator had the data assembled and finally expressed his intent to continue the drilling. Also, at about this time, the operator again stated that he would request an amendment to explore other areas on the property included under the contract, as well as on the Parker claims. Drilling on the Montana No. 1 and Matias Peak No. 1 claims, in the area designated under Amendment No. 2, was resumed August 9, 1955.

From August 9 through August 18, 1955, a total of 2,226 feet were drilled in the 18 holes numbered 37 through 54. Hole no. 54, which was drilled to a depth of only 16 feet, was disallowed. None of the holes showed radioactivity indicating ore-grade mineralization. Probing with a Babbel Model 610 counter and an Esterline Augus gamma-ray logging instrument showed only three holes with any radioactivity: hole no. 46, with 1,200 and 840 counts per minute at depths of 26 and 44.5 feet, respectively; hole no. 48 with 1,750 counts per minute at a depth of 36.5 feet; and hole no. 49 with 600 counts per minute at a depth 22.5 feet. The highest count of 1,750 per minute indicates mineralization below ore grade.

Because of the negative results of the drilling under Stage I (unamended) and from the 54 holes drilled under Phase II of Stage I (amended), the operator decided to do no further drilling in the area. In a monthly report of September 27, 1955, covering the drilling done in August, he stated that he would request an amendment to permit additional drilling in other areas on the property included under the contract. Although the operator failed to submit the request by October 1, 1955, the expiration date of the contract, no action was taken to terminate the contract, as the operator had on several occasions, both orally and in writing, expressed his intent to request an amendment to permit additional drilling in other areas on the property. However, several months passed, and as the operator had not submitted the request, he was advised in a letter dated February 9, 1956, that action on closing the accounts of the project would be deferred until March 1, 1956, to allow him time to submit plans for the additional drilling he had previously mentioned.

During February 1956 the members of the examining team prepared separate memorandum reports with recommendations as to further drilling on the property under the contract. The Bureau of Mines engineer recommended that no further drilling be done and that the project be terminated. The recommendations of the Geological Survey's member of the team, based on geologic data obtained from regional mapping

which had been recently completed, were for exploration of a part of the area included by the Parker Nos. 4 and 5 claims. He recommended that approximately 1,750 feet be drilled in five holes, two holes to be drilled on the Parker No. 5 claim and three on the Parker No. 4, near the western side lines of each claim (fig. 5). Locations of these holes were such as to explore along the trend of and near the axis of the Sheep Canyon monocline, a major geologic structure in the southern Black Hills which is considered favorable for ore deposition. Also, the holes would be drilled in an area in which there may be a major facies change in the basal Lakota formation, a condition considered favorable for localization of ore deposits.

At company expense the operator drilled 2,923 feet in ten holes on the Parker Nos. 3, 4, and 5 claims; the holes were located as shown in figure 5. Two of the ten holes, the Parker No. 2 and Parker No. 3, were drilled near locations recommended in the interim geologic report submitted on February 13, 1956. No significant radioactivity was found in any of these ten holes. As a result, the operator decided that further exploration was not warranted, either under the contract or at company expense, and requested termination of the contract. The contract was allowed to expire as of October 1, 1955.

All contract drilling was done under Stage I, Phases I and II of the contract as amended. Of the total of 24,196.5 feet allowed

for drilling under Stage I, only 15,334.5 feet were drilled. No drilling was done under Stage II.

## Chronological summary of project

| | | |
|---|---|---|
| 1952 | November | Application for DMEA loan. |
| | December 4 | Property examined by field team. |
| 1953 | May 7 | Effective date of contract Idm-E 517. |
| | June 15 to October 5 | Drilling started on Schoonmaker 1 and 2, continued there and on Montana 1 and 2, Gerner's Folly, and Matias Peak 2. Total 261 holes, aggregate depth 8,396.5 feet, average 32.9 feet. Probing showed radioactivity in 11 holes; 14 samples analyzed from 8 holes gave negative results; offset drilling and a deeper cut, at operator's expense, also gave negative results. |
| | October 22 | Amendment sent to operator for exploration of anomaly in SE part of Riyenmarter No. 1. |
| | November 19 | Operator indicated he did not wish to sign amendment but wanted to terminate. |
| | November to 1954 April 20 | Project inactive, pending proposal of amendment to permit drilling NW of Cyoad ore body. |
| | May 4 | Amendment No. 1 approved, extending completion date to November 7, 1954. |

| | | |
|---|---|---|
| | May | Team recommended exploration of an area within Montana 1 and Matias Peak 1 claims, north of area explored under Stage I, and exploration of part of Stage I area to deeper horizon. |
| | July | Amendment No. 2 approved, authorizing drilling as recommended in May. |
| | August 16 | Work resumed; delay due to operator's failure to obtain a larger drill for deeper drilling; drilling was finally contracted. |
| | October | 27 holes completed, total 3,515 feet. Driller terminated his contract on short notice; project recessed. |
| | November 2 | Amendment No. 3 approved, extending completion date to May 7, 1955. |
| 1955 | March | New drill rig obtained, project resumed. |
| | March to May | 9 holes completed, total 1,217 feet. Poor progress due to bad weather, breakdown of equipment, and failure of operator to supervise properly. Negative results in area of Amendment 2. |
| | May | Operator expressed intent to discontinue in area of Amendment 2 and to request amendment to permit drilling on Parker claim group. |

| | | |
|---|---|---|
| | May 25 | Amendment No. 4 approved, extending completion date to October 1, 1955. |
| | June 6 | Contract transferred to Sodak Uranium and Mining Co., Inc. |
| | August 9 | Drilling resumed on Montana 1 and Matias Peak 1 claims, in area of Amendment 2. |
| | 9-18 | 18 holes drilled, total 2,226 feet. Negative results. |
| | September 27 | Operator expressed intent to request amendment to permit additional drilling in other area. |
| | October 1 | Expiration date of contract (see under March 19, 1956). |
| 1956 | February 9 | Operator was advised that action on closing of accounts would be deferred until March 1, to allow him time to submit formal request for additional drilling. |
| | 13 | Bureau of Mines recommended termination; Geological Survey recommended 1,750 feet of drilling in 5 holes on Parker claims, based on recent U. S. G. S. mapping. |
| | February | Operator drilled 10 holes (at his expense), in part as recommended by Geological Survey; negative results. Operator requested termination of contract. |
| | March 19 | Field Team recommended that contract be allowed to expire as of October 1, 1955. |

## Cost of project

A summary of footages and costs for the work completed under Stage I, Phases I and II is given in Table 2.

### Table 2.--Summary of footages and costs

| Phase | Date drilled | No. of holes | Footage drilled | Cost per foot | Expenditures |
|---|---|---|---|---|---|
| I | June-Oct. 1953 | 261 | 8,596.5 | $1.04 | $ 8,940.36 |
| II | Aug.-Sept. 1954 | 27 | 3,315.0 | 1.04 | 3,447.60 |
| II | Mar.-May 1955 | 9 | ( 588.5<br>( 628.5 | 1.04<br>1.01 | 612.04<br>634.79 |
| II | Aug. 1955 | 18 | 2,886.0 | 1.01 | 2,848.86 |
| | Total | 315 | 15,354.5 | | $15,883.05 |
| | Disallowance under Phase II | 1 | 16.0 | $1.01 | $ 16.16 |
| | Totals | 314 | 15,338.5 | | $15,866.89 |
| | Total payments by the Government at 90 percent | | | | $14,280.21 |

A report of review in lieu of a final audit, with a letter recommending that the contract be allowed to expire as of the expiration date of October 1, 1955, was submitted to the Operating Committee March 19, 1956. The review approved expenditures of $15,866.89 and the Government's share of $14,280.21 as shown in Table 2 above.

## RESULTS OF THE PROJECT

Exploratory drilling completed under the contract resulted in the discovery of only 130 tons of indicated and 70 tons of inferred ore with a grade of 0.114 percent $U_3O_8$. No concentrations of uranium minerals in minable grade, nor any anomalous radioactivity indicating the presence of such deposits in the areas drilled, were disclosed by the drilling. Study of the drill cuttings clarified the stratigraphy of the middle sandstone unit of the Lakota sandstone in the Montana No. 1 and Matina Peak No. 1 area; this information is summarized in an isopach map (fig. 6).

## ORE RESERVES

Ore reserves resulting from the exploratory drilling under the contract are limited to a single deposit with an estimated 130 tons of indicated ore and 70 tons of inferred ore, containing 0.114 percent $U_3O_8$; this deposit was penetrated in hole no. 75 at a depth of 27 to 30 feet.

Reserves of protore or near-ore-grade material are calculated in three blocks on the basis of assays of cuttings from holes nos. 86, 89, and 100, and 104; they total an estimated 860 tons of indicated protore and 1,470 tons of inferred protore, containing 0.086 to 0.094 percent $U_3O_8$.

The method of calculation of these reserves, and the data on which they are based, are given in figure 7 and Table 3.

Table 3.--Calculation of ore and protore reserves

| Hole No. | Depth ft. | Area sq. ft. | Thickness ft. | Volume cu. ft. | Wt. tons (rounded) | Grade $\%U_3O_8$ | Type |
|---|---|---|---|---|---|---|---|
| | | | ORE | | | | |
| 75 | 27-30 | 625 | 3 | 1,875 | 130 | 0.114 | Ind. |
| | | 312 | 3 | 937 | 70 | 0.114 | Inf. |
| | | | PROTORE | | | | |
| 86 | 12-15 | 625 | 3 | 1,875 | 130 | 0.088 | Ind. |
| | | 1,875 | 3 | 5,625 | 400 | 0.088 | Inf. |
| 89 | 26-32 | 937 | 6 | 5,622 | 400 | 0.094 | Ind. |
| | | 1,562 | 6 | 9,372 | 670 | 0.094 | Inf. |
| 100 | 24-27 | 937 | 3 | 2,811 | 200 | 0.086 | Ind. |
| | | 1,562 | 3 | 4,686 | 335 | 0.086 | Inf. |
| 104 | 9-12 | 625 | 3 | 1,875 | 130 | 0.090 | Ind. |
| | | 312 | 3 | 937 | 70 | 0.090 | Inf. |

TOTALS

| | Hole Nos. | Indicated | Inferred | Grade |
|---|---|---|---|---|
| ORE | 75 | 130 | 70 | 0.114 |
| PROTORE | 89, 100 | 600 | 1,000 | 0.091 |
| | 104 | 130 | 70 | 0.090 |
| | 86 | 130 | 400 | 0.088 |

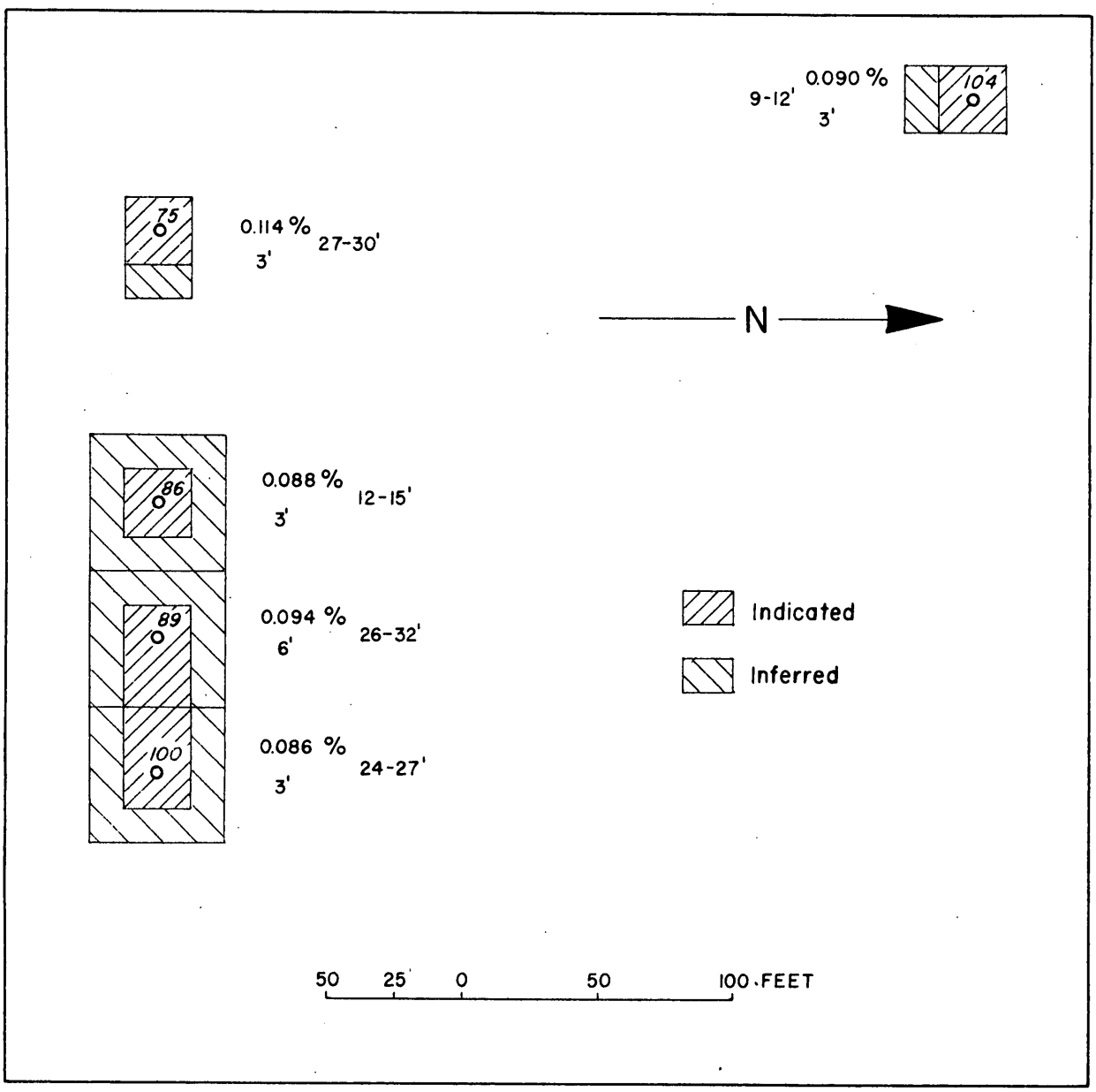


FIGURE 7. ORE AND PROTORE RESERVES, SCHOONMAKER NO. 2 CLAIM

DMEA DOCKET 2857

## CONCLUSIONS AND RECOMMENDATIONS

Exploratory drilling completed under the contract did not result in a discovery of any significant uranium ore deposits, nor did the drilling disclose radioactive mineralization that might indicate the presence of a significant deposit of uranium minerals in the areas drilled. Progress of the project was slow caused in part by adverse weather and faulty equipment, but mainly by poor supervision and an apparent lack of interest on the part of the management. As a result, almost three years were required to complete the project, and the contract was amended on three occasions to extend the date for completion.

In all, a total of 15,554.5 feet was drilled in the 315 holes drilled under the contract; payment, however, was for 15,538.5 feet as one 16-foot hole was disallowed. Fourteen samples from project holes were analyzed, but were not charged to the contract as the company assumed the cost. Total expenditures for the work completed under Stage I, Phases I and II, as approved in an audit review dated March 19, 1956, were $15,866.89, the Government's share at 90 percent amounting to $14,280.20.

The property has been adequately explored, and no further exploration with Government assistance is recommended. It is also

recommended that no certification of a discovery or development be issued as no significant deposits of uranium ore were discovered by the exploratory drilling under the contract.

## ANNEX I

### Drill hole data

### Stage I, Phase I and Phase II

| Hole No. | Hole Depth Feet | Probe Results: Depth From | Depth To | Counter Reading: Hole | Counter Reading: Back-ground | Drill Area | Claim | Remarks |
|---|---|---|---|---|---|---|---|---|
| C- 1 | 100 | 0 | 83 | 4/5 | 4/5 | Block 2 | Schoonmaker 1 | Block numbers correspond to area numbers on fig. 2 |
| C- 2 | 24 | 0 | 17 | " | " | " 2 | " " 1 | |
| C- 3 | 22 | 0 | 20 | " | " | " 2 | " " 1 | |
| C- 4 | 44 | 0 | 45 | " | " | " 2 | " " 1 | |
| C- 5 | 37 | 0 | 38 | " | " | " 2 | " " 1 and 2 | Area of claims overlap |
| C- 6 | 30 | 0 | 27 | " | " | " 2 | | |
| | | 27 | 30 | 10/5 | " | " 2 | " " 1 and 2 | " " " " " |
| C- 7 | 56 | 0 | 13 | 4/5 | " | " 2 | " " 1 and 2 | " " " " " |
| | | | | | | | | Caved? |
| C- 7-1 | 30 | 0 | 30 | " | " | " 2 | " " 1 and 2 | Not charged to contract |
| C- 8 | 30 | 0 | 30 | " | " | " 2 | " " 1 and 2 | Area of claims overlap |
| C- 9 | 48 | 0 | 43 | " | " | " 2 | " " 1 | |
| | | 43 | 44 | 8/5 | " | | | |
| C- 10 | 35 | 0 | 21 | 4/5 | " | " 2 | " " 1 | |
| C- 11 | 64 | - | - | - | - | " 2 | " " 1 | |
| C- 12 | 33 | 0 | 5 | 4/5 | 4/5 | " 2 | " " 1 | |
| C- 13 | 33 | 0 | 25 | " | " | " 2 | " " 1 | |
| C- 14 | 35 | - | - | - | - | " 2 | " " 1 | Caved? |

Drill hole data (continued)

Probe Results

| Hole No. | Hole Depth Feet | Depth From | Depth To | Counter Reading Hole | Counter Reading Back-ground | Drill Area | Claim | Remarks |
|---|---|---|---|---|---|---|---|---|
| C- 15 | 86.5 | 0 | 10 | 8/5 | 4/5 | Block 2 | Schoonmaker 1 | |
| | | 10 | 27 | 4/5 | " | | | |
| C- 16 | 36 | 0 | 11 | 4/5 | " | " 2 | " " 1 and 2 | Area of claims overlap |
| | | 11 | 17 | 6/5 | " | | | |
| | | 17 | 31 | 4/5 | " | | | |
| C- 17 | 30 | 0 | 30 | 4/5 | " | " 2 | " " 1 and 2 | " " " " " |
| C- 18 | 30 | 0 | 8 | 4/5 | " | " 2 | " " 1 and 2 | " " " " " |
| | | 8 | 10 | 12/5 | " | | | |
| | | 10 | 13 | 10/5 | " | | | Assay 0.06 percent $U_3O_8$ 12-15' |
| | | 13 | 17 | 16/5 | " | | | Assay 0.065 percent $U_3O_8$ 15-18' |
| | | 17 | 23 | 4/5 | " | | | |
| | | 23 | 27 | 10/5 | " | | | |
| C- 19 | 36 | 0 | 21 | 4/5 | " | " 2 | " " 1 | |
| C- 20 | 36 | 0 | 26 | " | " | " 2 | " " 1 | |
| C- 21 | 72 | 0 | 45 | " | " | " 2 | " " 1 | |
| C- 22 | 36 | 0 | 30 | " | " | " 2 | " " 1 | |
| C- 23 | 33 | 0 | 23 | " | " | " 2 | " " 1 | |
| C- 24 | 33 | 0 | 24 | " | " | " 2 | " " 1 | |

Drill hole data (continued)

| Hole No. | Hole Depth Feet | Probe Results: Depth From | Depth To | Counter Reading: Hole | Counter Reading: Back-ground | Drill Area | Claim | Remarks |
|---|---|---|---|---|---|---|---|---|
| C- 25 | 30 | 0 | 5 | 4/5 | 4/5 | Block 2 | Schoonmaker 1 | |
| C- 26 | 54 | 0 | 8 | " | " | " 2 | " " 1 | |
| C- 27 | 30 | 0 | 13 | " | " | " 2 | " " 1 | |
| C- 28 | 36 | 0 | 30 | " | " | " 2 | " " 1 | |
| C- 29 | 54 | 0 | 28 | " | " | " 2 | " " 1 | |
| | | 28 | 29 | 8/5 | " | " 2 | " " 1 | |
| | | 29 | 46 | 4/5 | " | " 2 | " " 1 | |
| C- 30 | 30 | 0 | 29 | " | " | " 2 | " " 1 | |
| C- 31 | 36 | 0 | 31 | " | " | " 2 | " " 1 | |
| C- 32 | 36 | 0 | 28 | " | " | " 2 | " " 1 | |
| C- 33 | 54 | 0 | 34 | 2/5 | 2/5 | " 2 | " " 1 | |
| C- 34 | 36 | 0 | 28 | " | " | " 2 | " " 1 | |
| C- 35 | 36 | 0 | 28 | " | " | " 2 | " " 1 | |
| C- 36 | 33 | 0 | 25 | " | " | " 2 | " " 1 | |
| C- 37 | 45 | 0 | 38 | " | " | " 2 | " " 1 | |
| C- 38 | 33 | 0 | 26 | " | " | " 2 | " " 1 | |
| C- 39 | 33 | 0 | 27 | " | " | " 2 | " " 1 | |

Drill hole data (continued)

Probe Results

| Hole No. | Hole Depth Feet | Depth From | Depth To | Counter Reading Hole | Counter Reading Back-ground | Drill Area | Claim | Remarks |
|---|---|---|---|---|---|---|---|---|
| C- 40 | 66 | 0 | 56 | 2/5 | 2/5 | Block 2 | Schoonmaker 1 | |
| C- 41 | 30 | 0 | 26 | " | " | " 2 | " " 1 | |
| C- 42 | 33 | 0 | 27 | " | " | " 2 | " " 1 | |
| C- 43 | 33 | 0 | 25 | " | " | " 2 | " " 1 | |
| C- 44 | 54 | 0 | 46 | " | " | " 2 | " " 1 | |
| C- 45 | 33 | 0 | 27 | " | " | " 2 | " " 1 | |
| C- 46 | 30 | 0 | 27 | 4/5 | 4/5 | " 2 | " " 1 | |
| C- 47 | 54 | 0 | 29 | " | " | " 2 | " " 1 | |
| C- 48 | 30 | 0 | 26 | " | " | " 2 | " " 1 | |
| C- 49 | 33 | 0 | 30 | " | " | " 2 | " " 1 | |
| C- 50 | 30 | 0 | 27 | " | " | " 2 | " " 1 | |
| C- 51 | 48 | 0 | 37 | " | " | " 2 | " " 1 | |
| C- 52 | 36 | 0 | 33 | " | " | " 2 | " " 1 | |
| C- 53 | 38 | 0 | 34 | " | " | " 2 | " " 1 | |
| C- 54 | 29 | 0 | 17 | " | " | " 2 | " " 1 | |
| C- 55 | 46 | 0 | 30 | " | " | " 2 | " " 1 | |
| C- 56 | 33 | 0 | 28 | " | " | " 2 | " " 1 | |
| C- 57 | 60 | 0 | 40 | " | " | " 2 | " " 1 | |
| C- 58 | 36 | 0 | 32 | " | " | " 2 | " " 1 | |
| C- 59 | 36 | 0 | 29 | " | " | " 2 | " " 1 | |

Drill hole data (continued)

Probe Results

| Hole No. | Hole Depth Feet | Depth From | Depth To | Counter Reading Hole | Counter Reading Back-ground | Drill Area | Claim | Remarks |
|---|---|---|---|---|---|---|---|---|
| C- 60 | 36 | 0 | 27 | 4/5 | 4/5 | Block 2 | Schoonmaker 1 | |
| C- 61 | 36 | 0 | 33 | " | " | " 2 | " " 1 | |
| C- 62 | 48 | 0 | 28 | " | " | " 2 | " " 1 | |
| C- 63 | 36 | 0 | 31 | " | " | " 2 | " " 1 | |
| C- 64 | 32 | 0 | 30 | " | " | " 2 | " " 1 | |
| C- 65 | 33 | 0 | 30 | 2/5 | 2/5 | " 2 | " " 1 | |
| C- 66 | 36 | 0 | 29 | " | " | " 2 | " " 1 | |
| C- 67 | 33 | 0 | 27 | " | " | " 2 | " " 1 | |
| C- 68 | 33 | 0 | 22 | " | " | " 2 | " " 1 | |
| C- 69 | 54 | 0 | 31 | " | " | " 2 | " " 1 | |
| C- 70 | 36 | 0 | 33 | " | " | " 2 | " " 1 | |
| C- 71 | 48 | 0 | 37 | " | " | " 2 | " " 1 | |
| C- 72 | 30 | 0 | 30 | " | " | " 2 | " " 1 | |
| C- 73 | 32 | 0 | 27 | " | " | " 2 | " " 1 | |
| C- 74 | 18 | 0 | 18 | " | " | " 2 | " " 2 | Very wet hole |

Drill hole data (continued)

| Hole No. | Hole Depth Feet | Probe Results: Depth From | Depth To | Counter Reading: Hole | Counter Reading: Back-ground | Drill Area | Claim | Remarks |
|---|---|---|---|---|---|---|---|---|
| C- 75 | 33 | 0 | 9 | 2/5 | 2/5 | Block 2 | Schoonmaker 2 | |
| | | 9 | 16 | 4/5 | " | | | |
| | | 16 | 20 | 8/5 | " | | | |
| | | 20 | 22 | 12/5 | " | | | |
| | | 22 | 23 | 18/5 | " | | | |
| | | 23 | 25 | 20/5 | " | | | |
| | | 25 | 27 | 10/5 | " | | | Assay 0.114 percent $U_3O_8$ 27-30' |
| | | 27 | 28 | 8/5 | " | | | |
| C- 76 | 28 | 0 | 16 | 2/5 | " | " 2 | " " 2 | |
| | | 16 | 19 | 6/5 | " | | | |
| | | 19 | 21 | 8/5 | " | | | |
| C- 77 | 26 | 0 | 4 | 2/5 | " | " 2 | " " 2 | |
| | | 4 | 8 | 4/5 | " | | | |
| | | 8 | 11 | 8/5 | " | | | |
| | | 11 | 12 | 12/5 | " | | | Final report states - |
| | | 12 | 13 | 25/5 | " | | | same radioactivity as hole |
| | | 13 | 14 | 30/5 | " | | | 75. No assays reported |
| | | 14 | 15 | 15/5 | " | | | |
| | | 15 | 19 | 10/5 | " | | | |
| C-78 | 29 | 0 | 21 | 2/5 | " | " 2 | " " 2 | |
| C-79 | 29 | 0 | 21 | " | " | " 2 | " " | |

Drill hole data (continued)

Probe Results

| Hole No. | Hole Depth Feet | Depth From | Depth To | Counter Reading Hole | Counter Reading Back-ground | Drill Area | Claim | Remarks |
|---|---|---|---|---|---|---|---|---|
| C- 80 | 23 | 0 | 17 | 2/5 | 2/5 | Block 2 | Schoonmaker 2 | |
| C- 81 | 27 | 0 | 10 | " | " | " 2 | " " 1 and 2 | Area of claims overlap |
| | | 10 | 13 | 8/5 | " | | | |
| | | 13 | 18 | 6/5 | " | | | |
| C- 82 | 30 | 0 | 13 | 2/5 | " | " 2 | " " 1 and 2 | " " " " " |
| C- 83 | 33 | 0 | 12 | " | " | " 2 | " " 1 and 2 | " " " " " |
| C- 84 | 33 | 0 | 12 | " | " | " 2 | " " 1 and 2 | " " " " " |
| | | 12 | 16 | 4/5 | " | | | |
| | | 16 | 24 | 10/5 | | | | |
| C- 85 | 51 | 0 | 9 | 2/5 | " | " 2 | " " 1 and 2 | " " " " " |
| C- 86 | 27 | 0 | 21 | " | " | " 2 | " " 1 and 2 | " " " " " |
| C- 87 | 20 | 0 | 14 | " | " | " 2 | " " 1 and 2 | " " " " " |
| C- 88 | 21 | 0 | 20 | " | " | " 2 | " " 1 and 2 | " " " " " |
| C- 89 | 51 | 0 | 17 | " | " | " 2 | " " 1 and 2 | " " " " " |
| | | 17 | 21 | 12/5 | " | | | |
| | | 21 | 22 | 20/5 | " | | | |
| | | 22 | 23 | 75/5 | " | | | |
| | | 23 | 24 | 54/5 | " | | | |
| | | 24 | 25 | 24/5 | " | | | |
| | | 25 | 30 | 15/5 | " | | | Assay 0.086 percent $U_3O_8$ 26-29' |
| | | 30 | 36 | 22/5 | " | | | Assay 0.102 percent $U_3O_8$ 29-32' |
| | | 36 | 46 | 2/5 | " | | | |

Drill hole data (continued)

Probe Results

| Hole No. | Hole Depth Feet | Depth From | Depth To | Counter Reading Hole | Counter Reading Back-ground | Drill Area | Claim | Remarks |
|---|---|---|---|---|---|---|---|---|
| C- 90 | 36 | 0 | 33 | 4/5 | 4/5 | Block 2 | Schoonmaker 1 and 2 | Area of claims overlap |
| C- 91 | 30 | 0 | 30 | " | " | " 2 | " " 1 and 2 | " " " " " |
| C- 92 | 33 | 0 | 22 | " | " | " 2 | " " 1 and 2 | " " " " " |
| C- 93 | 51 | 0 | 23 | " | " | " 2 | " " 1 and 2 | " " " " " |
| C- 94 | 33 | 0 | 28 | " | " | " 2 | " " 1 and 2 | " " " " " |
| C- 95 | 51 | 0 | 47 | " | " | " 2 | " " 1 | " " " " " |
| C- 96 | 36 | 0 | 33 | 4/5 | 4/5 | " 2 | " " 1 and 2 | " " " " " |
| C- 97 | 69 | 0 | 66 | " | " | " 2 | " " 1 and 2 | " " " " " |
| C- 98 | 36 | 0 | 34 | " | " | " 2 | " " 1 and 2 | " " " " " |
| C- 99 | 36 | 0 | 21 | " | " | " 2 | " " 1 and 2 | " " " " " |
| C-100 | 30 | 0 | 28 | " | " | " 2 | " " 1 and 2 | " " " " " |
| C-101 | 20 | 0 | 17 | " | " | " 2 | " " 1 | " " " " " |
| C-102 | 28 | 0 | 4 | " | " | " 2 | " " 2 | |
| | | 4 | 19 | 8/5 | " | | | |
| | | 19 | 20 | 18/5 | " | | | Assay 0.02 percent $U_3O_8$ 15-18' |
| | | 20 | 21 | 22/5 | " | | | Assay 0.02 percent $U_3O_8$ 18-21' |
| | | 21 | 22 | 12/5 | " | | | Assay 0.06 percent $U_3O_8$ 21-24' |
| C-103 | 33 | 0 | 30 | 4/5 | " | " 2 | " " 2 | Assay 0.0 percent $U_3O_8$ 9-12' |
| | | | | | | | | Assay 0.0 percent $U_3O_8$ 12-15' |

Drill hole data (continued)

Probe Results

| Hole No. | Hole Depth Feet | Depth From | Depth To | Counter Reading Hole | Counter Reading Back-ground | Drill Area | Claim | Remarks |
|---|---|---|---|---|---|---|---|---|
| C-104 | 27 | 0 | 6 | 4/5 | 4/5 | Block 2 | Schoonmaker 2 | |
| | | 6 | 7 | 8/5 | " | | | Assay 0.076 percent $U_3O_8$ 6-9' |
| | | 7 | 8 | 20/5 | " | | | Assay 0.125 percent $U_3O_8$ 9-12' |
| | | 8 | 9 | 30/5 | " | | | |
| | | 9 | 10 | 65/5 | " | | | |
| | | 10 | 14 | 10/5 | " | | | |
| | | 14 | 20 | 4/5 | " | | | |
| C-105 | 24 | 0 | 21 | " | " | " 2 | " " 2 | |
| C-106 | 23 | 0 | 22 | " | " | " 2 | " " 2 | |
| C-107 | 15 | 0 | 10 | " | " | " 2 | " " 2 | |
| C-108 | 33 | 0 | 31 | 28/5 | 28/5 | " 2 | " " 2 | |
| C-109 | 9 | 0 | 6 | 27/5 | 28/5 | " 2 | " " 2 | |
| C-110 | 9 | 0 | 7 | 26/5 | " | " 2 | " " 1 and 2 | Area of claims overlap |
| C-111 | 36 | 0 | 33 | 26/5 | " | " 2 | " " 1 and 2 | " " " " " |
| C-112 | 36 | 0 | 34 | 28/5 | " | " 2 | " " 1 and 2 | " " " " " |
| C-113 | 33 | 0 | 27 | 28/5 | " | " 2 | " " 1 and 2 | " " " " " |
| C-114 | 33 | 0 | 31 | " | " | " 2 | " " 1 | |
| C-115 | 30 | 0 | 8 | 30/5 | " | " 2 | " " 1 | |
| C-116 | 30 | 0 | 29 | 28/5 | " | " 2 | " " 1 | |
| C-117 | 30 | 0 | 28 | 26/5 | " | " 2 | " " 1 | |
| C-118 | 30 | 0 | 28 | 28/5 | " | " 2 | " " 1 | |

Drill hole data (continued)

| Hole No. | Hole Depth Feet | Depth From | Depth To | Counter Reading Hole | Counter Reading Back-ground | Drill Area | Claim | Remarks |
|---|---|---|---|---|---|---|---|---|
| | | Probe Results | | | | | | |
| C-119 | 33 | 0 | 21 | 4/5 | 4/5 | Block 2 | Gerner's Folly | |
| C-120 | 12 | 0 | 6 | " | " | " 2 | " " | |
| C-121 | 36 | 0 | 33 | " | " | " 2 | " " | |
| C-122 | 18 | 0 | 12 | " | " | " 2 | " " | |
| C-123 | 54 | 0 | 52 | " | " | " 2 | Matias Peak 2 | |
| C-124 | 39 | 0 | 37 | " | " | " 2 | " " 2 | |
| C-125 | 12 | 0 | 9 | " | " | " 2 | Gerner's Folly | |
| C-126 | 36 | 0 | 35 | " | " | " 2 | " " | |
| C-127 | 84 | 0 | 40 | " | " | " 2 | " " | |
| C-128 | 36 | 0 | 34 | " | " | " 2 | " " | |
| C-129 | 36 | 0 | 35 | " | " | " 2 | Matias Peak 2 | |
| C-130 | 36 | 0 | 34 | " | " | " 2 | " " 2 | |
| C-131 | 18 | 0 | 14 | 26/5 | 28/5 | " 2 | Gerner's Folly | |
| C-132 | 54 | 0 | 50 | 30/5 | 30/5 | " 2 | " " | |
| C-133 | 30 | 0 | 28 | " | " | " 2 | " " | |
| C-134 | 30 | 0 | 27 | " | " | " 2 | " " | |
| C-135 | 18 | 0 | 15 | " | " | " 2 | Matias Peak 2 | |
| C-136 | 36 | 0 | 33 | " | " | " 2 | " " 2 | |
| C-137 | 15 | 0 | 13 | 35/5 | 30/5 | " 2 | Gerner's Folly | |
| C-138 | 9 | 0 | 3 | 30/5 | " | " 2 | " " | |

Drill hole data (continued)

| Hole No. | Hole Depth Feet | Probe Results: Depth From | Depth To | Counter Reading: Hole | Counter Reading: Back-ground | Drill Area | Claim | Remarks |
|---|---|---|---|---|---|---|---|---|
| C-139 | 54 | 0 | 2-1/2 | 30/5 | 30/5 | Block 2 | Gerner's Folly | |
| C-140 | 30 | 0 | 26 | " | " | " 2 | Mates Peak 2 | |
| C-141 | 36 | 0 | 34 | " | " | " 2 | " " 2 | |
| C-142 | 36 | 0 | 34 | " | " | " 2 | " " 2 | |
| C-143 | 54 | 0 | 52 | " | " | " 2 | " " 2 | |
| C-144 | 15 | 0 | 14 | " | " | " 2 | " " 2 | |
| C-145 | 35 | 0 | 3 | " | " | " 2 | " " 2 | |
| C-146 | 30 | 0 | 25 | 26/5 | " | " 2 | " " 2 | |
| C-147 | 39 | 0 | 37 | 28/5 | " | " 2 | " " 2 | |
| C-148 | 30 | 0 | 20 | 30/5 | " | " 2 | Gerner's Folly | |
| C-149 | 18 | 0 | 15 | " | " | " 2 | " | " |
| C-150 | 21 | 0 | 20 | " | " | " 2 | " | " |
| C-151 | 12 | 0 | 9 | " | " | " 2 | " | " |
| C-156 | 6 | 0 | 5 | 18/5 | 18/5 | " 1 | Montana 1 | |
| C-157 | 15 | 0 | 5 | " | " | " 1 | " 1 | |
| C-158 | 6 | 0 | 5 | " | " | " 1 | " 1 | |
| C-159 | 9 | 0 | 5 | " | " | " 1 | " 1 | |
| C-160 | 5 | 0 | 2 | " | " | " 1 | " 1 | |
| C-161 | 9 | 0 | 4 | " | " | " 1 | " 1 | |
| C-162 | 36 | 0 | 31 | 20/5 | 20/5 | " 1 | " 1 | |

Drill hole data (continued)

Probe Results

| Hole No. | Hole Depth Feet | Depth From | Depth To | Counter Reading Hole | Counter Reading Back-ground | Drill Area | Claim | Remarks |
|---|---|---|---|---|---|---|---|---|
| C-163 | 72 | 0 | 63 | 20/5 | 20/5 | Block 1 | Montana 1 | |
| C-164 | 33 | 0 | 29 | " | " | " 1 | " 1 | |
| C-165 | 21 | 0 | 1 | " | " | " 1 | " 1 | |
| C-166 | 60 | 0 | 58 | " | " | " 1 | " 1 | |
| C-167 | 9 | 0 | 6 | " | " | " 1 | " 1 | |
| C-168 | 69 | 0 | 67 | " | " | " 1 | " 1 | |
| C-169 | 60 | 0 | 8 | " | " | " 1 | " 1 | |
| C-170 | 60 | 0 | 60 | 20/5 | 20/5 | | Matias Peak 1 | |
| C-171 | 60 | 0 | 56 | " | " | | " " 1 | |
| C-172 | 60 | 0 | 58 | 22/5 | 22/5 | | " " 1 | |
| C-174 | 36 | 0 | 33 | " | " | | Montana 1 | |
| C-175 | 39 | 0 | 36 | " | " | | " | |
| C-176 | 39 | 0 | 37 | " | " | | " | |
| C-177 | 18 | 0 | 13 | " | " | | " | |
| C-178 | 9 | 0 | 5 | " | " | Block 1 | " | |

Drill hole data (continued)

Probe Results

| Hole No. | Hole Depth Feet | Depth From | Depth To | Counter Reading Hole | Counter Reading Back-ground | Drill Area | Claim | Remarks |
|---|---|---|---|---|---|---|---|---|
| C-179 | 18 | 0 | 17 | 22/5 | 22/5 | | Montana 1 | |
| C-180 | 57 | 0 | 24 | " | " | | " | Assay 0.065 percent $U_3O_8$ 15-18' |
| | | 24 | 30 | 26/5 | " | | | |
| | | 30 | 35 | 31/5 | " | | | |
| | | 35 | 38 | 42/5 | " | | | |
| | | 38 | 41 | 52/5 | " | | | |
| | | 41 | 42 | 58/5 | " | | | |
| | | 42 | 43 | 65/5 | " | | | |
| | | 43 | 44 | 60/5 | " | | | |
| | | Caved | | | | | | |
| C-181 | 12 | 0 | 11 | 22/5 | | Block 1 | " 1 | |
| C-182 | 9 | 0 | 3 | " | " | | " 1 | |
| C-183 | 18 | 0 | 14 | " | " | | " 1 | |
| C-184 | 39 | 0 | 26 | 22/5 | 22/5 | " 1 | " 1 | |
| C-185 | 12 | 0 | 8 | " | " | " 1 | " 1 | |
| C-186 | 12 | 0 | 6 | " | " | " 1 | " 1 | |
| C-187 | 3 | 0 | 0.5 | " | " | " 1 | " 1 | |
| C-188 | 45 | 0 | 24 | " | " | " 1 | " 1 | |

Drill hole data (continued)

Probe Results

| Hole No. | Hole Depth Feet | Depth From | Depth To | Counter Reading Hole | Counter Reading Back-ground | Drill Area | Claim | Remarks |
|---|---|---|---|---|---|---|---|---|
| C-189 | 60 | 0 | 56 | 22/5 | 22/5 | Block 1 | | |
| C-190 | 36 | 0 | 33 | " | " | " 1 | Matias Peak 1 | |
| C-191 | 36 | 0 | 30 | " | " | " 1 | " " 1 | |
| C-192 | 36 | 0 | 33 | 4/5 | 4/5 | " 1 | " " 1 | |
| C-193 | 36 | 0 | 11 | " | " | " 1 | " " 1 | |
| | | 11 | 12 | 20/5 | " | | | |
| | | 12 | 13 | 30/5 | " | | | |
| | | 13 | 14 | 20/5 | " | | | |
| | | 14 | 33 | 4/5 | " | | | |
| C-194 | 36 | 0 | 2 | 6/5 | " | Block 1 | Matias Peak 1 | |
| | | 2 | 3 | 18/5 | " | | | |
| | | 3 | 4 | 6/5 | " | | | |
| | | 4 | 31 | 6/5 | " | | | |
| C-195 | 72 | 0 | 33 | 6/5 | " | " 1 | " " 1 | |
| | | 33 | 34 | 20/5 | " | | | |
| | | 34 | 35 | 20/5 | " | | | |
| | | 35 | 36 | 30/5 | 4/5 | " 1 | " " 1 | |
| | | 36 | 37 | 30/5 | " | | | |
| | | 37 | 38 | 70/5 | " | | | |
| | | 38 | 39 | 30/5 | " | | | |
| | | 39 | 40 | 10/5 | " | | | |
| | | 40 | 69 | 6/5 | " | | | |
| C-196 | 54 | 0 | 50 | 6/5 | 6/5 | " 1 | " " 1 | |
| C-197 | 45 | 0 | 40 | " | " | " 1 | " " 1 | |
| C-198 | 36 | 0 | 34 | " | " | " 1 | " " 1 | |

## Drill hole data (continued)

### Probe Results

| Hole No. | Hole Depth Feet | Depth From | Depth To | Counter Reading Hole | Counter Reading Back-ground | Drill Area | Claim | Remarks |
|---|---|---|---|---|---|---|---|---|
| C-199 | 21 | 0 | 17 | 6/5 | 6/5 | Block 1 | Matias Peak 1 | |
| C-200 | 36 | 0 | 34 | 8/5 | " | " 1 | " " 1 | |
| C-201 | 36 | 0 | 9 | 10/5 | " | " 1 | " " 1 | |
| | | 9 | 10 | 60/5 | " | | | |
| | | 10 | 11 | 80/4 | " | | | 24/3 Probe reading on 3 scale |
| | | 11 | 12 | 10/5 | " | | | |
| | | 12 | 35 | 6/5 | " | | | |
| C-202 | 36 | 0 | 35 | " | " | " 1 | " " 1 | |
| C-203 | 36 | 0 | 34 | " | " | " 1 | " " 1 | |
| C-204 | 81 | 0 | 6 | 8/5 | " | " 1 | " " 1 | |
| | | 6 | 7 | 22/5 | " | | | |
| | | 7 | 8 | 26/5 | " | | | |
| | | 8 | 9 | 30/5 | " | | | |
| | | 9 | 10 | 20/5 | " | | | |
| | | 10 | 80 | 8/5 | " | | | |
| C-205 | 15 | 0 | 13 | 8/5 | 8/5 | " 1 | " " 1 | |
| C-206 | 36 | 0 | 34 | 8/5 | 8/5 | " 1 | " " 1 | |
| C-207 | 30 | 0 | 28 | " | " | " 1 | " " 1 | |
| C-208 | 21 | 0 | 17 | " | " | " 1 | " " 1 | |
| C-209 | 36 | 0 | 34 | " | " | " 1 | " " 1 | |
| C-210 | 51 | 0 | 49 | 12/5 | " | " 1 | " " 1 | |
| C-211 | 36 | 0 | 35 | 8/5 | " | " 1 | " " 1 | |
| C-212 | 36 | 0 | 36 | " | " | " 1 | " " 1 | |
| C-213 | 15 | 0 | 14 | " | " | " 1 | " " 1 | |

Drill hole data (continued)

Probe Results

| Hole No. | Hole Depth Feet | Depth From | Depth To | Counter Reading Hole | Counter Reading Back-ground | Drill Area | Claim | Remarks |
|---|---|---|---|---|---|---|---|---|
| C-214 | 36 | 0 | 35 | 10/5 | 10/5 | Block 1 | Matias Peak 1 | |
| C-215 | 54 | 0 | 53 | " | " | " 1 | " " 1 | |
| C-216 | 21 | 0 | 17 | " | " | " 1 | " " 1 | |
| C-217 | 36 | 0 | 17 | 8/5 | 8/5 | " 1 | " " 1 | |
| | | 17 | 18 | 18/5 | " | | | |
| | | 18 | 19 | 20/5 | " | | | |
| | | 19 | 20 | 20/5 | " | | | |
| | | 20 | 36 | 10/5 | " | | | |
| C-218 | 9 | 0 | 5 | 8/5 | " | " 1 | " " 1 | |
| C-219 | 36 | 0 | 35 | 10/5 | 10/5 | " 1 | " " 1 | |
| C-220 | 15 | 0 | 13 | " | " | " 1 | " " 1 | |
| C-221 | 9 | 0 | 7 | " | " | " 1 | " " 1 | |
| C-222 | 36 | 0 | 34 | " | " | " 1 | " " 1 | |
| C-223 | 15 | 0 | 10 | " | " | " 1 | Montana 1 | |
| C-224 | 9 | 0 | 7 | " | " | " 1 | " 1 | |
| C-225 | 15 | 0 | 11 | " | " | " 1 | " 1 | |
| C-226 | 54 | 0 | 53 | " | " | " 1 | " 1 | |
| C-227 | 27 | 0 | 21 | " | " | " 1 | " 1 | |
| C-228 | 12 | 0 | 12 | " | " | " 1 | " 1 | |
| C-229 | 9 | 0 | 6 | " | " | " 1 | " 1 | |
| C-230 | 9 | 0 | 7 | " | " | " 1 | " 1 | |
| C-231 | 6 | 0 | 4 | " | " | " 1 | " 1 | |
| C-232 | 6 | 0 | 5 | " | " | " 1 | " 1 | |
| C-233 | 18 | 0 | 15 | " | " | " 1 | " 1 | |

Drill hole data (continued)

| Hole No. | Hole Depth Feet | Probe Results: Depth From | Depth To | Counter Reading: Hole | Counter Reading: Back-ground | Drill Area | Claim | Remarks |
|---|---|---|---|---|---|---|---|---|
| C-234 | 9 | 0 | 8 | 10/5 | 10/5 | Block 1 | Montana 1 | |
| C-235 | 12 | 0 | 9 | " | " | " 1 | " 1 | |
| C-236 | 9 | 0 | 7 | " | " | " 1 | " 1 | |
| C-237 | 6 | 0 | 4 | " | " | " 1 | " 1 | |
| C-238 | 36 | 0 | 34 | " | " | " 2 | Garner's Polly | |
| C-239 | 63 | 0 | 61 | " | " | " 2 | " " | |
| C-240 | 39 | 0 | 37 | " | " | " 2 | " " | |
| C-241 | 54 | 0 | 54 | " | " | " 2 | " " | |
| C-242 | 48 | 0 | 46 | " | " | " 2 | " " | |
| C-243 | 12 | 0 | 11 | " | " | " 2 | " " | |
| C-244 | 18 | 0 | 14 | " | " | " 2 | " " | |
| C-245 | 24 | 0 | 19 | " | " | " 2 | " " | |
| C-246 | 15 | 0 | 14 | 10/5 | 10/5 | " 2 | " " | |
| C-247 | 12 | 0 | 9 | " | " | " 2 | " " | |
| C-248 | 54 | 0 | 53 | " | " | " 2 | " " | |
| C-249 | 54 | 0 | 53 | " | " | " 2 | " " | |
| C-250 | 51 | 0 | 14 | " | " | " 2 | " " | |
| C-251 | 36 | 0 | 35 | " | " | " 2 | " " | |
| C-252 | 36 | 0 | 32 | " | " | " 2 | " " | |
| | | 32 | 33 | 25/5 | " | | | |
| | | 33 | 34 | 25/5 | " | | | |
| C-253 | 15 | 0 | 13 | 10/5 | " | " 2 | " " | |

Drill hole data (continued)

Probe Results

| Hole No. | Hole Depth Feet | Depth From | Depth To | Counter Reading Hole | Counter Reading Back-ground | Drill Area | Claim | Remarks |
|---|---|---|---|---|---|---|---|---|
| C-254 | 15 | 0 | 14 | 10/5 | 10/5 | Block 2 | Gerner's Folly | |
| C-255 | 18 | 0 | 15 | " | " | " 2 | " " | |
| C-256 | 18 | 0 | 15 | " | " | -- | -- | )Outside drill area |
| C-257 | 21 | 0 | 20 | " | " | -- | -- | )not included under contract |
| C-258 | 15 | 0 | 11 | " | " | Block 2 | Schoonmaker 2 | |
| C-259 | 6 | 0 | 6 | " | " | " 2 | " " 2 | |
| C-260 | 36 | 0 | 34 | " | " | " 2 | " " 2 | |
| C-261 | 27 | 0 | 24 | " | " | -- | -- | )Outside drill area |
| C-262 | 21 | 0 | 18 | " | " | -- | -- | )not included under contract |
| C-263 | 9 | 0 | 8 | " | " | Block 2 | Schoonmaker 2 | |
| C-264 | 15 | 0 | 12 | " | " | " 2 | " " 2 | |
| C-265 | 54 | 0 | 8 | " | " | " 2 | " " 2 | |
| | | 8 | 9 | 28/5 | | | | |
| | | 9 | 10 | 30/5 | | | | |
| | | 10 | 11 | 20/5 | " | | | |
| | | 11 | 12 | " | " | | | |
| | | 12 | 13 | " | " | | | |
| | | 13 | 14 | 38/5 | " | | | |
| | | 14 | 15 | 30/5 | " | | | |
| | | 15 | 16 | 32/5 | " | | | |
| | | 16 | 17 | 24/5 | " | | | |
| | | 17 | 18 | 30/5 | " | | | |
| | | 18 | 19 | 40/5 | " | | | |
| | | 19 | 20 | 50/5 | " | | | |
| | | 20 | 21 | 40/5 | " | | | |
| | | 21 | 22 | 30/5 | " | | | |
| | | 22 | 51 | 10/5 | " | | | |

Drill hole data (continued)

Probe Results

| Hole No. | Hole Depth Feet | Depth From | Depth To | Counter Reading Hole | Counter Reading Back-ground | Drill Area | Claim | Remarks |
|---|---|---|---|---|---|---|---|---|
| C-266 | 36 | 0 | 13 | 10/5 | 10/5 | Block 2 | Schoonmaker 2 | |
| | | 13 | 14 | 30/5 | " | | | |
| | | 14 | 15 | 70/5 | " | | | |
| | | 15 | 16 | 40/5 | " | | | |
| | | 16 | 17 | 40/5 | " | | | |
| | | 17 | 18 | 30/5 | " | | | |
| | | 18 | 19 | 30/5 | " | | | |
| | | 19 | 20 | 30/5 | " | | | |
| | | 20 | 21 | 20/5 | " | | | |
| | | 21 | 25 | 20/5 | " | | | |
| | | 25 | 26 | 40/5 | " | | | |
| | | 26 | 27 | 30/5 | " | | | |
| | | 27 | 28 | 30/5 | " | | | |
| | | 28 | 29 | 30/5 | " | | | |
| | | 30 | 33 | 20/5 | " | | | |
| | | 33 | 34 | 34/5 | " | | | |
| C-267 | 36 | 0 | 34 | 10/5 | " | -- | -- | Outside drill area not included under contract |
| C-268 | 18 | 0 | 16 | " | " | -- | -- | |
| C-269 | 12 | 0 | 9 | " | " | Block 2 | Schoonmaker 2 | |
| C-270 | 15 | 0 | 15 | " | " | " 2 | " " 2 | |
| C-271 | 12 | 0 | 11 | " | " | " 2 | " " 2 | |
| C-272 | 35 | 0 | 27 | " | " | " 2 | " " 2 | |
| C-1-A | 110 | 0 | 110 | 6/5 | 6/5 | Block 3 | Mattes Peak 1 | Block 3 is used to designate an area described in Exhibit A of Amendment 2 and as an area shown on figure 2. |
| C-2-A | 180 | 0 | 180 | " | " | " 3 | Mattes 1 | |
| C-3-A | 172.5 | 0 | 172.5 | 4/5 | 4/5 | " 3 | " 1 | |

Drill hole data (continued)

| Hole No. | Hole Depth Feet | Probe Results: Depth From | Depth To | Counter Reading: Hole | Counter Reading: Back-ground | Drill Area | Claim | Remarks |
|---|---|---|---|---|---|---|---|---|
| C-4-A | 180 | 0 | 180 | 4/5 | 4/5 | Block 3 | Montana 1 | |
| C-5-A | 155 | 0 | 155 | " | " | " 3 | " 1 | |
| C-6-A | 137.5 | 0 | 137.5 | " | " | " 3 | " 1 | |
| C-7-A | 150 | 0 | 150 | 6/5 | 6/5 | " 3 | " 1 | |
| C-8-A | 125 | 0 | 125 | " | " | " 3 | " 1 | |
| C-9-A | 150 | 0 | 150 | 4/5 | 4/5 | " 3 | " 1 | |
| C-10-A | 120 | 0 | 120 | " | " | " 3 | " 1 | |
| C-11-A | 90 | 0 | 90 | 6/5 | 6/5 | " 3 | " 1 | |
| C-12-A | 120 | 0 | 120 | 4/5 | 4/5 | " 3 | Mutiny Peak 1 | |
| C-13-A | 150 | 0 | 150 | " | " | " 3 | " " 1 | |
| C-14-A | 120 | 0 | 120 | " | " | " 3 | " " 1 | |
| C-15-A | 150 | 0 | 150 | 5/5 | " | " 3 | " " 1 | |
| C-16-A | 160 | 0 | 160 | 6/5 | " | " 3 | " " 1 | |
| C-17-A | 143 | 0 | 143 | 4/5 | " | " 3 | " " 1 | |
| C-18-A | 160 | 0 | 160 | " | " | " 3 | " " 1 | |
| C-19-A | 162 | 0 | 162 | 7/5 | " | " 3 | " " 1 | |
| C-20-A | 40 | 0 | 40 | 4/5 | " | " 3 | Ripsnorter 1 | |
| C-21-A | 100 | 0 | 100 | 8/5 | " | " 3 | Mutiny Peak 1 | |
| C-22-A | 70 | 0 | 70 | 8/5 | " | " 3 | " " 1 | |
| C-23-A | 70 | 0 | 70 | 6/5 | " | " 3 | " " 1 | |

Drill hole data (continued)

Probe Results

| Hole No. | Hole Depth Feet | Depth From | Depth To | Counter Reading Hole | Counter Reading Back-ground | Drill Area | Claim | Remarks |
|---|---|---|---|---|---|---|---|---|
| C-24-A | 70 | 0 | 70 | 8/5 | 4/5 | Block 3 | Montana 1 | |
| C-25-A | 90 | 0 | 90 | 4/5 | " | " 3 | " 1 | |
| C-26-A | 70 | 0 | 70 | 5/5 | " | " 3 | " 1 | |
| C-27-A | 70 | 0 | 70 | 4/5 | " | " 3 | " 1 | |
| C-28-A | 90 | 0 | 90 | None | - | " 3 | " 1 | Report shows radioactivity none |
| C-29-A | 114 | 0 | 114 | " | | " 3 | " 1 | |
| C-30-A | 175 | 2 | 40 | 20/5 | 20/5 | " 3 | " 1 | |
| | | 40 | 44 | 30/5 | 20/5 | | | |
| | | - | 45 | 70/5 | " | | | |
| | | - | 45.5 | 70/4 | " | | | Probe reading at footage shown under "To" |
| | | 46 | 46 | 45/4 | " | | | |
| | | | 47 | 38/4 | " | | | Probe reading at footage shown under "To" |
| | | | 47.5 | 75/5 | " | | | |
| | | | 48 | 50/5 | " | | | |
| | | | 49 | 30/5 | " | | | |
| | | | 50 | 25/5 | " | | | |
| | | 52 | 120 | 22/5 | " | | | |
| C-31-A | 175 | 0 | 175 | - | - | " 3 | " 1 | Reported radioactivity none |
| C-32-A | 200 | 0 | 200 | - | - | " 3 | " 1 | " " " " |
| C-33-A | 84 | 0 | 84 | - | - | " 3 | Mains Peak 1 | " " " " |
| C-34-A | 114 | 0 | 114 | - | - | " 3 | " " 1 | " " " " |
| C-35-A | 160 | 0 | 160 | - | - | " 3 | " " 1 | " " " " |
| C-36-A | 105 | 0 | 105 | - | - | " 3 | " " 1 | " " " " |
| C-37-A | 120 | | 45.5 | 210 | - | " 3 | Montana 1 | See note on next page |
| C-38-A | 130 | | 60.5 | 165 | - | " 3 | " 1 | |

Drill hole data (continued)

Probe Results

| Hole No. | Hole Depth Feet | Depth From | Depth To | Counter Reading Hole | Counter Reading Back-ground | Drill Area | Claim | Remarks |
|---|---|---|---|---|---|---|---|---|
| C-39-A | 135 | 0 | 135 | Bag. | - | Block 5 | Montana 1 | Counter reading for hole C-37-A through C-54-A in counts per second probed with Esterline-Angus gamma-ray logging instrument by AEC |
| C-40-A | 130 | | 12 | 110 | - | " 5 | " 1 | |
| C-41-A | 135 | | 11 | 125 | - | " 5 | " 1 | |
| C-42-A | 130 | | 32 | 120 | - | " 5 | " 1 | |
| C-43-A | 130 | | 13 | 140 | - | " 5 | " 1 | |
| C-44-A | 130 | | 17 | 105 | - | " 5 | " 1 | |
| C-45-A | 130 | 0 | 130 | Bag. | - | " 5 | " 1 | |
| C-46-A | 130 | | 26 | 1200 | - | " 5 | Mutins Peak 1 | |
| | | | 44.5 | 840 | - | " 5 | " " 1 | |
| C-47-A | 130 | 0 | 130 | Bag. | - | " 5 | " " 1 | |
| C-48-A | 130 | | 36.5 | 1750 | - | " 5 | " " 1 | |
| C-49-A | 130 | | 22.5 | 600 | - | " 5 | " " 1 | |
| C-50-A | 130 | | 26 | 200 | - | " 5 | " " 1 | |
| C-51-A | 130 | 0 | 130 | Bag. | - | " 5 | " " 1 | |
| C-52-A | 130 | 0 | 130 | Bag. | - | " 5 | " " 1 | |
| C-53-A | 130 | 0 | 130 | Bag. | - | " 5 | " " 1 | |

Drill hole data (continued)

| Hole No. | Hole Depth Feet | Probe Results: Depth From | Depth To | Counter Reading: Hole | Counter Reading: Back-ground | Drill Area | Claim | Remarks |
|---|---|---|---|---|---|---|---|---|
| C-54-A | 16 | 0 | 16 | Neg. | - | Block 3 | Matina Peak 1 | Hole disallowed |
| Parker No. 1 | 220 | - | - | - | | | Parker No. 4 | Parker No. 1, No. 2, and No3 and holes Nos. 100 through 106 drilled by the company, not under the contract. All holes reported gave negative probing results. |
| " " 2 | 288 | - | - | - | | | " " " | |
| " " 3 | 315 | - | - | - | | | " " " | |
| 100 | 300 | - | - | - | | | " " 5 | |
| 101 | 300 | - | - | - | | | " " 4 | |
| 102 | 300 | - | - | - | | | " " " | |
| 103 | 300 | - | - | - | | | " " 7 | |
| 104 | 300 | - | - | - | | | " " " | |
| 105 | 300 | - | - | - | | | " " " | |
| 106 | 300 | - | - | - | | | " " 4 | |

7-12-56

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

224 New Customhouse
Denver 2, Colorado

July 6, 1956

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: DMEA Docket 2857 (Uranium) Contract Idm-E517, Sodak Uranium and Mining Company, Inc., Fall River County, South Dakota - FINAL PAYMENT

Enclosed are two copies of a memorandum to T. A. Christensen, dated July 2, 1956, relative to final payment under the terms of the subject contract.

W. M. TRAVER

W. M. Traver

Enclosures

RECEIVED
JUL 13 1956

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

224 New Customhouse
Denver 2, Colorado

July 2, 1956

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region III

Subject: DMEA Docket 2857 (Uranium) Contract Dmn-E517, Sedak Uranium and Mining Company, Inc., Fall River County, South Dakota - FINAL PAYMENT

Reference is made to our memorandum of October 17, 1955, whereby we forwarded Form MF-104, Operator's Monthly Progress Report and Voucher, for the month of August, 1955 and instructed you to withhold from reimbursement to the Operator the amount of $100.00 pending receipt of the Operator's final report and release of an audit report or Report of Review by the Contract Administration and Audit Division.

The Operator's final report has been received; therefore, we recommend final payment to the Operator on the following basis which is in conformance with the Report of Review of contract expenditures by the Contract Administration and Audit Division dated March 19, 1956.

**Basis for Final Payment**

| | |
|---|---|
| Total Accepted Cost | $15,364.89 |
| Government Participation at 75 Percent | 14,280.21 |
| Total Prior Payments | 14,180.21 |
| Balance due the Operator | $ 100.00 |

$100.00
JS
7/5/56 DMA 57-4

W. M. TRAVER

W. M. Traver

JWT:jy
cc: MF-104 File, Reg. III
Sec. Op. Comm. (2)
Shaw
Townsend
Corresp. File E517
Chron.

RECEIVED
JUL 12 1956

7-5-56

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

RECEIVED
JUL 5 - 1956

224 New Customhouse
Denver 2, Colorado

July 2, 1956

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: DMEA Docket 2857 (Uranium) Contract Idm-E517, Sodak Uranium and Mining Company, Inc., Fall River County, South Dakota

Enclosed are the original and one copy of the Operator's final report pertaining to the work completed under the subject contract.

Final payment to the Operator was processed through this office today.

W. M. TRAVER

W. M. Traver

Enclosures

SODAK URANIUM AND MINING CO. INC.
PHONE 473-W
HOTEL EVANS ANNEX
HOT SPRINGS, SOUTH DAKOTA

June 28, 1956

DMEA
Date Rec'd.
JUN 29 1956
BUREAU OF MINES
Denver, Colorado

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

Dear Mr. Traver:

Please find enclosed the Final Report pertaining to the work completed under Contract IDM-E517.

Concerning the enclosed maps; I am not able to include copies of Exhibit "B". This map was furnished by the D.M.E.A. and we have one photostatic copy. No composite map was made showing Phase I and II. Part of Phase II overlies Phase I and maps DM-4 and DM-6 are enclosed to show all of the holes.

Very truly yours,

C.R. Boyle

C.R. Boyle

Enc: DM-4
DM-6 0-5
DM-7
Rep.
Airmail
Spec. Del.

CRB:ld

FINAL REPORT

RECEIVED
JUL 5 - 1956
DMEA
Date Rec'd.
JUN 29 1956
BUREAU OF MINES
Denver, Colorado

Docket No. 2357

Contract No. IBM-2517

The purpose of this work was to explore the Lakota Formation of Early Cretaceous Age underlying the properties, shown on Exhibit "B", for uranium ore. The basis for this exploration was the Matias Peak ore body, operated by the contractor, which had produced 2,034 dry tons of uranium ore having a gross value of $49,723.00 including initial production bonus.

The work was divided into Stages I and II. Stage I, consisting of two phases was divided as follows:

STAGE I

PHASE I

This work was confined to Blocks Nos. 1 and 2, shown on Exhibit "B" and provided for a maximum of 8,596.5 feet of wagon drill hole from the surface to penetrate the local ore-bearing horizon. The holes were drilled on a grid spacing of 100 feet in a north-south direction and a spacing of 50 feet in east-west direction. Average depth to be drilled was 30'. One hole was to be drilled to a depth of 100 feet in each 5000 sq. ft. of grid area.

The results of Phase I were unsatisfactory. Of the first 183 holes drilled, twelve holes showed radiactive count sufficiently high enough for the cuttings to be assayed. The highest assay result was 0.114% $U_3O_8$, the sampled section being from 27 feet to 30 feet in hole #C-75. This same horizon was not probed due to caving in the hole. Hole #C-77, 200 ft. east of C-75, showed similar radiactivity in the section of 12 feet

Operator's
final report

to 18 feet. Hole # C-76, between C-75 and C-77 showed no count. This area, roughly 200 feet long by 60 feet wide was stripped to 18 ft. and holes offsetting C-75, C-76 and C-77 were drilled. The results of this work were negative, and the count on a Model 111A Scintillator was less at the bottom of the strip than at the surface.

Holes Nos. 265 and 266 were offset with several holes which gave negative results. A rim-strip was made 60 feet east and approximately parallel to a line through Hole Nos. 272, 266 and 102 on the horizon showing the radioactivity. The sandstone exposed was barren.

The result of this drilling showed the mineralization to be discontinous and too low in grade.

It was planned, at this time, to terminate the contract; however, the current work done by the U.S.G.S. in the Edgemont area, had shown the possibility of uranium mineralization being associated with and controlled by various positive tectonic structures such as anticlinal noses and structural terraces or local flattenings of the dip.

Preliminary work, by W. A. Braddock, U.S.G.S., outlined a possible small anticlinal nose in the area shown on Map No. DM-6. It was agreed by the Field Team and the contractor to continue the drilling into Phase II of Stage I.

PHASE II

This work provided for a maximum of 15,600 feet of drilling. The location of these holes is shown on Map D-6. The depth of hole was varied from 70 feet to 200 feet, depending on topography. The target horizon in this area being a discontinous sandstone in the upper fifty feet of the Lakota Formation. Most of these

holes were extended to a second, lower discontinous sandstone occurring at depths of 10 feet to 50 feet below the target horizon. 6,758.0 feet were drilled in Phase II and, the results being discouraging, application was made to terminate the contract on March 1, 1956.

## SUMMARY OF DRILLING WORK

### PHASE I

| | |
|---|---|
| Phase I | 8,596.5 ft. |
| Phase II | 6,758.0 ft. |
| Total | 15,354.5 ft. |

## REMARKS

This contract was applied for in Nov., 1952 and was based on wagon-drilling costs which were all the experience the district afforded at that time. This basis is not a proper one for the Rotary Drilling that became necessary during Phase II. The additional cost for Rotary Drilling in these formations is approximately 15 cents per foot.

## CONCLUSIONS

In spite of the unsatisfactory results of this project I believe it was warranted. The known ore horizons within the Lobate Formation are present under the entire area. There were numerous surface anomalies. There was the fact that the Matias Peak ore body No. 2 gave no indications at surface and was found only by wild-cat drilling. The possibility of a favorable geologic structure was developed and, there were present, good commercial ore bodies in the same horizon less than one mile to the west. It is safe to assume that the area would have been

drilled by someone; and this seems more true today, after 4 years experience.

However, the operator does not contemplate further exploration within this area. It seems that the best possibilities have been tried and all ore bodies have been thoroughly offset by too many negative drill holes. If the present expenditure for drilling, including both private and governmental, is charged against the total production from this area the resulting cost is approximately $10.00 per ton.

Map No. DU-7 is attached showing the plan and sections of the holes drilled in the area recommended by W. A. Bradfield. The isopach map reveals that holes No. 46, 48 and 49 occur in the thinnest section of the target bed; these holes gave the highest gamma-ray count as stated in the report for August, 1955. Aside from this, no significant geologic detail was observed throughout the drilling.

I wish to thank the D.U.E.A. field team for their courteous assistance and particularly for their patience with the delays during the term of this contract.

C. R. Boyle

6-15-56

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

RECEIVED
JUN 15 1956

224 New Customhouse
Denver 2, Colorado

CERTIFIED MAIL

June 12, 1956

Mr. C. R. Boyle, President
Sodak Uranium and Mining Company, Inc.
P. O. Box 330
Edgemont, South Dakota

Re: Docket DMEA 2857 (Uranium)
Contract Idm-2517
Sodak Uranium and Mining Company, Inc.
Fall River County, South Dakota

Dear Mr. Boyle:

By certified letter of May 11, 1956 we called your attention to the necessity that you render a final engineering and geologic report pertaining to work completed under Contract Idm-2517 in conformance with the provisions of Article 5 (b) of the Contract.

Considerable time has elapsed since all approved work was completed under the Contract and inasmuch as the Contract expired October 1, 1955, unless we receive an acceptable engineering and geologic report in conformance with the provisions of Article 5 (b) of the Contract by July 1, 1956, we will refer the matter of your noncompliance with the terms of the Contract to the Washington Office, DMEA, for such action by them as is indicated.

Very truly yours,

W. M. TRAVER

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

JWT:prl
cc: Chairman, Oper. Comm. (2)
Harshman
Shaw
Townsend
Corres. file
Chron.

4-18-56

U. S. DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

RECEIVED
APR 18 1956

224 New Customhouse
Denver 2, Colorado

Date: April 13, 1956

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Royalty payments, DMEA Docket 2857 (Uranium), Contract Idm-E517, Sodak Uranium & Mining Co., Inc. (formerly Ortmayer, Sullivan & Boyle) - S. Dakota

Period: March, 1956

During the above month the following royalty payments were received for ore or concentrates shipped from the subject property:

| Lot No. | Dry Tons | Royalty Due | Royalty Pd. |
|---|---|---|---|
| | | (NONE) | |

Totals:

| | |
|---|---|
| Past Due Royalties Collected | None |
| Total Dry Tons (Ore or Cons.) Shipped to Date | 493.715 |
| Expiration Date of Royalty Repayment | Not determined |
| Amount of Government Participation | $14,280.21 |
| Total Royalty Payments to Date | $834.64 |
| Percent of Loan Repayment | 5.84% |

W. M. Traver

W. M. Traver

vj

cc Royalty File E 517 w/Settlement Sheets
Monthly Royalty Payment File
~~T. A. Christensen~~
S. M. Runke
Chron.

U. S. DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

RECEIVED
APR 13 1956

224 New Customhouse
Denver 2, Colorado

Date: April 13, 1956

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Royalty payments, DMEA Docket 2857 (Uranium), Contract Idm-E517, Sodak Uranium & Mining Co., Inc. (formerly Ortmayer, Sullivan & Boyle) - S. Dakota

Period: March, 1956

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|---|---|---|---|
| | | (NONE) | |

Totals:

| | |
|---|---|
| Past Due Royalties Collected | None |
| Total Dry Tons (Ore or Cons.) Shipped to Date | 493.715 |
| Expiration Date of Royalty Repayment | Not determined |
| Amount of Government Participation | $14,280.21 |
| Total Royalty Payments to Date | $834.64 |
| Percent of Loan Repayment | 5.84% |

W. M. TRAVER

W. M. Traver

vj

cc Royalty File E 517 w/Settlement Sheets
Monthly Royalty Payment File
~~T. A. Christensen~~
S. M. Runke
Chron.

3/26/56

**DEPARTMENT OF INTERIOR**
**DEFENSE MINERALS EXPLORATION ADMINISTRATION**
**GENERAL ADMINISTRATION AND AUDIT DIVISION**

**REPORT OF REVIEW**

RECEIVED
MAR 21 1956

I have reviewed the Monthly Reports of:

**C. G. Grimmett, R. G. Sullivan and C. R. Davis, Partners**
**Box 330**
**Edgemont, South Dakota**
**Assigned to:**
**Solak Uranium and Mining Company, Inc.**
**Box 330**
**Edgemont, South Dakota**

pertaining to Exploration Project Contract No. Ida-E517, Docket No. DMEA-2857, including Amendments Nos. 1 to 4, for the period June, 1953 to August, 1955, covering a project for the exploration of Uranium on property known as Ripsnorter and Parker Group of Claims, located in Fall River County, South Dakota.

My review included an examination of the Monthly Reports (Form MF-104) and supporting documents attached thereto, comparison of the costs claimed with the contract and pertinent schedules, consultation with the Executive Officer, DMEA Field Team, and a determination of the reasonableness and propriety of the costs.

This review was made in lieu of a final audit of the Operator's accounts and records for the following reason:

> All of the costs incurred were under a contract provision for payment by the Government on the basis of agreed estimated costs of units of work actually performed.

The review disclosed the following facts in regard to the amount paid or to be paid the contractor:

| | | |
|---|---|---|
| Total cost as billed by Contractor | | $15,883.05 |
| Exceptions: (Schedule attached) | | |
| By DMEA Finance Officer | $16.16 | |
| Deposits | 0.00 | 16.16 |
| Total Accepted Cost | | $15,866.89 |

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 Fourteen thousand, two hundred eighty and 21/100ths Dollars

** $14,280.21 **

is considered valid and proper, provided 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.

March 19, 1956

T. H. Breding, Auditor

Audit report
3/19/56

## SCHEDULE OF EXCEPTIONS

Sodak Uranium & Mining Co., Inc. Contract [illegible]-2517 Docket No. [illegible]-2857

Operator claimed 16 feet of drilling on Hole No. 54 in the amount of $16.16. (16 feet @ $1.01 per foot)

Claim was disallowed by the Finance Officer as this hole did not approach the approximate depth of 130 feet stipulated in the contract.

Disallowance is approved by the Auditor.

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

22½ New Customhouse
Denver 2, Colorado

March 19, 1956

RECEIVED
MAR 3 1 1956

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 2657 (Uranium), Contract Idm-K517, Sodak Uranium and Mining Company, Fall River County, S. Dak.

In conjunction with the matter discussed in the next to the last paragraph of our memorandum of March 1, 1956, we are enclosing the original and three copies of a memorandum, dated March 15, 1956, with sketch attached, from H. G. Rinyon, Mining Engineer, Bureau of Mines, pertaining to the drilling performed at the Operator's expense on the Parker Claims.

Inasmuch as the drilling performed by the Operator does not indicate the presence of mineralization, contribution by the Government to further work in the area is not recommended. We further recommend that the contract be let expire as of October 1, 1955, and that no certification of discovery or development as a result of the DMEA work performed be issued.

W. M. Traver

W. M. Traver

Enclosures

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
REGION III

RAPID CITY EXPERIMENT STATION

SCHOOL OF MINES CAMPUS
RAPID CITY, SOUTH DAKOTA

March 15, 1956

Memorandum

To: W. M. Traver, Executive Officer, DMEA Field Team, Reg. III

From: E. O. Binyon, Rapid City, S. Dak.

Subject: Docket DMEA 2857 (Uranium), Contract Idm-E517, Sodak Uranium and Mining Co., Fall River County, S. Dak.

As requested in your memorandum of February 28, a check has been made of the drilling done at company expense on the Parker claims.

Enclosed is a tracing showing the locations and depths of all holes drilled on these claims as of March 13. The operator stated that no mineralization was found in any of the holes and that no further drilling was planned in the area.

The holes were probed by the A.E.C. and a check of their gamma ray logs showed no mineralization.

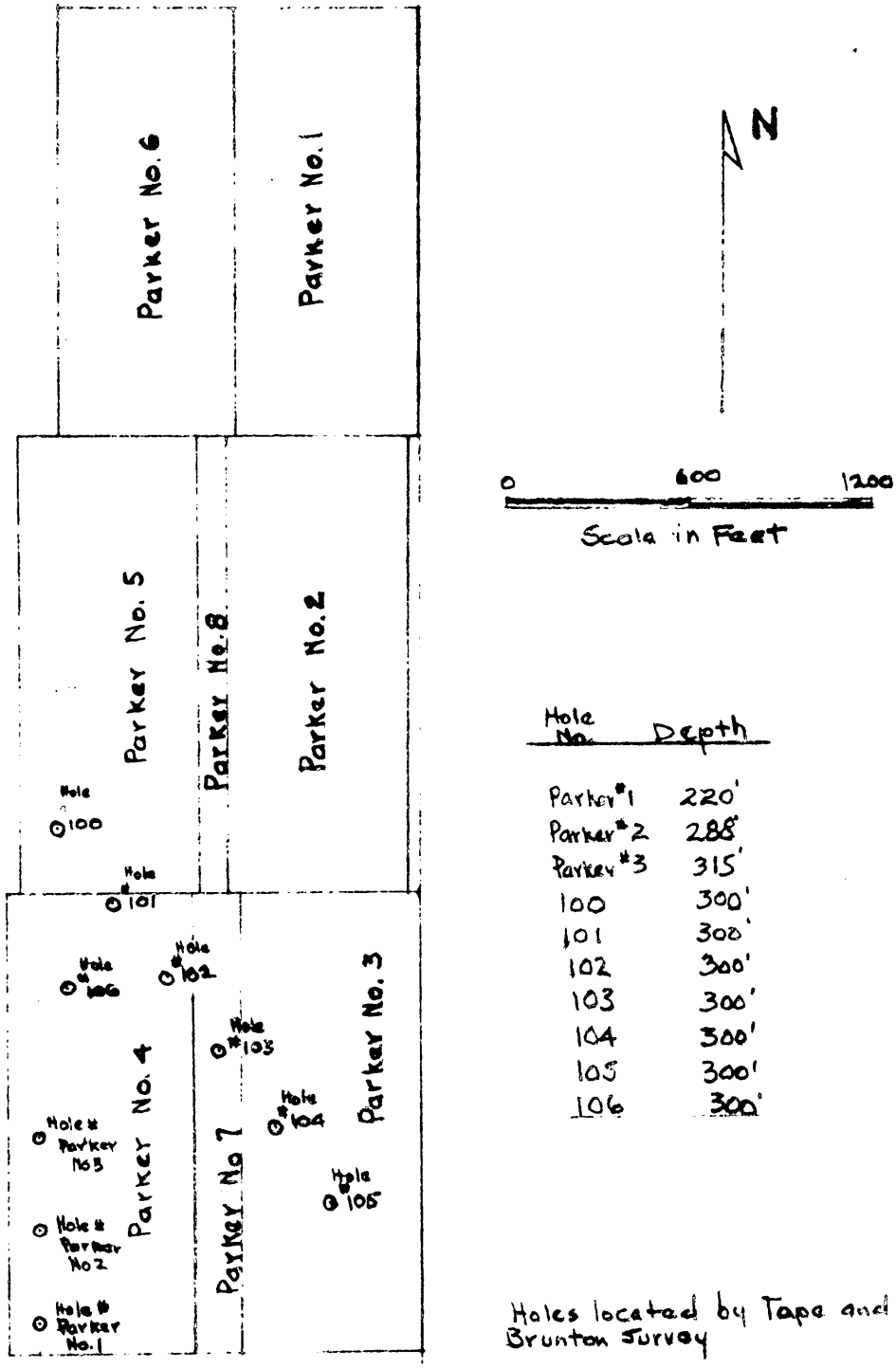
E. O. Binyon

E. O. Binyon

cc: Traver (2)
files

ADMINISTRATIVE OFFICE
REGION III
MAR 19 1956
BUREAU OF MINES
DENVER, COLORADO

34 | 35 T.T3 R3E
3 | 2 T.3S R3E




| Hole No. | Depth |
|---|---|
| Parker #1 | 220' |
| Parker #2 | 288' |
| Parker #3 | 315' |
| 100 | 300' |
| 101 | 300' |
| 102 | 300' |
| 103 | 300' |
| 104 | 300' |
| 105 | 300' |
| 106 | 300' |

Holes located by Tape and Brunton Survey

Taken from Company map

3 | 2
10 | 11

Location of Company Drill Holes
Parker Claims (Docket DMEA 2857)
**Sodak Uranium and Mining Company** 3-13-56
Fall River County, South Dakota

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
REGION III

RAPID CITY EXPERIMENT STATION

SCHOOL OF MINES CAMPUS
RAPID CITY, SOUTH DAKOTA

March 15, 1956

Memorandum

To: W. M. Traver, Executive Officer, DMEA Field Team, Reg. III

From: E. O. Binyon, Rapid City, S. Dak.

Subject: Docket DMEA 2857 (Uranium), Contract Idm-E517, Sodak Uranium and Mining Co., Fall River County, S. Dak.

As requested in your memorandum of February 28, a check has been made of the drilling done at company expense on the Parker claims.

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The holes were probed by the A.E.C. and a check of their gamma ray logs showed no mineralization.

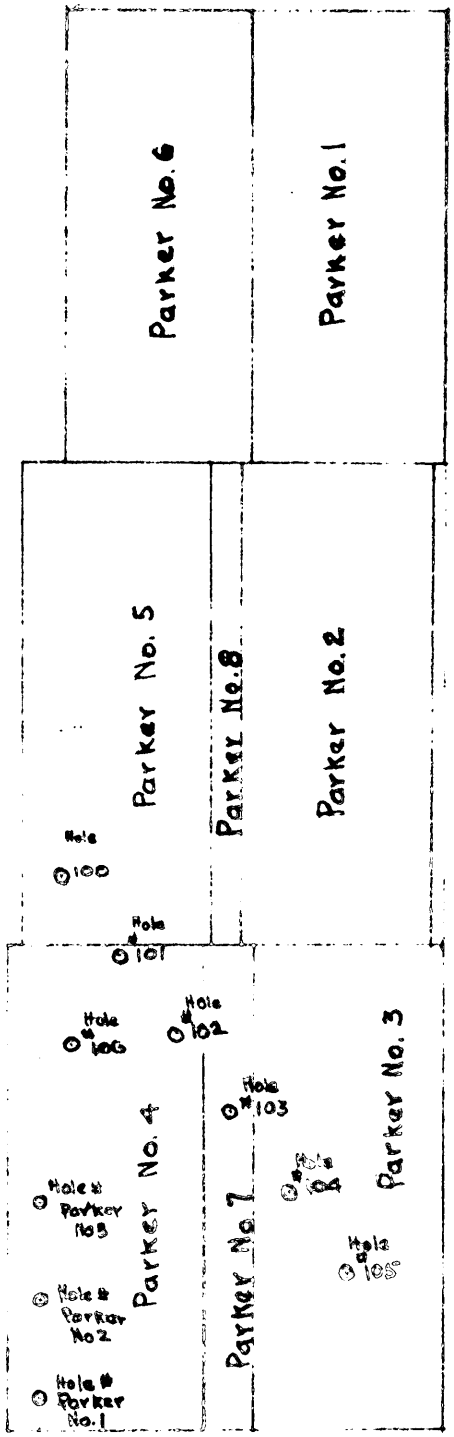
E. O. Binyon

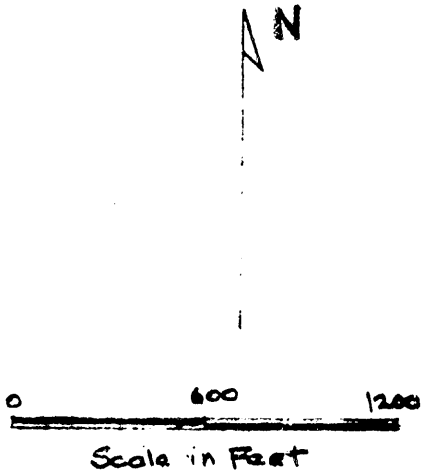
E. O. Binyon

cc: Traver (2)
files

ADMINISTRATIVE OFFICE
REGION III
MAR 19 1956
BUREAU OF MINES
DENVER, COLORADO

34 | 35 T.7S R.3E
3 | 2 T.8S R.3E




| Hole No. | Depth |
|---|---|
| Parker #1 | 220' |
| Parker #2 | 288' |
| Parker #3 | 315' |
| 100 | 300' |
| 101 | 300' |
| 102 | 300' |
| 103 | 300' |
| 104 | 300' |
| 105 | 300' |
| 106 | 300' |

Holes located by Tape and Brunton Survey

Taken from Company map

3 | 2
10 | 11

Location of Company Drill Holes
Parker Claims
Sodak Uranium and Mining Company
Fall River County, South Dakota

(Docket DMEA 2557)
3-13-57

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
REGION III

RAPID CITY EXPERIMENT STATION

SCHOOL OF MINES CAMPUS
RAPID CITY, SOUTH DAKOTA

March 15, 1956

Memorandum

To: W. M. Traver, Executive Officer, DMEA Field Team, Reg. III

From: E. O. Binyon, Rapid City, S. Dak.

Subject: Docket DMEA 2857 (Uranium), Contract Idm-E517, Sodak Uranium and Mining Co., Fall River County, S. Dak.

As requested in your memorandum of February 28, a check has been made of the drilling done at company expense on the Parker claims.

Enclosed is a tracing showing the locations and depths of all holes drilled on these claims as of March 13. The operator stated that no mineralization was found in any of the holes and that no further drilling was planned in the area.

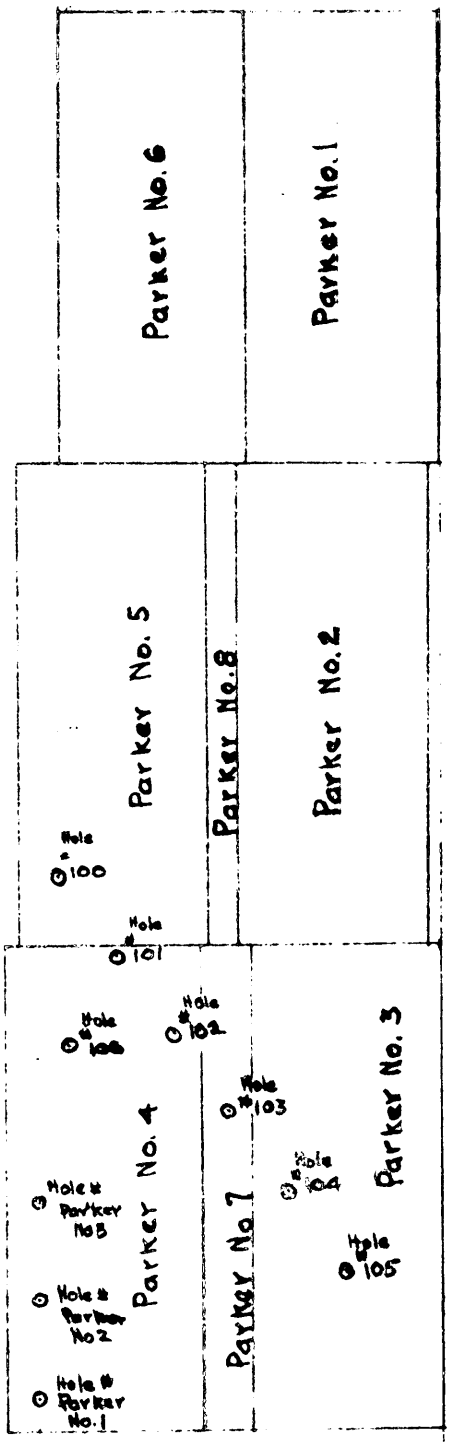
The holes were probed by the A.E.C. and a check of their gamma ray logs showed no mineralization.

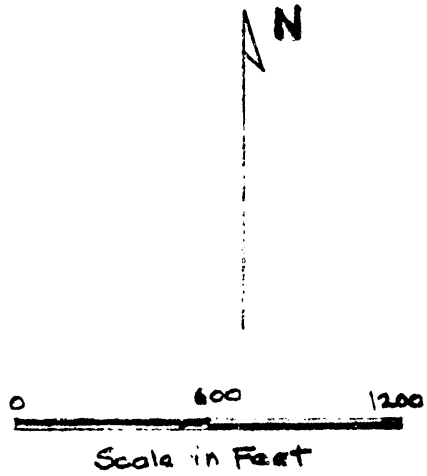
E. O. Binyon

E. O. Binyon

cc: Traver (2)
files

ADMINISTRATIVE OFFICE
REGION III
MAR 19 1956
BUREAU OF MINES
DENVER, COLORADO




| Hole No. | Depth |
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| 104 | 300' |
| 105 | 300' |
| 106 | 300' |

Holes located by Tape and Brunton Survey

Taken from Company map

3 | 2
10 | 11

Location of Company Drill Holes
Parker Claims
Sodak Uranium and Mining Company
Fall River County, South Dakota

(Docket DMEA 2857)
3-13-56

3/14/56

RECEIVED
MAR 14 1956

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration
Washington 25, D. C.

224 New Customhouse
Denver 2, Colorado

Date: March 9, 1956

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Semiannual Report of ~~XXXXXXX~~ Project for the period July 1, 1955 through December 31, 1955
DMEA Docket 2857 ( Uranium )
Contract Idm-E 517 , Sodak Uranium and Mining Co.
Hipsnorter-Matias Peak, Cycad No. 1 Claim, Fall River County, South Dakota.

Enclosed are the original and three copies of the subject report prepared in conformance with instructions contained in memorandum of January 6, 1956 from this office. and Memorandum 29.

W. M. TRAVER

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

Enclosures

RDB/vj
cc: Semiannual Report File E 517
E. O. Binyon
E. N. Harshman
Chron.

## Semi-Annual Report of Certified Projects

RECEIVED

Reporting Period: July 1, 1955 - December 31, 1955

Docket and Contract Number: Docket No. A 2957, Contract Ion-E517

Operator: Hodak Uranium Mining Co. (Formerly Urbanover, Sullivan & Boyle)

Commodity: Uranium

Mine Name: Dipsenorter-Maidan Oak, Cycad No. 1 Claims

County and State: Fall River County, S. Dak.

Date of Contract: May 7, 1953

Date of Certification: NOT CERTIFIED YET

Restriction Date of Royalty Payments

Date of Examination for this Report: January 5, 1956

Total Amount of Contract: $38,945.00

Total Expenditures under Contract: $15,8[illegible].89

Amount of Government Participation at 90%: $14,290.20

Royalty Payments this Period: None

Previous Royalty Payments: $283.64

Total Royalty Payments to Date: $283.64

% Loan Repayment Completed: 5.94 percent

Amount of Royalty Due: None

Royalty Remarks

Original Estimate of Reserves (from Final Engr.-Geol. Report): No estimate. Project termination pending. No final report as yet.

Increase of Reserves by work performed subsequent to expiration or termination of contract: —

Revised Estimate of Reserves: —

Production this Period (Ore or Concentrates): None

Amount of Previous Production (since date of contract) 193.715 (short tons, dry) value with bonus, $16,608.21.

Total DMA Production to date: 193.715 short tons, value with bonus, $16,608.21.

% of Revised Reserves Mined -

Production Remarks:

Note: On Uranium projects check with AEC to assure that our records are in agreement with theirs.

Other Remarks: Property has not been in operation since June 19[illegible].

Signed /s/ E. O. Bimson (Engineer)

3/9/56 dyn

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

224 New Customhouse
Denver 2, Colorado

March 6, 1956

Memorandum

To: E. O. Binyon

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA-2857 (Uranium), Contract Idm-E517, Sodak Uranium and Mining Company, Inc., (Formerly Ortmayer, Sullivan and Boyle), Fall River County, South Dakota - Progress Report for the period June and July, 1953

Please forward to this office as soon as possible a copy of such records as you may have showing the individual depths of holes C-1 through C-81 which were drilled by Ortmayer, Sullivan and Boyle during the period June-July, 1953. We have only the probing record which does not include the total depth, as many of the holes were caved at the bottoms.

If this information is not in your files, please secure it from the present Operator, Sodak Uranium and Mining Company, Inc., as we must have the data in order that the final Report of Review can be completed.

W. M. TRAVER

W. M. Traver

JDC:jy
cc: Corresp. E517
Sec. Op. Comm. (2)
Townsend
Brading
Chron.

3/6/56 Lym

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

RECEIVED
MAR - 5 1956

224 New Customhouse
Denver 2, Colorado

March 1, 1956

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 2857 (Uranium), Contract Idm-E517, Sodak Uranium and Mining Company, Fall River County, S. Dak.

In conjunction with material forwarded by our memorandum of February 27, 1956, we are enclosing the original and three copies of a letter from Clyde Boyle, Sodak Uranium and Mining Company, dated February 28, 1956, wherein he requests that the contract be terminated as of March 1, 1956.

Mr. Boyle called this office February 28 and stated that he had drilled, at Company expense, two of the holes substantially as recommended by Cuppels in his memorandum report of February 13, 1956, which was forwarded to you with our memorandum of February 27, and that he planned to drill four additional holes in that general area.

The spacing of the holes drilled and those proposed to be drilled would be about the same as recommended by Cuppels. However, the holes drilled to date were moved to the West side line of the claims and we do not know whether he meant Parker No. 4 or Parker No. 5.

Inasmuch as the Contract expired October 1, 1955, it appears that a formal termination by mutual agreement is not necessary. We are enclosing two copies of our letter, dated February 28, 1956, to E. O. Binyon, Mining Engineer, Bureau of Mines, Rapid City, South Dakota, wherein we requested that he keep in close touch with the drilling and advise as to the results of the drilling being performed by the Operator.

We suggest that you hold in deferment the matter of certifying the project as a discovery or development until the results of the drilling performed by the Operator are known, as it may prove to be to the Government's interest to certify the project on the basis of the comparatively weak mineralization encountered in three of the holes drilled under Stage I.

W. M. Traver

W. M. Traver

Enclosures

SODAK URANIUM AND MINING CO., INC.
PHONE 473-W
HOTEL EVANS ANNEX
HOT SPRINGS, SOUTH DAKOTA

DMEA
Date Recd.
MAR 1 1956
BUREAU OF MINES
Denver, Colorado

February 28, 1956

RECEIVED
MAR - 5 1956

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

Re: Docket DMEA 2857 (Uranium)
Contract Idm-E517

Dear Mr. Traver:

I am herein requesting that Contract Idm-E517 be terminated as of March 1, 1956.

The results of the drilling, resumed in June, 1955, have been discouraging and there is no new geological evidence on which to base further drilling in the included area.

Will you kindly inform me regarding the final report and forward whatever papers are necessary to effect the termination.

Yours very truly,

Clyde Boyle

SODAK URANIUM AND MINING CO., INC.
CLYDE BOYLE

CBB:ld

SODAK URANIUM AND MINING CO., INC.
PHONE 473-W
HOTEL EVANS ANNEX
HOT SPRINGS SOUTH DAKOTA

DMEA
MAR 1 1956
BUREAU OF MINES
Denver Colorado

February 28, 1956

RECEIVED
MAR - 5 1956

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

Re: Docket DMEA 2857 (Uranium)
Contract Idm-E517

Dear Mr. Traver:

I am herein requesting that Contract Idm-E517 be terminated as of March 1, 1956.

The results of the drilling, resumed in June, 1955, have been discouraging and there is no new geological evidence on which to base further drilling in the included area.

Will you kindly inform me regarding the final report and forward whatever papers are necessary to effect the termination.

Yours very truly,

Clyde Boyle

SODAK URANIUM AND MINING CO., INC.
CLYDE BOYLE

CRB:ld

SODAK URANIUM AND MINING CO. INC
PHONE 47-W
HOTEL EVANS ANNEX
HOT SPRINGS SOUTH DAKOTA

DMEA
MAR 1 1956
BUREAU OF MINES
Denver, Colorado

February 28, 1956

RECEIVED
MAR - 6 1956

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

Re: Docket DMEA 2857 (Uranium)
Contract Idm-E517

Dear Mr. Traver:

I am herein requesting that Contract Idm-E517 be terminated as of March 1, 1956.

The results of the drilling, resumed in June, 1955, have been discouraging and there is no new geological evidence on which to base further drilling in the included area.

Will you kindly inform me regarding the final report and forward whatever papers are necessary to effect the termination.

Yours very truly,

Clyde Boyle

SODAK URANIUM AND MINING CO., INC.
CLYDE BOYLE

CRB:ld

COPY

224 New Customhouse
Denver 2, Colorado

February 28, 1956

RECEIVED
MAR - 5 1956

Memorandum

To: E. O. Binyon

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 2857 (Uranium), Contract Idm-E517, Sodak Uranium and Mining Company, Fall River County, S. Dak.

Reference is made to the five drill holes proposed by N. P. Cuppels in his report of February 13, 1956, a copy of which was forwarded to you by a copy of our letter to the Chairman of the Operating Committee, dated February 27, 1956.

We have been informed by the Operator that he has drilled at his own expense two of the holes substantially as recommended by Cuppels and contemplated drilling four more holes in that general area. The holes drilled and those proposed for the future are spaced approximately as shown on the map attached to Cuppels' report, except that they are moved to the West side line of the Parker No. 4 and No. 5 Claims.

Please investigate the matter of his drilling and keep us informed as to the location of the holes drilled and the results thereof.

W. M. Traver

JWT:prl
cc: Harshman
Cuppels
Townsend
Corres. file
Chron.

3/5/56 [illegible]

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

224 New Customhouse
Denver 2, Colorado

February 27, 1956

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 2657 (Uranium), Contract Idm-E517, Sodak Uranium and Mining Company, Fall River County, S. Dak.

In reference to your teletype of January 13, 1956, we are enclosing the following:

1. Original and three copies of a memorandum report, dated February 2, 1956, from E. O. Dinyon, Mining Engineer, Bureau of Mines.

2. Original and three copies of a memorandum report, dated February 13, 1956, from H. P. Cappels, Geologist, Geological Survey.

The Engineer recommends that no further work be performed under the Contract, but the Geologist recommends a small amount of rotary drilling in the general area where Stage II drilling was originally planned.

The Operator called this office by telephone February 14, 1956, and stated that he was preparing an outline of additional drilling which would be in our hands prior to March 1, 1956, which was the deadline set by our letter to him of February 9, 1956, copies of which were forwarded to you.

When the Operator's work outline is received, supplemental engineering and geologic reports will be prepared and forwarded to you with Field Team recommendations in the matter.

W. M. Traver

W. M. Traver

Enclosures

DMEA
Date Rec'd.

FEB 6 1956

BUREAU OF MINES
Denver, Colorado

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

This is in [illegible] to your memorandum of January 2, [illegible] a [illegible] report with [illegible] as to [illegible] done on the property under the [illegible] contract.

A summary of the project is [illegible]

Work on the project started [illegible] and was completed August 2, [illegible]. In all, a total of [illegible] holes with an aggregate total footage of 1[illegible],3[illegible] feet were drilled in Blocks [illegible]. Block I included areas on the Montana 1, Rising Star No. 4, [illegible] Hope and Hipercorter No. 1 claims, and Block II included areas on the Tomahawk No. 1 and No. 2, [illegible] and claims Block No. 2 [illegible]. Of the total 1[illegible],3[illegible] feet drilled, [illegible] feet was drilled in the 1[illegible] holes in Block I, and [illegible] holes, [illegible] an aggregate footage of [illegible], were drilled in Block [illegible].

The drilling footages [illegible], drilled [illegible] are [illegible] the contract [illegible]

| [illegible] | Stage | | Footage | Price |
|---|---|---|---|---|
| | Allowed | [illegible] | [illegible] | [illegible] |
| [illegible] I | 1[illegible],500 | [illegible] | [illegible] | [illegible] |
| [illegible] II | 21,500 | — | [illegible] | [illegible] |
| | [illegible] | [illegible] | [illegible] | |
| **A[illegible] No. 2** | | | | |
| [illegible] | [illegible] | [illegible] | — | [illegible] |
| [illegible] | [illegible] | [illegible] | — | [illegible] |
| [illegible] | 11,[illegible].5 | [illegible] | [illegible] | [illegible] |
| Total, [illegible] | [illegible] | [illegible] | [illegible] | |
| [illegible] | [illegible] | — | [illegible] | |
| | [illegible] | [illegible] | [illegible] | |

Phases I and II
and Stage II

The [illegible] are as follows:

| | Grade | Price per Unit | Amount |
|---|---|---|---|
| Stage [illegible], Zone I | [illegible] | [illegible] | [illegible] |
| Stage [illegible] | 3,909.[illegible] | 1.0[illegible] | [illegible] |
| Stage [illegible] | [illegible] | 1.[illegible] | [illegible] |
| Total | [illegible] | | [illegible] |
| Inadvertent delay 5h | [illegible] | 1.0 | [illegible] |
| | 1,[illegible] | | 1,[illegible] |
| Payment by the government to date [illegible] participation | | | 1,[illegible] |
| Less 10% withheld for final report | | | [illegible] |
| | | | 1,[illegible] |

Results of the drilling completed to date have been very unfavorable. Of 135 holes drilled in Block 1, only [illegible] holes, Nos. 180, 1[illegible], 210, 2[illegible], [illegible], 16, 1[illegible] and 19, showed mineralization, none of ore grade. Hole No. 1[illegible] of holes Nos. 88 and 90 indicated mineralization but not grade; however, a check of the cuttings with a geiger counter showed less than ore grade, and two offset holes spaced approximately 25 feet east and west of hole 28 failed to encounter any mineralization. Results of gamma ray logs of holes No. 37 through 48 indicated slight mineralization in holes Nos. 16, 18 and 19. In hole No. 16 the counts per second were 12 0 and 3[illegible] at depths 2[illegible] and [illegible] feet, respectively. Hole 18 had a 1,[illegible] cps at depth 3[illegible] feet, and in hole 19 at a depth of 22.[illegible] feet a 6[illegible] cps was recorded.

The drilling done under Stage I on the south end of the Montana No. 1 and Nation Peak adequately explored the area and the results were entirely negative. In the area on these claims, which as outlined under Stage I, Phase II, Amendment 1, was to be explored to a greater depth, less than half the proposed holes have been drilled. While there may be a possibility of ore deposits occurring in the spaces between the holes Nos. 1 through 5[illegible], in my opinion the area has been adequately explored and it is unlikely that any ore deposits will be found by additional drilling in the area.

On the Schoonmaker Nos. 1 and 2, Summer's Folly, and Nation Peak claims, 9 holes, Nos. 75, 86, 99, 100, 102, 104, 265, 266 and 272, as indicated on the map, showed mineralization. Of the 9 holes, holes 75 and 99 had three feet of slightly more than .10 percent $U_3O_8$ at approximately the same horizon; however, in hole 86 the mineralized horizon, with 3 feet of .0[illegible] percent $U_3O_8$, occurred at depth 12 to 1[illegible] feet, and no mineralization was encountered at the horizon in holes 75 and 99. In the remaining 6 holes no ore grade mineralization was encountered, the grade ranging from .013 to .036 percent $U_3O_8$. The hole location and assay results are listed below:

Assay Results

| Hole No. | Depth - Feet | Percent $U_3O_8$ |
|---|---|---|
| 75 | 27 - 30 | 0.124 |
| 76 | 12 - 15 | 0.03 |
| 89 | 26 - 29 | 0.06 |
| | 29 - 32 | 0.12 |
| 100 | 24 - 27 | 0.06 |
| 102 | 15 - 18 | 0.02 |
| | 18 - 21 | 0.02 |
| | 21 - 24 | [illegible] |
| 103 | 9 - 12 | — |
| | 12 - 15 | — |
| 104 | 3 - 6 | — |
| | 6 - 9 | 0.075 |
| | 9 - 12 | 0.025 |
| 150 | 15 - 18 | 0.065 |

Ore reserves for holes 75 and 89 are estimated at 130 tons of inferred ore for each hole, or a total of 260 tons of an ore grade of .100 percent $U_3O_8$.

If there could be any assurance that the operator would mine this small deposit, a few additional offset holes would be warranted to better delimit the deposit. However, as he has stated verbally that the property is to be returned to the owners, he no doubt does not intend to do any additional work.

In the remaining 172 holes, a check of the cuttings with a Geiger counter gave a reading of background count or only slightly above, and in none did the mineralization approach ore grade.

The operator originally proposed some exploration on the Parker group of claims (Parker 1 through 6) in sec. 3, T. 7 N., R. 3 E., just south of the Schoonmaker No. 1 and No. 2 claims. At the time of the examination, this area was considered less favorable than the areas that have been explored; however, the footage allotted under Stage II, or at least a part of this footage, was to be used to explore these claims in the event geologic mapping or additional work by the operator disclosed areas favorable. I understand that some geologic work has been done on these claims, but from the information obtained, the area could not be considered any more favorable than when originally examined.

The jacket, when in operation, had competent supervision. However, operations were intermittent and the delays between drilling, in part at least, were the fault of the operator. The operator also was very slow in submitting monthly reports.

Based on the foregoing, it is my opinion that additional work under the contract is not warranted and would not result in a significant discovery, and therefore it is recommended that the project be terminated.

A map showing the diamond drill holes, in [illegible] transmitted under separate cover.

[illegible]

[illegible] Trower (c)
[illegible]

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DMEA
Date Rec'd.
FEB 14 1956
BUREAU OF MINES
Denver, Colorado

Defense Minerals Exploration Administration
Denver Federal Center
Denver, Colorado

February 13, 1956

Memorandum

To: W. M. Trever, Executive Officer,
DMEA Field Team, Region III
Through: E. N. Burnham

From: N. P. Cuppels

Subject: Docket DMEA 2857 (Uranium), Contract Idm-E 517, Sodak Uranium and Mining Co., Fall River County, South Dakota

The following evaluation of the program of exploration under the subject contract is submitted in compliance with your request for recommendations concerning the advisability of further work under the contract.

Property subordinated by this contract consists of two groups of claims: a northern group in sections 27 and 34 comprising the claims Montana Nos. 1 and 2, Morning Glory, Ripsnorter Nos. 1 and 2, Matias Peak Nos. 1 and 2, Cyoad Nos. 1 and 2, Schoonmaker Nos. 1 and 2, and Gerner's Folly and a southern group in section 3 comprising the claims Parker Nos. 1 through 6. The program of exploration under Stage I of this contract was designed to investigate the probability that the middle sandstone unit of the Lakota sandstone contained ore bodies in addition to those that had been previously mined in this unit on the Montana No. 1, Matias Peak No. 1, and Cyoad No. 1 claims.

The 8,596.5 feet of drilling authorized for Phase I, Stage I has been completed. Anomalous radioactivity was discovered in 9 of the holes drilled under this phase and cuttings from 2 of these holes showed marginal ore mineralization through a stratigraphic interval of 3 feet. Subsequent offset drilling by the operator indicates that this ore body could not be mined economically. Of the 15,600 feet of drilling authorized for Phase II, 6,758 feet have been drilled with negative results. Results of this drilling have reduced the probability of finding ore in this drill area (Block 1) to a weak possibility and any further exploration of the area is not warranted. The operator's reluctance to prosecute this phase of the program suggests that he is in agreement with this conclusion.

No work has been performed under Stage II of the contract. Amendment No. 2 provides for 12,803.5 feet of drilling under this stage in Blocks Nos. 1, 2, and 3 as shown on the map entitled Exhibit C which accompanies the contract. These drill areas are enclosed by the Parker Claims Nos. 1 through 6. Without DMEA assistance, the operator has drilled 7 holes to a depth of 300 feet on the claims. These holes are numbered 100 through 106 on the map accompanying this report. In view of the negative results obtained in the Stage I drilling and similar results obtained by the operator in preliminary, non-DMEA exploration of the Parker area, the program of exploration scheduled for Stage II should be abandoned. However, results of recent

regional mapping by the U. S. Geological Survey indicate that structural and stratigraphic conditions in the basal Lakota sandstone underlying the Parker claims should have provided a favorable environment for ore deposition.

The Parker claims appear to be favorably located with respect to the Sheep Canyon Monocline which is a major geologic structure in the southern Black Hills. This south-trending monocline is parallel with, and on the west flank of, the Chilson Anticline. Regional, southwesterly dips of 3 to 4 degrees steepen to 12 degrees on this structure which extends for 9 miles along the Chilson Anticline. Approximately 4,000 feet west of the Parker claims, the axis of the monocline swings sharply eastward and should cross the claims. The line of holes drilled by the operator is roughly parallel the trend of the axis and is poorly located to check a projection of the axis into the claim area. Survey geologists who have mapped this monocline believe that the geographic distribution of ore deposits has a trend that corresponds roughly and is associated with the directional trend of the monocline. There is evidence that a zone near, and paralleling, the axis of the monocline is particularly favorable as a site for ore deposition.

In addition to the favorable location of the Parker claims with respect to the monoclinal axis, the claims are also in an area underlain by a major facies change in the basal Lakota sandstone. Southwest of the Parker claims, the basal

unit of the Lakota sandstone is a massive sandstone 100 feet thick whereas northeast of the claims, this stratigraphic interval is composed of thin-bedded sandstones and mudstones. The exact position of the claims with respect to the facies change is uncertain. This interval does not outcrop on or near the claims. A facies change of this type has been regarded as a favorable site for localization of ore deposits on the Colorado Plateau and there is some evidence that this criterion is valid in the Black Hills.

The location of the Parker claims relative to the structural and stratigraphic features described above is similar to that occupied by the Holdup No. 15, Kadoa No. 3, and Too Late mines. The Holdup No. 15 and Kadoa No. 3 mines are 1-1/2 miles northwest and the Too Late mine is 1/2 mile northwest of the Parker claims. The Holdup No. 15 is one of the 3 largest producers of uranium ore in the Black Hills and the Kadoa No. 3 and Too Late mines have produced substantial quantities of ore. Ore deposits at all three mines are within 80 feet of the Morrison-Lakota contact. Outcrops of this favorable interval are rare and consequently the interval has not been adequately explored. This interval underlies the Parker claims at a depth of 270 to 350 feet.

In view of the above considerations, it is recommended that the program of exploration as presently outlined for Stage II be abandoned in favor of a program which would explore the basal unit of the Lakota sandstone where it underlies the

Parker claims. Five holes drilled to a depth of 350 feet on the Parker claims Nos. 4 and 5 as shown on the accompanying map should establish the relationship between the claims and the structural and stratigraphic features described above. If the relationship is as favorable as geologic projection indicates, remaining footage under the contract should be devoted to an investigation of the basal unit of the Lakota sandstone in the claim area.

N. P. Cuppels, Geologist

NPCuppels:mp

2-14-56

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

RECEIVED FEB 13 1956

224 New Customhouse
Denver 2, Colorado

February 9, 1956

Mr. C. R. Boyle, President
Sodak Uranium and Mining Company, Inc.
P. O. Box 330
Edgemont, South Dakota

Re: Docket DMEA 2857 (Uranium)
Contract Idm-E517

Dear Mr. Boyle:

Reference is made to your letter of January 23, 1956, relative to your proposal for further drilling in an area different from that where past drilling under the DMEA Contract was performed.

Your letter implies that you are awaiting recommendations from the U. S. Geological Survey relative to the additional drilling. In that respect, it is contrary to DMEA regulations that personnel connected with DMEA act as consultants in setting up the work program to be performed under a DMEA contract. Therefore, if you are desirous of performing additional drilling, it is necessary that you formulate your plans relative to the drilling without assistance from DMEA.

We will defer final action in closing the contract account, giving you until March 1, 1956, to submit your proposal for any additional drilling to be performed under the Contract.

Very truly yours,

W. M. TRAVER

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

JWT:prl
cc: Chairman, Oper. Comm. (2) ) w/copy of Operator's letter
Harshman )
Binyon )
Townsend )
Corres. file
Chron.

SODAK URANIUM AND MINING CO., INC.
PHONE 473-W
HOTEL EVANS ANNEX
HOT SPRINGS, SOUTH DAKOTA

DMEA
Date Rec'd
JAN 26 1956
BUREAU OF MINES
Denver, Colorado

January 23, 1956

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

Re: Docket DMEA 2857 (Uranium)
Contract Idm-E517

Dear Mr. Traver:

I regret not having written before this. The date of expiration slipped my mind simply because we have concerned ourselves with one area within the contract, have done primary drilling within that area and have given the drill hole information to the U. S. G. S. for correlation.

In the event the information from the U. S. G. S. is favorable I I planned to ask for further drilling in the new area. This information should be available within the next ten days.

Therefore, if it is possible, I will request an extension of the contract to June 1, 1956.

Very truly yours,

C. R. Boyle

C. R. Boyle

1-19-56 dgm

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

RECEIVED
JAN 1 9 1956

Rm 8ow Customhouse
Denver 2, Colorado

CERTIFIED MAIL

January 16, 1956

Mr. C. R. Boyle, President
Sodak Uranium and Mining Company, Inc.
P. O. Box 330
Edgemont, South Dakota

Re: Docket DMEA 2057 (Uranium),
Contract Ida-2517

Dear Mr. Boyle:

In your narrative report pertaining to work performed during the month of August, 1955, you state to the effect that no further drilling within the grid is recommended and that within the week you will request an amendment to permit further drilling within the area included in the contract.

Since considerable time has elapsed and the period for completion of the project work expired October 1, 1955, and we have heard nothing further from you, we will appreciate advice from you by return mail as to your plans regarding future work to be performed under the contract.

As the matter now stands, you are in default under the terms of the contract for not having brought the work to completion within the period stipulated. If for some reason beyond your control you were unable to comply with the terms of the contract, you should outline these conditions and present them for the Government's consideration.

Very truly yours,

W. M. TRAVER

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

JWT:prl
cc: Chairman, Oper. Comm. (2)
Hershman
Bingen
Townsend
Corres. file
Chron.

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

JAN 13 1956

700

DEPARTMENT OF THE INTERIOR

DMEA

14X4401(01) Revolving Fund, Defense Production Act, Interior (Allocated Working Fund to the Office of the Secty.)

TELETYPE

W. M. TRAVER
EXECUTIVE OFFICER
DMEA FIELD TEAM, REGION III
924 NEW CUSTOMHOUSE BUILDING
DENVER 2, COLORADO

REDRTY JANUARY 6 DMEA-2857 DOMAK URANIUM AND MINING COMPANY, INC., IS ADDITIONAL EXPLORATION JUSTIFIED IN CONTRACT AREA REFERRED TO IN OPERATOR'S AUGUST MP-104 NARRATIVE? IF JUSTIFIED WHAT IS OPERATOR'S POSITION REGARDING SUGGESTED AMENDMENT?

George C. Selfridge
GEORGE C. SELFRIDGE
CHAIRMAN, OPERATING COMMITTEE

Knouse/gla/izm 1-12-56
to: Admr.'s Reading File
Operating Committee
Docket
Code 700
JECrawford, Rm. 3641
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA
Mr. Knouse

Confirmation to Region III

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

DEPARTMENT OF THE INTERIOR

DMEA

14X44G1(GA) Revolving Fund,
Defense Production Act, Interior
(Allocated Working Fund to the Office
of the Secty.)

TELETYPE

(Uranium)

W. M. TRAWER:
EXECUTIVE OFFICER
DMEA FIELD TEAM, REGION III
234 NEW CUSTOMHOUSE BUILDING
DENVER 2, COLORADO

REURTT JANUARY 6 DMEA-2657 SODAK URANIUM AND MINING COMPANY, INC., PLEASE FURNISH YOUR RECOMMENDATIONS WITH JUSTIFICATION FOR CONSIDERATION. ALSO, WHAT IS OPERATOR'S POSITION REGARDING SUGGESTED AMENDMENT MENTIONED IN AUGUST MP-104 NARRATIVE.

GEORGE C. SELFRIDGE
CHAIRMAN, OPERATING COMMITTEE

FLKnouse/gla
1-11-56
cc to: Admr.'s Reading File
Operating Committee
Docket
Messrs. JECrawford, Rm. 3641
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA
Code 700
Mr. Knouse
Confirmation to Region III

1/9/56 gla

COPY

N 235 BUR MINES 1-6-56 4-15

CHAIRMAN, OPERATING COMMITTEE, DMEA

RE DOCKET DMEA 2857, CONTRACT IDM-E517, SODAK URANIUM AND MINING CO., INC.

LAST WORK PERFORMED COVERED BY REPORT FOR AUGUST 1955. CONTRACT EXPIRED 10-1-55, LEAVING CONSIDERABLE AMOUNT OF WORK UNCOMPLETED. PROSPECTS FOR A SIGNIFICANT DISCOVERY BY ADDITIONAL WORK NOT GOOD ALTHOUGH NOT COMPLETELY DISPROVEN BY WORK TO DATE. NO CERTIFICATION TO BE RECOMMENDED. THIS OFFICE AGREEABLE TO LET CONTRACT EXPIRE. PLEASE TELETYPE ADVICE AS TO HOW WE SHOULD PROCEED.

W. M. TRAVER

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

RECEIVED
NOV - 2 1955

224 New Customhouse
Denver 2, Colorado

October 31, 1955

**Memorandum**

To: Secretary to the Operating Committee, DMEA

From: Executive Officer, DMEA Field Team Region III

Subject: DMEA Docket 2857 (Uranium), Contract Idm-E517, Sodak Uranium and Mining Company, Inc., Fall River County, South Dakota

Enclosed are two copies of the Operator's Monthly Progress Report, Form MF-104 and MF-104A, Operator's Narrative Report, Inspecting Engineer's Narrative Report, and other supporting data pertaining to work under the subject contract for the period August, 1955.

W. M. Traver

By J. W. Townsend
J. W. Townsend

Enclosures

RECEIVED
NOV - 2 1955

U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
REGION IV

Administrative Audit Difference Statement

Date: Oct. 27, 1955
Payee's
Reference: August 1955

Cochise Drilling and Mining Co.
15 North Mayer Avenue
Tucson, Arizona

Gentlemen:

Upon examination of the above Payee's Reference a difference was found which made it necessary to suspend your account accordingly:

Amount Claimed $2,243.26

Difference $ 16.16

Amount Approved $ 2,212.10

The reason for the difference was due to:

Disallowed 16 feet of rotary drilling, the total footage for hole 54, as this hole did not approach the approximate depth of 150 feet stipulated in the contract.

* (160.00 withheld pending release of the final report of review by the Contract Administration and Audit Division.

Any reclaim for deductions made above must be supported by the ORIGINAL of this form.

Very sincerely yours,

N. E. Stokes
Audit Section

R-IV-B & F Form No. 4
4-15-52 D

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

RECEIVED
NOV - 3 1955

224 New Customhouse
Denver 2, Colorado

October 17, 1955

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region III

Subject: DMEA Docket 2857, (Uranium) Contract Idm-E517, Sedak Uranium and Mining Company, Inc., Fall River County, South Dakota - Operator's Monthly Progress Report, for the period August, 1955

Enclosed are the original and four copies of Form MF-104 and MF-104A, Narrative Report, and Engineer's Report for the above period.

Work has been completed as authorized by the contract. No documentation is required for work performed under contracts prepared on Form MF-200A, therefore, we recommend that payment be made for 90 percent of the amount reported by the Operator on Form MF-104, contingent on your verification of arithmetical accuracy within the report, except as noted below.

(a) Disallow 16 feet of rotary (wagon drill) drilling, the total footage for hole 54, as this hole did not approach the approximate depth of 130 feet stipulated in the contract (Amendment No. 2, Phase II (a))

(b) Withhold $100.00 pending receipt of Operator's and Government Final Reports and release of the Final Audit or Report of Review by the Contract Administration and Audit Division, DMEA. The Contract expired on October 1, 1955

Remarks

JDC:jy
c: MF-104
File E517
Sec. Op. Comm. (2)
Binyon
Townsend
Chron.

Date of Report- - - - - - - - - - - - - - - - - - - - - - - September 22, 1955
Date Received in Field Office- - - - - - - - - - - - - - - September 27, 1955
Date Received in Region Office- - - - - - - - - - - - - - October 10, 1955

W. M. Traver

W. M. Traver

Enclosures

RECEIVED

Rapid City Experiment Station
School of Mines Campus
Rapid City, South Dakota

October 7, 1955

Memorandum

To: W. M. Traver, Executive Officer, DMEA Field Team, Reg. III

From: E. O. Binyon

Subject: Progress Reports for August 1955, Docket DMEA 2857 (Uranium), Contract Idm-8517, Sedak Uranium and Mining Co., Fall River County, S. Dak.

Transmitted herewith in quintuplicate are the following:

1) Bureau Engineer's Narrative Report
2) Operator's MF-104 and MF-104a
3) Operator's Narrative Report, with Table "A" showing hole numbers, depth, radiometric readings, and depths at which the radioactivity was found
4) Map showing location of holes.

Also enclosed are four extra copies of the engineer's narrative report.

The operator's reports were received at this office on September 27, 1955.

All drilling, except as noted, was done in conformance with the terms of the contract, and it is recommended that the government's share of the expenditures, or $1,908.89, be paid.

E. O. Binyon

cc: Traver (8)
files

Rapid City Experiment Station
School of Mines Campus
Rapid City, South Dakota

October 7, 1955

Memorandum

To: W. M. Traver, Executive Officer, DMEA Field Team, Reg. III

From: E. O. Binyon

Subject: Progress Report for August 1955, Docket DMEA 2857 (Uranium), Contract Idm-E517, Sedak Uranium and Mining Co., Inc., Fall River County, S. Dak.

The operator resumed drilling on August 9 and completed the work covered by the subject reports on or about August 19, 1955.

The subject reports were received on September 27, 1955. A visit was made to the property on August 26 and again on September 26, when a check survey was made of the location of the holes and also cuttings from those holes reported to have slight mineralization were checked with a Geiger counter. As reported by the operator, the cuttings from holes Nos. 46 and 48 at depths of 26 and 36-37 feet showed slight mineralization, but the cuttings from holes Nos. 37 and 43 gave a reading only slightly above background.

All drilling was done in conformance with the terms of the contract, with the exception of hole No. 54 which, as reported, was drilled to a depth of only 16 feet. Although there is no provision in the contract for non-payment for incompleted holes, it is stipulated that drilling in this area was to go to depths of 130 to 140 feet. Therefore, it is recommended that hole No. 54 be disallowed.

As the contract expired October 1, 1955 (Amendment No. 4), and a request for an extension has not been received, and the operator stated in the narrative report that "No further drilling within the grid is recommended ---," and also verbally has expressed the opinion that it was unlikely that further drilling would result in a discovery, it is apparent that he will not be agreeable to further drilling in the area, although it may be warranted. The operator also mentioned in the narrative report that he is going to request an amendment to permit drilling in other parts of the property; however, he stated verbally on September 26 that his finances were at a very low point and it is perhaps not possible for the company to continue with the project. From the foregoing, it is likely that these reports may be the last to come in and it is therefore suggested that $100.00 be withheld for the final report.

The payment as recommended is itemized below:

| | |
|---|---|
| Footage reported by the operator | - 2,226 |
| Footage disallowed, hole No. 54 | 16 |
| Footage allowed | 2,210 |
| 2,210 feet @ $1.01 per ft. | $ 2,232.10 |
| Government's share @ 90% | 2,008.89 |
| Less $100 for final report | - 100.00 |
| Amount recommended for payment | $ 1,908.89 |

The contract expired October 1, 1955.

E. C. Binyon

cc: Traver (8)
files

COPY

SODAK URANIUM & MINING CO., INC.

Phone MOhawk 27205 - P. O. Box 339

Edgemont, South Dakota

September 24, 1955

Re: Docket No. 2857
Contract IDM-E517

Mr. E. O. Binyon, Mining Engineer
U. S. Bureau of Mines
Rapid City Branch
School of Mines Campus
Rapid City, South Dakota

Dear Mr. Binyon:

Please find enclosed the drilling report for the above contract for the month of August, 1955.

There is the original and four copies of the two forms, narrative, Table A and Map No. DM-6

Yours very truly,

S/ Clyde Boyle

-104 (Rev.)
pril 1952)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1036.4
Approval expires 6-30-53.

RECEIVED
NOV - 3 1955

# OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of August, 195 Docket No. DME 2857 Contract No. DMA-2517
Operator's Name Sodak Uranium & Mining Co., Inc. Minerals Uranium
Address P. O. Box 330, Edgemont, S. D.
Contract Amount, 38,945.00 Government Participation 90 % Amount, 35,050.50

| ITEMS OF COSTS | FOR OPERATOR'S USE: Monthly Total | Totals Previously Reported | Totals To Date | FOR GOVERNMENT USE ONLY: Approved Monthly Total | Approved Totals Previously Reported | Approved Totals To Date |
|---|---|---|---|---|---|---|
| (1) Independent Short Form Contracts: | 2248.26 | 13,634.79 | 15,883.05 | | | |
| Drilling Rotary | 2226' | | | | | |
| Bulldozing | | | | | | |
| Crosscutting | | | | | | |
| Drifting | | | | | | |
| (2) Labor and Supervision: | | | | | | |
| Labor | | | | | | |
| Supervision | | | | | | |
| Technical Services | | | | | | |
| (3) Operating Mat'ls. and Supplies: | | | | | | |
| Timber | | | | | | |
| Explosives | | | | | | |
| Pipe | | | | | | |
| Track | | | | | | |
| (4) Operating Equipment: | | | | | | |
| Rental | | | | | | |
| Purchase | | | | | | |
| Depreciation | | | | | | |
| (5) Initial Rehabilitation and Repairs | | | | | | |
| (6) New Bldgs., Improvements, etc. | | | | | | |
| (7) Miscellaneous: | | | | | | |
| Repairs to Equipment | | | | | | |
| Sampling and Analysis | | | | | | |
| Payroll Taxes | | | | | | |
| Liability Insurance | | | | | | |
| (8) Contingencies (specify): | | | | | | |
| TOTALS | 2248.26 | 13,634.79 | 15,883.05 | 2332.10 | 13,634.79 | 15,866.89 |

I certify that the above bill is correct and just and that payment therefor has not been received.

Date 8-22-55 *Payee Sodak Uranium & Mining Co., Inc.

Per C. R. Boyle Title President

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—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.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$1,908.89

Signature RRQ
(Authorized Certifying Officer)

Date 10/28/55 Vou. No. DMA-56-37

(See other side)

(For Government use only)

For payment $1,908.89

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. Idm-2517 in accordance with the terms of the contract.

Signature E O Benson Title Mining Engineer Date October 7, 1955

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature W. M. Lamer Title Executive Officer Date OCT 17 1955

# MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

*Preparation of Form MF-104—Operator's Monthly Report and Voucher.*—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

GPO 83-38476

n MF-104A
(April 1952)

Budget Bureau No. 42-R1151
Approval expires 6-30-53.

# UNITED STATES
# DEPARTMENT OF THE INTERIOR

## DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
NOV - 2 1955

# OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of Aug. 195 5 Docket No. DMEA 2857 Contract No. IDE-E517
Operator's Name Sodak Uranium & Mining Co., Inc. Minerals Uranium
Address P. O. Box 330, Edgemont, South Dakota

| OPERATION | Unit | Costs This Month | Units This Month | Costs to Date | Units to Date | Unit Costs to Date | Authorized by Contract: Units | Authorized by Contract: Unit Costs |
|---|---|---|---|---|---|---|---|---|
| Drifting | | | | | | | | |
| Crosscutting | | | | | | | | |
| Raising | | | | | | | | |
| Shafts | | Stage I, Unamended & Amend. #2 | | | | | | |
| ~~Winzes~~ Rotary | Ft. | ----- | ----- | 8,940.36 | 8596.6 | 1.04 | 8596.5 | 1.04* |
| Drilling: Core | | Stage I, Phase II, Amend. #2 | | | | | | |
| Churn | Ft. | --- | ---- | 4,059.64 | 3903.5 | 1.04 | 3903.5 | 1.04** |
| Auger | | Stage I, Phase II, Amend #2 | | | | | | |
| Stripping | Ft. | 2248.26 | 2226 | 2,883.05 | 2854.5 | 1.01 | 11696.5 | 1.01*** |
| Trenching | | | | | | | | |
| Test Pits | | | | | | | | |
| Roads and Trails | | | | | | | | |
| Total Distributed Costs | | 2248.26 | | 15,883.05 | | | | Total Costs Authorized by Contract |
| Operating Equipment Purchased | | | | | | | | |
| Initial Rehabilitation and Repairs | | | | | | | | |
| New Buildings, Improvements, etc. | | | | | | | | |
| Analysis, 300 @ 4.00 | | | | | | | | 1,200.00 |
| Total Costs | | 2246.26 | | 15,883.05 | | | | 35,945.00 |

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

Date 9-22-55 Operator Sodak Uranium & Mining Co., Inc.

Per [signature] Title President

Remarks:
*Stage I, Cont. transferred to Stage I, Phase I, mend No. 2.
** Stage I, Phase II by Amedn2
*** Stage I Phase II by Amend2

→ NOTE.—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.

(Instructions on reverse)

E O Benyon 10/7/55

(For Government use only)

## INSTRUCTIONS

*Preparation of Form MF–104A—Operator's Unit Cost and Progress Report.*—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF–104A has been designed to tie in with Form MF–104 for both monthly and cumulative costs. The "Total Costs" on Form MF–104A for each month should equal the monthly "Total Costs" as reported on Form MF–104. This is also true of the "Total Costs To Date".

In preparing Form MF–104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 83-38475

SODAK URANIUM AND MINING CO., INC.

DRILLING NARRATIVE FOR AUGUST, 1955

RECEIVED

DMEA
Docket No. 2357
Contract No. IDM-E517

Nineteen holes were drilled during August, 1955. These holes were drilled within the grid on north and south trending lines between the center and each side. A total of 2226' was drilled. The attached Table A shows the depth and amount of radioactivity of each hole. The radioactivity is stated in counts per second as measured by the Esterline-Angus Gamma Ray Logging instrument. The survey was made by the U. S. Atomic Energy Commission, Hot Springs Sub Office.

Hole No. 30, reported in the Narrative for March, April and May, 1955, was offset by four holes in four directions at 25' spacing. The radioactivity observed in the cuttings and from the probe survey was of minimum amount and the cuttings were not assayed. These holes were drilled at the Contractor's expense and are not included in any footage reported on Forms MF-104 or MF-104A.

As shown in Table A, no radioactivity of ore grade was observed in any of the holes reported for this month. No further drilling within the grid is recommended and within the week I will request an amendment to permit further drilling within the area included in the contract.

C. R. Boyle

C. R. Boyle

TABLE 'A'

| Hole No. | Total Depth | Radioactivity in Counts per sec. | at |
|---|---|---|---|
| 37 | 120' | 210 | 45.5' |
| 38 | 130' | 165 | 60.5' |
| 39 | 135' | neg. | |
| 40 | 130' | 110 | 12' |
| 41 | 135 | 125 | 11.08 |
| 42 | 130' | 120 | 32.0' |
| 43 | 130 | 140 | 13.0' |
| 44 | 130 | 105 | 17.0' |
| 45 | 130' | neg. | |
| 46 | 130' | 1200 | 26.0' |
| " | | 840 | 44.5' |
| 47 | 130 | neg. | --- |
| 48 | 130' | 1750 | 36.5' |
| 49 | 130' | 600 | 22.5' |
| 50 | 130' | 200' | 26.0' |
| 51 | 130' | neg. | ---- |
| 52 | 130' | neg. | ---- |
| 53 | 130' | Neg. | ---- |
| 54 | 16' | neg. | ---- |

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

224 New Customhouse
Denver 2, Colorado

August 1, 1955

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA-2857 (Uranium), Contract Idm-E517
Sodak Uranium and Mining Company, Inc.
(formerly Ortmayer, Sullivan and Boyle)
Fall River County, South Dakota.

Enclosed are two copies of the Operator's Monthly Progress Report, Form MF-104 and MF-104A, Operator's Narrative Report, Inspecting Engineer's Narrative Report, and other supporting data pertaining to work under the subject contract for the period March, April and May, 1955.

W. M. Traver

W. M. Traver

Enclosures

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

224 New Customhouse
Denver 2, Colorado

July 27, 1955

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region III

Subject: DMEA Docket 2857 (Uranium), Contract Idm-E517, Sodak Uranium and Mining Co., Inc. (formerly Ortmayer, Sullivan, and Boyle), Fall River County, South Dakota - Operator's Monthly Progress Report for the period March, April and May, 1955

Enclosed are the original and four copies of form MF-104 and MF-104A, Narrative Report, and Engineer's Report for the above period.

Work has been completed as authorized by the contract. No documentation is required for work performed under contracts prepared on form MF-200A, therefore we recommend that payment be made for 90 percent of the amount reported by the Operator on form MF-104, contingent on your verification of arithmetical accuracy within the report.

The amount of $100.00 which was withheld from the September-October 1953 report pending receipt of a final report from the Operator is to be reinstated and payment of same to be made at this time.

Remarks:

Date of Report.....June 24, 1955
Date Received in Field Office.....July 5, 1955
Date Received in Region Office.....July 26, 1955

RDB:sr Delay due to necessity of returning forms for correction.

cc Subject
Sec. Op. Comm. (2)
Townsend c/copy engr. rept.
Pinyon
Iron

W. M. Traver

W. M. Traver

Enclosures

DMEA
Date Rec'd.
JUL 26 1955
BUREAU OF MINES
Denver, Colorado

Rapid City Experiment Station
School of Mines Campus
Rapid City, South Dakota

July 24, 1955

Memorandum

To: W. M. Traver, Executive Officer, DMEA Field Team, Reg. III

From: E. O. Binyon

Subject: Monthly Progress Reports, March, April, May 1955, Docket DMEA 2867, Contract Idm-X517 (Uranium) Sodak Uranium and Mining Co., Inc. (formerly Ostmayer, Sullivan & Boyle) Fall River County, S. Dak.

Enclosed are the original and four copies of the subject operator's monthly report Forms MF-104 and MF-104A, a map showing location of the holes, a list of the holes , a probe survey of Hole 30, and a narrative report covering work completed under the contract for the period From February 22 to June 1, 1955.

Attached to the operator's reports are copies of a Progress Report for March, April, and May, 1955 and a breakdown of the footage reported for this period and a resume' of the drilling completed to date.

The work as reported for the period is correct and was done in conformance with terms of the contract. It is recommended that the operator be reimbursed for the government's share of the expenditure (90%) of $1,246.82 as shown on Form MF-104 for March, April, and May, 1955.

Through oversight, I failed to notice that the $100.00 which was deducted from the payment due the operator as shown on the October 1953 MF-104 for a final report has not been reinstated or paid to the operator in the payments of subsequent vouchers submitted for August and September, 1954. In order that the accounts can be brought up to date and carried forward correctly, it is recommended that the operator be paid this 100.00

The reports were received from the operator on July 5, however owing to the press of other DMEA work and failure to contact the operator the reports were not submitted to Denver until July 15. As additional information concerning the reports and the previous drilling were required the reports were returned for corrections and additonal information.

No drilling has been done under Stage II of the
ended under Amendment No. 2.

E. O. Binyon

DOCKET DMEA 2857-CONTRACT IDM-2517 (Uranium)
Sodak Uranium and Mining Co., Inc.
(Ortmayer, Sullivan & Boyle)
Fall River County, South Dakota

DMEA NARRATIVE REPORT
March, April, May 1955

The drilling completed during the reporting period, March, April and May, 1955 has been inspected weekly since resumption of drilling operations on February 22, and was again inspected on July 7 to check the operator's monthly progress reports for the period. Also, the operator was contacted on July 13 to check the correctness of the report of near ore grade mineralization in Hole 30.

The hole had been previously reported (verbally) as showing only weak radioactivity and a check of the cuttings showed a count slightly above background. However, the operator reported that probe results with another instrument indicated a mineralized section of 2 feet from depth 45.5 to 47.5 which is, from the probe reading, ore grade.

Hole 16 was reported at the time of drilling to have some mineralization and the operator drilled two offset holes-28A and 28B ( not under contract) to check the lateral extent. Hole 28B was reported to have 5 feet of mineralization of good grade but the cuttings showed no count on the Bureau's counter.

As reported, Holes Nos. 29, 31, 32, 33, 34, 35, and 36 had no mineralization. Holes Nos. 30, 31, and 32 were the first three drilled in the row (Operator's map) and were drilled to the depths of 175, 175, and 200 feet respectively in an effort to establish with certainty the depth of the lower mineralized sandstone, and to determine more exactly the depth for future drilling.

Copies of the Survey of Drill Holes Table A and the Probe Survey of Drill Holes submitted by the operator have been retained at this office.

It is recommended that the operator be paid the government's share of 50% of the expenditure of $1,246.32 as submitted on the MF-104 and MF-104A forms for March, April, and May, 1955.

The contract expires October 1, 1955.

Docket DMEA 2857
Contract Idm-E517 ( Uranium)
Sodak Uranium & Mining Co. Inc.
(formerly Ortmayer, Sullivan & Boyle)
Fall River County, So. Dak.

BREAKDOWN OF DRILLING
for
Period: March, April, & May, 1955

| Amended Contract- Amendment No. | Allowed | Footage Drilled | Remaining |
|---|---|---|---|
| Stage I-Phase II | | | |
| Aug. & Sept. 1954 @ $1.04 per foot | 2,903.5 | 2,315 | 588.5 |
| Mar., Apr., & May, 1955, @ $1.04 per foot | | 588.5 | ----- |
| Total @ $1.04 | 2,903.5 | 2,903.5 | None |
| Stage I-Phase II, Prior to & for Aug. & Sept. 1954 @ $1.01 | 11,696.5 | ----- | 11,696.5 |
| Mar. Apr., & May, 1955 @ $1.01 per foot | | 628.5 | 11,068 |
| Total @ $1.01 | 11,696.5 | 628.5 | 11,068 |
| Stage II | 12,803.5 | ----- | 12,803.5 |
| TOTAL | | | |
| Stage I-Phase II @ $1.04 per foot. | 2,903.5 | 2,903.5 | None |
| Stage I-Phase II @ $1.01 per foot | 11,696.5 | 628.5 | 11,068 |
| Stage II @ $1.01 per ft. | 12,803.5 | ----- | 12,803.5 |
| | 28,403.5 | 4,5[illegible] | 23,871.5 |
| Stage I-Phase I $1.04/ft. (As of Oct. 1953) | 8,596.5 | 8,596.5 | None |
| | 37,000 | 13,128.5 | 23,871.5 |

Docket [illegible] 2857
Contract Idm-E517(Uranium)
Sodak Uranium & Mining Co., Inc. (formerly Ortmayer Sullivan & Boyle) Fall River County, S. Dak.

RESUME AND BREAKDOWN OF DRILLING
(To and including May, 1955)

The footages allowed and drilled under the unamended contract are:

| | Allowed | Price per Ft. | Drilled | Remaining |
|---|---|---|---|---|
| Stage I | 12,500 | $1.04 | 8,596.5 | 5,903.5 |
| Stage II | 24,500 | $1.01 | — | 24,500 |
| Total | 37,000 | | 8,596.5 | 28,403.5 |

By Amendment No. [illegible] the 8,596.5 feet drilled under Stage I of the unamended contract was placed under Stage I, Phase I of the amended contract, and the remaining footage-3,903.5 was transferred to Stage I, Phase II with the price per foot at $1.04. Also the footage allowed and remaining under Stage II of the unamended contract was reduced from 24,500 feet to 12,803.5 and the difference transferred to Stage I Phase II of the amended contract at the price per foot of $1.01.

The footages allowed and drilled under the amended contract are:

| | Allowed | Drilled | Remaining |
|---|---|---|---|
| Stage I (Amend. No. 2) Phase I (To and including Oct. 1953) | 8,596.5 | 8,596.5* | — |
| Phase II $1.04 | 3,903.5 | 3,903.5** | — |
| Phase II $1.01 | 11,696.5 | 628.5*** | 11,068 |
| Total Stage I, Phase II | 15,600 | 4,532 | 11,068 |
| Total Stage I, Phase I & Phase II | 24,196.5 | 13,128.5 | 11,068 |
| Stage II (price per ft. $ 1.01) | 12,803.5 | — | 12,803.5 |
| Total Stage I, Phase I & II and Stage II | 37,000 | 13,128.5 | 23,871.5 |

* Actually drilled under Stage I of unamended contract

** Includes; 1250 ft. Aug. 1954, 2085 ft. Sept. 1954, 568.5 ft. Mar. Apr. & May, 1955

*** Also drilled in Mar. Apr. & May, 1955.

Form MF-104 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.3.
Approval expires 6-30-53.

# UNITED STATES
# DEPARTMENT OF THE INTERIOR
## DEFENSE MINERALS EXPLORATION ADMINISTRATION
# OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of [illegible], 195[illegible] Docket No. DMEA [illegible] Contract No. [illegible]-[illegible]17
Operator's Name [illegible] Mining Company, Inc. Minerals [illegible]
Address [illegible] Box [illegible], [illegible], [illegible]
Contract Amount, $[illegible] Government Participation: [illegible] % Amount, $[illegible]

| ITEMS OF COSTS | FOR OPERATOR'S USE: Monthly Total | Totals Previously Reported | Totals To Date | FOR GOVERNMENT USE ONLY: Approved Monthly Total | Approved Totals Previously Reported | Approved Totals To Date |
|---|---|---|---|---|---|---|
| (1) ~~Independent~~ Short Form Contracts: | | | | | | |
| Drilling [illegible] | 1246.83 | 12337.96 | 13634.79 | | | |
| Bulldozing | | | | | | |
| Crosscutting | | | | | | |
| Drifting | | | | | | |
| (2) Labor and Supervision: | | | | | | |
| Labor | | | | | | |
| Supervision | | | | | | |
| Technical Services | | | | | | |
| (3) Operating Mat'ls. and Supplies: | | | | | | |
| Timber | | | | | | |
| Explosives | | | | | | |
| Pipe | | | | | | |
| Track | | | | | | |
| (4) Operating Equipment: | | | | | | |
| Rental | | | | | | |
| Purchase | | | | | | |
| Depreciation | | | | | | |
| (5) Initial Rehabilitation and Repairs | | | | | | |
| (6) New Bldgs., Improvements, etc. | | | | | | |
| (7) Miscellaneous: | | | | | | |
| Repairs to Equipment | | | | | | |
| Sampling and Analysis | | | | | | |
| Payroll Taxes | | | | | | |
| Liability Insurance | | | | | | |
| (8) Contingencies (specify): | | | | | | |
| TOTALS | ~~1246.83~~ | ~~12337.96~~ | ~~13634.79~~ * | 1246.83 | 12337.96 | 13634.79 |

I certify that the above bill is correct and just and that payment therefor has not been received.

Date [illegible] *Payee [illegible] Mining Company, Inc.

Per C. R. Bryce Title President

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—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.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 1,222.15

Signature [illegible]
(Authorized Certifying Officer)

Date 7/29/55 Vou. No. DMA-56-11
(See other side)

* 100.00 — withheld on September-October 1953 report reinstated

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE: Amount $ 1,849.35

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. Idm-5517 in accordance with the terms of the contract.

Signature E. O. Bingham Title Mining Engineer Date July 18, 1955

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE: Berk.

Signature W. M. Inman Title Executive Officer Date JUL 27 1955

# MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

*Preparation of Form MF-104—Operator's Monthly Report and Voucher.*—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

GPO 83-38476

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

# UNITED STATES
# DEPARTMENT OF THE INTERIOR

## DEFENSE MINERALS EXPLORATION ADMINISTRATION

# OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of ~~May~~ Mar., April 1955 Docket No. DMEA 2857 Contract No. IDM-1517

Operator's Name Sodak Uranium & Mining Co., Inc. Minerals Uranium

Address P. O. Box 880, Edgemont, So. Dak

| OPERATION | Unit | Costs This Month | Units This Month | Costs to Date | Units to Date | Unit Costs to Date | Authorized by Contract: Units | Authorized by Contract: Unit Costs |
|---|---|---|---|---|---|---|---|---|
| Drifting | | | | | | | | |
| Crosscutting | | | | | | | | |
| Raising | | | | | | | | |
| Shafts | | | | | | | | |
| Winzes | | | | | | | | |
| Drilling: ~~Core~~ Rotary ~~Churn~~ Stage I (unamend) & Amend. #2 ~~Auger~~ | Ft. | — | — | $ 8,940.36 | 8,596.5 | $1.04 | 8,596.5 | $1.04 |
| ~~Stripping~~ Stage I Phase II ~~Trenching~~ Amend. #2 | Ft. | $ 612.04 | 588.5 | $ 4,050.64 | 3,888.5 | $1.04 | 3,888.5 | $1.04 |
| ~~Test Pits~~ Stage I, Phase II Amend. #2 | Ft. | 654.70 | 628.5 | $ 654.70 | 628.5 | $1.01 | 1628.5 | 1.01 |
| ~~Roads and Trails~~ | | | | | | | | |
| Total Distributed Costs | | $ 1,246.85 | | $15,654.70 | | | | Total Costs Authorized by Contract |
| Operating Equipment Purchased | | — | | — | | | | — |
| Initial Rehabilitation and Repairs | | — | | — | | | | — |
| New Buildings, Improvements, etc. | | — | | — | | | | — |
| Analyses 200 @ $4.00ea | | — | | — | | | | $ 1,200.00 |
| Total Costs | | $1,246.85 | | $15,654.70 | | | | $35,945.00 |

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

Date 6/24/55 Operator Sodak Uranium & Mining Company, Inc.

Per C. F. Boyle Title President

Remarks: Stage I Cont. transferred to Stage I, Phase I Amend. #2. Stage I, Phase II by Amend #2 Stage I, Phase II by Amend. #2

→ NOTE.—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.

(Instructions on reverse)

(For Government use only)

E. O. Bunyon 7/25/55
Mining Engineer

## INSTRUCTIONS

*Preparation of Form MF-104A—Operator's Unit Cost and Progress Report.*—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF-104A has been designed to tie in with Form MF-104 for both monthly and cumulative costs. The "Total Costs" on Form MF-104A for each month should equal the monthly "Total Costs" as reported on Form MF-104. This is also true of the "Total Costs To Date".

In preparing Form MF-104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 872894

Wagon Drilling Narrative
for
March, April & May, 1955

DMEA
Docket No. 2857
Contract No. IDM-E517

During the period shown above 9 holes were drilled under this contract. Delays were due to lack of finance, poor equipment and bad weather. The first two items have been arranged and reccomended drilling can proceed steadily for the next six months. The contract has been extended to October 1,1955. Also pending is an assignment of this contract from Ortmayer, Sullivan and Boyle to Sodak Uranium & Mining Company, Inc., of the same address.

The following table gives the depth of each hole and notes the presence of radioactivity. Table B is the Probe Survey of Hole No. 30. The location of the holes is shown on Map No. DM-6.

Samples were taken from all holes at 3 ft. intervals, logged and lithologic sections were drawn. These will be incorporated in a final report and are not enclosed at this time.

Although carnotite was not observed in the cuttings from Hole No. 30, it is recommended that offset holes be drilled. Further drilling, beyond the proposed offsets, can be decided at a conference with the D. M. E. A. Field Team.

C. F. Boyle

C. F. Boyle

TABLE A
Survey of Holes Drilled
Mar. April & May, 1955

DMRA
Project No. 2057
Contract No. [illegible]

| | Depth | Radioactivity |
|---|---|---|
| 28 | 90 | None |
| 29 | 114 | " |
| 30 | 175 | See Table B |
| 31 | 175 | None |
| 32 | 200 | " |
| 33 | 84 | " |
| 34 | 114 | " |
| 35 | 160 | " |
| 36 | 109 | " |
| Total | 1227.0 | |

TABLE B

Probe Survey of Drill Holes

Mar, April, & May, 1955

DMSA
Docket No. 2857
Contract No. 1DM-E517

| Hole No. | Depth | Reading | Background |
|---|---|---|---|
| 30 | 2 | | |
| | to | 20/5 | 20/5 |
| | 40 | | |
| | 42 | 30/5 | 20/5 |
| | 44 | 30/5 | 20/5 |
| | 45 | 70/5 | 20/5 |
| | 45.5 | 70/4 | 20/5 |
| | 46 | 45/4 | 20/5 |
| | 47 | 38/4 | 20/5 |
| | 47.5 | 75/5 | 20/5 |
| | 48 | 50/5 | 20/5 |
| | 49 | 30/5 | 20/5 |
| | 50 | 25/5 | 20/5 |
| | 52 | 22/5 | 20/5 |
| | to | | |
| | 120 | 22/5 | 20/5 |

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

RECEIVED
JUL 22 1955

224 New Customhouse
Denver, Colorado

July 20, 1955

Memorandum

To: E. O. Binyon

From: Executive Officer, DMEA Field Team, Region III

Subject: Operator's monthly report for period March, April and May, 1955, DMEA Docket 2857 (Uranium), Contract Idm-E517, Sodak Uranium and Mining Company, Inc. (formerly Ortmayer, Sullivan, and Boyle) Fall River County, South Dakota

We regret the inconvenience to the operator by the delayed payment of the subject report but it is necessary for us to return it to you for additional information. This is the first report form for Contract Idm-E517 to be processed through this office, all prior payments having been made by DMEA Region V. Our files for prior work accomplishments and payments are rather incomplete.

DMEA fiscal office records indicate total prior payments for this contract have amounted to $11,049.17 which we believe to be correct. "Totals Previously Reported" (column 2 of Form MF 104) for the subject report lists a total of $12,387.96 - operator's figures. This amount agrees with Government "Approved Totals to Date" on the previous report for September 1954, although 90 per cent of this amount equals $11,149.16 ($100.00 different than the payments to date as shown by Fiscal office records).

On December 21, 1953 you transmitted a copy of the monthly report for September and October 1953 to the operator with the following statement, "You will note the deduction of $100.00. The remarks are self-explanatory." Our copy of the September - October 1953 report shows this deduction of $100.00 for the final report . Evidently work under the subject contract was to be terminated at this time but later it was decided to resume operations. We believe this $100.00 should now be reinstated and paid to the operator. Please revise your transmittal memorandum for the March, April and May report to recommend payment for the $100.00 withheld if we are correct as to the reason for the deduction and to the fact that reinstatement has not previously been made.

Operations under the subject contract are to be performed in accordance with Amendment No. 2, which provides for drilling under

Stages I and II with Stage I work to be performed first and with Stage II work requiring prior written approval by the Government (DMEA Field Team). Our files do not contain a copy of the above authorization; therefore we believe that only costs applicable to Stage I work are allowable at the present time. If Stage II work was authorized by personnel of the old Region V, please furnish a copy for our files.

Please submit a breakdown of the total footage reported on this and subsequent reports by Stages and Phases. Also give a resume of footage drilled to date under Phase I and II of Stage I and remaining footage as allowed by contract. This information is necessary to this office to bring our records up to date.

We note that no claim has been presented for assaying work performed although there is indication that portions of several prior holes were assayed. On the next report the operator should be requested to submit claim for these assays as allowed by Amendment No. 2 which should be supported by copies of the assay results. These assay results may have a decided bearing on the propriety of continuing work under the contract. The operator's unwillingness to submit claim at this time is not in the best interests of the Government. We believe that the Government's portion of these assay costs should be paid and then the entire program re-evaluated in view of the light the assays may shed on the probability of making a worth while discovery by continuing exploration.

We are enclosing a copy of a memorandum dated April 6, 1955 with attached Supplement No. 1 to Memorandum No. 11. Please certify Forms MF-104A in accordance with contained instructions.

Please also notify your secretary to fully assemble each copy of monthly report form before mailing to this office. Originals of Forms MF-104 and 104A with narrative report by operator are to be attached to the original of your transmittal letter, etc.

Any drill logs submitted by the operator should be retained in your office, but please mention this fact in your narrative.

W. M. Traver

Enclosure

RBB:dja

cc: Corresp. File E517
ContractFileE517
Sec. Op. Comm. (2)
Townsend
Chron

7/22/55

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

224 New Customhouse
Denver 2, Colorado

July 15, 1955

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA-2857, Contract Idm-E517 (Uranium) Ortmayer, Sullivan and Boyle (Ripsnorter and Parker Group of Claims) Fall River County, South Dakota Assignee Sodak Uranium and Mining Company, Inc.

Enclosed are the Government, Division, and Docket copies of Assignment of Contract which was forwarded for signature of the Assignee and Assignor by your letter of March 7, 1955.

Copies have been given to the Assignee and Assignor, the Finance Officer, Region III, and a copy has been retained in our file.

W. M. Traver

W. M. Traver

Enclosures

Assignment of contract
dated June 6, 1955

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

RECEIVED
JUL 18 1955

224 New Customhouse
Denver 2, Colorado

July 15, 1955

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA-2857, Contract Idm-E517 (Uranium) Ortmayer, Sullivan and Boyle (Ripsnorter and Parker Group of Claims) Fall River County, South Dakota Assignee Sodak Uranium and Mining Company, Inc.

Enclosed are the Government, Division, and Docket copies of Amendment No. 4 to the subject contract, which was prepared by your office to extend the period for completion of the project work to October 1, 1955.

Copies of the Amendment have been given to the Operator, the Finance Officer, Region III, and a copy has been retained in our files.

W. M. Traver

W. M. Traver

Encs.

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

RECEIVED JUL 18 1955

224 New Customhouse
Denver 2, Colorado

July 15, 1955

CERTIFIED MAIL

Mr. C. R. Boyle, President
Sodak Uranium and Mining Co., Inc.
Post Office Box 330
Edgemont, South Dakota

Re: Docket DMEA-2857, Contract Idm-E517 (Uranium)
Ortmayer, Sullivan and Boyle (Ripsnorter and
Parker Group of Claims) Fall River County,S.D.

Dear Mr. Boyle:

Returned herewith are the Government, Division, Docket, Finance Office and Field Team copies of proposed assignment of the subject contract to Sodak Uranium and Mining Company, Inc. Attached thereto is the original copy of my letter of June 3, 1955, transmitting the assignment of this contract to you for execution.

You have failed to affix the corporate seal to the Assignee's Acceptance, which is required for all copies.

Please affix the seal to all five copies and return immediately in order that we can transmit them to our Washington office.

Very truly yours,

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

Enclosures

WMT:bh
cc Chairman, Op. Comm. (2)
Binyon
Cuppels
Harshman
Townsend
Subject
Chron.

700

6-3-55
Cm

MAY 3 1 1955

Mr. W. H. Trover
Executive Officer
AEC Field Team, Region III
22h New Customhouse Building
Denver 2, Colorado

Re: Docket No. [illegible]-2857 (Uranium)
Contract No. Ida-5517
Cortemyer, Sullivan and
Doyle, Partners
Ripsmarter and Parker Claims, et al.
Fall River County, South Dakota

Dear Mr. Trover:

The Operator has furnished as requested, copies of the subject individual assignments of the captioned contract to Sedak Uranium and Mining Company, Inc. We are therefore enclosing the original and five copies of the combination assignment referred to in our letter of March 7, 1955, signed by the Administrator.

Please have the original and all copies of the "Assignment of Contract" executed by the parties concerned and make the usual distribution of the document.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

Enclosures

APPROVED:

J. H. Hedges

Member, Bureau of Mines

Thor H. Kiilsgaard

Member, Geological Survey

Filmcopies
5-25-55
cc to: Adm. Reading File
Operating Committee
Docket
Messrs. J. A. Crawford, Rm. 3641
T. W. Kiilsgaard, Rm. 5224
J. C. Hosted, Rm. 3210, OSA
Code 700
Mr. Knouse

6-3-55
Am

May 26, 1955

Memorandum

To: John L. Hofflund, Acting Assistant Solicitor
Defense Minerals

From: Administrator, DMEA

Subject: Abandonment Clause
Docket No. DMEA-2857 - Uranium
Ortmayer, Sullivan & Boyle
Ripsmorter and Parker groups of claims
Fall River County, South Dakota
Contract No. Ldm-8517

Reference is made to your memorandum of May 18 relating to Amendment No. 4 to the subject contract, to the undated form of Owner's Consent to Lien attached to the contract, and to Mr. Selfridge's May 25 telephone conversation with you regarding the effect the deletion of the "abandonment provision" of Article 7 of the contract would have upon the Owner's Consent to Lien.

The last paragraph of your memorandum states that the time period for the payment of royalties is not extended in Amendment No. 4 because to do so would jeopardize the royalties under the Owner's Consent to Lien. The form of lien involved explicitly mentions amendments that do not alter the provisions of repayment.

As explained to me by Mr. Selfridge, my understanding is that in your opinion deletion of the "abandonment provision" would jeopardize the royalties under the Owner's Consent to Lien just as extending the payment period would. If I am not correct in my understanding, will you please so inform me.

C. O. Mittendorf

Administrator

GCSelfridge/esf
cc to: Docket
Admr. R. File
Messrs: Johnson
Ellis
Selfridge

MAY 2 6 1955

Mr. L. M. Trevor
Executive Officer
OPSA Field Team, Region III
[illegible] New Customhouse Building
Denver [illegible], Colorado

Re: Docket No. OPSA-0057 (Uranium)
Contract No. [illegible]
Grangeon, Sullivan & Boyle, Partners
Nip Tucker and Yankee Groups of claims
Fall River County, South Dakota

Dear Mr. Trevor:

There are enclosed, as requested in your telegram of May [illegible], except for the assignment, the original and five copies of Amendment No. [illegible] to the subject contract, signed by the Administrator.

Until the Operator furnishes the information requested in the Administrator's letter of April 18, the assignment referred to in the Operating Committee's letter to you of March 7 will be retained here. The enclosed documents concerning this project refers only to the capitalized Operator.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

Enclosures

APPROVED:

J. H. Hedges

Member, Bureau of Mines

Thor H. Kiilsgaard

Member, Geological Survey

FLKnouse/ela
5-20-55
cc to: Adm.'s Reading File
Operating Committee
Docket
Messrs. J. E. Crawford, Rm. 3641
T. H. Kiilsgaard, Rm. 5228
J.O. Rested, Rm. 3910, OPSA
Code 700
Mr. Knouse

P.S. The Operator has now complied with our request of April 18, 1955, and we shall send the assignment of contract as soon as Legal reviews the submitted agreements.

5/19/55 glm

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

MAY 18 1955.

Memorandum

To: The Administrator, DMEA

Attention: 1. Mr. E. W. Ellis
2. Mr. J. L. Chambers

From: Acting Assistant Solicitor, Defense Minerals

Subject: Boyle, Ortmayer & Sullivan, Docket No. DMEA-2857, Contract Idm-E-157 (Uranium)

Sodak Uranium & Mining Company, Inc. (no docket)

Sodak Mining Company, a partnership (no docket)

Attached hereto is Amendment No. 4 to the subject contract Idm-E157, extending the time for performance, prepared pursuant to Mr. Enouse's memorandum to me dated May 6.

Reference is also made to my letter dated May 5 to Mr. Monroe F. Pofcher in response to his of April 29 to DMEA concerning the use of some sort of bond or guarantee in lieu of an Owner's Consent to Lien in connection with a contemplated application (as I understand it) from Sodak Uranium and Mining Company, Inc.

Transmitted herewith is a letter dated May 11 from Mr. Monroe F. Pofcher to me, with attachments, in which he inquires if an application from Sodak Uranium and Mining Company, Inc., could be processed without an Owner's Consent to Lien, and presumably without any bond or guarantee in lieu thereof.

I believe this is a suitable matter for investigation and reply by Mr. Chambers.

In his letter to me of May 11, Mr. Pofcher says: "The Sodak Mining Company received a DMEA loan of $35,000 in May, 1953 . . ." This seems to be a mistaken reference to the subject contract with Boyle, Ortmayer & Sullivan. DMEA does not appear to have any contract with Sodak Mining Company, and in writing to Mr. Pofcher this erroneous statement should be corrected.

E. W. Ellis

There is in the subject docket a form for the assignment of Contract Idm-E157, Docket No. DMEA-2857, to Sodak Uranium & Mining Company, Inc., which was prepared in this office, but which for reasons unknown to us has not been used. By letter dated April 18, 1955, to Sodak Uranium and Mining Company, Inc. (in the docket file), the Acting Administrator advised that corporation that it did not seem to have a sufficient interest in the land upon which to base an application for a contract.

In spite of the fact that there is no application pending from Sodak Uranium and Mining Company, Inc., it would seem proper to me to respond to that company's request for a statement as to whether we would waive an Owner's Consent to Lien in the event it should file such an application. As indicated above, I think this is a matter for Mr. Chambers rather than for "legal."

Pursuant to conversation this day with Mr. Kneuse, the time period for the payment of royalties is not extended in Amendment No. 4 to Contract Idm-E157 because to do so would jeopardize the royalties under the Owners' Consents to Lien. In view of the fact that this is a uranium project, it is not deemed likely that the time period is of importance.

J. L. Hofflund

J. L. Hofflund
Acting Assistant Solicitor
Defense Minerals

Attachments

JLHofflund/emd

Copy to: DMEA Docket (2)
Solicitor's Docket
E. W. Ellis (2)
J. L. Chambers
J. L. Hofflund
chron.

5/17/55 gla

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

224 New Customhouse
Denver 2, Colorado

May 12, 1955

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 2857 (Uranium), Contract Idm-R517, Ortmayer, Sullivan & Boyle, Proposed Assignment of Contract to Sodak Uranium & Mining Company, Inc.

In conjunction with matter discussed in our teletype of May 5, 1955, we are enclosing four sets of data relative to the extension of the date on or before which the project is to be completed.

W. M. Traver

W. M. Traver

Enclosures

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

DMEA
Date Rec'd
MAY 12 1955
BUREAU OF MINES
Denver, Colorado

Rapid City Experiment Station
School of Mines Campus
Rapid City, South Dakota

May 10, 1955

Memorandum

To: W. M. Traver, Executive Officer, DMEA Field Team, Reg. III

From: Examining Team, Rapid City, S. Dak.

Subject: Docket DMEA 2857, Contract Idm E-517, Ortmayer, Sullivan and Boyle

Enclosed are a letter from the operator and a copy of the reply from this office, which are self-explanatory.

We received a copy of the teletype of May 5 to the Operating Committee recommending approval of the request to extend the completion date to October 1, 1955. Therefore, a recommendation by the examining team that the request be approved by your office, though unnecessary, is made as a matter of record.

N. P. Cuppels and E. O. Binyon

By: E. O. Binyon
E. O. Binyon

cc: Cuppels
Traver (2)
files

SODAK URANIUM & MINING CO., INC.

PHONE [illegible] P O BOX 330

EDGEMONT, SOUTH DAKOTA

May 5, 1955

Mr. E. O. Binyon, Mining Engineer
U. S. Bureau of Mines
Rapid City Branch
Rapid City, South Dakota

Re: Docket DMEA - 2857
Contract Idm - E517

Dear Mr. Binyon:

The above contract expires May 7, 1955.

Will you kindly inform me if this contract can be extended until October 1, 1955.

We received a Franks-Model K C-38S Rotary Drill 5-3-55 and are looking forward to some trouble-free drilling.

Yours very truly,

Sodak Uranium & Mining Co., Inc.

C. R. Boyle

C. R. Boyle

CRB:lk

Rapid City Experiment Station
School of Mines Campus
Rapid City, South Dakota

May 10, 1955

Mr. C. R. Boyle, President
Sodak Uranium and Mining Co.
P. O. Box 330
Edgemont, S. Dak.

Re: Docket DMEA-2857
Contract Idm-E517

Dear Mr. Boyle:

Your letter of May 5 inquiring as to the possibility of extending the completion date of the contract is being referred to Mr. W. M. Traver, DMEA Executive Officer, Region III, Denver, for action.

Yours very truly,

E. O. Binyon
Mining Engineer

cc: Traver (2)
files

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

DMEA
Date Rec'd
MAY 12 1955
BUREAU OF MINES
Denver, Colorado

Rapid City Experiment Station
School of Mines Campus
Rapid City, South Dakota

May 10, 1955

Memorandum

To: W. M. Traver, Executive Officer, DMEA Field Team, Reg. III

From: Examining Team, Rapid City, S. Dak.

Subject: Docket DMEA 2857, Contract Idm E-517, Ortmayer, Sullivan and Boyle

Enclosed are a letter from the operator and a copy of the reply from this office, which are self-explanatory.

We received a copy of the teletype of May 5 to the Operating Committee recommending approval of the request to extend the completion date to October 1, 1955. Therefore, a recommendation by the examining team that the request be approved by your office, though unnecessary, is made as a matter of record.

N. P. Cuppels and E. O. Binyon

By: E. O. Binyon
E. O. Binyon

cc: Cuppels
Traver (2)
files

SODAK URANIUM & MINING CO., INC.

PHONE MOhawk 2-7203 · P. O. BOX 330

EDGEMONT, SOUTH DAKOTA

MAY 9
Dept. of Interior
Bureau of Mines
Rapid City,
South Dakota

May 5, 1955

Mr. E. O. Binyon, Mining Engineer
U. S. Bureau of Mines
Rapid City Branch
Rapid City, South Dakota

Re: Docket DMEA - 2857
Contract Idm - E517

Dear Mr. Binyon:

The above contract expires May 7, 1955.

Will you kindly inform me if this contract can be extended until October 1, 1955.

5-3-55

We received a Franks-Model K C-383 Rotary Drill and are looking forward to some trouble-free drilling.

Yours very truly,

Sodak Uranium & Mining Co., Inc.

C. R. Boyle

CRB:lk

Rapid City Experiment Station
School of Mines Campus
Rapid City, South Dakota

May 10, 1955

Mr. C. R. Boyle, President
Sodak Uranium and Mining Co.
P. O. Box 330
Edgemont, S. Dak.

Re: Docket DMEA-2857
Contract Idm-E517

Dear Mr. Boyle:

Your letter of May 5 inquiring as to the possibility of extending the completion date of the contract is being referred to Mr. W. M. Traver, DMEA Executive Officer, Region III, Denver, for action.

Yours very truly,

E. O. Binyon
Mining Engineer

cc: Traver (2)
files

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

DMEA
Date Rec'd.
MAY 12 1955
BUREAU OF MINES
Denver, Colorado

Rapid City Experiment Station
School of Mines Campus
Rapid City, South Dakota

May 10, 1955

Memorandum

To: W. M. Traver, Executive Officer, DMEA Field Team, Reg. III

From: Examining Team, Rapid City, S. Dak.

Subject: Docket DMEA 2857, Contract Idm E-517, Ortmayer, Sullivan and Boyle

Enclosed are a letter from the operator and a copy of the reply from this office, which are self-explanatory.

We received a copy of the teletype of May 5 to the Operating Committee recommending approval of the request to extend the completion date to October 1, 1955. Therefore, a recommendation by the examining team that the request be approved by your office, though unnecessary, is made as a matter of record.

N. P. Cuppels and E. O. Binyon

By: E. O. Binyon
E. O. Binyon

cc: Cuppels
Traver (2)
files

SODAK URANIUM & MINING CO., INC.

[illegible] P O B [illegible] 337

EDGEMONT SOUTH DAKOTA

May 5, 1955

MAY 9
Dept. of Interior
Bureau of Mines
Rapid City,
South Dakota

Mr. E. O. Binyon, Mining Engineer
U. S. Bureau of Mines
Rapid City Branch
Rapid City, South Dakota

Re: Docket DMEA - 2057
Contract Idm - E517

Dear Mr. Binyon:

The above contract expires May 7, 1955.

Will you kindly inform me if this contract can be extended until October 1, 1955.

We received a Franks-Model K C-38S Rotary Drill 5-9-55 and are looking forward to some trouble-free drilling.

Yours very truly,

Sodak Uranium & Mining Co., Inc.

C. R. Boyle

C. R. Boyle

CRB:lk

Rapid City Experiment Station
School of Mines Campus
Rapid City, South Dakota

May 10, 1955

Mr. C. R. Boyle, President
Sodak Uranium and Mining Co.
P. O. Box 330
Edgemont, S. Dak.

Re: Docket DMEA-2857
Contract Idm-E517

Dear Mr. Boyle:

Your letter of May 5 inquiring as to the possibility of extending the completion date of the contract is being referred to Mr. W. M. Traver, DMEA Executive Officer, Region III, Denver, for action.

Yours very truly,

E. O. Binyon
Mining Engineer

cc: Traver (2)
files

Memorandum

To: Acting Assistant Solicitor, DMEA

From: F. L. Knouse, Mining Engineer
Rare and Miscellaneous Metals Division

Subject: Docket No. DMEA-2857 (Uranium)
Contract No. Idm-E517
Ortmayer, Sullivan and Boyle
Amendment No. 4

Please draft Amendment No. 4 to the subject contract to extend the completion date until October 1, 1955, at no additional cost to the Government.

The time for repayment of the Government's participation should also be extended to 12 years from the date of the contract.

F. L. Knouse

F L Knouse:am
5-6-55
cc to: Docket
Code 700
Mr. Knouse

(Undated at top)

Memorandum

To: Acting Assistant Solicitor, DMEA

From: F. L. Knouse, Mining Engineer
Rare and Miscellaneous Metals Division

Subject: Docket No. DMEA-2857 (Uranium)
Contract No. Idm-E517
Ortmayer, Sullivan and Boyle
Amendment No. 4

Please draft Amendment No. 4 to the subject contract to extend the completion date until October 1, 1955, at no additional cost to the Government.

The time for repayment of the Government's participation should also be extended to 12 years from the date of the contract.

F. L. Knouse

FLKnouse:am
5-6-55
cc to: Docket
Code 700
Mr. Knouse

c
o
p
y

5/6/55 gfa

COPY

DN 235 BUR MINES 5-5-55 4-13 PM

CHAIRMAN, OPERATING COMMITTEE, DMEA

RE DOCKET DMEA 2857, CONTRACT IDM-E517, ORTMAYER, SULLIVAN AND BOYLE, PROPOSED ASSIGNMENT OF CONTRACT TO SODAK MINING COMPANY. CONTRACT EXPIRES MAY 7. OPERATOR REQUEST EXTENSION TO OCTOBER 1, 1955. RECOMMEND THAT AMENDMENT BE PREPARED IN CONJUNCTION WITH ASSIGNMENT. DATA RELATIVE TO EXTENSION WILL BE FORWARDED LATER.

W M TRAVER

TELETYPE

UNITED STATES
DEPARTMENT OF THE INTERIOR 140
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

APR 1 8 1955

Mr. C. R. Boyle, President
Sodak Uranium & Mining Co., Inc.
Edgemont, South Dakota

Re: Docket No. DMEA-2357
Contract 1am-5517
Ortmayer, Sullivan & Boyle
Fall River County, South Dakota

Dear Mr. Boyle:

Mr. Crever transmitted to us your letter to him dated March 25, and the two attachments thereto purporting to assign to your company, Sodak Uranium & Mining Co., Inc., the interests in three leases which are the subject of the above-identified exploration project contract.

Our interest in the matter is to determine whether your company, as the proposed assignee of the exploration project contract, has a sufficient interest in the land for the purposes of the contract, and we are not clear that it has from the evidence submitted to us.

In connection with the original application for the exploration project contract, there were submitted to us copies of three leases, with Sullivan, Boyle, and Ortmayer, as individuals, named as lessees in each lease. Therefore, there should be some evidence that these three individuals have assigned their individual interests in the leases to the Sodak Uranium & Mining Co., Inc. Instead, you have submitted evidence only that (by an instrument dated August 14, 1953), Sullivan and Burwell have assigned all their interests (12½%) in assets (whatever they may be) of the Sodak Mining Company, a partnership, made up of Sullivan, C. R. Boyle, and Ortmayer Mining Company, a corporation; and that the Sodak Mining Company, partnership, has assigned all its assets to the proposed assignee (by an instrument dated November 15, 1954). As far as we can determine the individuals Ortmayer and Boyle have not assigned their individual interests to the proposed assignee, and we should, therefore, be furnished with evidence of such transfer.

Sincerely yours,

Frank E. Johnson

ACTING Administrator

Pending
J. L. Hoffland
Field Team, Region III (2)
M. C. Rubin
Chron. File

Operating Committee
C. E. Killeagerd, OS
J. L. Crawford, [illegible]
R. E. Ellis

Docket
Docket
[illegible] R. File

Copy

4/4/55 gla

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

224 New Customhouse
Denver 2, Colorado

March 31, 1955

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 2857 (Uranium), Contract Idm-E517, Ortmayer, Sullivan and Boyle, Ripsnorter and Parker Group of Claims, Fall River County, South Dakota

In conjunction with matter discussed in your letter of March 7 and teletype of March 17, 1955, we are enclosing a photostat copy of assignment agreement between Ortmayer Mining Company and Sodak Mining Company, and an agreement of assignment of interest in mining partnership by Blair Burwell and R.G. Sullivan. We are also enclosing the original of the letter by which the foregoing documents were forwarded to this office.

W. M. Traver

W. M. Traver

Enclosures

Attached documents to Legal for review with Docket which has assignment prepared.

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

224 New Customhouse
Denver 2, Colorado

March 21, 1955

Memorandum

To: E. A. Christensen

From: Executive Officer, DMEA Field Team, Region III

Subject: Royalty Payment - Ortmayer, Sullivan & Boyle (Uranium), Contract Idm-E517, Docket DMEA 2857 - South Dakota

Enclosed is Sodak Uranium & Mining Co., Inc. check No. 3114 in the amount of $834.64 in payment of royalty due on ore shipped by Ortmayer, Sullivan & Boyle to Colorado Plateau Uranium Ore Project. Settlement sheets covering the shipments of ore under this payment were forwarded to your office on February 18, 1955.

W. M. Traver

Enclosure

M

Copy to: Sec. Opr. Comm. (2)
E. O. Binyon w/copy of letter from C. R. Boyle
Royalty File E517
Chron

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

[illegible]

[illegible] Custom House
Denver 2, Colorado

March 24, 1955

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region III

Subject: Royalty Payment - Ortmayer, Sullivan & Boyle (Uranium), Contract Idm-2517, Docket DMEA 2857 - South Dakota

Enclosed is Sodak Uranium & Mining Co., Inc. check No. 3114 in the amount of $834.64 in payment of royalty due on ore shipped by Ortmayer, Sullivan & Boyle to Colorado Plateau Uranium Ore Project. Settlement sheets covering the shipments of ore under this payment were forwarded to your office on February 18, 1955.

W. M. Traver

Enclosure

ld

Copy to: Sec. Spr. Comm. (2)
E. O. Binyon w/copy of letter from C. R. Boyle
Royalty File 2517
Chron

MAR 1[illegible] 1955

Department of the Interior

DMA

M/A/OR(OR) Operating Fund, Office
Trust on Tex, Interior
(Allocated Working Fund to the Office
of the Secy.)

**[illegible]**

[illegible] M. THAYER, EXECUTIVE OFFICER
DMA FIELD TEAM, REGION III
[illegible] NEW CUSTOMHOUSE BUILDING
DENVER 2, COLORADO

REPORT MADE BY DMA-0357 OPERATOR, SULLIVAN, DYLE, OCEAN MARCH 7

REQUESTED INFORMATION IS WELL REQUIRED FOR REVIEW BEFORE THE NATIONAL

[illegible] TO BE PREPARED.

George C. Selfridge

GEORGE C. SELFRIDGE
CHAIRMAN, OPERATING COMMITTEE

FLKnouse/gla
3-16-55
cc to: Admr.'s Reading File
Operating Committee
Docket
Messrs. J. E. Crawford, Rm. 3641
T.H.Killgard, Rm. 5224
J.D.Horton, Rm. 3210, DMA
Code 700
Mr. Knouse
Confirmation to DMA FT, Reg. III

SENT
[illegible]
Mailing Service Section

3/16/55 gla

C
O
P
Y

TELETYPE

DN 235 BUR MINES 3-15-55 3-51 PM

CHAIRMAN, OPERATING COMMITTEE, DMEA

REFERENCE DOCKET DMEA 2857, CONTRACT IDM-E-517, C. G. ORTMAYER, R. G. SULLIVAN, AND C R BOYLE, YOUR MEMO OF MARCH 7, 1955. THE FORM REFERRED TO IN THE LAST PARAGRAPH OF HOFFLUNDS MEMORANDUM WAS NOT INCLUDED AND MATERIAL FORWARDED TO US. PLEASE TELETYPE ADVICE.

W M TRAVER

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

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

Re: Docket No. DMEA-2057 (Uranium)
Contract No. [illegible]-517
G. G. Ortmayer, E. C. Sullivan,
and C. H. Boyle, partners
Rip Snorter and Parker Groups of Claims
Fall River County, South Dakota

Dear Mr. Traver:

This is in response to your memorandum dated February 10, 1955, concerning the proposed assignment of the subject contract to the Sedak Uranium and Mining Company, Inc.

There are enclosed two copies of a memorandum dated March 2, 1955, from the Acting Assistant Solicitor, which is self-explanatory. Please obtain the requested information and forward it to us.

We will retain the combination assignment, referred to in the above memorandum, until the requested information is received and reviewed.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

Enclosures

Approved:

J. H. Hedges

Member, Bureau of Mines

E. L. Newcomb

Member, Geological Survey

FLKnouse/gla
3-4-55
cc to: Admr.'s Reading File
Operating Committee
Docket
Messrs. J. E. Crawford, Rm. 3641
T. M. Killingsgard, Rm. 5224
J. O. Horsed, Rm. 3210, GPA
Code 700
Mr. Knouse

3/3/55-gla

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

MAR - 2 1955

Memorandum

To: The Administrator, DMEA
Attention: E. W. Ellis

From: Acting Assistant Solicitor, Defense Minerals

Subject: Docket No. DMEA-2857 (Uranium), Contract No. Idm-E517, Ortmayer, Sullivan and Boyle, Partners, Rip Snorter and Parker Groups of claims, Fall River County, South Dakota

Pursuant to the request in Mr. Knouse's memorandum dated February 23 we have prepared the attached combination assignment form.

Prior to the Government consenting to the assignment, the Operator should furnish for review by the Government a copy of the instrument assigning the Operator's leasehold interests in the land to the Sodak Uranium and Mining Company, Inc., and a copy of the prior assignment by N. G. Sullivan to his two partners.

The assignment by Sullivan was, in part, in the nature of an assignment of an interest in the contract, requiring the consent of the Government. Accordingly, his signature as an assignor is required on the attached form which we have prepared, along with the signatures of the other two partners.

J. L. Hofflund

J. L. Hofflund
Acting Assistant Solicitor,
Defense Minerals

HCRubin:gjb
Copy to: DMEA Docket
Sol. Docket
E. W. Ellis
H. C. Rubin
J. L. Hofflund
Chron. File

February 23, 1955

Memorandum

To: Acting Assistant Solicitor, DMEA

From: F. L. Knouse, Mining Engineer
Rare and Miscellaneous Metals Division

Subject: Docket No. DMEA-2857 (Uranium)
Contract No. Ida-2517
Grimmer, Sullivan and Boyle, Partners
Rip Snorter and Parker Groups of claims
Fall River County, South Dakota

Referring to Mr. Traver's memorandum of February 10, 1955, to the Chairman of the Operating Committee, and enclosures, it is requested that you prepare the necessary documents to effect an assignment of the subject contract to the Sedak Uranium and Mining Company, Inc. Mr. Rubin and I discussed this by telephone on Friday, February 18.

/s/ F. L. Knouse

F. L. Knouse

FLKnouse/gla
cc to: Docket
Code 700 contract file
Mr. Knouse

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

224 New Customhouse
Denver 2, Colorado

February 21, 1955

Mr. C. R. Boyle, Manager
Ortmayer, Sullivan & Boyle
P. O. Box 330
Edgemont, South Dakota

Re: Royalty payments, DMEA Docket 2857 (Uranium), Contract No. Idm-E517, Ortmayer, Sullivan and Boyle

Dear Mr. Boyle:

We are returning herewith your copies of settlement sheets for ore shipments under DMEA Contract Idm-E517. We have duplicated a sufficient number of copies for our needs and have calculated total royalties due as $485.09. Total royalties due on the A.E.C. Production Bonus is $349.55 as shown on the enclosed copy of our calculation sheet.

Please make your check in the full amount of $834.64 payable to the Defense Minerals Exploration Administration and send it to the Executive Officer, DMEA Field Team, Region III, Room 224 New Customhouse, Denver 2, Colorado.

Yours very truly,

W. M. TRAVER

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

Enclosures

RDB:ld

Copy to: Det. Spr. Comm. (2) w/copy calculation sheet
P. O. Bingon w/copy calculation sheet
L. F. Cupples
A. D. Berkenkotter
Royalty File E517
Chron

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

224 New Customhouse
Denver 2, Colorado

February 21, 1955

Mr. C. R. Boyle, Manager
Ortmayer, Sullivan & Boyle
P. O. Box 330
Edgemont, South Dakota

Re: Royalty payments, DMEA Docket 2557 (Uranium), Contract No. Idm-2517, Ortmayer, Sullivan and Boyle

Dear Mr. Boyle:

We are returning herewith your copies of settlement sheets for ore shipments under DMEA Contract Idm-2517. We have duplicated a sufficient number of copies for our needs and have calculated total royalties due as $485.09. Total royalties due on the A.E.C. Production Bonus is $349.55 as shown on the enclosed copy of our calculation sheet.

Please make your check in the full amount of $834.64 payable to the Defense Minerals Exploration Administration and send it to the Executive Officer, DMEA Field Team, Region III, Room 224 New Customhouse, Denver 2, Colorado.

Yours very truly,

W. M. TRAVER

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

Enclosures

[illegible]

Copy to: Res. Opr. Comm. (2) w/copy calculation sheet
[illegible] Elkyon w/copy calculation sheet
[illegible] Supplee
[illegible] Kernenkotter
Royalty File 2517
Chron

Settlement Sheet Calculations (Uranium) Sheet No. 1

Ottmayer, Sullivan + Boyle E517

| Liq. No | Smelter Value | Allowable Deductions | Net Value | Tons | Value Per Ton | Royalty Rate | Royalty Due | Royalty Paid | Bonus Payment | Bonus Royalty Due | Bonus Royalty Paid |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4245 | 577.55 | — | 577.55 | 19.994 | 28.89 | 5.0% | 28.88 | | 419.86 | 20.99 | |
| 4246 | 786.07 | - | 786.07 | 29.275 | 26.85 | 5.0% | 39.30 | | 573.79 | 28.69 | |
| 4247 | 505.67 | - | 505.67 | 22.543 | 22.43 | 5.0% | 25.28 | | 378.71 | 18.94 | |
| 4248 | 1166.30 | — | 1166.30 | 30.199 | 38.62 | 5.0% | 58.32 | | 845.56 | 42.28 | |
| 4249 | 906.53 | - | 906.53 | 28.744 | 31.53 | 5.0% Incl. Bonus | 45.33 | | 663.98 | 33.20 | |
| 4250 | 231.32 | — | 231.32 | 20.430 | 18.82 | 5.0% | 11.57 | | 153.23 | 7.66 | |
| 4251 | 589.03 | - | 589.03 | 29.891 | 19.71 | 5.0% Incl. Bonus | 29.45 | | 439.40 | 21.97 | |
| 4252 | 242.08 | — | 242.08 | 30.668 | 12.45 | 5.0% Incl. Bonus | 12.10 | | 139.84 | 6.99 | |
| 4253 | 336.34 | — | 336.34 | 30.041 | 18.70 | 5.0% | 16.82 | | 226.30 | 11.27 | |
| 4263 | 759.99 | - | 759.99 | 30.834 | 24.65 | 5.0% | 38.00 | | 568.18 | 28.06 | |
| 4264 | 460.85 | — | 460.85 | 29.546 | 15.60 | 5.0% Incl. Bonus | 23.04 | | 329.98 | 16.49 | |
| 4281 | 338.14 | - | 338.14 | 29.720 | 18.86 | 5.0% | 16.91 | | 222.50 | 11.13 | |
| 4282 | 368.37 | - | 368.37 | 29.786 | 12.37 | 5.0% | 18.42 | | 257.35 | 12.87 | |
| 4283 | 509.82 | — | 509.82 | 30.429 | 16.75 | 5.0% Incl. Bonus | 25.49 | | 381.57 | 19.08 | |
| 4284 | 350.46 | - | 350.46 | 30.942 | 16.63 | 5.0% | 17.52 | | 232.22 | 11.61 | |
| 4290 | 591.93 | - | 591.93 | 30.511 | 19.40 | 5.0% | 29.60 | | 448.50 | 22.43 | |
| 4291 | 254.87 | - | 254.87 | 16.489 | 15.46 | 5.0% | 12.74 | | 184.02 | 9.20 | |

Settlement Sheet Calculations (Uranium) Sheet No. 2

Ortmayer, Sullivan & Boyle E517

| Lig No. | Smelter Value | Allowable Deductions | Net Value | Tons | Value Per Ton | Royalty Rate | Royalty Due | Royalty Paid | Bonus Payment | Bonus Royalty Due | Bonus Royalty Paid |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4362 | 726.33 | — | 726.33 | 23.653 | 30.71 | 5.0% | 36.32 | | 529.82 | 26.49 | |
| | | | | | | | 45[illegible].19 | | | 349.55 | |

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

224 New Customhouse
Denver 2, Colorado

February 18, 1955

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region III

Subject: Settlement Sheets - Ortmayer, Sullivan & Boyle (Uranium), Contract Idm-E517, Docket DMEA 2857 - South Dakota

Enclosed are settlement sheets covering shipments of ore by Ortmayer, Sullivan & Boyle to Colorado Plateau Uranium Ore Project as follows:

| Liquidation No. | Liquidation No. | Liquidation No. |
|---|---|---|
| 4245 | 4251 | 4282 |
| 4246 | 4252 | 4283 |
| 4247 | 4253 | 4284 |
| 4248 | 4263 | 4290 |
| 4249 | 4264 | 4291 |
| 4250 | 4281 | 4362 |

Payment of royalties due on the above shipments of ore is being requested from the operator.

W. M. TRAVER

W. M. Traver

Enclosures

Copy to: Sec. Spr. Com. (-) w/settlement sheets
E. A. Bingon w/settlement sheets
Royalty File E517
Chron

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

Off. New Customhouse
Denver 2, Colorado

February 28, 1955

Memorandum

To: R. A. Christensen

From: Executive Officer, DMEA Field Team, Region III

Subject: Settlement Sheets - Ortmayer, Sullivan & Boyle (Uranium), Contract IdR-3517, Docket DMEA 2357 - South Dakota

Enclosed are settlement sheets covering shipments of ore by Ortmayer, Sullivan & Boyle to Colorado Plateau Uranium Ore Project as follows:

| Liquidation No. | Liquidation No. | Liquidation No. |
|---|---|---|
| 4245 | 4251 | 4282 |
| 4246 | 4252 | 4283 |
| 4247 | 4253 | 4284 |
| 4248 | 4263 | 4290 |
| 4249 | 4264 | 4291 |
| 4250 | 4281 | 4302 |

Payment of royalties due on the above shipments of ore is being requested from the operator.

W. M. TRAVER

W. M. Traver

Enclosures

24

Copy to: Asst. Opr. Mgr. ( ) w/settlement sheets
E. D. Bilyeu w/settlement sheets
Royalty File 3517

Form No. 4 12-52-10M

# COLORADO PLATEAU URANIUM ORE PROJECT

[illegible]rican Smelting and Refining Company, Ore Pur[illegible]ng Agent For
United States Atomic Energy Commis[illegible]

Receiving Station [illegible] Grand Junction, Colorado [illegible] 19[illegible]
Liquidation No. [illegible] Lot No. [illegible] Shippers Lot No. [illegible]
Bought of Clyde Boyle A.E.C. License No. [illegible]
Address c/o C. L. Brown, P. O. Box [illegible], [illegible], South Dakota
Type of Ore Carnotite - Contract No. 97-T Date Received [illegible]
Mining Claim Cynad #1 Mining District [illegible] Pile No. [illegible]

| Lot No. | Wet Weight Pounds | $H_2O$ | Dry Weight Pounds | SETTLEMENT ASSAYS $U_3O_8$ | $V_2O_5$ | $CaCO_3$ | CONTENTS POUNDS $U_3O_8$ | $V_2O_5$ | $CaCO_3$ |
|---|---|---|---|---|---|---|---|---|---|
| [illegible] | [illegible] | 8.08 | 39987 | .30 | .42 | .6 | 119.96 | 167.95 | 239.92 |

| | Per Lb. | Per Ton | Short Tons | Total Value |
|---|---|---|---|---|
| **U3O8** | | | | |
| .30% = 6.0# at | $3.50 | $21.00 | 19.9935 | $419.86 |
| Development allowance 6.0# at | .50 | 3.00 | " | 59.98 |
| Premium in excess of 4# per ton 2.0# (6.0# - 4# = 2.0#) at | .75 | 1.50 | " | 29.99 |
| TOTAL U3O8 PAYMENT | | $25.50 | 19.9935 | $509.83 |
| Haulage allowance 12 miles @ 6¢ per wet ton mile | | | 21.990 | 15.84 |
| TOTAL | | | | $525.67 |
| **V2O5** | | | | |
| .42% = 8.4 lbs. at | .31 | 2.604 | 19.9935 | 52.06 |
| TOTAL GROSS PRICE | | | | $577.73 |
| Deductions | | | | --- |
| NET PROCEEDS | | | | $577.73 |

Contract WPP
Checked HER
Approved HDJ

Paid August 21, 1953
Vo. No. 8/182
Check No. 97[illegible]

mlr

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

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

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

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

Seller or Agent.

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

8519

Form No. 4 12-52-10M

# COLORADO PLATEAU URANIUM ORE PROJECT

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

Receiving Station Edgemont, South Dakota — Grand Junction, Colorado August 21 1953

Liquidation No. 4246 — Lot No. 444 — Shippers Lot No. CT-2

Bought of Clyde Doyle — A.E.C. License No. F-1181

Address c/o C. L. Brunner, P. O. Box 746, Edgemont, South Dakota

Type of Ore Carnotite - Contract No. 97-T — Date Received 8/4-6/53

Mining Claim Gyrad #1 — Mining District Edgemont — Pile No. 1

| Lot No. | Wet Weight Pounds | $H_2O$ | Dry Weight Pounds | SETTLEMENT ASSAYS $U_3O_8$ | $V_2O_5$ | $CaCO_3$ | CONTENTS POUNDS $U_3O_8$ | $V_2O_5$ | $CaCO_3$ |
|---|---|---|---|---|---|---|---|---|---|
| 444 | 68730 | 6.66 | 58550 | .28 | .40 | .6 | 163.94 | 234.20 | 351.30 |

| $U_3O_8$ | Per Lb. | Per Ton | Short Tons | Total Value |
|---|---|---|---|---|
| .28% = 5.6# at | $3.50 | $19.60 | 29.275 | 573.79 [illegible] |
| Development allowance 5.6# at | .50 | 2.80 | " | 81.97 |
| Premium in excess of 4# per ton 1.6# (5.6# - 4# = 1.6#) at | .75 | 1.20 | " | 35.11 |
| TOTAL $U_3O_8$ PAYMENT | | $23.60 | 29.275 | $690.89 |
| Haulage allowance 12 miles @ 6¢ per wet ton mile | | | 11.365 | 22.73 |
| TOTAL | | | | $713.47 |

| $V_2O_5$ | | | | |
|---|---|---|---|---|
| .40% = 8.0 lbs. at | .31 | 2.480 | 29.275 | 72.60 |
| TOTAL GROSS PRICE | | | | $786.07 |
| Deductions | | | | - - - |
| NET PROCEEDS | | | | $786.07 |

Correct WPT
Checked HER
Approved HCJ

Paid August 21, 1953
Vo. No. 8/122
Check No. 9778

air

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

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

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

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

Seller or Agent.

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

E517

Form No. 4 12-52-10M

# COLORADO PLATEAU URANIUM ORE PROJECT

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

Receiving Station: Edgemont, South Dakota — Grand Junction, Colorado: August 21, 19[illegible]

Liquidation No.: 4247 — Lot No.: 446 — Shippers Lot No.: [illegible]

Bought of: Clyde Boyle — A.E.C. License No.: [illegible]

Address: c/o C. L. Bryner, P. O. Box 746, Edgemont, South Dakota

Type of Ore: Carnotite - Contract N. 97-[illegible] — Date Received: 8/4/53

Mining Claim: Cyrad #1 — Mining District: Edgemont — Pile No.: 1

| Lot No. | Wet Weight Pounds | $H_2O$ | Dry Weight Pounds | SETTLEMENT ASSAYS $U_3O_8$ | $V_2O_5$ | $CaCO_3$ | CONTENTS POUNDS $U_3O_8$ | $V_2O_5$ | $CaCO_3$ |
|---|---|---|---|---|---|---|---|---|---|
| 446 | 4830 | 6.73 | 4505 | .24 | .30 | .60 | 108.09 | 135.26 | 270.[illegible] |

| U3O8 | Per lb. | Per Ton | Short Tons | Total Value |
|---|---|---|---|---|
| .24% - 4.8# at | $3.50 | $16.80 | 22.5425 | $378.72 |
| Development allowance 4.8# at | .50 | 2.40 | | 54.10 |
| Premium in excess of 4# per ton .8# (4.8# - 4# = .8#) at | .75 | .60 | " | 13.53 |
| TOTAL U3O8 PAYMENT | | $19.80 | 22.5425 | $446.35 |
| Haulage allowance 12 miles @ 6¢ per wet ton mile | | | 24.170 | 17.10 |
| TOTAL | | | | $463.74 |
| V2O5 | | | | |
| .30% = 6.0 lbs. at | .31 | 1.86 | 22.5425 | 41.93 |
| TOTAL GROSS PRICE | | | | $505.67 |
| Deductions | | | | - - - |
| NET PROCEEDS | | | | $505.67 |

Contract [illegible]
Checked [illegible]
Approved [illegible]

Paid August 21, 1953
Ck. No. 8/122
Check No. 9778

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

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

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

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

[illegible]

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

6517

Form No. 4 12-52-10M

# COLORADO PLATEAU URANIUM ORE PROJECT

A[redacted]can Smelting and Refining Company, Ore Purch[redacted] Agent For
United States Atomic Energy Commission

Receiving Station [redacted] Grand Junction, Colorado [redacted] 19[redacted]
Liquidation No. [redacted] Lot No. [redacted] Shippers Lot No. [redacted]
Bought of [redacted] A.E.C. License No. [redacted]
Address [redacted]
Type of Ore [redacted] Date Received [redacted]
Mining Claim [redacted] Mining District [redacted] Pile No. [redacted]

| Lot No. | Wet Weight Pounds | $H_2O$ | Dry Weight Pounds | SETTLEMENT ASSAYS $U_3O_8$ | $V_2O_5$ | $CaCO_3$ | CONTENTS POUNDS $U_3O_8$ | $V_2O_5$ | $CaCO_3$ |
|---|---|---|---|---|---|---|---|---|---|
| 447 | 64500 | 6.36 | 60397 | .40 | .46 | .6 | 241.59 | 277.83 | 362.38 |

| $U_3O_8$ | Per Lb. | Per Ton | Short Tons | Total Value |
|---|---|---|---|---|
| .45% - 8.0# at | $3.50 | $28.00 | 30.1985 | $845.56 |
| Development allowance 8.0# at | .50 | 4.00 | " | 120.79 |
| Premium in excess of 4# per ton 4.0# (8.0# - 4# = 4.0#) at | .75 | 3.00 | " | 90.59 |
| TOTAL $U_3O_8$ PAYMENT | | $35.00 | 30.1985 | $1,056.95 |
| Haulage allowance 12 miles @ 6¢ per wet ton mile | | | 32.290 | 23.22 |
| TOTAL | | | | $1,080.17 |
| $V_2O_5$ | | | | |
| .46% - 9.2 lbs. at | .11 | 2.852 | 30.1985 | 86.13 |
| TOTAL GROSS PRICE | | | | $1,166.30 |
| Deductions | | | | |
| NET PROCEEDS | | | | $1,166.30 |

Correct MPP
Checked HER
Approved NCJ

Paid August 21, 1953
Vo. No. 8/122
Check No. 9778

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

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

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

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

Seller or Agent.

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

E517

# COLORADO PLATEAU URANIUM ORE PROJECT

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

Receiving Station: Edgemont, South Dakota — Grand Junction, Colorado: August 21, 1953
Liquidation No.: [illegible] — Lot No.: [illegible] — Shippers Lot No.: [illegible]
Bought of: Clyde Doyle — A.E.C. License No.: [illegible]
Address: c/o G. L. Drumm, P. O. Box 746, Edgemont, South Dakota
Type of Ore: Carnotite - Contract No. 97-7 — Date Received: 8/5-6/53
Mining Claim: Cynthia #1 — Mining District: Edgemont — Pile No.: 1

| Lot No. | Wet Weight Pounds | $H_2O$ | Dry Weight Pounds | SETTLEMENT ASSAYS $U_3O_8$ | $V_2O_5$ | $CaCO_3$ | CONTENTS POUNDS $U_3O_8$ | $V_2O_5$ | $CaCO_3$ |
|---|---|---|---|---|---|---|---|---|---|
| [illegible] | [illegible] | 6.56 | [illegible] | .33 | .39 | .6 | [illegible] | [illegible] | [illegible] |

| $U_3O_8$ | Per Lb. | Per Ton | Short Tons | Total Value |
|---|---|---|---|---|
| .33% = 6.6# at | $3.50 | $23.10 | 28.7435 | $663.[illegible] |
| Development allowance 6.6# at | .50 | 3.30 | " | 94.85 |
| Premium in excess of 1# per ton 2.6# (6.6# - 1# = 2.6#) at | .75 | 1.95 | " | 56.05 |
| TOTAL $U_3O_8$ PAYMENT | | $28.35 | 28.7435 | $814.[illegible] |
| Haulage allowance 12 miles @ 6¢ per wet ton mile | | | 30.7600 | 22.15 |
| TOTAL | | | | $837.03 |

| $V_2O_5$ | | | | |
|---|---|---|---|---|
| .39% = 7.8 lbs. at | .31 | 2.418 | 28.7435 | 69.[illegible] |
| TOTAL GROSS PRICE | | | | $906.53 |
| Deductions | | | | - - - |
| NET PROCEEDS | | | | $906.53 |

Correct VPP — Paid August 21, 1953
Checked MER — Ve. No. 8/122
Approved BCW — Check No. 9788

cdr

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

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

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

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

Seller or Agent.

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

E-517

Form No. 4 12-52-10M

# COLORADO PLATEAU URANIUM ORE PROJECT

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

Receiving Station Edgemont, South Dakota — Grand Junction, Colorado August 21 19 53

Liquidation No. 4290 — Lot No. 450 — Shippers Lot No. CL-6

Bought of Clyde Boyle — A.E.C. License No. F-1182

Address c/o G. L. Brunner, P. O. Box 746, Edgemont, South Dakota

Type of Ore Carnotite - Contract No. 97-7 — Date Received 8/5/53

Mining Claim Cynad #1 — Mining District Edgemont — Pile No. 1

| Lot No. | Wet Weight Pounds | $H_2O$ | Dry Weight Pounds | SETTLEMENT ASSAYS $U_3O_8$ | $V_2O_5$ | $CaCO_3$ | CONTENTS POUNDS $U_3O_8$ | $V_2O_5$ | $CaCO_3$ |
|---|---|---|---|---|---|---|---|---|---|
| 450 | 43840 | 6.80 | 40859 | .15 | .25 | .7 | 61.29 | 102.15 | 286.01 |

| U3O8 | Per Lbs. | Per Ton | Short Tons | Total Value |
|---|---|---|---|---|
| .15% - 3.0# at | $2.50 | $7.50 | 20.4295 | $153.23 |
| Development allowance 3.0# at | .50 | 1.50 | " | 30.64 |
| TOTAL U3O8 PAYMENT | | $9.00 | 20.4295 | $183.87 |
| Haulage allowance 12 miles @ 6¢ per net ton mile | | | 21.9200 | 15.78 |
| TOTAL | | | | $199.65 |

| V2O5 | | | | |
|---|---|---|---|---|
| .25% - 5.0 lbs. at | .31 | 1.550 | 20.4295 | 31.67 |
| TOTAL GROSS PRICE | | | | $231.32 |
| Deductions | | | | - - - |
| NET PROCEEDS | | | | $231.32 |

Correct WPP — Paid August 21, 1953
Checked HEE — Vo. No. 3/122
Approved HCJ — Check No. 9778

[illegible] of the Lawful Owner, of the Ore described in this Settlement Sheet and have [illegible] above.

[illegible] and interest in and to said ore.

[illegible] for average $V_2O_5$ [illegible]

E517

Form No. 4 [illegible]

# COLORADO PLATEAU URANIUM ORE PROJECT

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

Receiving Station Edgemont, South Dakota — Grand Junction, Colorado August [illegible] 19[illegible]

Liquidation No. [illegible] — Lot No. 165 — Shippers Lot No. [illegible]

Bought of Glynn Bagle — A.E.C. License No.

Address c/o G. L. Brunner, P. O. Box 746, Edgemont, South Dakota

Type of Ore Carnotite - Contract No. 97-[illegible] — Date Received 8/6/53

Mining Claim Grand #2 — Mining District Edgemont — Pile No. 1

| Lot No. | Wet Weight Pounds | $H_2O$ | Dry Weight Pounds | SETTLEMENT ASSAYS $U_3O_8$ | $V_2O_5$ | $CaCO_3$ | CONTENTS POUNDS $U_3O_8$ | $V_2O_5$ | $CaCO_3$ |
|---|---|---|---|---|---|---|---|---|---|
| 165 | 6230 | 6.25 | 5978[illegible] | .21 | .32 | .5 | 125.5[illegible] | 191.30 | 298.9[illegible] |

| [illegible] | Per Lb. | Per Ton | Short Tons | Total Value |
|---|---|---|---|---|
| .215 - 4.2% at | $3.50 | $14.70 | 29.891 | $439.40 |
| Development allowance 4.2% at | .50 | 2.10 | " | 62.77 |
| Premium in excess of 4% per ton .2% (4.2% - 4% = .2%) at | .75 | .150 | " | [illegible] |
| TOTAL $U_3O_8$ PAYMENT | | $16.950 | 29.891 | $506.6[illegible] |
| Haulage allowance 12 miles @ 6¢ per wet ton mile | | | 32.055 | 23.0[illegible] |
| TOTAL [illegible] | | | | $529.73 |
| [illegible] | | | | |
| .32% - 6.4 lbs. at | .31 | 1.98[illegible] | 29.891 | 59.3[illegible] |
| TOTAL GROSS PRICE | | | | $589.[illegible] |
| Deductions | | | | |
| NET PROCEEDS | | | | $589.03 |

Correct WPP — Paid August 21, 1953
Checked HER — Vo. No. 8/182
Approved HOJ — Check No. 97[illegible]

[illegible]

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

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

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

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

Seller or Agent.

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

E519

Form No. 4 12-52-10M

# COLORADO PLATEAU URANIUM ORE PROJECT

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

Receiving Station [redacted] Grand Junction, Colorado [redacted] 19[redacted]
Liquidation No. [redacted] Lot No. [redacted] Shippers Lot No. [redacted]
Bought of [redacted] A.E.C. License No. [redacted]
Address [redacted]
Type of Ore [redacted] Date Received [redacted]
Mining Claim [redacted] Mining District [redacted] Pile No. [redacted]

| Lot No. | Wet Weight Pounds | $H_2O$ | Dry Weight Pounds | SETTLEMENT ASSAYS $U_3O_8$ | $V_2O_5$ | $CaCO_3$ | CONTENTS POUNDS $U_3O_8$ | $V_2O_5$ | $CaCO_3$ |
|---|---|---|---|---|---|---|---|---|---|
| [redacted] | [redacted] | [redacted] | [redacted] | [redacted] | [redacted] | [redacted] | [redacted] | [redacted] | [redacted] |
| [redacted] | | | | [redacted] | | [redacted] | [redacted] | | [redacted] |
| [redacted] = [redacted] st | | | | [redacted] | | [redacted] | [redacted] | | [redacted] |
| Development allowance [redacted] st | | | | [redacted] | | [redacted] | | | [redacted] |
| TOTAL $U_3O_8$ PAYMENT | | | | | | [redacted] | [redacted] | | [redacted] |
| Haulage allowance [redacted] miles @ [redacted] per wet ton mile | | | | | | | [redacted] | | [redacted] |
| TOTAL | | | | | | | | | [redacted] |
| [redacted] | | | | | | | | | |
| [redacted] = [redacted] lbs. st | | | | [redacted] | | [redacted] | [redacted] | | [redacted] |
| TOTAL GROSS PRICE | | | | | | | | | [redacted] |
| Deductions | | | | | | | | | [redacted] |
| NET PROCEEDS | | | | | | | | | [redacted] |

Correct [redacted]
Checked [redacted]
Approved [redacted]

Paid August 21, 1953
Vo. No. [redacted]
Check No. [redacted]

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

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

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

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

Clyde Boyle
Seller or Agent.

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

Form No. 4 12-52-10M

# COLORADO PLATEAU URANIUM ORE PROJECT

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

Receiving Station Edgemont, South Dakota — Grand Junction, Colorado, August 21, 1953
Liquidation No. 1253 — Lot No. 459 — Shipper's Lot No. [illegible]
Bought of Clyde Boyle — A.E.C. License No. [illegible]
Address c/o C. L. Brunner, P. O. Box 746, Edgemont, South Dakota — Date Received 8/7-10/53
Type of Ore Carnotite - Contract No. 97-T
Mining Claim Grand #1 — Mining District Edgemont — File No. [illegible]

| Lot No. | Wet Weight Pounds | $H_2O$ | Dry Weight Pounds | SETTLEMENT ASSAYS $U_3O_8$ | $V_2O_5$ | $CaCO_3$ | CONTENTS POUNDS $U_3O_8$ | $V_2O_5$ | $CaCO_3$ |
|---|---|---|---|---|---|---|---|---|---|
| 459 | 64290 | 6.55 | 60081 | .15 | .23 | .9 | 90.12 | 138.19 | 540.73 |

| | Per Lb. | Per Ton | Short Tons | Total Value |
|---|---|---|---|---|
| **U3O8** | | | | |
| .15% = 3.0# at | $2.50 | $7.50 | 30.0405 | $225.30 |
| Development allowance 3.0# at | .50 | 1.50 | | 45.06 |
| TOTAL GROSS PRICE | | $9.00 | 30.0405 | $270.36 |
| Haulage allowance 12 miles @ 6¢ per wet ton mile | | | 32.145 | 23.14 |
| TOTAL | | | | $293.50 |
| **V2O5** | | | | |
| .23% = 4.6 lbs. at | .31 | 1.426 | 30.0405 | 42.84 |
| TOTAL GROSS PRICE | | | | $336.34 |
| Deductions | | | | — — — |
| NET PROCEEDS | | | | $336.34 |

Correct WPP — Paid August 21, 1953
Checked HER — Vo. No. 8/222
Approved HLJ — Chk. No. 9778

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

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

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

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

Clyde Boyle
Seller or Agent

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

8517

# COLORADO PLATEAU URANIUM ORE PROJECT

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

Receiving Station Edgemont, South Dakota — Grand Junction, Colorado August 25 19 53

Liquidation No. 4265 — Lot No. 452 — Shippers Lot No.

Bought of Clyde Boyle — A.E.C. License No. F-1181

Address c/o G. L. Frazer, P. O. Box 746, Edgemont, South Dakota

Type of Ore Carnotite - Contract No. 97-7 — Date Received 8/5-6/53

Mining Claim Cyrad #1 — Mining District Edgemont — Pile No. 1

| Lot No. | Wet Weight Pounds | $H_2O$ | Dry Weight Pounds | SETTLEMENT ASSAYS $U_3O_8$ | $V_2O_5$ | $CaCO_3$ | CONTENTS POUNDS $U_3O_8$ | $V_2O_5$ | $CaCO_3$ |
|---|---|---|---|---|---|---|---|---|---|
| 452 | 66620 | 7.43 | 61668 | .26 | .35 | 0.4 | 160.34 | 215.84 | 246.67 |

| U308 | Per Lb. | Per Ton | Short Tons | Total Value |
|---|---|---|---|---|
| .26% @ 5.2# at | $3.50 | $18.20 | 30.8340 | $561.18 |
| Development allowance 5.2# at | .50 | 2.60 | " | 80.17 |
| Premium in excess of 4# per ton 1.2# (5.2# - 4# @ 1.2#) at | .75 | .90 | " | 27.75 |
| TOTAL U308 PAYMENT | | $21.70 | 30.8340 | $669.10 |
| Haulage allowance 12 miles @ 6¢ per wet ton mile | | | 33.3100 | 23.98 |
| TOTALS | | | | $693.08 |

| V205 | | | | |
|---|---|---|---|---|
| .35% = 7.0 lbs. at | .31 | 2.170 | 30.8340 | 66.91 |
| TOTAL GROSS SELLER PRICE | | | | $759.99 |
| Deductions | | | | - - - |
| NET PROCEEDS | | | | $759.99 |

Correct HLS — Paid August 25, 1953
Checked HER — Vo. No. 8/139
Approved RCJ — Check No. 9795

eir

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

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

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

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

Seller or Agent

Buyers assays governed if Seller fails to submit his assays prior to acceptance of payment.
All [illegible] and are based on [illegible] Atomic Energy Commission Published Schedules.

8517

# COLORADO PLATEAU URANIUM ORE PROJECT

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

Receiving Station Edgemont, South Dakota — Grand Junction, Colorado August 25 1953

Liquidation No. 4254 — Lot No. 454 — Shippers Lot No.

Bought of Clyde Boyle — A.E.C. License No. P-1181

Address c/o C. L. Bruner, P. O. Box 746, Edgemont, South Dakota

Type of Ore Carnotite - Contract - Contract No. 97-T — Date Received 8/6/53

Mining Claim Cyrad #1 — Mining District Edgemont — Pile No. 1

| Lot No. | Wet Weight Pounds | $H_2O$ | Dry Weight Pounds | SETTLEMENT ASSAYS $U_3O_8$ | $V_2O_5$ | $CaCO_3$ | CONTENTS POUNDS $U_3O_8$ | $V_2O_5$ | $CaCO_3$ |
|---|---|---|---|---|---|---|---|---|---|
| 454 | 63570 | 7.05 | 59081 | .18 | .29 | 0.8 | 106.36 | 171.36 | 472.73 |

| | Per Lb. | Per Ton | Short Tons | Total Value |
|---|---|---|---|---|
| **U3O8** | | | | |
| .18% = 3.6¢ at | $3.10 | $11.16 | 29.5455 | $329.73 |
| Development allowance 3.6¢ at | .50 | 1.80 | " | 53.18 |
| TOTAL U3O8 PAYMENT | | $12.96 | 29.5455 | $382.91 |
| Haulage allowance 12 miles @ 6¢ per wet ton mile | | | 31.7850 | 22.89 |
| TOTAL | | | | $405.80 |
| **V2O5** | | | | |
| .29% = 5.8 lbs. at | .31 | 1.798 | 29.5455 | 53.12 |
| TOTAL GROSS PRICE | | | | $458.92 |
| Mileage Adjustment | | | | + 1.93 |
| Deductions | | | | - - - |
| NET PROCEEDS | | | | $460.85 |

Correct RLB
Checked LRJ
Approved RCJ

Paid August 25, 1953
Vo. No. 8/130
Check No. 9795

eir

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

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

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

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

Seller or Agent

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

6517

Form No. 4 12-29-1951

# COLORADO PLATEAU URANIUM ORE PROJECT

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

Receiving Station Edgemont, South Dakota Grand Junction, Colorado August 31 1953

Liquidation No. [illegible] Lot No. [illegible] Shippers Lot No. CX-12

Bought of Clyde Boyle A.E.C. License No. R-1181

Address c/o C. L. Bryson, P. O. Box 266, Edgemont, South Dakota

Type of Ore Carnotite - Contract No. 97-[illegible] Date Received 8/23-24/53

Mining Claim Grant #1 Mining District Edgemont Pile No. 1

| Lot No. | Wet Weight Pounds | $H_2O$ | Dry Weight Pounds | SETTLEMENT ASSAYS $U_3O_8$ | $V_2O_5$ | $CaCO_3$ | CONTENTS POUNDS $U_3O_8$ | $V_2O_5$ | $CaCO_3$ |
|---|---|---|---|---|---|---|---|---|---|
| [illegible] | 6[illegible].90 | 5.93 | 59[illegible].40 | .15 | .26 | 0.6 | 89.16 | 15[illegible].5[illegible] | 356.[illegible] |

| USE | Per Lb. | Per Ton | Short Tons | Total Value |
|---|---|---|---|---|
| .15% = 3.0# at | $2.50 | $7.50 | 29.7200 | $222.[illegible] |
| Development allowance 3.0# at | .50 | 1.50 | | [illegible] |
| TOTAL USE PAYMENT | | $9.00 | 29.7200 | $267.48 |
| Haulage allowance 12 miles @ 6¢ per wet ton mile | | | 31.5950 | [illegible] |
| TOTAL | | | | $290.23 |

| VSE | | | | |
|---|---|---|---|---|
| .26% = 5.2 lbs. at | .31 | 1.612 | 29.7200 | [illegible] |
| TOTAL GROSS PRICE | | | | $338.34 |
| Deductions | | | | — — — |
| NET PROCEEDS | | | | $338.34 |

Correct WKC
Checked IRJ
Approved IEJ

Paid August 31, 1953
Vo. No. 0/207
Check No. 9057

edr

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

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

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

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

Seller or Agent.

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

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# COLORADO PLATEAU URANIUM ORE PROJECT

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

Receiving Station Edgemont, South Dakota — Grand Junction, Colorado August 31 19 53
Liquidation No. 4282 — Lot No. 470 — Shippers Lot No. 53-23
Bought of Clyde Boyle — A.E.C. License No. R-1321
Address c/o G. L. Brewer, P. O. Box 766, Edgemont, South Dakota
Type of Ore Carnotite - Contract No. 97-R — Date Received 8/24/53
Mining Claim Grand #2 — Mining District Edgemont — Pile No. 1

| Lot No. | Wet Weight Pounds | $H_2O$ | Dry Weight Pounds | SETTLEMENT ASSAYS $U_3O_8$ | $V_2O_5$ | $CaCO_3$ | CONTENTS POUNDS $U_3O_8$ | $V_2O_5$ | $CaCO_3$ |
|---|---|---|---|---|---|---|---|---|---|
| 470 | 63240 | 5.65 | 59572 | .26 | 0.22 | 1.0 | 95.32 | 131.05 | 595.72 |

| $U_3O_8$ | Per Lb. | Per Ton | Short Tons | Total Value |
|---|---|---|---|---|
| .26% = 3.2# at | $2.70 | $8.64 | 29.7860 | $257.35 |
| Development allowance 3.2# at | .50 | 1.60 | " | 47.66 |
| TOTAL $U_3O_8$ PAYMENT | | $10.24 | 29.7860 | $305.01 |
| Haulage allowance 12 miles @ 6¢ per wet ton mile | | | 31.5700 | 22.73 |
| TOTAL | | | | $327.74 |
| **$V_2O_5$** | | | | |
| .22% = 4.4 lbs. at | .31 | 1.24 | 29.7860 | 40.63 |
| TOTAL GROSS PRICE | | | | $368.37 |
| Deductions | | | | --- |
| NET PROCEEDS | | | | $368.37 |

Correct MEC — Paid August 31, 1953
Checked LBJ — Vo. No. 8/207
Approved RCJ — Check No. 9857

ckr

I certify that I am the lawful owner or a [illegible]ed Representative of the Lawful Owner, of the Ore described in this Settlement Sheet and have legal right to deliver the same to the Co[illegible]

I certify that I hold the A. E. C. Sour[illegible]aterial License numbered above.

I hereby transfer to the Commission, [illegible]ective as of the date of delivery of the ore, all my right, title and interest in and to said [illegible]re.

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

Seller or Agent

Buyers assays govern if Seller [illegible]s to submit his assays prior to a[illegible]eptance of payment.
All rates paid are based on [illegible] S. Atomic Energy Commission Publi[illegible]ed Schedules.

E517

# COLORADO PLATEAU URANIUM ORE PROJECT

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

Receiving Station Edgemont, South Dakota Grand Junction, Colorado August 31 1953
Liquidation No. 4283 Lot No. 473 Shippers Lot No. 57-34
Bought of Clyde Boyle A.E.C. License No. R-1181
Address c/o C. L. Bergner, P. O. Box 346, Edgemont, South Dakota
Type of Ore Carnotite - Contract No. 97-5 Date Received 8/24/53
Mining Claim Grand #3 Mining District Edgemont Pile No. 1

| Lot No. | Wet Weight Pounds | $H_2O$ | Dry Weight Pounds | SETTLEMENT ASSAYS $U_3O_8$ | $V_2O_5$ | $CaCO_3$ | CONTENTS POUNDS $U_3O_8$ | $V_2O_5$ | $CaCO_3$ |
|---|---|---|---|---|---|---|---|---|---|
| 473 | 6,650 | 5.87 | 6258 | .39 | .85 | 1.2 | 115.63 | 158.15 | 750.30 |

| | Per Lb. | Per Ton | Short Tons | Total Value |
|---|---|---|---|---|
| **U308** | | | | |
| .39% = 3.87 at | $3.30 | $12.54 | 30.4290 | $381.57 |
| Development allowance 3.87 at | .90 | 1.80 | | 57.82 |
| TOTAL $U_3O_8$ PAYMENT | | $14.44 | 30.4290 | $439.39 |
| Haulage allowance 12 miles @ 6¢ per wet ton mile | | | 32.3250 | 23.27 |
| TOTAL | | | | $462.66 |
| **V205** | | | | |
| .85% = 5.0 lbs. at | .31 | 1.55 | 30.4290 | 47.16 |
| TOTAL GROSS PRICE | | | | $509.82 |
| Deductions | | | | --- |
| NET PROCEEDS | | | | $509.82 |

Correct WEC
Checked LRJ
Approved haj

Paid August 31, 1953
Vo. No. 8/207
Check No. 9857

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

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

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

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

Seller or Agent

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

E519

Form No. 4 12-52-10M

# COLORADO PLATEAU URANIUM ORE PROJECT

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

Receiving Station [illegible] Grand Junction, Colorado [illegible] 19[illegible]
Liquidation No. [illegible] Lot No. [illegible] Shippers Lot No. [illegible]
Bought of [illegible] A.E.C. License No. [illegible]
Address [illegible]
Type of Ore [illegible] Date Received [illegible]
Mining Claim [illegible] Mining District [illegible] Pile No. [illegible]

| Lot No. | Wet Weight Pounds | $H_2O$ | Dry Weight Pounds | SETTLEMENT ASSAYS $U_3O_8$ | $V_2O_5$ | $CaCO_3$ | CONTENTS POUNDS $U_3O_8$ | $V_2O_5$ | $CaCO_3$ |
|---|---|---|---|---|---|---|---|---|---|
| [illegible] | [illegible] | 6.39 | [illegible] | .15 | .25 | 0.9 | 92.89 | [illegible] | 557.32 |

| $V_2O_5$ | Per Lb. | Per Ton | Short Tons | Total Value |
|---|---|---|---|---|
| .25% = 3.0# at | $2.50 | $[illegible] | 30.9620 | $[illegible] |
| Development allowance 3.0# at | .90 | [illegible] | | [illegible] |
| TOTAL $V_2O_5$ PAYMENT | | $9.00 | 30.9620 | $278.66 |
| Haulage allowance 12 miles @ 6¢ per wet ton mile | | | 33.0750 | [illegible] |
| TOTAL | | | | $302.47 |

| $UO_3$ | | | | |
|---|---|---|---|---|
| .25% = 5.0 lbs. at | .31 | 1.55 | 30.9620 | 47.99 |
| TOTAL GROSS PRICE | | | | $350.46 |
| Deductions | | | | --- |
| NET PROCEEDS | | | | $350.46 |

Correct VKC
Checked LRJ
Approved RCJ

Paid August 31, 1953
Vo. No. 8/207
Check No. 9857

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

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

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

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

Seller or Agent.

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

8517

No. 4 [illegible]

# COLORADO PLATEAU URANIUM ORE PROJECT

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

Receiving Station [illegible], South Dakota — Grand Junction, Colorado [illegible] 1 19 [illegible]
Liquidation No. [illegible] Lot No. [illegible] Shippers Lot No. [illegible]
Bought of [illegible] A.E.C. License No. [illegible]
Address [illegible], P. O. Box [illegible], [illegible], South Dakota
Type of Ore [illegible] - Contract No. [illegible] Date Received [illegible]
Mining Claim [illegible] Mining District [illegible] Pile No. 1

| Lot No. | Wet Weight Pounds | $H_2O$ | Dry Weight Pounds | SETTLEMENT ASSAYS $U_3O_8$ | $V_2O_5$ | $CaCO_3$ | CONTENTS POUNDS $U_3O_8$ | $V_2O_5$ | $CaCO_3$ |
|---|---|---|---|---|---|---|---|---|---|
| [illegible] | [illegible] | 7.36 | [illegible] | .21 | .27 | 0.6 | [illegible] | 164.76 | [illegible] |

| [illegible] | Per lb. | Per Ton | Short Tons | Total Value |
|---|---|---|---|---|
| .21% @ 4.2¢ at | $3.50 | $14.70 | 30.5165 | $448.80 |
| Development allowance 4.2¢ at | .50 | 2.10 | " | 64.07 |
| Premium in excess of 4¢ per ton .2¢ (4.2¢ - 4¢ & .2¢) at | .75 | .15 | " | 4.58 |
| TOTAL UNCS PAYMENT | | $16.95 | 30.5165 | $517.15 |
| Haulage allowance 12 miles @ 6¢ per wet ton mile | | | 32.9300 | 21.71 |
| TOTAL | | | | $540.86 |
| [illegible] | | | | |
| .27% @ 5.4 lbs. at | .21 | 1.674 | 30.5165 | 51.07 |
| TOTAL GROSS PRICE | | | | $591.93 |
| Deductions | | | | - - - |
| NET PROCEEDS | | | | $591.93 |

Correct [illegible]
Checked [illegible]
Approved [illegible]

Paid September 3, 1953
Vo. No. 9/13
Check No. 9814

sir

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

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

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

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

Seller or Agent.

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

8519

[illegible] Purchasing Agent For
[illegible] Commission

Grand Junction, Colorado September 3 19 53

[illegible] Shippers Lot No. CT-17

[illegible] A.E.C. License No. P-1181

[illegible] P. O. Box 746, Edgemont, South Dakota

[illegible] Contract No. 27-T Date Received 8/19/53

[illegible] Mining District Edgemont Pile No. 1

| [illegible] $H_2O$ | Dry Weight Pounds | SETTLEMENT ASSAYS $U_3O_8$ | $V_2O_5$ | $CaCO_3$ | CONTENTS POUNDS $U_3O_8$ | $V_2O_5$ | $CaCO_3$ |
|---|---|---|---|---|---|---|---|
| 5.34 | 32979 | .18 | .28 | 0.2 | 59.36 | 92.34 | 65.96 |

| | Per Lb. | Per Ton | Short Tons | Total Value |
|---|---|---|---|---|
| .18% = 3.6# at | 3.10 $5.10 | $11.16 | 16.4895 | $184.02 |
| Development allowance 3.6# at | .50 | 1.80 | " | 29.68 |
| TOTAL U3O8 PAYMENT | | $12.96 | 16.4895 | $213.70 |
| Haulage allowance 12 miles @ 6¢ per wet ton mile | | | 17.4200 | 12.54 |
| TOTAL | | | | $226.24 |
| **V2O5** | | | | |
| .28% = 5.6 lbs. at | .31 | 1.736 | 16.4895 | 28.63 |
| TOTAL GROSS PRICE | | | | $254.87 |
| Deductions | | | | - - - |
| NET PROCEEDS | | | | $254.87 |

Correct MKC
Checked LRJ
Approved HCJ

Paid September 3, 1953
Vo. No. 9/13
Check No. 9914

[illegible] owner or authorized Representative of the Lawful Owner, of the Ore described in this Settlement Sheet and have [illegible] to the Commission.

[illegible] the A. E. C. Source Material License numbered above.

[illegible], effective as of the date of delivery of the ore, all my right, title and interest in and to said ore.

[illegible] the amount as shown above as "Total Gross Price" in full settlement, except for final quarterly adjustment for average $V_2O_5$ [illegible] for sums due to me on account of the ore deliveries described herein.

[illegible] Date of Agent

[illegible] of payment.
[illegible] Schedule.

8577

Form R... 1 (9-50-1021

# COLORADO PLATEAU URANIUM ORE PROJECT

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

Receiving Station: Edgemont, South Dakota — Grand Junction, Colorado: September 23, 1953

Liquidation No.: 4368 — Lot No.: 511 — Shippers Lot No.:

Bought of: Clyde Boyle — A.E.C. License No.: F-1168

Address: c/o C. L. Brunner, Edgemont, South Dakota

Type of Ore: Carnotite — Date Received: 9/4/53

Mining Claim: Cynad # 1 — Mining District: Edgemont — Pile No.: 1

| Lot No. | Wet Weight Pounds | $H_2O$ | Dry Weight Pounds | SETTLEMENT ASSAYS $U_3O_8$ | $V_2O_5$ | $CaCO_3$ | CONTENTS POUNDS $U_3O_8$ | $V_2O_5$ | $CaCO_3$ |
|---|---|---|---|---|---|---|---|---|---|
| 511 | 50300 | 6.07 | 47305 | .32 | .41 | 0.4 | 151.38 | 193.95 | 189.22 |

| [illegible] | Per Lb. | Per Ton | Short Tons | Total Value |
|---|---|---|---|---|
| [illegible] - 6.4¢ at | $3.50 | $22.40 | 23.6525 | $529.88 |
| [illegible]shipment allowance 6.4¢ at | .50 | 3.20 | " | 75.68 |
| [illegible] in excess of 4¢ per ton | | | | |
| [illegible]4¢ (6.4¢ - 4¢ = 2.4¢) at | .75 | 1.80 | " | 42.57 |
| TOTAL [illegible] PAYMENT | | $27.40 | 23.6525 | $648.08 |
| [illegible]ilage allowance 12 miles @ 6¢ per wet ton mile | | | 25.1800 | 18.13 |
| TOTAL | | | | $666.22 |
| [illegible] | | | | |
| [illegible] - 8.2 lbs. at | .32 | 2.542 | 23.6525 | 60.12 |
| TOTAL GROSS PRICE | | | | $726.33 |
| Deductions: | | | | - - - |
| NET PROCEEDS | | | | $726.33 |

Correct WEC
Checked HEJ
Approved HEJ

Paid September 23, 1953
Vo. No. 9/124
Check No. 10819

OK

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

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

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

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

Seller or Agent

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

8517

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 14 1955

224 New Customhouse
Denver 2, Colorado

February 10, 1955

Mr. C. H. Boyle
Sodak Uranium and Mining Co., Inc.
Edgemont, South Dakota

Re: Docket DMEA 2057 (Uranium)
Contract Idm-151,
Ortmayer, Sullivan & Boyle
Fall River County, South Dakota

Dear Mr. Boyle:

Reference is made to your letter of February 3, 1955 to Mr. M.O. Binyon, Rapid City, South Dakota, wherein you request advice as to the information required to receive approval from the Defense Minerals Exploration Administration for the assignment of the contract to the new operating company.

As indicated in the reply to you from Mr. Binyon, your letter was forwarded to this office for action. We have forwarded the matter to the Washington office, DMEA, for advice as to the specific documents needed in order for them to approve the assignment of the contract.

You will hear either direct from the Washington office in the matter or from this office when we have been given the information.

Very truly yours,

W. M. TRAVER

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

JWT:jp
cc Subject
Chron
Binyon
Cuppels
Harshman
Chairman, Op. Comm. (4)
Townsend

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Rapid City Experiment Station
School of Mines Campus
Rapid City, South Dakota

FEB 8 1955
DEPARTMENT OF THE INTERIOR
Bureau Mineral Administration
RECEIVED
FEB 1 4 1955

February 7, 1955

Memorandum

To: W. M. Traver, Executive Officer, DMEA Field Team, Reg. III

From: E. O. Binyon, Rapid City, S. Dak.

Subject: Docket DMEA 2857 (Uranium), Contract Idm E-517, Ortmayer-Sullivan and Boyle, Fall River County, S. Dak.

Enclosed are copies of the operator's letter and of the reply from this office.

E O Binyon
E. O. Binyon

cc: Traver (2)
files

SODAK URANIUM & MINING CO., INC.

Edgemont, South Dakota

February 2, 1955

Mr. E. O. Binyon, Mining Engineer
U. S. Bureau of Mines
School of Mines Campus
Rapid City, South Dakota

Re: Docket DMEA 2857
Contract Idm E-517

Dear Mr. Binyon:

As of November 15, 1954 the partnership of Ortmayer, Sullivan and Boyle assigned all its assets subject to liabilities to the Sodak Uranium and Mining Company, Inc., a Delaware corporation. In connection with the assignment, Mr. R. G. Sullivan has sold all of his interest in the partnership and retains no interest in the corporation.

The officers of the corporation are as follows:

| | | |
|---|---|---|
| Clyde R. Boyle | Edgemont, S. Dak. | President and Director |
| W. E. Haldane | Grand Junction, Colorado | Vice President and Director |
| Paul H. Russell | Edgemont, S. Dak. | Secretary-Treasurer and Director |
| Jack O. Jones | Grand Junction, Colorado | Director |
| C. G. Ortmayer | Grand Junction. Colorado | Chairman of the Board of Directors. |

Will you kindly inform me as to the information required to receive approval from the DMEA of the assignment.

Yours very truly,

/s/ C. R. Boyle

COPY

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 14 1955

Rapid City Experiment Station
School of Mines Campus
Rapid City, South Dakota

February 7, 1955

Mr. Clyde R. Boyle, President
Sodak Uranium and Mining Co., Inc.
Box 330
Edgemont, So. Dak.

Re: Docket DMEA 2857
Contract Idm E-517

Dear Mr. Boyle:

This is to acknowledge receipt of your letter concerning assignment of the subject contract by the partnership of Ortmayer, Sullivan and Boyle to the Sodak Uranium and Mining Co., Inc.

As those matters are handled by the Denver Office, your letter is being referred to Mr. W. M. Traver, Executive Officer, DMEA Field Team, Reg. III, and the information you have requested will be furnished from that office.

Yours very truly,

E. O. Dinyon
Mining Engineer

cc: Traver (2)
Files

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

224 New Customhouse
Denver 2, Colorado

February 10, 1955

Mr. C. R. Boyle
Sodak Uranium and Mining Co., Inc.
Edgemont, South Dakota

Re: Docket DMEA 2857 (Uranium)
Contract Idm-E517
Ortmayer, Sullivan & Boyle
Full River County, South Dakota

Dear Mr. Boyle:

Reference is made to your letter of February 3, 1955 to Mr. E.O. Binyon, Rapid City, South Dakota, wherein you request advice as to the information required to receive approval from the Defense Minerals Exploration Administration for the assignment of the contract to the new operating company.

As indicated in the reply to you from Mr. Binyon, your letter was forwarded to this office for action. We have forwarded the matter to the Washington office, DMEA, for advice as to the specific documents needed in order for them to approve the assignment of the contract.

You will hear either direct from the Washington office in the matter or from this office when we have been given the information.

Very truly yours,

W. M. TRAVER

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

JWT:jp
cc Subject
Chron
Binyon
Cuppels
Harshman
Chairman, Op. Comm. (4)
Townsend

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Rapid City Experiment Station
School of Mines Campus
Rapid City, South Dakota

FEB 9 1955
DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 1 1955

February 7, 1955

Memorandum

To: W. M. Traver, Executive Officer, DMEA Field Team, Reg. III

From: E. O. Binyon, Rapid City, S. Dak.

Subject: Docket DMEA 2857 (Uranium), Contract Idm E-517, Ortmayer-Sullivan and Boyle, Fall River County, S. Dak.

Enclosed are copies of the operator's letter and of the reply from this office.

E O Binyon
E. O. Binyon

cc: Traver (2)
files

SODAK URANIUM & MINING CO., INC.

Edgemont, South Dakota

February 2, 1955

Mr. E. O. Binyon, Mining Engineer
U. S. Bureau of Mines
School of Mines Campus
Rapid City, South Dakota

Re: Docket DMEA 2857
Contract Idm E-517

Dear Mr. Binyon:

As of November 15, 1954 the partnership of Ortmayer, Sullivan and Boyle assigned all its assets subject to liabilities to the Sodak Uranium and Mining Company, Inc., a Delaware corporation. In connection with the assignment, Mr. R. G. Sullivan has sold all of his interest in the partnership and retains no interest in the corporation.

The officers of the corporation are as follows:

| | | |
|---|---|---|
| Clyde R. Boyle | Edgemont, S. Dak. | President and Director |
| W. E. Haldane | Grand Junction, Colorado | Vice President and Director |
| Paul H. Russell | Edgemont, S. Dak. | Secretary-Treasurer and Director |
| Jack O. Jones | Grand Junction, Colorado | Director |
| C. C. Ortmayer | Grand Junction. Colorado | Chairman of the Board of Directors. |

Will you kindly inform me as to the information required to receive approval from the DMEA of the assignment.

Yours very truly,

/s/ C. R. Boyle

COPY

Rapid City Experiment Station
School of Mines Campus
Rapid City, South Dakota

February 7, 1955

Mr. Clyde R. Boyle, President
Sodak Uranium and Mining Co., Inc.
Box 330
Edgemont, So. Dak.

Re: Docket DMEA 2857
Contract Idn E-517

Dear Mr. Boyle:

This is to acknowledge receipt of your letter concerning assignment of the subject contract by the partnership of Ortmayer, Sullivan and Boyle to the Sodak Uranium and Mining Co., Inc.

As these matters are handled by the Denver Office, your letter is being referred to Mr. W. M. Traver, Executive Officer, DMEA Field Team, Reg. III, and the information you have requested will be furnished from that office.

Yours very truly,

E. O. Binyon
Mining Engineer

cc: Traver (2)
files

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 14 1955

224 New Customhouse
Denver 2, Colorado

February 10, 1955

Mr. C. R. Boyle
Sodak Uranium and Mining Co., Inc.
Edgemont, South Dakota

Re: Docket DMEA 2857 (Uranium)
Contract Idm-E517
Ortmayer, Sullivan & Boyle
Fall River County, South Dakota

Dear Mr. Boyle:

Reference is made to your letter of February 3, 1955 to Mr. E.O. Binyon, Rapid City, South Dakota, wherein you request advice as to the information required to receive approval from the Defense Minerals Exploration Administration for the assignment of the contract to the new operating company.

As indicated in the reply to you from Mr. Binyon, your letter was forwarded to this office for action. We have forwarded the matter to the Washington office, DMEA, for advice as to the specific documents needed in order for them to approve the assignment of the contract.

You will hear either direct from the Washington office in the matter or from this office when we have been given the information.

Very truly yours,

W. M. TRAVER

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

JWT:jp
cc Subject
Chron
Binyon
Cuppels
Harshman
Chairman, Op. Comm. (4)
Townsend

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Rapid City Experiment Station
School of Mines Campus
Rapid City, South Dakota

Rmea
FEB 9 1955

February 7, 1955

Memorandum

To: W. M. Traver, Executive Officer, DMEA Field Team, Reg. III

From: E. O. Binyon, Rapid City, S. Dak.

Subject: Docket DMEA 2857 (Uranium), Contract Idm E-517, Ortmayer-Sullivan and Boyle, Fall River County, S. Dak.

Enclosed are copies of the operator's letter and of the reply from this office.

E O Binyon
E. O. Binyon

cc: Traver (2)
files

DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
RECEIVED
FEB 14 1955

SODAK URANIUM & MINING CO., INC.

Edgemont, South Dakota

February 2, 1955

Mr. E. O. Binyon, Mining Engineer
U. S. Bureau of Mines
School of Mines Campus
Rapid City, South Dakota

Re: Docket DMEA 2857
Contract Idm E-517

Dear Mr. Binyon:

As of November 15, 1954 the partnership of Ortmayer, Sullivan and Boyle assigned all its assets subject to liabilities to the Sodak Uranium and Mining Company, Inc., a Delaware corporation. In connection with the assignment, Mr. R. G. Sullivan has sold all of his interest in the partnership and retains no interest in the corporation.

The officers of the corporation are as follows:

| | | |
|---|---|---|
| Clyde R. Boyle | Edgemont, S. Dak. | President and Director |
| W. E. Haldane | Grand Junction, Colorado | Vice President and Director |
| Paul H. Russell | Edgemont, S. Dak. | Secretary-Treasurer and Director |
| Jack O. Jones | Grand Junction, Colorado | Director |
| C. G. Ortmayer | Grand Junction. Colorado | Chairman of the Board of Directors. |

Will you kindly inform me as to the information required to receive approval from the DMEA of the assignment.

Yours very truly,

/s/ C. R. Boyle

COPY

Rapid City Experiment Station
School of Mines Campus
Rapid City, South Dakota

February 7, 1955

Mr. Clyde R. Boyle, President
Sodak Uranium and Mining Co., Inc.
Box 330
Edgemont, So. Dak.

Re: Docket DMEA 2857
Contract Idm E-517

Dear Mr. Boyle:

This is to acknowledge receipt of your letter concerning assignment of the subject contract by the partnership of Ortmayer, Sullivan and Boyle to the Sodak Uranium and Mining Co., Inc.

As these matters are handled by the Denver Office, your letter is being referred to Mr. W. M. Traver, Executive Officer, DMEA Field Team, Reg. III, and the information you have requested will be furnished from that office.

Yours very truly,

E. O. Bingen
Mining Engineer

cc: Traver (2)
File

2857

3 1954

Mr. Thomas H. Reading
NMA Auditor
204 New Customhouse Building
Denver 2, Colorado

Dear Mr. Reading:

Reference is made to a letter from C. O. Mittenhof to J. H. Kent, Jr., under date of November 23, 1954, in regard to several problems raised in Mr. Kent's letter of November 15, 1954. One problem was the status of audited projects among the contracts transferred from Region V to Region IV.

Contracts R38-Keenan Properties, R317-Grunsyer, Sullivan and Boyle, R320-Mining Research Corporation, are still open.

The first phases of the Keenan Properties have been finished and have been audited. If you do not have a copy of the audit you doubtless will find some in the Executive Officer's copies transferred to Mr. King. The other two projects, that is, R317 and R320 are agreed unit cost contracts and most probably can be reviewed with the information in the Finance Officer and Executive Officer's files when such contracts are finished.

Sincerely yours,

Jay L. Chambers, Chief
Contract Administration
and Audit Division

JLChambers/wb
December 3, 1954

Copy to: Docket
Admr. Reading File
Mr. Chambers

November 29, 1954

Memorandum

To: Hamel Berry, Operating Committee

From: Grace L. Ault, Rare & Misc. Metals Division

Subject: Amendment to contract

Mr. Murphy reviewed and approved Amendment No. 3, dated November 2, 1954, to Contract No. Idm-E517, Docket No. DMEA-2857, Ortmayer, Sullivan and Boyle.

/s/ Grace L. Ault

Grace L. Ault

Date 11-24-54

To: Mr. Murphy (for Mr.Knouse)

Docket No. 2857 Ortmayer, Sullivan and Boyle
Contract No. Idm-E517

Attached is Amendment No. 3, dated November 2, 1954

to be reviewed.

Approved Murphy

Other action none.

Please return this slip to me for my records.

Mrs. Ault

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
Region V
2908 Colfax Avenue South
Minneapolis 8, Minnesota

November 22, 1954

Memorandum

To: Operating Committee, Defense Minerals Exploration Administration, Washington, D. C.

From: Executive Officer, Field Team, Region V

Subject: Docket DMEA 2857, Contract Idm E-517, Ortmayer, Sullivan and Boyle

Here are the original and three copies of Amendment No. 3, which extends the completion date of the subject contract to May 7, 1955.

Copies of letters from the operator to our representative at Rapid City and from Rapid City to this office are attached to indicate the reason for the extension of the exploration date.

A. B. NEEDHAM

Attachments

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON, D.C.~~
Region V
2908 Colfax Avenue South
Minneapolis 8, Minnesota

Minerals Administ.
RECEIVED

October 29, 1954

Memorandum

To: Operating Committee, Defense Minerals Exploration Administration, Washington, D. C.

From: Executive Officer, Field Team, Region V

Subject: Operator's Monthly Report and Voucher for the month of September 1954, Docket DMEA 2857, Contract Idm E-517, Ortmayer, Sullivan and Boyle, Edgemont, South Dakota

Attached are two copies of the subject report for the month of September 1954, as processed for payment, for your files.

A. B. NEEDHAM

Attachments

Form MF-104 (Rev.)
(April 1952)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1036.3.
Approval expires 6-30-53.

Defense Minerals Administration
RECEIVED
NOV 1 - 1954

# OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of Sept., 195 4 Docket No. DMEA 2857 Contract No. IDM-E517
Operator's Name C.G. Ortmayer, R.G. Sullivan, C.R.Boyle Minerals Uranium
Address Box 330, Edgemont, South Dakota
Contract Amount, $ 38,945.00 Government Participation: 90 % Amount, $35,050.50

| ITEMS OF COSTS | FOR OPERATOR'S USE | | | FOR GOVERNMENT USE ONLY | | |
|---|---|---|---|---|---|---|
| | Monthly Total | Totals Previously Reported | Totals To Date | Approved Monthly Total | Approved Totals Previously Reported | Approved Totals To Date |
| (1) Independent Short Form Contracts: | | | | | | |
| Drilling Wagon | 2168.40 | 10,219.56 | 12,387.96 | 2,168.40 | 10,219.56 | 12,387.96 |
| Bulldozing | | | | | | |
| Crosscutting | | | | | | |
| Drifting | | | | | | |
| (2) Labor and Supervision: | | | | | | |
| Labor | | | | | | |
| Supervision | | | | | | |
| Technical Services | | | | | | |
| (3) Operating Mat'ls. and Supplies: | | | | | | |
| Timber | | | | | | |
| Explosives | | | | | | |
| Pipe | | | | | | |
| Track | | | | | | |
| (4) Operating Equipment: | | | | | | |
| Rental | | | | | | |
| Purchase | | | | | | |
| Depreciation | | | | | | |
| (5) Initial Rehabilitation and Repairs | | | | | | |
| (6) New Bldgs., Improvements, etc. | | | | | | |
| (7) Miscellaneous: | | | | | | |
| Repairs to Equipment | | | | | | |
| Sampling and Analysis | | | | | | |
| Payroll Taxes | | | | | | |
| Liability Insurance | | | | | | |
| (8) Contingencies (specify): | | | | | | |
| TOTALS | 2168.40 | 10,219.56 | 12,387.96 | 2,168.40 | 10,219.56 | 12,387.96 |

I certify that the above bill is correct and just and that payment therefor has not been received.

Date 10-5-54 *Payee R.G. Sullivan, C.G. Ortmayer & C.R. Boyle

Per C.R. Boyle Title Manager

When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully ment or representation to any department or agency of the United States as to any matter within its

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 1951.56 HH

Signature L.W. Hill
(Authorized Certifying Officer)

Date OCT 27 1954 Vou. No. 9

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. 104-F517 in accordance with the terms of the contract.

Signature E. O. Brown Title Mining Engineer Date October 22, 1954

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature C. B. Needham Title Ex Off Date 10/25/54

# MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

*Preparation of Form MF-104—Operator's Monthly Report and Voucher.*—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2), include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind.—The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

U. S. GOVERNMENT PRINTING OFFICE 205675

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151
Approval expires 6-30-53.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
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NOV 1 - 1954

# UNITED STATES
# DEPARTMENT OF THE INTERIOR
## DEFENSE MINERALS EXPLORATION ADMINISTRATION
# OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of Sept. 195 4 Docket No. DMEA 2857 Contract No. IDM-E517
Operator's Name C.G.Ortmayer,R.G.Sullivan,C.R.Boyle Minerals Uranium
Address Box 330, Edgemont, South Dakota

| OPERATION | Unit | Costs This Month | Units This Month | Costs to Date | Units to Date | Unit Costs to Date | Authorized by Contract: Units | Authorized by Contract: Unit Costs |
|---|---|---|---|---|---|---|---|---|
| Drifting | | | | | | | | |
| Crosscutting | | | | | | | | |
| Raising | | | | | | | | |
| Shafts | | | | | | | | |
| Winzes | | | | | | | | |
| Drilling: Core | | | | | | | | |
| ~~Churn~~ Wagon Auger | Ft. | 2168.40 | 2085 | 12,387.96 | 11,911.5 | 1.04 | 15.6M | 26,013.46* |
| Stripping | | | | | | | | |
| Trenching | | | | | | | | |
| Test Pits | | | | | | | | |
| Roads and Trails | | | | | | | | |
| Total Distributed Costs | | | | | | | | Total Costs Authorized by Contract |
| Operating Equipment Purchased | | | | | | | | |
| Initial Rehabilitation and Repairs | | | | | | | | |
| New Buildings, Improvements, etc. | | | | | | | | |
| Total Costs | | 2168.40 | | 12,387.96 | | | | 38,945.00 |

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

Remarks: * Total - Stage I

Date 10-5-54 Operator C.G.Ortmayer,R.G.Sullivan & C.R.Boyle

Per C.R.Boyle Title Manager

NOTE.—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.

(Instructions on reverse)

(For Government use only)

## INSTRUCTIONS

*Preparation of Form MF–104A—Operator's Unit Cost and Progress Report.*—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF–104A has been designed to tie in with Form MF–104 for both monthly and cumulative costs. The "Total Costs" on Form MF–104A for each month should equal the monthly "Total Costs" as reported on Form MF–104. This is also true of the "Total Costs To Date".

In preparing Form MF–104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 83-38475

WAGON DRILLING NARRATIVE
FOR
SEPTEMBER, 1954

DMEA:
Docket No. 2857
Contract No. IDM-E517

During the month of September, 1954 Holes Nos. 9 through 27 were drilled resulting in a total footage for the month of 2085 feet. The depth of each hole is shown on the attached Probe Survey and the location is shown on Map #DM-6, also attached.

The important result is the absence of radioactivity in any of the holes so far drilled: as shown by the probe survey. However this fact does not, as yet, rule out the planned area. The holes, as shown on Map DM-6, have outlined the area with the exception of closing the line between #2 and #20 on 100' centers. This sequence was used to permit drawing sections east and west and north-south. The logging is still not completed and the structure as shown on the map by William Braddock is not yet disproved. Mr. Norman Cupples reports the logging has shown a lensing of the sandstone beds encounted in the section drilled; and that further data regarding this may offer new ideas regarding the possible location of mineral within the planned area.

Clyde F. Boyle

PROBE SURVEY OF WAGON DRILL HOLES
September, 1954

DMEA:
Docket No. 2857
Contract No. IDM-E517

Claims:
Rip Snorter
Morning Glory
Montana #1
Matias Peak #1

| Hole No. | Total Depth in ft. | Probed Depth in ft. | Reading | Background |
|---|---|---|---|---|
| 9 | 150 | 150 | 4/5 | 4/5 |
| 10 | 120 | 120 | 4/5 | 4/5 |
| 11 | 90 | 90 | 6/5 | 6/5 |
| 12 | 120 | 120 | 4/5 | 4/5 |
| 13 | 130 | 130 | 4/5 | 4/5 |
| 14 | 120 | 120 | 4/5 | 4/5 |
| 15 | 150 | 150 | 5/5 | 4/5 |
| 16 | 160 | 160 | 6/5 | 4/5 |
| 17 | 143 | 143 | 4/5 | 4/5 |
| 18 | 160 | 160 | 4/5 | 4/5 |
| 19 | 162 | 162 | 7/5 | 4/5 |
| 20 | 40 | 40 | 4/5 | 4/5 |
| 21 | 100 | 100 | 8/5 | 4/5 |
| 22 | 70 | 70 | 8/5 | 4/5 |
| 23 | 70 | 70 | 6/5 | 4/5 |
| 24 | 70 | 70 | 8/5 | 4/5 |
| 25 | 90 | 90 | 4/5 | 4/5 |
| 26 | 70 | 70 | 5/5 | 4/5 |
| 27 | 70 | 70 | 4/5 | 4/5 |

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D.C.~~
Region V
2908 Colfax Avenue South
Minneapolis 8, Minnesota

Defense Minerals Administration
RECEIVED
SEP 30 1954

September 28, 1954

Memorandum

To: Operating Committee, Defense Minerals Exploration Administration, Washington, D. C.

From: Executive Officer, Field Team, Region V

Subject: Operator's Monthly Report and Voucher for the month of August 1954, Docket DMEA 2857, Contract Idm-E517 Am., C. G. Ortmayer, R. G. Sullivan & C. R. Boyle, Box 330, Edgemont, South Dakota

Attached are two copies of the subject report for the month of August 1954, as processed for payment, for your files.

A. B. NEEDHAM

Attachments

Form MF-104 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.3.
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
SEP 30 1954

Wash

# OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of August, 1954 Docket No. DMEA 2857 Contract No. IDM-E517 Am.
Operator's Name C.G.Ortmayer, R.G.Sullivan& C.R.Boyle Minerals Uranium
Address Box 330, Edgemont, South Dakota
Contract Amount, $38,945.00 Government Participation: 90% Amount, $35,050.50

| ITEMS OF COSTS | FOR OPERATOR'S USE | | | FOR GOVERNMENT USE ONLY | | |
|---|---|---|---|---|---|---|
| | Monthly Total | Totals Previously Reported | Totals To Date | Approved Monthly Total | Approved Totals Previously Reported | Approved Totals To Date |
| (1) Independent / Short Form } Contracts: | 1279.20 | | | | | |
| Drilling Wagon | ~~1279.20~~ | 8940.36 | 10,219.56 | ~~1,279.20~~ | ~~8,940.36~~ | ~~10,219.56~~ |
| Bulldozing | | | | | | |
| Crosscutting | | | | | | |
| Drifting | | | | | | |
| (2) Labor and Supervision: | | | | | | |
| Labor | | | | | | |
| Supervision | | | | | | |
| Technical Services | | | | | | |
| (3) Operating Mat'ls. and Supplies: | | | | | | |
| Timber | | | | | | |
| Explosives | | | | | | |
| Pipe | | | | | | |
| Track | | | | | | |
| (4) Operating Equipment: | | | | | | |
| Rental | | | | | | |
| Purchase | | | | | | |
| Depreciation | | | | | | |
| (5) Initial Rehabilitation and Repairs | | | | | | |
| (6) New Bldgs., Improvements, etc. | | | | | | |
| (7) Miscellaneous: | | | | | | |
| Repairs to Equipment | | | | | | |
| Sampling and Analysis | | | | | | |
| Payroll Taxes | | | | | | |
| Liability Insurance | | | | | | |
| (8) Contingencies (specify): | | | | | | |
| TOTALS | 1279.20 | 8940.36 | 10,219.56 | ~~1,279.20~~ | ~~8,940.36~~ | ~~10,219.56~~ |

I certify that the above bill is correct and just and that payment therefor has not been received.

Date 9-10-54 *Payee R. G. Sullivan, C. G. Ortmayer & C. R. Boyle

Per C.R. Boyle Title Manager

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing company or corporate name, as well as the capacity in which he signs, must appear. For example: "John company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully ment or representation to any department or agency of the United States as to any matter within its

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$1151.28 DB

Signature L.A. Lee
(Authorized Certifying Officer)

Date SEP 17 1954 Vou. No. 6

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. Idm-E617 in accordance with the terms of the contract.

Signature E O Benyon Title Mining Engineer Date September 14, 1954

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature O B Weatherm Title Exec Officer Date 9/16/54

# MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(*a*) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(*b*) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(*c*) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

*Preparation of Form MF-104—Operator's Monthly Report and Voucher.*—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

GPO 83-38476

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151
Approval expires 6-30-53.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administ.
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# UNITED STATES
# DEPARTMENT OF THE INTERIOR

## DEFENSE MINERALS EXPLORATION ADMINISTRATION

# OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of August, 1954 Docket No. DMEA 2857 Contract No. IDM-E517 Am.
Operator's Name C.G.Ortmayer, R.G.Sullivan, & C. R.Boyle Minerals Uranium
Address Box 330, Edgemont, South Dakota

| OPERATION | UNIT | COSTS THIS MONTH | UNITS THIS MONTH | COSTS TO DATE | UNITS TO DATE | UNIT COSTS TO DATE | AUTHORIZED BY CONTRACT | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | Units | Unit Costs |
| Drifting | | | | | | | | |
| Crosscutting | | | | | | | | |
| Raising | | | | | | | | |
| Shafts | | | | | | | | |
| Winzes | | | | | | | | |
| Drilling: Core | | | | | | | | |
| ~~Diam.~~ Wagon | Ft. | 1279.20 | 1230 | 10,219.56 | 9826.5 | 1.04 | 15.6M | ~~26.1~~ 26,013.46* |
| Auger | | | | | | | | |
| Stripping | | | | | | | | |
| Trenching | | | | | | | | |
| Test Pits | | | | | | | | |
| Roads and Trails | | | | | | | | |
| TOTAL DISTRIBUTED COSTS | | | | | | | | TOTAL COSTS AUTHORIZED BY CONTRACT |
| Operating Equipment Purchased | | | | | | | | |
| Initial Rehabilitation and Repairs | | | | | | | | |
| New Buildings, Improvements, etc. | | | | | | | | |
| TOTAL COSTS | | 1279.20 | | 10,219.56 | | | | 38,945.00 |

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

Date 9-10-54 Operator R. G. Sullivan, C. G. Ortmayer & C. R. Boyle

Per C R Boyle Title Manager

REMARKS: *Total- Stage I

NOTE.—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.

(Instructions on reverse)

(For Government use only)

## INSTRUCTIONS

*Preparation of Form MF–104A—Operator's Unit Cost and Progress Report.*—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF–104A has been designed to tie in with Form MF–104 for both monthly and cumulative costs. The "Total Costs" on Form MF–104A for each month should equal the monthly "Total Costs" as reported on Form MF–104. This is also true of the "Total Costs To Date".

In preparing Form MF–104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 83-38475

Minerals A
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SEP 30 1954

# WAGON DRILLING NARRATIVE
# FOR
# AUGUST, 1954

DMEA:
Docket No. 2857
Contract No. IDM-E517 Am.

Exploration under the above contract was resumed August 16, 1954. The contract was amended during May, 1954 extending the date of completion to November 7, 1954

The plan of the present work is shown on the new Exhibit "A", amendent No. 2. The drill grid, as shown on the map by William A. Braddock included in Exhibit "A", is located on parts of the Rip Snorter No. 1, Morning Glory, Montana No. 1 and Matias Peak No. 1 claims. There is no Block No. given to the area. A Map, No. DM-6, is attached.

Due to the increased depth to be prospected a rotary drill has been contracted to do the drilling. The price is $0.75 per foot. The contractor is the McGuire Drilling Company of Hot Springs, South Dakota. The drill being used is a Failing No. 1500. Blowing air is furnished by A Chicago Pneumatic Rotary Type Compressor which provides 365 cu. ft. per min. at 110 Lbs. per s. I. Both units are separately mounted on 1½ ton trucks. The topography being fairly level no difficulty has been encountered gaining access to the holes so far drilled. Some short access roads will have to be made to reach two parts of the area.

Drilling has averaged 123 feet per shift. Some difficulty was encountered with hard ground necessitating the use of a rock bit instead of the drag type ordinarily quite adequate. The hard ground is a zone of the sandstone having a higher lime content and better cementation; the average thickness being about 5 feet. Drilling speeds in this zone is approximately 3 feet per hour as compared to a speed of 15 feet per hour in the ordinary sandstones and mudstones. The diameter of the holes is 3-3/4 inches. As shown on the probe survey no caving of the holes has been noticed as yet.

Samples are taken at 2 foot intervals. These are taken by an apparatus similar to a Duclone Sample Catcher and are saved in 12# paper sacks. A small cut is taken from each sample and will be logged by a competent geologist to determine the lithology of the formations. These logs will be reported one month late.

Results of the drilling are shown on the Probe Survey attached. No radioactivity was found in the holes so far drilled. The slight variations in the readings are not considered due to radioactivity and are reported as background. All 2' samples were also checked and no radioactivity was noted.

C. F. Boyle

PROBE SURVEY OF WAGON DRILL HOL S
August, 1954

DMEA:
Docket No. 2857
Contract No. IDM-E517 Am.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
SEP 30 1954

Claims:
Rip Snorter #1
Morning Glory
Montana #1
Matias Peak #1

| Hole No. | Total Depth in ft. | Probed Depth in ft. | Reading | Backgrond |
|---|---|---|---|---|
| C-1-A | 110 | 110 | 6/5 | 6/5 |
| * 2 | 200 | 180 | 6/5 | 6/5 |
| 3 | 172.5 | 172.5 | 4/5 | 4/5 |
| 4 | 180 | 180 | 5/5 | 5/5 |
| 5 | 155 | 155 | 4/5 | 4/5 |
| 6 | 137.5 | 137.5 | 4/5 | 4/5 |
| 7 | 150 | 150 | 4/5 | 4/5 |
| 8 | 125 | 125 | 6/5 | 6/5 |
| | 1230 | 1230 | | |

* Probe is only 180 feet long. Sacks were checked from 180 to 200.

Note: 4/5: A Babble Counter, Model #600, is being used for the probe survey. In the reading shown the numerater denotes the number of graduations read on the meter; the denominator states the scale or range of sensitivity being used. On this counter there are 5 ranges of sensitivity, No. 5 being the most sensitive. For comparison; in this area, a reading of 20/3 has been found to equal a value of 0.25 U308.

C. F. Boyle

7/19/54 gla

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
Region V
2908 Colfax Avenue South
Minneapolis 8, Minnesota

July 14, 1954

Memorandum

To: Operating Committee, Defense Minerals Exploration Administration, Washington, D. C.

From: Executive Officer, Field Team, Region V

Subject: Docket DMEA 2857, Contract E-517, Ortmayer, Sullivan and Boyle

Returned are the Government Division and Docket copies of Amendment No. 2 to the subject contract duly executed.

One copy is being transmitted to the regional fiscal section and a copy is being retained by this office.

A. B. NEEDHAM

Attachments

Mr. A. B. Needham
Executive Officer
DMEA Field Team, Region V
2908 Calfax Avenue, South
Minneapolis 8, Minnesota

Re: Docket No. DMEA-2857 (Uranium
Contract No. Ida-4917
C. G. Ortemeyer, L. G. Sullivan,
and C. R. Boyle, Partners
Rip Snorter and Parlor Groups of claims
Fall River County, South Dakota

Dear Mr. Needham:

This is with reference to your memorandum of May 19, 1954, and the Interim Report attached thereto. Enclosed are the original and five copies of proposed Amendment No. 2 to the captioned contract, signed by the Administrator.

Please have the amendment dated, signed by the Operator, and make the usual distribution of the copies.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

Enclosures (6)

APPROVED:

J. H. Hedges

Member, Bureau of Mines

J. E. L. McKnight

Member, Geological Survey

FLKnouse/mm
6-21-54
cc to: Admr. Reading File
Operating Committee
Docket
Messrs. E.D.Keiser, Rm. 3641
A.P.Butler, Rm. 3212, GSA
J.O.Rested, Rm. 3210, GSA
TCO
Mr. Knouse

June 9, 1954

Memorandum

To: Acting Assistant Solicitor

From: F. L. Knouse
For Ernest Wm. Ellis, Chief, Rare & Misc. Metals Division

Subject: Docket No. DMA-2857 (Uranium)
Contract No. Idm-2517
Ortmayer, Sullivan and Boyle
Amendment No. 2

Please draft Amendment No. 2 to the subject contract which will provide for the following:

1. From Stage II, Exhibit "A" of the contract, reduce the quantity of wagon drilling 11,696.5 feet and add this amount to Stage I drilling.

2. From Stage II, Exhibit "A" of the contract, under "Estimated Cost of the Project," delete the item "200 sample analyses, including freight and postage, @ $4.00/each $800.00" and add this item to Stage I.

3. In addition to the work set forth in Exhibit "A" for Stage I, drill 120 wagon drill holes to an average depth of 130 feet, or not to exceed a total of 15,600 feet, in the area included in part on Montana No. 1, Matias Peak No. 1, Ripsnorter No. 1, and Morning Glory claims. Primary holes are to be drilled on a grid spacing of 100 x 100 feet, followed by offset holes surrounding holes where encouraging mineralization has been found of not less than 50-feet spacing if approved by the Government.

4. Included in Item 3., drill holes Nos. 178, 179, 181, 159, 160, 161, 162, and 219 to 237, inclusive, are to be deepened to an average depth of 80 feet.

The approximate locations of the holes to be drilled are shown on the attached map entitled "Matias Peak Claim Group, Idm-2517, by W. A. Pendleton, April 28, 1954," in map area "Structure Contours, Base of Lower Sandstone."

F. L. Knouse

FLKnouse/gla
6-9-54
cc to: Docket
Division contract file
Mr. Knouse

6/7/54 fa

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

May 28, 1954

W. S. Twenhofel, USGS Acting Member, Uranium Commodity Committee

Field Team interim report, DMEA Docket 2857 (Uranium), Contract Idm-E517, C. G. Ortmayer, R. G. Sullivan, and C. R. Boyles, contractors; Repsnorter and Parker groups of claims, Secs. 26, 27 and 34, T. 7 S., R. 3 E., and Sec. 3, T. 8 S., R. 3 E., Fall River, South Dakota

I have reviewed an undated interim report of the Field Team, Region V, concerning the above subject. The interim report, although undated, probably was prepared in May 1954, as it is stamped as received by the Defense Minerals Administration, Washington on May 21, 1954.

Comment

The Field Team interim report points out, because of unfavorable results of drilling under Stage I of the contract, that only 262 holes aggregating 8,596.5 feet were drilled out of a total authorized footage of 12,500 feet.

However, in spite of the unfavorable results of the drilling under Stage I, the Field Team, on the basis of additional geologic study done by the U. S. Geological Survey in the summer of 1953, recommends that authorization be granted to proceed with a modified Stage II and to apply the authorized footage still remaining under Stage I to the modified Stage II program. The results of the Field Team recommendation is to leave unchanged the total amount of the contract. To date $8,996.36 of the contract has been spent, leaving $29,948.64 available for work under the modified Stage II program.

The recommendation for a modified Stage II program is based entirely on geologic reasoning from data collected by the U. S. Geological Survey since the contract was originally approved. The geologic data upon which the recommendation is based, is fully presented in the interim Field Team report.

I have discussed the modified Stage II program with Mr. Lincoln R. Page of theU. S. Geological Survey, under whose direction the geologic studies were made by the Survey in the area covered by this contract, and Mr. Page concurs with the recommendation of the Field Team

Recommendation

On the basis of the data contained in the interim Field Team report and discussion with Lincoln R. Page, U. S. Geological Survey, I recommend that the existing contract with the applicant be modified as necessary to conform with the modifications proposed by the Field Team report.

Copies to: E. Wm. Ellis (2)

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

May 28, 1954

W. S. Twenhofel, USGS Acting Member, Uranium Commodity Committee

Field Team interim report, DMEA Docket 2857 (Uranium), Contract Idm-E517, C. G. Ortmayer, R. G. Sullivan, and C. R. Boyles, contractors; Repsnorter and Parker groups of claims, Secs. 26, 27 and 34, T. 7 S., R. 3 E., and Sec. 3, T. 8 S., R. 3 E., Fall River, South Dakota

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However, in spite of the unfavorable results of the drilling under Stage I, the Field Team, on the basis of additional geologic study done by the U. S. Geological Survey in the summer of 1953, recommends that authorization be granted to proceed with a modified Stage II and to apply the authorized footage still remaining under Stage I to the modified Stage II program. The results of the Field Team recommendation is to leave unchanged the total amount of the contract. To date $8,996.36 of the contract has been spent, leaving $29,948.64 available for work under the modified Stage II program.

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Recommendation

On the basis of the data contained in the interim Field Team report and discussion with Lincoln R. Page, U. S. Geological Survey, I recommend that the existing contract with the applicant be modified as necessary to conform with the modifications proposed by the Field Team report.

Copies to: E. Wm. Ellis (2)

24F-800

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

# REFERENCE SLIP

DATE 5/21

REFERRED TO:

1. Mr. Thayer
2.
3.
4.

FOR:

| | |
|---|---|
| ..... Action | ..... Recommendation |
| ..... Approval | ..... Record of ..... |
| ..... Comment | ..... Referring to ..... |
| ..... Conference | ..... Reply for signature of ..... |
| ..... Consideration | ..... Rewriting |
| ..... Filing | ..... Signature |
| ..... Instructions | ..... Suggestions |
| ..... Investigation | ..... Your information |
| ..... Initials | |
| ..... Mailing | |
| ..... Previous correspondence | |

REMARKS: .....

Check (X) before the items needing attention.

George C. Selfridge

*Initials of sender.*

GPO 16—63815-1

INTERIM REPORT OF FIELD TEAM
Region V

E. W. Bingon, Mining Engineer
U. S. Bureau of Mines

W. A. Braddock, Geologist
U. S. Geological Survey

GEOLOGICAL SURVEY
TEFCO
RECEIVED
MAY 27 1954
Denver

Docket No.: 2857
Contract: Idm 1-517
Commodity: Uranium
Applicant: Ortmayer, Sullivan & Boyle, Box 330, Edgemont, S. Dak.
Property: Ringsnorter-Parker Claim Group, Fall River County, S. Dak.

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

In October 1953 an interim report was prepared recommending completion of Phase I drilling and, if the results warranted, a continuation into Phase II, all drilling to be done mainly on the Ringsnorter No. 1 claim. Shortly after the report was written, the operator did some radiometric surveying in this area and also some jacob drilling (not under contract) on the Cycad No. 1 claim. A small anomaly was found on the Ringsnorter No. 1 and a bulldozer cut was dug; however, no ore was found. The drilling on the Cycad No. 1 around an ore body proved that the deposit did not extend laterally beyond the pit.

As the footage recommended by the field team at that time amounted to only 1,500 feet, the operator stated he could not get a drill rig for deep hole drilling to move in for the limited footage, and if the field team could not recommend exploration in the Parker group of claims, then he would not continue with the exploration under the DMEA contract.

The field team then attempted several times, and failed, to get the operator to decide whether or not the drilling as recommended would be completed. After some delay the operator inquired as to an amendment to

include exploration of adjoining properties and, on being informed that this was possible, then stated that he would assemble the necessary data. Although the operator, on several occasions, stated that the data would be submitted, when last contacted concerning this amendment he had apparently decided not to go through with it. The field team was under the impression that no further work would be done on the project. However, late in April the operator and the field team again discussed the project and it was decided to continue the project as recommended in this report.

The operator stated that a rig for deep drilling would be obtained. Geologists of the U. S. Geological Survey completed areal mapping in the Matias Peak area (scale 1 inch = 600 feet) during the summer of 1953. As a result, more complete geological data are now available and the geology of the area, as previously reported, has been corrected to conform to these data. The geology is discussed later in some detail in this report.

To date a total of 262 holes with an aggregate total footage of 8,596.5 has been drilled. The status of the contract at present is as follows:

Stage I

| | |
|---|---|
| Contract footage | 12,500.0 feet |
| Drilled | 8,596.5 feet |
| Remaining footage | 3,903.5 feet |

Stage II

| | |
|---|---|
| Contract footage | 24,500 feet |
| Drilled | -- |
| Remaining footage | 24,500 feet |

Of the total contract amount of $38,945.00 ($13,400 for Stage I and $25,545 for Stage II), there remains $29,948.64. Total expenditures charged to date are $8,940.36, all of which is for drilling under Stage I and not charged but due the operator is an additional $5,600 for assaying, or a total of $14,096.36 of which the government's share is $8,096.72.

The government has withheld $100.00 for the final report and has paid the operator $7,946.33.

The operator has requested an amendment (if an amendment is required) to permit exploration in the area outlined on the accompanying structural contour map. The area included is in part on the Montana No. 1, Matias Peak No. 1, Morning Glory and Ripsnorter No. 1 (see map submitted with Operator's Monthly Reports).

Based on the geologic data now available, the field team is of the opinion that conditions are very favorable for the discovery of ore in the area and that additional exploration in this area is warranted.

It is recommended that a total of approximately 120 wagon drill holes of an average depth of 130 feet, or 15,600 feet, be drilled. Of these approximately 100 holes, or 13,000 feet, are to be drilled on a grid pattern of 100 by 100 feet, and the remaining 20 holes, or 2,600 feet, be used for offset drilling on a spacing of 50 feet around mineralized holes. Included in the total footage is an allowance for redrilling to a depth of about 80 feet of the holes Nos. 178 through 181 and 159 through 162, and also any holes in the group 219 through 237 which fall on the 100 by 100-foot grid pattern. The price per foot shall remain the same--$1.04 for Stage I and $1.01 for Stage II. The footage remaining under Stage I, 3,903.5, shall be paid for at the $1.04 rate and all footage in excess of this, or approximately 11,700 feet, shall take the rate of $1.01 per foot. For assaying under Stage I and Stage II, $1,200 is allowed. Of this, $56.00 has been expended to date. It is recommended that the balance of $1,144.00 to cover assaying of samples from the proposed drilling be allowed. Also, the total contract amount and amount of government participation is to remain unchanged.

WORK COMPLETED

To date drilling has been confined to Block I and Block II and a small area on the Matias Peak No. 2 and Gerrer's Folly claims (See operator's map submitted with monthly report for September and October 1953).

A total of 262 holes with an aggregate footage of 8,596.5 feet has been drilled. Of these, 148 were drilled in Block II on the Schoonmaker No. 1 and No. 2 and Gerrer's Folly claims, 33 on the Gerrer's Folly, and Matias Peak No. 2, and 81 in Block I on the Montana No. 1 and Matias Peak No. 1 claims.

Of the holes drilled only 8 have shown any indication of mineralization. All but one of the eight are located in Block II. These are C-75, 86, 89, 100, 102, 103 and 104. In only two of these, C-75 and C-89, did the mineralization approach minable grade. Hole C-180 was the only hole in which mineralization was found. The assay results are listed below:

| Hole No. | Depth | Percent $U_3O_8$ |
|---|---|---|
| C-75 | 27-30 | 0.114 |
| C-86 | 12-15 | 0.088 |
| C-89 | 26-29 | 0.086 |
| | 29-32 | 0.102 |
| C-100 | 24-27 | 0.086 |
| C-102 | 15-18 | 0.020 |
| | 18-21 | 0.020 |
| | 21-24 | 0.060 |
| C-103 | 9-12 | -- |
| | 12-15 | -- |
| C-104 | 3-6 | -- |
| | 6-9 | 0.076 |
| | 9-12 | 0.125 |
| C-180 | 15-18 | 0.065 |

Other work done by the operator but not under the contract consists of close-spaced wagon drilling around and in the vicinity of ore bodies which were found by radiometric surveys on the Matias Peak No. 1 and Cycad No. 1 claims. Several pits have been dug and the operator reports

shipment of 120 tons of ore containing 0.27 percent $U_3O_8$ from one of the pits on the Cycad No. 1 claim. The total tonnage and grade of ore subject to royalty payments which has been shipped from other pits on the property have not yet been reported by the operator; however, he has stated that the settlement sheets would be submitted as soon as possible.

PROPOSED WORK

In the opinion of the field team and by agreement with the operator, it is proposed to drill 120 wagon drill holes of an average depth of 130 feet, or a total of approximately 15,600 feet, in the area included in part on the Montana No. 1, Matias Peak No. 1, Nissmorter No. 1, and Morning Glory claims. Drilling is to be done on a grid spacing of 100 by 100 feet and offset holes are to be drilled on a spacing of 50 feet from mineralized holes of the initial grid. Diameter of holes and sampling procedure are to be as stipulated in the contract. In addition, holes Nos. 177, 179, 181, 159, 160, 161 and 162 in the southwest portion of the area being considered (see map submitted with monthly reports) are to be redrilled to a depth averaging about 80 feet. At the time these holes were drilled no geologic data were available to suggest that deeper drilling was necessary. Also, holes in the group 219-237 north and east of the holes mentioned, which follow the grid pattern, would be redrilled. None of the other holes in rows 156 through 172 and 173 through 191 are to be redrilled.

The results of the drilling thus far completed have not been favorable and would indicate at least that the areas included in or near Blocks I and II do not warrant further exploration. However, from the additional geologic data obtained from the study of the geology and areal mapping by the members of the U. S. Geological Survey during the summer of 1953, it is the opinion of the field team that additional exploration in the area,

as outlined on the map submitted with this report is warranted.

GEOLOGY

The middle portion of the Lakota sandstone consists of a composite sandstone unit approximately 150 feet thick. This unit is underlain and overlain by carbonaceous shale. The sandstone unit consists of two, and possibly three, sandstone beds which are separated by thin mudstone lentils. The thickness of the sandstone beds and the included mudstone lenses varies. As shown on the enclosed geologic map, the sandstone unit at Matias Peak consists of a lower sandstone, an interbedded mudstone and sandstone lens, and an upper sandstone. Uranium ore has been mined from both the lower and upper sandstone.

Structure contour maps have been prepared which cover most of the adjoining mineralized areas. These maps indicate that many uranium deposits occur on gentle monoclinal flexures or on minor anticlines. A structure contour map was prepared showing the stricture of the north end of the Matias Peak claim group. A gentle anticline plunges southwest and across the area. All of the known ore bodies lie on the broad, gently dipping crest of the anticline, and associated carbonate mineralization has been found a few hundred feet south of the fold crest.

It is believed that there is a very good opportunity of discovering additional ore either in the upper or lower sandstone in the explored portion of the anticlinal crest. It is therefore recommended that the remaining footage of phase I and additional footage from [illegible] be used in the area indicated on the structure contour map. This block is bounded at the southwest end by the contract boundary, on the southeast side by previously

explored areas and by steep ground slopes. The drilling block is bounded on the northwest side by an arbitrary line which approximates the northwestern boundary of favorable lithology in the Upper and Lower sandstone. The average drill hole depths will be 130 feet.

The field team recommends that the drilling, as proposed, be approved.

5/28/54

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

May 27, 1954

Memorandum

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee, Room 4640

From: H. D. Keiser, Bureau of Mines Member
Uranium Commodity Committee

Subject: Interim Report DMEA Docket 2857, Contract Idm E-517, Ortmayer, Sullivan & Boyle, Box 330, Edgemont, S. Dak.

I have reviewed the subject report and discussed it with Joseph O. Hosted, representative of the Atomic Energy Commission.

I concur with the recommendations made by the Field Team in the subject report and, in turn, recommend that the drilling proposed by the Field Team be approved.

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

H. D. Keiser

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

May 27, 1954

Memorandum

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee, Room 4640

From: H. D. Keiser, Bureau of Mines Member
Uranium Commodity Committee

Subject: Interim Report DMEA Docket 2857, Contract Idm E-517,
Ortmayer, Sullivan & Boyle, Box 330, Edgemont, S. Dak.

I have reviewed the subject report and discussed it with Joseph O. Hosted, representative of the Atomic Energy Commission.

I concur with the recommendations made by the Field Team in the subject report and, in turn, recommend that the drilling proposed by the Field Team be approved.

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

H. D. Keiser

May 24, 1954

Memorandum

To: Mr. Arthur P. Butler, Jr., Member
Uranium Committee

Through Mr. Andrew Brown, USGS

From: Ernest Wm. Ellis, Chief
Rare and Miscellaneous Metals Division

Subject: Docket No. MTU-6857 (Uranium)
Contract No. Ida-8317
Ortenburger, Sullivan & Boyle
Hipsenartney and Parker Group of claims
Hall River County, South Dakota
Proposed Amendment No. 2

There is enclosed a copy of a memorandum dated May 19, 1954, from Mr. A. E. Hamilton, Executive Officer, Region V, with an attached copy of an Interim Report which recommends a change in the exploration program as is set forth in the contract. There is also enclosed a copy of the Operator's MP-2th report with attached narrative and map for September and October, 1953.

We will appreciate your early comments and recommendations on this proposed change in the project work.

Please return all of the attachments with your reply, as these are our file copies.

Ernest Wm. Ellis

Attachments

FIKnouse/gla

cc to: Adm. Reading File
Docket
Mr. H. D. Kaiser, Rm. 3641, USBM (with docket)
Code 700
Mr. Knouse

5/21/54 gla

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D. C.~~
Region V
2908 Colfax Avenue South
Minneapolis 8, Minnesota

21

May 19, 1954

Memorandum

To: Operating Committee, Defense Minerals Exploration Administration, Washington, D. C.

From: Executive Officer, Field Team, Region V

Subject: Docket 2857, Contract R-517, Ortmayer, Sullivan and Boyle, South Dakota

Here are the original and three copies of an interim report of the subject docket prepared by our field representatives in South Dakota.

The report recommends additional wagon drilling outside the limits of Blocks 1 and 2 specified as the area to be explored under the contract. Proposed drilling is, however, within the limits of the property originally included in the contract.

Since there would be a change in the contract specification, it is not within the authority of the Field Team to draw an amendment for the proposed additional drilling. Therefore, we are passing it on to you for execution of the proper amendment.

The operator is anxious to continue the exploration, and your prompt attention to the drawing of the amendment and submitting it for the operator will be greatly appreciated.

A. B. NEEDHAM

Attachments

INTERIM REPORT OF FIELD TEAM
Region V

E. G. Binyon, Mining Engineer
U. S. Bureau of Mines

W. A. Braddock, Geologist
U. S. Geological Survey

Docket No.: 2857
Contract: Idm E-517
Commodity: Uranium
Applicant: Ortmayer, Sullivan & Boyle, Box 330, Edgemont, S. Dak.
Property: Ripsnorter-Parker Claim Group, Fall River County, S. Dak.

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

In October 1953 an interim report was prepared recommending completion of Phase I drilling and, if the results warranted, a continuation into Phase II, all drilling to be done mainly on the Ripsnorter No. 1 claim. Shortly after the report was written, the operator did some radiometric surveying in this area and also some Gamon drilling (not under contract) on the Cycad No. 1 claim. A small anomaly was found on the Ripsnorter No. 1 and a bulldozer cut was dug; however, no ore was found. The drilling on the Cycad No. 1 around an ore body proved that the deposit did not extend laterally beyond the pit.

As the footage recommended by the field team at that time amounted to only 1,500 feet, the operator stated he could not get a drill rig for deep hole drilling to move in for the limited footage, and if the field team could not recommend exploration in the Parker group of claims, then he would not continue with the exploration under the DMEA contract.

The field team then attempted several times, and failed, to get the operator to decide whether or not the drilling as recommended would be completed. After some delay the operator inquired as to an amendment to

include exploration of adjoining properties and, on being informed that this was possible, then stated that he would assemble the necessary data. Although the operator, on several occasions, stated that the data would be submitted, when last contacted concerning this arrangement he had apparently decided not to go through with it. The field team was under the impression that no further work would be done on the project. However, late in April the operator and the field team again discussed the project and it was decided to continue the project as recommended in this report.

The operator stated that a rig for deep drilling would be obtained. Geologists of the U. S. Geological Survey completed areal mapping in the Indian Peak area (scale 1 inch = 400 feet) during the summer of 1953. As a result, more complete geological data are now available and the geology of the area, as previously reported, has been corrected to conform to these data. The geology is discussed later in some detail in this report.

To date a total of 262 holes with an aggregate total footage of 9,596.5 has been drilled. The status of the contract at present is as follows:

Stage I

| | |
|---|---|
| Contract footage | 12,500.0 feet |
| Drilled | 9,596.5 feet |
| Remaining footage | 3,903.5 feet |

Stage II

| | |
|---|---|
| Contract footage | 24,500 feet |
| Drilled | -- |
| Remaining footage | 24,500 feet |

Of the total contract amount of $37,945.00 ($13,100 for Stage I and $24,545 for Stage II), there remains $29,949.64. Total expenditures charged to date are $9,949.36, all of which is for drilling under Stage I and not charged but due the operator is an additional $5,570 for assaying, or a total of $15,096.36 of which the government's share is $8,096.72.

## WORK COMPLETED

To date drilling has been confined to Block I and Block II and a small area on the Matias Peak No. 2 and Gerner's Folly claims (See operator's map submitted with monthly report for September and October 1953).

A total of 262 holes with an aggregate footage of 8,596.5 feet has been drilled. Of these, 148 were drilled in Block II on the Schoonmaker No. 1 and No. 2 and Gerner's Folly claims, 33 on the Gerner's Folly, and Matias Peak No. 2, and 81 in Block I on the Montana No. 1 and Matias Peak No. 1 claims.

Of the holes drilled only 8 have shown any indication of mineralization. All but one of the eight are located in Block II. These are C-75, 86, 89, 100, 102, 103 and 104. In only two of these, C-75 and C-89, did the mineralization approach minable grade. Hole C-180 was the only hole in which mineralization was found. The assay results are listed below:

| Hole No. | Depth | Percent $U_3O_8$ |
|---|---|---|
| C-75 | 27-30 | 0.114 |
| C-86 | 12-15 | 0.088 |
| C-89 | 26-29 | 0.086 |
| | 29-32 | 0.102 |
| C-100 | 24-27 | 0.086 |
| C-102 | 15-18 | 0.020 |
| | 18-21 | 0.020 |
| | 21-24 | 0.060 |
| C-103 | 9-12 | -- |
| | 12-15 | -- |
| C-104 | 3-6 | -- |
| | 6-9 | 0.076 |
| | 9-12 | 0.125 |
| C-180 | 15-18 | 0.065 |

Other work done by the operator but not under the contract consists of close-spaced wagon drilling around and in the vicinity of ore bodies which were found by radiometric surveys on the Matias Peak No. 1 and Cycad No. 1 claims. Several pits have been dug and the operator reports

shipment of 120 tons of ore containing 0.27 percent $U_3O_8$ from one of the pits on the Cycad No. 1 claim. The total tonnage and grade of ore subject to royalty payments which has been shipped from other pits on the property have not yet been reported by the operator; however, he has stated that the settlement sheets would be submitted as soon as possible.

PROPOSED WORK

In the opinion of the field team and by agreement with the operator, it is proposed to drill 120 wagon drill holes of an average depth of 130 feet, or a total of approximately 15,600 feet, in the area included in part on the Montana No. 1, Matias Peak No. 1, Ringsnorter No. 1, and Morning Glory claims. Drilling is to be done on a grid spacing of 100 by 100 feet and offset holes are to be drilled on a spacing of 50 feet from mineralized holes of the initial grid. Diameter of holes and sampling procedure are to be as stipulated in the contract. In addition, holes Nos. 17[illegible], 179, 181, 159, 160, 161 and 162 in the southwest portion of the area being considered (see map submitted with monthly reports) are to be redrilled to a depth averaging about 80 feet. At the time these holes were drilled no geologic data were available to suggest that deeper drilling was necessary. Also, holes in the group 219-237 north and east of the holes mentioned, which follow the grid pattern, would be redrilled. None of the other holes in rows 156 through 172 and 174 through 191 are to be redrilled.

The results of the drilling thus far completed have not been favorable and would indicate at least that the areas included in or near Blocks I and II do not warrant further exploration. However, from the additional geologic data obtained from the study of the geology and areal mapping by the members of the U. S. Geological Survey during the summer of 1953, it is the opinion of the field team that additional exploration in the area,

as outlined on the map submitted with this report is warranted.

GEOLOGY

The middle portion of the Lakota sandstone consists of a composite sandstone unit approximately 150 feet thick. This unit is underlain and overlain by carbonaceous shale. The sandstone unit consists of two, and possibly three, sandstone beds which are separated by thin mudstone lentils. The thickness of the sandstone beds and the included mudstone lenses varies. As shown on the enclosed geologic map, the sandstone unit at Matias Peak consists of a lower sandstone, an interbedded mudstone and sandstone lens, and an upper sandstone. Uranium ore has been mined from both the Lower and Upper sandstone.

Structure contour maps have been prepared which cover most of the adjoining mineralized areas. These maps indicate that many uranium deposits occur on gentle monoclinal flexures or on minor anticlines. A structure contour map was prepared showing the structure of the north end of the Matias Peak claim group. A gentle anticline plunges southwest and across the area. All of the known ore bodies lie on the broad, gently dipping crest of the anticline, and associated carbonate mineralization has been found a few hundred feet south of the fold crest.

It is believed that there is a very good opportunity of discovering additional ore either in the Upper or Lower sandstone in the unexplored portion of the anticlinal crest. It is therefore recommended that the remaining footage of Stage I and additional footage from Stage II be used in the area indicated on the structure contour map. This block is bounded at the southwest end by the contract boundary, on the southeast side by previously

explored areas and by steep ground slopes. The drilling block is bounded on the northwest side by an arbitrary line which approximates the northwestern boundary of favorable lithology in the upper and lower sandstone. The average drill hole depths will be 130 feet.

The field team recommends that the drilling, as proposed, be approved.

2/4/54 gla

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON, D.C.~~
Region V
2908 Calfax Avenue South
Minneapolis 8, Minnesota

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB - 3 1954

February 1, 1954

Memorandum

To: Operating Committee, Defense Minerals Exploration Administration, Washington, D. C.

From: Executive Officer, Field Team, Region V

Subject: Docket DMEA 2857, Contract Idm-E517, Ortmayer, Sullivan and Boyle - Ripsnorter and Parker Claims

Reference is made to your letter of January 27, 1954. The current status of the subject project is that it is recessed and there has been no recent activity since we last wrote you regarding the proposed Amendment No. 1. The operator has advised us that he is preparing to submit a request for an amendment to include areas outside of those included in the original contract, and he is now assembling the necessary data and owner's consent to lien. Accordingly, that is the reason that Amendment No. 1 was not duly executed.

If and when we receive the new amendment to include these areas, the matter will be given immediate attention and you will be so notified.

A. B. NEEDHAM

700

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

JAN 27 1954

Mr. L. S. Needham
Executive Officer
DMEA Field Team, Region V
2308 Colfax Avenue, South
Minneapolis 8, Minnesota

Re: Docket No. DE A-2857 (Uranium)
Contract No. I [illegible]-2517
C. T. Ortmayer, E. T. Sullivan,
and C. F. Boyle, Partners
Eisenarter and Parker group of claims
Fall River County, South Dakota

Dear Mr. Needham:

Reference is made to your memorandum dated November 24, 1953, advising that the proposed Amendment No. 1 to the captioned contract which was prepared by you and sent to the Operator for signature was not being executed. You further stated that you would proceed with the termination of the contract and a final report would be prepared as soon as possible.

In order to keep our records current, we would appreciate being informed when we may expect to receive the final Field Team and Operator's reports. In this connection please also advise your recommendations concerning issuing a certificate of discovery or development.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

APPROVED:

J. H. Hedges

Member, Bureau of Mines

S/ Philip W. Smith

Member, Geological Survey

FLKnouse/fcd/ela
1/26/54
cc to: Adm. Reading File
Operating Committee
Docket
Messrs. HDKeiser, Rm. 3641
APRutler, Rm. 3212, GSA
Ellis
Knouse
DMEA Field Team, Region V

Hosted

May 28, 1954

Memorandum

To: Hansel Barry, Operating Committee

From: Grace L. Ault, Rare & Miscellaneous Metals Division

Subject: Amendment to contract

Mr. Knowse has reviewed and approved Amendment No. 1, dated May 4, 1954, to Contract No. Idm-8517, Docket No. DMEA-2857, Ortmayer, Sullivan and Boylan.

/s/ Grace L. Ault

Grace L. Ault

Date 5-28-54

Engineer Mr. Knouse

Firm 2857 Ortmayer, Sullivan and Boyle
Job-# 517

Attached is Amendment No. 1, dated May 4, 1954

to the above contract to be revised.

APPROVAL J. Knouse

Other action Legal Rev. for [illegible]

Please return this slip to me for my records

Mrs. Ault

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON, D.C.~~
Region V
2908 Colfax Avenue South
Minneapolis 8, Minnesota

May 24, 1954

Memorandum

To: Operating Committee, Defense Minerals Exploration Administration, Washington, D. C.

From: Executive Officer, Field Team, Region V

Subject: Docket 2857, Contract E-517 - Ortmayer, Sullivan and Boyle

Here are the original and two copies of Amendment No. 1 to the subject contract, extending the completion date to November 7, 1954. The reason for the extension is to provide sufficient time for the operator to determine additional drilling in connection with either Phase 2 or otherwise.

One copy of Amendment No. 1 has been transmitted to the Regional Fiscal Section, and copies retained by the operator and this office.

A. B. NEEDHAM

Attachments

1/22/54 gla

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

January 18, 1954

Arthur F. Buhler, Jr., USGS Member, Uranium Commodity Committee

Field Team interim report, DMEA Docket 2657 (Uranium), Contract DMe-8517, C. G. Ortmayer, R. G. Sullivan, and C. R. Bayles, contractors; Ripsnorter and Partner Groups of claims, Sect. 26, 27 and 34, T. 7 S., R. 3 E., and Sec. 3, T. 8 S., R. 3 E., Fall River, South Dakota

The interim report of the Field Team concerning an amendment to permit work in an area not originally included in Phase I of the contract has been reviewed. This report is dated October 12, but was not received by the reviewer until December 23, 1953.

Summary and Comment

The Field Team points out in their interim report that because of generally unpromising results, all the areas provided for in Phase I of the contract have been explored with the use of only 5,000 feet of the 12,500 feet of drilling authorized for this phase. Although the deepest mineralized stratum can be projected under these areas, they believe that drilling for them is not warranted at this time because such drilling would require heavier equipment than is now in use and closer supervision than the most experienced member of the contracting group can give.

Rather than deeper drilling in the areas defined for Phase I of the contract, the Field Team suggests using from 1,300 to 1,500 feet of footage authorized in the contract for shallower drilling to explore the vicinity of a small radioactively anomaly on the Ripsnorter No. 1 claim outside the areas originally included in Phase I authorization. Unless further study of information already obtained or results of this suggested drilling were promising, they believe that there will be no reason to proceed with Phase II drilling as originally envisioned.

The Field Team asked to be advised whether the contract can be amended to include the recommended drilling on the Ripsnorter No. 1 claim in Phase I or whether it should be considered as part of Phase II.

As the only maps showing the claims and anomalies discussed are with the original application and not now available to us, it is not possible to get a visual concept of how the Field Team's present suggestion fits into the general geologic and geographic patterns used as a basis for defining the two phases of exploration. Nevertheless, the proposal to explore a specific anomaly by shallow drilling appears

to meet the definition of Phase I given in the original report, namely, "limiting the first phase to the most favorable showings," (Rinyon and Bobbs, par. 4, p. 2, January 8, 1953) whereas exploration under Phase II was to be conducted in "other areas where available geologic data and that obtained from first phase drilling, might indicate as most favorable".

I see no geologic reason why the exploration on the Ripsnorter No. 1 claim suggested by the Field Team should not be included as part of Phase I work.

Copies to: E. Wm.Ellis (2)

Form MF-104 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.3.
Approval expires 6-30-53.

# UNITED STATES
# DEPARTMENT OF THE INTERIOR
## DEFENSE MINERALS EXPLORATION ADMINISTRATION
## OPERATOR'S MONTHLY REPORT AND VOUCHER

RECEIVED DEC 21 1953

Month of ~~October~~ Sept. 4, 195~~3~~ Docket No. DMEA ~~2837~~ Contract No. ~~IDR-2217~~
Operator's Name ~~C.O. Ortmayer, R.O. Sullivan & C.R. Boyle~~ Minerals ~~Uranium~~
Address ~~Box 330, Edgemont, South Dakota~~
Contract Amount, $ ~~13,400.00~~ Government Participation: ~~90~~ % Amount, $ ~~12,060.00~~

| ITEMS OF COSTS | FOR OPERATOR'S USE: Monthly Total | Totals Previously Reported | Totals To Date | FOR GOVERNMENT USE ONLY: Approved Monthly Total | Approved Totals Previously Reported | Approved Totals To Date |
|---|---|---|---|---|---|---|
| (1) ~~Independent~~ Short Form Contracts: | | | | | | |
| Drilling ~~Wagon Drill~~ | | | | | | |
| ~~Bulldozing~~ 9/53 | 2109.12 | 6453.72 | 8562.84 | | | |
| ~~Crosscutting~~ 10/53 | 377.52 | 8562.84 | 8940.36 | 2,486.64 | 8,453.72 | 8,940.36 |
| Drifting | | | | | | |
| (2) Labor and Supervision: | | | | | | |
| Labor | | | | | | |
| Supervision | | | | | | |
| Technical Services | | | | | | |
| (3) Operating Mat'ls. and Supplies: | | | | | | |
| Timber | | | | | | |
| Explosives | | | | | | |
| Pipe | | | | | | |
| Track | | | | | | |
| (4) Operating Equipment: | | | | | | |
| Rental | | | | | | |
| Purchase | | | | | | |
| Depreciation | | | | | | |
| (5) Initial Rehabilitation and Repairs | | | | | | |
| (6) New Bldgs., Improvements, etc. | | | | | | |
| (7) Miscellaneous: | | | | | | |
| Repairs to Equipment | | | | | | |
| Sampling and Analysis | | | | | | |
| Payroll Taxes | | | | | | |
| Liability Insurance | | | | | | |
| (8) Contingencies (specify): | | | | | | |
| TOTALS | 2486.64 | 8453.72 | 8940.36 | 2,486.64 | 8,453.72 | 8,940.36 |

I certify that the above bill is correct and just and that payment therefor has not been received.

Date 11/12/53 *Payee ~~C.O. Ortmayer, R.O. Sullivan & C.R. Boyle~~

Per C R Boyle Title ~~Manager~~

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

→ **NOTE.—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.**

**(Instructions on reverse)**

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

2237.98
100.80 for final report
$ 2137.98 NO

Signature L.A. Tyler
(Authorized Certifying Officer)

Date DEC 15 1953 Vou. No. 16
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. 1d-- 617 in accordance with the terms of the contract.

Signature E. O. Simpson Title Mining Engineer Date December 6, 1953

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature O. B. Needham Title Exec. Officer Date 12/9/53

# MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

*Preparation of Form MF-104—Operator's Monthly Report and Voucher.*—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

GPO 83-38476

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151
Approval expires 6-30-53.

# UNITED STATES
# DEPARTMENT OF THE INTERIOR

## DEFENSE MINERALS EXPLORATION ADMINISTRATION

16

## OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of Oct. 195[illegible] Docket No. DMEA [illegible] Contract No. [illegible]
Operator's Name [illegible] Minerals [illegible]
Address [illegible], South Dakota

| OPERATION | UNIT | COSTS THIS MONTH | UNITS THIS MONTH | COSTS TO DATE | UNITS TO DATE | UNIT COSTS TO DATE | AUTHORIZED BY CONTRACT | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | Units | Unit Costs |
| Drifting | | | | | | | | |
| Crosscutting | | | | | | | | |
| Raising | | | | | | | | |
| Shafts | | | | | | | | |
| Winzes | | | | | | | | |
| Drilling: Core | | | | | | | | |
| Churn [illegible] | [illegible] | 2486.64 | 2391 | 8940.36 | 8595.3[illegible] | 1.0[illegible] | [illegible] | 13,400.00 * |
| Auger | | | | | | | 24M | 25,545.00 ** |
| Stripping | | | | | | | | |
| Trenching | | | | | | | | |
| Test Pits | | | | | | | | |
| Roads and Trails | | | | | | | | |
| TOTAL DISTRIBUTED COSTS | | | | | | | | TOTAL COSTS AUTHORIZED BY CONTRACT |
| Operating Equipment Purchased | | | | | | | | |
| Initial Rehabilitation and Repairs | | | | | | | | |
| New Buildings, Improvements, etc. | | | | | | | | |
| TOTAL COSTS | | 2486.64 | | 8940.36 | | | | [illegible] |

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

Date [illegible] Operator [illegible]

Per [illegible] Title [illegible]

REMARKS: * Phase I **Phase II

NOTE.—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.

(Instructions on reverse)

(For Government use only)

## INSTRUCTIONS

*Preparation of Form MF–104A—Operator's Unit Cost and Progress Report.*—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF–104A has been designed to tie in with Form MF–104 for both monthly and cumulative costs. The "Total Costs" on Form MF–104A for each month should equal the monthly "Total Costs" as reported on Form MF–104. This is also true of the "Total Costs To Date".

In preparing Form MF–104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 83-38475

WAGON DRILLING NARRATIVE
for
SEPTEMBER & OCTOBER, 1953

DMEA
Docket No. 2857
Contract No. IDM-1517

Claims:,
Schoonmaker No. 1
Schoonmaker No. 2
Montana No.1
Matias Peak No.1

Exploration under DMEA Docket No.-2857 was continued through September and for the first five days of October, 1953. The method of drilling and logging being the same as reported in the narrative for June and July, 1953.

This report covers holes # C-194 through # C-272, a total footage of 2391 feet drilled as follows:

September -- 2,028 feet
October -- 363 feet

The above holes were located in Block 1 and Block 2, Exhibit B; the position being shown on map #DM-4 attached.

Results of the drilling are shown on the Probe Survey attached. Of the ten holes showing radioactivity, the following are considered important enough to be prospected further by close-spaced (10 ft.) drilling: Hole #195 and #201. Holes #[illegible],265,266 and 272 embrace an area that will be prospected by stripping. The probe count in these holes was not very high but the size of the area is important as is the fact that radioactivity is present for some depth: from 8 feet to 22 feet in hole # C-265. The drilling and stripping mentioned above are independent of this contract.

Also attached are the assay results to date of the samples sent to the Livingston Uranium Co. at Edgemont. Some further prospecting will be done on Holes #C-89 and #C-75. However, check samples will first be sent to the Brown Laboratory in Grand Junction, Colorado.

There is [illegible] acreage left in Block [illegible] [illegible]. Drilling was attempted in this area but due to wet ground the present rig was unable to make any progress. I am informed that Phoenix Contracting Co. can furnish a rig at the price [illegible] per foot that will drill this area to the depth needed. However, the field term has calculated that not over 1000 feet will be needed to complete the area and therefore do not feel that they can send their rig to Phoenix [illegible] Contracting for less than 3000 feet.

For the reasons, the drilling is stopped. After further discussion with the field term a final report will be written.

**Please note that Holes #256, 257, 261, 262, 267 & 268 were drilled off the property. They are not entered in the total footage and are not entered in the amounts shown on Forms #KF-104 and #KF-104A.**

C.R. Boyle

ASSAY RESULTS

| HOLE NO. | DEPTH | $U_3O_8$ |
|---|---|---|
| C-75 | 27-30 | 0.114 |
| C-86 | 12-15 | 0.038 |
| C-89 | 26-29 | 0.086 |
| | 29-32 | 0.102 |
| C-100 | 24-27 | 0.086 |
| C-102 | 15-18 | 0.02 |
| | 18-21 | 0.02 |
| | 21-24 | 0.06 |
| C-103 | 9-12 | ----- |
| | 12-15 | ----- |
| C-104 | 3-6 | ----- |
| | 6-9 | 0.076 |
| | 9-12 | 0.0125 |
| C-180 | 15-18 | 0.065 |

# PROBE SURVEY of BACON DRILL HOLES

DMEA
Docket no. 2857
Contract no. IDM-5 517

Claims
Montana #1 & #2
Matias Peak #1
Schoonmaker #1 & #2
Gerner's Polly

September & October, 1953

| Hole no. | Total Depth | Probed Depth | Reading | Background |
|---|---|---|---|---|
| C-184 | 39 | 0-26 | 22/5 | 22/5 |
| C-185 | 12 | 0-8 | 22/5 | 22/5 |
| C-186 | 12 | 0-6 | 22/5 | 22/5 |
| C-187 | 3 | 0-2 | 22/5 | 22/5 |
| C-188 | 45 | 0-24 | 22/5 | 22/5 |
| C-189 | 60 | 0-56 | 22/5 | 22/5 |
| C-190 | 36 | 0-33 | 22/5 | 22/5 |
| C-191 | 36 | 0-30 | 22/5 | 22/5 |
| C-192 | 36 | 0-33 | 4/5 | 4/5 |
| C-193 | 36 | 0-11 | 4/5 | 4/5 |
| | | 11-12 | 20/5 | 4/5 |
| | | 12-13 | 30/5 | 4/5 |
| | | 13-14 | 20/5 | 4/5 |
| | | 14-33 | 4/5 | 4/5 |
| C-194 | 36 | 0-2 | 6/5 | 4/5 |
| | | 2-3 | 18/5 | 4/5 |
| | | 3-4 | 6/5 | 4/5 |
| | | 4-31 | 6/5 | 4/5 |
| C-195 | 72 | 0-33 | 6/5 | 4/5 |
| | | 33-34 | 20/5 | 4/5 |
| | | 34-35 | 20/5 | 4/5 |
| | | 35-36 | 30/5 | 4/5 |
| | | 36-37 | 50/5 | 4/5 |
| | | 37-38 | 70/5 | 4/5 |

Probe Survey Cont.

| Hole no. | Total Depth | Probed Depth | Reading | Background |
|---|---|---|---|---|
| | | 38-39 | 30/5 | 4/5 |
| | | 39-40 | 10/5 | 4/5 |
| | | 40-69 | 6/5 | 4/5 |
| C-196 | 24 | 0-50 | 6/5 | 6/5 |
| C-197 | 45 | 0-40 | 6/5 | 6/5 |
| C-198 | 36 | 0-34 | 6/5 | 6/5 |
| C-199 | 21 | 0-17 | 6/5 | 6/5 |
| C-200 | 36 | 0-34 | 8/5 | 6/5 |
| C-201 | 36 | 0-9 | 10/5 | 6/5 |
| | | 9-10 | 60/5 | 6/5 |
| | | 10-11 | 80/4 | 6/5 |
| | | 10-11 | 24/3 | 6/5 |
| | | 11-12 | 10/5 | 6/5 |
| | | 12-35 | 6/5 | 6/5 |
| C-202 | 36 | 0-35 | 6/5 | 6/5 |
| C-203 | 36 | 0-34 | 6/5 | 6/5 |
| C-204 | 81 | 0-6 | 8/5 | 6/5 |
| | | 6-7 | 22/5 | 6/5 |
| | | 7-8 | 26/5 | 6/5 |
| | | 8-9 | 30/5 | 6/5 |
| | | 9-10 | 20/5 | 6/5 |
| | | 10-80 | 8/5 | 6/5 |
| C-205 | 15 | 0-13 | 8/5 | 8/5 |
| C-206 | 36 | 0-34 | 8/5 | 8/5 |
| C-207 | 30 | 0-28 | 8/5 | 8/5 |
| C-208 | 21 | 0-17 | 8/5 | 8/5 |
| C-209 | 36 | 0-34 | 8/5 | 8/5 |
| C-210 | 51 | 0-49 | 12/5 | 8/5 |

570 993

Probe Survey Cont.

| Hole no. | Total Depth | Probed Depth | Reading | Background |
|---|---|---|---|---|
| C-211 | 36 | 0-35 | 8/5 | 8/5 |
| C-212 | 36 | 0-36 | 8/5 | 8/5 |
| C-213 | 15 | 0-14 | 8/5 | 8/5 |
| C-214 | 36 | 0-35 | 10/5 | 10/5 |
| C-215 | 54 | 0-53 | 10/5 | 10/5 |
| C-216 | 21 | 0-17 | 10/5 | 10/5 |
| C-217 | 36 | 0-17 | 8/5 | 8/5 |
| | | 17-18 | 18/5 | 8/5 |
| | | 18-19 | 20/5 | 8/5 |
| | | 19-20 | 20/5 | 8/5 |
| | | 20-36 | 10/5 | 10/5 |
| C-218 | 9 | 0-5 | 8/5 | 8/5 |
| C-219 | 36 | 0-35 | 10/5 | 10/5 |
| C-220 | 15 | 0-13 | 10/5 | 10/5 |
| C-221 | 9 | 0-7 | 10/5 | 10/5 |
| C-222 | 36 | 0-34 | 10/5 | 10/5 |
| C-223 | 15 | 0-10 | 10/5 | 10/5 |
| C-224 | 9 | 0-7 | 10/5 | 10/5 |
| C-225 | 15 | 0-11 | 10/5 | 10/5 |
| C-226 | 54 | 0-53 | 10/5 | 10/5 |
| C-227 | 27 | 0-21 | 10/5 | 10/5 |
| C-228 | 12 | 0-12 | 10/5 | 10/5 |
| C-229 | 9 | 0-6 | 10/5 | 10/5 |
| C-230 | 9 | 0-7 | 10/5 | 10/5 |
| C-231 | 6 | 0-4 | 10/5 | 10/5 |
| C-232 | 6 | 0-5 | 10/5 | 10/5 |
| C-233 | 18 | 0-15 | 10/5 | 10/5 |
| C-234 | 9 | 0-8 | 10/5 | 10/5 |

Probe Survey Cont.

| Hole no. | Total Depth | Probed Depth | Reading | Background |
|---|---|---|---|---|
| C-235 | 12 | 0-9 | 10/5 | 10/5 |
| C-236 | 9 | 0-7 | 10/5 | 10/5 |
| C-237 | 6 | 0-4 | 10/5 | 10/5 |
| C-238 | 36 | 0-34 | 10/5 | 10/5 |
| C-239 | 63 | 0-61 | 10/5 | 10/5 |
| C-240 | 39 | 0-37 | 10/5 | 10/5 |
| C-241 | 54 | 0-54 | 10/5 | 10/5 |
| C-242 | 48 | 0-46 | 10/5 | 10/5 |
| C-243 | 12 | 0-11 | 10/5 | 10/5 |
| C-244 | 18 | 0-14 | 10/5 | 10/5 |
| C-245 | 24 | 0-19 | 10/5 | 10/5 |
| C-246 | 15 | 0-14 | 10/5 | 10/5 |
| C-247 | 12 | 0-9 | 10/5 | 10/5 |
| C-248 | 54 | 0-53 | 10/5 | 10/5 |
| C-249 | 54 | 0-53 | 10/5 | 10/5 |
| C-250 | 51 | 0-14 | 10/5 | 10/5 |
| C-251 | 36 | 0-35 | 10/5 | 10/5 |
| C-252 | 36 | 0-32 | 10/5 | 10/5 |
| | | 32-33 | 25/5 | 10/5 |
| | | 33-34 | 25/5 | 10/5 |
| C-253 | 15 | 0-13 | 10/5 | 10/5 |
| C-254 | 15 | 0-14 | 10/5 | 10/5 |
| C-255 | 18 | 0-15 | 10/5 | 10/5 |
| ~~C-256~~ | ~~18~~ | ~~0-15~~ | ~~10/5~~ | ~~10/5~~ |
| ~~C-257~~ | ~~21~~ | ~~0-20~~ | ~~10/5~~ | ~~10/5~~ |
| C-258 | 15 | 0-11 | 10/5 | 10/5 |
| C-259 | 6 | 0-6 | 10/5 | 10/5 |
| C-260 | 36 | 0-34 | 10/5 | 10/5 |

Probe Survey Cont.

| Hole no. | Total Depth | Probed Depth | Reading | Background |
|---|---|---|---|---|
| ~~C-261~~ | ~~27~~ | ~~0-24~~ | ~~10/5~~ | ~~10/5~~ |
| ~~C-262~~ | ~~21~~ | ~~0-18~~ | ~~10/5~~ | ~~10/5~~ |
| C-263 | 9 | 0-8 | 10/5 | 10/5 |
| C-264 | 15 | 0-12 | 10/5 | 10/5 |
| C-265 | 54 | 0-8 | 10/5 | 10/5 |
| | | 8-9 | 28/5 | 10/5 |
| | | 9-10 | 30/5 | 10/5 |
| | | 10-11 | 20/5 | 10/5 |
| | | 11-12 | 20/5 | 10/5 |
| | | 12-13 | 20/5 | 10/5 |
| | | 13-14 | 38/5 | 10/5 |
| | | 14-15 | 30/5 | 10/5 |
| | | 15-16 | 32/5 | 10/5 |
| | | 16-17 | 24/5 | 10/5 |
| | | 17-18 | 30/5 | 10/5 |
| | | 18-19 | 40/5 | 10/5 |
| | | 19-20 | 50/5 | 10/5 |
| | | 20-21 | 40/5 | 10/5 |
| | | 21-22 | 30/5 | 10/5 |
| | | 22-51 | 10/5 | 10/5 |
| C-266 | 36 | 0-13 | 10/5 | 10/5 |
| | | 13-14 | 30/5 | 10/5 |
| | | 14-15 | 70/5 | 10/5 |
| | | 15-16 | 40/5 | 10/5 |
| | | 16-17 | 40/5 | 10/5 |
| | | 17-18 | 30/5 | 10/5 |
| | | 18-19 | 36/5 | 10/5 |

114 46? 2319 48? 2367

Probe Survey Cont.

| Hole no. | Total Depth | Probed Depth | Reading | Background |
|---|---|---|---|---|
| | | 19-20 | 30/5 | 10/5 |
| | | 20-21 | 20/5 | 10/5 |
| | | 21-25 | 20/5 | 10/5 |
| | | 25-26 | 40/5 | 10/5 |
| | | 26-27 | 30/5 | 10/5 |
| | | 27-28 | 30/5 | 10/5 |
| | | 28-29 | 30/5 | 10/5 |
| | | 30-33 | 20/5 | 10/5 |
| | | 33-34 | 34/5 | 10/5 |
| ~~C-267~~ | ~~36~~ | ~~0-34~~ | ~~10/5~~ | ~~10/5~~ |
| ~~C-268~~ | ~~18~~ | ~~0-16~~ | ~~10/5~~ | ~~10/5~~ |
| C-269 | 12 | 0-9 | 10/5 | 10/5 |
| C-270 | 15 | 0-15 | 10/5 | 10/5 |
| C-271 | 12 | 0-11 | 10/5 | 10/5 |
| C-272 | 33 | 0-27 | 12/5 | 10/5 |
| | | 27-28 | 20/5 | 10/5 |
| | | 28-29 | 40/5 | 10/5 |
| | | 29-30 | 30/5 | 10/5 |
| | | 30-31 | 20/5 | 10/5 |

MF-500

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

# REFERENCE SLIP

DATE 12/14/53

REFERRED TO:

Code 700

1. ~~Mr. Ebbis~~
2. ~~Mr. Lawrence~~
3. ~~Mr. Lawrence~~
4. Div. contract file

FOR:

| | |
|---|---|
| ..... Action | ..... Recommendation |
| ..... Approval | ..... Record |
| ..... Comment | of ..... |
| ..... Conference | ..... Referring |
| ..... Consideration | to ..... |
| ..... Filing | ..... Reply for signa- |
| ..... Instructions | ture of ..... |
| ..... Investigation | ..... Rewriting |
| ..... Initials | ..... Signature |
| ..... Mailing | ..... Suggestions |
| ..... Previous correspondence | ..... Your information |

REMARKS:

Mrs. Ault: The delay in getting this Interim Report out on time is due to the fact that Region didn't send enuf cys. We rqstd. addtn'l copies which weren't rec'd. until 12/11/53.

Iris

Check (X) before the items needing attention.

avail FT & operations final report before final letter

ROBERT E. ADAMS

*Initials of sender.*

GPO 16—63815-1

12-14-53

12/14/53 gla

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
Region V
2908 Colfax Avenue South
Minneapolis 8, Minnesota

November 24, 1953

Memorandum

To: Operating Committee, Defense Minerals Exploration Administration, Washington, D. C.

From: Executive Officer, Field Team, Region V

Subject: Docket 2857, Contract Idm-E-517, Ortmayer, Sullivan and Boyle

Here are the original and two copies of an Interim Report on the subject project, together with a copy of a memorandum from the Field Team regarding what was to be Amendment No. 1.

At the request of the operator, this office issued on October 19, 1953, a copy of an amendment which would permit drilling on the Ribsnorter No. 1 claim under Stage 1 instead of Stage 2. All copies of this amendment were sent to the operator on this date for signature.

The letter from the Field Team, dated November 20, indicates that the operator does not wish to proceed with the execution of this amendment, and that all the drilling that he wished to do under the terms of the contract has been done.

The Field Team's report authorizing the execution of Amendment No. 1 was made at the request of the operator, and they agreed to such an amendment because it was the only area remaining that seemed to warrant exploration and if success could be made they wished to give the operator every opportunity. As you can see from their memorandum, the drilling thus far has shown very little mineralization, and orebodies of a minable size or grade have not been indicated, even in the most favorable areas of the project.

If and when the copies of the proposed Amendment No. 1 are returned to this office they will be destroyed and we will consider that they were not written. We will proceed with the termination of the contract and a final report will be prepared as soon as possible.

A. B. NEEDHAM

Attachments

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 11 1953

pl
1/27/54

C O P Y

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

# DEFENSE MINERALS EXPLORATION ADMINISTRATION

## INTERIM REPORT

## REGION V

Ortmayer, Sullivan and Boyle

Fall River County, South Dakota

E. O. Binyon, Mining Engineer
U. S. Bureau of Mines

W. A. Braddock, Geologist
U. S. Geological Survey

October 12, 1953

A grid on 100 foot centers would be required and owing to the topography and geology depths of the holes would be variable. Laying out of the grid and determining the depth of individual holes would take close supervision.

Owing to extensive interests of the operator in the immediate and other areas in the district, the supervision of the project has not been entirely adequate and in the opinion of the field team it is doubtful that the operator could give proper supervision to the exploratory work in this area.

It is therefore recommended that the contract be amended to permit continuation of drilling under Phase I in the area on the Ripsnorter No. 1 claim and to drill the holes along the lines as shown on the map.

It is estimated that 1,300 to 1,500 feet of drilling will be required to explore this anomaly.

However, the amendment can be drawn to permit using any part or all of the footage remaining under Stage I if in the opinion of the field team it should be necessary. Should this drilling under the amendment, in areas other than outlined for Stage I under the contract, not result in a discovery then there would be no necessity to proceed with Stage II and the work could be terminated.

It is possible that additional geologic or other information may be brought out whereby exploration of the deeper horizons would be warranted. Should this be the case, then the drilling footage allotted under Stage II could be used. However, as stated, exploration at present should be confined to the anomaly on the Ripsnorter No. 1. The results of Stage I drilling to date indicate that the chances for a significant discovery are extremely limited, even in the shallower horizons, and it is not likely that the chances of finding an economic deposit at the greater depths would be increased.

The operators have not received the analyses of the samples through the mineralized section of the holes on the Schoonmaker No. 2 and Gerner's Folly.

Stage I will probably be completed within the week of October 18, 1953. In order to avoid any unnecessary delay it would be appreciated if the field team could be advised as to whether the work should continue under Stage I or that it should be done under Stage II.

700

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

DIVISION COPY

C. C. Ortmeyer, L. C. Sullivan,
and C. E. Doyle, Partners
Box 339
Pierre, South Dakota

NOV 3 1953

Re: Docket No. [illegible]-2257 (Uranium)
Contract No. [illegible]-517
Hip Carter and Parker Groups of claims
Fall River County, South Dakota

Gentlemen:

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. Mittendorf

Administrator

FLKnouse/cla
10-30-53
cc to: Docket File
Region V (2)
Division contract file

50811

F. L. Knouse

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
Region V
2908 Colfax Avenue South
Minneapolis 8, Minnesota

RECEIVED
OCT 30 1953

October 19, 1953

Memorandum

To: Files

From: Executive Officer, Field Team, Region V

Subject: Long-distance telephone call.

Boyle

A long-distance telephone call was made at 2:45 p.m., on October 15, 1953, to Mr. Knouse, DMEA uranium commodity specialist, to obtain verbal approval for an amendment to Docket DMEA-2857.

Since work under Stage 1 was to be completed October 18, 1953, the amendment to permit drilling in another area with unused funds required approval before October 18 so there would be no unnecessary delay in the drilling.

A. B. Needham
Executive Officer, Field Team
Region V

ABNeedham:vb
cc Region V
Files
ay Files
Regional Director, Region V
Director's Reading File
Mr. Knouse, DMEA

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D. C.~~
Region V
2908 Colfax Avenue South
Minneapolis 8, Minnesota

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 16 1953

October 14, 1953

Memorandum

To: Operating Committee, Defense Minerals Exploration Administration, Interior Building, Washington 25, D. C.

From: Executive Officer, Field Team, Region V

Subject: Operator's Monthly Report and Voucher for August 1953 Docket DMEA-2857, Contract Idm E-517, Sullivan, Ortmayer and Boyle

Here are two copies of the subject report, as processed for payment, for your files.

A. B. Needham
Executive Officer
Field Team, Region V

Att

cc: Dutton
Binyon (att-2)
Region V
Files
Day Files

Form MF-104 (Rev.)
(April 1952)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1036.3.
Approval expires 6-30-53.

RECEIVED

# OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of August, 1953 Docket No. DMEA-2857 Contract No. IDM-E517
Operator's Name R.G.Sullivan,C.G. Ortmayer & & C.R.Boyle Minerals Uranium
Address Box 330, Edgemont, South Dakota
Contract Amount, $13,400.00 * Government Participation: 90 % Amount, $ 12,060.00 *

| ITEMS OF COSTS | FOR OPERATOR'S USE | | | FOR GOVERNMENT USE ONLY | | |
|---|---|---|---|---|---|---|
| | Monthly Total | Totals Previously Reported | Totals To Date | Approved Monthly Total | Approved Totals Previously Reported | Approved Totals To Date |
| (1) ~~Independent~~ Short Form Contracts: | | | | | | |
| Drilling Wagon Drill | 3211.52 | 3242.20 | 6453.72 | 3,211.52 | 3,242.20 | 6,453.72 |
| Bulldozing | | | | | | |
| Crosscutting | | | | | | |
| Drifting | | | | | | |
| (2) Labor and Supervision: | | | | | | |
| Labor | | | | | | |
| Supervision | | | | | | |
| Technical Services | | | | | | |
| (3) Operating Mat'ls. and Supplies: | | | | | | |
| Timber | | | | | | |
| Explosives | | | | | | |
| Pipe | | | | | | |
| Track | | | | | | |
| (4) Operating Equipment: | | | | | | |
| Rental | | | | | | |
| Purchase | | | | | | |
| Depreciation | | | | | | |
| (5) Initial Rehabilitation and Repairs | | | | | | |
| (6) New Bldgs., Improvements, etc. | | | | | | |
| (7) Miscellaneous: | | | | | | |
| Repairs to Equipment | | | | | | |
| Sampling and Analysis | | | | | | |
| Payroll Taxes | | | | | | |
| Liability Insurance | | | | | | |
| (8) Contingencies (specify): | | | | | | |
| TOTALS | 3211.52 | 3242.20 | 6453.72 | 3,211.52 | 3,242.20 | 6,453.72 |

I certify that the above bill is correct and just and that payment therefor has not been received.
Date 10/6/53 *Payee C.G.Ortmayer R.G.Sullivan & C.R.Boyle
Per C.R.Boyle Title Manager

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—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.

(Instructions on reverse)

* Phase I only.

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 2890.37 ~~76~~

Signature L.A. Hill
(Authorized Certifying Officer)

Date OCT 14 1953 Vou. No. 10
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. Tom-2517 in accordance with the terms of the contract.

Signature E O Bunyon Title Mining Engineer Date October 8, 1953

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature E. B. Needham Title Ex Off Date 10/12/53

# MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(*a*) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(*b*) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(*c*) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

*Preparation of Form MF-104—Operator's Monthly Report and Voucher.*—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

GPO 83-38476

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151
Approval expires 6-30-53.

# UNITED STATES
# DEPARTMENT OF THE INTERIOR

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 10 1953

## DEFENSE MINERALS EXPLORATION ADMINISTRATION

## OPERATOR'S UNIT COST AND PROGRESS REPORT

10

Month of August 195 3 Docket No. DMEA-2857 Contract No. IDM-517
Operator's Name C.G. Ortmayer, R.G.Sullivan & C.R.Boyle Minerals Uranium
Address Box 330, Edgemont, South Dakota

| OPERATION | Unit | Costs This Month | Units This Month | Costs to Date | Units to Date | Unit Costs to Date | Authorized by Contract: Units | Authorized by Contract: Unit Costs |
|---|---|---|---|---|---|---|---|---|
| Drifting | | | | | | | | |
| Crosscutting | | | | | | | | |
| Raising | | | | | | | | |
| Shafts | | | | | | | | |
| Winzes | | | | | | | | |
| Drilling: Core | | | | | | | | |
| ~~Churn~~ Wagon | Ft. | 3211.52 | 3088 | 6453.72 | 6205.5 | 1.04 | 12,000 | 13,400.00* |
| Auger | | | | | | | 24,000 | 24,845.00** |
| Stripping | | | | | | | | |
| Trenching | | | | | | | | |
| Test Pits | | | | | | | | |
| Roads and Trails | | | | | | | | |
| Total Distributed Costs | | 3,211.52 | | 6,453.72 | | | | Total Costs Authorized by Contract |
| Operating Equipment Purchased | | ---- | | ---- | | | | ---- |
| Initial Rehabilitation and Repairs | | ---- | | ---- | | | | ---- |
| New Buildings, Improvements, etc. | | ---- | | ---- | | | | ---- |
| Total Costs | | 3211.52 | | 6453.72 | | | | 38,945.00 |

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

Date October 6, 1953 Operator C.G. Ortmayer R.G. Sullivan & C.R. Boyle

Per C.R. Boyle Title Manger

Remarks: * Phase I, ** Phase II

→ NOTE.—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.

(Instructions on reverse)

(For Government use only)

## INSTRUCTIONS

*Preparation of Form MF–104A—Operator's Unit Cost and Progress Report.*—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF–104A has been designed to tie in with Form MF–104 for both monthly and cumulative costs. The "Total Costs" on Form MF–104A for each month should equal the monthly "Total Costs" as reported on Form MF–104. This is also true of the "Total Costs To Date".

In preparing Form MF–104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 83-38475

WAGON DRILLING EXPLORATIVE
for
AUGUST, 1953

DMEA
Docket No. 2857
Contract No. IDX-5517

Claims:
Schoonmaker No. 1
Schoonmaker No. 2
Gerner's Folly
Montana No. 1 & No. 2

Exploration under DMEA Docket No.-2857, Contract No.-IDX-5517 was continued through August, 1953; the method of drilling being the same as reported in this report for June and July, 1953.

This report covers holes # C-81 through # C-183 with the exception of 5 holes: # C-152, C-153, C-154, C-155 & C-173 which were drilled outside the property covered by this contract and are not reported in this narrative or in Forms MF 104 & 104A.

Areas drilled during August are located in Block 2 & Block 1, Exhibit B the location of the holes being shown on map #DX-54 attached.

All of the areas drilled showed surface anomalies on the Scintillator. The results of the Probe Survey show definite radioactivity in Holes # C-89, # C-104 & # C-180. Samples were taken at 1' intervals from these holes and have been sent to the Livingston Uranium Company, Edgemont, South Dakota for assay. Samples were also taken from Holes # C-84, # C-86, # C-102, # C-103, # C-106, # C-163, # C-172, & # C-179. Although the probe survey does not show radioactivity in these holes the samples caught by the DuClone showed radioactivity on the counter of enough intensity to warrant assaying. There are no assay results yet.

Caving was noticeable in nearly all of the holes and particularly bad in some holes on the Montana No. 1. In several instances the drill was unable to go deeper than 10'. This is due to the presence of a wet, sticky shale that will not permit blowing the hole.

A total of 3319' was drilled in 22 drill shifts. This is an average of 150.9 feet per shift and is considerably below the expected average of 200' per shift. The writer believes this is due mainly to the abundance of moist shales encountered so far in these areas. Drilling performed last year in nearby ground did not encounter shales with as high a moisture content and produced the expected average of 200' per shift. The operator is not the same man that drilled last year and this definitely has some bearing on the footage drilled.

TROJAN DIVISION OF MASON DRILL METAL

DMSA
Docket No. 2837
Contract No. IDM-5217

Claims
Schoonmaker #1
Schoonmaker #2
Gerner's Folly
Montana # 1 & #2

August, 1953

| Hole No. | Depth Drilled Ft. | Probed Depth Ft. | Reading | Background |
|---|---|---|---|---|
| C-81 | 27 | 0-18 | 2/5 | 2/5 |
| C-82 | 30 | 0-13 | 2/5 | 2/5 |
| C-83 | 33 | 0-12 | 2/5 | 2/5 |
| C-84 | 33 | 0-12 | 2/5 | 2/5 |
| | | 12-16 | 4/5 | 2/5 |
| | | 16-24 | 10/5 | 2/5 |
| C-85 | 21 | 0-9 | 2/5 | 2/5 |
| C-86 | 27 | 0-21 | 2/5 | 2/5 |
| C-87 | 30 | 0-14 | 2/5 | 2/5 |
| C-88 | 21 | 0-20 | 2/5 | 2/5 |
| C-89 | 51 | 0-17 | 2/5 | 2/5 |
| | | 17-21 | 12/5 | 2/5 |
| | | 21-22 | 20/5 | 2/5 |
| | | 22-23 | 75/5 | 2/5 |
| | | 23-24 | 54/5 | 2/5 |
| | | 24-25 | 24/5 | 2/5 |
| | | 25-30 | 12/5 | 2/5 |
| | | 30-36 | 22/5 | 2/5 |
| | | 36-46 | 2/5 | 2/5 |
| C-90 | 36 | 0-33 | 4/5 | 4/5 |
| C-91 | 30 | 0-30 | 4/5 | 4/5 |
| C-92 | 33 | 0-29 | 4/5 | 4/5 |
| C-93 | 21 | 0-23 | 4/5 | 4/5 |

SPECIAL SURVEY CONT.
(2)

| Hole No. | Depth Drilled Ft. | Probed Depth Ft. | Reading | Background |
|---|---|---|---|---|
| C-94 | 33 | C-23 | 4/5 | 4/5 |
| C-95 | 21 | C-47 | 4/5 | 4/5 |
| C-96 | 36 | C-33 | 4/5 | 4/5 |
| C-97 | 69 | C-66 | 4/5 | 4/5 |
| C-98 | 36 | C-34 | 4/5 | 4/5 |
| C-99 | 36 | C-21 | 4/5 | 4/5 |
| C-100 | 30 | C-26 | 4/5 | 4/5 |
| C-101 | 20 | C-17 | 4/5 | 4/5 |
| C-102 | 26 | C-4 | 2/5 | 4/5 |
| | | 4-19 | 8/5 | 4/5 |
| | | 19-20 | 13/5 | 4/5 |
| | | 20-21 | 22/5 | 4/5 |
| | | 21-22 | 12/5 | 4/5 |
| C-103 | 33 | C-33 | 4/5 | 4/5 |
| C-104 | 27 | C-6 | 4/5 | 4/5 |
| | | 6-7 | 8/5 | 4/5 |
| | | 7-8 | 20/5 | 4/5 |
| | | 8-9 | 30/5 | 4/5 |
| | | 9-10 | 65/5 | 4/5 |
| | | 10-14 | 10/5 | 4/5 |
| | | 14-20 | 2/5 | 4/5 |
| C-105 | 24 | C-21 | 4/5 | 4/5 |
| C-106 | 25 | C-22 | 4/5 | 4/5 |
| C-107 | 15 | C-10 | 4/5 | 4/5 |
| C-108 | 33 | C-31 | 28/5 | 28/5 |
| C-109 | 9 | C-6 | 27/5 | 29/5 |

CROSS DRAIN CONT.
(3)

| Hole No. | Depth Drilled Ft. | Probed Depth Ft. | Reading | Background |
|---|---|---|---|---|
| C-110 | 9 | 0-7 | 28/5 | 28/5 |
| C-111 | 36 | 0-33 | 26/5 | 28/5 |
| C-112 | 36 | 0-34 | 28/5 | 28/5 |
| C-113 | 33 | 0-27 | 25/5 | 28/5 |
| C-114 | 33 | 0-31 | 28/5 | 28/5 |
| C-115 | 10 | 0-8 | 30/5 | 28/5 |
| C-116 | 30 | 0-29 | 28/5 | 28/5 |
| C-117 | 30 | 0-28 | 26/5 | 28/5 |
| C-118 | 30 | 0-28 | 28/5 | 28/5 |
| C-119 | 33 | 0-21 | 4/5 | 4/5 |
| C-120 | 12 | 0-6 | 4/5 | 4/5 |
| C-121 | 36 | 0-33 | 4/5 | 4/5 |
| C-122 | 13 | 0-12 | 4/5 | 4/5 |
| C-123 | 54 | 0-52 | 4/5 | 4/5 |
| C-124 | 39 | 0-37 | 4/5 | 4/5 |
| C-125 | 12 | 0-9 | 4/5 | 4/5 |
| C-126 | 36 | 0-35 | 4/5 | 4/5 |
| C-127 | 84 | 0-40 | 4/5 | 4/5 |
| C-128 | 36 | 0-34 | 4/5 | 4/5 |
| C-129 | 36 | 0-35 | 4/5 | 4/5 |
| C-130 | 36 | 0-34 | 4/5 | 4/5 |
| C-131 | 18 | 0-14 | 26/5 | 28/5 |
| C-132 | 54 | 0-50 | 30/5 | 30/5 |
| C-133 | 30 | 0-28 | 30/5 | 30/5 |
| C-134 | 30 | 0-27 | 30/5 | 30/5 |
| C-135 | 18 | 0-15 | 30/5 | 30/5 |
| C-136 | 36 | 0-35 | 30/5 | 30/5 |

GROUND SURVEY COST.
(4)

| Hole No. | Depth Drilled Ft. | Probed Depth Ft. | Reading | Background |
|---|---|---|---|---|
| C-137 | 15 | 0-13 | 35/5 | 30/5 |
| C-138 | 9 | 0-3 | 30/5 | 30/5 |
| C-139 | 34 | 0-28 | 30/5 | 30/5 |
| C-140 | 30 | 0-26 | 30/5 | 30/5 |
| C-141 | 36 | 0-34 | 30/5 | 30/5 |
| C-142 | 36 | 0-34 | 30/5 | 30/5 |
| C-143 | 54 | 0-52 | 30/5 | 30/5 |
| C-144 | 15 | 0-14 | 30/5 | 30/5 |
| C-145 | 33 | 0-3 | 30/5 | 30/5 |
| C-146 | 30 | 0-25 | 26/5 | 30/5 |
| C-147 | 39 | 0-37 | 28/5 | 30/5 |
| C-148 | 30 | 0-20 | 30/5 | 30/5 |
| C-149 | 18 | 0-15 | 30/5 | 30/5 |
| C-150 | 21 | 0-20 | 30/5 | 30/5 |
| C-151 | 12 | 0-9 | 30/5 | 30/5 |
| C-156 | 6 | 0-3 | 18/5 | 18/5 |
| C-157 | 15 | 0-9 | 18/5 | 18/5 |
| C-158 | 6 | 0-5 | 18/5 | 18/5 |
| C-159 | 9 | 0-9 | 18/5 | 18/5 |
| C-160 | 3 | 0-2 | 18/5 | 18/5 |
| C-161 | 9 | 0-4 | 18/5 | 18/5 |
| C-162 | 36 | 0-31 | 20/5 | 20/5 |
| C-163 | 72 | 0-53 | 20/5 | 20/5 |
| C-164 | 33 | 0-29 | 20/5 | 20/5 |
| C-165 | 21 | 0-1 | 20/5 | 20/5 |
| C-166 | 60 | 0-58 | 20/5 | 20/5 |
| C-167 | 9 | 0-6 | 20/5 | 20/5 |

GROUP SURVEY SHEET.
(2)

| Hole No. | Depth Drilled Ft. | Probed Depth Ft. | Reading | Background |
|---|---|---|---|---|
| C-168 | 69 | 0-67 | 20/5 | 20/5 |
| C-169 | 60 | 0-3 | 20/5 | 20/5 |
| C-170 | 60 | 0-60 | 20/5 | 20/5 |
| C-171 | 60 | 0-56 | 22/5 | 22/5 |
| C-172 | 60 | 0-58 | 22/5 | 22/5 |
| C-174 | 36 | 0-33 | 22/5 | 22/5 |
| C-175 | 39 | 0-36 | 22/5 | 22/5 |
| C-176 | 39 | 0-37 | 22/5 | 22/5 |
| C-177 | 18 | 0-13 | 22/5 | 22/5 |
| C-178 | 9 | 0-5 | 22/5 | 22/5 |
| C-179 | 18 | 0-17 | 22/5 | 22/5 |
| C-180 | 27 | 0-24 | 22/5 | 22/5 |
| | | 24-30 | 26/5 | 22/5 |
| | | 30-35 | 31/5 | 22/5 |
| | | 35-38 | 42/5 | 22/5 |
| | | 38-41 | 52/5 | 22/5 |
| | | 41-42 | 58/5 | 22/5 |
| | | 42-43 | 60/5 | 22/5 |
| | | 43-44 | 60/5 | 22/5 |
| | | caved | | |
| C-181 | 12 | 0-11 | 22/5 | 22/5 |
| C-182 | 9 | 0-3 | 22/5 | 22/5 |
| C-183 | 18 | 0-14 | 22/5 | 22/5 |

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D.C.~~
Region V
2908 Colfax Avenue South
Minneapolis 8, Minnesota

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
SEP 28 1953

September 24, 1953

Memorandum

To: Operating Committee, Defense Minerals Exploration Administration, Interior Building, Washington 25, D. C.

From: Executive Officer, Field Team, Region V

Subject: Operator's Monthly Report and Voucher for June-July 1953 Docket DMEA-2857, Idm E-517, Ortmayer, Sullivan & Boyle Edgemont, S. Dak.

Here are two copies of the subject report, as processed for payment, for your files.

A. B. Needham
Executive Officer, Field Team
Region V

Attachments - 2

cc: Dutton
Binyon (att)
Region V
Files
Day Files

Form MF-104 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.3.
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
SEP 28 1953

# OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of June & July 195 3 Docket No. DMEA -2857 Contract No. IDM-E 517

Operator's Name C. G. Ortmayer, R. G. Sullivan & C. R. Boyle Minerals Uranium

Address Box 330, Edgemont, South Dakota

Contract Amount, $ 13,400.00 Government Participation: 90% Amount, $ 12,060.00

| ITEMS OF COSTS | FOR OPERATOR'S USE: Monthly Total | Totals Previously Reported | Totals To Date | FOR GOVERNMENT USE ONLY: Approved Monthly Total | Approved Totals Previously Reported | Approved Totals To Date |
|---|---|---|---|---|---|---|
| (1) Independent Contracts 6/53 | 387.92 | ----- | $ 387.92 | 387.92 | --- | 387.92 |
| Short Form Contracts 7/53 | 2,854.28 | ---- | 2,854.28 | 2,854.28 | --- | 2,854.28 |
| Wagon Drill | | | | | | |
| Drilling | | | | | | |
| Bulldozing | | | | | | |
| Crosscutting | | | | | | |
| Drifting | | | | | | |
| (2) Labor and Supervision: | | | | | | |
| Labor | | | | | | |
| Supervision | | | | | | |
| Technical Services | | | | | | |
| (3) Operating Mat'ls. and Supplies: | | | | | | |
| Timber | | | | | | |
| Explosives | | | | | | |
| Pipe | | | | | | |
| Track | | | | | | |
| (4) Operating Equipment: | | | | | | |
| Rental | | | | | | |
| Purchase | | | | | | |
| Depreciation | | | | | | |
| (5) Initial Rehabilitation and Repairs | | | | | | |
| (6) New Bldgs., Improvements, etc. | | | | | | |
| (7) Miscellaneous: | | | | | | |
| Repairs to Equipment | | | | | | |
| Sampling and Analysis | | | | | | |
| Payroll Taxes | | | | | | |
| Liability Insurance | | | | | | |
| (8) Contingencies (specify): | | | | | | |
| TOTALS | 3,242.20 | --- | 3,242.20 | 3,242.20 | --- | 3,242.20 |

I certify that the above bill is correct and just and that payment therefor has not been received.

Date 8/13/53 *Payee C. G. Ortmayer, R. G. Sullivan, C. R. Boyle

Per C. R. Boyle Title Mgr.

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—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.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 2917.98 AG

Signature L. A. Hee
(Authorized Certifying Officer)

Date SEP 22 1953 Vou. No. 8
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. Idm E-517 in accordance with the terms of the contract.

Signature E O Bunyon Title Mining Engineer Date August 26, 1953

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature C B Wedham Title Ex Off Date 9/24/53

# MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

*Preparation of Form MF-104—Operator's Monthly Report and Voucher.*—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

U. S. GOVERNMENT PRINTING OFFICE 205675

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151
Approval expires 6-30-53.

# UNITED STATES
# DEPARTMENT OF THE INTERIOR

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
SEP 28 1953

8

## DEFENSE MINERALS EXPLORATION ADMINISTRATION

## OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of June & July 3 Docket No. DMEA -2857 Contract No. IDM- E 517
Operator's Name C. G. Ortmayer, R.G.Sullivan & C. R. Boyle Minerals Uranium
Address Box 330, Edgemont, South Dakota

| OPERATION | UNIT | COSTS THIS MONTH | UNITS THIS MONTH | COSTS TO DATE | UNITS TO DATE | UNIT COSTS TO DATE | AUTHORIZED BY CONTRACT Units | AUTHORIZED BY CONTRACT Unit Costs |
|---|---|---|---|---|---|---|---|---|
| Drifting | | | | | | | | |
| Crosscutting | | | | | | | | |
| Raising | | | | | | | | |
| Shafts | | | | | | | | |
| Winzes | | | | | | | | |
| Drilling: Core | | | | | | | | |
| Churn ---- Wagon | Ft. | 3242.20 | 3117.5 | 3242.20 | 3117.5 | 3242.20 | 12,[illegible] | [illegible]. 13,400.00 |
| Auger | | | | | | | | |
| Stripping | | | | | | | | |
| Trenching | | | | | | | | |
| Test Pits | | | | | | | | |
| Roads and Trails | | | | | | | | |
| TOTAL DISTRIBUTED COSTS | | 3242.20 | | 3242.20 | | | | TOTAL COSTS AUTHORIZED BY CONTRACT |
| Operating Equipment Purchased | | -- | | -- | | | | -- |
| Initial Rehabilitation and Repairs | | -- | | -- | | | | -- |
| New Buildings, Improvements, etc. | | -- | | -- | | | | -- |
| TOTAL COSTS | | 3242.20 | | 3242.20 | | | | 38,945.00 ** |

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

Date 8/13/45 53 Operator C. G. Ortmayer, R. G. Sullivan & C. R. Boyle By: C. R. Boyle

Per C. R. Boyle Title Manager

C.R. Boyle

NOTE.—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.

(Instructions on reverse)

REMARKS: *Stage I $15,400.00
Stage II $25,545.00
** Total $ 38,945.00
Drilling footage Stage I 12,800 ft & Stage II 24,500 ft. Unit price Stage I $1.04 and 100 samples @ $4.00 Stage II unit price $1.01 and 500 samples @ $4.00.

(For Government use only)

## INSTRUCTIONS

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U. S. GOVERNMENT PRINTING OFFICE 205676

DEPARTMENT OF THE INTERIOR
Bureau of Mines Information
RECEIVED
PITTSBURGH



# WAGON DRILLING NARRATIVE
# for
# JUNE and JULY, 1953

DMEA
Docket No. 2857
Contract No IDM-S 517

Claims:
Schoonmaker No. 1
Schoonmaker No. 2
Gerner's Folly

Exploration under DMEA Docket No. 2857, Contract No. IDM-S 517 was begun in June. As proposed in the application for this contract the drilling was let to Minerals Enginneering Co. of Grand Junction, Colo. who provided a standard type of "Wagon Drill" mounted on a "half-track" carrier

Since only nine holes were drilled in the month of June this report is made to cover the work done in June and July, beginning with Hole #C-1 and ending with #C-81. These holes were located in "Block 2, Exhibet B" on Schoonmaker No. 1, Schoonmaker No. 2 and Gerner's Folly claims. The hole pattern is a staggered grid with spacing of 100 feet in the North-South direction and 50 feet in the East-West direction. The pattern was laid out to prospect back from the anomolous rim area on Schoonmaker Claim No. 1, and also to prospect the same horizon on Gerner's Folly close to the rim. Aside from the slight anomoly on Schoonmaker No. 1 there was no other radio active evidence on which to base the location. The principle idea being to prospect the favorable horizon. The location of the completed holes is shown on the accompanying map No. DM-3. There is also attached a tabulation of the results of the Probe Survey of these holes. The Probe Survey does not cover the total drilled depth of the hole. This difference is due to caving which was encountered in nearly all of the holes, in amounts varying from 1 foot to 13 feet. The caving evidently occurs when pulling out from the bottom of the hole. The three foot samples caught during the drilling give indications for the reported total depth.

The drilling procedure is to start holes with a 3 inch dia. bit which is run down about 3 feet to gett thru any loose topsoil, next a short section of 2½ inch pipe is inserted to prevent surface caving and provide a good connection for the sample collector. Then drilling is resumed with a 2⅝ inch diameter Tungsten Carbide cross bit. The drilling is done dry and the cuttings are collected by a Du Clone Sampler which is emptied every 3 feet drilled, the samples being put in a sack and labeled.

These samples are tested by a scintillometer and any showing mineralization are re-checked with a Geiger counter. When mineralization is sufficient to regester on the No. 4 scale of the Babbel Geiger Counter the sample will be sent to the laboratory for assay. All holes are given an additional check with a Geiger probe. The results of this probe survey and the drillers log, reported daily, are filed in the office for a permanent record.

Drilling results in the period covered by this report were unsatisfactory. No mineralization was encountered in any of the eighty-two holes. Previous experience in the immediate vicinity indicated that very spotty distribution of ore might be expected; therefore it seemed advisable to continue drilling across the entire zone covered in Schoonmaker No. 1 even after a number of holes had shown no mineralization.

The drilling contractor has encountered considerable trouble getting holes thru the shale bed encountered at approximately 30 feet depth and another in the deeper holes at about 40 feet. These shales are very moist and sticky and a continual source of delays form stuck steel. It appears that under these conditions there can be little profit for him at the contracted price of $.75/foot. We do not however, have his cost figures, therefore are unable to submit details

of the direct costs of this drilling.

Drilling is being continued Eastward on Gerner's Folly, Schoemmaker No. 2 and Katie Peak No. 2.Claims.

Clyde Boyle

# PROBE SURVEY of WAGON DRILL HOLES

DMEA
Docket no. 2857
Contract no. IDM-E 517

Claims
Schoonmaker #1
Schoonmaker #2
Gerner's Polly

June, 1953

| Hole No. | Depth | Reading | Background |
|---|---|---|---|
| C-1 | 83 to 0 | 4/5 | 4/5 |
| C-2 | 17 to 0 | 4/5 | " |
| C-3 | 20 to 0 | 4/5 | " |
| C-4 | 43 to 0 | 4/5 | " |
| C-5 | 38 to 0 | 4/5 | " |
| C-6 | 30 to 27 | 10/5 | " |
| | 27 to 0 | 4/5 | |
| C-7 | 13 to 0 | 4/5 | 4/5 |
| C-7-1 | 30 to 0 | 4/5 | " |
| C-8 | 30 to 0 | 4/5 | " |
| C-9 | 44 to 43 | 8/5 | " |
| | 43 to 0 | 4/5 | |
| | July, 1953 | | |
| C-10 | 21 to 0 | 4/5 | 4/5 |
| C-11 | | | " |
| C-12 | 5 to 0 | 4/5 | " |
| C-13 | 25 to 0 | 4/5 | " |
| C-14 | | | " |
| C-15 | 27 to 10 | 4/5 | " |
| | 10 to 8 | 8/5 | |
| | 8 to 0 | 8/5 | |
| C-16 | 32 to 17 | 4/5 | 4/5 |
| | 17 to 11 | 6/5 | |
| | 11 to 0 | 4/5 | |

Probe Survey cont.
(2)

| Hole no. | Depth | Reading | Background |
|---|---|---|---|
| C-17 | 26 to 0 | 4/5 | 4/5 |
| C-18 | 27 to 23 | 10/5 | " |
| | 23 to 17 | 4/5 | |
| | 17 to 13 | 16/5 | |
| | 13 to 10 | 10/5 | |
| | 10 to 8 | 12/5 | |
| | 8 to 0 | 4/5 | |
| C-19 | 21 to 0 | 4/5 | 4/5 |
| C-20 | 26 to 0 | 4/5 | " |
| C-21 | 45 to 0 | 4/5 | " |
| C-22 | 30 to 0 | 4/5 | " |
| C-23 | 23 to 0 | 4/5 | " |
| C-24 | 24 to 0 | 4/5 | " |
| C-25 | 5 to 0 | 4/5 | " |
| C-26 | 8 to 0 | 4/5 | " |
| C-27 | 13 to 0 | 4/5 | " |
| C-28 | 30 to 0 | 4/5 | " |
| C-29 | 46 to 29 | 4/5 | " |
| | 29 to 28 | 6/5 | |
| | 28 to 0 | 4/5 | |
| C-30 | 29 to 0 | 4/5 | 4/5 |
| C-31 | 31 to 0 | 4/5 | " |
| C-32 | 28 to 0 | 4/5 | " |
| C-33 | 34 to 0 | 2/5 | 2/5 |
| C-34 | 20 to 0 | 2/5 | " |
| C-35 | 28 to 0 | 2/5 | " |
| C-36 | 25 to 0 | 2/5 | " |

Probe Survey cont.
(3)

| Hole no. | Depth | Reading | Background |
|---|---|---|---|
| C-37 | 38 to 0 | 2/5 | 2/5 |
| C-38 | 26 to 0 | 2/5 | " |
| C-39 | 27 to 0 | 2/5 | " |
| C-40 | 56 to 0 | 2/5 | " |
| C-41 | 26 to 0 | 2/5 | " |
| C-42 | 27 to 0 | 2/5 | " |
| C-43 | 25 to 0 | 2/5 | " |
| C-44 | 46 to 0 | 2/5 | " |
| C-45 | 27 to 0 | 2/5 | " |
| C-46 | 27 to 0 | 4/5 | 4/5 |
| C-47 | 29 to 0 | 4/5 | " |
| C-48 | 26 to 0 | 4/5 | " |
| C-49 | 30 to 0 | 4/5 | " |
| C-50 | 27 to 0 | 4/5 | " |
| C-51 | 37 to 0 | 4/5 | " |
| C-52 | 33 to 0 | 4/5 | " |
| C-53 | 34 to 0 | 4/5 | " |
| C-54 | 17 to 0 | 4/5 | " |
| C-55 | 30 to 0 | 4/5 | " |
| C-56 | 28 to 0 | 4/5 | " |
| C-57 | 40 to 0 | 4/5 | " |
| C-58 | 41 to 0 | 4/5 | " |
| C-59 | 29 to 0 | 4/5 | " |
| C-60 | 27 to 0 | 4/5 | " |
| C-61 | 33 to 0 | 4/5 | " |
| C-62 | 28 to 0 | 4/5 | " |

Probe Survey cont.
(4)

| Hole no. | Depth | Reading | Background |
|---|---|---|---|
| C-63 | 31 to 0 | 4/5 | 4/5 |
| C-64 | 30 to 0 | 4/5 | " |
| C-65 | 36 to 0 | 2/5 | 2/5 |
| C-66 | 29 to 0 | 2/5 | " |
| C-67 | 27 to 0 | 2/5 | " |
| C-68 | 22 to 0 | 2/5 | " |
| C-69 | 31 to 0 | 2/5 | " |
| C-70 | 33 to 0 | 2/5 | " |
| C-71 | 37 to 0 | 2/5 | " |
| C-72 | 30 to 0 | 2/5 | " |
| C-73 | 27 to 0 | 2/5 | " |
| C-74 | 18 to 0 | 2/5 | " |
| C-75 | 28 to 27 | 8/5 | " |
| | 27 to 25 | 10/5 | |
| | 25 to 23 | 20/5 | |
| | 23 to 22 | 18/5 | |
| | 22 to 20 | 12/5 | |
| | 20 to 16 | 8/5 | |
| | 16 to 9 | 4/5 | |
| | 9 to 0 | 2/5 | |
| C-76 | 21 to 19 | 8/5 | 2/5 |
| | 19 to 16 | 6/5 | |
| | 16 to 0 | 2/5 | |
| C-77 | 19 to 15 | 10/5 | 2/5 |
| | 15 to 14 | 15/5 | |

Probe Survey cont.
(5)

| Hole no. | Depth | Reading | Background |
|---|---|---|---|
| C-77cont. | 14 to 13 | 30/5 | 2/5 |
| | 13 to 12 | 25/5 | |
| | 12 to 11 | 12/5 | |
| | 11 to 8 | 8/5 | |
| | 8 to 4 | 4/5 | |
| | 4 to 0 | 2/5 | |
| C-78 | 21 to 0 | 2/5 | 2/5 |
| C-79 | 21 to 0 | 2/5 | " |
| C-80 | 17 to 0 | 2/5 | " |
| C-81 | 18 to 13 | 6/5 | " |
| | 13 to 10 | 8/5 | |
| | 10 to 0 | 2/5 | |

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D.C.~~
Region V
[illegible] Hulfex Avenue South
Minneapolis 5, Minnesota

[illegible] 19[illegible]3

Memorandum

To: Over tin Committee, Defense Minerals Exploration Administration, Interior Building, Washington 25, D. C.

From: Executive Officer, Field Team, Region V

Subject: Docket [illegible]-2557, Contract [illegible]-517, Ortmayer, Sullivan, and Doyle

Here are the government, docket, and division copies of the subject contract, duly executed.

One copy has been retained by each of the following:

Operator, Mineral Finance Section, Field Team office.

[illegible] D. Newman
Executive Officer, Field Team
Region V

Attachments

MF-200 (A)
(February 1952)

DOCKET NO. DMEA 2857

COMMODITY Uranium

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

# EXPLORATION PROJECT CONTRACT[1]
(Short Form)

IT IS AGREED this ..... day of ....., 195..., between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and[2] C. G. Ortmayer, R. G. Sullivan and C. R. Boyle - Partners
Box 330
Edgement, South Dakota

hereinafter called the "Operator," as follows:

ARTICLE 1. *Authority for contract.*—This agreement is entered into under the authority of the Defense Production Act of 1950, as amended, pursuant to DMEA Order 1 entitled "Government Aid in Defense Exploration Projects."

ARTICLE 2. *Operator's property rights.*—With respect to that certain land situated in the State of South Dakota, County of Fall River, described as follows:[3] Known as the Rip Snorter and Parker Group of claims, and consists of the property described on Annex I and shown on maps Exhibit "B" and Exhibit "C" attached and made a part of this contract. The property area marked on Map Exhibit B "Area Previously Drilled" is not subject to the repayment provisions in Article 6 of this contract.

the Operator represents and undertakes:[4]

(*a*) ~~That the Operator is a lessee, in possession and entitled to possession, and the Owner's Consent to Lien is attached.~~

(*b*) That the Operator is a lessee, in possession and entitled to possession, and the ~~Owner's~~ OWNERS' Consent to Lien ~~is~~ are attached.

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.

ARTICLE 3. *Exploration project.*—The Operator, within ..... days from the date of this contract shall commence work on a project of exploration for[5] Uranium

in or upon the described land; and shall bring the project to completion within a period of 12 months from the date of this contract. The work to be performed is more fully described in Exhibit "A" attached hereto, which, with any maps or drawings thereto attached, are made a part of this contract. The Government will contribute to the cost of this work as hereafter provided. The work shall be performed by the Operator or by independent contractor or contractors efficiently, expertly, in a workmanlike manner, in accordance with good mining standards and State regulations for health and safety and for workmen's compensation and employers' liability insurance, with suitable and adequate equipment, materials, and labor, to bring the project to completion within the time fixed. 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.

ARTICLE 4. *Costs of the project.*—The agreed, estimated costs of performing the work, expressed in terms of units of work to be performed (per foot of drifting, per foot of drilling, per cubic yard of material to be moved, etc.) are set forth in Exhibit "A," attached hereto. The Government will pay 90 percent of these agreed, estimated costs, as they accrue, for units of work actually performed that conform with the description or specifications for the work set forth in this contract, in an aggregate total amount not in excess of $35.050.50 which is 90 percent of $38,945.00 the agreed, estimated total cost of the project in which the Government will participate: *Provided,* That until the Operator's final report and final accounting have been rendered to the Government and any final check or auditing required by the Government has been made, and a final settlement of the contract has been made, the Government may withhold from the last voucher or vouchers such sums as it sees fit not in excess of ten (10) percent of the maximum total which the Government might have been called upon to pay under the terms of the contract. The Government may, as it sees fit, make payments direct to the Operator's independent contractors, if any, for the account of the Operator, rather than to the Operator.

ARTICLE 5. *Reports, accounts, audits.*—(*a*) *Progress reports.* The Operator shall provide the Government with monthly reports of units of work performed under the contract, in quintuplicate (five copies), upon forms provided by the Government. These progress reports shall be certified by the Operator, and shall constitute both the Operator's invoice of units of work performed on the project during the period covered by the report and his voucher for repayment by the Government, unless the Government requires the use of a standard voucher form with invoice attached. Progress reports shall include surface and/or underground engineering-geological maps or sketches showing the progress of the exploration, with assay-reports on samples taken concurrently with the advance in mineralized ground.

[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, particularly excluding any land or interest therein to which the Government's lien is not to attach or the production from which is not to be subject to the Government's percentage royalty.
[4] Strike out the provision not applicable.
[5] Name of mineral or minerals.

U. S. GOVERNMENT PRINTING OFFICE 16—66328

[CORPORATE SEAL]

(*b*) *Final report.*—Upon completion of the exploration work or termination of the contract the Operator shall provide the Government with an adequate geological and engineering report, in quintuplicate (five copies), including an estimate of ore reserves resulting from the exploration work.

(*c*) *Compliance with requirements.*—If, in the opinion of the Government, any of the Operator's reports are insufficient or incomplete, the Government may procure the making or completion of such reports and attachments as an expense of the exploration work; and the Government may withhold approval and payment of any vouchers depending upon insufficient or incomplete reports.

(*d*) *Accounts and audits.*—The Operator shall keep suitable records and accounts of the units of work performed, which the Government may inspect and audit at any time. The Government may at any time require a check of the work performed and an audit of the Operator's records and accounts, by a certified public accountant or otherwise, 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. Upon the completion of the project or termination of the contract the Operator shall render a final account and statement of work performed to accompany his final report.

ARTICLE 6. *Repayment by Operator.*—(*a*) If, at any time, the Government considers that a discovery or a development from which production may be made has resulted from the exploration work, the Government, at any time not later than 6 months after the Operator has rendered the required final report and final account, may so certify in writing to the Operator. The certification shall describe broadly or indicate the nature of the discovery or development. In the event of such certification, any minerals mined or produced from the land described in Article 2 within 10 years from the date of this contract, including any mined or produced before the certification, shall be subject to a percentage royalty which the Operator or his successor in interest shall pay to the Government, upon the net smelter returns, the net concentrator returns, or other net amounts realized from the sale or other disposition of any such production, in whatever form disposed of, including ore, concentrates, or metal, until the total amount contributed by the Government, without interest, is fully repaid, or said 10 years have elapsed, whichever occurs first, as follows:

(1) One and one-half (1½) percent of any such net amounts not in excess of eight dollars ($8.00) per ton.

(2) One and one-half (1½) percent of any such net amounts, plus one-half (½) percent of such net amounts for each additional full fifty cents ($0.50) by which such net amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) percent of such net amounts.

(For instance: The percentage royalty on a net amount of five dollars ($5.00) per ton, would be one and one-half (1½) percent; on a net amount of ten dollars ($10.00) per ton, three and one-half (3½) percent.)

(*b*) As here used, "net smelter returns," "net concentrator returns," and "other net amounts realized from the sale or other disposition," mean gross revenue from sales, or if not sold, the market value of the material after it is mined in the form in which and the place where it is held. In the case of integrated operations in which the material is not disposed of as such, these terms mean what is or would be the gross income from mining operations for percentage depletion purposes in income-tax determination.

(*c*) To secure the payment of its percentage royalty, the Government shall have and is hereby granted a lien upon the land described in Article 2 and upon any production of minerals therefrom, until the royalty claim is extinguished by lapse of time or is fully paid.

(*d*) This article is not to be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any mining or production operations.

ARTICLE 7. *Assignment, transfer, or loss of Operator's interest.*—Without the written consent of the Government, the Operator shall not assign or otherwise transfer or hypothecate this contract or any rights thereunder. The Operator shall not make any voluntary nor permit any involuntary transfer or conveyance of the Operator's rights in the land described in Article 2, without making suitable provision for the preservation of the Government's right to a percentage royalty on production and lien for the payment thereof; *Provided*, that mere failure by the Operator to maintain the Operator's rights in the land, without any consideration running to the Operator other than relief from the cost of maintaining such rights (as by surrender of a leasehold, failure to perform assessment work, or failure to exercise an option), coupled with complete abandonment by the Operator of all interest in or operations on the land for a period of 10 years from the date of this contract, shall not constitute such a transfer or conveyance. Should the Operator make or permit any transfer or conveyance in violation of this provision, the Operator shall be and remain liable for payment to the Government of the same amounts, at the same times, as would have been paid under the terms of the percentage royalty on production. If for any reason the net smelter returns, net concentrator returns, or other net amounts realized from the sale or other disposition of such production are not available as a means of measuring the amount of the Operator's liability, the amount thereof shall be estimated as well as may be, and in the event of dispute as to such estimates, the determination of the Administrator, Defense Minerals Exploration Administration, or by his successor shall be final and binding upon the Operator.

**Addition to Article 6 Repayment provision shall also apply to any bonus paid for the production of metal or mineral.**

ARTICLE 8. *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 worth while discovery and in the opinion of the Government further operations are not justified.

ARTICLE 9. *Changes and added provisions* _____

_____

_____

_____

Executed in sextuplicate the day and year first above written.

**Administrator, Defense Minerals Exploration Administration**
THE UNITED STATES OF AMERICA

By _____

_____
(Operator)

By _____

---

I, _____, certify that I am the _____ secretary of the corporation named as Operator herein; that _____, who signed this contract on behalf of the Operator, was then _____ of said corporation; that said contract was duly signed for and in behalf of said corporation by authority of its governing body, and is within the

DRAFT
FLKNOUSE/jem

BOYLE, C.R., ORTMAYER, C. G. AND
SULLIVAN, R. G.
DOCKET NO. DMEA-2857
GRAND JUNCTION, COLORADO

ANNEX 1

That portion of Sections 26, 27 and 34, Township 7 South, Range 3 East of the Black Hills Meridian, Fall River,County, South Dakota that is included within the boundaries of the following Lode Claim Locations:

| Name | Date of Record | Book | Page |
|---|---|---|---|
| Schoonmaker #1 | 5-19-52 | 31 Misc. | 158 |
| " " #2 | 10-13-52 | 31 " | 502 |
| Ripsnorter #1 | 5-19-52 | 31 " | 157 |
| # " #2 | 5-19-52 | 31 " | 157 |
| Morning Glory | 5-19-52 | 31 " | 158 |
| Cycad #1 | 5-19-52 | 31 " | 157 |
| " " #2 | 5-19-52 | 31 " | 154 |
| Matias Peak #1 | 5-19-52 | 31 " | 155 |
| Matias Peak #2 | 5-19-52 | 31 " | 155 |
| Gurner's Folly | 5-19-52 | 31 " | 156 |

That portion of Section 3, Township 8 South, Range 3 East of the Black Hills Meridian, Fall River County, South Dakota that is included within the boundaries of the following Lode Claim Locations:

| Name | Date of Record | Book | Page |
|---|---|---|---|
| Parker #1 | 6-9-52 | 31 Misc. | 308 |
| " " #2 | 6-9-52 | 31 " | 309 |
| " " #3 | 6-9-52 | 31 " | 309 |
| " " #4 | 6-9-52 | 31 " | 309 |
| " " #5 | 6-9-52 | 31 " | 310 |
| " " #6 | 6-9-52 | 31 " | 310 |
| " " #7 | 11-18-52 | 31 " | 199 |
| " " #8 | 11-18-52 | 31 " | 199 |

That portion of Sections 27 & 34, Township 7 South, Range 3 East of the Black Hills Meridian, Fall River County, South Dakota that is included within the boundaries of the following Lode Claim Locations:

| Name | Date of Record | Book | Page |
|---|---|---|---|
| Montana #1 | 9-11-52 | 31 Misc. | 346 |
| " " #2 | 9-11-52 | 31 " | 346 |

Draft FLKnouse/em 3-17-53

C. G. ORTMAYER, R. G. SULLIVAN AND C. R. BOYLE
EXPLORATION PROJECT CONTRACT
DOCKET NO. DMEA-2857

EXHIBIT "A"

Description of the Work

The purpose of the work is to explore the Lakota Formation of Early Cretaceous Age, underlying the described property for uranium ore. The exploration work shall be done by drilling holes from the surface with a wagon mounted precision drill.

The work below indicated is to be done in two stages, but Stage II is to be undertaken only after completion of Stage I, and the location and extent of the work is to be dependent upon the results of Stage I and to be undertaken only upon the expressed approval of the Government. The location and extent of the work consists of the following:

Stage I

The work is to be confined to Blocks Nos. 1 and 2 as shown on the attached map Exhibit "B". This work consists of drilling a maximum of 12,500 feet of wagon drill hole from the surface. All holes are to be drilled to penetrate the local ore bearing horizon averaging approximately 30 feet in depth, and an occasional hole is to be drilled to penetrate a possible lower ore bearing horizon. The holes are to be drilled on a rectangular spacing of 100 feet in a north-south direction and 50 feet in an east-west direction to an average depth of 30 feet and for each 5000 square feet of area one hole is to be drilled to an approximate depth of 100 feet.

Stage II

This work is to be confined to Blocks Nos. 1, 2, and 3, as shown on the attached map Exhibit "C" or in other areas on this property that has the expressed approval of the Government. This work consists of drilling a maximum of 24,500 feet of wagon drill hole from the surface and the hole spacing is to be the same as is described under Stage I unless modified with the express approval of the Government.

Hole diameters, depths, method of sampling, recovery of drill cuttings, and samples to be supplied to the Government are all subject to approval of the Government.

## Estimated Costs of the Project

### Stage I

| | | |
|---|---|---|
| 12,500 feet of wagon drill hole @ $1.04/ft. | $13,000.00 | |
| 100 sample analyses including freight and postage @ $4.00/each | 400.00 | |
| Total Stage I | | $13,400.00 |

### Stage II

| | | |
|---|---|---|
| 24,500 feet of wagon drill hole @ $1.01 | $24,745.00 | |
| 200 sample analyses including freight and postage @ $4.00/each | 800.00 | |
| Total Stage II | | $25,545.00 |
| Total Estimated Cost of Project | | $38,945.00 |
| Government Participation @ 90% | | $35,050.50 |

COPY

1/29/53 jem

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
~~WASHINGTON 25, D. C.~~
Region V
2908 Colfax Avenue South
Minneapolis 8, Minnesota

DMEA-2857

January 15, 1953

Memorandum

To: Operating Committee, Defense Minerals Exploration Administration, Interior Building, Washington 25, D. C.

From: Executive Officer, Field Team, Region V

Subject: Ripsnorter and Parker claims, Fall River County, S. Dak.

Here are the original and two copies of an application from C. R. Boyle and partners for exploration of uranium ores in South Dakota, together with the original and three copies of the Field Team Report recommending a contract modified from the applicants' opinion.

A copy of the application has been retained by this office.

/s/ A. B. Needham
A. B. Needham
Executive Officer
Field Team, Region V

Attachments

Reviewed by
DMEA OPERATING COMMITTEE
1-28-53
(date)

dmea 2857

UNITED STATES
DEPARTMENT OF THE INTERIOR
OSCAR L. CHAPMAN, SECRETARY

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 1 8 1953

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION V

# Ripsnorter and Parker Claims Groups

## Fall River County, South Dakota

E. C. Binyon, Mining Engineer
U. S. Bureau of Mines

J. A. Redden, Geologist
U. S. Geological Survey

January 8, 1953

Reviewed by
DMEA OPERATING COMMITTEE
1-28-53
(date)

DEFENSE MINERALS EXPLORATION ADMINISTRATION
Report of Field Examination

by

E. O. Binyon, Mining Engineer
U. S. Bureau of Mines

J. A. Redden, Geologist
U. S. Geological Survey

Docket No:
Property: Ripsnorter and Parker Claims Groups
Applicant: C. G. Ortmayer, R. G. Sullivan, C. R. Boyle
Commodity: Uranium (Carnotite)

## SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

The applicant, a partnership between C. G. Ortmayer, R. G. Sullivan, and C. R. Boyle, is addressed in care of C. R. Boyle, Resident Manager, P. O. Box 330, Edgemont, S. Dak.

The property, held under three lease agreements, is approximately 13 miles northeast of Edgemont, Fall River County, S. Dak., and is accessible by good road the year around.

The field team, in company with C. R. Boyle, examined the property on December 4, 1952 and spent approximately 3 hours on the examination and in discussing the proposed exploration. It was suggested that the exploration, by wagon drilling, be conducted on a more limited scale than originally proposed and that, at least in the initial stage, the drilling be confined to the more promising showings based on anomalies and favorable horizon. This was agreed to by the applicant and it was further agreed that the original application would be revised accordingly. The application in its present form was submitted December 15, 1952.

Based on the limited information available on the newly discovered district the areas designated in the application, as well as others in the district, are reasonably favorable for exploration. The proposed method of exploration, by wagon drilling, is the most feasible for areas as outlined in the application.

However, the field team is of the opinion that since so little information is available exploration must be planned, at least in the initial stages, on a somewhat smaller scale than proposed, both as to the areas to be explored and as to the money to be expended. The reduction in scale of the proposed exploration, as well as the recommendation for doing the work in two phases, is based on several factors:

the limited geologic information, the small size and relatively low grade of deposits so far discovered, and the lack of criteria which can be used as a basis for the selection of any particular areas for exploration as against others. It is recommended that the application be approved for 12,500 feet of wagon drilling to be confined to the two blocks as outlined on the Montana No. 1, Matias Peak No. 1, the Schoonmaker Nos. 1 and 2, and Gerner's Folly claims. See map, Exhibit "A". An additional 24,500 feet of drilling is recommended on the Parker group blocks or in other areas which the available geologic information and that obtained from the first stage drilling might indicate as favorable for exploration. It is further recommended that a short form contract be negotiated.

## NAME, LOCATION AND DESCRIPTION OF THE PROPERTY

The property, known as the Ripsnorter and Parker Groups, is held under lease by G. G. Ortmayer, R. G. Sullivan, and C. R. Boyle, a partnership. It is approximately 13 miles northeast of Edgemont, Fall River County, S. Dak. in sections 26, 27, and 34, T. 7 S., R. 3 E., and section 3, T. 8 S., R. 3 E., B.H.M. The property is accessible the year around, being reached by 10 miles of good highway (U.S. 85A) and approximately 3 miles of fair dirt road.

Ownership, lease agreements, and the record of locations of the nineteen unpatented claims are given in the lease agreements accompanying the application. The maps show the locations of the claims.

Workings consist of small discovery pits as shown on the maps and an open cut located on the south side of the westernmost mineralized block. The open cut is approximately 12 feet in width, 100 feet in length, and averages approximately 15 feet in depth. North of the open cut the surface has been dozed off over an area of about 500 square feet.

## GEOLOGY

The general geology as described by the applicant is essentially correct. The proposed selection of the drilling areas is based on scintillometer anomalies and on the location of the same or similar beds.

The present knowledge of the shape, size and control of the ore bodies is limited. In general, most of the ore bodies at present tend to be elongated in a north-south direction. Ore bodies locally do occur in the same general horizon and in neighboring deposits. This is indicated by the applicant's discovery of two ore bodies on the Matias Peak claims, one of which was concealed and had no surface anomaly.

The location of the two known ore bodies on the property appear to be at a change in dip of the Lakota (?) formation. The exposures of the western ore body which the applicant is now mining by open cut

appears to be controlled by channeling and cross-bedding, and trends about N. 10° - 30° E. Accurate recording of the results of the proposed drilling may provide valuable information as to the control, size, and distribution of the deposits.

## PRODUCTION

Total production to date is approximately 200 short tons of ore with an average grade of about .17 percent $U_3O_8$, all of which has come from the open cut on the westernmost deposit.

## DESCRIPTION OF THE PROJECT

In the discussion with the applicant, C. R. Boyle, it was brought out that at present pertinent geologic information for planning extensive exploration programs is extremely limited or lacking entirely. Also, that the largest known deposits so far discovered in this new district are relatively small, the largest having about 3,000 tons of approximately 0.2 percent ore, or a value of $100,000. Repayment of a loan of the amount applied for would necessitate discovery of ore deposits having a gross value of approximately $1,000,000. Based on the present limited knowledge of the district, it appears unlikely that ore deposits of sufficient size and grade for repayment of this amount will be discovered on this property. However, there is no question that the property does warrant exploration.

It was further suggested that by doing the work in two phases and limiting the first phase to the most favorable showings, the geologic data obtained when combined with that already available may make it possible to better select favorable areas for exploration under Phase II.

The field team recommends that the exploration loan as outlined in this report be approved. The applicant is in agreement with this recommendation.

The work will proceed on a limited basis, concentrating on the most favorable areas at the start. Under Phase I the horseshoe-shaped block on the Montana No. 1 and Matias Peak No. 1 claims, and the block on the Schoonmaker No. 1, Schoonmaker No. 2, and Gerner's Folly claims are to be drilled. Both blocks have radiometric anomalies and are in a favorable horizon. The hole spacing is to be increased from the 40-foot centers, as originally proposed, to a rectangular spacing of 100 feet in a north-south direction and 50 feet in an east-west direction.

Actual practice may require some changes in the grid both in spacing and limits, but it is believed that few, if any, ore bodies will be missed by the larger grid. On the grids with a 100- by 50-foot spacing a maximum of 12,500 feet of hole is to be drilled on the two blocks mentioned, and for about every 5,000 square feet, one hole would

be drilled to a depth of approximately 100 feet. All other holes are to be drilled to penetrate the local ore horizon, or to a depth of about 30 feet.

On the large grid the calculated drilling footage for the two areas which are to be drilled first is 10,500 feet, but an additional 2,000 feet of drilling is included for the total of 12,500 feet in order to allow for any extra drilling that may be necessary to better outline any discoveries in these areas.

For the second phase, an additional 24,500 feet of drilling is recommended for the blocks on the Parker group (see map), or in other areas which the available geologic data, and that obtained from the first phase drilling, might indicate as most favorable for exploration. Exploration under the second phase is to be undertaken if, in the opinion of the field team, the results of Phase I warrant it.

Obviously, the decision to proceed with Phase II cannot be based entirely on the results of Phase I, but if the results of Phase I are entirely negative it would certainly be advisable to either curtail the work under Phase II or to stop it entirely. If Phase I results are favorable, then Phase II would be carried out. However, it may be necessary to select areas other than those outlined, as well as to increase or decrease the drilling footage in any selected area, so some degree of flexibility seems desirable.

In view of the fact that some exploration of the property is certainly warranted and also that the choice of an area for exploration, based on the present limited information, is by guess, the allowance of 24,500 feet of drilling under Phase II is made in order to obtain some flexibility and at the same time place some limitation on expenditures. Also, in setting the work up under two phases the necessity for filing another application, should Phase I results warrant additional drilling, has been obviated. It is believed, and the applicant is in agreement, that a two-phase program of exploration will prove mutually advantageous.

All claims as outlined on the accompanying map are included in the project. However, the production from deposits on or extending either laterally or vertically from the two adjoining blocks designated "mineralized," colored in red, and lying in part on the Matias Peak No. 1 and Matias No. 2 claims, is not to be subject to a royalty payment for repayment of the exploration loan.

All production, except as mentioned in the preceding paragraph, from any deposit which is discovered as a result, either directly or indirectly, of the exploration under the contract is subject to royalty payments if certified as a discovery.

It is recommended that any samples taken during the project be split and a representative split be made available to the Bureau of Mines.

Work will start within 30 days from the date the applicant signs the contract and the initial stage of the work will be completed within 3½ months from the starting date. If the project is carried into the second phase drilling, this work will be started as soon as possible after completion of the first phase and will be completed within 7 months from the date the second phase is started. It is estimated that the project will be completed in 10½ to 11 months.

Estimated costs of the project are as follows:

PHASE I

| | | Total | Cost Per Ft. |
|---|---|---|---|
| Independent contracts - wagon drilling 12,500 ft. @ $.75 per ft. | | $ 9,375.00 | $ .75 |
| Labor | | -- | -- |
| Supervision | | | |
| Geologist @ $450 per mo. for 3½ mos. | | 1,575.00 | |
| Superintendent, part time, $150 per mo. for 3½ months | | 525.00 | |
| Bookkeeper, $50 per mo. for 3½ mos. | | 175.00 | |
| | | 2,275.00 | .182 |
| Operating Material & Supplies | | 125.00 | .010 |
| Gas, oil, & misc. for truck | $105.00 | | |
| Sacks etc. for samples | 20.00 | | |
| Operating equipment furnished by operator | | | |
| Radiometric scaler, manufactured by Nuclear Chemical & Instrument Co. | $ 950.00 | | |
| Crusher, pulverizer, splitter, etc. | 610.00 | | |
| Chevrolet truck (new) | 1800.00 | | |
| | $3360.00 | | |
| Total operating equipment, $3360, @ 1/60 per mo. for 3½ months | | 196.00 | .016 |
| Rehabilitation and repairs | | -- | -- |
| New Buildings etc. | | -- | -- |
| Miscellaneous | | | |
| Drill site preparation | | | |
| Dozer rental estimated 6 days @ $100/day | | 600.00 | .048 |
| Compensation Insurance | | 109.38 | .009 |
| $3.50 per hundred for surface workers | $73.50 | | |
| 1.00 per hundred for bookkeeper | 1.75 | | |
| | $75.25 | | |
| Payroll taxes, 1½% of $2275 | 34.13 | | |
| Analyses, check chemical, 100 samples @ $4.00 (includes freight & postage) | | 400.00 | .032 |

| PHASE I (cont.) | | Cost Total | Per Ft. |
|---|---|---|---|
| Report on first phase | | $ 50.00 | .004 |
| Contingencies | | 150.00 | .012 |
| Phase I total | | $ 13,280.38 | $ 1.063 |

PHASE II

| | | | |
|---|---|---|---|
| Independent contract, wagon drilling, 24,500 ft. @ $.75 per ft. | | $ 18,375.00 | .75 |
| Labor | | -- | |
| Supervision: | | | |
| Geologist, $450 per mo. for 7 mos. - | $3150.00 | | |
| Superintendent, $150/mo. " " " | 1050.00 | | |
| Bookkeeper, $50 per mo. for 7 mos. | 350.00 | | |
| | | 4,550.00 | .186 |
| Operating Materials and Supplies | | 250.00 | .010 |
| Gas, oil & misc. for truck | $ 210.00 | | |
| Sacks etc. for samples | 40.00 | | |
| Operating equipment furnished by operator | | | |
| Radiometric scale | 950.00 | | |
| Crusher, pulverizer, splitter, etc. | 610.00 | | |
| Chevrolet truck (new) | 1800.00 | | |
| | 3360.00 | | |
| 1/60 per mo. of $3360 for 7 mos. | | 392.00 | .016 |
| Rehabilitation and repairs | | -- | -- |
| New Buildings, Etc. | | -- | -- |
| Miscellaneous | | | |
| Drill site preparation, 6 days @ $100 | | 600.00 | .025 |
| Compensation Insurance | | 218.75 | .009 |
| $3.50 per hundred for surface workers | 147.00 | | |
| 1.00 per hundred for bookkeeper | 3.50 | | |
| | 150.50 | | |
| Payroll taxes, 1½% of $4550 | 68.25 | | |
| Analyses, check chemical, 200 samples @ $4.00 (includes postage and freight) | | 800.00 | .033 |
| Final report not included in geologist's salary | | 150.00 | .006 |
| Contingencies | | 200.00 | .008 |
| | | $ 25,535.75 | $ 1.043 |

| | |
|---|---|
| Phase I - 12,500 ft. @ $1.07 per ft | $ 13,375.00 |
| Phase II- 24,500 ft. @ $1.04 per ft. | 25,480.00 |
| Total for Project | $ 38,855.00 |
| Government participation @ 90% | $ 34,969.50 |

MF-500

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

# REFERENCE SLIP

DATE 4-17-53

REFERRED TO:

1. Code 700 - Rm 4640
2. Mr. Fawcett
3. Legal Div.
4.

FOR:

| | |
|---|---|
| Action | Recommendation |
| Approval | Record |
| Comment | of |
| Conference | Referring |
| Consideration | to |
| Filing | Reply for signature of |
| Instructions | |
| Investigation | Rewriting |
| Initials | Signature |
| Mailing | Suggestions |
| Previous correspondence | Your information |

RECEIVED
APR 20 1953
GENERAL COUNSEL
DEFENSE MINERALS ADMINISTRATION

REMARKS: To be used to complete drafting contract

J.K.K. - 4-20-53

Check (X) before the items needing attention.

R. E. ADAMS

*Initials of sender.*

GPO 16—63815-1

Type everything 8/24
art 2(a) & 2(b) which
require more info.

Attach:
3 OCs
Maps B+C

HCB

VBOC by
~~Pursuant 28 of 6 days~~
Gand p.g atty to OCs.

Exhibits B & C

MF-200 (A)
(February 1952)

Docket No. DMEA 2857

Commodity Uranium

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

RECEIVED
MAR 17 1953
GENERAL COUNSEL
DEFENSE MINERALS ADMINISTRATION

# EXPLORATION PROJECT CONTRACT[1]
(Short Form)

It is agreed this _____ day of _____, 195__, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and[2] C. G. Ortmayer, R. G. Sullivan and C. R. Boyle, a Partners, Box 330 Edgement, South Dakota

hereinafter called the "Operator," as follows:

Article 1. *Authority for contract.*—This agreement is entered into under the authority of the Defense Production Act of 1950, as amended, pursuant to DMEA Order 1 entitled "Government Aid in Defense Exploration Projects."

Article 2. *Operator's property rights.*—With respect to that certain land situated in the State of South Dakota, County of Fall River, described as follows:[3] Known as the Rip Snorter and Parker Groups of claims, and consist of the property described on Annex I and shown on maps Exhibit "B" and Exhibit "C" attached and made a part of this contract. The property area marked on Map Exhibit "B," "Area Previously Drilled," is not subject to the repayment provisions in Article 6 of this contract.

the Operator represents and undertakes: identified as

(a) ~~That the Operator is the owner in possession and entitled to possession, and the property is subject only to the following liens, which are all that exist against the property:~~

(b) That the Operator is a lessee, in possession and entitled to possession, and the ~~Owner's~~ Owners' Consents to Lien are attached.

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.

Article 3. *Exploration project.*—The Operator, within _____ days from the date of this contract shall commence work on a project of exploration for[5] Uranium

in or upon the described land; and shall bring the project to completion within a period of 12 months from the date of this contract. The work to be performed is more fully described in Exhibit "A" attached hereto, which, with any maps or drawings thereto attached, are made a part of this contract. The Government will contribute to the cost of this work as hereafter provided. The work shall be performed by the Operator or by independent contractor or contractors efficiently, expertly, in a workmanlike manner, in accordance with good mining standards and State regulations for health and safety and for workmen's compensation and employers' liability insurance, with suitable and adequate equipment, materials, and labor, to bring the project to completion within the time fixed. 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.

Article 4. *Costs of the project.*—The agreed, estimated costs of performing the work, expressed in terms of units of work to be performed (per foot of drifting, per foot of drilling, per cubic yard of material to be moved, etc.) are set forth in Exhibit "A," attached hereto. The Government will pay 90 percent of these agreed, estimated costs, as they accrue, for units of work actually performed that conform with the description or specifications for the work set forth in this contract, in an aggregate total amount not in excess of $35,050.50 which is 90 percent of $38,945.00 the agreed, estimated total cost of the project in which the Government will participate: *Provided,* That until the Operator's final report and final accounting have been rendered to the Government and any final check or auditing required by the Government has been made, and a final settlement of the contract has been made, the Government may withhold from the last voucher or vouchers such sums as it sees fit not in excess of ten (10) percent of the maximum total which the Government might have been called upon to pay under the terms of the contract. The Government may, as it sees fit, make payments direct to the Operator's independent contractors, if any, for the account of the Operator, rather than to the Operator.

Article 5. *Reports, accounts, audits.*—(a) *Progress reports.* The Operator shall provide the Government with monthly reports of units of work performed under the contract, in quintuplicate (five copies), upon forms provided by the Government. These progress reports shall be certified by the Operator, and shall constitute both the Operator's invoice of units of work performed on the project during the period covered by the report and his voucher for repayment by the Government, unless the Government requires the use of a standard voucher form with invoice attached. Progress reports shall include surface and/or underground engineering-geological maps or sketches showing the progress of the exploration, with assay-reports on samples taken concurrently with the advance in mineralized ground.

[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, particularly excluding any land or interest therein to which the Government's lien is not to attach or the production from which is not to be subject to the Government's percentage royalty.
[4] Strike out the provision not applicable.
[5] Name of mineral or minerals.

(*b*) *Final report.*—Upon completion of the exploration work or termination of the contract the Operator shall provide the Government with an adequate geological and engineering report, in quintuplicate (five copies), including an estimate of ore reserves resulting from the exploration work.

(*c*) *Compliance with requirements.*—If, in the opinion of the Government, any of the Operator's reports are insufficient or incomplete, the Government may procure the making or completion of such reports and attachments as an expense of the exploration work; and the Government may withhold approval and payment of any vouchers depending upon insufficient or incomplete reports.

(*d*) *Accounts and audits.*—The Operator shall keep suitable records and accounts of the units of work performed, which the Government may inspect and audit at any time. The Government may at any time require a check of the work performed and an audit of the Operator's records and accounts, by a certified public accountant or otherwise, 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. Upon the completion of the project or termination of the contract the Operator shall render a final account and statement of work performed to accompany his final report.

ARTICLE 6. *Repayment by Operator.*—(*a*) If, at any time, the Government considers that a discovery or a development from which production may be made has resulted from the exploration work, the Government, at any time not later than 6 months after the Operator has rendered the required final report and final account, may so certify in writing to the Operator. The certification shall describe broadly or indicate the nature of the discovery or development. In the event of such certification, any minerals mined or produced from the land described in Article 2 within 10 years from the date of this contract, including any mined or produced before the certification, shall be subject to a percentage royalty which the Operator or his successor in interest shall pay to the Government, upon the net smelter returns, the net concentrator returns, or other net amounts realized from the sale or other disposition of any such production, in whatever form disposed of, including ore, concentrates, or metal, until the total amount contributed by the Government, without interest, is fully repaid, or said 10 years have elapsed, whichever occurs first, as follows:

(1) One and one-half (1½) percent of any such net amounts not in excess of eight dollars ($8.00) per ton.

(2) One and one-half (1½) percent of any such net amounts, plus one-half (½) percent of such net amounts for each additional full fifty cents ($0.50) by which such net amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) percent of such net amounts.

(For instance: The percentage royalty on a net amount of five dollars ($5.00) per ton, would be one and one-half (1½) percent; on a net amount of ten dollars ($10.00) per ton, three and one-half (3½) percent.)

(*b*) As here used, "net smelter returns," "net concentrator returns," and "other net amounts realized from the sale or other disposition," mean gross revenue from sales, or if not sold, the market value of the material after it is mined in the form in which and the place where it is held. In the case of integrated operations in which the material is not disposed of as such, these terms mean what is or would be the gross income from mining operations for percentage depletion purposes in income-tax determination.

(*c*) To secure the payment of its percentage royalty, the Government shall have and is hereby granted a lien upon the land described in Article 2 and upon any production of minerals therefrom, until the royalty claim is extinguished by lapse of time or is fully paid.

(*d*) This article is not to be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any mining or production operations.

ARTICLE 7. *Assignment, transfer, or loss of Operator's interest.*—Without the written consent of the Government, the Operator shall not assign or otherwise transfer or hypothecate this contract or any rights thereunder. The Operator shall not make any voluntary nor permit any involuntary transfer or conveyance of the Operator's rights in the land described in Article 2, without making suitable provision for the preservation of the Government's right to a percentage royalty on production and lien for the payment thereof; *Provided*, that mere failure by the Operator to maintain the Operator's rights in the land, without any consideration running to the Operator other than relief from the cost of maintaining such rights (as by surrender of a leasehold, failure to perform assessment work, or failure to exercise an option), coupled with complete abandonment by the Operator of all interest in or operations on the land for a period of 10 years from the date of this contract, shall not constitute such a transfer or conveyance. Should the Operator make or permit any transfer or conveyance in violation of this provision, the Operator shall be and remain liable for payment to the Government of the same amounts, at the same times, as would have been paid under the terms of the percentage royalty on production. If for any reason the net smelter returns, net concentrator returns, or other net amounts realized from the sale or other disposition of such production are not available as a means of measuring the amount of the Operator's liability, the amount thereof shall be estimated as well as may be, and in the event of dispute as to such estimates, the determination thereof by the Administrator of Defense Minerals Exploration Administration or by his successor shall be final and binding upon the Operator.

ARTICLE 8. *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 worth while discovery and in the opinion of the Government further operations are not justified.

ARTICLE 9. *Changes and added provisions* Addition to Article 6. The Repayment provisions of Article 6 shall also apply to any bonus paid for ~~the~~ production. ~~of metal~~ or mineral. amounts received as

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

(Operator)

By

By Administrator, Defense Minerals Exploration Administration

---

I, , certify that I am the secretary of the corporation named as Operator herein; that , who signed this contract on behalf of the Operator, was then of said corporation; that said contract was duly signed for and in behalf of said corporation by authority of its governing body, and is within the scope of its corporate powers.

[CORPORATE SEAL]

U. S. GOVERNMENT PRINTING OFFICE 16—66329-1

DRAFT
FLKNOUSE/jem

~~BOYLE, C.R.~~ C.G., ORTMAYER, ~~C. G. AND~~
R.G. SULLIVAN, ~~R. G.~~ and C.R. Boyle
DOCKET NO. DMEA-2857
~~GRAND JUNCTION, COLORADO~~

ANNEX 1

That portion of Sections 26, 27 and 34, Township 7 South, Range 3 East of the Black Hills Meridian, Fall River County, South Dakota, that is included within the boundaries of the following Lode Claim Locations:

| Name | Date of Record | Book | Page |
|---|---|---|---|
| Schoonmaker #1 | 5-19-52 | 31 Misc. | 158 |
| " " #2 | 10-13-53 | 31 " | 502 |
| Ripsnorter #1 | 5-19-52 | 31 " | 157 |
| " " #2 | 5-19-52 | 31 " | 157 |
| Morning Glory | 5-19-52 | 31 " | 158 |
| Cycad #1 | 5-19-52 | 31 " | 157 |
| " " #2 | 5-19-52 | 31 " | 154 |
| Matias Peak #1 | 5-19-52 | 31 " | 155 |
| Matias Peak #2 | 5-19-52 | 31 " | 155 |
| Gurner's Folly | 5-19-52 | 31 " | 156 |

That portion of Section 3, Township 8 South, Range 3 East of the Black Hills Meridian, Fall River County, South Dakota, that is included within the boundaries of the following Lode Claim Locations:

| Name | Date of Record | Book | Page |
|---|---|---|---|
| Parker #1 | 6-9-52 | 31 Misc. | 308 |
| " " #2 | 6-9-52 | 31 " | 309 |
| " " #3 | 6-9-52 | 31 " | 309 |
| " " #4 | 6-9-52 | 31 " | 309 |
| " " #5 | 6-9-52 | 31 " | 310 |
| " " #6 | 6-9-52 | 31 " | 310 |
| " " #7 | 11-18-52 | 31 " | 199 |
| " " #8 | 11-18-52 | 31 " | 199 |

That portion of Sections 27 & 34, Township 7 South, Range 3 East of the Black Hills Meridian, Fall River County, South Dakota, that is included within the boundaries of the following Lode Claim Locations:

| Name | Date of Record | Book | Page |
|---|---|---|---|
| Montana #1 | 9-11-52 | 31 Misc. | 346 |
| " " #2 | 9-11-52 | 31 " | 346 |

Draft FLKnouse/e[illegible]/3-17-53

Stage I shall be performed first. If, in the opinion of the Government, the results of Stage I warrant it and the Government approves it in writing, in advance, Stage II shall be undertaken.

C. G. ORTMAYER, R. G. SULLIVAN AND C. R. BOYLE
EXPLORATION PROJECT CONTRACT
DOCKET NO. DMEA-2857

EXHIBIT "A"

## Description of the Work

The purpose of the work is to explore the Lakota Formation of Early Cretaceous Age, underlying the described property, for uranium ore. The exploration work shall be done by drilling holes from the surface with a wagon-mounted precision drill.

The work ~~below indicated~~ is ~~to be done~~ divided into two stages. ~~but Stage II is to be undertaken only after completion of Stage I, and the location and extent of the work is to be dependent upon the results of Stage I and to be undertaken only upon the expressed approval of the Government. The location and extent of the work consists of the following:~~

## Stage I

The work is to be confined to Blocks Nos. 1 and 2 as shown on the attached map Exhibit "B". ~~This work~~ It consists of drilling a maximum of 12,500 feet of wagon drill hole from the surface. ~~All holes are to be drilled~~ to penetrate the local ore bearing horizon ~~averaging approximately 30 feet in depth, and an occasional hole is to be drilled to penetrate a possible lower ore bearing horizon.~~ The holes shall ~~are to~~ be drilled on a rectangular, with a spacing of 100 feet ~~in~~ between holes in a north-south direction and 50 feet between holes in an east-west direction. ~~to an average depth of~~ 30 feet ~~and for~~ in each 5000 square feet of area one hole ~~is to~~ shall be drilled to an approximate depth of 100 feet.

The depth of each hole shall be approximately

except that

## Stage II

if approved in advance by the Government,

This work is to be confined to Blocks Nos. 1, 2, and 3, as shown on the attached map Exhibit "C" ~~or in~~ and, on other areas ~~of~~ this property. ~~that has the expressed approval of the Government~~. ~~This work~~ It consists of drilling a maximum of 24,500 feet of wagon drill hole from the surface, and the hole spacing is to be the same as is described under Stage I unless modified ~~with the express approval of~~ by a agreement between the Government and the Operator.

The Hole diameters and depths, the method of all sampling, and the methods of recovery ~~of~~ drill cuttings, ~~and samples to be supplied to the Government~~ are all subject to the approval of the Government. At the request of the Government, the Operator shall furnish it with such samples as it specifies.

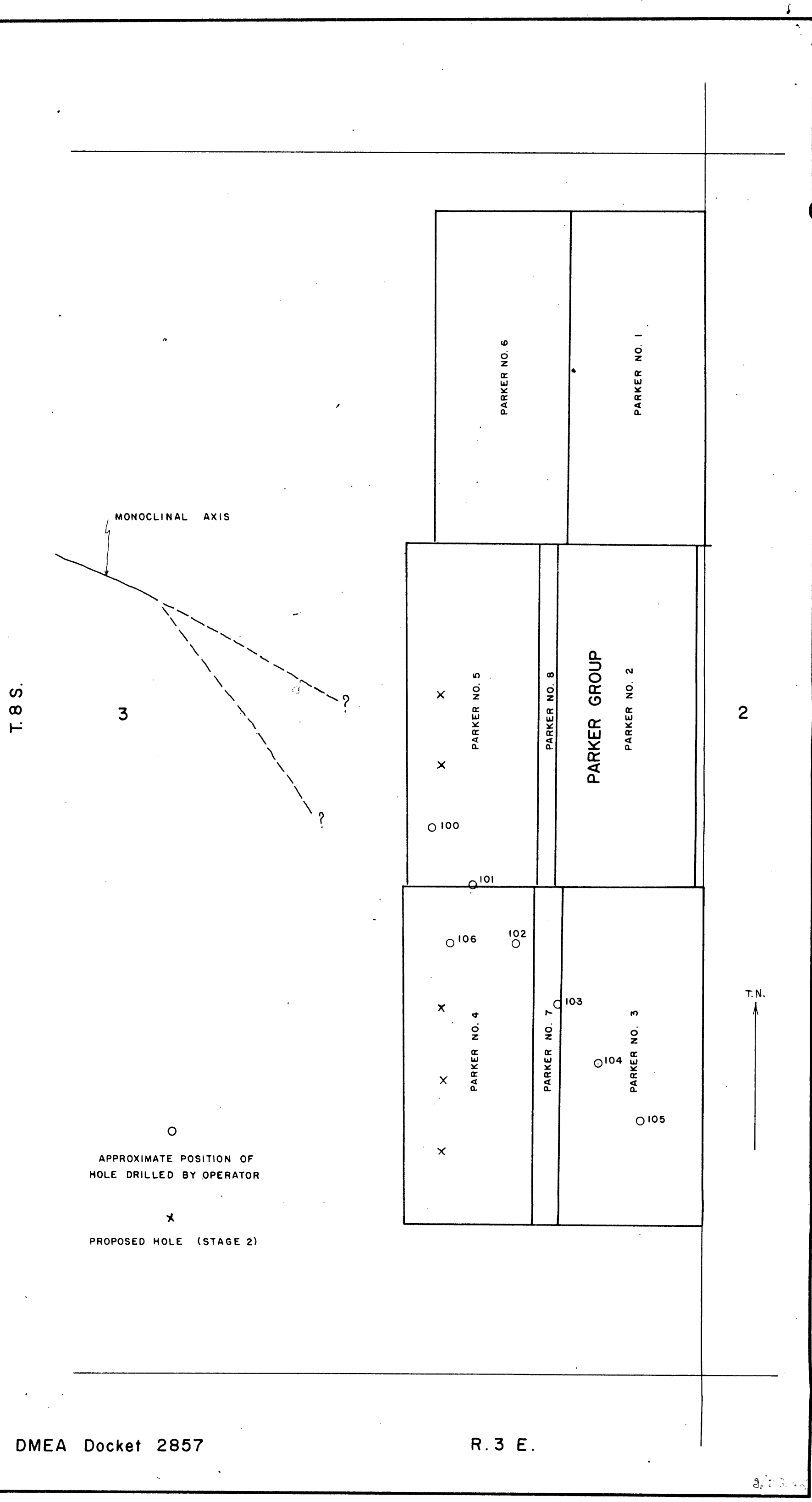
## ~~Estimated Costs of the Project~~
## Agreed Unit Costs

### Stage I

| | | |
|---|---|---|
| 12,500 feet of wagon drill hole @ $1.04/ft. | $13,000.00 | |
| 100 sample analyses, including freight and postage, @ $4.00/each | 400.00 | |
| Total Stage I | | $13,400.00 |

### Stage II

| | | |
|---|---|---|
| 24,500 feet of wagon drill hole @ $1.01 | $24,745.00 | |
| 200 sample analyses, including freight and postage, @ $4.00/each | 800.00 | |
| Total Stage II | | $25,545.00 |
| Total Estimated Cost of Project | | $38,945.00 |
| Government Participation @ 90% | | $35,050.50 |




# CLAIM MAP, SODAK URANIUM AND MINING COMPANY, INC., HOT SPRINGS, SOUTH DAKOTA

400 0 400 800 FEET

APPROXIMATE SCALE

Exhib Exhibit "C"

PLAT OF AMENDED LOCATIONS

# PARKER GROUP

LOCATED IN SECTION 3, T8S, R3E of B.H.P.M.

SCALE ~~~ 1 IN. = 200 FT.

Transit and stadia survey by H.D. Clark · Oct. 1952.

Signed H.D. Clark

Colorado REG. LAND SURVEYOR

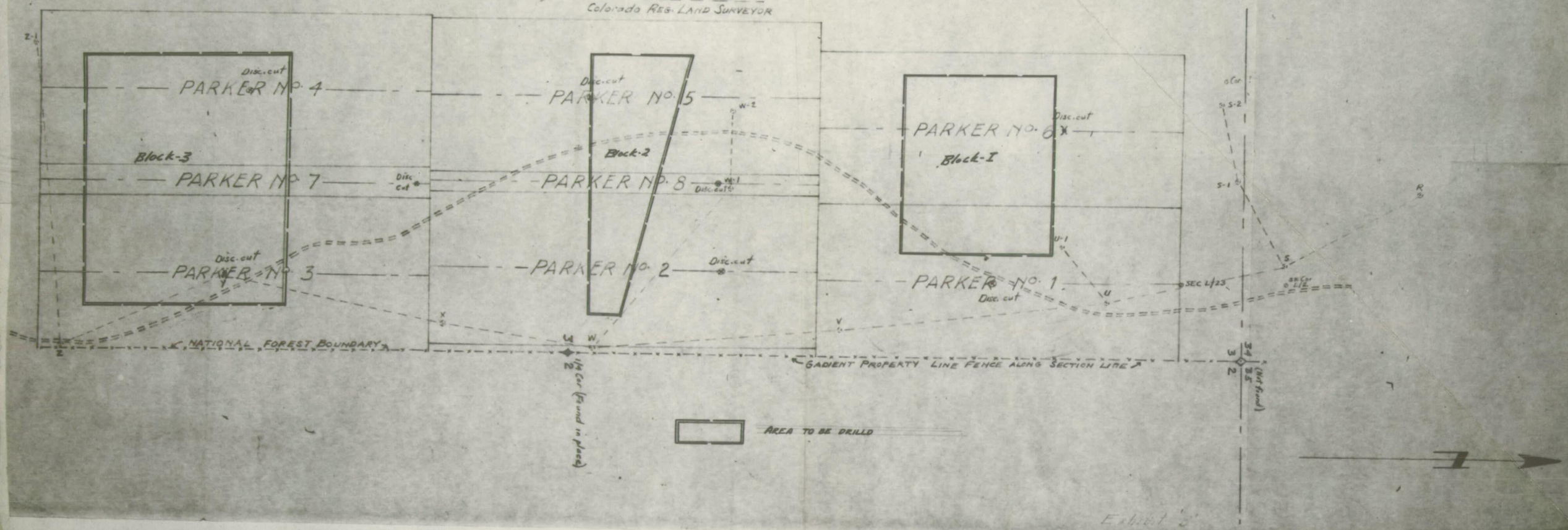



Exhibit "B"

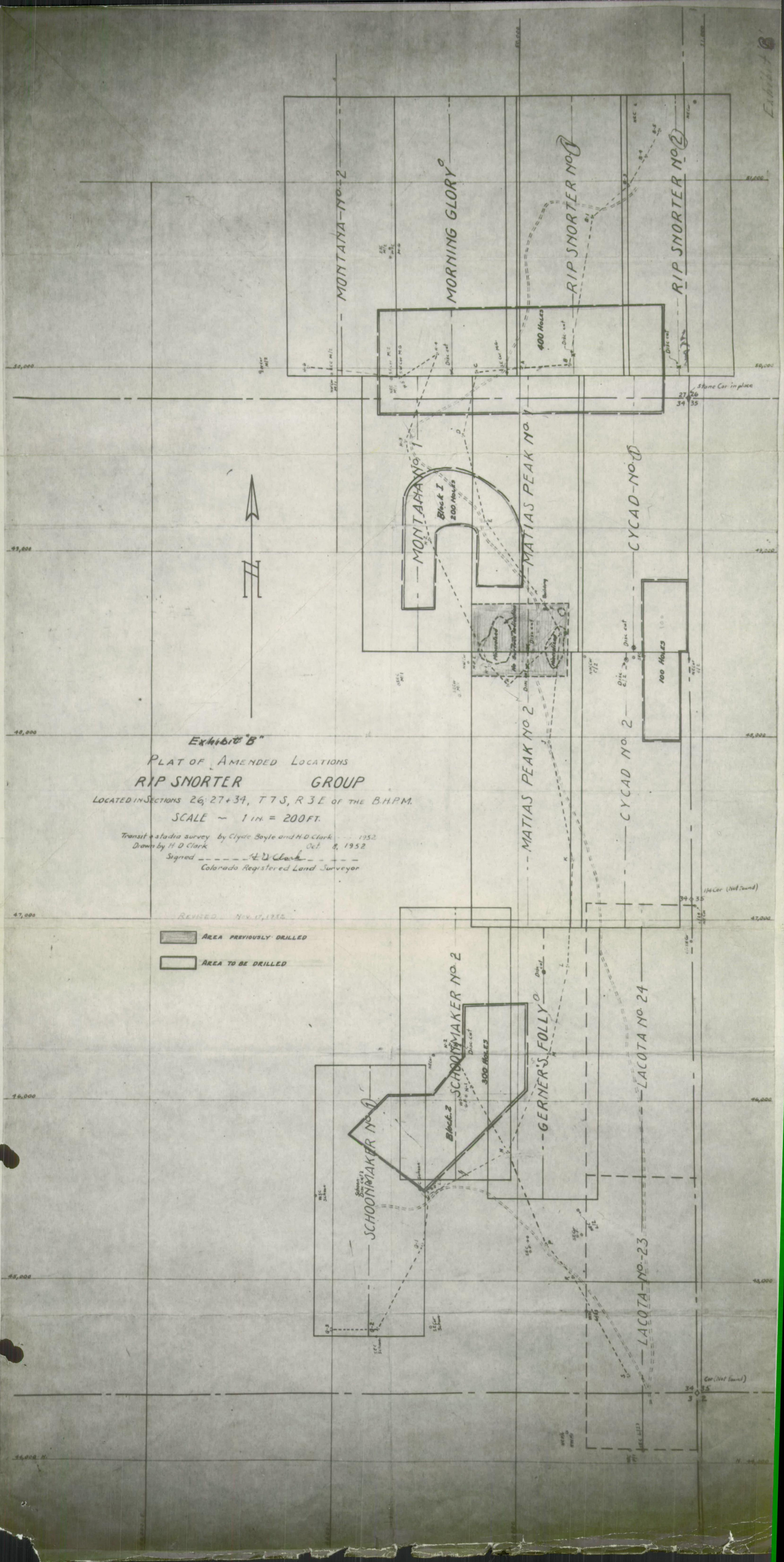
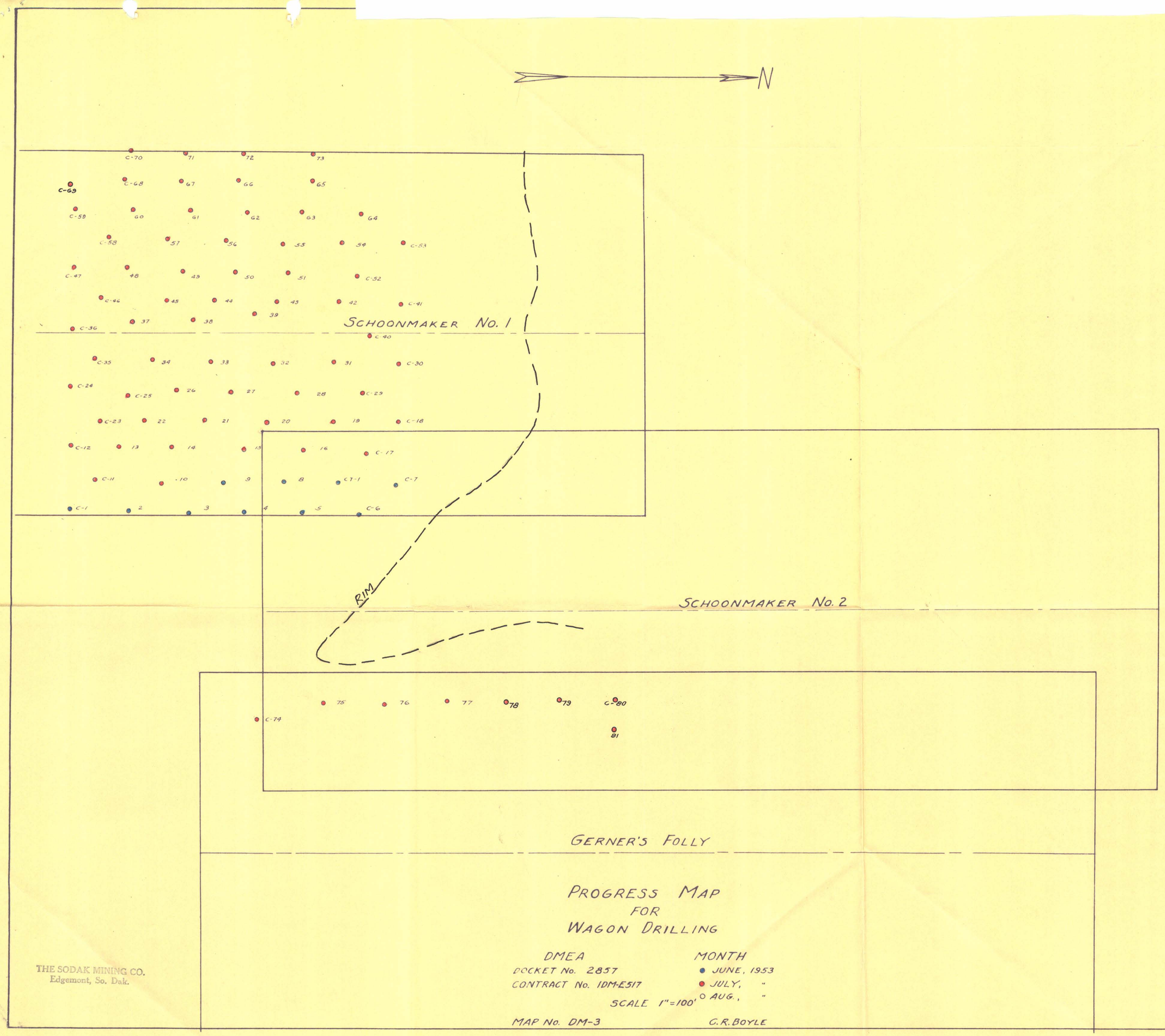


Exhibit "B"
PLAT OF AMENDED LOCATIONS
RIP SNORTER GROUP
LOCATED IN SECTIONS 26, 27 + 34, T 7 S, R 3 E OF THE B.H.P.M.
SCALE ~ 1 IN. = 200 FT.
Transit & stadia survey by Clyde Boyle and H.D. Clark 1952
Drawn by H.D. Clark Oct. 8, 1952
Signed H.D. Clark
Colorado Registered Land Surveyor
REVISED Nov. 17, 1952
AREA PREVIOUSLY DRILLED
AREA TO BE DRILLED
MONTANA-NO. 2
MORNING GLORY
RIP SNORTER NO. 1
RIP SNORTER NO. 2
400 HOLES
Stone Cor in place
MONTANA NO. 1
Block I
200 HOLES
MATIAS PEAK NO. 1
CYCAD-NO. 1
MATIAS PEAK NO. 2
CYCAD NO. 2
100 HOLES
1/4 Cor (Not found)
SCHOOMAKER NO. 2
Block 2
300 HOLES
GERNER'S FOLLY
LACOTA NO. 24
SCHOOMAKER NO. 1
LACOTA-NO. 23
Cor (Not found)

4350
LEGEND
GERNERS FOLLY
LAKOTA
MONTANA
MG MORNING GLORY
RIP SNORTER
SCHOONMAKER




PROGRESS MAP
FOR
WAGON DRILLING

DMEA
DOCKET No. 2857
CONTRACT No. 1DM-E517

MONTH
● JUNE, 1953
● JULY, "
○ AUG., "

SCALE 1" = 100'

MAP No. DM-3

C. R. BOYLE

THE SODAK MINING CO.
Edgemont, So. Dak.

# PROGRESS MAP
## FOR
## WAGON DRILLING

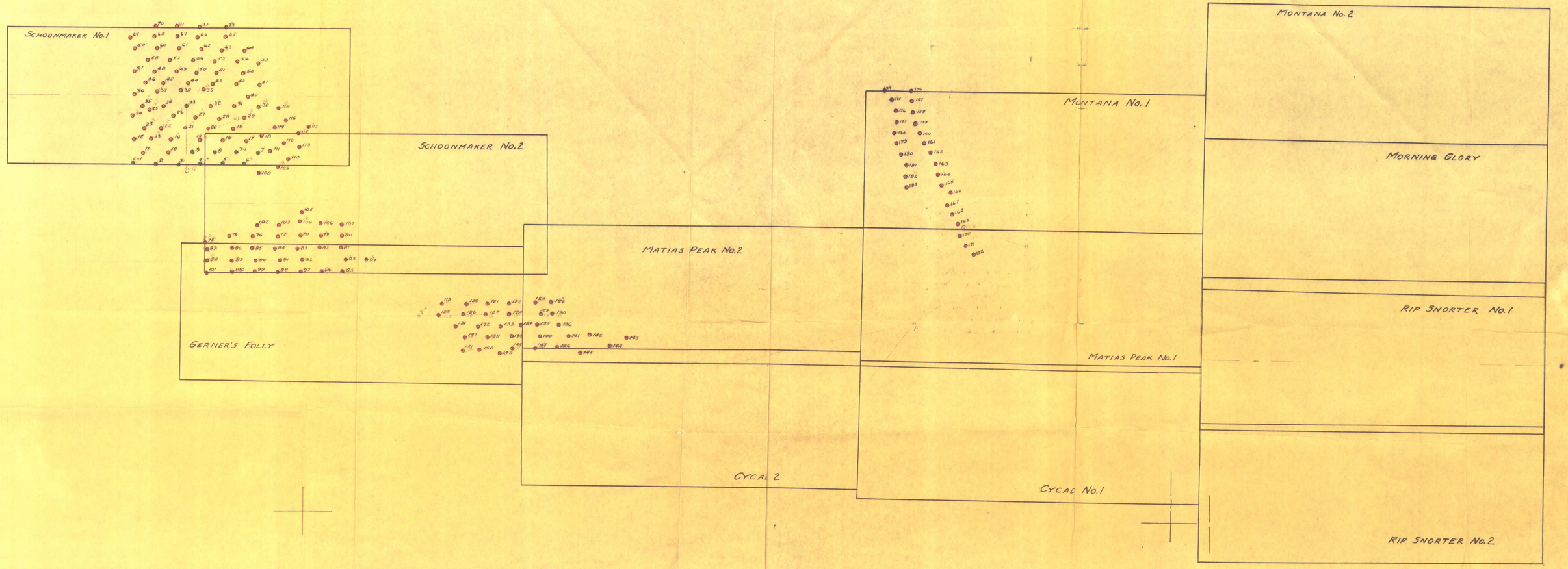
DMEA
DOCKET No. 2857
CONTRACT No. 10M-E517

MONTH
- JUNE, 1953
- JULY, "
- AUG., "

SCALE 1" = 200'

MAP No. DM-4

C.R. BOYLE



# PROGRESS MAP
## FOR
## WAGON DRILLING

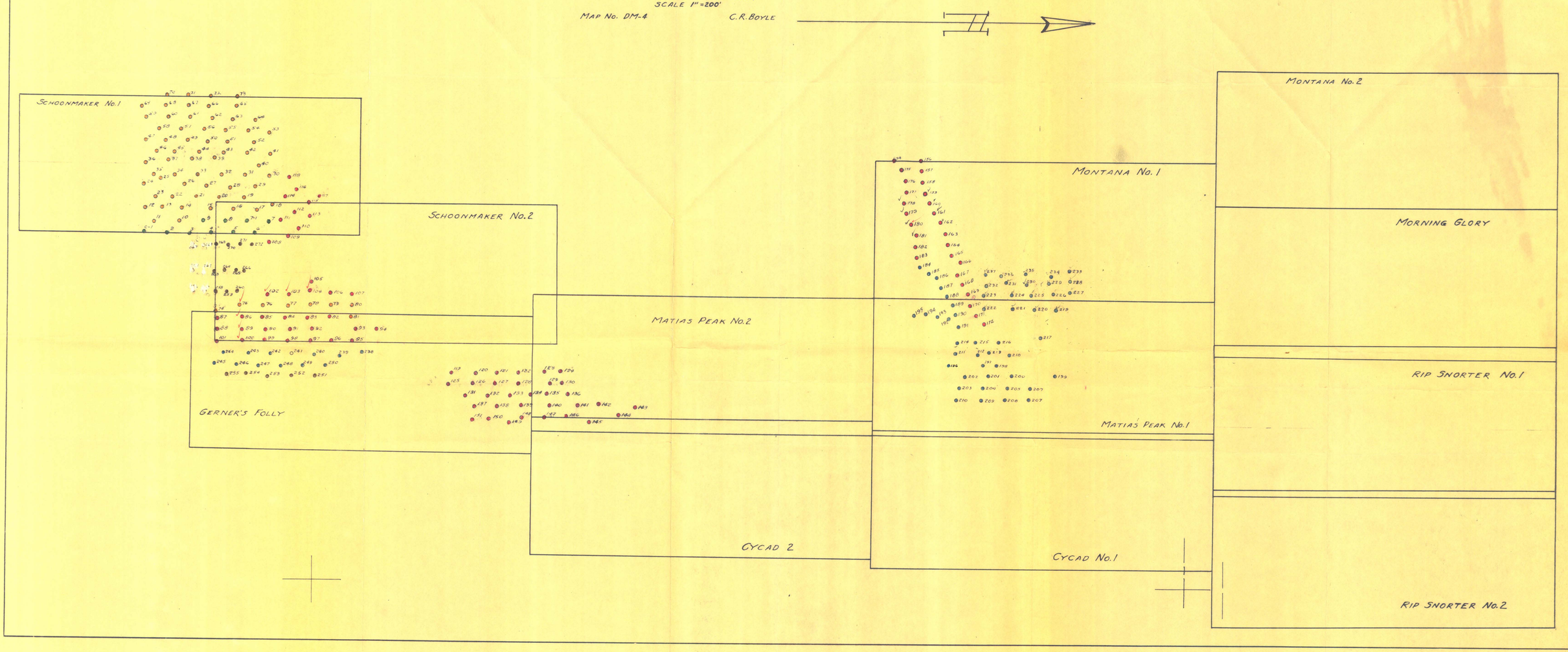
DMEA
DOCKET No. 2857
CONTRACT No. 1DM-E517

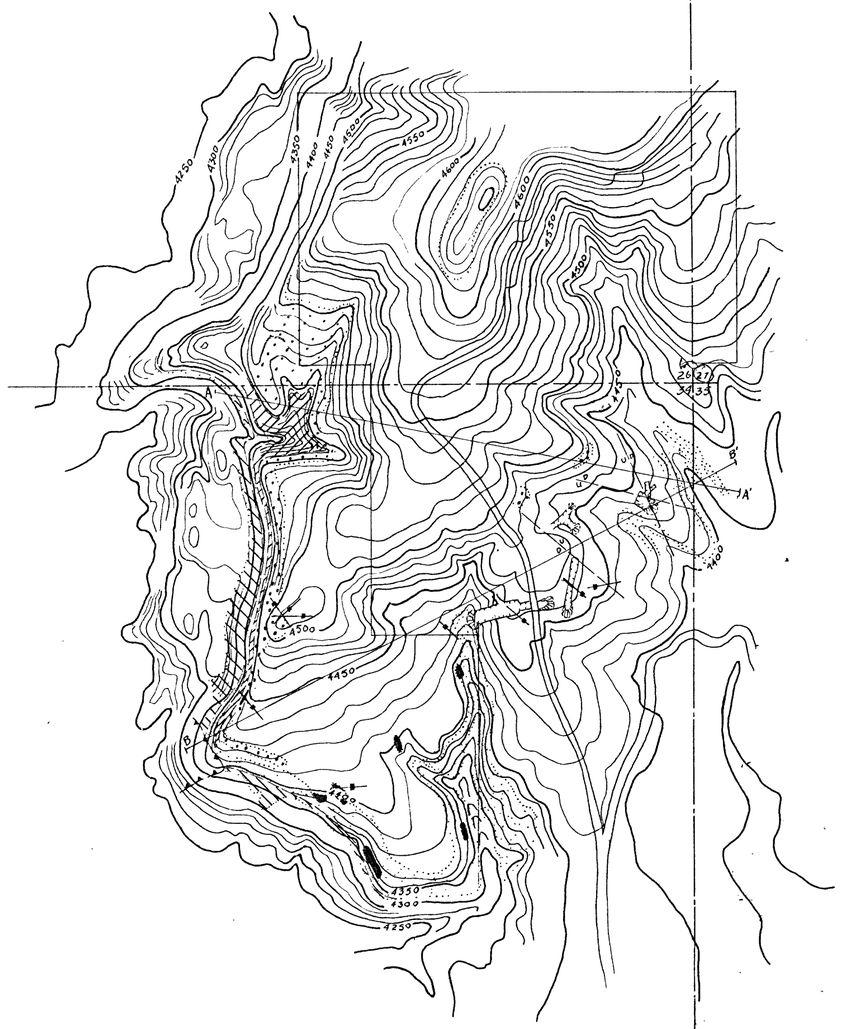
MONTH
- JUNE, 1953
- JULY, "
- AUG., "
- SEPT., 1953
- OCT., "

SCALE 1" = 200'

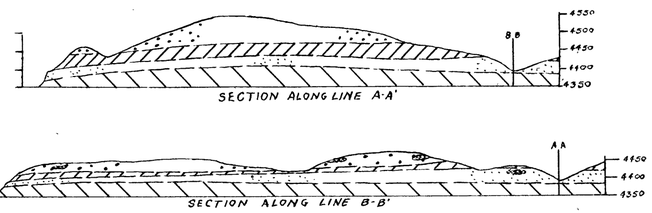
MAP No. DM-4

C.R. BOYLE






1" = 600'




SECTION ALONG LINE A-A'




SECTION ALONG LINE B-B'

Vertical scale - 1" = 300'
Horizontal scale 1" = 600'

EXPLANATION

Upper sandstone

Interbedded mudstone and sandstone

Lower sandstone

Carbonaceous shale

Carnotite

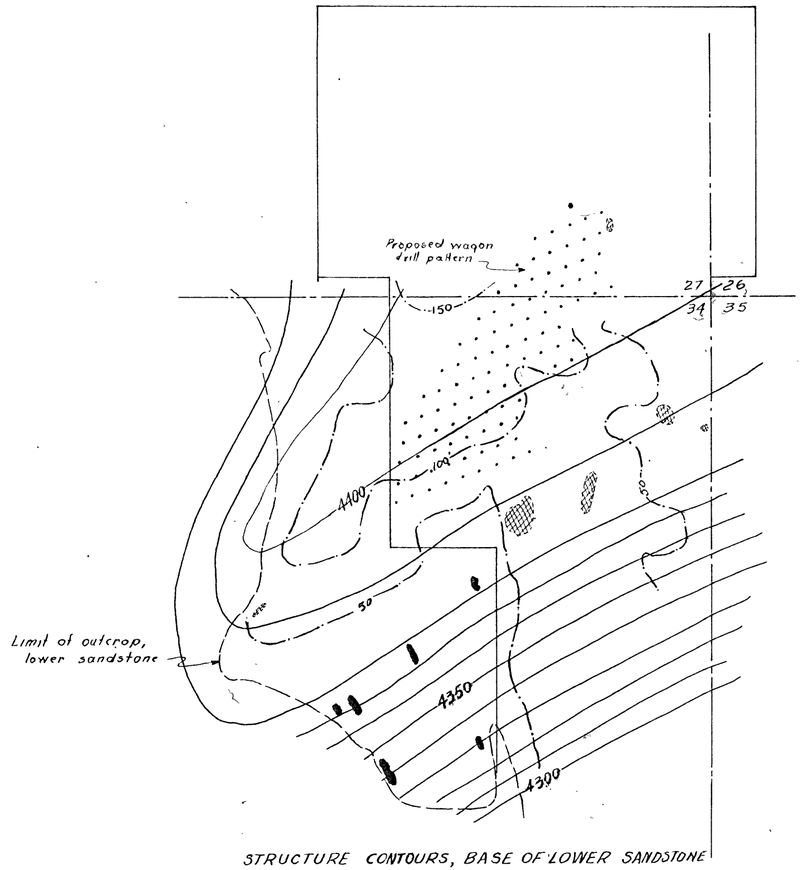
Carbonate bearing sandstone

Contact

Limit of exposure

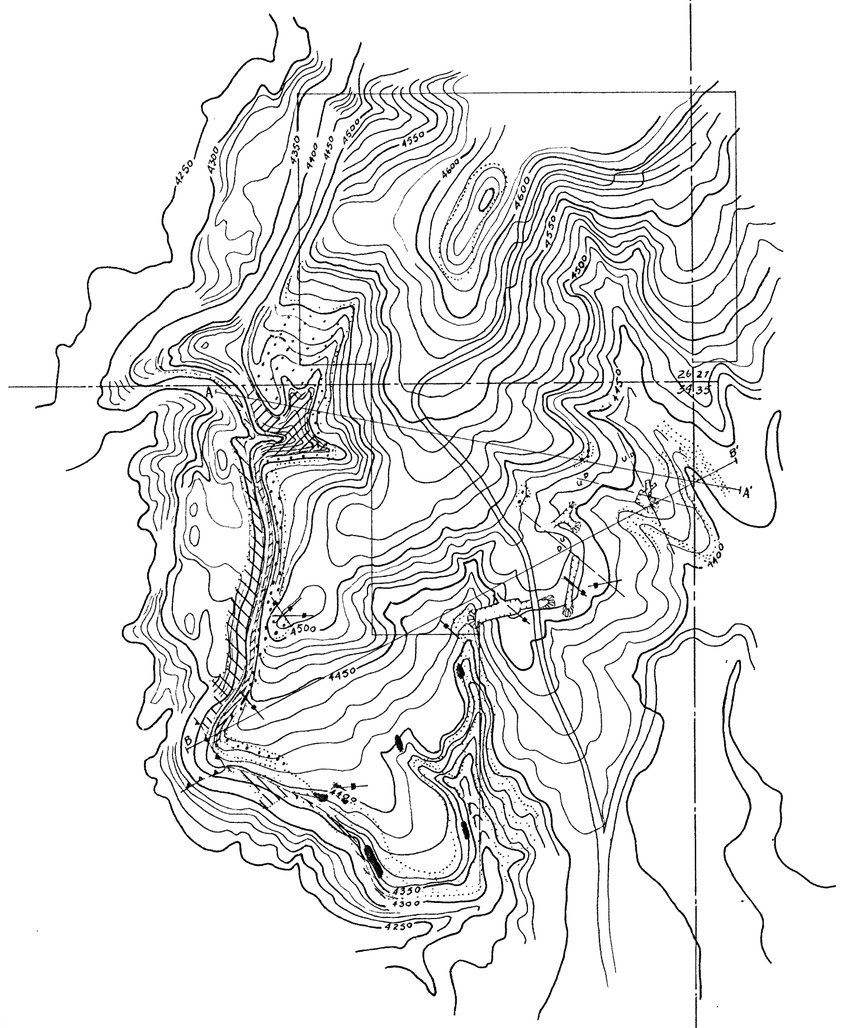
50

Depth to base of lower sandstone

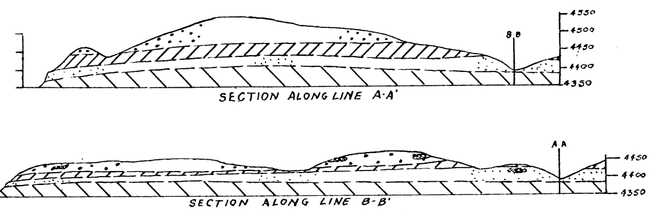



STRUCTURE CONTOURS, BASE OF LOWER SANDSTONE
1" = 600

MATIAS PEAK CLAIM GROUP, IDM-E-517
W.A. Broaddock, April 28, 1954




1" = 600'




SECTION ALONG LINE A-A'




SECTION ALONG LINE B-B'

Vertical scale - 1" = 300'
Horizontal scale 1" = 600'

EXPLANATION

Upper sandstone

Interbedded mudstone and sandstone

Lower sandstone

Carbonaceous shale

Carnotite

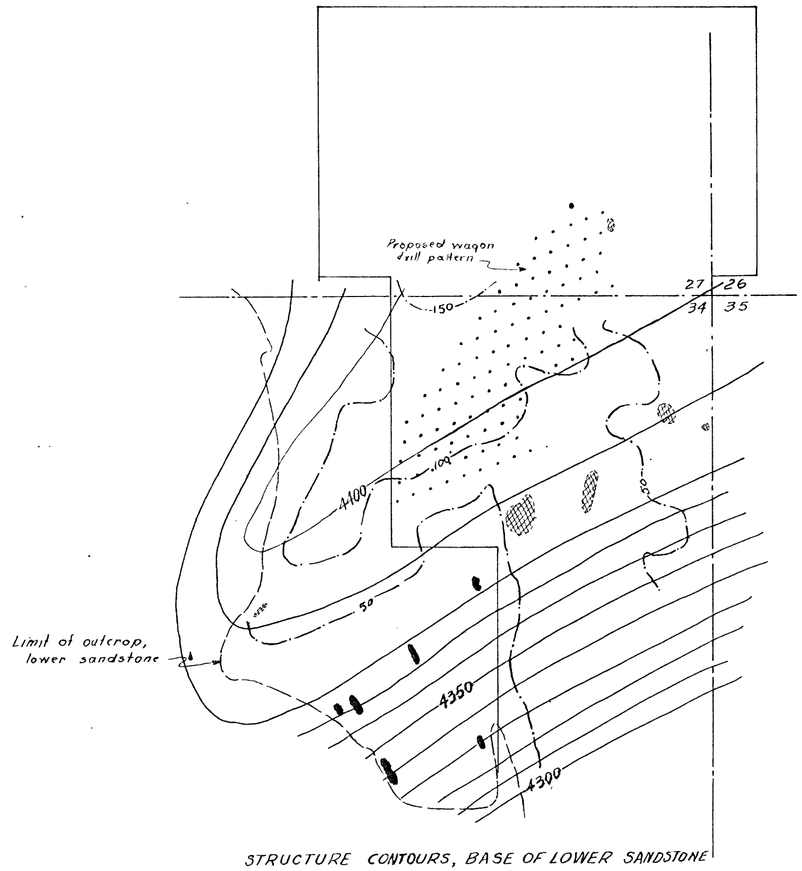
Carbonate bearing sandstone

Contact

Limit of exposure

50

Depth to base of lower sandstone

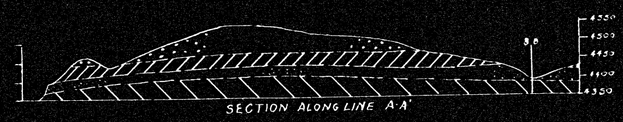



STRUCTURE CONTOURS, BASE OF LOWER SANDSTONE
1" = 600

MATIAS PEAK CLAIM GROUP, IDM-E-517

W.A. Broadbent, April 28, 1954

1" = 600'




SECTION ALONG LINE A-A'

SECTION ALONG LINE B-B'

Vertical scale - 1" = 300'
Horizontal scale 1" = 600'

## EXPLANATION

Upper sandstone

Interbedded mudstone and sandstone

Lower sandstone

Carbonaceous shale

Carnotite

Carbonate bearing sandstone

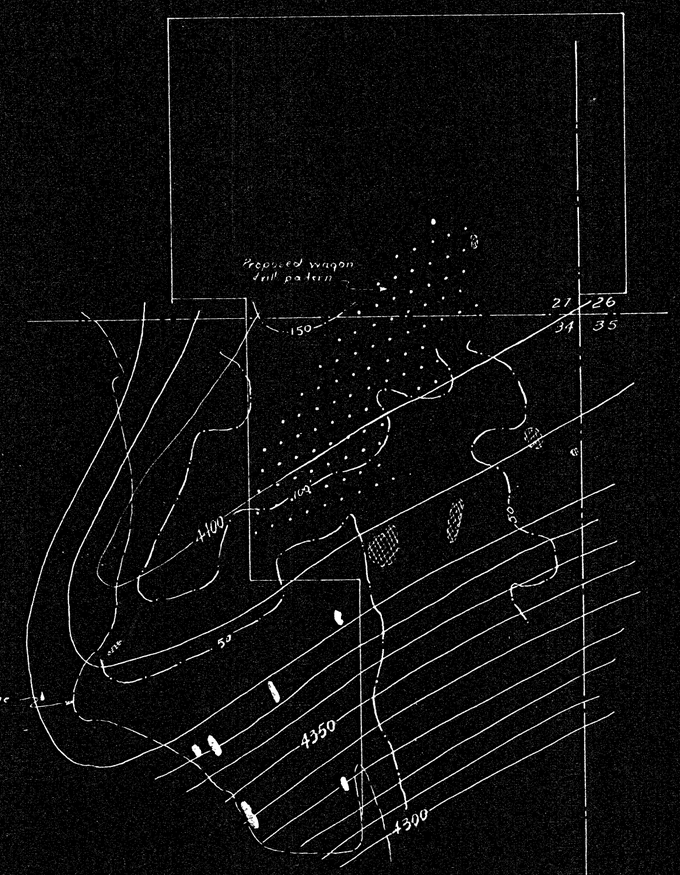
Contact

Limit of exposure

50

Depth to base of lower sandstone

Limit of outcrop, lower sandstone




STRUCTURE CONTOURS, BASE OF LOWER SANDSTONE
1" = 600

MATIAS PEAK CLAIM GROUP, IDM-E-517
H.A. Brindock, April 28, 1954

# PROGRESS MAP
# FOR
# WAGON DRILLING

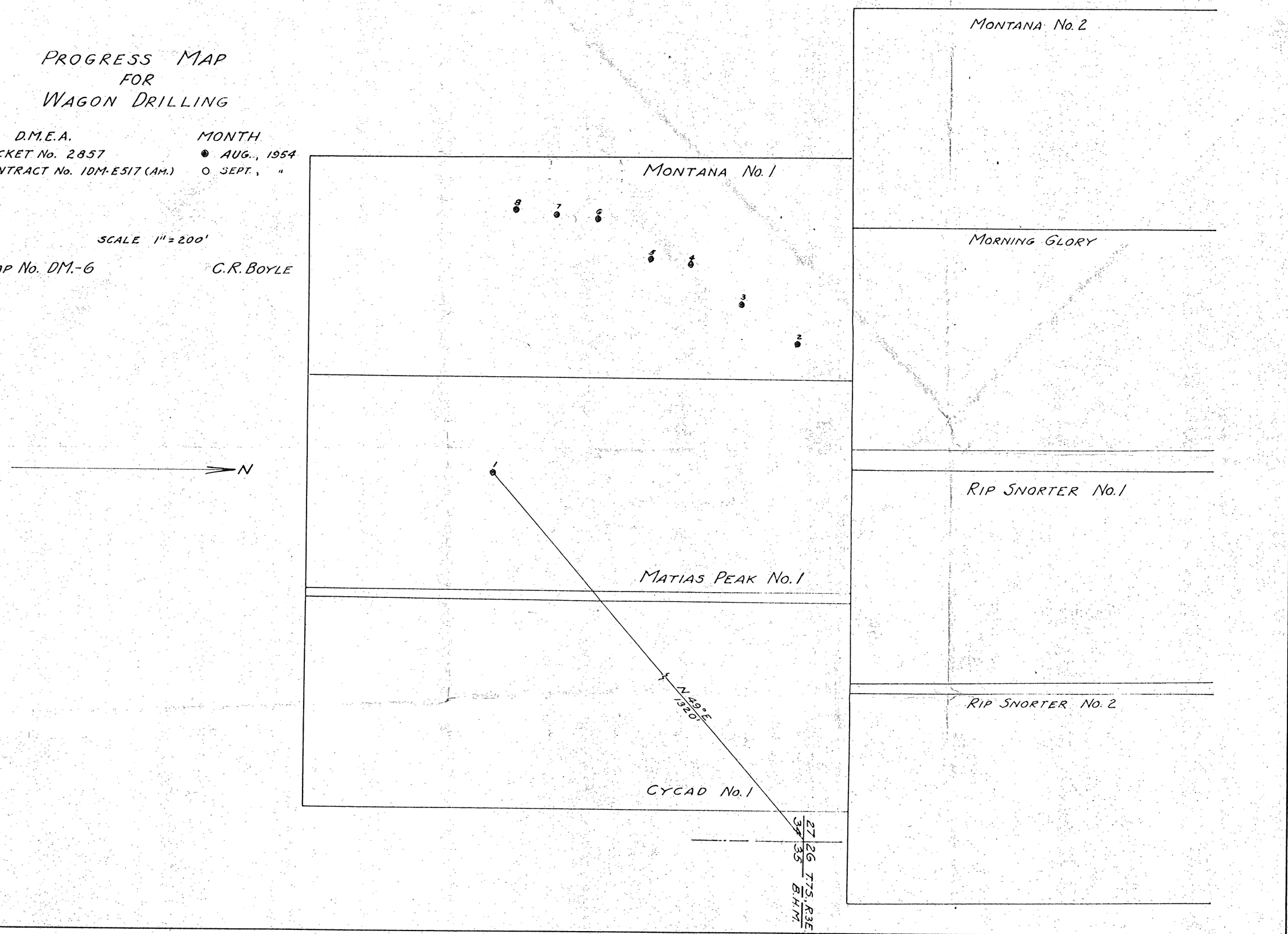
D.M.E.A.
DOCKET No. 2857
CONTRACT No. 10M-E517 (AM.)

MONTH
● AUG., 1954
○ SEPT., "

SCALE 1" = 200'

MAP No. DM.-6

C.R. BOYLE



# PROGRESS MAP
# FOR
# WAGON DRILLING

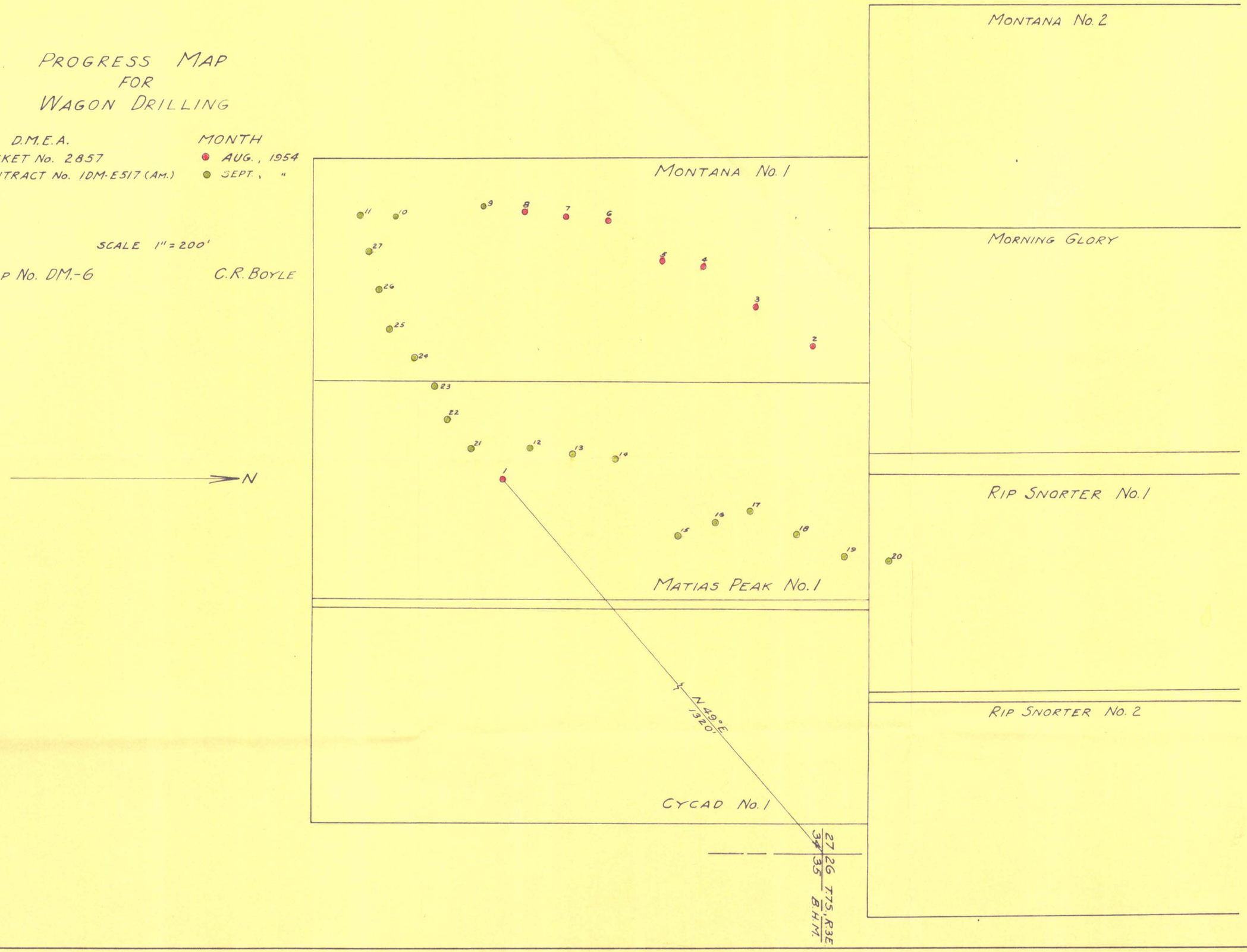
D.M.E.A.
DOCKET No. 2857
CONTRACT No. 1DM-E517 (AM.)

MONTH
● AUG., 1954
● SEPT., "

SCALE 1" = 200'

MAP No. DM.-6

C.R. BOYLE



# PROGRESS MAP FOR WAGON DRILLING

D.M.E.A.
DOCKET No. 2857
CONTRACT No. 1DM-E517 (AM.)

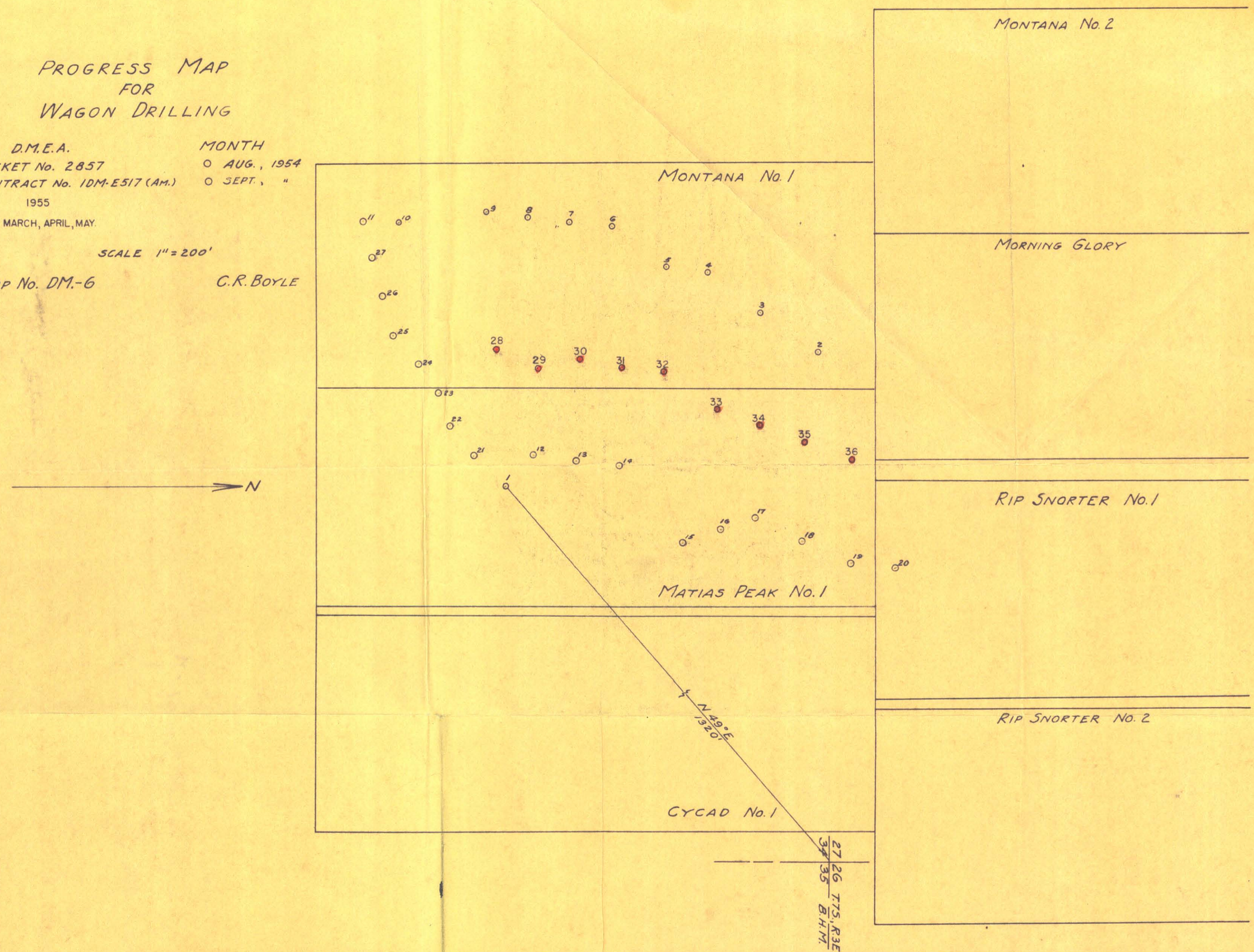
MONTH
○ AUG., 1954
○ SEPT., "

1955
● MARCH, APRIL, MAY.

SCALE 1" = 200'

MAP No. DM.-6

C.R. BOYLE



# PROGRESS MAP FOR WAGON DRILLING

D.M.E.A.
DOCKET No. 2857
CONTRACT No. 1DM-E517 (AM.)

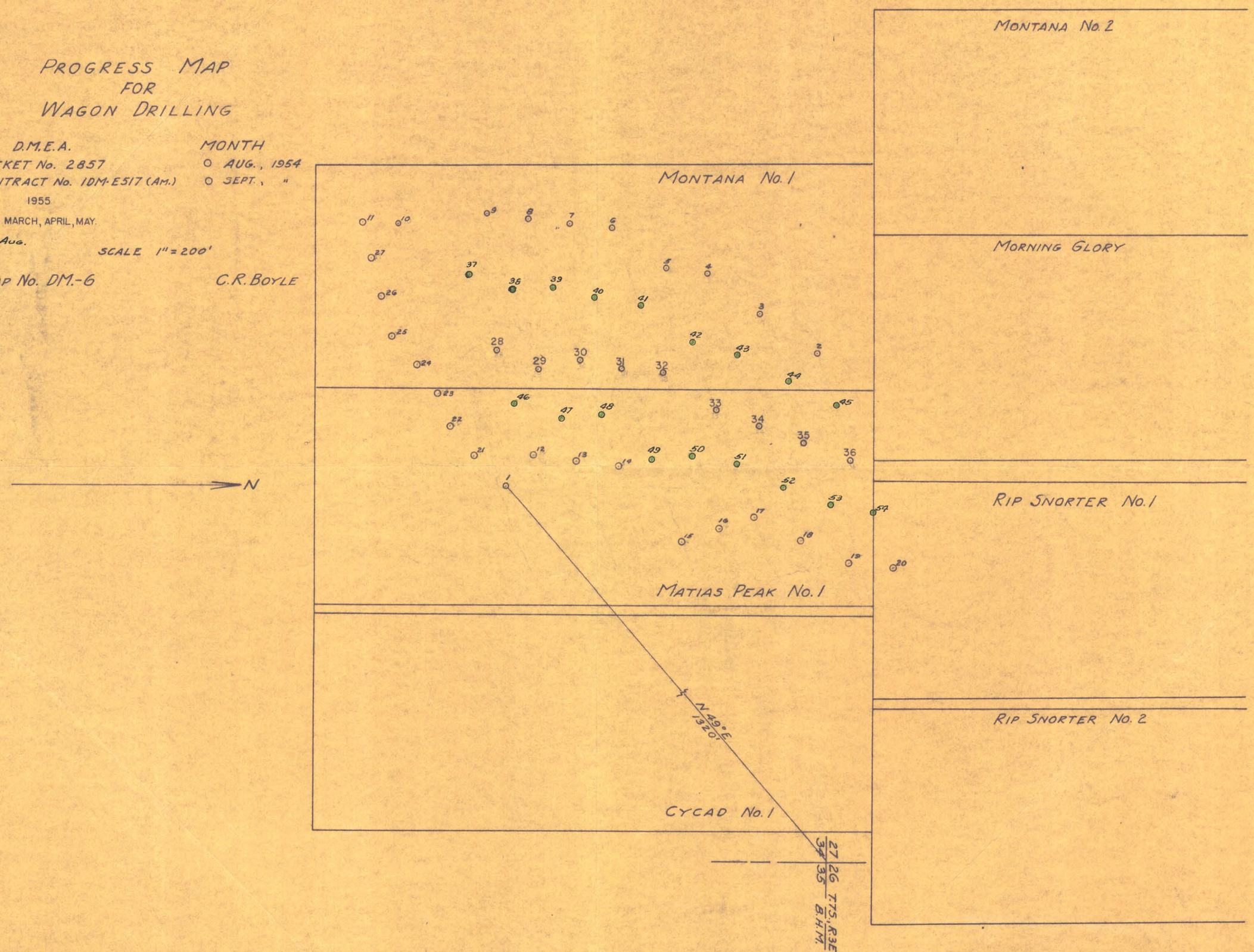
MONTH
○ AUG., 1954
○ SEPT., "

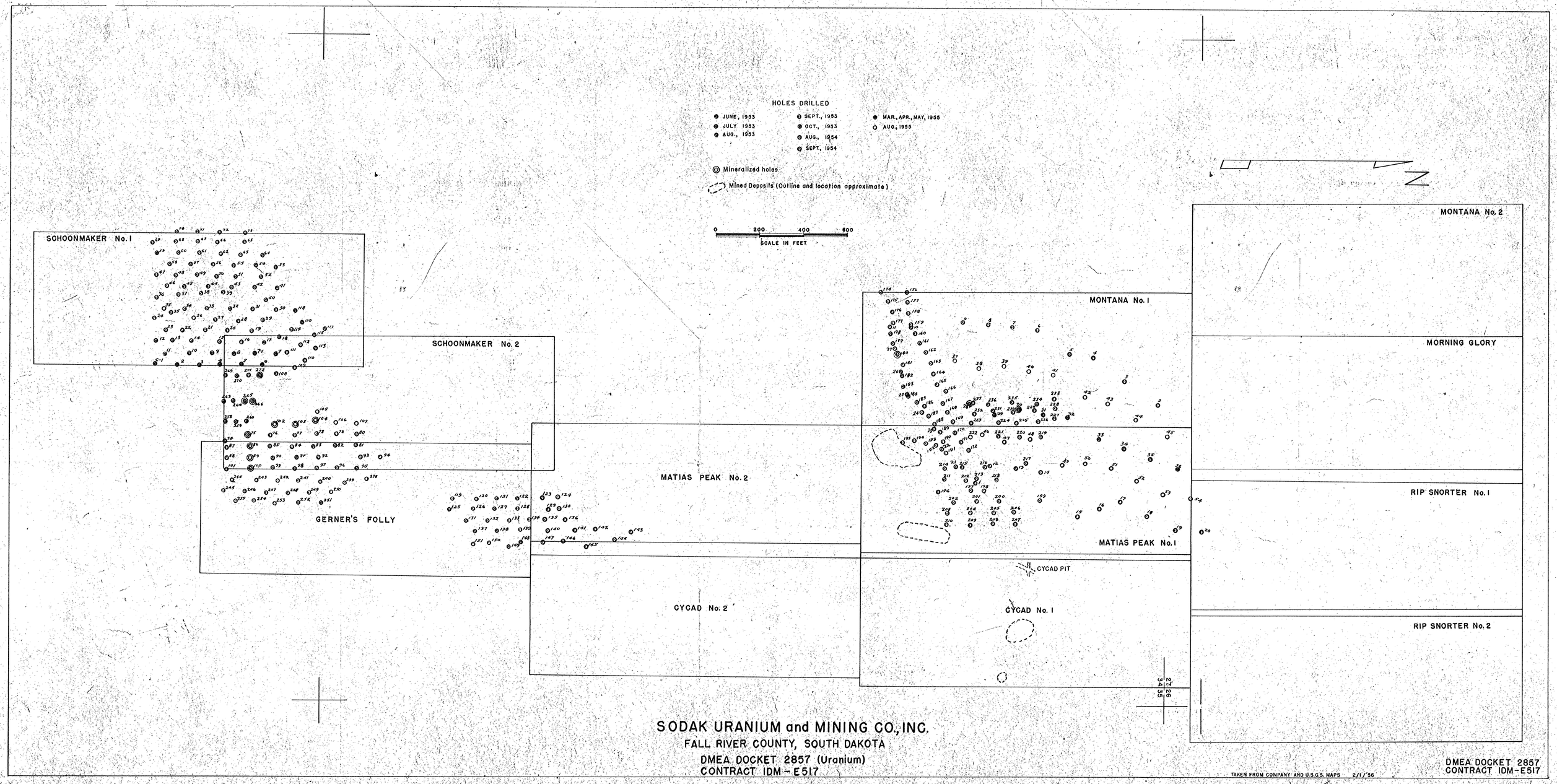
1955
○ MARCH, APRIL, MAY.
● AUG.

SCALE 1" = 200'

MAP No. DM-6

C.R. BOYLE

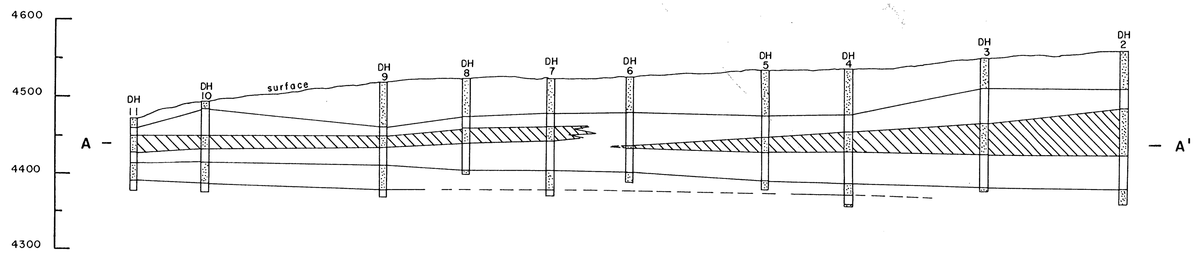


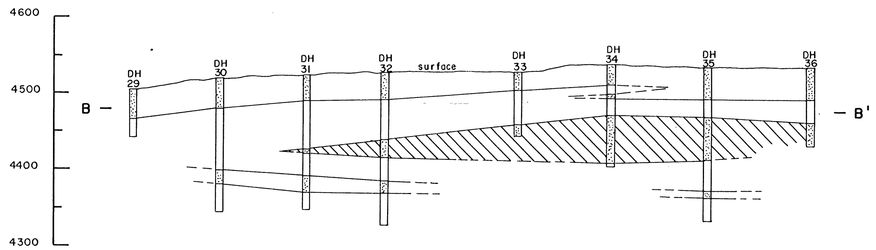


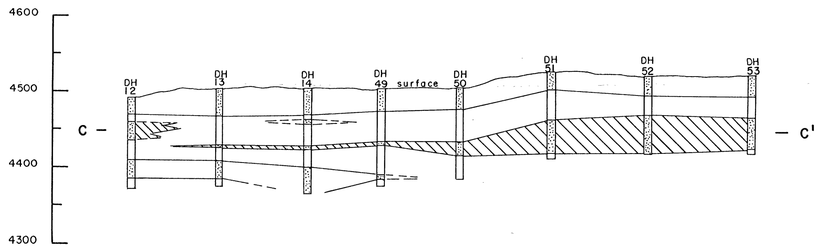

SODAK URANIUM and MINING CO., INC.
FALL RIVER COUNTY, SOUTH DAKOTA
DMEA DOCKET 2857 (Uranium)
CONTRACT IDM-E517

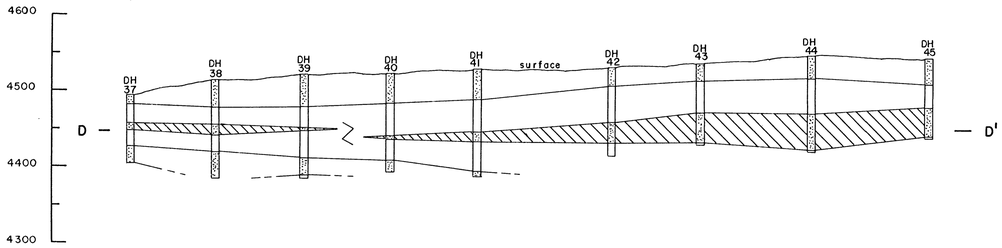
TAKEN FROM COMPANY AND U.S.G.S. MAPS 2/1/56

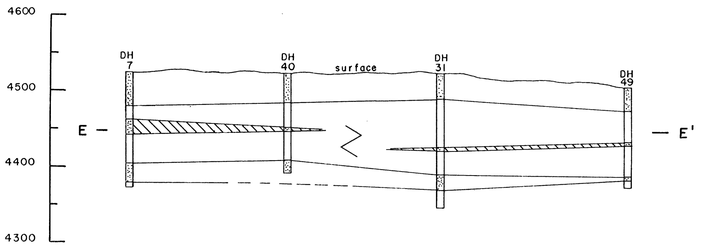
DMEA DOCKET 2857
CONTRACT IDM-E517



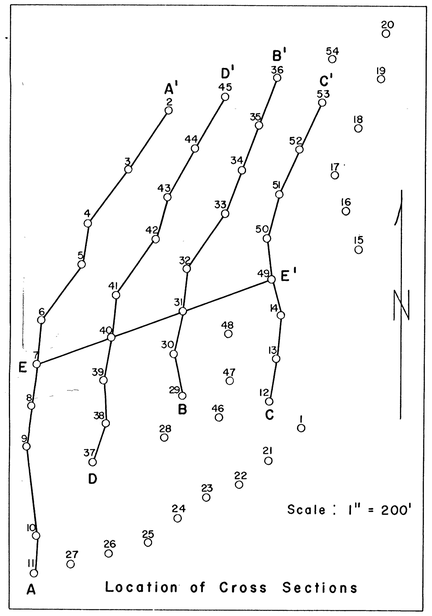



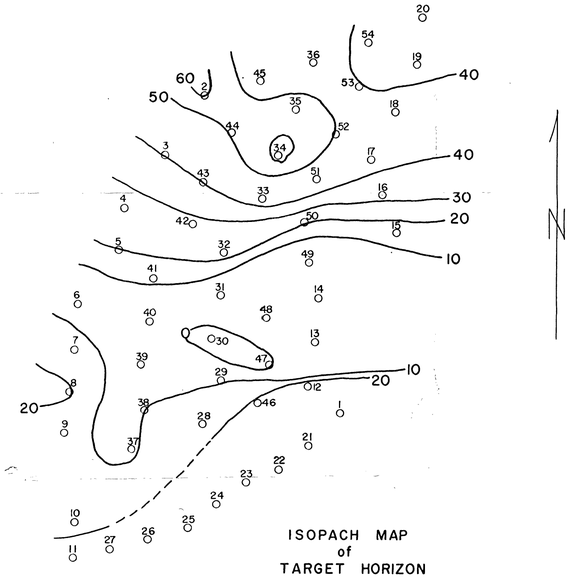




LEGEND

- Sandstone
- Shale
- Target Horizon




Location of Cross Sections




ISOPACH MAP
of
TARGET HORIZON

Contour Interval = 10'

# PLAN & SECTIONS of DRILL HOLES

STAGE I - PHASE II
D.M.E.A. - Docket No. 2857
Contract No. IDM - E517 (AM)

Scale 1" = 100'  6-25-56

SODAK URANIUM
& MINING CO., INC.
HOT SPRINGS, SOUTH DAKOTA
Map No. DM-7  T.A.M.

# PROGRESS MAP FOR WAGON DRILLING

D.M.E.A.
DOCKET No. 2857
CONTRACT No. 1DM-E517 (AM.)

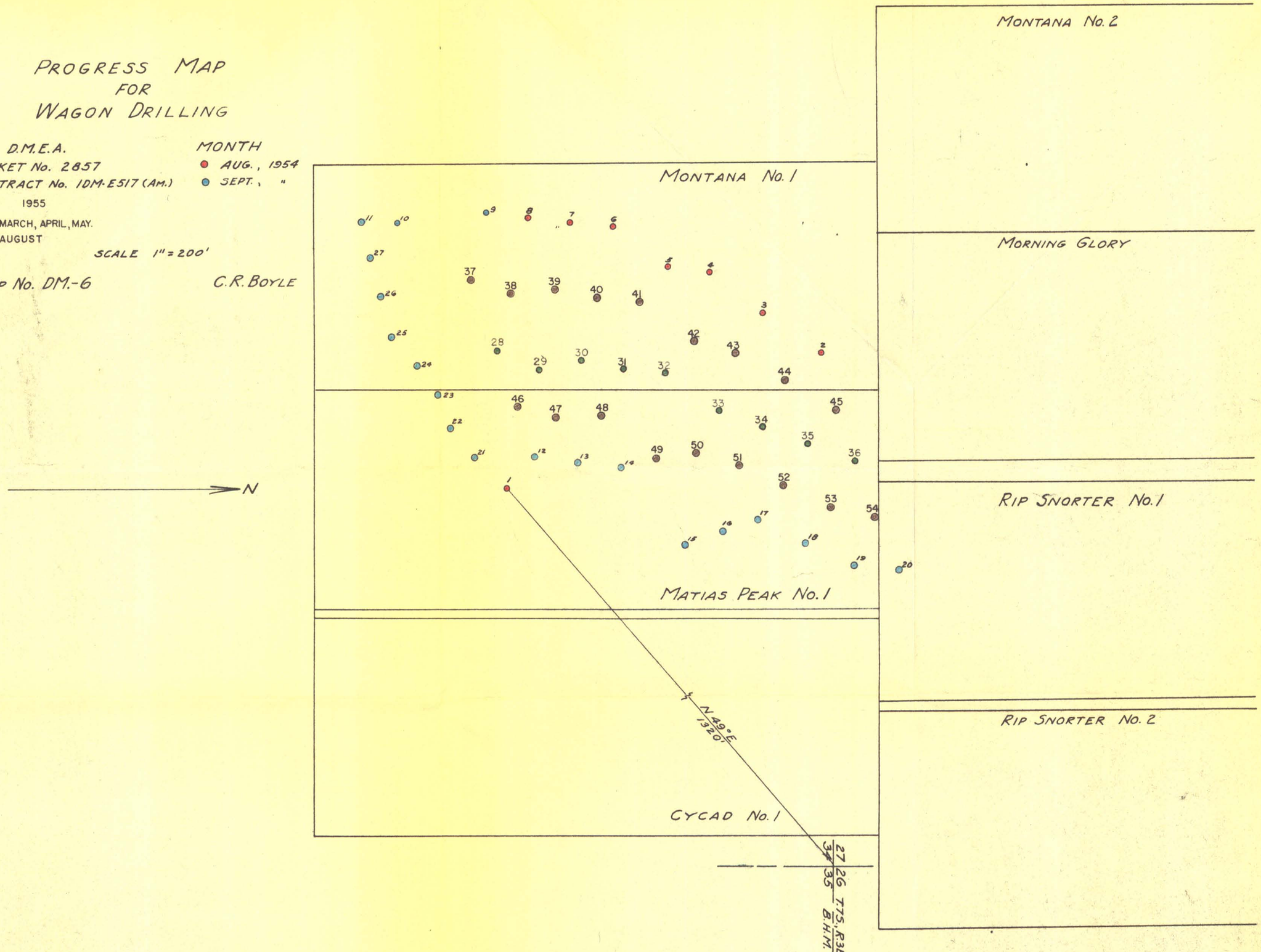
MONTH
● AUG., 1954
● SEPT., "

1955
● MARCH, APRIL, MAY.
● AUGUST

SCALE 1" = 200'

MAP No. DM.-6

C.R. BOYLE



# PROGRESS MAP
# FOR
# WAGON DRILLING

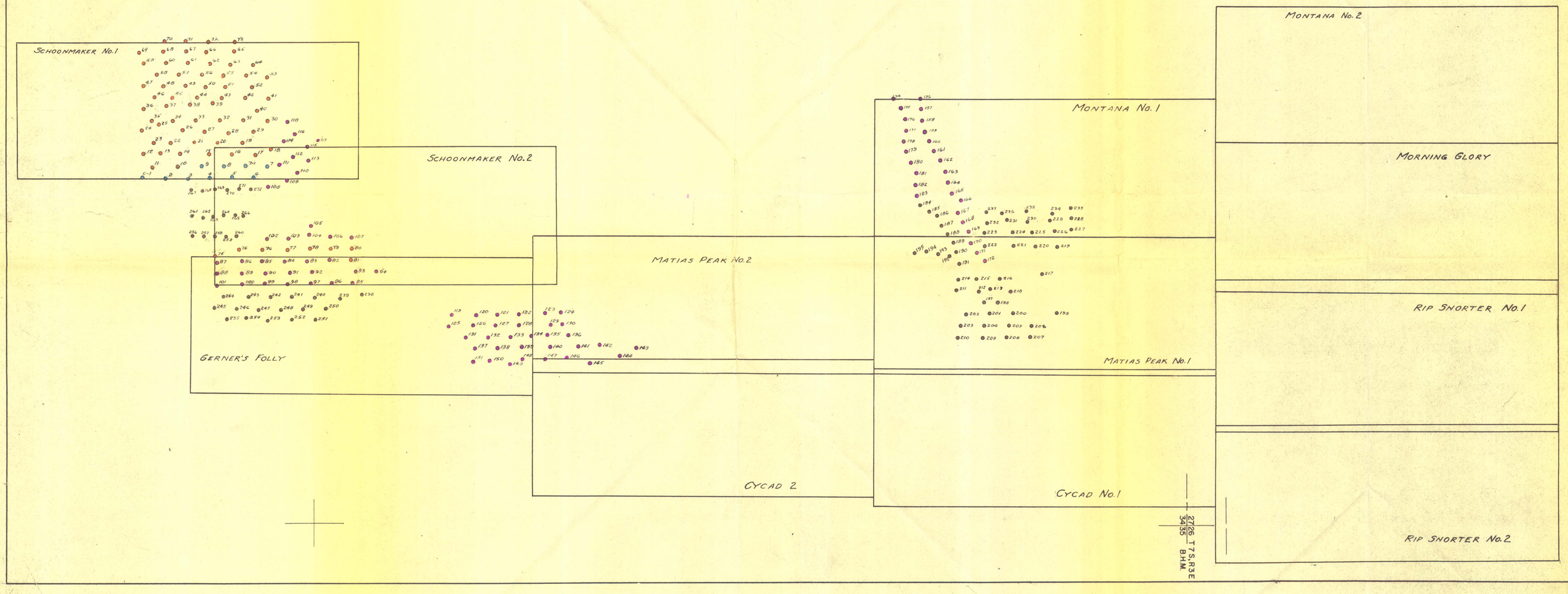
DMEA
DOCKET No. 2857
CONTRACT No. 1DM-E517

MONTH
JUNE, 1953
JULY, "
AUG., "
SEPT., 1953
OCT., "

SCALE 1" = 200'

MAP No. DM-4

C.R. BOYLE



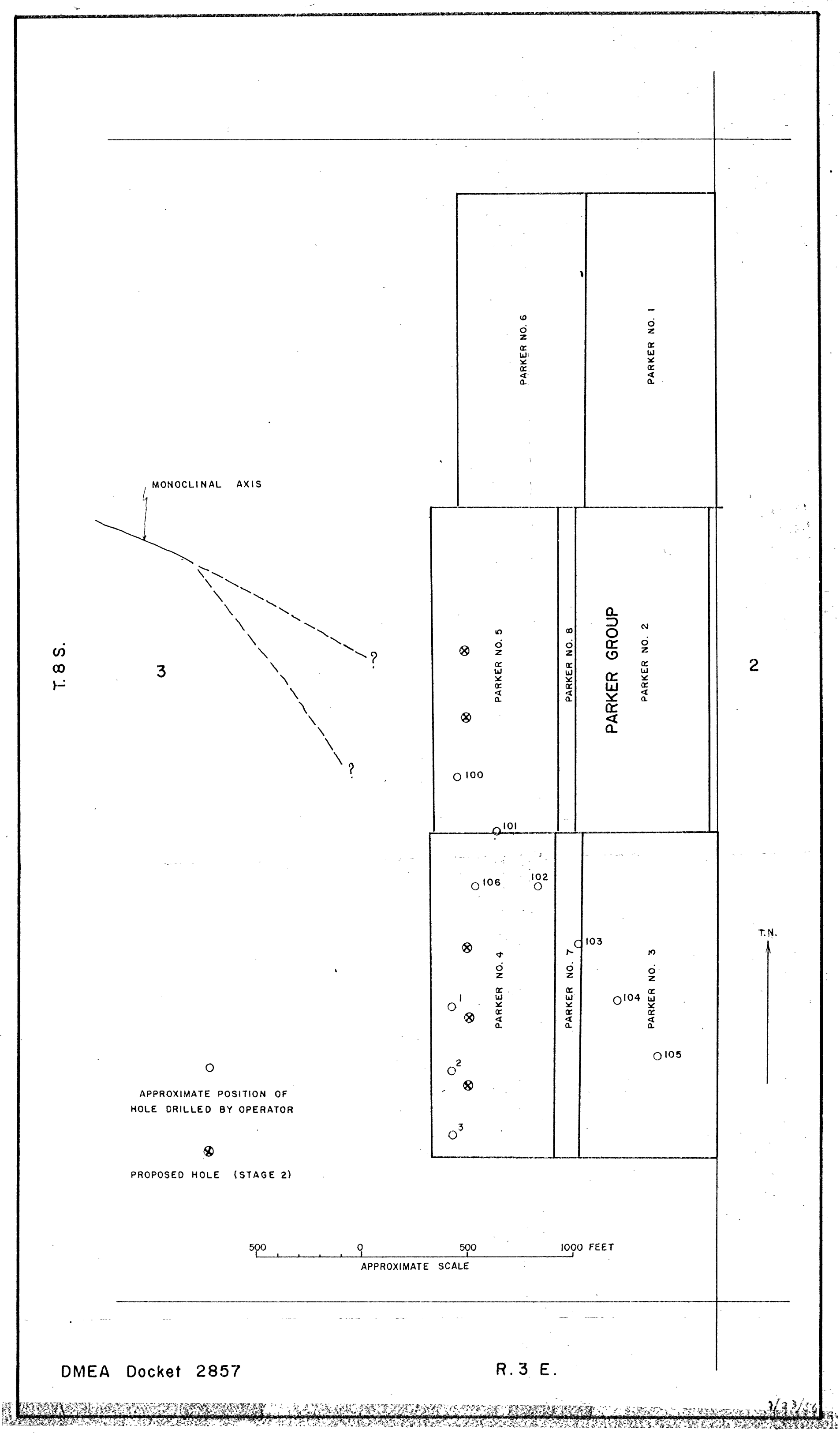



FIGURE 5 - PROPOSED DRILL HOLES IN THE PARKER CLAIM GROUP
FALL RIVER COUNTY, SOUTH DAKOTA

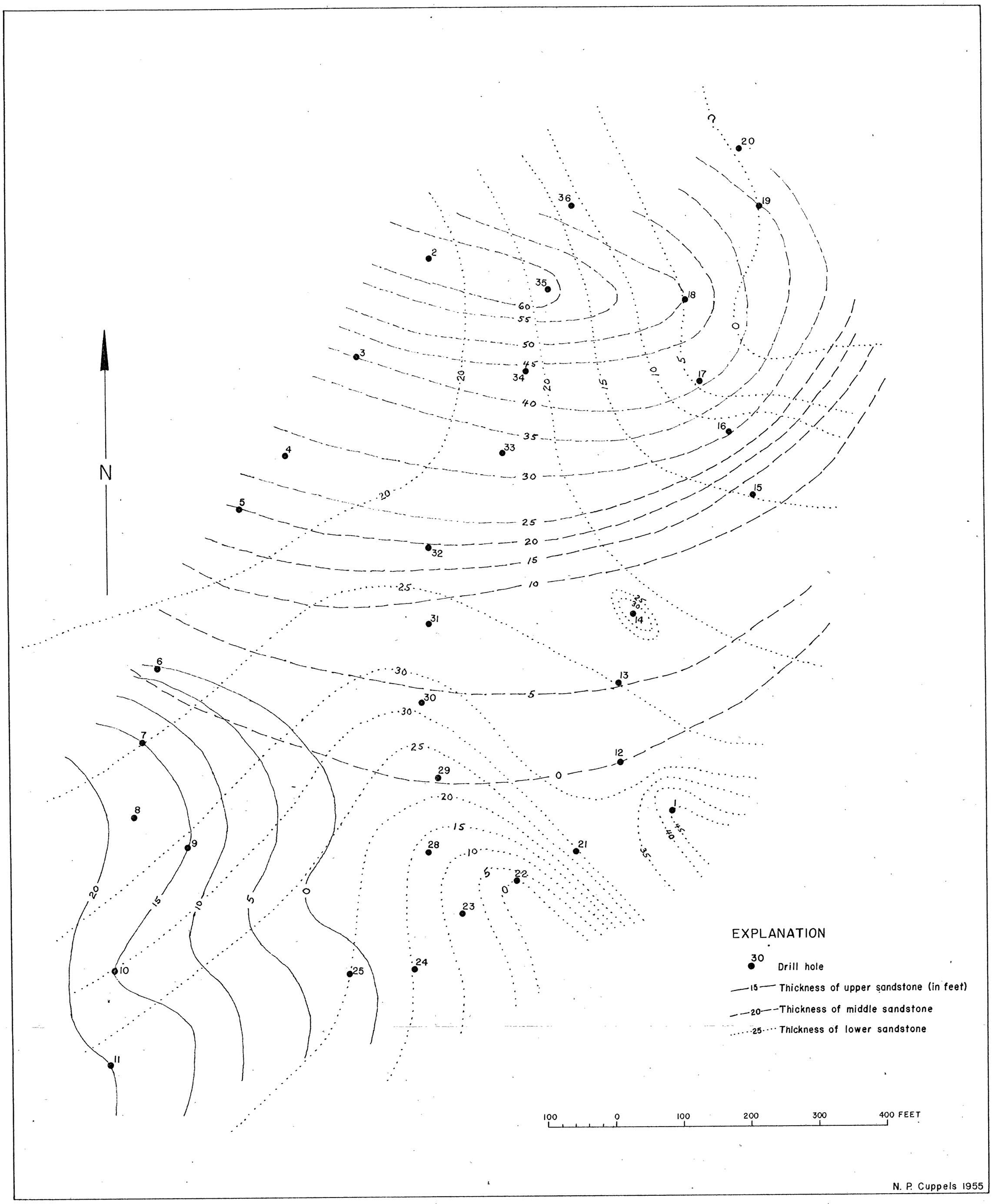



FIGURE 6 - ISOPACH MAP OF SANDSTONE BEDS IN MIDDLE LAKOTA SANDSTONE
MONTANA NO. I AND MATIAS PEAK NO. I CLAIMS
EDGEMONT MINING DISTRICT
FALL RIVER COUNTY, SOUTH DAKOTA
DMEA DOCKET 2857

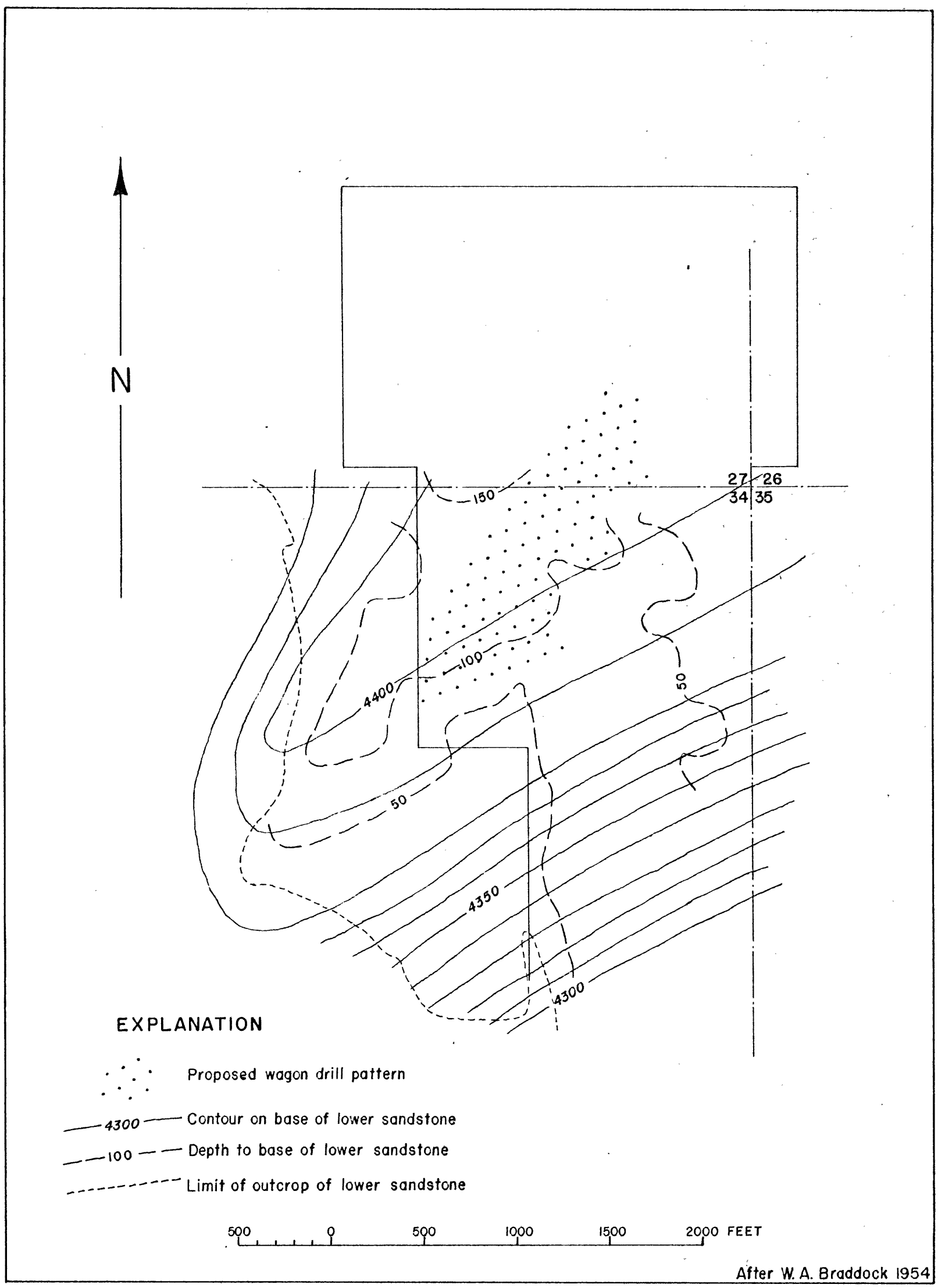



FIGURE 4 - STRUCTURE CONTOURS ON BASE OF LOWER SANDSTONE UNIT OF THE LAKOTA SANDSTONE

MATIAS PEAK CLAIM GROUP

FALL RIVER COUNTY, SOUTH DAKOTA

DMEA DOCKET 2857

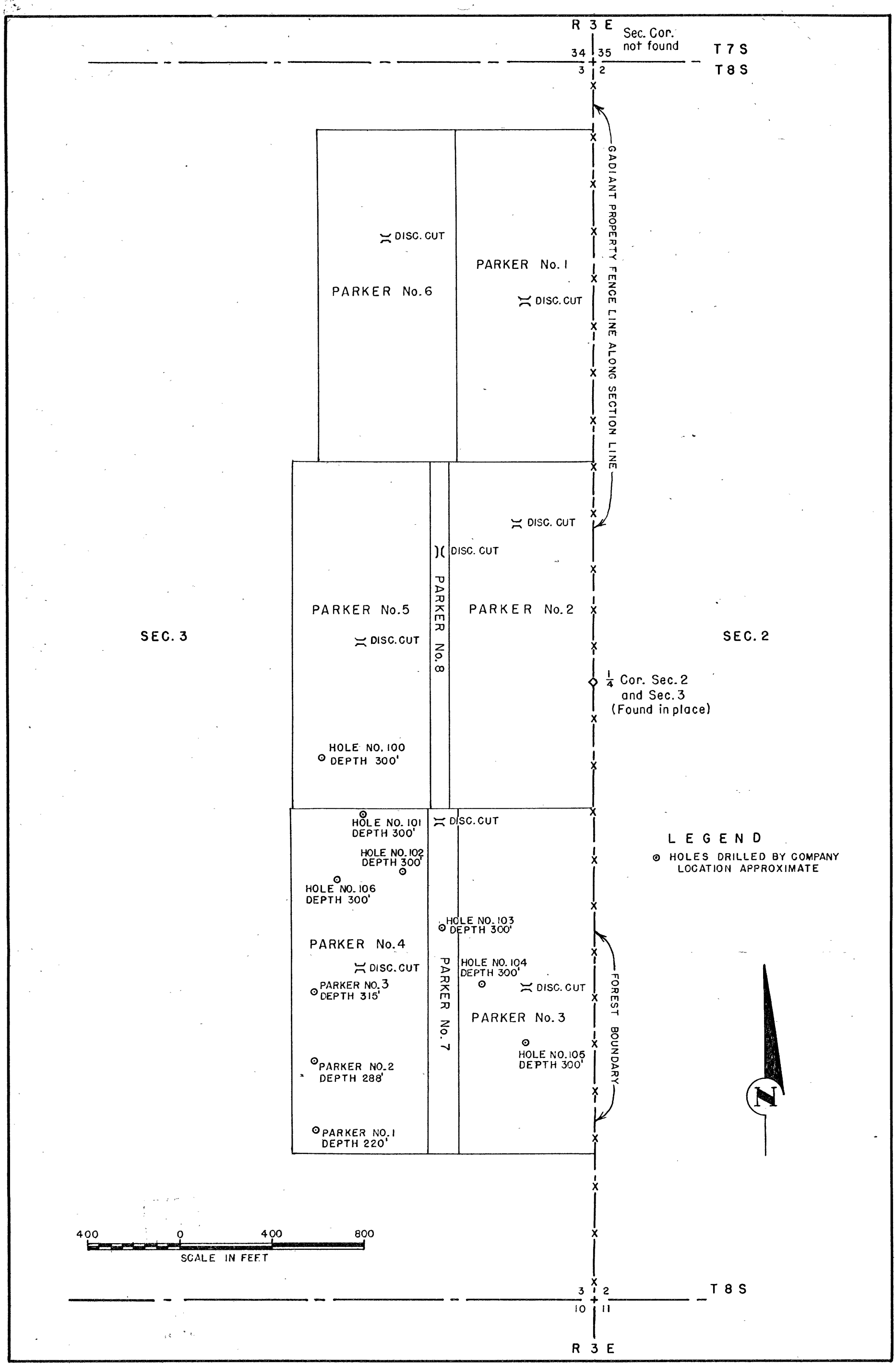



FIGURE 3 - MAP OF PARKER CLAIMS, SODAK URANIUM AND MINING COMPANY, INC., FALL RIVER COUNTY, SOUTH DAKOTA. DMEA 2857, CONTRACT Idm-E 517

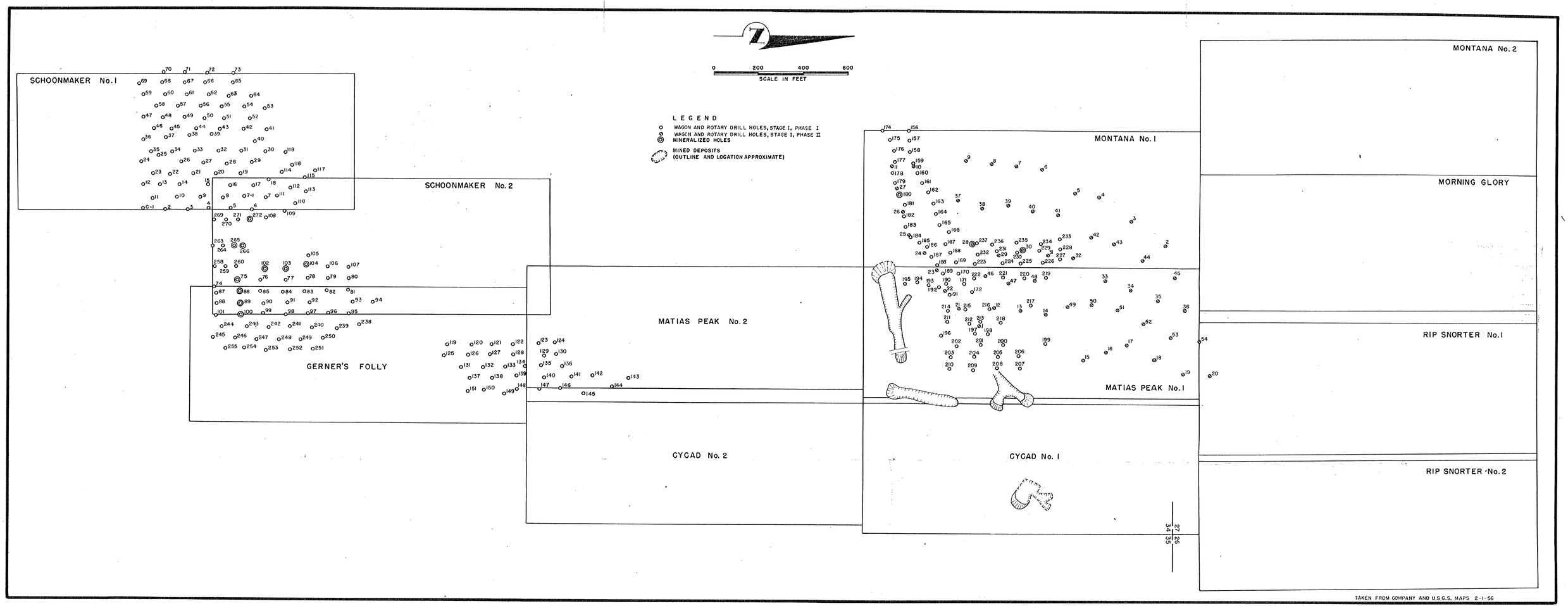
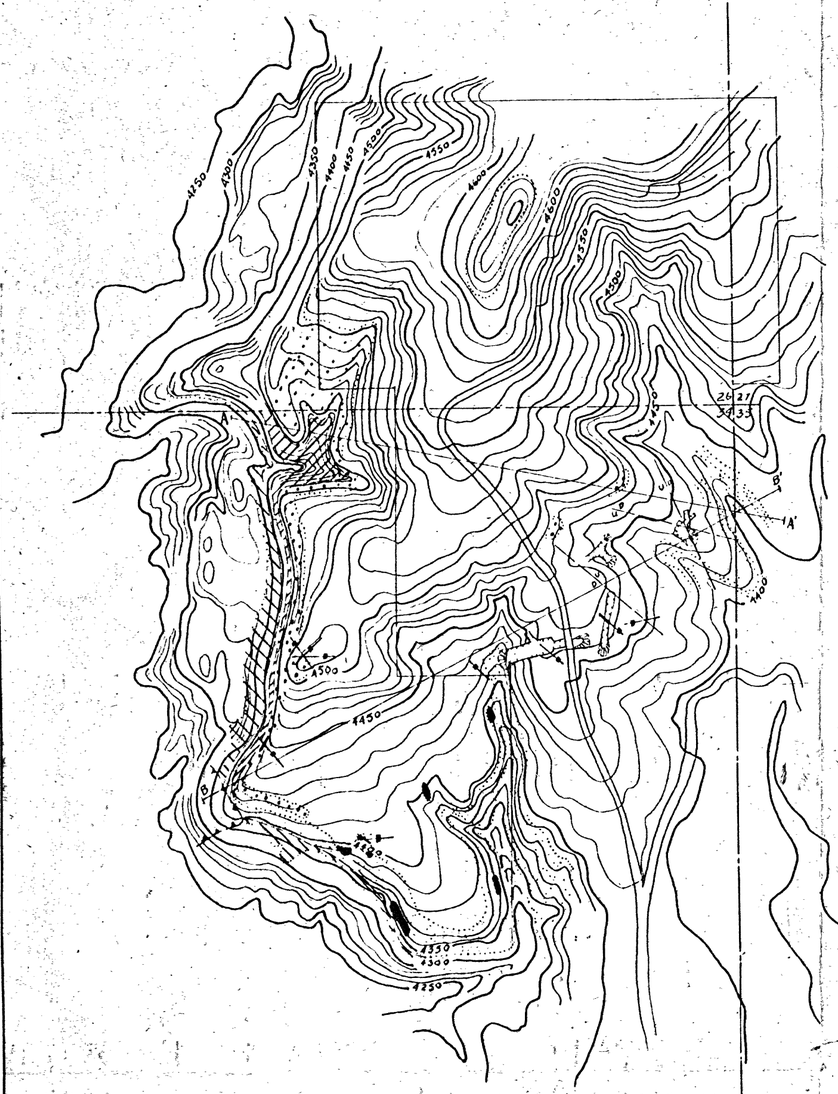
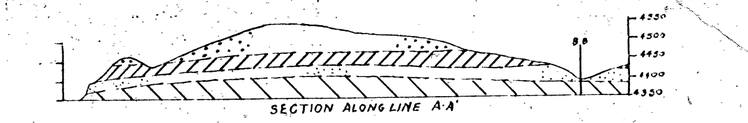
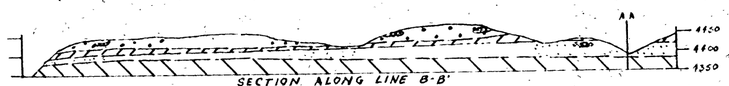



FIGURE 2 - MAP OF RIP SNORTER CLAIM GROUP, SODAK URANIUM AND MINING COMPANY, INC., FALL RIVER COUNTY, SOUTH DAKOTA, DMEA 2857 (URANIUM), CONTRACT Idm-E517




SECTION ALONG LINE A-A'



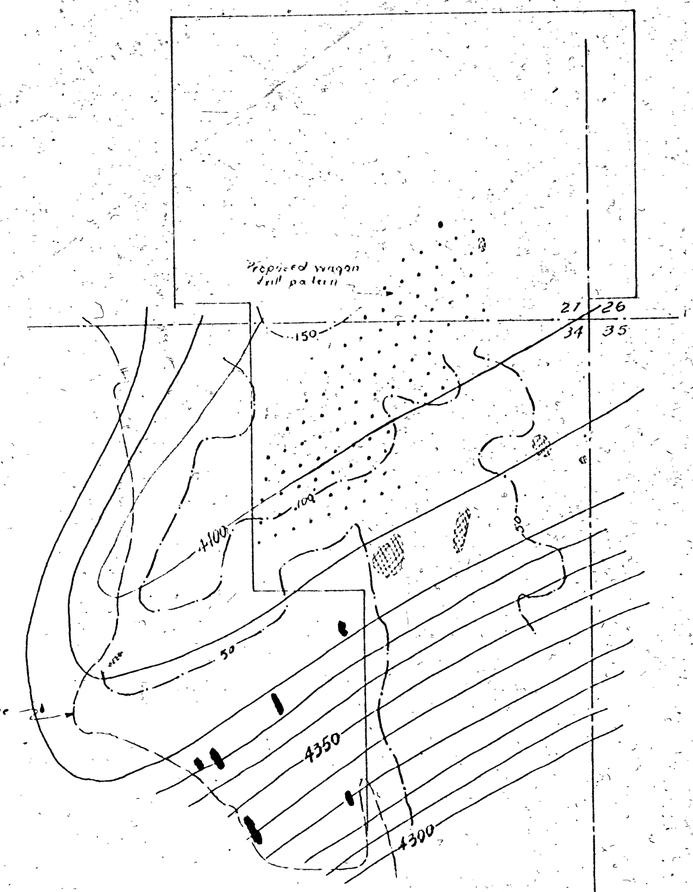

SECTION ALONG LINE B-B'

Vertical scale - 1" = 300'
Horizontal scale 1" = 600'

## EXPLANATION

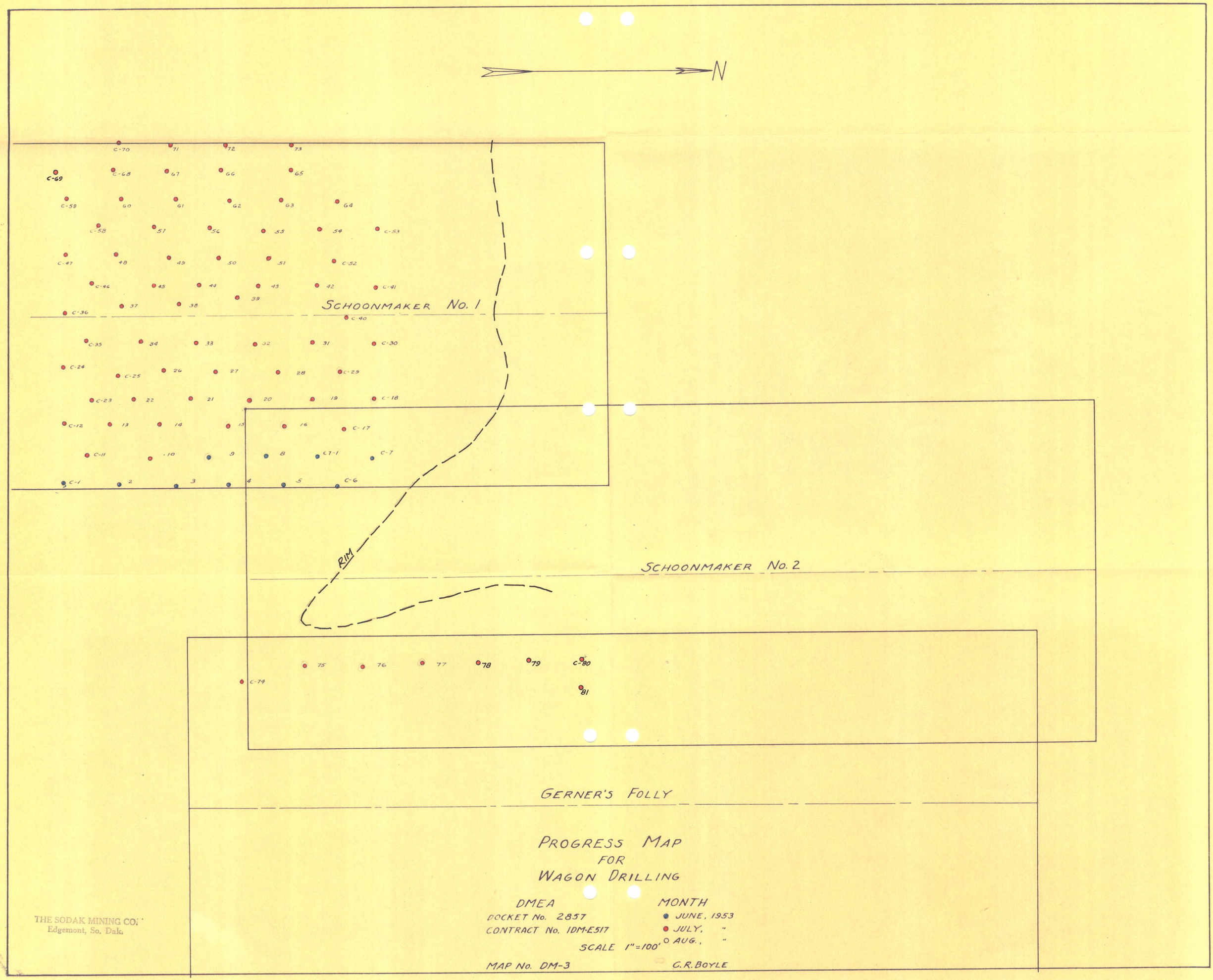
- Upper sandstone
- Interbedded mudstone and sandstone
- Lower sandstone
- Carbonaceous shale
- Carnotite
- Carbonate bearing sandstone
- Contact
- Limit of exposure
- 50 — Depth to base of lower sandstone

Limit of outcrop, lower sandstone




STRUCTURE CONTOURS, BASE OF LOWER SANDSTONE
1" = 600

MATIAS PEAK CLAIM GROUP, IDM-E-517
R A Brayshaw, April 28, 1954




PROGRESS MAP
FOR
WAGON DRILLING

DMEA
DOCKET No. 2857
CONTRACT No. IDM-E517
SCALE 1"=100'

MONTH
● JUNE, 1953
● JULY, "
○ AUG., "

MAP No. DM-3

G.R. BOYLE

THE SODAK MINING CO.
Edgemont, So. Dak.

# PROGRESS MAP
# FOR
# WAGON DRILLING

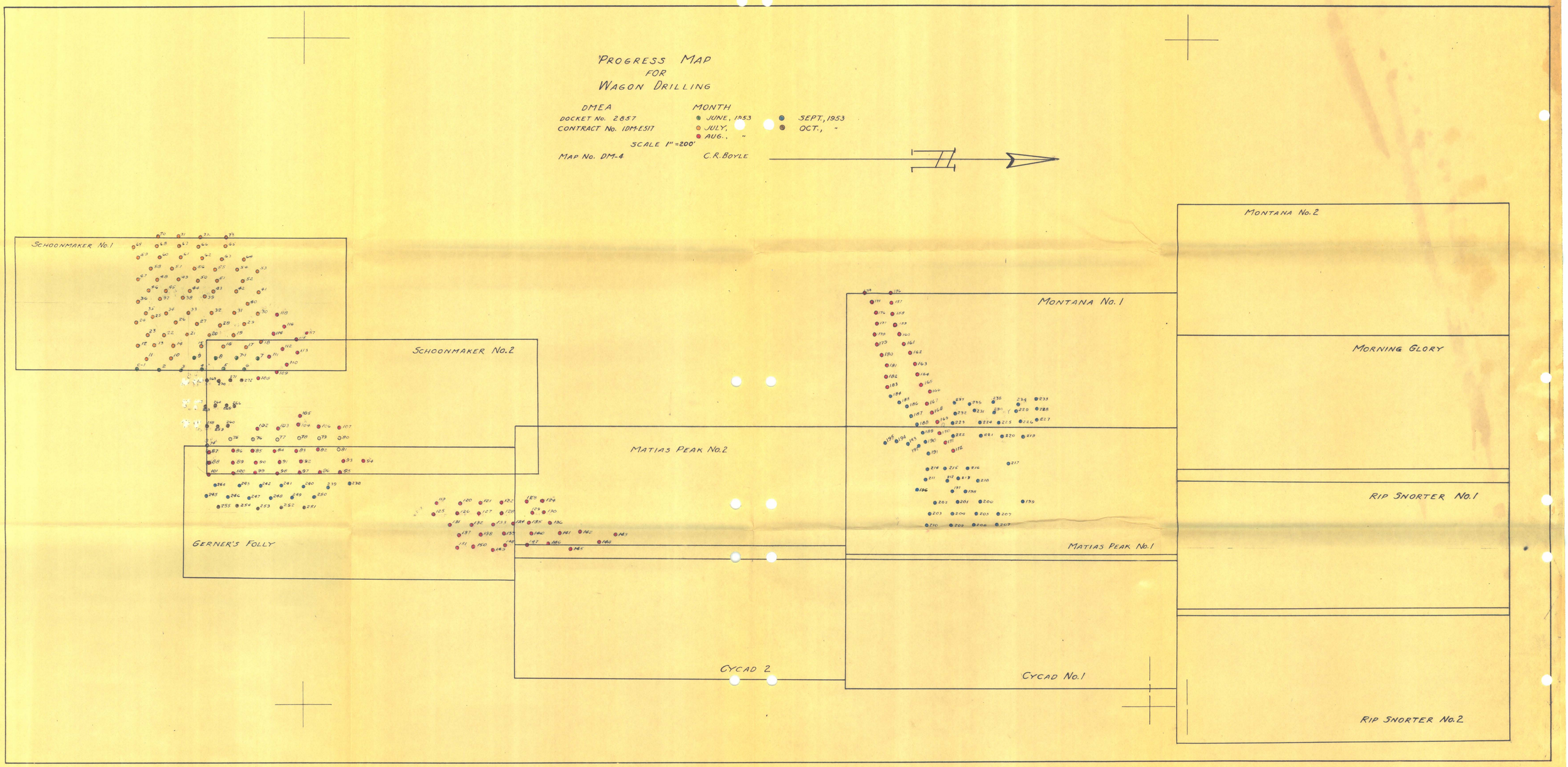
DMEA
DOCKET No. 2857
CONTRACT No. 1DM-E517

MONTH
JUNE, 1953
JULY, "
AUG., "
SEPT., 1953
OCT., "

SCALE 1" = 200'

MAP No. DM-4

C.R. BOYLE



# PROGRESS MAP
# FOR
# WAGON DRILLING

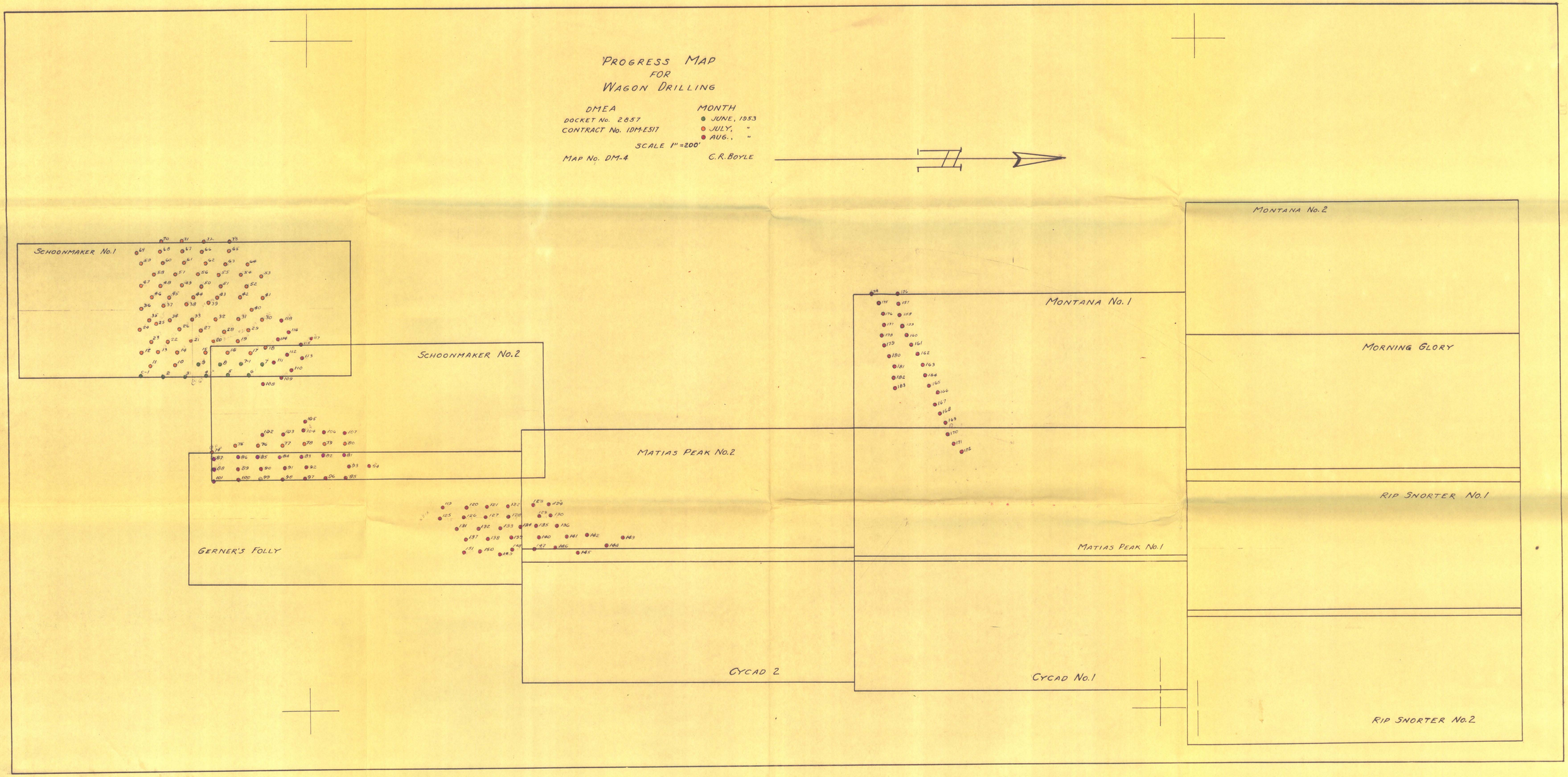
DMEA
DOCKET No. 2857
CONTRACT No. 1DM-ESIT

MONTH
● JUNE, 1953
● JULY, "
● AUG., "

SCALE 1" = 200'

MAP No. DM-4

C.R. BOYLE



# PROGRESS MAP
# FOR
# WAGON DRILLING

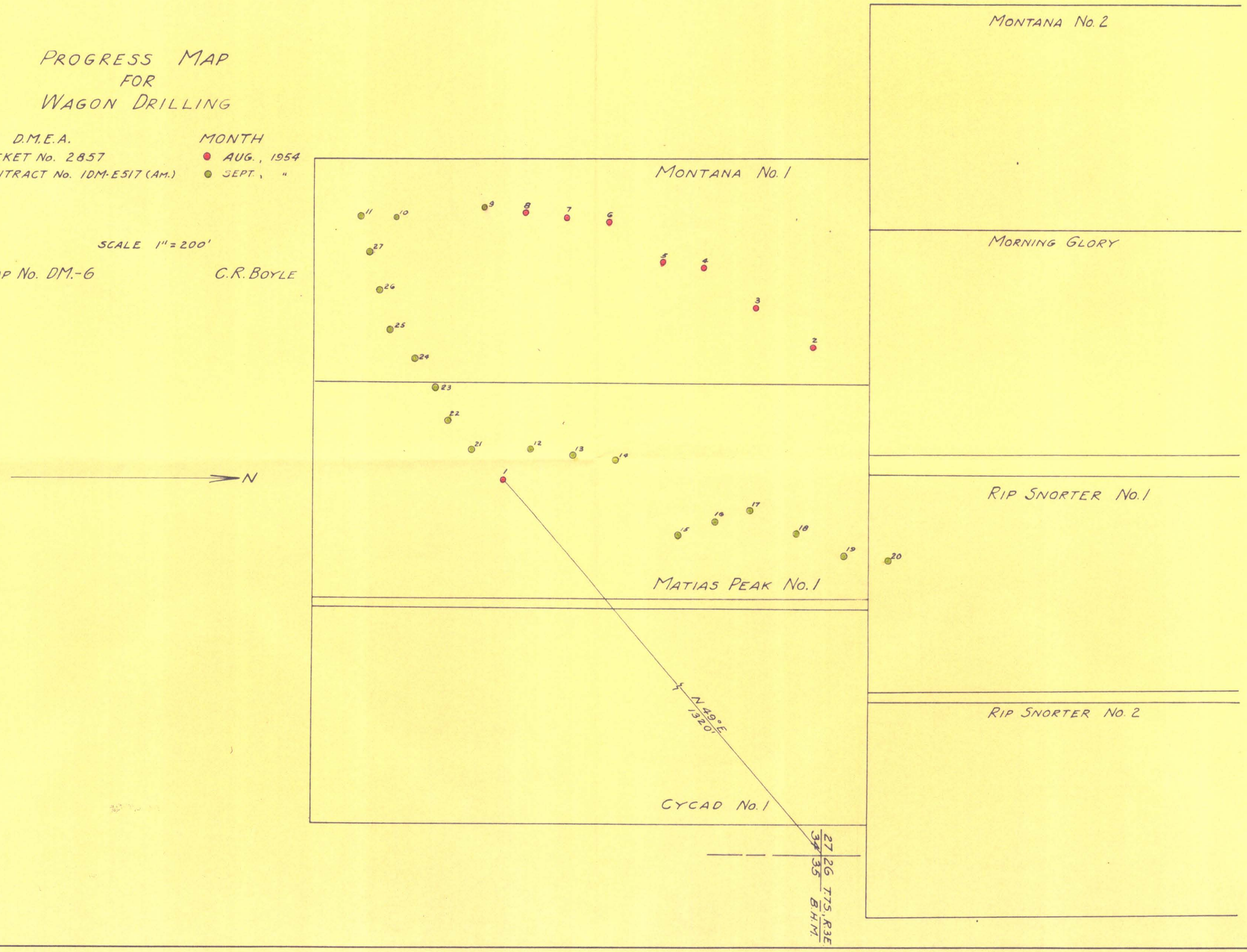
D.M.E.A.
DOCKET No. 2857
CONTRACT No. 1DM-E517 (AM.)

MONTH
● AUG., 1954
● SEPT., "

SCALE 1" = 200'

MAP No. DM.-6

C.R. BOYLE



# PROGRESS MAP
# FOR
# WAGON DRILLING

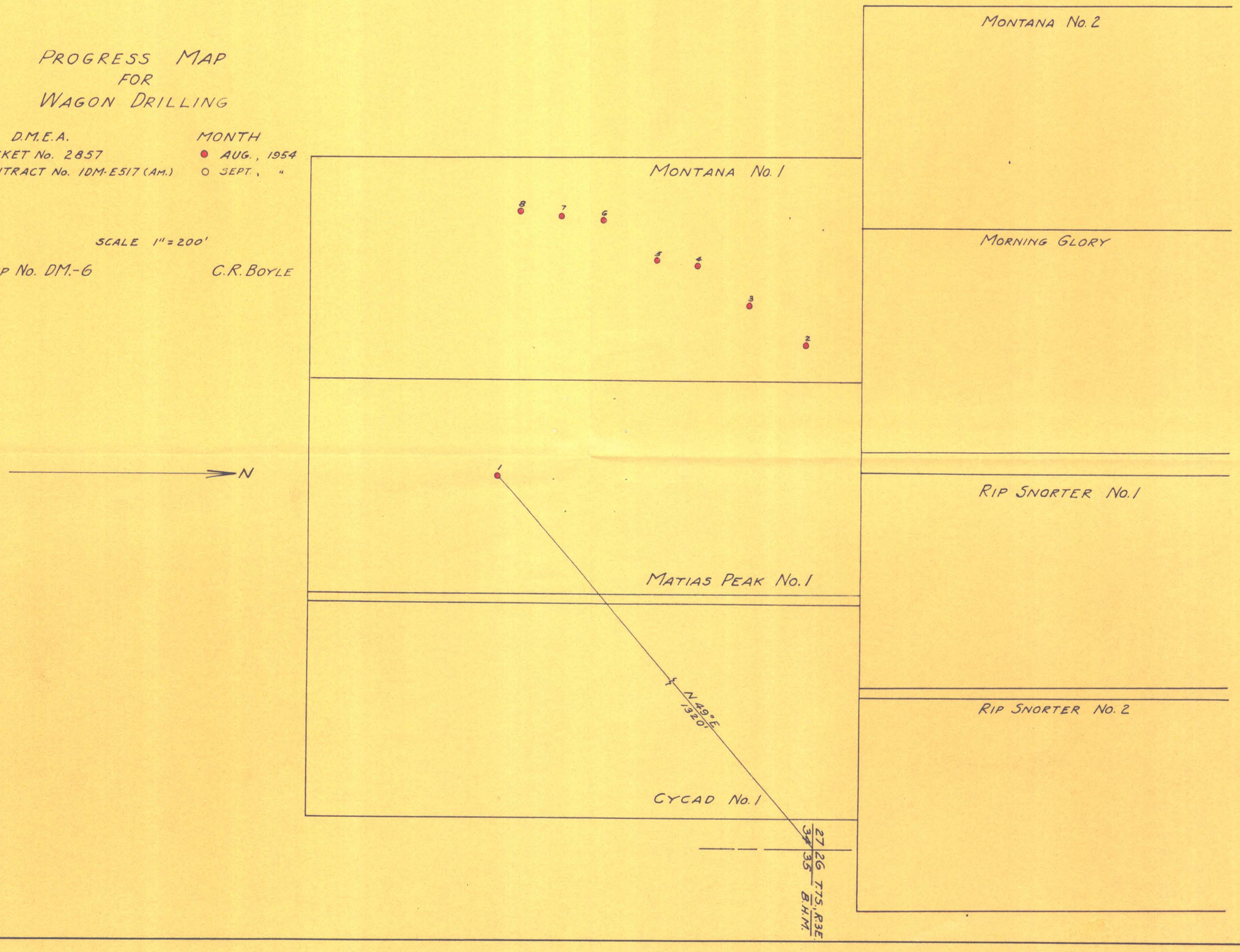
D.M.E.A.
DOCKET No. 2857
CONTRACT No. 1DM-E517 (AM.)

MONTH
● AUG., 1954
○ SEPT., "

SCALE 1" = 200'

MAP No. DM.-6

C.R. BOYLE

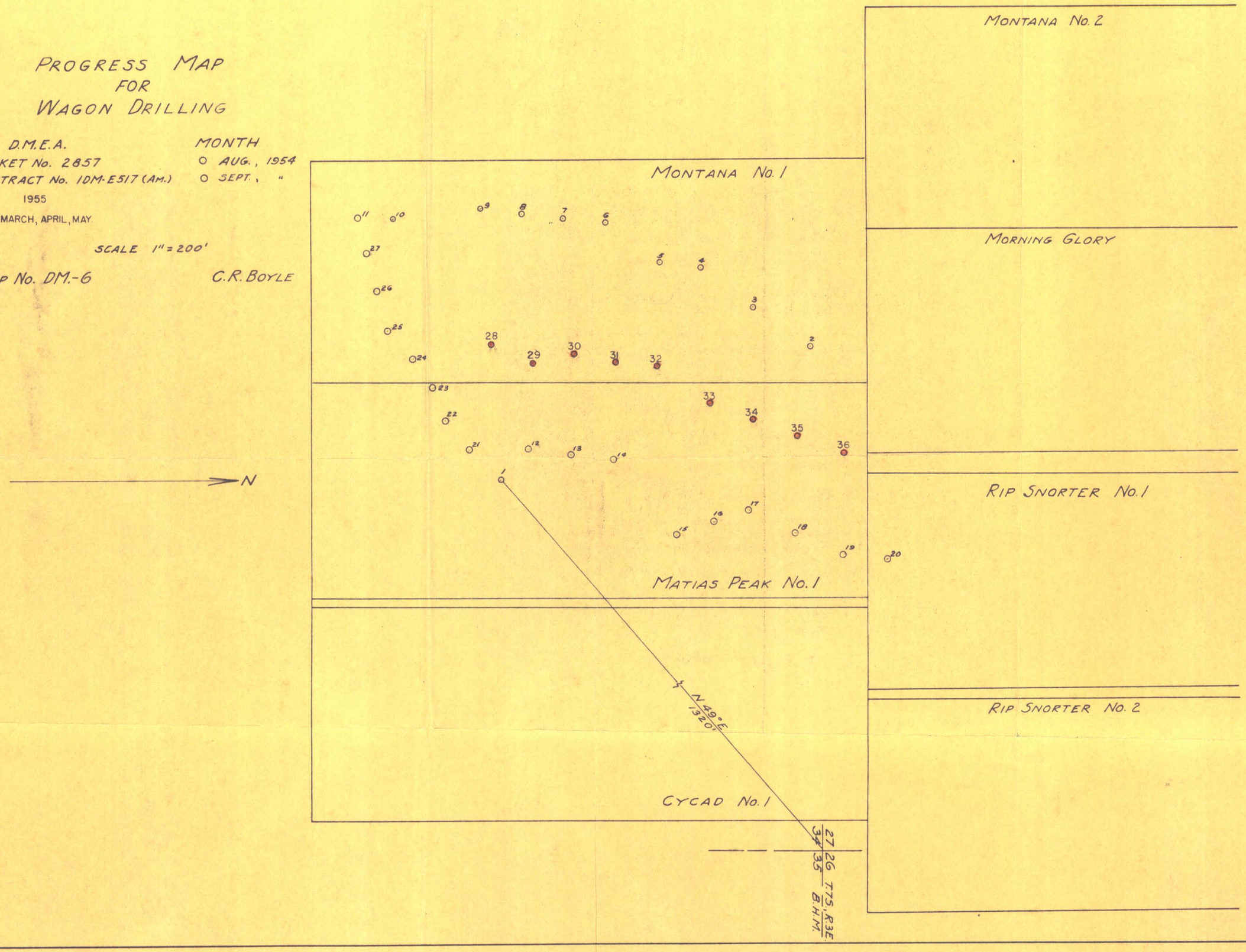


# PROGRESS MAP FOR WAGON DRILLING

D.M.E.A.
DOCKET No. 2857
CONTRACT No. 10M-E517 (AM.)

MONTH
○ AUG., 1954
○ SEPT., "
1955
● MARCH, APRIL, MAY

SCALE 1" = 200'

MAP No. DM.-6

C.R. BOYLE