Standard Form No. 1048
Form approved by Comptroller General U. S.
September 20, 1927

MEMORANDUM

# PUBLIC VOUCHER FOR REFUNDS

4859 Schl 224

Serial No. 1964 3768

D. O. Voucher No. FEB 20 1962

U. S. Department of the Interior - Office of the Secretary
(Department or Establishment, Bureau or Office)

Location: ~~14X1401~~

Appropriation or Fund:

To Address
Balbac Mining and Development Co.
PostOffice Box No. 861
Grand Junction, Colorado

PAID BY

(FOR USE OF PAYING OFFICE)

Deposit received from the above-named depositor on ....., 19.....

for .....

has been applied as herein stated and the balance indicated is returned herewith:

Amount of deposit ..... $.....

Applied as explained in "Remarks" below ..... .....

..... .....

Balance authorized to be refunded ..... $ 1,124.05

Remarks:

Refund of royalty per letter dated December 7, 1961 from Hugh M. Connors, Region III
Contract E-870 and E-1178

OAS

Date ....., 19..... (Memorandum—Do not sign) .....

Title .....

Refund by
- Check No. ....., dated ..... for $ ..... on Treasurer of the U. S. in favor of payee named above.
- Cash, $ ..... on ..... (Signature of payee) .....
  (Memorandum—Do not sign)
- Other method, $ ....., .....
  (Describe)

16—9488

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

224 New Customhouse
Denver 2, Colorado
February 6, 1959

OFFICIAL FILE COPY
O. M. E.
RECEIVED FEB 9 1959

| DATE | INITIALS | CODE |
|---|---|---|
| 2-9 | C | 220 |
| 2/10 | [illegible] | 110 |
| 2/10 | [illegible] | 700 |

Memorandum

To: Chairman, Operating Committee, OME

From: Executive Officer, OME Field Team, Region III

Subject: Docket No. DMEA 4889 (Uranium) Contract Idm-E1178
Balboa Mining and Development Company,
(Laymon property) Crook County, Wyoming -
FINAL PAYMENT

Enclosed are two copies of a memorandum to T. A. Christensen, dated February 3,1959, relative to final payment under the terms of the subject contract.

J. W. Townsend

Enclosures

OFFICIAL FILE COPY
O. M. E.
RECEIVED FEB 9 1959
DATE | INITIALS | CODE

[illegible]
Denver 2, Colorado
February 3, 1959

[illegible]

To: T. A. Christensen

From: Executive Officer, OME Field Team, Region III

Subject: Docket No. [illegible] (Uranium) Contract [illegible]
Ballard Mining and Development Company, (Lagunas property) Grant County, Wyoming - FINAL PAYMENT

Reference is made to our memorandum of January 8, 1959, whereby we forwarded the final Form RF-20A, Operator's Monthly Report and Voucher, for December 1958, and requested that you withhold the entire amount of reimbursement due the Operator, pending resolution of matters pertaining to closing the account.

The Operator's final report has been received, therefore, final payment to the Operator is to be made on the following basis, which is in conformance with the Report of Review of reported project costs by the Contract Administration and Audit Division, OME, dated January 23, 1959.

Basis for Final Payment

| | |
|---|---|
| Total accepted cost | $10,132.07 |
| Government participation at 50 percent | 5,066.03 |
| Total prior payments | 4,673.70 |
| Balance due the Operator | $ 392.33 |

Original signed by
J. W. TOWNSEND

J. W. Townsend

JWT:bmk

cc: Chron., Op. Chron. (2)
Harrison
Marshall, ung/grc
Carson-file, Reg.III
RF-20A file, Reg.III
Conger
Gipson

$392.33

2/5/59 DMEA 59-87

OFFICIAL FILE COPY
O. M. E.
RECEIVED JAN 19 1959

| DATE | INITIALS | CODE |
|---|---|---|
| 1-19 | C | 220 |
| " | JEO | 110 |
| " | [illegible] | 700 |

FINAL DISTRIBUTION
MADE JAN 16 1959

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

Administrative Audit Difference Statement

[redacted]

Date: [redacted]
Payee's Reference: [redacted]
[redacted]
DMEA-4889

[redacted]

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

Amount Claimed $ [redacted]

Difference $ [redacted]

Amount Approved $ [redacted]

The reason for the difference was due to:

[redacted]

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

Very sincerely yours,

[redacted]
Audit Section

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

[illegible] Post Customhouse
Denver 2, Colorado
January 8, 1959

Memorandum

To: T. A. Christensen

From: Executive Officer, GSS Field Team, Region III

Subject: Docket No. [illegible] 4289 (Uranium) Contract IAm-[illegible]178, Walhoe Mining and Development Company, (Lagunas property) Cronk County, Wyoming - Operator's Final Monthly Progress Report for the month of December, 1958 - NO PAYMENT

Enclosed are the original and four copies each of Forms RF-10A and RF-10AA, Operator's Narrative Report, and Engineer's Report for the above period.

With the exception of sampling, all of the work performed during December 1958, was at fixed unit costs in accordance with the provisions of Amendment No. 1 to the contract. We consider that the Operator has complied with the intent of the contract and the work is acceptable to the Government. All of the project work is essentially completed, therefore, the entire amount of Government participation is to be withheld from reimbursement to the Operator, pending resolution of matters prerequisite to closing the account.

As noted by the inspecting engineer the Operator has failed to make adjustment for previous disallowances of units and costs for drilling and incidental allowance.

Remarks:

Date of Report----------December 30, 1958
Date Received in Field Office----------January 5, 1959
Date Received in Region Office----------January 7, 1959

Original signed by
E. N. HARSHMAN
for J. W. Townsend

Enclosures
JEC:bsh
cc: Chief, Op. Comm. (2)
Marshall, GSS/RFC
RF-10A File, Reg. III
Harshman - w/copy of
Operator & Engr's Report
Green

OME
DEPARTMENT OF THE INTERIOR

JAN 7 1959
REGION III
DENVER, COLORADO

Jan. 6, 1959

Memorandum

To: Executive Officer, OME Field Team, Region III

From: Milton E. Marshall

Subject: Docket No. DMEA 4889 (Uranium) Contract Ida-R1178, Bulbee Mining and Development Company (Laguna property) Crook County, Wyoming -- Progress report for December 1958

Enclosed are the original and four copies of Forms MF-104 and MF-104A with the required supporting data for December 1958.

The results of work reported for which reimbursement is claimed was inspected December 4, 1958. No one was at the property at the time of the inspection.

Several errors appear on the operator's Form MF-104 and Form MF-104A. The errors reported on Form MF-104 and corrected figures are as follows:

| | Reported | | Correct | |
|---|---|---|---|---|
| | Previous | To Date | Previous | To Date |
| Drilling | $7,012.75 | $7,495.35 | $6,968.67 | $7,451.87 |
| Fixed Unit Costs | $2,214.55 | $2,366.95 | $2,200.63 | $2,353.03 |

The errors reported on Form MF-104A and corrected figures are as follows:

Stage I

| | Reported | | Correct | |
|---|---|---|---|---|
| | Costs to Date | Units to Date | Costs to Date | Units to Date |
| Drilling | $3,807.63 | 5115.3 | $3,843.55 | 5057.3 |
| Chem. Analyses | $82.12 | 85 | $83.12 | 15 |
| Incid. Allowance | $1,227.67 | 5115.3 | $1,213.75 | 5057.3 |

It may be to the Government's advantage to inform the operator of the foregoing errors so that the figures included in the final accounting report will be correct.

Except for the following, recommendation is made for reimbursement of 50 percent of the reported costs:

<u>Withheld</u> - Entire amount from reimbursement to the operator pending resolution of matters prerequisite to closing the account. For all intent and purposes work under the contract was completed December 2, 1958, with the completion of Bale No. 42, therefore a formal termination agreement is not necessary.

Milton H. Marshall
Milton H. Marshall
Mining Engineer

MHM/mr
cc: 6
Ida-Ki178
chron

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

Budget Bureau No. 42-R1036.5

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

OME, Reg III

JAN 2 - 1959

Month of December, 1958 Docket No. DMEA 4889 Contract No. Idm E-1178

Operator's Name Balboa Mining & Development Company Minerals Uranium

Address P. O. Box 861, Grand Junction, Colorado

Contract Amount, $ 18,700.00 Government Participation: 50 % Amount, $ 9,350.00

| 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 Contracts: | | | | | | |
| Drilling | 482.60 | 7012.75 | 7495.35 | | | |
| ~~Bandoning~~ | 10.00 | 95.00 | 105.00 | | | |
| Crosscutting | | | | | | |
| Drifting | | | | | | |
| Fixed Unit Costs | 152.40 | 2214.55 | 2366.95 | | | |
| (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 | 139.65 | 83.12 | 222.77 | | | |
| Payroll Taxes | | | | | | |
| Liability Insurance | | | | | | |
| (8) Contingencies (specify): | | | | | | |
| TOTALS | $ 784.65 | $ 9405.42 | $10,190.07 | 784.65 | 9,405.42 | 10,190.07 |
| | | | | | 9358.00 | 38.00 |

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

Date 12/30/58 *Payee Balboa Mining & Development Co.

Per James Edson Title Sec.-Treas.

*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)

Previously disallowed

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of: 10,132.07

784.65 9347.42

$ No payment

Signature RKO
(Authorized Certifying Officer)

Date 1-16-59 Vou. No. ✓
(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. ~~DME~~ E 1178 in accordance with the terms of the contract.

Signature Milton H. Marshall Title Mining Engineer Date 1/6/59

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE: Checked for Engineering Eligibility

Signature E. M. Hanz Lemon Title Executive Officer Date JAN 8 1959

# 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.

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

JAN 12 1959 O.M.E.

Month of December 195 8 Docket No. DMEA 4080 Contract No. Idm-R1178
Operator's Name Balboa Mining & Development Co. Minerals Uranium
Address P. O. Box 861, Grand Junction, Colorado

| 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 |
|---|---|---|---|---|---|---|---|---|
| | | | | Stage I | | | | |
| Rotary, Non Core Drill | Ft. | | | 3887.63 | 5115.3 | 0.76 | 4980 | 2.25 |
| [illegible] | | | | 0.00 | 0 | --- | 10.5 | 14.00 |
| Chem. Analyses | | | | 83.12 | 25 | 3.32½ | 105 | 5.00 |
| Incid. allow. | | | | 1227.67 | 5115.3 | .24 | 4980 | 0.24 |
| Winzes | | | | | | | | |
| [illegible] | | | | Stage II | | | | |
| Rotary, non core Drill | Ft. | 482.60 | 635 | 3607.72 | 4747 | 0.76 | 5000 | $ 0.76 |
| Standby | Hr. | 10.00 | 1 | 105.00 | 10.5 | 10.00 | 10.5 | 10.00 |
| Chem. Analyses | Spl. | 139.65 | 42 | 139.65 | 42 | 3.32½ | 105 | 5.00 |
| Incid. allow. | Ft. | 152.40 | 635 | 1139.28 | 4747 | 0.24 | 5000 | 0.24 |
| Test Pits | | | | | | | | |
| Roads and Trails | | | | | | | | |
| Total Distributed Costs | | 784.65 | | 4991.65 | | | | Total Costs Authorized by Contract |
| | | | | 5198.42 | Stage I | | | |
| Operating Equipment Purchased | | | | | | | | |
| Initial Rehabilitation and Repairs | | | | | | | | |
| New Buildings, Improvements, etc. | | | | | | | | |
| Total Costs | | $ 784.65 | | $ 10190.07 | | | | |

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 12/30/58 Operator Balboa Mining & Dev. Co.

Per James Edson Jr. Title Sec. - Treas.

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:

(For Government use only)

W. Marshall

## 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

Balboa Mining and Development Company
Post Office Box 861
Grand Junction, Colorado

December 31, 1958

Progress Report, December, 1958
Docket No. DMEA 4889 (Uranium)
Contract No. Idm-E1178
Laymon Property
Crook County, Wyoming

**DRILLING PROGRESS:**

A total of 635 feet was drilled during the December reporting period to complete the authorized drilling under Phase II. Hole No. 42 was completed and probed on December 2, 1958, but final assays were not obtained until after December 16. A total of 5,115.3 feet was drilled under Phase I and 4,747 feet under Phase II of the DMEA contract making a total of 9,862.3 feet drilled during the entire project at a total cost of $10,190.07.

**GEOLOGY AND MINERALIZATION:**

Hole No. 40 had to be abandoned below 180 feet when a drill bit was lost in the hole. Two mineralized samples were obtained for the interval 176 to 180 feet and assayed (see 40-X log), but no charge was made for the cutting of the hole. Hole No. 40-X was drilled 5 feet to the south as an alternate. It probed 4 feet of 0.28% $U_3O_8$ from 175.5 to 179.5 feet and 1 foot of 0.08% $U_3O_8$ from 185.5 to 186.5 feet.

Hole No. 41 was found to be slightly mineralized at depths of 177, 191 and 205 feet.

Hole No. 42 probed 4 feet of 0.08% $U_3O_8$ for the 174 to 178 foot interval which is at the top of the Lakota zone. These three holes were drilled to determine the extent of mineralization in the area of Holes No. 6 and 26. Additional holes are

now being drilled and cores being taken to more accurately appraise the potential of the property for the Final Evaluation report which is in preparation.

Lithologic logs, probe and assay information are enclosed with copies of the Final Progress map.

Respectfully submitted,

BALBOA MINING AND DEVELOPMENT CO.

By: D. James Edson, Jr.

D. James Edson, Jr.
Geologist

Encl:

# MINCON

P. O. BOX 270

GRAND JUNCTION, COLORADO

## GEOLOGIC AND ASSAY LOG

Drill-hole No. 40 X ( )
Total depth 210
Collar elev. T 4385.6 P
Area Balboa--Thorn Ridge--Laymon

Map coord (T) DMEA 3 4889 Phase II
Map coord (P) 115'W and 5' S of #26
Sec. 27 T. 52N R. 66W
Co., State Crook County, Wyoming

Claim Laymon Lease
Date completed 12/1/58
Date logged 12/2/58
Logged by A. Stoick

Summary of log ore ; OBSS 168-200 thick 32 ; SS color L Gy-Gy ; MS Gy ; Cbn S

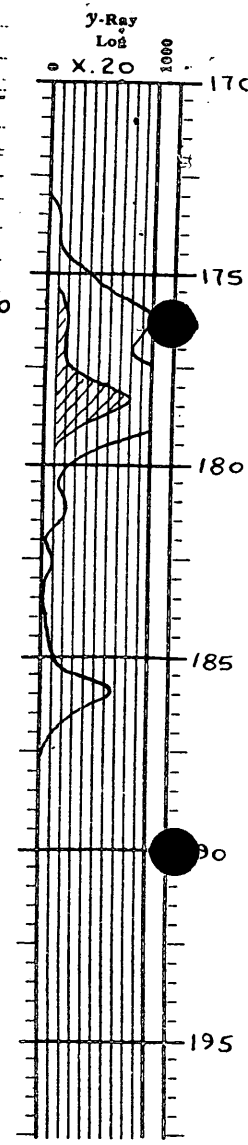
| FOOTAGE Top | Base | Thick | CORE REC | FIELD EST $U_3O_8$ | $V_2O_5$ | DESCRIPTION Rock | Color | Grain | Access mins | Cbn | M S in S S | Other remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 17 | 17 | Plug | | | Sh/SS | Tn-Gy | F | | | | Dakota |
| | 31 | 14 | | | | SS | Tn | VF | | | | |
| | 52 | 21 | | | | SS | LGy | VF | | | | |
| | 60 | 8 | | | | SS | Tn | F | | | | X1.0 |
| 60 | 64 | 4 | | | | St | Gy | | | | | T/Fuson |
| | 82 | 18 | | | | Sh | Gy | Sty | | | | |
| | 96 | 14 | | | | Sh | Gy | | | | | |
| | 100 | 4 | | | | Sh | Gy | Sty | | | | |
| | 126 | 26 | | | | St | LGy-Gy | | | | | Sdy & damp @ base |
| | 130 | 4 | | | | SS | LGy | VF-Sty | | | | |
| | 142 | 12 | | | | St | LGy | Sdy | | | | |
| | 146 | 4 | | | | St | LGy | | | | | |
| | 154 | 8 | | | | Sh | LGy | Sty | | S | | Dk w/cbn @ base |
| | 168 | 14 | | | | St | LGy | | | Tr | | Sdy @ base |
| 168 | 176 | 8 | | | | SS | LGy-Gy | VF | Pyr | S | | T/Lakota |
| | 184 | 8 | | | | SS | Gy-LGy | F | Pyr | S | Tr-Gy | |
| | 196 | 12 | | | | SS | Gy-LGy | F-VC | Pyr | Tr | Tr-Gy | |
| | 200 | 4 | | | | SS | LGy | VF | Pyr | | Tr-Gy | Silty |
| | 210 | 10 | | | | St | LGy-Wh | | | | | |

Hole #40 -----5' N of #40-X was abandoned when drill bit lost in hole

One hour standby to probe to 210.0

| SAMPLE Base | Thick | LAB ASSAY (%) $U_3O_8$* | $V_2O_5$ | $CaCO_3$ | SAMPLE Base | Thick | LAB ASSAY (%) $U_3O_8$* | $V_2O_5$ | $CaCO_3$ | INTERVAL Base | Thick | γ-RAY % $cU_3O_8$ | INTERVAL Base | Thick | γ-RAY % $cU_3O_8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| #40 | | | | | | | | | | | | | 179.5 | 4.0 | 0.28 |
| | | | | | | | | | | | | | 186.5 | 1.0 | 0.08 |
| 178.0 | 2.0 | 0.07 | | | | | | | | | | | | | |
| 180.0 | 2.0 | 0.45 | 1.01 | | | | | | | | | | | | |
| #40-X | | | | | | | | | | | | | | | |
| 176.0 | 2.0 | 0.05 | | | | | | | | | | | | | |
| 178.0 | 2.0 | 0.16 | 0.32 | | | | | | | | | | | | |
| 186.0 | 2.0 | 0.03 | | | | | | | | | | | | | |

* Assays marked "c" are from lab gamma-ray readings




Rev.
Ed.

Hole No. 40X

COLORADO PRINTING CO.

# MINCON

**GEOLOGIC AND ASSAY LOG**

P. O. BOX 270

GRAND JUNCTION, COLORADO

Drill-hole No. 41 ( )
Total depth 215
Collar elev. T 4391.6 P
Area Balboa--Thorn Ridge--Laymon

Map coord (T) DMEA # 4889 Phase II
Map coord (P) 115' E of #26
Sec. 27 T. 52 N R. 66 W
Co., State Crook County, Wyoming

Claim Laymon Lease
Date completed 12/1/58
Date logged 12/2/58
Logged by Stoick

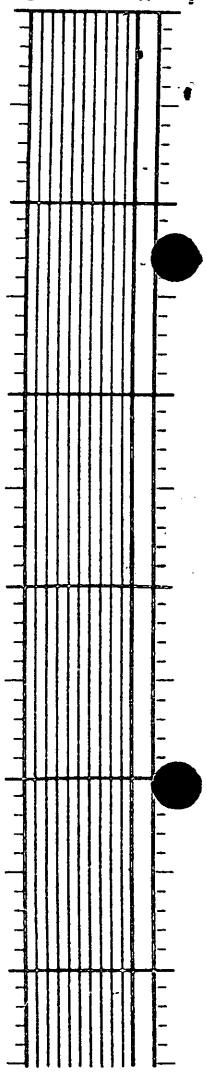
Summary of log semifavorable ; OBSS 172-215 thick 43' ; SS color Tn-Bn ; MS Gy ; Cbn Tr

| FOOTAGE Top | FOOTAGE Base | FOOTAGE Thick | CORE REC | FIELD EST $U_3O_8$ | FIELD EST $V_2O_5$ | DESCRIPTION Rock | Color | Grain | Access mins | Cbn | M S in S S | Other remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 12.0 | 12 | Plug | | | SS/Sh | Tn-Gy | VF | | | | Dakota |
| | 28.0 | 16 | | | | SS | Tn | F | | | | |
| | 50.0 | 22 | | | | SS | LGy | F | | | | |
| | 60.0 | 10 | | | | SS | Tn | F | | | | |
| 60.0 | 64.0 | 4 | | | | St | Gy | | | | | T/Fuson |
| | 90.0 | 26 | | | | Sh | Gy | | | | | |
| | 102.0 | 12 | | | | Sh | Gy | Sty | | | | |
| | 114.0 | 12 | | | | St | LGy | Sdy | | | | |
| | 130.0 | 16 | | | | SS | LGy | VF | | | | Silty |
| | 140.0 | 10 | | | | St | LGy | Sdy | | | | |
| | 152.0 | 12 | | | | Sh | Gy-LGy | Sty | | Tr | | Dark w/cbn @ base. |
| | 160.0 | 8 | | | | St | LGy | Sdy | | | | |
| | 172.0 | 12 | | | | SS | LGy | VF | | | | Silty |
| 172.0 | 190.0 | 18 | | | | SS | Tn-Bn | VF | Pyr | Tr | Gy 176-178 | T/Lakota |
| | 194.0 | 4 | | | | SS | Tn | VF-M | | Tr | Tr Gy | |
| | 215.0 | 21 | | | | SS | Tn-Bn | VF | | | | |
| | | | | | | | | | | | | Probed to 212.0 |

| SAMPLE Base | SAMPLE Thick | LAB ASSAY (%) $U_3O_8$* | LAB ASSAY (%) $V_2O_5$ | LAB ASSAY (%) $CaCO_3$ | SAMPLE Base | SAMPLE Thick | LAB ASSAY (%) $U_3O_8$* | LAB ASSAY (%) $V_2O_5$ | LAB ASSAY (%) $CaCO_3$ | INTERVAL Base | INTERVAL Thick | γ-RAY % $eU_3O_8$ | INTERVAL Base | INTERVAL Thick | γ-RAY % $eU_3O_8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | 177.5 | 0.5 | 0.02 |
| | | | | | | | | | | | | | 191.0 | 1.0 | Tr |
| | | | | | | | | | | | | | 205.0 | 1.0 | Tr |

* Assays marked "e" are from lab gamma-ray readings

γ-Ray Log




Rev.
Ed.

Hole No. 41

COLORADO PRINTING CO.

# MINCON

P. O. BOX 270 — GRAND JUNCTION, COLORADO

## GEOLOGIC AND ASSAY LOG

Drill-hole No. 42 ( )
Total depth 210
Collar elev. T 4384.1 P
Area Thorn Ridge--Laymon Lease

Map coord (T) DMEA #4889 Phase II
Map coord (P) 115' W of #39
Sec. 27 T. 52 N R. 66 W
Co., State Crook County, Wyoming

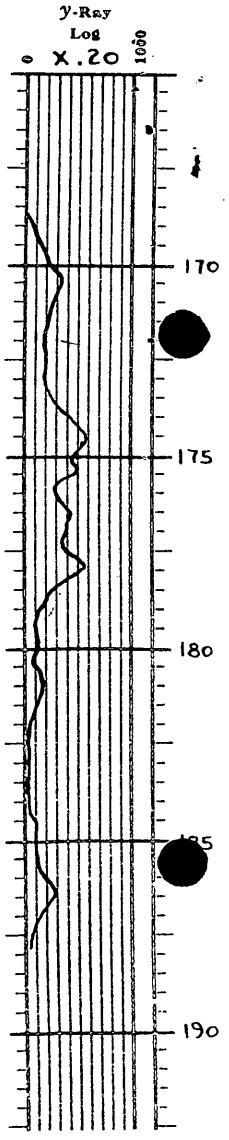
Claim Laymon Lease
Date completed 12/2/58
Date logged 12/2/58
Logged by A. Stdck

Summary of log Mineralized ; OBSS 172-192 thick 20' ; SS color LGy ; MS Gy ; Cbn Tr

| FOOTAGE Top | FOOTAGE Base | FOOTAGE Thick | CORE REC | FIELD EST $U_3O_8$ | FIELD EST $V_2O_5$ | DESCRIPTION Rock | Color | Grain | Access mins | Cbn | M S in S S | Other remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 14.0 | 14 | Plug | | | SS-Sh | Tn-Gy | F | | | | Dakota |
| | 30.0 | 16 | | | | SS | LTn | VF | | | Gy-DGy | DGy Sh @ base. |
| | 50.0 | 20 | | | | SS | LGy | VF | | Tr | | |
| | 60.0 | 10 | | | | SS | LGy-LTn | VF | | | | Cbn ? @ base |
| 60.0 | 66.0 | 6 | | | | St | Gy | | | | | |
| | 98.0 | 32 | | | | Sh | Gy | | | | | |
| | 102.0 | 4 | | | | Sh | Gy | Sty | | | | |
| | 104.0 | 2 | | | | SS | Gy | VF-Sty | | | | |
| | 114.0 | 10 | | | | St | LGy-Gy | Gy | | | | Sdy @ base. |
| | 132.0 | 18 | | | | SS | LGy-Gy | VF | | | | Damp and silty |
| | 138.0 | 6 | | | | St | LGy-Gy | Sdy | | | | |
| | 140.0 | 2 | | | | St | LGy | | | | | |
| | 156.0 | 16 | | | | Sh | LGy-Gy | Sty | | | | Tr Cbn @ base |
| | 160.0 | 4 | | | | St | LGy | | | | | |
| | 172.0 | 12 | | | | SS | LGy | VF | | | | Silty |
| 172.0 | 184.0 | 12 | | | | SS | Gy-LGy | VF | Tr Pyr | Tr | | |
| | 192.0 | 8 | | | | SS | LGy | F-C | Tr Pyr | | Gy | |
| | 196.0 | 4 | | | | MS | Gy | | | | | Note: This hole was |
| | 200.0 | 4 | | | | St | Gy | | | | | conditional on results |
| | 202.0 | 2 | | | | MS | LGy | | | | | of #40-X. |
| | 210.0 | 8 | | | | St | LGy | | | | | |
| | | | | | | | | | | | | Probed to 210.0' |
| | | | | | | | | | | | | one hour standby |

| SAMPLE Base | SAMPLE Thick | LAB ASSAY (%) $U_3O_8$* | $V_2O_5$ | $CaCO_3$ | SAMPLE Base | SAMPLE Thick | LAB ASSAY (%) $U_3O_8$* | $V_2O_5$ | $CaCO_3$ | INTERVAL Base | INTERVAL Thick | γ-RAY % e$U_3O_8$ | INTERVAL Base | INTERVAL Thick | γ-RAY % e$U_3O_8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 176.0 | 2.0 | 0.02 | | | | | | | | | | | 178.0 | 4.0 | 0.08 |
| 178.0 | 2.0 | 0.02 | | | | | | | | | | | | | |

* Assays marked "e" are from lab gamma-ray readings




Rev.
Ed.

Hole No. 42

COLORADO PRINTING CO.

OFFICIAL FILE
O. M. E.
RECEIVED JAN 19 1959

| DATE | | | DE |
|---|---|---|---|
| 1-19 | C | | 220 |
| " | | | 110 |
| " | | | 100 |

FINAL DISTRIBUTION

MADE JAN 16 1959

[redacted] 226 New Customhouse
Denver 2, Colorado
January 8, 1959

[redacted]

To: [redacted]

From: Executive Officer, OGC Field Team, Region III

Subject: Docket No. [redacted] (Premium) Contract Fee-[redacted]
Salute Mining and Development Company, (Layton property) Crook County, Wyoming - Operator's Monthly Progress Report for the month of November, 1958

Enclosed are the original and four copies each of Forms MF-10A and MF-10A, Operator's Narrative Report, and Engineer's Report for the above period.

All of the work performed during November 1958, was at fixed unit costs as provided under Amendment No. 1 to the contract, therefore, documentation of the reported costs is not required. We consider that the Operator has complied with the intent of the contract and the work for which payment is recommended is acceptable to the Government. We recommend that payment be made to the Operator for 50 percent of the amount reported on Form MF-10A, subject to your verification of applicable rates and arithmetical accuracy within the report, in addition to the following reimbursement to be made:

Reinstate the amount of $250.00 which was withheld from reimbursement to the Operator in processing the August, 1958 voucher.

Reconciliation with Amount Reported by the Operator on Form MF-10A for the month of November, 1958

Amount reported on Form MF-10A for November, 1958 ---------- $407.00

Government participation at 50 percent ---------- $203.50
Amount to be reinstated ---------- 250.00

Balance due the Operator ---------- $453.50

REMARKS:

Date of Report----------December 16, 1958
Date Received in Field Office----------January 3, 1959
Date Received in Region Office----------January 7, 1959

Countersigned by
E. N. HARSHMAN
for J. W. Townsend

Enclosures

JWT:hmh

cc: Chem. Op. Sum. (2)
Marshall, OGM/NPC
NP-104 file, Reg. III
Harshman ) w/copy of
Cooper ) Engr's Report
Chron

OME
DEPARTMENT OF THE INTERIOR

JAN 7 1959
REGION III
DENVER, COLORADO

Jan. 6, 1959

Memorandum

To: Executive Officer, OME Field Team, Region III

From: Milton H. Marshall

Subject: Docket No. DMEA 4889 (Uranium) Contract IAm-M1178,
Balben Mining and Development Company (Layman property)
Crook County, Wyoming -- Progress report for November 1958

Enclosed are the original and four copies of Forms MF-104 and 104A. The required supporting data is attached with the exception of a map showing the location of holes drilled in November. However, the December report being processed at the same time as this report contains a map which shows the location of holes drilled in November. Under the circumstances, it is recommended that the Government accept the map in the December report as satisfactory in fulfilling the requirements of the November report.

The results of work reported for which reimbursement is claimed was inspected December 4, 1958. No one was at the property at the time of the inspection.

Recommendation is made for reimbursement of 50 percent of reported costs and reinstatement of the amount of $250.00 withheld from reimbursement to the operator on MF-104 voucher for August 1958.

Milton H Marshall
Milton H. Marshall
Mining Engineer

MHM
mr
cc: 6
IAm-M1178
chron

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

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

JAN 29 1959

OME, Reg III
JAN 2 - 1959

# OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of November, 1958 Docket No. DMEA 4888 Contract No. Idm E-1178
Operator's Name Balboa Mining and Development Company Minerals Uranium
Address P. O. Box 861, Grand Junction, Colorado
Contract Amount, $18,700.00 Government Participation: 50 % Amount, $ 9,350.00

| 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 Contractors: | | | | | | |
| Drilling | 3125.12 | 3887.63 | 7012.75 | | | |
| ~~Bulldozing~~ standby | 95.00 | 0.00 | 95.00 | | | |
| Crosscutting | | | | | | |
| Drifting | | | | | | |
| Fixed Unit costs | 986.88 | 1227.67 | 2214.55 | | | |
| (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 | none | 83.12 | 83.12 | | | |
| Payroll Taxes | | | | | | |
| Liability Insurance | | | | | | |
| (8) Contingencies (specify): | | | | | | |
| TOTALS | 4207.00 | 5198.42 | 9405.42 | 4207.00 | 5,198.42 | 9,405.42 |
| | | | | D 58.00 | | D 58.00 |

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

Date 12/16/58 *Payee Balboa Mining & Development Co.

Per James Edson Jr. Title Sec. Treas.

*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.

D Previously disallowed

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:
4207.00 5148.42 9,347.42
$ 2353.50

Signature RCC
(Authorized Certifying Officer)

Date 1-16-59 Vou. No. DMA-59-80
(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. DME 1178 in accordance with the terms of the contract.

Signature Milton H. Marshall Title Mining Engineer Date 1/6/59

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE: Checked for Engineering Allowability

Signature [illegible] Title Executive Officer Date JAN 8 1959

# 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.

Form MF-1012
(Apr. 1952)

Budget Bureau No. 42-R1151.2

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

JAN 19 1959
O.M.E.

# OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of November 1958 Docket No. DMEA 4889 Contract No. 14m E-1178
Operator's Name Balboa Mining & Development Company Minerals Uranium
Address P. O. Box 861, Grand Junction, Colorado

| 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 |
|---|---|---|---|---|---|---|---|---|
| STAGE I | | | | | | | | |
| Rotary, non core drill | ft. | | | 3887.63 | 5115.3 | 0.76 | 498.0 | 2.25 |
| Auger standby | hr. | | | [illegible] | [illegible] | --- | 10.5 | 14.00 |
| Chem analyses | spl. | | | 83.12 | 25 | 3.32½ | 105 | 5.00 |
| Incid. allow. | | | | 1227.67 | 5115.3 | 0.24 | 4980 | 0.24 |
| Winzes | | | | | | | | |
| Drilling: Core | | | | | | | | |
| STAGE II | | | | | | | | |
| Rotary non core Drill | ft. | 3125.12 | 4112 | 3125.12 | 4112 | [illegible] | 5000 | $ 0.76 |
| Auger standby | hr. | 95.00 | 9.5 | 95.00 | 9.5 | [illegible] | 10.5 | 10.00 |
| Chem analyses | spl. | none | none | [illegible] | [illegible] | [illegible] | 105 | 5.00 |
| Incid allow | | 986.88 | 4112 | 986.88 | 4112 | 0.24 | 5000 | 0.24 |
| Test Pits | | | | | | | | |
| Roads and Trails | | | | | | | | |
| Total Distributed Costs | | 4207.00 | | 4207.00 | | | | Total Costs Authorized by Contract |
| | | | | 5198.42 | [illegible] | | | |
| Operating Equipment Purchased | | | | | | | | |
| Initial Rehabilitation and Repairs | | | | | | | | |
| New Buildings, Improvements, etc. | | | | | | | | |
| Total Costs | | 4207.00 | | 9405.42 | | | | |

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 12/16/58 Operator Balboa Mining & Development Co.

Per James Edson Jr. Title Sec. Treas.

Remarks:

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 872894

Balboa Mining and Development Company
Post Office Box 861
Grand Junction, Colorado

December 16, 1958

Progress Report, November, 1958
Docket No. DMEA 4889 (Uranium)
Contract No. Idm-21178
Laymon Property
Crook County, Wyoming

DRILLING PROGRESS:

A total of 4112 feet was drilled during the November reporting period with the drilling of Phase II commencing on November 11, 1958. Holes No. 22 through No. 29 were completed as authorized by contract, and Holes No. 30 through No. 39 were completed as authorized by verbal approval. Hole No. 23 could not be drilled below 202 feet since none of the material added to the drill mud maintained circulation, so it was moved 20 feet N. 45° E. of the original location and completed as No. 23-X.

GEOLOGY AND MINERALIZATION:

Hole No. 22 probed 9.5 feet of 0.30% $U_3O_8$ from 196.5 to 206.0 and 1 foot of 0.18 $U_3O_8$ from 215 to 216 feet. Hole No. 23 was slightly mineralized at 217 feet. Hole No. 24 probed 3.5 feet of 0.21% $U_3O_8$ from 199 to 202.5 feet and 1 foot of 0.09 $U_3O_8$ from 213 to 214 feet. Hole No. 23-X was slightly mineralized at 214.5 feet. Hole No. 26 was mineralized from 194 to 205 feet depth with the principal zone of interest between 197.5 to 200.00 feet (2½ feet) probing 0.23% $U_3O_8$. Holes No. 27, 28, and 29 were drilled to follow mineralization indicated by Hole No. 12-X drilled during Phase I. Hole No. 27 probed 1 feet of 0.10% $U_3O_8$. Hole No. 28 was slightly mineralized at 173 feet and Hole No. 29 was barren.

Holes 30, 31 and 32 were drilled as westerly stepouts from No. 22 and all were barren. Hole No. 33, a northeast stepout from No. 24, probed in excess of 1% $U_3O_8$

at a depth of 186.5 feet with the 4 feet interval 184.5 to 188.5 feet averaging 0.58 $U_3O_8$. Hole No. 34 to the east of No. 24 had only a trace of mineralization at 210 feet. Hole No. 35 to the north of No. 24 probed 0.39% $U_3O_8$ over an 8 foot interval from 189 to 197 feet, and also probed 0.26% $U_3O_8$ from 206.5 feet to 210.5 feet (4.0 feet). Hole No. 36 was slightly mineralized at 194 feet. Hole No. 37 had some mineralization at 198 feet. Hole No. 38 probed some mineralization at 173 feet and 183 feet. Hole No. 39 was also slightly mineralized at a depth of 187 feet.

A commercial ore deposit north and east of the old A.E.C. hole No. 746 is now indicated and will be checked by further closely spaced core holes in the future.

Lithologic logs, probe and assay information and copies of the final map are enclosed.

Respectfully submitted,

BALBOA MINING & DEVELOPMENT CO.

By: James Edson, Jr.

D. James Edson, Jr.,
Geologist

Encl:

# MINCON

P. O. BOX 270

GRAND JUNCTION, COLORADO

## GEOLOGIC AND ASSAY LOG

Drill-hole No. 22 ( )
Total depth 285.0'
Collar elev. T 4386.7 P
Area Balboa--Thorn Ridge--Laymon

Map coord (T) DMEA #4889 Phase II
Map coord (P) 115' W of #3
Sec. 27 T. 52N R. 66W
Co., State Crook County, Wyoming

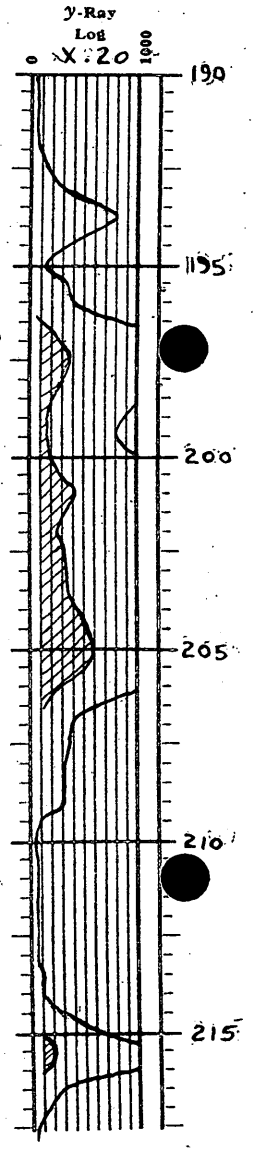
Claim Laymon Lease
Date completed 11/11/58 - 11/12/58
Date logged 11/12/58
Logged by A Stoick

Summary of log ore ; OBSS 170-218 thick 48.0 ; SS color Gy ; MS N ; Cbn S-A

| FOOTAGE Top | Base | Thick | CORE REC | FIELD EST $U_3O_8$ | $V_2O_5$ | DESCRIPTION Rock | Color | Grain | Access mins | Cbn | M S in S S | Other remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 10.0 | 10.0 | Plug | | | SS | Bn-Tn | | Fe | | Gy | Dakota |
| | 12.0 | 2.0 | | | | SH | DBn-Gy | | | | | |
| | 26.0 | 14.0 | | | | SS | Tn | VF | Tr Gyp | Tr | L Gy | |
| | 60.0 | 34.0 | | | | SS | LGy-Tn | VF | | Tr | Gy-DGy | |
| 60.0 | 72.0 | 12.0 | | | | ST | Gy | | | | Tr Gy | T/Fuson x1.0 |
| | 100.0 | 28.0 | | | | SH | Gy-DGy | Sty | | | | |
| | 124.0 | 24.0 | | | | St/SS | Gy | VF-Sty | Pyr | | Gy | Damp 110-134 |
| | 134.0 | 10.0 | | | | SS | Gy | VF | | | | |
| | 142.0 | 8.0 | | | | ST | Gy | | | | LGy | |
| | 154.0 | 12.0 | | | | SH | LGy | Sty | Pyr | | LGy | |
| | 170.0 | 16.0 | | | | SS | LGy-Gy | VF-Sty | | | | |
| 170.0 | 190.0 | 20.0 | | | | SS | Gy | VF-F | S-A Pyr | S-A | | T/Lakota |
| | 204.0 | 14.0 | | | | SS | Gy-DGy | F-C | A-Pyr | A | | Kaolin |
| | 218.0 | 14.0 | | | | SS | Gy | F-M | Tr Pyr | Tr | | M-C Gr 204-206 |
| 218.0 | 240.0 | 22.0 | | | | SS | Gy | F-Sty | Tr Fr | | | 210-285 water drilled |
| | 285.0 | 35.0 | | | | SS | | | | | NOTE: | Plugged below authorized depth. No MS below & contin. high count. |
| | | | Only 240' claimed | | | | | | | | | |
| | | | | | | | | | | | | Probed to 283.0 1 hour standby for probing |

| SAMPLE Base | Thick | LAB ASSAY (%) $U_3O_8$* | $V_2O_5$ | $CaCO_3$ | SAMPLE Base | Thick | LAB ASSAY (%) $U_3O_8$* | $V_2O_5$ | $CaCO_3$ | INTERVAL Base | Thick | γ-RAY % e$U_3O_8$ | INTERVAL Base | Thick | γ-RAY % e$U_3O_8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 194.0 | 2.0 | 0.03 | | | | | | | | | | | | | |
| 196.0 | 2.0 | 0.012 | | | | | | | | | | | 206.0 | 9.5 | 0.30 |
| 198.0 | 2.0 | 0.14 | | | | | | | | | | | 216.0 | 1.0 | 0.18 |
| 200.0 | 2.0 | 0.08 | | | | | | | | | | | | | |
| 202.0 | 2.0 | 0.11 | | | | | | | | | | | | | |
| 204.0 | 2.0 | 0.21 | | | | | | | | | | | | | |
| 206.0 | 2.0 | 0.10 | | | | | | | | | | | | | |
| 214.0 | 2.0 | 0.03 | | | | | | | | | | | | | |
| 216.0 | 2.0 | 0.02 | | | | | | | | | | | | | |

* Assays marked "e" are from lab gamma-ray readings

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Hole No. 22

COLORADO PRINTING CO.

# MINCON

P. O. BOX 270

GRAND JUNCTION, COLORADO

## GEOLOGIC AND ASSAY LOG

Drill-hole No. 23 ( )
Total depth 240.0
Collar elev. T 4388.5 P
Area Balboa--Thorn Ridge--Laymon

Map coord (T) DMEA # 4889 Phase II
Map coord (P) 140' N 45° E of #3
Sec. 27 T. 52 N R. 66 W
Co., State Crook County, Wyoming

Claim Laymon Lease
Date completed 11/12/58
Date logged 11/12/58
Logged by A. Stoick

Summary of log Favorable ; OBSS 176 - 220 thick 34' ; SS color L Gy-DGy ; MS D Gy ; Cbn S-A

| FOOTAGE Top | Base | Thick | CORE REC | FIELD EST $U_3O_8$ | $V_2O_5$ | DESCRIPTION Rock | Color | Grain | Access mins | Cbn | M S in S S | Other remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 8.0 | 8.0 | Plug | | | SH/SS | Bn | F | Fe | N | | Soil & Weath. Dakota |
| | 30.0 | 22.0 | | | | SS | Tn | F | | A | Gy | Cbn @ 12-14' |
| | 52.0 | 22.0 | | | | SS | LGy | F | | N | | |
| | 58.0 | 6.0 | | | | SS | Tn | F | | S | | |
| 58.0 | 70.0 | 12.0 | | | | St/Sh | Gy | | | | | T/Fuson |
| | 90.0 | 20.0 | | | | Sh | Gy | | | | | |
| | 102.0 | 12.0 | | | | SH | DGy | Sty | | | | |
| | 106.0 | 4.0 | | | | ST | Gy-LGy | | | | | |
| | 108.0 | 2.0 | | | | SS | LGy | VF | | N | | |
| | 126.0 | 18.0 | | | | ST | LGy-Gy | | | | | Damp below 110 |
| | 134.0 | 8.0 | | | | SS | Gy | VF-Sty | | N | | |
| | 146.0 | 12.0 | | | | ST | Gy | | Tr Pyr | | | |
| | 154.0 | 8.0 | | | | Sh | LGy | | | | | |
| | 160.0 | 6.0 | | | | Sh | Gy-DGy | Sty | A Pyr | | | |
| | 176.0 | 16.0 | | | | St | LGy | Sdy | | Tr | | |
| 176.0 | 190.0 | 14.0 | | | | SS | Gy-LGy | VF | Pyr | S-A | | T/Lakota |
| | 196.0 | 6.0 | | | | SS | Gy | F | | S | | |
| | 220.0 | 24.0 | | | | SS | Gy-DGy | F | A Pyr | S-A | DGy | Dk Red stains @ base. |
| | 226.0 | 6.0 | | | | SS | LGy-LTn | VF | | Tr | | |
| | 240.0 | 14.0 | | | | SS | LGy | F-C | Pyr/Kaolin | N | LGy | |
| | | | | | | | | | | | | Probed to 239.5' |

| SAMPLE Base | Thick | LAB ASSAY (%) $U_3O_8$* | $V_2O_5$ | $CaCO_3$ | SAMPLE Base | Thick | LAB ASSAY (%) $U_3O_8$* | $V_2O_5$ | $CaCO_3$ | INTERVAL Base | Thick | γ-RAY % $cU_3O_8$ | INTERVAL Base | Thick | γ-RAY % $cU_3O_8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | 217.0 | 1.0 | 0.02 |

* Assays marked "e" are from lab gamma-ray readings

γ-Ray Log 0 1000

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Hole No. 23

COLORADO PRINTING CO.

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P. O. BOX 270 — GRAND JUNCTION, COLORADO

## GEOLOGIC AND ASSAY LOG

Drill-hole No. 24 (.....)
Total depth 230.0'
Collar elev. T 4397.0 P
Area Balboa--Thorn Ridge--Laymon

Map coord (T) DMEA # 4889 PHASE II
Map coord (P) 115' E of #5
Sec. 27 T. 52N R. 66 W
Co., State Crook County, Wyoming

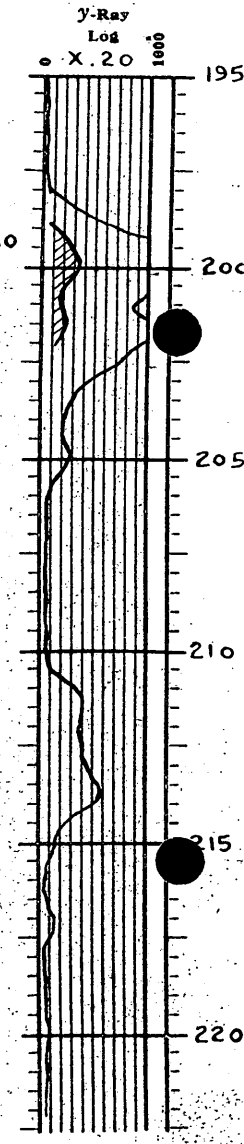
Claim Laymon Lease
Date completed 11/12/58
Date logged 11/12/58
Logged by A Stoick

Summary of log Ore ; OBSS 176' - 212' thick 36' ; SS color LGy-Tn ; MS L Gy ; Cbn S

| FOOTAGE Top | Base | Thick | CORE REC | FIELD EST $U_3O_8$ | $V_2O_5$ | DESCRIPTION Rock | Color | Grain | Access mins | Cbn | M S in S S | Other remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 14.0 | 14.0 | Plug | | | SH | Gy- Bn | Sdy | | Tr | | |
| | 32.0 | 18.0 | | | | SS | L-DTn | F | | | D Gy | DGy @ base. x1.0 |
| | 54.0 | 22.0 | | | | SS | LGy-Tn | F | | Tr | | |
| | 58.0 | 4.0 | | | | SS | D Tn | F | | | | T/Fuson--hard |
| 58.0 | 60.0 | 2.0 | | | | ST | Gy | | | | | |
| | 64.0 | 4.0 | | | | SH | Gy | Sty | | | | |
| | 84.0 | 20.0 | | | | SH | Gy | | | | | |
| | 90.0 | 6.0 | | | | SH | D Gy | | | | | |
| | 104.0 | 14.0 | | | | SH | DGy-Gy | Sty | | | | |
| | 108.0 | 4.0 | | | | SS | LGy-Gy | VF | | Tr | | |
| | 122.0 | 14.0 | | | | ST | Gy | Sdy@ base | | | | |
| | 126.0 | 4.0 | | | | ST | LGy | | | | | |
| | 144.0 | 18.0 | | | | ST | Gy | Sdy | | | | |
| | 156.0 | 12.0 | | | | Sh | LGy | Sty | | S | | D Gy w/Cbn @ base. |
| | 176.0 | 20.0 | | | | St | LGy | Sdy@ base | | | | LGy VF SS @ base |
| 176.0 | 184.0 | 12.0 | | | | SS | Gy-LBn | F | Pyr,Fe | S | | T/Lakota |
| | 198.0 | 14.0 | | | | SS | LTn | F | | Tr | Tr L Gy | |
| | 204.0 | 6.0 | | | | SS | Gy | F | A Pyr | S | L Gy | |
| | 212.0 | 8.0 | | | | SS | LGy-Tn | | S Pyr | S | Tr L Gy | Rd stns @ base. |
| | 214.0 | 2.0 | | | | MS | Gy | | A Pyr | Tr | | |
| | 224.0 | 10.0 | | | | SS | Ltn -Gy | F | Pyr | Tr | | Blk & Rd specks |
| | 230.0 | 6.0 | | | | SS | LGy-Tn | F-C | | | Gy | |
| | | | | | | | | | | | | One hour standby--probe |
| | | | | | | | | | | | | Probed to 230.0' |

| SAMPLE Base | Thick | LAB ASSAY (%) $U_3O_8$* | $V_2O_5$ | $CaCO_3$ | SAMPLE Base | Thick | LAB ASSAY (%) $U_3O_8$* | $V_2O_5$ | $CaCO_3$ | INTERVAL Base | Thick | γ-RAY % $eU_3O_8$ | INTERVAL Base | Thick | γ-RAY % $eU_3O_8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 200.0 | 2.0 | 0.10 | | | | | | | | | | | 202.5 | 3.5 | 0.21 |
| 202.0 | 2.0 | 0.07 | | | | | | | | | | | 214.0 | 1.0 | 0.09 |
| 204.0 | 2.0 | 0.02 | | | | | | | | | | | | | |
| 212.0 | 2.0 | 0.02 | | | | | | | | | | | | | |
| 214.0 | 2.0 | 0.017 | | | | | | | | | | | | | |

* Assays marked "e" are from lab gamma-ray readings

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Hole No. 24

COLORADO PRINTING CO.

# MINCON

**GEOLOGIC AND ASSAY LOG** — P. O. BOX 270 — GRAND JUNCTION, COLORADO

Drill-hole No. 25 (25X) — Map coord (T) DMEA #4889 Phase II — Claim Laymon Lease

Total depth 240 — Map coord (P) 20' N65°E of 25 — Date completed 11/13/58 - 11/22/58

Collar elev. T 4397.1 P — Sec. 27 T. 52N R. 66W — Date logged 11/22/58

Area Balboa--Thorn Ridge--Laymon — Co., State Crook County, Wyoming — Logged by A. Stoick

Summary of log Favorable ; OBSS 174-204 thick 30' ; SS color L Gy- L Tn ; MS L Gy ; Cbn S

| FOOTAGE Top | FOOTAGE Base | FOOTAGE Thick | CORE REC | FIELD EST $U_3O_8$ | FIELD EST $V_2O_5$ | DESCRIPTION Rock | Color | Grain | Access mins | Cbn | M S in S S | Other remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 12.0 | 12 | Plug | | | Sh | Bn | Sdy | | | | And soil (Dakota) |
| | 28.0 | 16 | | | | SS | LTn-Tn | F | | Tr | | |
| | 44.0 | 16 | | | | SS | LGy | F | | | | |
| | 52.0 | 8 | | | | SS | LGy | VF | | Tr | | |
| | 58.0 | 6 | | | | SS | LTn-Bn | F | | Tr | | |
| 58.0 | 66.0 | 8 | | | | St | Gy | | | | | T/Fuson |
| | 86.0 | 20 | | | | Sh | Gy | | | | | |
| | 94.0 | 8 | | | | Sh | DGy | Sty | | | | |
| | 102.0 | 8 | | | | St | Gy-DGy | | | | | |
| | 106.0 | 4 | | | | St/SS | LGy | VF | | | | |
| | 114.0 | 8 | | | | St | Gy | Sdy | | | | |
| | 118.0 | 4 | | | | SS | Gy | VF | | | | Silty |
| | 132.0 | 14 | | | | St | Gy-LGy | Sdy | | | | |
| | 146.0 | 14 | | | | St | Gy | | | | | |
| | 152.0 | 6 | | | | Sh | LGy | | | | | |
| | 166.0 | 14 | | | | St | Gy-LGy | | | | | |
| | 174.0 | 8 | | | | SS | LGy | VF | Tr Pyr | | | Silty |
| 174.0 | 178.0 | 4 | | | | SS | LGy-Tn | VF | | | | T/Lakota |
| | 184.0 | 6 | | | | SS | LGy | VF | | Tr | | |
| | 188.0 | 4 | | | | SS | LBn | F-M | S Pyr | S | | |
| | 204.0 | 16 | | | | SS | Ltn-LGy | VF | | Tr | | Lost hole 25 @ 202' moved |
| | 208.0 | 4 | | | | SS/MS | LTn-LGy | VF | | | LGy | to 25-X (no circ.) |
| | 220.0 | 12 | | | | SS | LGy-LTn | VF | Hema? | | | |
| | 230.0 | 10 | | | | SS | LGy-Tn | VF | Blk;Kao. | | | One hour standby |
| | 240.0 | 10 | | | | SS | LGy | M-C | Kao | | | for Probe to 231.9' |

| SAMPLE Base | SAMPLE Thick | LAB ASSAY (%) $U_3O_8$* | LAB ASSAY (%) $V_2O_5$ | LAB ASSAY (%) $CaCO_3$ | SAMPLE Base | SAMPLE Thick | LAB ASSAY (%) $U_3O_8$* | LAB ASSAY (%) $V_2O_5$ | LAB ASSAY (%) $CaCO_3$ | INTERVAL Base | INTERVAL Thick | γ-RAY % $eU_3O_8$ | INTERVAL Base | INTERVAL Thick | γ-RAY % $eU_3O_8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | 214.5 | 0.5 | 0.04 |

γ-Ray Log 0 100

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Hole No. 25-X

* Assays marked "e" are from lab gamma-ray readings

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P. O. BOX 270

GRAND JUNCTION, COLORADO

## GEOLOGIC AND ASSAY LOG

Drill-hole No. 26 ( )
Total depth 240.0
Collar elev. T 4388.6 P
Area Balboa--Thorn Ridge--Laymon

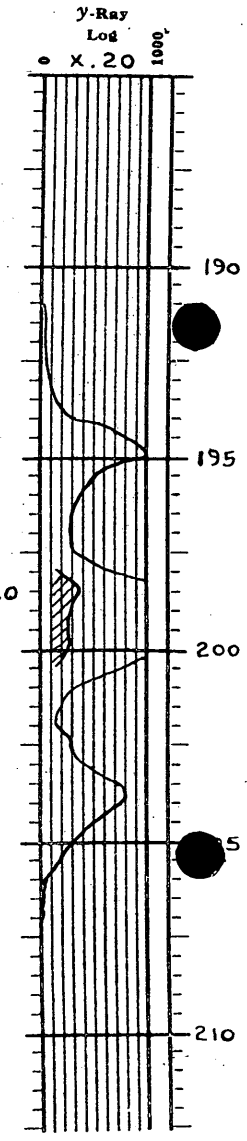
Map coord (T) DMEA #4889 Phase II
Map coord (P) 115' S of #6
Sec. 27 T. 52N R. 66W
Co., State Crook County, Wyoming

Claim Laymon Lease
Date completed 11/22/58
Date logged 11/22/58
Logged by A. Stoick

Summary of log Ore ; OBSS 172-212 thick 40.0 ; SS color LGy-Gy ; MS None ; Cbn S

| FOOTAGE Top | FOOTAGE Base | FOOTAGE Thick | CORE REC | FIELD EST $U_3O_8$ | FIELD EST $V_2O_5$ | DESCRIPTION Rock | Color | Grain | Access mins | Cbn | M S in S S | Other remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 12.0 | 12 | Plug | | | Sh | Tn-Bn | Sdy | | | Gy | Dakota |
| | 28.0 | 16 | | | | SS | LTn | VF | Fe | Tr | Gy | |
| | 50.0 | 22 | | | | SS | Gy | VF | | Tr | | |
| | 58.0 | 8 | | | | SS | LTn | VF | Gyp | Tr | | |
| 58.0 | 66.0 | 8 | | | | St/Sh | Gy | Sty | | | | T/Fuson - hard |
| | 94.0 | 28 | | | | Sh | Gy | | | | | Darker & silty @ base |
| | 104.0 | 10 | | | | St | Gy-DGy | | | | Gy | Sdy @ base |
| | 106.0 | 2 | | | | SS | LGy | VF | Tr Gyp | | | Silty |
| | 134.0 | 28 | | | | St | Gy | Sdy | | | | 112-118 VF SS + damp |
| | 144.0 | 10 | | | | ST | Gy | | | | | |
| | 148.0 | 4 | | | | Sh | LGy | Sty | | | | |
| | 172.0 | 24 | | | | ST | LGy | Sdy | | | | Sdy 156 - 172 |
| 172.0 | 188.0 | 16 | | | | SS | LGy | VF | | Tr | N | T/Lakota x1.0 |
| | 192.0 | 4 | | | | SS | LGy | F-M | Fe, Pyr | Tr | N | |
| | 204.0 | 12 | | | | SS | Gy | F-M | Pyr,Kao | S | N | |
| | 212.0 | 8 | | | | SS | LGy | M-C | Fe | S | N | |
| 212.0 | 222.0 | 10 | | | | SS | Gy | F | | | | |
| | 232.0 | 10 | | | | SS | Gy | M-C | | | | |
| | 240.0 | 8 | | | | SS | Gy | VC | | | | Gritty W/Pink stain |
| | | | | | | | | | | | | One hour standby to probe to 240.0' |

| SAMPLE Base | SAMPLE Thick | LAB ASSAY (%) $U_3O_8$* | $V_2O_5$ | $CaCO_3$ | SAMPLE Base | SAMPLE Thick | LAB ASSAY (%) $U_3O_8$* | $V_2O_5$ | $CaCO_3$ | INTERVAL Base | INTERVAL Thick | γ-RAY % $eU_3O_8$ | INTERVAL Base | INTERVAL Thick | γ-RAY % $eU_3O_8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 194.0 | 2.0 | 0.06 | | | | | | | | | | | 195.5 | 1.0 | 0.15 |
| 196.0 | 2.0 | 0.03 | | | | | | | | | | | 200.0 | 2.5 | 0.23 |
| 198.0 | 2.0 | 0.15 | | | | | | | | | | | 204.0 | 1.0 | 0.13 |
| 200.0 | 2.0 | 0.09 | | | | | | | | | | | | | |
| 202.0 | 2.0 | 0.06 | | | | | | | | | | | | | |
| 204.0 | 2.0 | 0.06 | | | | | | | | | | | | | |

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Hole No. 26

* Assays marked "e" are from lab gamma-ray readings

COLORADO PRINTING CO.

# MINCON

P. O. BOX 270

GRAND JUNCTION, COLORADO

## GEOLOGIC AND ASSAY LOG

Drill-hole No. 27 ( )
Total depth 210.0
Collar elev. T 4377.3 P
Area Balboa--Thorn Ridge--Laymon

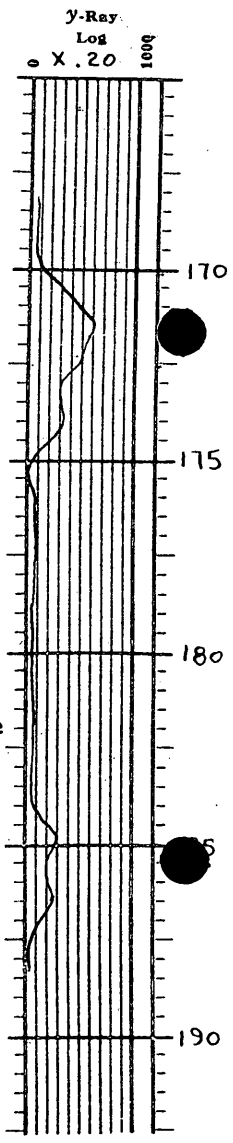
Map coord (T) DMEA #4889 Phase II
Map coord (P) 115' E of 12-X
Sec. 27 T. 52N R. 66W
Co., State Crook County, Wyoming

Claim Laymon Lease
Date completed 11/15-14/58
Date logged 11/15/58
Logged by A. Stoick

Summary of log Mineralized ; OBSS 164-206 thick 42' ; SS color LGy ; MS Gy-Gn ; Cbn Tr

| FOOTAGE Top | FOOTAGE Base | FOOTAGE Thick | CORE REC | FIELD EST $U_3O_8$ | FIELD EST $V_2O_5$ | DESCRIPTION Rock | Color | Grain | Access mins | Cbn | MS in SS | Other remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 14.0 | 14 | Plug | | | SH/SS | Gy-Tn | F | | Tr | | Dakota |
| | 26.0 | 12 | | | | SS | Tn-Gy | F | | | | |
| | 28.0 | 2 | | | | SS | LGy-Tn | F | | | Gy | |
| | 38.0 | 10 | | | | SS | LGy | F | | | | |
| | 58.0 | 20 | | | | SS | LGy-Tn | VF | | | | |
| 58.0 | 64.0 | 6 | | | | ST | Gy | | | | | T/Fuson |
| | 84.0 | 20 | | | | Sh | Gy | | | | | |
| | 94.0 | 10 | | | | SH | Gy-DGy | | | | | |
| | 140.0 | 46 | | | | St | Gy | Sdy | | | | |
| | 144.0 | 4 | | | | St | Gy | | | | | |
| | 156.0 | 12 | | | | Sh | LGy | Sty | | | | |
| | 164.0 | 8 | | | | St | LGy | | | | | |
| 164.0 | 174.0 | 10 | | | | SS | LGy | VF | Tr Pyr | Tr | | T/Lakota--silty |
| | 206.0 | 32 | | | | SS | LGy | VF-F | | | | |
| | 210.0 | 4 | | | | MS | Gy-Gn | | | | | Drilled w/water |
| | | | | | | | | | | | Note: | Drilled below 190 because count @ 187' and no Ms yet. |
| | | | | | | | | | | | | 1 hour standby to probe to 210.0' |

| SAMPLE Base | SAMPLE Thick | LAB ASSAY (%) $U_3O_8$* | $V_2O_5$ | $CaCO_3$ | SAMPLE Base | SAMPLE Thick | LAB ASSAY (%) $U_3O_8$* | $V_2O_5$ | $CaCO_3$ | INTERVAL Base | INTERVAL Thick | γ-RAY % $eU_3O_8$ | INTERVAL Base | INTERVAL Thick | γ-RAY % $eU_3O_8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 172.0 | 2.0 | 0.08 | | | | | | | | | | | 172.5 | 1.0 | 0.10 |

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Hole No. 27

* Assays marked "e" are from lab gamma-ray readings

COLORADO PRINTING CO.

# MINCON

P. O. BOX 270

GRAND JUNCTION, COLORADO

## GEOLOGIC AND ASSAY LOG

Drill-hole No. 28 ( )
Total depth 190
Collar elev. T 4373.9 P
Area Balboa--Thorn Ridge--Laymon

Map coord (T) DMEA #4889 Phase II
Map coord (P) 115'W of 12-X
Sec. 27 T. 52N R. 66W
Co., State Crook County, Wyoming

Claim Laymon Lease
Date completed 11/13/58 to 11/14/58
Date logged 11/14/58
Logged by A. Stoick

Summary of log semifavorable ; OBSS 160-183 thick 23 ; SS color LGy ; MS Gy-Gn-Gy ; Cbn Tr

| FOOTAGE Top | Base | Thick | CORE REC | FIELD EST $U_3O_8$ | $V_2O_5$ | DESCRIPTION Rock | Color | Grain | Access mins | Cbn | M S in S S | Other remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 8.0 | 8 | Plug | | | Fill | | | | | | Dam fill |
| | 14.0 | 6 | | | | Sh | Bn-Gy | Sdy | | | | Dakota |
| | 26.0 | 12 | | | | SS | Tn-Bn | F | Fe | | | |
| | 58.0 | 32 | | | | SS | LGy | F | | Tr | | |
| 58.0 | 64.0 | 6 | | | | St | Gy | | | | | T/Fuson |
| | 102.0 | 38 | | | | Sh | Gy | | | | | Sty @ base |
| | 144.0 | 42 | | | | St | Gy | | Tr Fe | Tr | | |
| | 156.0 | 12 | | | | Sh | LGy | Sty | | Tr | | |
| | 160.0 | 4 | | | | St | LGy | | | Tr | | |
| 160.0 | 180.0 | 20 | | | | SS | LGy | F | Tr Fe | Tr | | |
| | 183.0 | 3 | | | | SS | LGy | VF-Sty | | | | |
| | 190.0 | 7 | | | | MS | Gy-GnGy | | | | | |

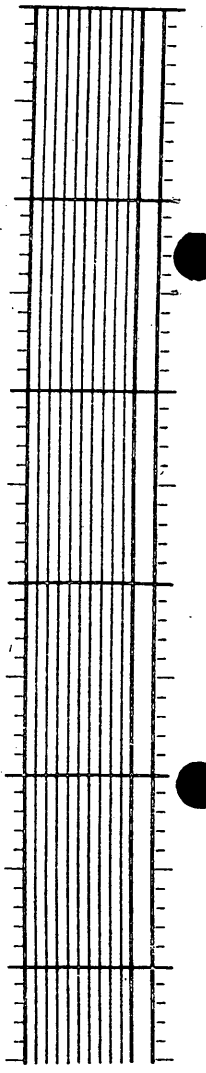
Entire hole drilled w/water.

Max. $eU_3O_8$ 0.06 @ 174.5'
1 hour standby to probe to 186.5

| SAMPLE Base | Thick | LAB ASSAY (%) $U_3O_8$* | $V_2O_5$ | $CaCO_3$ | SAMPLE Base | Thick | LAB ASSAY (%) $U_3O_8$* | $V_2O_5$ | $CaCO_3$ | INTERVAL Base | Thick | γ-RAY % $eU_3O_8$ | INTERVAL Base | Thick | γ-RAY % $eU_3O_8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | 175.0 | 2.0 | 0.03 |

* Assays marked "e" are from lab gamma-ray readings

γ-Ray Log




Rev.
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Hole No. 28

COLORADO PRINTING CO.

# MINCON

P. O. BOX 270 — GRAND JUNCTION, COLORADO

## GEOLOGIC AND ASSAY LOG

Drill-hole No. 29 ( )
Total depth 190
Collar elev. T 4374.0 P
Area Balboa--Thorn Ridge--Laymon

Map coord (T) DMEA #4889 Phase II
Map coord (P) 140' S of 12-X
Sec. 27 T. 52 N R. 66 W
Co., State Crook County, Wyoming

Claim Laymon Lease
Date completed 11/15/58 - 11/20/58
Date logged 11/22/58
Logged by A. Stoick

Summary of log Unfavorable ; OBSS 168-185 thick 17 ; SS color LGy ; MS Gy ; Cbn Tr

| FOOTAGE Top | FOOTAGE Base | FOOTAGE Thick | CORE REC | FIELD EST $U_3O_8$ | FIELD EST $V_2O_5$ | DESCRIPTION Rock | Color | Grain | Access mins | Cbn | M S in S S | Other remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 10.0 | 10 | Plug | | | SS/Sh | Tn-Bn | VF | | | | Dakota soil |
| | 28.0 | 18 | | | | SS | Tn | VF | | | L Gy-Gy | |
| | 54.0 | 26 | | | | SS | LGy | VF | | | | Tr Cbn 46-54' |
| 54.0 | 62.0 | 8 | | | | ST | Gy | | | | | T/Fuson |
| | 82.0 | 20 | | | | Sh | Gy | | | | | |
| | 90.0 | 8 | | | | Sh | DGy | | | | | |
| | 102.0 | 12 | | | | Sh | Gy | Sty | | | | |
| | 104.0 | 2 | | | | SS | LGy | VF-Sty | | | | |
| | 106.0 | 2 | | | | St | LGy | | | | | |
| | 114.0 | 8 | | | | St-Sh | Gy | | | | | |
| | 138.0 | 24 | | | | St | Gy | Sdy | | | | |
| | 144.0 | 6 | | | | St | Gy | | | Tr | | |
| | 150.0 | 6 | | | | Sh | Gy-LGy | Sty | Tr Pyr | Tr | | |
| | 164.0 | 14 | | | | St | Gy-LGy | | Tr Pyr | Tr | | |
| | 168.0 | 4 | | | | SS | LGy | VF-Sty | | Tr | | |
| 168.0 | 185.0 | 17 | | | | SS | LGy | VF | | Tr | | T/Lakota |
| | 190.0 | 5 | | | | MS | Gy | | | | | |
| | | | | | | | | | | | | Probed to 190.0' |
| | | | | | | | | | | | | Barren |

| SAMPLE Base | SAMPLE Thick | LAB ASSAY (%) $U_3O_8$* | LAB ASSAY (%) $V_2O_5$ | LAB ASSAY (%) $CaCO_3$ | SAMPLE Base | SAMPLE Thick | LAB ASSAY (%) $U_3O_8$* | LAB ASSAY (%) $V_2O_5$ | LAB ASSAY (%) $CaCO_3$ | INTERVAL Base | INTERVAL Thick | γ-RAY % $eU_3O_8$ | INTERVAL Base | INTERVAL Thick | γ-RAY % $eU_3O_8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | |

γ-Ray Log 0 — 1000

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Hole No. 29

* Assays marked "e" are from lab gamma-ray readings

COLORADO PRINTING CO.

# MINCON

**GEOLOGIC AND ASSAY LOG**

P. O. BOX 270

GRAND JUNCTION, COLORADO

Drill-hole No. 30 ( )
Total depth 240
Collar elev. T 4386.2 P
Area Balboa--Thorn Ridge--Laymon

Map coord (T) DMEA #4889 Phase II
Map coord (P) 150' S 45° W of #22
Sec. 27 T. 52 N R. 66 W
Co., State Crook County, Wyoming

Claim Laymon Lease
Date completed 11/23/58
Date logged 11/23/58
Logged by A. Stoick

Summary of log Semifavorable ; OBSS 176-203 thick 27 ; SS color LGy-Gy ; MS Gy-GyGn ; Cbn Tr-S

| FOOTAGE Top | Base | Thick | CORE REC | FIELD EST $U_3O_8$ | $V_2O_5$ | DESCRIPTION Rock | Color | Grain | Access mins | Cbn | M S in S S | Other remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 12.0 | 12 | Plug | | | Sh/SS | LGy-Bn | F | | | | Dakota |
| | 30.0 | 18 | | | | SS | Tn | F | | Tr | | D Gy Sh @ base |
| | 50.0 | 20 | | | | SS | LGy | F | | Tr | Tr Bn | |
| | 60.0 | 10 | | | | SS | L Tn | | | Tr | | |
| 60.0 | 94.0 | 34 | | | | Sh | Gy | Sty | | | | T/Fuson |
| | 104.0 | 10 | | | | St | Gy | | | | | |
| | 108.0 | 4 | | | | SS | LGy | VF | | | | Silty |
| | 124.0 | 16 | | | | St | Gy | Sdy | | | | |
| | 136.0 | 12 | | | | SS | Gy | VF-Sty | | | | Damp |
| | 144.0 | 8 | | | | St | Gy | | | | | |
| | 154.0 | 10 | | | | Sh | LGy | Sty | | | | |
| | 162.0 | 8 | | | | St | Gy | | | | | |
| | 176.0 | 14 | | | | St | LGy | Sdy | | | | |
| 176.0 | 186.0 | 10 | | | | SS | LGy-Gy | VF | | Tr | | T/Lakota |
| | 194.0 | 8 | | | | SS | Gy | F-M | Pyr | S | | |
| | 203.0 | 9 | | | | SS | LGy-Gy | F-M | | | | |
| 203.0 | 209.0 | 6 | | | | MS | Gy-GyGn | | | | | |
| | 218.0 | 9 | | | | SS | LGy | VF-Sty | | | Tr Gy MS | |
| | 226.0 | 8 | | | | St | LGy-Bn | Sdy | | | | |
| | 240.0 | 14 | | | | St | Gy-Tn | | | | | |
| | | | | | | | | | | | | Probed to 240.0 |
| | | | | | | | | | | | | Barren |

| SAMPLE Base | Thick | LAB ASSAY (%) $U_3O_8$* | $V_2O_5$ | $CaCO_3$ | SAMPLE Base | Thick | LAB ASSAY (%) $U_3O_8$* | $V_2O_5$ | $CaCO_3$ | INTERVAL Base | Thick | γ-RAY % $cU_3O_8$ | INTERVAL Base | Thick | γ-RAY % $cU_3O_8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | |

* Assays marked "c" are from lab gamma-ray readings

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Hole No. 30

COLORADO PRINTING CO.

# MINCON

P. O. BOX 270 — GRAND JUNCTION, COLORADO

## GEOLOGIC AND ASSAY LOG

Drill-hole No. 31 ( )
Total depth 240
Collar elev. T 4384.2 P
Area Thorn Ridge - Laymon

Map coord (T) DMEA #4889 Phase II
Map coord (P) 110' W of #22
Sec. 27 T. 52N R. 66W
Co., State Crook County, Wyoming

Claim Laymon Lease
Date completed 11/23/58
Date logged 11/23/58
Logged by A. Stoick

Summary of log favorable ; OBSS 174-204 thick 30' ; SS color LGy-Gy ; MS Gy-Gn ; Cbn Tr

| FOOTAGE Top | Base | Thick | CORE REC | FIELD EST $U_3O_8$ | $V_2O_5$ | DESCRIPTION Rock | Color | Grain | Access mins | Cbn | M S in S S | Other remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 10.0 | 10 | Plug | | | Sh | Tn-Bn | Sdy | | | | Dakota |
| | 26.0 | 16 | | | | SS | LTn-Tn | VF-F | | | | |
| | 54.0 | 28 | | | | SS | Tn-LGy | F | | | | |
| | 60.0 | 6 | | | | SS | Tn | F | | Tr | | |
| 60.0 | 66.0 | 6 | | | | St | Gy | | | | | T/Fuson |
| | 90.0 | 24 | | | | Sh | Gy | Sty | | | | |
| | 96.0 | 6 | | | | Sh | Gy-DGy | | | | | |
| | 102.0 | 6 | | | | Sh | Gy-DGy | Sty | | | | |
| | 106.0 | 4 | | | | SS | LGy | VF | | | | Silty |
| | 134.0 | 28 | | | | St | LGy-Gy | Sdy | | | | |
| | 144.0 | 10 | | | | St | Gy | | | | | |
| | 156.0 | 12 | | | | Sh | LGy | Sty | | | | |
| | 174.0 | 18 | | | | St | LGy | Sdy | | | | |
| 174.0 | 180.0 | 6 | | | | SS | LGy-Gy | VF | | Tr | | T/Lakota |
| | 190.0 | 10 | | | | SS | Gy | F | | | | |
| | 196.0 | 6 | | | | SS | Gy | F-M | | Tr | | |
| | 204.0 | 8 | | | | SS | LGy-Gy | F | | | | |
| | 207.0 | 3 | | | | MS | GyGn | | | | | |
| | 218.0 | 11 | | | | SS | LGy | Sty | Tr Pyr | | | |
| | 230.0 | 12 | | | | St | LGy | | | | | Sandy @ base |
| | 240.0 | 10 | | | | SS | LGy | VF | | | | |
| | | | | | | | | | | | | Probed to 240' |
| | | | | | | | | | | | | Tr min. @ 204'. |

| SAMPLE Base | Thick | LAB ASSAY (%) $U_3O_8$* | $V_2O_5$ | $CaCO_3$ | SAMPLE Base | Thick | LAB ASSAY (%) $U_3O_8$* | $V_2O_5$ | $CaCO_3$ | INTERVAL Base | Thick | γ-RAY % $eU_3O_8$ | INTERVAL Base | Thick | γ-RAY % $eU_3O_8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | 204.0 | 0.5 | Tr |

* Assays marked "e" are from lab gamma-ray readings

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Hole No. 31

COLORADO PRINTING CO.

# MINCON

P. O. BOX 270

GRAND JUNCTION, COLORADO

## GEOLOGIC AND ASSAY LOG

Drill-hole No. 32 (.....)
Total depth 232
Collar elev. ..... T 4382.2 P
Area Balboa--Thorn Ridge--Laymon

Map coord (T) DMEA 4889 Phase II
Map coord (P) 150' NW of #22
Sec. 27 T. 52N R. 66W
Co., State Crook County, Wyoming

Claim Laymon Lease
Date completed 11/23/58
Date logged 11/24/58
Logged by A. Stotck

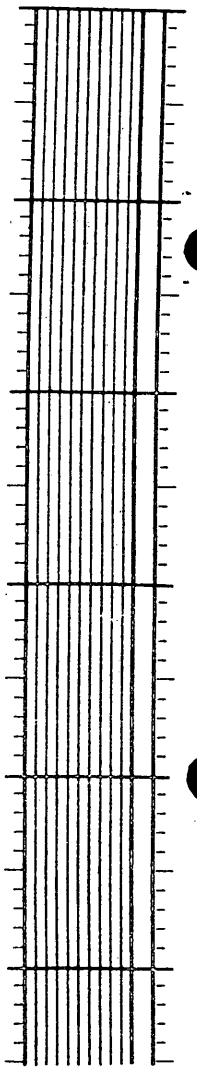
Summary of log semifavorable ; OBSS 174-197 thick 23 ; SS color Gy-LGy ; MS Gy-Gn ; Cbn Tr

| FOOTAGE Top | FOOTAGE Base | FOOTAGE Thick | CORE REC | FIELD EST $U_3O_8$ | FIELD EST $V_2O_5$ | DESCRIPTION Rock | Color | Grain | Access mins | Cbn | M S in S S | Other remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 15.0 | 15 | Plug | | | Sh | Tn-Gy | Sdy | | | | Dakota |
| | 31.0 | 16 | | | | SS | Tn | F | | | | |
| | 50.0 | 19 | | | | SS | LGy | F | | | | |
| | 54.0 | 4 | | | | SS | LGy-LTn | VF | | | Gy | |
| | 60.0 | 6 | | | | SS | Tn | VF | | | | |
| 60.0 | 67.0 | 7 | | | | St | Gy | | | | | T/Fuson |
| | 96.0 | 29 | | | | Sh | Gy-DGy | | | | | |
| | 104.0 | 8 | | | | Sh | Gy-DGy | Sty | | | | |
| | 108.0 | 4 | | | | SS | LGy | VF | | | | |
| | 116.0 | 8 | | | | ST | LGy | | | | | |
| | 132.0 | 16 | | | | St | LGy | Sdy | | | | |
| | 146.0 | 14 | | | | St | Gy | | | | | |
| | 158.0 | 12 | | | | Sh | Gy | Sty | | | | |
| | 174.0 | 16 | | | | St | LGy | Sdy | | | | |
| 174.0 | 184.0 | 10 | | | | SS | LGy-Gy | VF | Tr Pyr | N | | T/Lakota |
| | 197.0 | 13 | | | | SS | LGy-Gy | F | Tr Pyr | Tr | | |
| | 207.0 | 10 | | | | Ms | GyGn | | | | | |
| | 214.0 | 7 | | | | SS | LGy- | VF-Sty | | Tr | | |
| | 232.0 | 18 | | | | ST | LGy | Sdy | | | | |
| | | | | | | | | | | | | Probed to 232.0' |
| | | | | | | | | | | | | Tr of min. |

| SAMPLE Base | SAMPLE Thick | LAB ASSAY (%) $U_3O_8$* | $V_2O_5$ | $CaCO_3$ | SAMPLE Base | SAMPLE Thick | LAB ASSAY (%) $U_3O_8$* | $V_2O_5$ | $CaCO_3$ | INTERVAL Base | INTERVAL Thick | γ-RAY % $eU_3O_8$ | INTERVAL Base | INTERVAL Thick | γ-RAY % $eU_3O_8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | 183.5 | 0.5 | 0.01 |
| | | | | | | | | | | | | | 230.5 | 1.0 | 0.01 |

* Assays marked "e" are from lab gamma-ray readings

γ-Ray Log

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Hole No. 32

COLORADO PRINTING CO.

# MINCON

P. O. BOX 270

GRAND JUNCTION, COLORADO

## GEOLOGIC AND ASSAY LOG

Drill-hole No. 33 ( )
Total depth 240
Collar elev. T 4396.0 P
Area Balboa--Thorn Ridge--Laymon

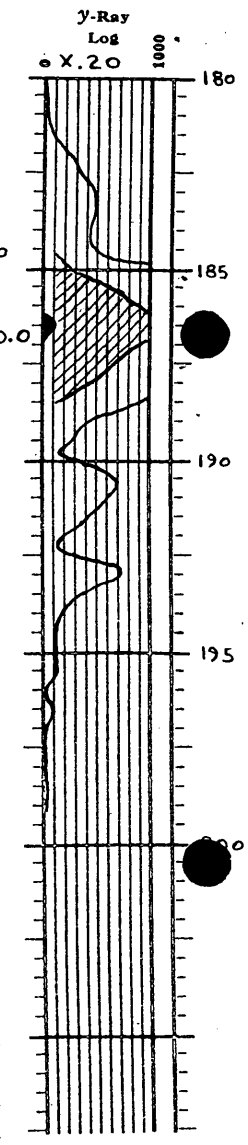
Map coord (T) DMEA #4889 Phase II
Map coord (P) 170' N 45° E of #24
Sec. 27 T. 52 N R. 66W
Co., State Crook County, Wyoming

Claim Laymon Lease
Date completed 11/24/58
Date logged 11/24/58
Logged by A. Stoick

Summary of log ore ; OBSS 174-204 thick 30' ; SS color LGy-BnGy ; MS LGy ; Cbn S-A

| FOOTAGE Top | Base | Thick | CORE REC | FIELD EST $U_3O_8$ | $V_2O_5$ | DESCRIPTION Rock | Color | Grain | Access mins | Cbn | M S in S S | Other remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 12.0 | 12 | Plug | | | Sh/SS | Bn-Tn | VF | | | | Dakota |
| | 30.0 | 18 | | | | SS | Tn-LTn | F | | | Tr L Gy | x1.0 |
| | 50.0 | 20 | | | | SS | LGy | F | | Tr | | |
| | 60.0 | 10 | | | | SS | LTn-Tn | F | Gyp | Tr | | |
| 60.0 | 94.0 | 34 | | | | Sh | Gy | Sty | | | | T/Fuson x10.0 |
| | 106.0 | 12 | | | | St | Gy | | Pyr | | | Sdy @ base. |
| | 114.0 | 8 | | | | St | LGy | | | Tr | | |
| | 124.0 | 10 | | | | SS | Gy | VF-Sty | | | | Damp |
| | 132.0 | 8 | | | | St | Gy | Sdy | | | | |
| | 142.0 | 10 | | | | St | Gy | | | | | |
| | 156.0 | 14 | | | | Sh | LGy-Gy | Sty | Pyr | Tr | | |
| | 174.0 | 18 | | | | St | LGy | | | | | Sdy @ base |
| 174.0 | 188.0 | 14 | | | | SS | LGy-Gn | VF | Tr Pyr | S | | T/Lakota |
| | 190.0 | 2 | | | | SS | Gy-BnGy | F-M | Kaolin | A | | |
| | 194.0 | 4 | | | | SS | DGy-LGy | VF | | A | | |
| | 204.0 | 10 | | | | SS | LGy-Tn | VF | | | LGy | GyMS @ base |
| 204.0 | 224.0 | 20 | | | | SS | Tn | M-C | Tr Pyr | | Tr Gy | Conglomeratic |
| | 240.0 | 16 | | | | SS | LGy | M-VC | | | | |
| | | | | | | | | | | | | 1 hour standby to probe to 239.0 |

| SAMPLE Base | Thick | LAB ASSAY (%) $U_3O_8$* | $V_2O_5$ | $CaCO_3$ | SAMPLE Base | Thick | LAB ASSAY (%) $U_3O_8$* | $V_2O_5$ | $CaCO_3$ | INTERVAL Base | Thick | γ-RAY % e$U_3O_8$ | INTERVAL Base | Thick | γ-RAY % e$U_3O_8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 186.0 | 2.0 | 0.26 | | | | | | | | | | | 188.5 | 4.0 | 0.58 |
| 188.0 | 2.0 | 0.65 | 0.78 | | | | | | | | | | | | |
| 190.0 | 2.0 | 0.15 | | | | | | | | | | | | | |
| 192.0 | 2.0 | 0.09 | | | | | | | | | | | | | |

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Hole No. 33

* Assays marked "e" are from lab gamma-ray readings

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**GEOLOGIC AND ASSAY LOG** — P. O. BOX 270 — GRAND JUNCTION, COLORADO

Drill-hole No. 34 ( )
Total depth 240.0
Collar elev. T 4398.5 P
Area Balboa--Thorn Ridge--Laymon

Map coord (T) DMEA #4889 Phase II
Map coord (P) 120' E of #24
Sec. 27 T. 52 N R. 66 W
Co., State Crook County, Wyoming

Claim Laymon Lease
Date completed 11/24/58
Date logged 11/24/58
Logged by A. Stoick

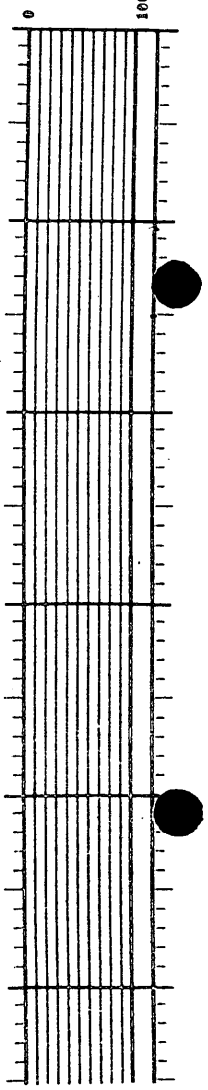
Summary of log Favorable ; OBSS 174-210 thick 36 ; SS color LTn ; MS Gy ; Cbn N

| FOOTAGE Top | FOOTAGE Base | FOOTAGE Thick | CORE REC | FIELD EST $U_3O_8$ | FIELD EST $V_2O_5$ | DESCRIPTION Rock | Color | Grain | Access mins | Cbn | M S in S S | Other remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 16.0 | 16 | Plug | | | SS/Sh | Tn/Gy | F | | | | Dakota |
| | 29.0 | 13 | | | | SS | Tn-Bn | F | | | Gy | Sh @ base. |
| | 50.0 | 21 | | | | SS | LGy | F | | | | |
| | 58.0 | 8 | | | | SS | LTn VF | VF | | | | |
| 58.0 | 66.0 | 8 | | | | St | LGy | | | | | T/Fuson |
| | 86.0 | 20 | | | | Sh | LGy | | | | | |
| | 102.0 | 16 | | | | Sh | Gy | | | | | Sty @ base |
| | 104.0 | 2 | | | | SS | LGy | VF | | | | |
| | 142.0 | 38 | | | | St | LGy | | | | | Sdy in part |
| | 152.0 | 10 | | | | Sh | LGy | Sty | | | | Darker @ base. |
| | 174.0 | 22 | | | | St | LGy | | | Tr | | Sdy @ base w/cbn |
| 174.0 | 178.0 | 4 | | | | SS | LGy | VF | | N | | T/Lakota |
| | 210.0 | 32 | | | | SS | LTn | VF-F | | N | Gy | |
| | 228.0 | 18 | | | | SS | Tn | F-VC | | | | |
| | 240.0 | 12 | | | | SS | LGy | M-C | | | | |
| | | | | | | | | | | | | Probed to 238.6' |
| | | | | | | | | | | | | Tr min @ 210' |

| SAMPLE Base | SAMPLE Thick | LAB ASSAY (%) $U_3O_8$* | $V_2O_5$ | $CaCO_3$ | SAMPLE Base | SAMPLE Thick | LAB ASSAY (%) $U_3O_8$* | $V_2O_5$ | $CaCO_3$ | INTERVAL Base | INTERVAL Thick | γ-RAY % $eU_3O_8$ | INTERVAL Base | INTERVAL Thick | γ-RAY % $eU_3O_8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | 210.0 | 1.0 | Tr |

* Assays marked "e" are from lab gamma-ray readings

γ-Ray Log

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Hole No. 34

COLORADO PRINTING CO.

# MINCON

P. O. BOX 270

GRAND JUNCTION, COLORADO

## GEOLOGIC AND ASSAY LOG

Drill-hole No. 35 ( )
Total depth 240
Collar elev. T 4393.5 P
Area Balboa--Thorn Ridge--Laymon

Map coord (T) DMEA #4889 Phase II
Map coord (P) 120' N of #24
Sec. 27 T. 52 N R. 66 W
Co., State Crook County, Wyoming

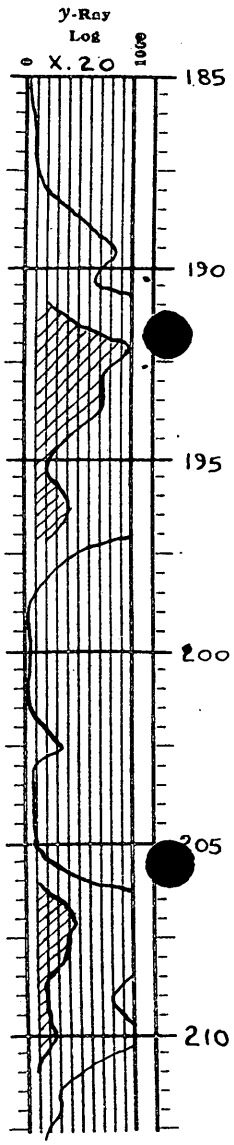
Claim Laymon Lease
Date completed 11/26/58
Date logged 11/26/58
Logged by A. Stoick

Summary of log ore ; OBSS 174-214 thick 40 ; SS color LGy-DGy ; MS Gy ; Cbn S-A

| FOOTAGE Top | Base | Thick | CORE REC | FIELD EST $U_3O_8$ | $V_2O_5$ | DESCRIPTION Rock | Color | Grain | Access mins | Cbn | M S in S S | Other remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 15.0 | 15 | Plug | | | Sh/SS | Gy-Tn | F | | S | | Dakota |
| | 30.0 | 15 | | | | SS | Tn | F | | Tr | | |
| | 52.0 | 22 | | | | SS | LGy | F | | Tr | | |
| | 60.0 | 8 | | | | SS | LTn | F | | | | ×1.0 |
| 60.0 | 66.0 | 6 | | | | St | Gy | | | | | T/Fuson |
| | 100.0 | 34 | | | | Sh | Gy | | | | | Silty in part |
| | 106.0 | 6 | | | | St | Gy | | | | | |
| | 108.0 | 2 | | | | SS | LGy | VF | | | | |
| | 116.0 | 8 | | | | St | LGy | Sdy | | | | |
| | 132.0 | 16 | | | | SS | LGy | VF | | | | Silty & damp |
| | 136.0 | 4 | | | | St | Gy | Sdy | | | | |
| | 146.0 | 10 | | | | St | Gy | | | | | |
| | 154.0 | 8 | | | | Sh | LGy | Sty | | | | |
| | 158.0 | 4 | | | | Sh | Gy-DGy | | | A | | |
| | 164.0 | 6 | | | | St | LGy | Sdy | | | | |
| | 174.0 | 10 | | | | SS | LGy | VF | | | | Silty |
| 174.0 | 190.0 | 16 | | | | SS | LGy | VF | Fe,Pyr | S | | T/Lakota |
| | 198.0 | 8 | | 0.30 | | SS | DGy-Gy | F-M | Pyr | A | | |
| | 206.0 | 8 | | | | SS | LGy-Gy | F-VF | Pyr | A | | |
| | 214.0 | 8 | | | | SS | LGy-Gy | VF | Tr Pyr | S | | |
| | 226.0 | 12 | | | | SS | Tn | F-VC | Tr Pyr | Tr | Gy | |
| | 240.0 | 14 | | | | SS | LGy-Tn | M-VC | | | | Grit - Congl. ×1.0 |
| | | | | | | | | | | | | 1 hour standby to |
| | | | | | | | | | | | | probe to 239.5' |

| SAMPLE Base | Thick | LAB ASSAY (%) $U_3O_8$* | $V_2O_5$ | $CaCO_3$ | SAMPLE Base | Thick | LAB ASSAY (%) $U_3O_8$* | $V_2O_5$ | $CaCO_3$ | INTERVAL Base | Thick | y-RAY % e$U_3O_8$ | INTERVAL Base | Thick | y-RAY % e$U_3O_8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 190.0 | 2.0 | 0.06 | | | | | | | | | | | 197.0 | 8.0 | 0.39 |
| 192.0 | 2.0 | 0.51 | 1.09 | | | | | | | | | | 210.5 | 4.0 | 0.26 |
| 194.0 | 2.0 | 0.41 | 0.74 | | | | | | | | | | | | |
| 196.0 | 2.0 | 0.24 | | | | | | | | | | | | | |
| 198.0 | 2.0 | 0.04 | | | | | | | | | | | | | |
| 206.0 | 2.0 | 0.15 | | | | | | | | | | | | | |
| 208.0 | 2.0 | 0.09 | | | | | | | | | | | | | |
| 210.0 | 2.0 | 0.05 | | | | | | | | | | | | | |
| 212.0 | 2.0 | 0.03 | | | | | | | | | | | | | |

* Assays marked "e" are from lab gamma-ray readings




Rev.
Ed.

Hole No. 35

COLORADO PRINTING CO.

# MINCON

**GEOLOGIC AND ASSAY LOG**

P. O. BOX 270

GRAND JUNCTION, COLORADO

Drill-hole No. 36 (.....)
Total depth 225
Collar elev. T 4398.5 P
Area Balboa--Thorn Ridge--Laymon

Map coord (T) DMEA 4889 Phase II
Map coord (P) 120' E of #333
Sec. 27 T. 52 N R. 66 W
Co., State Crook County, Wyoming

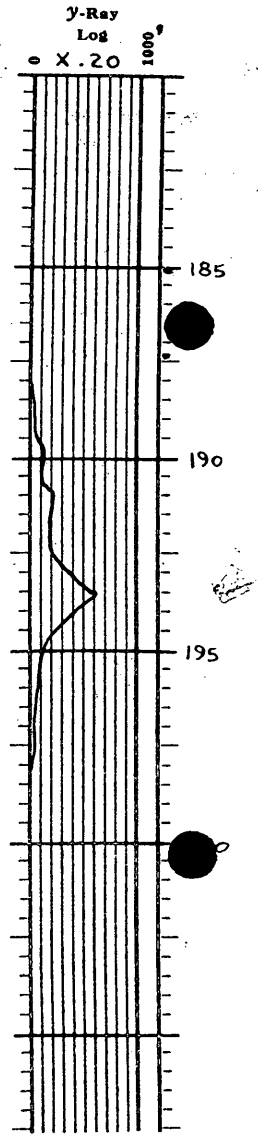
Claim Laymon Lease
Date completed 11/29/58
Date logged 11/30/58
Logged by A. Stoick

Summary of log mineralized ; OBSS 172-180 thick 8' ; SS color Gy ; MS LGy ; Cbn Tr
186-225 39 Gy-Tn N

| FOOTAGE Top | Base | Thick | CORE REC | FIELD EST $U_3O_8$ | $V_2O_5$ | DESCRIPTION Rock | Color | Grain | Access mins | Cbn | M S in S S | Other remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 14.0 | 14 | Plug | | | SS/Sh | Tn-Gy | F | | | | Dakota |
| | 30.0 | 16 | | | | SS | Tn-Bn | F | | | | w/Gy Sh @ 29' |
| | 40.0 | 10 | | | | SS | L Gy | F | | | | |
| | 50.0 | 10 | | | | SS | LGy-Tn | VF | | | | |
| | 58.0 | 8 | | | | SS | Tn-Bn | VF | | S | | |
| 58.0 | 66.0 | 8 | | | | St | Gy | | | | | T/ Fuson |
| | 94.0 | 28 | | | | Sh | Gy | | | | | Sty @ base |
| | 112.0 | 18 | | | | St | Gy-LGy | Sdy | | | | |
| | 130.0 | 18 | | | | St | Gy | Sdy | | | | Damp |
| | 142.0 | 12 | | | | St | LGy-Gy | | | | | |
| | 150.0 | 8 | | | | Sh | LGy | Sty | | | | |
| | 154.0 | 4 | | | | Sh | Gy-DGy | Sty | | S | | |
| | 172.0 | 18 | | | | St | LGy | Sdy | | | | Sdy @ base |
| 172.0 | 180.0 | 8 | | | | SS | Gy | VF | S-Pyr | Tr | | T/Lakota |
| | 186.0 | 6 | | | | SS/MS | LTn-Pk | VF | | | L Gy | |
| | 210.0 | 24 | | | | SS | Gy-Tn | M-VC | Tr. Hema | | | Grit - cong. |
| | 222.0 | 12 | | | | SS | LTn-LGy | M-F | | | | |
| | 225.0 | 3 | | | | SS | LGy | M | | | | |
| | | | | | | | | | | | | Probed to 225.0' |
| | | | | | | | | | | | | one half hour standby |

| SAMPLE Base | Thick | LAB ASSAY (%) $U_3O_8$* | $V_2O_5$ | $CaCO_3$ | SAMPLE Base | Thick | LAB ASSAY (%) $U_3O_8$* | $V_2O_5$ | $CaCO_3$ | INTERVAL Base | Thick | γ-RAY % $cU_3O_8$ | INTERVAL Base | Thick | γ-RAY % $cU_3O_8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | 194.0 | 1.0 | 0.08 |

* Assays marked "c" are from lab gamma-ray readings

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Hole No. 36

COLORADO PRINTING CO.

# MINCON

P. O. BOX 270

GRAND JUNCTION, COLORADO

## GEOLOGIC AND ASSAY LOG

Drill-hole No. 37 (.....)
Total depth 225
Collar elev. ..... T. 4396.5 P
Area Balboa--Thorn Ridge--Laymon

Map coord (T) DMEA # 4889 Phase II
Map coord (P) 170' N 45° E of #33
Sec. 27 T. 52 N R. 66 W
Co., State Crook County, Wyoming

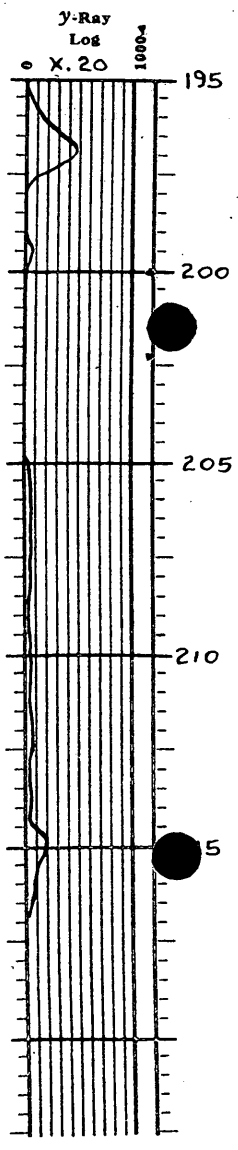
Claim Laymon Lease
Date completed 11/30/58
Date logged 12/1/58
Logged by A. Stoick

Summary of log favorable ; OBSS 172-214 thick 52' ; SS color LGy-LTn ; MS N ; Cbn Tr

| FOOTAGE Top | FOOTAGE Base | FOOTAGE Thick | CORE REC | FIELD EST $U_3O_8$ | FIELD EST $V_2O_5$ | DESCRIPTION Rock | Color | Grain | Access mins | Cbn | M S in S S | Other remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 13.0 | 13 | Plug | | | SS/Sh | Tn-Gy | F | | | | Dakota |
| | 30.0 | 17 | | | | SS | Tn-Bn | F | | | | |
| | 58.0 | 28 | | | | SS | LGy-LTn | F | | Tr | | Cbn @ base |
| 58.0 | 66.0 | 8 | | | | St | LGy | | | | | T/Fuson |
| | 94.0 | 28 | | | | Sh | Gy-DGy | Sty | | | | |
| | 110.0 | 16 | | | | St | Gy | Sdy | | | | |
| | 132.0 | 22 | | | | SS | LGy-Gy | VF-Sty | | | | |
| | 142.0 | 10 | | | | St | LGy-Gy | | | | | |
| | 158.0 | 16 | | | | Sh | LGy | Sty | | Tr | | |
| | 168.0 | 10 | | | | St | LGy | | | | | |
| | 172.0 | 4 | | | | SS | LGy | VF-Sty | | | | |
| 172.0 | 184.0 | 12 | | | | SS | LGy-Tn | VF-F | Pyr | S | | T/Lakota |
| | 212.0 | 38 | | | | SS | LGy-LTn | M-VC | | | | Grit @ base |
| | 214.0 | 2 | | | | SS | LGy-Gy | VF-F | | | | |
| | 225.0 | 11 | | | | SS | LGy | Silty | | | | |
| | | | | | | | | | | | | one half hour standby to probe to 224.0 feet |

| SAMPLE Base | SAMPLE Thick | LAB ASSAY (%) $U_3O_8$* | LAB ASSAY (%) $V_2O_5$ | LAB ASSAY (%) $CaCO_3$ | SAMPLE Base | SAMPLE Thick | LAB ASSAY (%) $U_3O_8$* | LAB ASSAY (%) $V_2O_5$ | LAB ASSAY (%) $CaCO_3$ | INTERVAL Base | INTERVAL Thick | γ-RAY % e$U_3O_8$ | INTERVAL Base | INTERVAL Thick | γ-RAY % e$U_3O_8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 198.0 | 2.0 | 0.013 | | | | | | | | | | | 197.0 | 0.5 | 0.08 |

* Assays marked "e" are from lab gamma-ray readings




Rev. .....
Ed. .....

Hole No. 37

COLORADO PRINTING CO.

# MINCON

P. O. BOX 270

GRAND JUNCTION, COLORADO

## GEOLOGIC AND ASSAY LOG

Drill-hole No. 38 ( )
Total depth 225
Collar elev. T 4393.5 P
Area Balboa--Thorn Ridge--Laymon

Map coord (T) DMEA # 4889 Phase II
Map coord (P) 120' N of #33
Sec. 27 T. 52 N R. 66W
Co., State Crook County, Wyoming

Claim Laymon Lease
Date completed 11/30/58
Date logged 12/1/58
Logged by A. Stoick

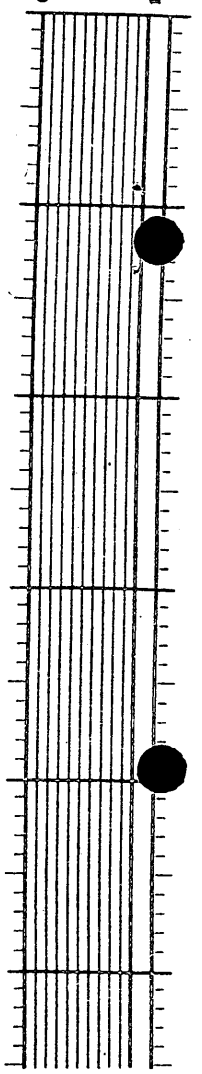
Summary of log favorable ; OBSS 172-225 thick 53+' ; SS color LGy-Tn MS Gy ; Cbn Tr

| FOOTAGE Top | Base | Thick | CORE REC | FIELD EST $U_3O_8$ | $V_2O_5$ | DESCRIPTION Rock | Color | Grain | Access mins | Cbn | M S in S S | Other remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 12.0 | 12. | Plug | | | SS/Sh | Tn-Bn | F | | | Gy | Dakota |
| | 28.0 | 16. | | | | SS | Tn | VF | | | | |
| | 60.0 | 32. | | | | SS | LGy | F | | Tr | | Tr Cbn @ base |
| 60.0 | 64.0 | 4. | | | | St | Gy | | | | | T/Fuson |
| | 82.0 | 18 | | | | Sh | Gy | | | | | |
| | 100.0 | 18 | | | | Sh | Gy | Sty | | | | |
| | 102.0 | 2 | | | | St | Gy | | | | | |
| | 104.0 | 2 | | | | SS | LGy | VF | | | | |
| | 114.0 | 10 | | | | St | LGy-Gy | | | | | |
| | 132.0 | 18 | | | | SS | LGy-Gy | VF-Sty | | | | Damp |
| | 142.0 | 10 | | | | St | Gy | | | | | Sdy in part |
| | 158.0 | 16 | | | | Sh | Gy | Sty | | Tr | | |
| | 172.0 | 14 | | | | St | LGy | Sdy | | | | |
| 172.0 | 182.0 | 10 | | | | SS | LGy | VF | | Tr | | T/Lakota |
| | 190.0 | 8 | | | | SS | LGy-Tn | F-VC | Tr Pyr | | Gy | |
| | 210.0 | 20 | | | | SS | LGy-Gy | F-VC | Kao | | | Grit |
| | 216.0 | 6 | | | | SS | Tn | F-VC | | | | |
| | 225.0 | 9 | | | | SS | LGy | M-VC | | | | Grit |
| | | | | | | | | | | | | Standby one half hour to probe to 224.0' |

| SAMPLE Base | Thick | LAB ASSAY (%) $U_3O_8$* | $V_2O_5$ | $CaCO_3$ | SAMPLE Base | Thick | LAB ASSAY (%) $U_3O_8$* | $V_2O_5$ | $CaCO_3$ | INTERVAL Base | Thick | γ-RAY % e$U_3O_8$ | INTERVAL Base | Thick | γ-RAY % e$U_3O_8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | 173.5 | 0.5 | 0.04 |
| | | | | | | | | | | | | | 186.0 | 2.0 | 0.02 |

* Assays marked "e" are from lab gamma-ray readings

γ-Ray Log

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Hole No. 38

COLORADO PRINTING CO.

# MINCON

P. O. BOX 270 — GRAND JUNCTION, COLORADO

## GEOLOGIC AND ASSAY LOG

Drill-hole No. 39 ( )
Total depth 225
Collar elev. T 4386.6 P
Area Balboa--Thorn Ridge--Laymon

Map coord (T) DMEA # 4889 Phase II
Map coord (P) 120' S of #26
Sec. 27 T. 52 N R. 66 W
Co., State Crook County, Wyoming

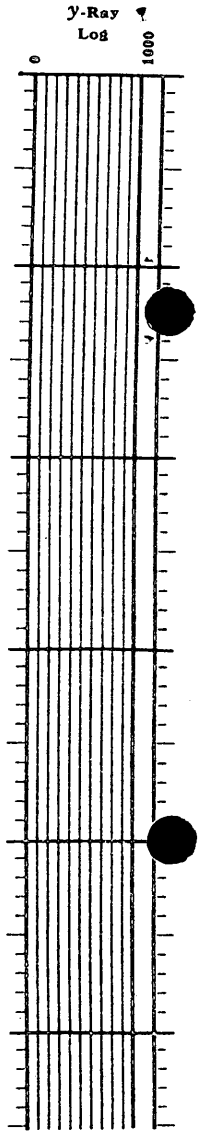
Claim Laymon Lease
Date completed 11/30/58
Date logged 12/1/58
Logged by A. Stoick

Summary of log favorable ; OBSS 172-225 thick 53' ; SS color LGy-Gy ; MS Tr Gy ; Cbn A

| FOOTAGE Top | Base | Thick | CORE REC | FIELD EST $U_3O_8$ | $V_2O_5$ | DESCRIPTION Rock | Color | Grain | Access mins | Cbn | M S in S S | Other remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 20.0 | 20 | Plug | | | SS/Sh | Tn/Gy | F | | | | Dakota |
| | 30.0 | 10 | | | | SS | Tn | VF | | | | |
| | 52.0 | 22 | | | | SS | LGy | VF | | | | |
| | 60.0 | 8 | | | | SS | Tn | VF | | | | |
| 60.0 | 64.0 | 4 | | | | St | Gy | | | | | T/Fuson |
| | 90.0 | 26 | | | | Sh | Gy | | | | | |
| | 102.0 | 12 | | | | Sh | Gy | Sty | | | | |
| | 114.0 | 12 | | | | St | LGy-Gy | | | | | |
| | 132.0 | 18 | | | | SS | LGy-Gy | VF-Sty | | | | Damp |
| | 142.0 | 10 | | | | St | LGy | Sdy | | | | |
| | 144.0 | 2 | | | | St | Gy | | | | | |
| | 154.0 | 10 | | | | Sh | LGy-DGy | | | | | |
| | 172.0 | 18 | | | | St | LGy | | | Tr | | |
| 172.0 | 184.0 | 12 | | | | SS | LGy | VF | | Tr | | T/Lakota |
| | 190.0 | 6 | | | | SS | LGy-Gy | F-C | S-Pyr | A | | |
| | 204.0 | 14 | | | | SS | Gy | F-VC | Tr Pyr | | | Congl. |
| | 206.0 | 2 | | | | SS | LGy-Gy | F-M | | | Tr Gy | |
| | 220.0 | 14 | | | | SS | LGy-Tn | F | Tr Pyr | | | |
| | 225.0 | 5 | | | | SS | LTn-Pk | F | | | | |
| | | | | | | | | | | | | Probed to 224.8' |

| SAMPLE Base | Thick | LAB ASSAY (%) $U_3O_8$* | $V_2O_5$ | $CaCO_3$ | SAMPLE Base | Thick | LAB ASSAY (%) $U_3O_8$* | $V_2O_5$ | $CaCO_3$ | INTERVAL Base | Thick | γ-RAY % $cU_3O_8$ | INTERVAL Base | Thick | γ-RAY % $cU_3O_8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | 187.5' | 1.0 | 0.04 |

* Assays marked "e" are from lab gamma-ray readings




Rev.
Ed

Hole No. 39

COLORADO PRINTING CO.

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

Administrative Audit Difference Statement

[redacted]

Date: [redacted]
Payee's Reference: [redacted]
Idm E-1178

[redacted]

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

| | | |
|---|---|---|
| Amount Claimed | $ | [redacted] |
| Difference | $ | [redacted] |
| Amount Approved | $ | [redacted] |

The reason for the difference was due to:

[redacted]

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

Very sincerely yours,

RRa

[redacted]
Audit Section

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

OFFICIAL FILE COPY
O. M. E.
RECEIVED OCT 13 1958

| DATE | INITIALS | CODE |
|---|---|---|
| 10/13 | C | 220 |
| " | | 110 |
| | | 700 |

FINAL DISTRIBUTION
MADE OCT 10 1958

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

Administrative Audit Difference Statement

Balboa Mining & Development Co.
Post Office Box 861
Grand Junction, Colorado

Date: October 10, 1958
Payee's Reference: August 1958

DMEA-4889

Gentlemen:

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

| | | |
|---|---|---|
| Amount Claimed | $ | 1,152.57 |
| Difference | $ | 2.00 |
| Amount Approved | $ | 1,150.57 |

The reason for the difference was due to:

Hole No. 21 drilled 12 feet into Morrison formation. Contract allows a maximum of 10 feet; therefore, disallowance is made for cost of 2 feet non-core drilling @ $0.76 per foot plus incidental allowance of $0.24 per foot.

Withheld $250.00.

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

Very sincerely yours,

N. E. Stebbens
Auditor

Randel R. Cooper
Authorized Certifying Officer

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

224 New Customhouse
Denver 2, Colorado
October 7, 1958

Memorandum

To: T. A. Christensen

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

Subject: Docket No. DMEA 4883 (Uranium) Contract Idm-R1178, Balboa Mining and Development Co., (Layman property, Thoorridge) Crook County, Wyoming - Operator's Monthly Progress Report for the month of August, 1958

Enclosed are the original and four copies each of Forms MP-104 and MP-104A, Operator's Narrative Report, and Engineer's Report for the above period.

The work is being performed partly under independent subcontract, and partly at fixed unit costs. The drilling rates are as low or lower than the rates contained in the lowest and best bid submitted with the application. Under the circumstances, the rates for the work performed under independent subcontract are considered to be reasonable.

Except as otherwise indicated below, we consider that the Operator has complied with the intent of the contract, and the work for which payment is recommended is acceptable to the Government. Payment is recommended on the following basis contingent on your verification of the correctness of applicable rates and arithmetical accuracy of computations.

<u>Disallowance, Drilling & Incidental Allowance</u>

Review of the lithologic logs submitted by the Operator reveals that hole No. 21 was drilled 12 feet into the Morrison formation. The contract allows a maximum penetration of 10 feet into the Morrison formation, therefore, the reported cost, including Incidental Allowance for 2 feet of excess drilling is to be disallowed, as follows:

Disallow, reported cost for 2 feet non-core drilling, at $0.76 per foot ---------- $ 1.52

Disallow, reported cost of Incidental Allowance for 2 feet of drilling, at $0.24 per foot ---------- $ 0.48

Total amount to be disallowed ---------- $ 2.00

Withhold an amount of $850.00 pending possible additional work under the contract. If additional work is not approved by the Government, the amount of $500.00 shall continue to be withheld pending resolution of matters prerequisite to closing the account. Work under Stage I is completed.

Reconciliation With Amount Reported by the Operator on Form MF-104 for August, 1958

| | |
|---|---|
| Amount reported on Form MF-104 for August, 1958 ---------- | $1152.57 |
| Amount to be disallowed ---------- | 2.00 |
| Acceptable cost for August, 1958 ---------- | $1150.57 |
| Government participation at 50 percent ---------- | $ 575.29 |
| Amount to be withheld ---------- | 850.00 |
| Balance due the Operator ---------- | $ 325.29 |

Remarks:

Date of Report ---------- September 11, 1958
Date Received in Field Office ---------- September 15, 1958
Date Received in Region Office ---------- September 22, 1958

Original signed by
E. N. HARSHMAN
E. N. Harshman

Enclosures

JBC:hmh

cc: Chmn. Op. Comm. (2)
Binyon, OGK/SPC
MF-104 file, Reg. III
Harshman } w/copy of
Cooper } Engr's Report
Charon

REGION III

Building 20
Bureau of Mines
Denver Federal Center
Denver 2, Colorado
September 19, 1958

OME, Reg. 3
SEP 22 1958

To: Executive Officer, OME

From: E. O. Binyon

Subject: Docket No. DMEA 4889 (Uranium), Contract Xin-X1178
Halpeon Mining and Development Co., (Layman Property, Thermopolis)
Crook County, Wyoming -- Progress report for August 1958.

An inspection of the work completed during the subject period was made August 5, 1958. Albert F. Steick, geologist for the company, was at the property and one drill was in operation at the time of the inspection.

The four holes with a total aggregate depth of 1116 feet and an average depth of 279 feet per hole were located as shown on the operators map and the depths were as reported. None of the holes encountered ore grade mineralization. However in 3 of the holes--No. 19, 20, and 21--one-half foot to 1.5 feet of mineralized material (.03 to .04 percent $eU_3O_8$) was encountered at depths ranging from 170 to 279.0 feet.

| Hole No. | Depth | Depth of Mineralization | $eU_3O_8$ |
|---|---|---|---|
| 19 | 282 | 272.5 - 274 | 0.03 |
| | | 278 - 279 | 0.04 |
| 20 | 272 | 241.5 - 242 | TR. |
| 21 | 282 | 169.5 - 170 | 0.03 |

These 4 holes complete the drilling under Stage I. A geiger counter check of the cuttings indicated slightly less than probe readings above.

A check of the MF-104 and 104A forms found them to be correct and the amounts claimed for drilling and analyses are properly documented.

It is recommended that the operator be paid $576.28 or the Government's share at 50 percent of $1152.57 the amount claimed.

Since it is doubtful that any Stage II drilling will be approved it is suggested that $900 be withheld pending approval of some Stage II drilling or receipt of a final report.

One copy of the map and the logs have been retained in this office.

The contract expires December 1, 1958

E. O. Binyon
E. O. Binyon
Mining Engineer

EOB:ga
cc: 6
IIM-E
Caron

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

Budget Bureau No. 42-R1036.5

DMEA
SEP 12 1958
...ON III
...VER, COLORADO

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

Month of August, 1958 Docket No. DMEA 4889 Contract No. Idm-E1178
Operator's Name Balboa Mining and Development Company Minerals Uranium
Address P. O. Box 861, Grand Junction, Colorado
Contract Amount, $ 26,194.00 Government Participation: 50 % Amount, $ 13,097.00

| 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-term~~ Contracts: | 848.16 | 3,039.47 | 3,887.63 | | | |
| Drilling | | | | | | |
| Bulldozing | | | | | | |
| Crosscutting | | | | | | |
| Drifting | | | | | | |
| Fixed unit costs | 267.84 | 959.83 | 1,227.67 | | | |
| (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 | 36.57 | 46.55 | 83.12 | | | |
| Payroll Taxes | | | | | | |
| Liability Insurance | | | | | | |
| (8) Contingencies (specify): | | | | | | |
| TOTALS | 1,152.57 | 4,045.85 | 5,198.42 | 115.027 | ~~4045.85~~ 3989.85 | ~~5196.42~~ 5140.42 |
| | | | | 1/ 56.00 | 56.00 | |

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

Date Sept. 11, 1958 *Payee BALBOA MINING & DEVELOPMENT CO.

Per Mame Edson Title Secretary-Treasurer

*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)

1/ Previous disallowance

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of $ 325.28 XX

Signature RCO
(Authorized Certifying Officer)

Date 10/10/58 Vou. No. DMEA-59-48
(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 E1178 in accordance with the terms of the contract.

Signature E. O'Donnyon (#576.28) Title Mining Engineer Date Sept. 19, 1958

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature E. McKenna Gman Title acting Executive Officer Date OCT 7 1958

# 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.

Form MF-104A
(April 1962)

Budget Bureau No. 42-R1151.2

DMEA
DEPARTMENT OF THE INTERIOR
SEP 12 1958
REGION III
DENVER, COLORADO

# UNITED STATES
# DEPARTMENT OF THE INTERIOR

## DEFENSE MINERALS EXPLORATION ADMINISTRATION

# OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of August 1958 Docket No. DMEA 4889 Contract No. Idm-E1178

Operator's Name Balboa Mining & Development Company Minerals Uranium

Address P. O. Box 861, Grand Junction, Colorado

| 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 |
|---|---|---|---|---|---|---|---|---|
| Rotary Non-Core drill | ft. | 848.16 | 1116.0 | 3887.63 | 5115.3 | 0.76 | 4980 | 2.25 |
| Drifting Standby | hr. | 0.00 | 0 | 0.00 | 0 | --- | 10.5 | 14.00 |
| Crosscutting Chem Analyses | spl. | 36.57 | 11 | 83.12 | 25 | | 105 | 5.00 |
| Raising Incid. Allow. | ft. | 267.84 | 1116.0 | 1227.67 | 5115.3 | 0.24 | 4980 | 0.24 |
| Shafts | | | | | | | | |
| Winzes | | | | STAGE II | | | | |
| Rotary Non-core drill | ft. | | | | | | 5000 | 2.25 |
| Churn | | | | | | | | |
| Standby | hr. | | | | | | 10.5 | 14.00 |
| Auger Chem Analyses | spl. | | | | | | 105 | 5.00 |
| Stripping Incid. Allow. | ft. | | | | | | 5000 | 0.24 |
| Trenching | | | | | | | | |
| Test Pits | | | | | | | | |
| Roads and Trails | | | | | | | | |
| Total Distributed Costs | | 1152.57 | | 5198.42 | | | | Total Costs Authorized by Contract |
| Operating Equipment Purchased | | None | | | | | | |
| Initial Rehabilitation and Repairs | | " | | | | | | |
| New Buildings, Improvements, etc. | | " | | | | | | |
| Total Costs | | 1152.57 | | 5198.42 | | | | |

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 September 11, 1958 Operator Balboa Mining & Development Co.

Per James Edson Jr. Title Secretary-Treasurer

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.

REMARKS:

(Instructions on reverse)

(For Government use only)

E C Bryson

## 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

Balboa Mining and Development Company
Post Office Box 861
Grand Junction, Colorado

September 9, 1958

DMEA
DEPARTMENT OF THE INTERIOR
SEP 12 1958
REGION III
DENVER, COLORADO

Progress Report, August, 1958
Docket No. DMEA 4889 (Uranium)
Contract No. Idm-E1178
Laymon Property
Crook County, Wyoming

**DRILLING PROGRESS:**

A total of 1116.0 feet was drilled during the August reporting period with the first five days of the period entirely devoted to drilling. Holes No. 18 through 21 were completed and this finished the Phase I of the DMEA Contract. Total footage drilled on all 21 holes was 5115.3 feet.

**GEOLOGY AND MINERALIZATION:**

Hole No. 18 was barren. Hole No. 19 probed some 0.02-0.03% $U_3O_8$ from 272.5-274.0 and a little mineralization at or near the contact with the underlying Morrison. Hole No. 20 showed a slight increase in count at 242.0 feet which was in a dark gray mudstone unit but count and thickness was not significant. Hole No. 21 showed slight increase in count at 170.0 and again at 272.0-272.5 feet. The count at 170.0 is 0.03% $U_3O_8$ at best and is in the upper Lakota sandstone unit. There was a little orange staining in this unit at the interval 170.0-176.0 feet. The slight count at 272.0-272.5 feet lies near the Lakota-Morrison contact and seems to be a common occurrence in this area, but apparently it has no relationship to orebodies in this district.

Lithologic logs, probe, and progress map are enclosed.

Respectfully submitted,

BALBOA MINING AND DEVELOPMENT COMPANY

By Albert F. Stoick ms
Albert F. Stoick
Mining Engineer

AFS:ep

Enclosure

# MINCON

P. O. BOX 270

GRAND JUNCTION, COLORADO

## GEOLOGIC AND ASSAY LOG

Drill-hole No. 18 (.....)
Total depth 280.0
Collar elev. 4374.5 T ..... P
Area Balboa - Thorn Ridge-Laymon

Map coord (T) DMEA # 4889
Map coord (P) .....
Sec. 27 T. 52 N R. 66 W
Co., State Crook County, Wyoming

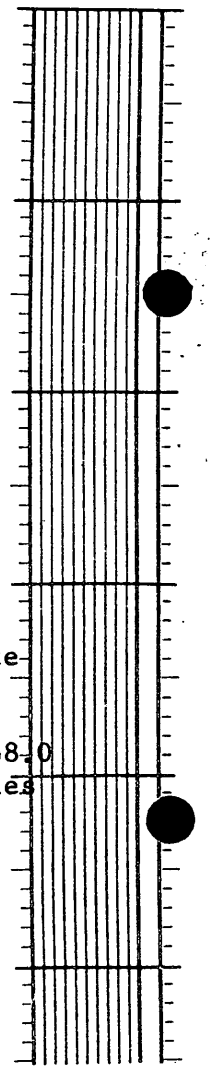
Claim Laymon Lease
Date completed August 1, 1958
Date logged August 2, 1958
Logged by Stoick

Summary of log Barren ; OBSS 170.0-180.0 thick 10.0 ; SS color Lt Gy-Gy ; MS ..... ; Cbn Little
254.0-273.0 19.0 Bn-Gy None

| FOOTAGE Top | Base | Thick | CORE REC | FIELD EST $U_3O_8$ | $V_2O_5$ | DESCRIPTION Rock | Color | Grain | Access mins | Cbn | M S in S S | Other remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 2.0 | 2.0 | Plug | | | Soil | Tan-Bn | | | | | Dakota |
| | 8.0 | 6.0 | | | | Sdy Sh | Tan Bn | | | | | |
| | 28.0 | 20.0 | | | | SS | Lt Tan-Bn | VF | Fe, Sel | S | | Fe stns, sel @ base. |
| | 52.0 | 24.0 | | | | SS | LtGy-Gy | VF | Fe | S | | Few Fe stns. |
| 52.0 | 58.0 | 6.0 | | | | St | Lt Gy | | | S | | Hard top Fuson. |
| | 94.0 | 36.0 | | | | Sh | Gy-DkGy | | | | | Sty in part. |
| | 106.0 | 12.0 | | | | St | LtGy-Gy | | | | | |
| | 108.0 | 2.0 | | | | SS | Lt Gy | VF | S pry | S | | |
| | 118.0 | 10.0 | | | | St | Gy-DkGy | | | S | | |
| | 128.0 | 10.0 | | | | Sdy St | LtGy-Gy | | | | | Damp |
| | 144.0 | 16.0 | | | | St | Gy-DkGy | | | S | | |
| | 152.0 | 8.0 | | | | Sh-St | LtGy-Gy | | | | | Shale and silt |
| | 170.0 | 18.0 | | | | St | LtGy | | S Pyr | | | Pyrite @ 154-158 |
| 170.0 | 180.0 | 10.0 | | | | SS | LtGy-Gy | VF | S Pry | S | | Top Lakota |
| | 182.0 | 2.0 | | | | MS | Gy | Sty | | | | |
| | 192.0 | 10.0 | | | | ST | LtGy-Gy | Sdy | | | | |
| | 226.0 | 34.0 | | | | SS | LtGy-Wh | VF | | | | Sty in part, mostly white |
| | 248.0 | 22.0 | | | | Sdy St | LtGy-Gy | VF | | | | |
| | 254.0 | 6.0 | | | | SS | LtGy | VF | | | | |
| | 273.0 | 19.0 | | | | SS | Bn-Gy | F-M-Cgl | | | | Drilled w/water after 268.0 |
| 273.0 | 280.0 | 7.0 | | | | MS | Bk-Gy | | | | | Top Morrison, poor samples after 268.0, sand and congl seems to keep washing in. |

| SAMPLE Base | Thick | LAB ASSAY (%) $U_3O_8$* | $V_2O_5$ | $CaCO_3$ | SAMPLE Base | Thick | LAB ASSAY (%) $U_3O_8$* | $V_2O_5$ | $CaCO_3$ | INTERVAL Base | Thick | y-RAY % $eU_3O_8$ | INTERVAL Base | Thick | y-RAY % $eU_3O_8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | BARREN | | |

y-Ray Log




Rev. .....
Ed .....

Hole No. 18

* Assays marked "e" are from lab gamma-ray readings

COLORADO PRINTING CO.

# MINCON

**GEOLOGIC AND ASSAY LOG** — P. O. BOX 270 — GRAND JUNCTION, COLORADO

Drill-hole No. 19 (.....)
Total depth 282.0
Collar elev. 4374.6 T..... P.....
Area Balboa-Thorn Ridge-Laymon

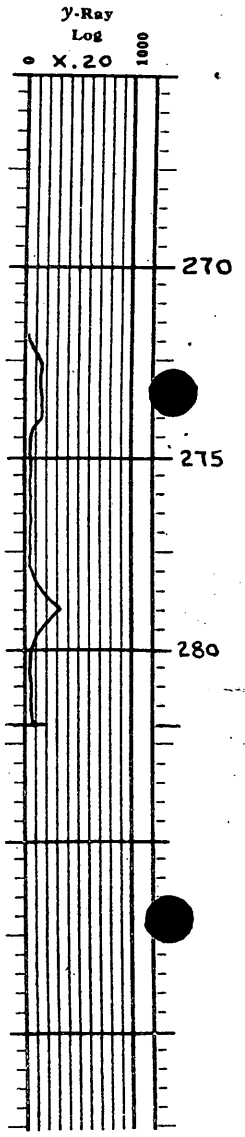
Map coord (T) DMEA # 4889
Map coord (P).....
Sec. 27 T. 52 N R. 66W
Co., State Crook County, Wyoming

Claim Laymon Lease
Date completed August 2, 1958
Date logged August 3, 1958
Logged by Stoick

Summary of log Mineralized ; OBSS 166.0-182.0 thick 16.0 ; SS color Lt Gy-Gy ; MS N ; Cbn S
254.0-278.0 24.0

| FOOTAGE Top | Base | Thick | CORE REC | FIELD EST $U_3O_8$ | $V_2O_5$ | DESCRIPTION Rock | Color | Grain | Access mins | Cbn | M S in S S | Other remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 2.0 | 2.0 | Plug | | | Soil | Bn | | | | | Dakota |
| | 8.0 | 6.0 | | | | Sh-Sdy | Tan-Bn | Sdy | | | | |
| | 12.0 | 4.0 | | | | St | Lt Gy | Sdy | | | | |
| | 26.0 | 14.0 | | | | SS | Lt Tan | VF | | S | | Little Bn Ss |
| | 28.0 | 2.0 | | | | Sh | Gy | | | | | |
| | 50.0 | 22.0 | | | | SS | LtGy-Gy | VF | | | | |
| | 58.0 | 8.0 | | | | SS | Lt Tan-Bn | VF | | S | | |
| 58.0 | 76.0 | 18.0 | | | | St | Gy | | | | | Top Fuson, some shale |
| | 82.0 | 6.0 | | | | Sh | Gy-LtGy | Sty | | | | Sty in part |
| | 94.0 | 12.0 | | | | Sh | Gy | | S Pyr. | | | |
| | 104.0 | 10.0 | | | | St | LtGy-Gy | | | | | |
| | 106.0 | 2.0 | | | | SS | LtGy | VF | S Pyr. | S | | |
| | 120.0 | 14.0 | | | | St | Gy | | | | | Damp |
| | 132.0 | 12.0 | | | | SdySt | LtGy-Gy | | | | | Damp |
| | 146.0 | 14.0 | | | | St | LtGy-Gy | | S Pyr. | | | Damp little Py @ base. |
| | 150.0 | 4.0 | | | | Sh | LtGy-Gy | Sty | S Pyr | | | Damp |
| | 166.0 | 16.0 | | | | St | LtGy-Gy | Sdy | S Pyr | S | | Little Lt Gy Sh 152-154 |
| 166.0 | 182.0 | 16.0 | | | | SS | LtGy-Gy | VF-F | Pyrite | S | | Top Lakota |
| | 186.0 | 4.0 | | | | MS | Lt Gy | | Pyrite | S | | Sty in part |
| | 210.0 | 24.0 | | | | SS | Wh-LtGy | VF | S Pyr | | | Sty in part |
| | 216.0 | 6.0 | | | | MS | Lt Gy | | | | | |
| | 242.0 | 26.0 | | | | SdySt | Lt Gy | VF | S Pyr | | | |
| | 254.0 | 12.0 | | | | SS | Lt Tan | VF-F-M | | | | Alt Spar ? |
| 254.0 | 278.0 | 24.0 | | | | SS | Gy-Tan | M-Cgl | S Pyr | | | To water @ 262.0 poor samples |
| 278.0 | 282.0 | 4.0 | | | | MS | Gy-Gn | | S Pyr | | | Top Morrison |

| SAMPLE Base | Thick | LAB ASSAY (%) $U_3O_8$* | $V_2O_5$ | $CaCO_3$ | SAMPLE Base | Thick | LAB ASSAY (%) $U_3O_8$* | $V_2O_5$ | $CaCO_3$ | INTERVAL Base | Thick | γ-RAY % e$U_3O_8$ | INTERVAL Base | Thick | γ-RAY % e$U_3O_8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | 274.0 | 1.5 | 0.03 |
| | | | | | | | | | | | | | 279.0 | 1.0 | 0.04 |




Rev.
Ed.

Hole No. 19

* Assays marked "e" are from lab gamma-ray readings

COLORADO PRINTING CO.

# MINCON

P. O. BOX 270 — GRAND JUNCTION, COLORADO

## GEOLOGIC AND ASSAY LOG

Drill-hole No. 20 ( )
Total depth 272.0
Collar elev. 4374.1 T. P
Area Balboa-Thorn Ridge-Laymon

Map coord (T) DMEA # 4889
Map coord (P)
Sec. 27 T. 52 N R. 66 W
Co., State Crook County, Wyoming

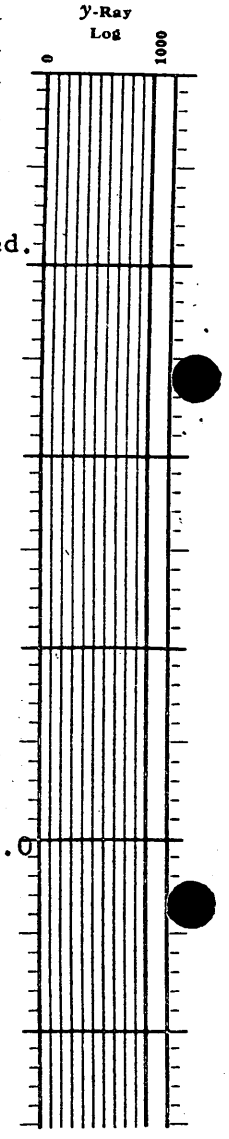
Claim Laymon Lease
Date completed August 3, 1958
Date logged August 3, 1958
Logged by Stoick

Summary of log Semi-favorable ; OBSS 164.0-184.0 thick 20.0 ; SS color Lt Gy-Gy ; MS N ; Cbn Little
244.0-262.0 18.0 Gy-Bn

| FOOTAGE Top | FOOTAGE Base | FOOTAGE Thick | CORE REC | FIELD EST $U_3O_8$ | FIELD EST $V_2O_5$ | DESCRIPTION Rock | Color | Grain | Access mins | Cbn | MS in SS | Other remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 2.0 | 2.0 | Plug | | | Soil | Tan | VF | | | | Sandy, Dakota |
| | 12.0 | 10.0 | | | | SS-Sh | Tan | VF | | Abn | | Sand & Shale interbedded. |
| | 26.0 | 14.0 | | | | SS | Tan-Bn | VF | | S | | Little Gy shale |
| | 50.0 | 24.0 | | | | SS | Lt Gy | VF | | Tr | | |
| | 56.0 | 6.0 | | | | SS | LtGy-Tan | VF | | | | |
| 56.0 | 64.0 | 8.0 | | | | ST | Gy | | | | | Top Fuson. |
| | 92.0 | 28.0 | | | | Sh | Gy | | | | | Sty from 74.0-80.0 |
| | 102.0 | 10.0 | | | | ST | Gy | | | | | |
| | 104.0 | 2.0 | | | | SS | Lt Gy | VF | | S | | |
| | 140.0 | 36.0 | | | | ST | LtGy-Gy | | | S | | Sdy in part |
| | 144.0 | 4.0 | | | | Sh | Lt Gy | | | | | |
| | 148.0 | 4.0 | | | | SS | Lt Gy | VF-Sty | S Pyr | S | | |
| | 164.0 | 14.0 | | | | ST | LtGy-Gy | | S Pyr | | | |
| 164.0 | 184.0 | 20.0 | | | | SS | LtGy-Gy | VF | Tr Pyr | S | | Top Lakota, carbon near bottom |
| | 196.0 | 12.0 | | | | ST | Lt Gy | Sdy | | | | |
| | 212.0 | 16.0 | | | | SS | Lt Gy | Sty-VF | Tr Pyr | | | |
| | 218.0 | 6.0 | | | | MS | Lt Gy | | | | | |
| | 234.0 | 16.0 | | | | ST | Lt Gy | | | | | Sdy in part |
| | 244.0 | 10.0 | | | | MS | DkGy | | | | | |
| 244.0 | 262.0 | 18.0 | | | | SS | Gy-Bn | F-M-C-Cgl | S Pyr | | | To water drilling @ 248.0 |
| 262.0 | 272.0 | 10.0 | | | | MS | Gy-Gn,Bk | | | | | Top Morrison, little SS washing up w/Mds. |

| SAMPLE Base | SAMPLE Thick | LAB ASSAY (%) $U_3O_8$* | $V_2O_5$ | $CaCO_3$ | SAMPLE Base | SAMPLE Thick | LAB ASSAY (%) $U_3O_8$* | $V_2O_5$ | $CaCO_3$ | INTERVAL Base | INTERVAL Thick | γ-RAY % $eU_3O_8$ | INTERVAL Base | INTERVAL Thick | γ-RAY % $eU_3O_8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | 242.0 | 0.5 | Tr |

γ-Ray Log




Rev.
Ed.

Hole No. 20

* Assays marked "e" are from lab gamma-ray readings

COLORADO PRINTING CO.

# MINCON

**GEOLOGIC AND ASSAY LOG** — P. O. BOX 270 — GRAND JUNCTION, COLORADO

Drill-hole No. 21 ( )
Total depth 282.0
Collar elev. 4379.3 T. P
Area Balboa-Thorn Ridge-Laymon

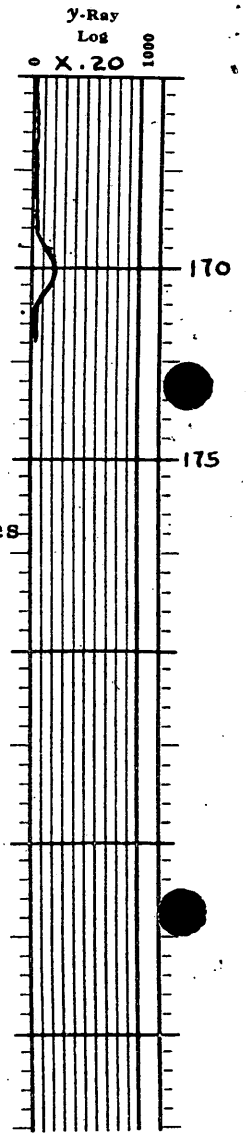
Map coord (T) DMEA # 4889
Map coord (P)
Sec. 27 T. 52 N R. 66 W
Co., State Crook County, Wyoming

Claim Laymon Lease
Date completed August 5, 1958
Date logged August 5, 1958
Logged by Stoick

Summary of log Favorable ; obss 160.0-182.0 thick 22.0 ; SS color LtGy ; MS N ; Cbn N
248.0-270.0 22.0 Bn-Gy

| FOOTAGE Top | Base | Thick | CORE REC | FIELD EST $U_3O_8$ | $V_2O_5$ | DESCRIPTION Rock | Color | Grain | Access mins | Cbn | M S in S S | Other remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 4.0 | 4.0 | Plug | | | Soil | Tan | Sdy | | | | Sandy, Dakota |
| | 14.0 | 10.0 | | | | SS-Sh | Tan-Bn,Gy | VF-Sdy | | S | | SS and Sh mixed |
| | 30.0 | 16.0 | | | | SS | Tan-DkBn | VF- | | S | | Damp |
| | 48.0 | 18.0 | | | | SS | Lt Gy | VF | | S | | Damp, to water drilling @ 42.0 |
| | 58.0 | 10.0 | | | | SS | Lt Tan-Bn | VF | | | | |
| 58.0 | 64.0 | 6.0 | | | | ST | Gy | | | | | Top Fuson |
| | 100.0 | 36.0 | | | | SH | Gy-LtGy | | | | | Sty in part |
| | 104.0 | 4.0 | | | | ST | Gy | | | | | |
| | 108.0 | 4.0 | | | | Sdy St | Gy | | | | | |
| | 140.0 | 32.0 | | | | ST | Gy | | | | | Sdy in part, poor samples |
| | 144.0 | 4.0 | | | | SH | Gy | | | | | |
| | 160.0 | 16.0 | | | | ST | Gy | | | | | Some SH intermixed |
| 160.0 | 182.0 | 22.0 | | | | SS | Lt Gy | VF | S Pyr | | | Top Lakota, few orange stns 170.0-176.0 |
| | 202.0 | 20.0 | | | | Sdy St | LtGy-Wh | VF | | | | |
| | 216.0 | 14.0 | | | | SS | Lt Gy | VF | | S | | Sty in part |
| | 222.0 | 6.0 | | | | StyMs | LtGy | | | | | |
| | 240.0 | 18.0 | | | | SS-St | LtGy | VF | | | | Sty |
| | 248.0 | 8.0 | | | | MS | DkGy | | | | | |
| 248.0 | 270.0 | 22.0 | | | | SS | Bn-Gy | F-M-Cgl | S Pyr | | | |
| 270.0 | 282.0 | 12.0 | | | | MS | Bk-Gy | | Pyrite | | | Top Morrison, some Bn clay. |

| SAMPLE Base | Thick | LAB ASSAY (%) $U_3O_8$* | $V_2O_5$ | $CaCO_3$ | SAMPLE Base | Thick | LAB ASSAY (%) $U_3O_8$* | $V_2O_5$ | $CaCO_3$ | INTERVAL Base | Thick | γ-RAY % $cU_3O_8$ | INTERVAL Base | Thick | γ-RAY % $cU_3O_8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | 170.0 | 0.5 | 0.03 |




Rev.
Ed.

Hole No. 21

* Assays marked "c" are from lab gamma-ray readings

COLORADO PRINTING CO.

FINAL DISTRIBUTION

MADE SEP 26 1958

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

Administrative Audit Difference Statement

OFFICIAL FILE COPY
DMEA
RECEIVED SEP 29 1958

| DATE | INITIALS | CODE |
|---|---|---|
| 9/29 | C | 220 |
| " | [illegible] | 110 |
| " | [illegible] | 700 |

Balboa Mining & Development Co.
Post Office Box 861
Grand Junction, Colorado

Date: September 25, 1958

Payee's Reference: July 1958

DMEA-4889

Gentlemen:

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

| | | |
|---|---|---|
| Amount Claimed | $ | 2,744.00 |
| Difference | $ | 56.00 |
| Amount Approved | $ | 2,688.00 |

The reason for the difference was due to:

Disallowance -- Excess Non-core Drilling

Several of the holes completed during July 1958, were drilled in excess of the contract provision which states that Stage I holes Nos. 3 through 14 shall not penetrate more than 10 feet into the gray to blue-gray mudstone which lies between the upper and lower potential uranium-bearing sandstone beds of the Lakota formation.
All drilling in holes 6 and 9 is administratively determined to be allowable due to difficulty of establishing the bottom contact of the upper sandstone unit, Lakota formation. Excess drilling in the following holes is to be disallowed as recommended by geologist.

(CONTINUED ON THE ATTACHED SHEET)

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

Very sincerely yours,

N. E. Stokes
Audit Section

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

Balboa Mining & Development Co.

| Hole No. | Operator's depth to bottom of CORE | Depth drilled | Disallowance feet |
|---|---|---|---|
| 7 | 204 feet | 238 feet | 24 feet |
| 8 | 212 " | 230 " | 8 " |
| 10 | 188 " | 202 " | 4 " |
| 12 | 178 " | 190 " | 2 " |
| 13 | 182 " | 200 " | 8 " |
| 14 | 180 " | 200 " | 10 " |
| | | Total | 56 feet |

Disallowed the reported costs, including Incidental Allowance for 56 feet of excess non-core drilling ----------$56.00

224 New Customhouse
Denver 2, Colorado

Sept. 24, 1958

Memorandum

To: T. A. Christensen

From: Office of Minerals Exploration, Region III

Subject: Docket DMEA 4889 (Uranium) Contract Ide-E1178,
Balboa Mining and Development Company, (Layman property)
Crook County, Wyoming - Operator's Monthly Progress
Report for the month of July, 1958

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

Also enclosed are the original and four copies of a memorandum dated September 18, 1958, from E. N. Burchman, Geologist, Geological Survey, which contains remarks for disallowance of excess footage drilled in six of the reported drill holes.

The work is being performed partly under independent subcontract, and partly at fixed unit costs. The drilling rates are as low or lower than the rates contained in the lowest and best bid submitted with the application. Under the circumstances, the rates for the work performed under independent subcontract are considered to be reasonable.

Except as otherwise indicated below, we consider that the Operator has complied with the intent of the contract, and the work for which payment is recommended is acceptable to the Government. Payment is recommended for 50 percent of the amount reported on Form MF-104 for July, 1958, contingent on your verification of the correctness of applicable rates and arithmetical accuracy of computations.

<u>Disallowance - Excess Non-core Drilling</u>

Several of the holes completed during July 1958, were drilled in excess of the contract provision which states that Stage I holes Nos. 3 through 14 shall not penetrate more than 10 feet into the gray to blue-gray mudstone which lies between the upper and lower potential uranium-bearing sandstone beds of the Lakota formation.

All drilling in holes 6 and 9 is administratively determined to be allowable due to difficulty of establishing the bottom contact of the upper sandstone with, Lakota formation. Excess drilling in the following holes is to be disallowed as recommended by geologist.

| Hole No. | Operator's depth to bottom of GRSS | Depth drilled | Disallowance feet |
|---|---|---|---|
| 7 | 264 feet | 298 feet | 24 feet |
| 8 | 212 " | 230 " | 8 " |
| 10 | 186 " | 202 " | 4 " |
| 12 | 178 " | 190 " | 2 " |
| 13 | 182 " | 220 " | 8 " |
| 14 | 180 " | 208 " | 10 " |
| Total | | | 56 feet. |

Disallow the reported costs, including Incidental Allowance for 56 feet of excess non-core drilling ---------- $ 56.00

Reconciliation with Amount Reported by the Operator on Form NF-104 for the month of July, 1958

| | |
|---|---|
| Amount reported on Form NF-104 for July, 1958 | $2744.00 |
| Amount to be disallowed | 56.00 |
| Acceptable cost for July, 1958 | $2688.00 |
| Government participation at 50 percent | $1344.00 |

Remarks:

Date of Report ---------- August 14, 1958
Date Received in Field Office ---------- September 3, 1958
Date Received in Region Office ---------- September 12, 1958

Original signed by
E. N. HARSHMAN

E. N. Harshman
Acting Executive Officer

Enclosures
NF:lmh
cc: Chem. Op. Comm. (2)
Rinyon, GRS/NFO
NF-104 file, Reg. III
Harshman } w/copy of
Conyer } Engr's Report
Chron

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DMEA
DEPARTMENT OF THE INTERIOR
SEP 19 1958
REGION III
DENVER, COLORADO

Denver Federal Center
Denver, Colorado

September 18, 1958

Memorandum

To: Acting Executive Officer, OME, Region III

From: E. N. Harshman

Subject: DMEA Docket 4889 (Uranium), Contract Idm-E 1178, Balboa Mining and Development Company (Laymon Property), Crook County, Wyoming

As requested in your memorandum of September 15, 1958, I have reviewed the operator's July 1958 progress report and the engineer's narrative report in order to determine conformance of the drilling with contract specifications.

You will note at the top of each log a summary which includes a heading OBSS. In each case I concur with the operator's determinations of the depths to the top and bottom of the ore-bearing sandstone which corresponds to the upper sandstone unit of the Lakota formation referred to in the contract.

The contract states that Stage I Holes Nos. 3 through 14 "shall not penetrate more than 10 feet into the gray to blue gray mudstone which lies between the upper and lower potential uranium-bearing sandstone beds of the Lakota formation", and that Holes Nos. 1, 2, and 15 through 21 "shall not penetrate more than 10 feet into the underlying Morrison formation". On the basis of these depth limitations and the depths of

the contacts as determined by the operator and shown on the logs, disallowances could be made as follows:

| Hole No. | Operator's depth to bottom of GRGS | Depth drilled | Disallowance |
|---|---|---|---|
| * 6 | 212 feet | 242 feet | 30 feet * |
| 7 | 204 " | 238 " | 34 " |
| 8 | 212 " | 230 " | 8 " |
| * 9 | 186 " | 208 " | 10 " * |
| 10 | 188 " | 202 " | 4 " |
| 11 | 198 " | 202 " | --- |
| 12 | 178 " | 190 " | 2 " |
| 13 | 182 " | 200 " | 8 " |
| 14 | 180 " | 200 " | 10 " |

| Hole No. | Operator's depth to Morrison | Depth drilled | Disallowance |
|---|---|---|---|
| 15 | 269 | 272 | --- |
| 16 | 272 | 280 | --- |
| 17 | 270 | 280 | --- |

* no disallowance recommended.

Although the disallowances tabulated above can be supported by the operator's logs I question the propriety of a 30-foot disallowance in Hole No. 6 and a 10-foot disallowance in Hole No. 9. In Hole No. 30 the upper sandstone is underlain by 22 feet of interbedded sandstone and

sandstone, and at the time the hole was being drilled determination of the bottom of the upper sandstone unit was extremely difficult. In Hole No. 9 the upper sandstone is underlain by 16 feet of sandy siltstone and sandstone and similarly this contact may have been difficult to recognize.

In summary I recommend that Holes Nos. 6, 9, 11, 13, 16, 17 be approved for payment as drilled and that Shallowances for Holes Nos. 7, 8, 10, 12, 13, and 14 be made as shown in the above tabulation.

Original signed by
E. N. HARSHMAN

E. N. Harshman
Geologist

ENHarshman:mp

REGION III

DMEA
DEPARTMENT OF THE INTERIOR

SEP 12 1958
REGION III
DENVER, COLORADO

Building 20
Denver Federal Center
Denver 2, Colorado
Sept. 11, 1958

Memorandum

To: Alternate Acting Executive Officer, DMEA Field Team, Reg. III

From: R. O. Bingen

Subject: Docket No. DMEA 4089 (Uranium) Contract EDa-K1178, Halbon Mining and Development Co. (Laguna Property) Crook County, Wyoming -- Progress report for July 1958

An inspection was made of the work completed during the subject period on August 5, 1958. Albert F. Stalch, geologist for the company, was on the property, and one drill rig was in operation at the time of the inspection.

Hole locations and depths were checked and were found to be as shown on the operator's map and in the report. Eleven holes with a total footage of 2744 were drilled. A check of the cuttings from all holes was made and the results corresponded to probe results. Only two holes showed ore grade (0.10 percent $eU_3O_8$) or better. In hole 6 at depths 218 to 229 and 224.5 to 225.5 the counter showed about .10% $eU_3O_8$ for the samples. The difference between counter and probe results was caused by the samples being taken wet. Hole 12 had 1 foot of about 0.15% $eU_3O_8$ at depth 170-171 and is the upper Lakota. Hole 15 was drilled to a depth of 272 feet but could be probed to only 195.5 feet. From a check of the cuttings, and information from the company geologist who was present while the hole was being drilled, it is believed that the purpose of the hole was accomplished and that the contract provision pertaining to payment for holes not logged can be waived.

It was noted that in Holes 6 through 12 the operator has drilled some of these holes to varying depths below what might appear to be the correct depth, that is, 10 feet into a mudstone underlying the upper sandstone of the Lakota. In most instances, it is extremely difficult to determine the exact top of the upper Lakota because of the grading of the overlying siltstone into the sandstone. Another factor is that the upper Lakota sandstone locally is intercalated with mudstones or siltstones or both. Also the thickness of the sandstone varies considerably; in the 12 holes drilled the thickness ranged from 16 to about 40 feet or an average thickness of about 25 feet. The bottom of the upper Lakota sandstone is also difficult to determine because of the grading from sands to sand or siltstones, the absence of mudstone locally, and the presence of thin

fragments of mudstone or siltstone which are underlain by sandstone. In hole 6, 1 foot of ore was found at depth 885.5 or 7 feet below a sandstone-mudstone and mudstone-sandstone contact that was underlain by a sandstone. The operator drilled 8 feet below the sandstone into a siltstone.

Based on the foregoing, it is believed that the drilling has been done within reasonable limits of the terms of the contract and therefore, payment for any apparent unsound drilling is justified.

The MF-26A and 10AA forms were checked and found to be correct. Documentation of the drilling is submitted with the report. It is recommended that the operator be paid $1,378.00 or the Government's share of 70 percent of $2,744.00, the total amount claimed.

One copy of the map and logs has been retained in this office. The contract expires Dec. 1, 1958.

E. O. Bunyon
E. O. Bunyon
Mining Engineer

EOB/mr
cc: 6
Min-21178
chron

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

Budget Bureau No. 42-R1036.5

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

Month of July, 1958 Docket No. DMEA 4889 Contract No. Idm-E 1178
Operator's Name Balboa Mining and Development Company Minerals Uranium
Address P. O. Box 861, Grand Junction, Colorado
Contract Amount, $ 26,194.00 Government Participation: 50 % Amount, $ 13,097.00

| 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 ~~Exploration~~ Contracts: | | | | | | |
| Drilling | 2085.44 | 954.03 | 3039.47 | | | |
| Bulldozing | | | | | | |
| Crosscutting | | | | | | |
| Drifting | | | | | | |
| Fixed Unit Costs | 658.56 | 301.27 | 959.83 | | | |
| (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 | none | 46.55 | 46.55 | | | |
| Payroll Taxes | | | | | | |
| Liability Insurance | | | | | | |
| (8) Contingencies (specify): | | | | | | |
| TOTALS | 2744.00 | 1301.85 | 4045.85 | 2,688.00 | 1301.85 | 3987.85 |

DMEA
DEPARTMENT OF THE INTERIOR
AUG 29 1958
REGION III
DENVER, COLORADO

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

Date 8/14/58 *Payee Balboa Mining & Development Company

Per D. James Edson, Jr. Title Secretary-Treasurer

*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:

$ 1344.00

Signature (Authorized Certifying Officer)

Date 9/25/58 Vou. No. DMA 59-41

(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. DME 1178 in accordance with the terms of the contract.

Signature C. Bunyon ($1377.00) Title Mining Engineer Date Sept. 9, 1958

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE Checked for Engineering Allowances MA

Signature [illegible] Title acting Executive Officer Date SEP 24 1958

# 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.

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

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

RECEIVED SEP 29 1958

# OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of July 1958 Docket No. DMEA 4889 Contract No. Idm-E 1178

Operator's Name Balboa Mining and Development Company Minerals Uranium

Address P. O. Box 861, Grand Junction, Colorado

| 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 |
|---|---|---|---|---|---|---|---|---|
| | | | | STAGE I | | | | |
| Rotary, Non-Core drill | Ft. | 2085.44 | 2744.0 | 3039.47 | 3999.3 | 0.76 | 4980 | 2.25 |
| Standby | Hr. | 0.00 | 0 | 0.00 | 0 | --- | 10.5 | 14.00 |
| Chem. Analyses | Spl. | 0.00 | 0 | 46.55 | 14 | 3.325 | 105 | 5.00 |
| Incid. Allow | Ft. | 658.56 | 2744.0 | 959.83 | 3999.3 | 0.24 | 4980 | 0.24 |
| | | | | STAGE II | | | | |
| Rotary, Non-core drill | Ft. | | | | | | 5000 | 2.25 |
| Standby | Hr. | | | | | | 10.5 | 14.00 |
| Chem. Analyses | Spl. | | | | | | 105 | 5.00 |
| Incid. Allow. | Ft. | | | | | | 5000 | 0.24 |
| Test Pits | | | | | | | | |
| Roads and Trails | | | | | | | | |
| TOTAL DISTRIBUTED COSTS | | 2744.00 | | 4045.85 | | | | TOTAL COSTS AUTHORIZED BY CONTRACT |
| Operating Equipment Purchased | | | | | | | | |
| Initial Rehabilitation and Repairs | | | | | | | | |
| New Buildings, Improvements, etc | | | | | | | | |
| TOTAL COSTS | | 2744.00 | | 4045.85 | | | | |

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 August 14, 1958 Operator Balboa Mining & Development Company

Per James Edson Jr. Title Secretary-Treasurer

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.

REMARKS:

(Instructions on reverse)

E O Benson

(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 872894

Balboa Mining and Development Company
Post Office Box 861
Grand Junction, Colorado

August 27, 1958

Progress Report, July, 1958
Docket No. DMEA 4889 (Uranium)
Contract No. Idm-E1178
Laymon Property
Creek County, Wyoming

**DRILLING PROGRESS:**

A total of 2744.0 feet was drilled during the July reporting period with 15 days of the period entirely or partially devoted to drilling. Holes No. 6 through 17 were completed. Minor mechanical breakdowns on the drilling equipment caused some loss of time and several heavy rain storms caused partial loss of several days. Drilling did not start until the 14th of July due to late return of contractor from a funeral in the family. Also, the contractor had to move in some additional equipment to complete the drilling. Holes 12 and 13 were drilled at their amended locations.

**GEOLOGY AND MINERALIZATION:**

Hole No. 6 contained the greatest amount of mineralization out of all holes drilled during this period. This hole probed mineralization from 208.0 to 227.0 feet, this being in the upper Lakota and in a sandstone-mudstone zone. Green, yellow, and brown stains are visible in some of the mud samples collected. Holes 9, 10, and 11 showed a slight mineralization in the upper Lakota. Hole No. 12 showed mineralization from 166.0 to 176.0 in the upper Lakota. The peak of this probed radioactivity was 0.20% $U_3O_8$ at 170.0 to 171.0 feet. Holes 16 and 17 showed very slight mineralization at or near the contact of the Lakota and the underlying Morrison. The remainder of the holes in this series were barren. Holes 15 through 17 were deep holes to test the lower Lakota formation. Lithologic logs, probe, progress map of each hole are enclosed. Assays are not yet available on samples sent in.

Respectfully submitted,

BALBOA MINING AND DEVELOPMENT CO.

By: Albert F. Stoick
Albert F. Stoick
Mining Engineer

AFS:ep

Encl:

# MINCON

P. O. BOX 270

GRAND JUNCTION, COLORADO

## GEOLOGIC AND ASSAY LOG

Drill-hole No. 6 ( )
Total depth 242.0
Collar elev. T 4394.6 P
Area Balboa--Thorn Ridge--Laymon

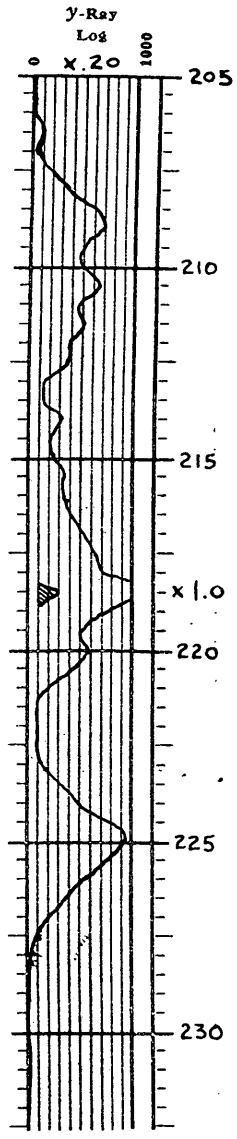
Map coord (T) DMEA #4889
Map coord (P)
Sec. 27 T. 52 N R. 66 W
Co., State Crook County, Wyoming

Claim Laymon Lease
Date completed 6/23/58 - 7/14/58
Date logged 7/14/58
Logged by Stoick - Edson

Summary of log Mineralized ; OBSS 180.0 -212.0 Thick 32.0 ; SS color L Bn-Gy ; MS Gy ; Cbn S

| FOOTAGE Top | Base | Thick | CORE REC | FIELD EST $U_3O_8$ | $V_2O_5$ | Rock | Color | Grain | Access mins | Cbn | M S in S S | Other remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 2.0 | 2.0 | | | | Soil | Bn | | | | | Sandy |
| | 10.0 | 8.0 | | | | ST | DYwBn | Sdy | Lim | A | LGy | Cbn A @ base |
| | 28.0 | 18.0 | | | | ST | YwBn-LYwBn | SDY | Tr Lim | | | A-selenite & Lim 27-28' |
| | 38.0 | 10.0 | | | | ST | Pale Gy | | | | | Very little limonite |
| | 50.0 | 12.0 | | | | ST | LBnGy | | Lim | A | | Cbn @ 44-46 |
| | 60.0 | 10.0 | | | | ST | LYwBn | | | | | Darker @ base |
| 60.0 | 112.0 | 52.0 | | | | SH | DGy-Gy | Silty | | A | | Fissile--T/Fuson |
| | 146.0 | 34.0 | | | | ST | LGy-DGy | | | S | DGy-LGy | Upper 8' damp |
| | 154.0 | 8.0 | | | | ST | Gy-DBnGy | | | S | | |
| | 180.0 | 26.0 | | | | ST | Pale Gy | Sdy @ base | | | Tr Gy | Poor samples |
| 180.0 | 190.0 | 10.0 | | | | SS | Gy-Bn | VF-F | Mica-Pyr | S-A | | T/Lakota- silty |
| | 194.0 | 4.0 | | | | SS | LBn | VF | ALim-Feld | N | | Feldspar pink |
| | 202.0 | 8.0 | | | | SS | Gy-BnGy | VF | Tr Lim | S | | Silty - 202' chg to mud. |
| | 212.0 | 10.0 | | | | SS | Gy Lt Gy | Vf-F-M | U | S | Gy | Gn stains, some Gy Mds |
| | | | | | | | | | | | 209-210 | samples mixed quite badly |
| | | | | | | | | | | | | drld w/water @ 202. |
| | 218.0 | 6.0 | | | | SS MDS | Gy | M-C, Mdy | | little | Gy | Gy Mds & SS mixed, Yl-Gn |
| | | | | | | | | | | | | Stns 214-216. |
| | 230.0 | 12.0 | | | | MDS-SS | Gy Lt Gy | F-M-C Mdy | Pyrite | Little | Gy | Bn Stns, cuttings mixed |
| | 234.0 | 4.0 | | | | SS | Tan-Gy | F-M | Pyrite | Little | | |
| | 242.0 | 8.0 | | | | ST | Lt Gy | | | | | |
| | | | | | | | | | | | | Probed to 240.5 |

| SAMPLE Base | Thick | LAB ASSAY (%) $U_3O_8$* | $V_2O_5$ | $CaCO_3$ | SAMPLE Base | Thick | LAB ASSAY (%) $U_3O_8$* | $V_2O_5$ | $CaCO_3$ | INTERVAL Base | Thick | γ-RAY % $cU_3O_8$ | INTERVAL Base | Thick | γ-RAY % $cU_3O_8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | 219.0 | 1.0 | 0.18 |
| | | | | | | | | | | | | | 225.5 | 1.0 | 0.17 |




Rev.
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Hole No. 6

* Assays marked "e" are from lab gamma-ray readings

COLORADO PRINTING CO.

# MINCON

P. O. BOX 270 — GRAND JUNCTION, COLORADO

## GEOLOGIC AND ASSAY LOG

Drill-hole No. 7 ( )
Total depth 238.0
Collar elev. 4391.3 T. P
Area Balboa- Thorn Ridge- Laymon

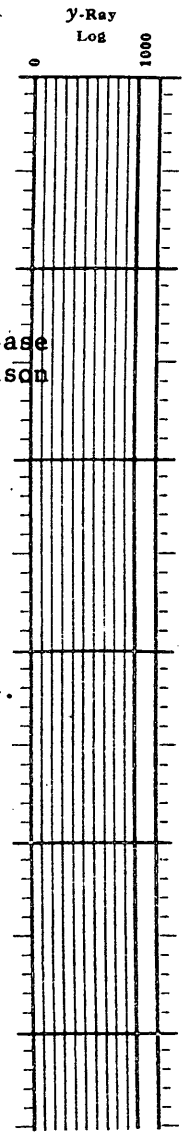
Map coord (T) DMEA # 4889
Map coord (F)
Sec. 27 T. 52N R. 66 W
Co., State Crook County, Wyoming

Claim Laymon Lease
Date completed July 14, 1958
Date logged July 14, 1958
Logged by Stoick

Summary of log Favorable ; OBSS 178-204 thick 26.0 ; SS color L Gy-Gy ; MS Gy ; Cbn A

| FOOTAGE Top | Base | Thick | CORE REC | FIELD EST $U_3O_8$ | $V_2O_5$ | DESCRIPTION Rock | Color | Grain | Access mins | Cbn | M S in S S | Other remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 2.0 | 2.0 | Plug | | | Soil | Bn | | | | | Sandy |
| | 14.0 | 12.0 | | | | St-Sh | Tan-Bn | VF | Mica | | Lt Gy | Sandy |
| 14.0 | 30.0 | 16.0 | | | | SS | Lt Tan | VF | Mica | | | |
| | 50.0 | 20.0 | | | | SS | V Lt Gy | VF | Mica | | | |
| | 60.0 | 10.0 | | | | SS | Lt Tan-Bn | VF | Mica | S | | Selenite and carb near base |
| 60.0 | 102.0 | 42.0 | | | | SH | Gy-Dk Gy | | | | | Silty in part, top of Fuson |
| | 106.0 | 4.0 | | | | SS | Lt Tan | VF | | | | |
| | 138.0 | 32.0 | | | | Sdy St | Gy | VF | | | | Lower part darker Gy |
| | 144.0 | 6.0 | | | | SH | Gy-DkGy | | | | | |
| | 158.0 | 14.0 | | | | SH | LtGy-Gy | | | | | |
| | 176.0 | 18.0 | | | | Sdy-St | LtGy-Gy | | | | | Little Pyrite |
| 178.0 | 200.0 | 14.0 | | | | SS | Lt Gy | VF-F | | A | | Top Lak, carb 186-190 |
| | 204.0 | 4.0 | | | | SS | Gy | F-M | Pyrite | | Gy | Abun pyrite, little Mds |
| | 208.0 | 4.0 | | | | St | Gy | | Pyrite | | | |
| | 212.0 | 4.0 | | | | Sdy-St | Tan-Gy | | Pyrite | | Gy | Hard, little Mds |
| | 230.0 | 18.0 | | | | ST | Gy | | Pyrite | | | Pyrite @ 212-214,218-224. |
| | 238.0 | 8.0 | | | | Sdy St | Gy | | Pyrite | S | | Carb @ 232-234 Py @ 236-238 |
| | | | | | | | | | | | | Probed to 237.5' |

| SAMPLE Base | Thick | LAB ASSAY (%) $U_3O_8$* | $V_2O_5$ | $CaCO_3$ | SAMPLE Base | Thick | LAB ASSAY (%) $U_3O_8$* | $V_2O_5$ | $CaCO_3$ | INTERVAL Base | Thick | γ-RAY % $eU_3O_8$ | INTERVAL Base | Thick | γ-RAY % $eU_3O_8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | 189.0 | 1.0 | Tr |
| | | | | | | | | | | | | | 215.0 | 2.0 | Tr |

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Hole No. 7

* Assays marked "e" are from lab gamma-ray readings

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P. O. BOX 270

GRAND JUNCTION, COLORADO

## GEOLOGIC AND ASSAY LOG

Drill-hole No. 8 (.....)
Total depth 230.0
Collar elev. 4390.4 T. ..... P
Area Balboa-Thorn Ridge-Laymon

Map coord (T) DMEA #4889
Map coord (P) .....
Sec. 27 T. 52 N R. 66 W
Co., State Crook County, Wyoming

Claim Laymon Lease
Date completed July 15, 1958
Date logged July 15, 1958
Logged by Stoick

Summary of log Favorable ; OBSS 172.0-212 thick 40.0 ? ; SS color LGy-Bk ; MS N ; Cbn S-A

| FOOTAGE Top | FOOTAGE Base | FOOTAGE Thick | CORE REC | FIELD EST $U_3O_8$ | FIELD EST $V_2O_5$ | DESCRIPTION Rock | Color | Grain | Access mins | Cbn | M S in S S | Other remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 2.0 | 2.0 | Plug | | | Soil | Bn | | | | | Little shale |
| | 14.0 | 12.0 | | | | St-Sh | Bn-Gy | | Mica | A | | Carb @ bottom |
| | 30.0 | 16.0 | | | | SS | Lt Tan | VF | | | Gy | More Bn near bottom. |
| | 52.0 | 22.0 | | | | SS | Lt Gy | VF | Mica | | | |
| | 58.0 | 6.0 | | | | SS | Tan-Bn | VF | Mica | S | | Carb @ base |
| 58.0 | 104.0 | 46.0 | | | | Sh | Gy-DkGy | | | | | Top Fuson, silty in part |
| | 108.0 | 4.0 | | | | Sdy-St | L Gy | | | | | |
| | 112.0 | 4.0 | | | | Sh | Gy | | | | | |
| | 134.0 | 22.0 | | | | Sdy-St | LtGy-Gy | | Pyrite | | | Py 114-124, Bk-DkGy @ 134 |
| | 144.0 | 10.0 | | | | Sh-Sty | Gy | Sty | | | | |
| | 160.0 | 16.0 | | | | Sh | Lt Gy | | Pyrite | | | Py 158-160. |
| | 172.0 | 12.0 | | | | St | Lt Gy | Sdy | Pyrite | | | Py 160-170 |
| 172.0 | 192.0 | 20.0 | | | | SS | Lt Gy | VF | Pyrite | S-A | | Top Lak, carb & Py: 182-192 |
| | 202.0 | 10.0 | | | | SS | Lt Gy | VF-F-M | Pyrite | S | | Carb & Py mostly at 192-196 |
| | 212.0 | 10.0 | | | | SS | LtGy-Bk | M-C | Pyrite | S-A | | Carb & Py mostly at 202-208. |
| | 222.0 | 10.0 | | | | Ms | Lt Gy | | | | | Some Bk silicified material |
| | 230.0 | 8.0 | | | | St | LtGy-Gy | | | | | |
| | | | | | | | | | | | | Probed to 228.5 |

| SAMPLE Base | SAMPLE Thick | LAB ASSAY (%) $U_3O_8$* | $V_2O_5$ | $CaCO_3$ | SAMPLE Base | SAMPLE Thick | LAB ASSAY (%) $U_3O_8$* | $V_2O_5$ | $CaCO_3$ | INTERVAL Base | INTERVAL Thick | γ-RAY % $eU_3O_8$ | INTERVAL Base | INTERVAL Thick | γ-RAY % $eU_3O_8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | Barren to 228.5 | | |

γ-Ray Log 0 1000

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Hole No. 8

* Assays marked "e" are from lab gamma-ray readings

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P. O. BOX 270

GRAND JUNCTION, COLORADO

## GEOLOGIC AND ASSAY LOG

Drill-hole No. 9 ( )
Total depth 208.0
Collar elev. 4382.1 T. P
Area Balboa-Thorn Ridge-Laymon

Map coord (T) DMEA #4889
Map coord (P)
Sec. 27 T. 52 N R. 66 W
Co., State Crook County, Wyoming

Claim Laymon Lease
Date completed July 15, 1958
Date logged July 15, 1958
Logged by Stoick

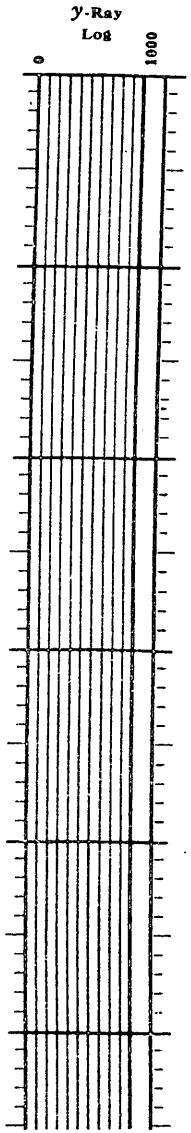
Summary of log Semi-favorable ; OBSS 170.0-188.0 thick 18.0 ; SS color Gy ; MS N ; Cbn S

| FOOTAGE Top | FOOTAGE Base | FOOTAGE Thick | CORE REC | FIELD EST $U_3O_8$ | FIELD EST $V_2O_5$ | DESCRIPTION Rock | Color | Grain | Access mins | Cbn | M S in S S | Other remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 2.0 | 2.0 | Plug | | | Soil | Bn | | | | | |
| | 16.0 | 14.0 | | | | Sh-St | Tan-Bn | Sty | Mica | S | | Carb near base. |
| | 30.0 | 14.0 | | | | SS | Lt-Tan-Tan VF | | | S | | Little Gy Sh near top. |
| | 48.0 | 18.0 | | | | SS | Lt Gy | VF | Mica, Fe | | | Fe stns 38-40. |
| | 60.0 | 12.0 | | | | SS | Lt Tan | VF | Mica | A | | A carb @ base |
| 60.0 | 62.0 | 2.0 | | | | St | Gy | | | | | Top fuson Sty in part |
| | 104.0 | 42.0 | | | | Sh | Gy | | | | | |
| | 114.0 | 10.0 | | | | St | Gy | | Mica | | | |
| | 138.0 | 24.0 | | | | Sdy St | Gy | | | | | Damp |
| | 144.0 | 6.0 | | | | Sh | Gy | Sty | | S | | S carb @ base. |
| | 152.0 | 8.0 | | | | Sh | LtGy | | | | | |
| | 160.0 | 8.0 | | | | Sh | Gy | Sty | | S | | Some Bk carb shale |
| | 170.0 | 10.0 | | | | St | Gy | | | | | |
| 170.0 | 188.0 | 18.0 | | | | SS | Gy | VF | Pyrite | S | | Top Lak, Carb & Py 182-188 |
| | 198.0 | 10.0 | | | | SdySt | Lt Gy | | | | | |
| | 204.0 | 6.0 | | | | SS | Lt Gy | VF-F | | | | |
| | 208.0 | 4.0 | | | | MS | Gy | | | | | |
| | | | | | | | | | | | | Probed to 205' |

| SAMPLE Base | SAMPLE Thick | LAB ASSAY (%) $U_3O_8$* | $V_2O_5$ | $CaCO_3$ | SAMPLE Base | SAMPLE Thick | LAB ASSAY (%) $U_3O_8$* | $V_2O_5$ | $CaCO_3$ | INTERVAL Base | INTERVAL Thick | γ-RAY % eU3O8 | INTERVAL Base | INTERVAL Thick | γ-RAY % eU3O8 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | 184.0 | 2.0 | Tr |

* Assays marked "e" are from lab gamma-ray readings

γ-Ray Log

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Hole No. 9

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P. O. BOX 270 — GRAND JUNCTION, COLORADO

## GEOLOGIC AND ASSAY LOG

Drill-hole No. 10 (.....)
Total depth 202.0
Collar elev. 4386.1 T. ..... P
Area Balboa-Thorn Ridge-Laymon

Map coord (T) DMEA #4889
Map coord (P) .....
Sec. 27 T. 52 N R. 66 W
Co., State Crook County, Wyoming

Claim Laymon Lease
Date completed July 16, 1958
Date logged July 16, 1958
Logged by Stoick

Summary of log Semi-favorable ; OBSS 174.0-188.0 thick 14.0 ; SS color L. Gy ; MS N ; Cbn Tr

| FOOTAGE Top | Base | Thick | CORE REC | FIELD EST $U_3O_8$ | $V_2O_5$ | DESCRIPTION Rock | Color | Grain | Access mins | Cbn | M S in S S | Other remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 2.0 | 2.0 | Plug | | | Soil | Bn | | | | | |
| | 16.0 | 14.0 | | | | Sh-St | Tan-Bn | | | S | | Some carb Sh |
| | 30.0 | 14.0 | | | | SS | Lt Tan | VF | Fe | | | Fe stns |
| | 52.0 | 22.0 | | | | SS | Lt Gy | VF | Mica | Tr | Gy | Little Gy Sh |
| | 62.0 | 10.0 | | | | SS | LtTan-Gy | VF | | Tr | Gy | Little Gy Sh |
| 62.0 | 106.0 | 44.0 | | | | Sh | Gy-DkGy | | | | | Top Fuson Sty in part. |
| | 110.0 | 4.0 | | | | SS | Lt Gy | VF | Mica | | | |
| | 146.0 | 36.0 | | | | ST | Gy-LtGy | | | | | Sdy in part |
| | 152.0 | 6.0 | | | | Sh | Lt Gy | | | Tr | | |
| | 156.0 | 4.0 | | | | Sh-St | LtGy-Gy | | Pyrite | | | |
| | 162.0 | 6.0 | | | | Sh | Gy | | Pyrite | Tr | | |
| | 174.0 | 12.0 | | | | St | Gy | | Tr Py | | | |
| 174.0 | 180.0 | 6.0 | | | | Sdy St | Lt Gy | VF | Tr Py | | | Top Lakota |
| | 188.0 | 8.0 | | | | SS | Lt Gy | VF | Tr Py | Tr | | Carb & Py: 180-182, 186-188. |
| | 196.0 | 8.0 | | | | Sdy St | Lt Gy | | Tr Py | | Gy | Gy Sh @ 192-196, with Py. |
| | 202.0 | 6.0 | | | | MS | Gy-GyGn | | | | | |
| | | | | | | | | | | | | Probed to 196.0' |

| SAMPLE Base | Thick | LAB ASSAY (%) $U_3O_8$* | $V_2O_5$ | $CaCO_3$ | SAMPLE Base | Thick | LAB ASSAY (%) $U_3O_8$* | $V_2O_5$ | $CaCO_3$ | INTERVAL Base | Thick | γ-RAY % e$U_3O_8$ | INTERVAL Base | Thick | γ-RAY % e$U_3O_8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | 187.5 | 2.0 | Tr |

* Assays marked "e" are from lab gamma-ray readings

γ-Ray Log (0 — 1000)

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Ed. .....

Hole No. 10

COLORADO PRINTING CO.

# MINCON

P. O. BOX 270

GRAND JUNCTION, COLORADO

## GEOLOGIC AND ASSAY LOG

Drill-hole No. 11 ( )
Total depth 202.0
Collar elev. 4382.1 T P
Area Balboa-Thorn Ridge-Laymon
Summary of log Favorable ; OBSS 170.0-198.0 thick 28.0 ; SS color L Gy ; MS Gy-Tn ; Cbn Tr

Map coord (T) DMEA #4889
Map coord (P)
Sec. 27 T. 52 N R. 66 W
Co., State Crook County, Wyoming

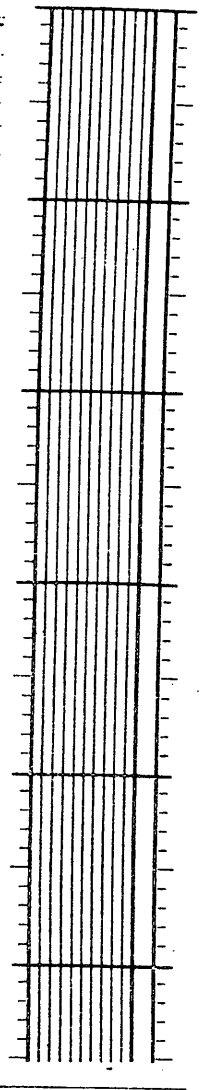
Claim Laymon Lease
Date completed July 16, 1958
Date logged July 16, 1958
Logged by Stoick

| FOOTAGE Top | Base | Thick | CORE REC | FIELD EST $U_3O_8$ | $V_2O_5$ | DESCRIPTION Rock | Color | Grain | Access mins | Cbn | M S in S S | Other remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 4.0 | 4.0 | Plug | | | Soil | Bn | | | | | |
| | 18.0 | 14.0 | | | | Sh-St | Tn-Bn-Gy | VF | Fe, Mica | S | | Fe stains |
| | 28.0 | 10.0 | | | | SS | Tan | VF-F | | S | Gy | |
| | 50.0 | 22.0 | | | | SS | Lt Gy | VF-F | Fe Mica | S | | Damp |
| | 60.0 | 10.0 | | | | SS | Tan | VF | Selenite | S | | Damp |
| 60.0 | 62.0 | 2.0 | | | | St | Gy | | | | | Top Fuson |
| | 100.0 | 38.0 | | | | Sh | Gy-DkGy | | | | | Sty in part |
| | 104.0 | 4.0 | | | | St | Gy-LtGy | | | | | |
| | 108.0 | 4.0 | | | | Sdy-St | Lt Gy | VF | | | | |
| | 146.0 | 38.0 | | | | St | Gy-Dk-Gy | | | Tr | | Damp |
| | 154.0 | 8.0 | | | | Sh | Gy | | | | | |
| | 164.0 | 10.0 | | | | St | Gy | | Pyrite | | | |
| | 170.0 | 6.0 | | | | Sdy-St | Lt Gy | | | | | |
| 170.0 | 198.0 | 28.0 | | | | SS | Lt Gy | VF | Pyrite | Tr | Gy-Tan | Top Lakota |
| | 202.0 | 4.0 | | | | MS | Gy-GyGn | | | | | No sample 200-202 |
| | | | | | | | | | | | | Finished hole w/water. |
| | | | | | | | | | | | | Probed to 202.0 |

| SAMPLE Base | Thick | LAB ASSAY (%) $U_3O_8$* | $V_2O_5$ | $CaCO_3$ | SAMPLE Base | Thick | LAB ASSAY (%) $U_3O_8$* | $V_2O_5$ | $CaCO_3$ | INTERVAL Base | Thick | γ-RAY % $eU_3O_8$ | INTERVAL Base | Thick | γ-RAY % $eU_3O_8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | 187.0 | 1.0 | Tr |

* Assays marked "e" are from lab gamma-ray readings

γ-Ray Log

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Hole No. 11

COLORADO PRINTING CO.

# MINCON

P. O. BOX 270

GRAND JUNCTION, COLORADO

## GEOLOGIC AND ASSAY LOG

Drill-hole No. 12 ( 12 X )
Total depth 190.0
Collar elev. 4373.5 T 4372.4 P
Area Balboa-Thorn Ridge-Laymon

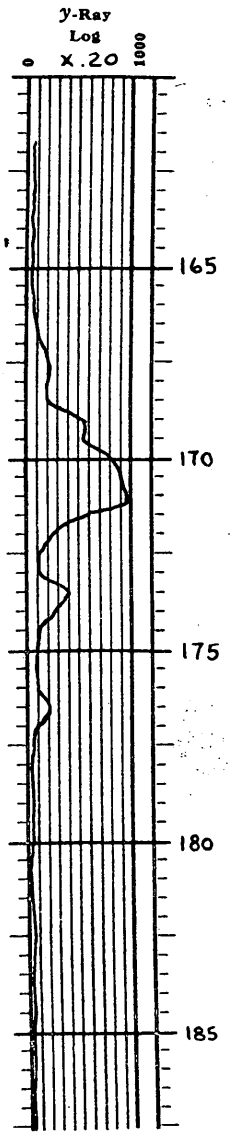
Map coord (T) DMEA # 4889
Map coord (P)
Sec. 27 T. 52 N R. 66 W
Co., State Crook County, Wyoming

Claim Laymon Lease
Date completed July 17, 1958
Date logged July 17, 1958
Logged by Stoick

Summary of log Mineralized ; OBSS 158.0-178.0 thick 20.0 ; SS color L Gy ; MS N ; Cbn S

| FOOTAGE Top | Base | Thick | CORE REC | FIELD EST $U_3O_8$ | $V_2O_5$ | DESCRIPTION Rock | Color | Grain | Access mins | Cbn | M S in S S | Other remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 4.0 | 4.0 | Plug | | | Soil | Bn | | | | | Sandy damp |
| | 24.0 | 20.0 | | | | SS | Tan-Bn | VF | | Tr | Gy | Drilled w/water after 20' |
| | 50.0 | 26.0 | | | | SS | Lt Gy | VF | Mica | Tr | Gy | Carb 32-40 |
| | 54.0 | 4.0 | | | | SS | Tan | VF | | S | | |
| 54.0 | 58.0 | 4.0 | | | | St | Gy | | | | | Top Fuson |
| | 102.0 | 44.0 | | | | Sh | Gy-DkGy | | | | | Sty in part |
| | 136.0 | 34.0 | | | | SdySt | Gy-LtGy | | | | | Sandy silt. |
| | 150.0 | 14.0 | | | | Sh-St | LtGy-Gy | | | | | Shale & silt mixed |
| | 152.0 | 2.0 | | | | Sh | Gy | | | | | |
| | 158.0 | 6.0 | | | | SdySt | Gy | | Pyrite | Tr | | |
| 158.0 | 178.0 | 20.0 | | | | SS | Lt Gy | VF | Pyrite | S | | Top Lakota |
| | 190.0 | 12.0 | | | | St | Lt Gy | Sdy | Pyrite | | | Sandy silt. |
| | | | | | | | | | | | | Probed to 188.4 |

| SAMPLE Base | Thick | LAB ASSAY (%) $U_3O_8$* | $V_2O_5$ | $CaCO_3$ | SAMPLE Base | Thick | LAB ASSAY (%) $U_3O_8$* | $V_2O_5$ | $CaCO_3$ | INTERVAL Base | Thick | γ-RAY % $cU_3O_8$ | INTERVAL Base | Thick | γ-RAY % $cU_3O_8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | 171.0 | 1.0 | 0.18 |

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Hole No. 12

* Assays marked "c" are from lab gamma-ray readings

COLORADO PRINTING CO.

# MINCON

**GEOLOGIC AND ASSAY LOG**

P. O. BOX 270

GRAND JUNCTION, COLORADO

Drill-hole No. 13 ( 13 X )
Total depth 200.0
Collar elev. 4373.6 T 4373.8 P
Area Balboa-Thorn Ridge-Laymon

Map coord (T) DMEA #4889
Map coord (P)
Sec. 27 T. 52 N R. 66 W
Co., State Crook County, Wyoming

Claim Laymon Lease
Date completed July 19, 1958
Date logged July 19, 1958
Logged by Stoick

Summary of log Semifavorable ; OBSS 166.0-182.0 thick 16.0 ; SS color Lt Gy ; MS Gy ; Cbn Tr

| FOOTAGE Top | Base | Thick | CORE REC | FIELD EST $U_3O_8$ | $V_2O_5$ | DESCRIPTION Rock | Color | Grain | Access mins | Cbn | M S in S S | Other remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 4.0 | 4.0 | Plug | | | Soil | Bn | | | | | Sandy |
| | 30.0 | 26.0 | | | | SS | LtTan-Bn | VF | Mica, Fe | A | Gy | A carb @ base. |
| | 50.0 | 20.0 | | | | SS | Lt Gy | VF | Mica, Fe | | | Fe stains |
| | 56.0 | 6.0 | | | | SS | Tan-Gy | VF | | | | Very poor samples |
| 56.0 | 64.0 | 8.0 | | | | St | Gy | | | | | Top Fuson |
| | 102.0 | 38.0 | | | | Sh | Gy-DkGy | | | | | Sty in parts |
| | 144.0 | 42.0 | | | | St | Gy | | | | | Sdy in parts |
| | 154.0 | 10.0 | | | | Sh | Lt Gy | | | | | |
| | 166.0 | 12.0 | | | | Sdy St | Gy | VF | Pyrite | S | | |
| 166.0 | 182.0 | 16.0 | | | | SS | Lt Gy | Vf-F | Tr Py | Tr | Gy | Top Lakota |
| | 194.0 | 12.0 | | | | St | Lt Gy | | Tr Py | | | Very little pyrite |
| | 200.0 | 6.0 | | | | MS | Gy-GyGn | | Tr Py | | Gy | Some gy St mixed in |
| | | | | | | | | | | | | Hole drilled with water after 22.0' |
| | | | | | | | | | | | | Probed to 188.0 Barren |

| SAMPLE Base | Thick | LAB ASSAY (%) $U_3O_8$* | $V_2O_5$ | $CaCO_3$ | SAMPLE Base | Thick | LAB ASSAY (%) $U_3O_8$* | $V_2O_5$ | $CaCO_3$ | INTERVAL Base | Thick | γ-RAY % e$U_3O_8$ | INTERVAL Base | Thick | γ-RAY % e$U_3O_8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | |

* Assays marked "e" are from lab gamma-ray readings

γ-Ray Log 0 1000

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Hole No. 13

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# MINCON

**GEOLOGIC AND ASSAY LOG**

P. O. BOX 270

GRAND JUNCTION, COLORADO

Drill-hole No. 14 ( )
Total depth 200.0
Collar elev. 4370.8 T P
Area Balboa-Thorn Ridge-Laymon

Map coord (T) DMEA #4889
Map coord (P)
Sec. 27 T. 52 N R. 66 W
Co., State Crook County, Wyoming

Claim Laymon Lease
Date completed July 20, 1958
Date logged July 21, 1958
Logged by Stoick

Summary of log Semifavorable ; OBSS 164.0 - 180.0 Thick 16.0 ; SS color Lt Gy ; MS N ; Cbn Very little

| FOOTAGE Top | FOOTAGE Base | FOOTAGE Thick | CORE REC | FIELD EST $U_3O_8$ | FIELD EST $V_2O_5$ | DESCRIPTION Rock | Color | Grain | Access mins | Cbn | M S in S S | Other remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 4.0 | 4.0 | Plug | | | Soil | Bn | | | | | Sandy |
| | 24.0 | 20.0 | | | | SS | Lt Tan-Bn | VF | Mica | | | Drilled w/water after 22' |
| | 50.0 | 26.0 | | | | SS | Lt Gy | VF | Mica | | | Some Gy-Tan near base. |
| | 52.0 | 2.0 | | | | SS | Bn | VF | | | | |
| 52.0 | 56.0 | 4.0 | | | | St | Gy | | | | | Top Fuson |
| | 100.0 | 44.0 | | | | Sh | Gy-DkGy | | | | | Sty in parts |
| | 140.0 | 40.0 | | | | St | Gy | | Tr Pyr. | | | |
| | 152.0 | 12.0 | | | | Sh-St | LtGy-Gy | | | | | Sh & St mixed |
| | 164.0 | 12.0 | | | | St | Lt Gy-Gy | | Tr Pyr. | | | |
| 164.0 | 180.0 | 16.0 | | | | SS | Lt Gy | VF-F | Tr Pyr | Tr | | Top Lak, Pyrite near base |
| | 200.0 | 20.0 | | | | ST | Lt Gy | | Tr Pyr | | | |
| | | | | | | | | | | | | Probed to 198.5' |
| | | | | | | | | | | | | Barren |

| SAMPLE Base | SAMPLE Thick | LAB ASSAY (%) $U_3O_8$* | LAB ASSAY (%) $V_2O_5$ | LAB ASSAY (%) $CaCO_3$ | SAMPLE Base | SAMPLE Thick | LAB ASSAY (%) $U_3O_8$* | LAB ASSAY (%) $V_2O_5$ | LAB ASSAY (%) $CaCO_3$ | INTERVAL Base | INTERVAL Thick | γ-RAY % $eU_3O_8$ | INTERVAL Base | INTERVAL Thick | γ-RAY % $eU_3O_8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

γ-Ray Log 0 1000

Rev.
Ed.

Hole No. 14

* Assays marked "e" are from lab gamma-ray readings

COLORADO PRINTING CO.

# MINCON

P. O. BOX 270 — GRAND JUNCTION, COLORADO

## GEOLOGIC AND ASSAY LOG

Drill-hole No. 15 (.....)
Total depth 272.0
Collar elev. 4364.6 T..... P.....
Area Balboa-Thorn Ridge-Laymon

Map coord (T) DMEA # 4889
Map coord (P).....
Sec. 27 T. 52 N R. 66 W
Co., State Crook County, Wyoming

Claim Laymon Lease
Date completed July 25, 1958
Date logged July 25, 1958
Logged by Stoick

Summary of log Semifavorable ; OBSS 170.0-188.0 thick 18.0 ; SS color L Gy-Gy ; MS N ; Cbn N
250.0-269.0 19.0

| FOOTAGE Top | Base | Thick | CORE REC | FIELD EST $U_3O_8$ | $V_2O_5$ | DESCRIPTION Rock | Color | Grain | Access mins | Cbn | M S in S S | Other remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 4.0 | 4.0 | Plug | | | Soil Bn | Bn | | | | | Sandy |
| | 12.0 | 8.0 | | | | SS-Sh | Tan-Gy | VF | | | | |
| | 30.0 | 18.0 | | | | SS | Tan-Bn | VF | Fe, Mica | | | Fe stains |
| | 52.0 | 22.0 | | | | SS | Lt Gy | VF | Fe | Tr | | Few Fe stains, damp. |
| | 60.0 | 8.0 | | | | SS | Lt Tan-Gy | VF | | | Gy | Little Gy Sh. |
| 60.0 | 90.0 | 30.0 | | | | Sh | Lt Gy-Gy | | | | | Top Fuson, Sty in part. |
| | 124.0 | 34.0 | | | | St | Gy | | | | | Drilled w/water at 104.0 |
| | 152.0 | 38.0 | | | | Sdy St | Gy | | Tr Pyr. | | | Pyr near base |
| | 162.0 | 10.0 | | | | St-Sh | Gy | | | | | Silt & shale mixed |
| | 170.0 | 8.0 | | | | Sdy St | Gy-Lt Gy | | | | | |
| 170.0 | 188.0 | 18.0 | | | | SS | Lt Gy | VF-F | | | | Top Lak |
| | 196.0 | 8.0 | | | | Sdy-St | Lt Gy | | Tr Py | | | Very little Pyr near base |
| | 208.0 | 12.0 | | | | MS | Gy-Gn | | Pyrite | | | Some Gy silt, samples bad |
| | 224.0 | 16.0 | | | | SS | Lt Gy | VF-F | A Pyrite | | | |
| | 240.0 | 16.0 | | | | St | Gy | | Tr Pyr | | | |
| | 250.0 | 10.0 | | | | SS | Gy | VF-F-M | Pyrite | | | Black Spks, alt spar ? |
| | 269.0 | 19.0 | | | | SS | Gy | M-C-Cgl | Tr Pyr | | | Black Spks alt spar? |
| 269.0 | 272.0 | 3.0 | | | | MS | Gy-Bn | | Tr Pyr | | | Top Morrison |
| | | | | | | | | | | | | Hole washed and caved badly |
| | | | | | | | | | | | | 1½ days washing hole - caving so could probe to only 195.5 |

| SAMPLE Base | Thick | LAB ASSAY (%) $U_3O_8$* | $V_2O_5$ | $CaCO_3$ | SAMPLE Base | Thick | LAB ASSAY (%) $U_3O_8$* | $V_2O_5$ | $CaCO_3$ | INTERVAL Base | Thick | γ-RAY % eU₃O₈ | INTERVAL Base | Thick | γ-RAY % eU₃O₈ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | |

γ-Ray Log 0 — 1000

Rev. .....
Ed .....

Hole No. 15

* Assays marked "e" are from lab gamma-ray readings

COLORADO PRINTING CO.

# MINCON

P. O. BOX 270 — GRAND JUNCTION, COLORADO

## GEOLOGIC AND ASSAY LOG

Drill-hole No. 16 ( )
Total depth 280.0
Collar elev. 4366.2 T. P
Area Balboa-Thorn Ridge-Laymon

Map coord (T) DMEA # 4889
Map coord (P)
Sec. 27 T. 52 N R. 66 W
Co., State Crook County, Wyoming

Claim Laymon Lease
Date completed July 28, 1958
Date logged July 28, 1958
Logged by Stoick

Summary of log Favorable ; OBSS 166.0-188.0 thick 22.0 ; SS color Lt Gy-Gy ; MS N ; Cbn Tr
240.0-272.0 32.0

| FOOTAGE Top | Base | Thick | CORE REC | FIELD EST $U_3O_8$ | $V_2O_5$ | DESCRIPTION Rock | Color | Grain | Access mins | Cbn | M S in S S | Other remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 4.0 | 4.0 | Plug | | | Soil | Bn-Gy | | | | | Sandy |
| | 12.0 | 8.0 | | | | SS-Sh | Tan-Gy | VF | | A | | A carb @ base |
| | 30.0 | 18.0 | | | | SS | Lt tan | VF | Fe | S | | Fe stns |
| | 48.0 | 18.0 | | | | SS | Lt Gy | VF-F | Fe | Tr | | " " |
| | 56.0 | 8.0 | | | | SS | Lt Tan-Gy | VF | Fe | Tr | | " " |
| 56.0 | 60.0 | 4.0 | | | | St | LtGy-Gy | | Tr Pyr | | | Top Fuson |
| | 98.0 | 38.0 | | | | Sh | Gy-DkGy | | | | | Sty in part |
| | 120.0 | 22.0 | | | | ST | Gy | | | | | Sdy in part damp |
| | 134.0 | 14.0 | | | | Sdy St | Gy | | | | | Damp |
| | 144.0 | 10.0 | | | | ST | Gy | | | | | |
| | 152.0 | 8.0 | | | | St-Sh | Gy-Pink | | | | | Red Sh gives pink cast. |
| | 166.0 | 14.0 | | | | St | Lt Gy | | Pyrite | | | Much Py 156.0-162.0 |
| 166.0 | 188.0 | 22.0 | | | | SS | Lt Gy-Gy | VF | | Tr | | Top Lak, very little carb. |
| | 210.0 | 22.0 | | | | Sdy St | Lt Gy | VF | Tr Pyr | | | Some VF SS, mostly Sty |
| | 214.0 | 4.0 | | | | MS | Gy-Gn | | | | | Drilled w/water after 208. |
| | 240.0 | 26.0 | | | | Sdy St | Lt Gy | | | | Gy | Little MDS @ 222-224 |
| 240.0 | 252.0 | 12.0 | | | | SS | Gy | VF | | | | Few Bk Spks, poor samples |
| | 272.0 | 20.0 | | | | SS | Gy | M-C-Cgl | Tr Pyr | | | Some Alt Spar?, Bk Spks? |
| 272.0 | 280.0 | 8.0 | | | | MS | Gy-Gn,Bk | | | | | Top Morrison |
| | | | | | | | | | | | | Probed to 274.1' |

| SAMPLE Base | Thick | LAB ASSAY (%) $U_3O_8$* | $V_2O_5$ | $CaCO_3$ | SAMPLE Base | Thick | LAB ASSAY (%) $U_3O_8$* | $V_2O_5$ | $CaCO_3$ | INTERVAL Base | Thick | γ-RAY % $cU_3O_8$ | INTERVAL Base | Thick | γ-RAY % $cU_3O_8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | 271.0 | 1.0 | Tr |

γ-Ray Log 0 — 1000

Rev.
Ed.

Hole No. 16

* Assays marked "c" are from lab gamma-ray readings

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# MINCON

**GEOLOGIC AND ASSAY LOG** — P. O. BOX 270 — GRAND JUNCTION, COLORADO

Drill-hole No. 17 ( )
Total depth 280.0
Collar elev. 4370.1 T. P
Area Balboa-Thorn Ridge-Laymon

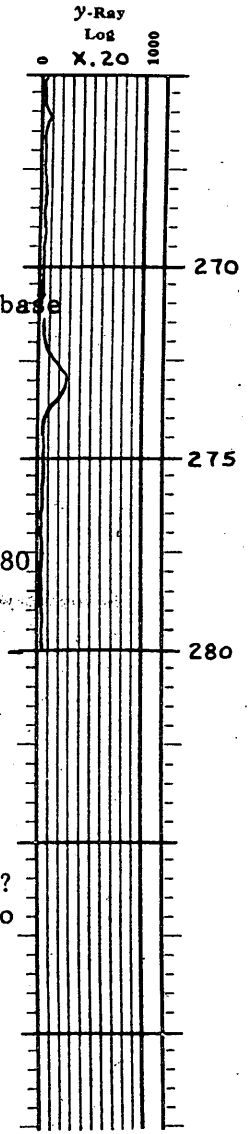
Map coord (T) DMEA # 4889
Map coord (P)
Sec. 27 T. 52 N R. 66 W
Co., State Crook County, Wyoming

Claim Laymon Lease
Date completed July 31, 1958
Date logged August 1, 1958
Logged by Stoick

Summary of log Semifavorable ; OBSS 168.0-184.0 thick 16.0 ; SS color L Gy ; MS N ; Cbn N
242.0-270 28.0

| FOOTAGE Top | Base | Thick | CORE REC | FIELD EST $U_3O_8$ | $V_2O_5$ | DESCRIPTION Rock | Color | Grain | Access mins | Cbn | M S in S S | Other remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 4.0 | 4.0 | Plug | | | Soil | Bn | | | | | |
| | 12.0 | 8.0 | | | | Sh-SS | Br-Gy | VF | | | | |
| | 28.0 | 16.0 | | | | SS | Lt Tan | VF | Mica,Fe | S | Gy | Carb near base, Fe stns |
| | 50.0 | 22.0 | | | | SS | Lt Gy | VF | Fe | S | | Fe stns, little carb @ base |
| | 56.0 | 6.0 | | | | SS | Lt Tan | VF | | S | | Little carb near base. |
| 56.0 | 62.0 | 6.0 | | | | ST | LtGy-Gy | | | | | Top Fuson |
| | 64.0 | 2.0 | | | | St-Sh | Gy | | | | | Shales and silt mixed. |
| | 96.0 | 32.0 | | | | Sh | Gy-DkGy | | | | | Sty in part |
| | 140.0 | 44.0 | | | | St | Gy-LtGy | | Tr Pyr | Tr | | Sdy in part |
| | 148.0 | 8.0 | | | | Sh | Lt Gy | | Tr Pyr | | | Some red-Bn silt |
| | 168.0 | 20.0 | | | | Sdy St | Lt Gy | | | A | | Much Pyrite |
| 168.0 | 184.0 | 16.0 | | | | SS | Lt Gy | VF-F | Tr Pyr | S | | Top Lak, A carb @ 178-180 |
| | 192.0 | 8.0 | | | | ST | Gy | | Pyrite | | | Small samples |
| | 206.0 | 14.0 | | | | SS | Lt Gy | VF-F | Tr Pyr | | | |
| | 208.0 | 2.0 | | | | MS | Lt Gy | | | | | |
| | 212.0 | 4.0 | | | | SS | Lt Gy | F- M | | | Gy | Little Gy MS |
| | 218.0 | 6.0 | | | | MS | Lt Gy | | Pyrite | | | Bent |
| | 222.0 | 4.0 | | | | SS | Lt Gy | VF | Tr Pyr | | Gy | Little Gy MS |
| | 242.0 | 20.0 | | | | ST | Lt Gy-Gn | | | | | Mdy in part |
| 242.0 | 250.0 | 8.0 | | | | SS | Lt Tan-Gy | VF | | | | |
| | 256.0 | 6.0 | | | | SS | Lt Gy | VF | | | | |
| | 270.0 | 14.0 | | | | SS | Gy-Bn | F-C-Cgl | | | | Much Cgl some alt Spar ? |
| 270.0 | 280.0 | 10.0 | | | | MS | Bk Gy Gn | | Tr Pyr | | | Top Morrison, changed to |
| | | | | | | | | | | | | water @ 268.0 samples |
| | | | | | | | | | | | | mixed thereafter |

| SAMPLE Base | Thick | LAB ASSAY (%) $U_3O_8$* | $V_2O_5$ | $CaCO_3$ | SAMPLE Base | Thick | LAB ASSAY (%) $U_3O_8$* | $V_2O_5$ | $CaCO_3$ | INTERVAL Base | Thick | γ-RAY % $eU_3O_8$ | INTERVAL Base | Thick | γ-RAY % $eU_3O_8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | 274.0 | 1.0 | Tr |




Rev.
Ed.

Hole No. 17

* Assays marked "e" are from lab gamma-ray readings

COLORADO PRINTING CO.

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| 8/25 | C | 220 |
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| 8/26 | | 700 |
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22A Rev Centerpoint
Denver 2, Colorado
August 22, 1958

Memorandum

To: T. A. Christensen

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

Subject: Docket No. DMEA 1499 (Uranium) Contract 14-E1178, Balbon Mining and Development Company, (Lease property) Crook County, Wyoming - Operator's Monthly Progress Report for the month of June, 1958

Enclosed are the original and four copies each of Forms RF-104 and RF-104A, Operator's Narrative Report, and Engineer's Report for the above period.

The work is being performed partly under independent subcontract, and partly on fixed unit costs. The drilling rates are as low or lower than the rates contained in the lease; and bond bid submitted with the application. Under the circumstances, the rates for the work performed under independent subcontract are considered to be reasonable.

We consider that the Operator has complied with the intent of the contract, and the work for which payment is recommended is acceptable to the Government. Payment is recommended for 50 percent of the amount reported on Form RF-104 for June, 1958, contingent on your verification of the correctness of applicable rates and arithmetical accuracy of computations.

Remarks:

Date of Report----------July 11, 1958
Date Received in Field Office----------July 14, 1958
Date Received in Region Office----------August 13, 1958

Original signed by
J. W. TOWNSEND
J. W. Townsend

MEM:bmh

Enclosures

cc: Chem. Op. Comm. (2)
Hayes, Hdq/DEC
RF-104 File, Reg. III
Hardman - w/copy Engr's report
Carter

DMEA
DEPARTMENT OF THE INTERIOR

AUG 13 1958
REGION III
DENVER, COLORADO

REGION III

Building 20
Denver Federal Center
Denver 2, Colorado
August 12, 1958

Reference:

To: Alternate Acting Executive Officer, DMEA Field Team, Reg. III

From: E. G. Bingen

Subject: Contract DMEA 4889 (Uranium) Contract Ilm-X1178
Dalton Mining and Development Company (Lagoon Property)
Grant County, Wyoming -- Progress Report for June 1958

The operator's report was received July 16, 1958, however, the field inspection was delayed owing to travel restrictions until August 5, 1958.

Locations and depths of the holes were found to be as reported and designated in the amended contract. Five holes with a total aggregate footage of 1055.3 feet were drilled during the period. Probe results showed only 2 holes -- holes No. 2 and No. 3 -- to have ore grade (.10 percent $U_3O_8$) intercepts. The results for holes No. 4 and No. 5 ranged from .04 to .09 percent $U_3O_8$. From the standard ranges however only hole No. 3 encountered ore grade material. This was at depth 224 to 226 feet or a 2 foot thickness averaging 0.17 percent $U_3O_8$. The probe results indicated a 3.5 foot thickness of .13 percent $U_3O_8$ at depth 222.5 to 225.

A check of the lithologic logs show that the drilling conformed to the terms of the contract having to do with the depth to be drilled into the upper and lower Lakota conglomerates. The top of the upper conglomerate of the Lakota formation is very gradational and somewhat difficult to establish exactly, since the gray to blue gray sediments that lies between the upper and lower Lakota conglomerates is variable in thickness and as in hole No. 5 is not present at all. The depths of hole No. 3 and No. 5 are within 3 and 10 feet respectively of the depths designated by the contract and owing to the difficulty in determining both the lower and upper contacts is allowable.

The SF-254 and 108A forms were found to be properly prepared and the amounts claimed are documented. It is therefore recommended that the operator be paid $690.92 or the Government's share at 50 percent of $1,381.85, the amount claimed.

One copy of the map and logs has been retained in this office. The contract expires December 1, 1958.

E. G. Bingen

EGB/mr cc: 6 Ilm-X1178 clrcn

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

Budget Bureau No. 42-R1036.5

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

RECEIVED AUG 25 1958 D.M.E.A.

Month of June, 1958 Docket No. DMEA 4889 Contract No. Idm-R1178
Operator's Name Balboa Mining & Development Co. Minerals Uranium
Address P. O. Box 861, Grand Junction, Colorado
Contract Amount, $ 26,194.00 Government Participation: 50 % Amount, $ 13,097.00

| 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 | 954.03 | None | 954.03 | | | |
| Bulldozing | | | | | | |
| Crosscutting | | | | | | |
| Drifting | | | | | | |
| Fixed unit costs | 301.27 | None | 301.27 | | | |
| (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 | 46.55 | None | 46.55 | | | |
| Payroll Taxes | | | | | | |
| Liability Insurance | | | | | | |
| (8) Contingencies (specify): | | | | | | |
| TOTALS | 1301.85 | | 1301.85 | 1,301.85 | | 1,301.85 |

DMEA
DEPARTMENT OF THE INTERIOR
JUL 14 1958
REGION III
DENVER, COLORADO

RECEIVED
JUL 18 1958
Div. of Mineral Technology
BUREAU OF MINES
Denver Experiment Station
Denver, Colorado

I certify that the above bill is correct and just and that payment therefor has not been received.
Date July 11, 1958 Payee Balboa Mining & Development Co.
Per James Edson Jr. Title Secretary-Treasurer

*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:
$650.92
Signature [illegible] (Authorized Certifying Officer)
Date 8/21/58 Vou. No. DMEA 59-23
(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 1178 in accordance with the terms of the contract.

Signature E. O. Bimson (#650.92) Title Mining Engineer Date August 11, 1958

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE: Checked for Engineering Allowability

Signature [illegible] Title Alternate acting Executive Officer Date AUG 20 1958

# 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.

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

RECEIVED AUG 25 1958 D.M.E.A.

Month of June 1958 Docket No. DMEA 4880 Contract No. Idm-E1178
Operator's Name Balboa Mining and Development Company Minerals Uranium
Address P. O. Box 861, Grand Junction, Colorado

| 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 |
|---|---|---|---|---|---|---|---|---|
| | | | STAGE I | | | | | |
| Rotary, Non-core drill. | ft. | 954.03 | 1255.3 | 954.03 | 1255.3 | 0.76 | 4980 | 2.25 |
| Standby | hr. | 0.00 | 0 | 0.00 | 0 | ---- | 10.5 | 14.00 |
| Chem.Analyses | spl. | 46.55 | 14 | 46.55 | 14 | 3.325 | 105 | 5.00 |
| Incid. Allow. | ft. | 301.27 | 1255.3 | 301.27 | 1255.3 | 0.24 | 4980 | 0.24 |
| | | | STAGE II | | | | | |
| Rotary Non-core drill. | ft. | | | | | | 5000 | 2.25 |
| Standby | hr. | | | | | | 10.5 | 14.00 |
| Chem. Analyses | spl. | | | | | | 10.5 | 5.00 |
| Incid.Allow. | ft. | | | | | | 5000 | |
| Test Pits | | | | | | | | |
| Roads and Trails | | | | | | | | |
| TOTAL DISTRIBUTED COSTS | | 1301.85 | | 1301.85 | | | | TOTAL COSTS AUTHORIZED BY CONTRACT |
| Operating Equipment Purchased | | | | | | | | |
| Initial Rehabilitation and Repairs | | | | | | | | |
| New Buildings, Improvements, etc. | | | | | | | | |
| TOTAL COSTS | | 1301.85 | | 1301.85 | | | | |

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 July 16, 1958 Operator Balboa Mining & Development Co.

Per L. James Elson Jr. Title Secretary-Treasurer

REMARKS:

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

RECEIVED
JUL 18 1958
Div. of Mineral Technology
BUREAU OF MINES
Denver Experiment Station
Denver, Colorado

DMEA
DEPARTMENT OF THE INTERIOR
JUL 17 1958
REGION III
DENVER, COLORADO

## 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

July 11, 1958

Progress Report, June, 1958
Docket No. DMEA 4889 (Uranium)
Contract No. Idm-E1178
Laymon Property
Crook County, Wyoming

**DRILLING PROGRESS:**

A total of 1255.3 feet was drilled during the June reporting period with only 11 days of the period entirely or partially devoted to drilling. Holes 1 through 5 were completed and 201 feet drilled on Hole No. 6. Several serious mechanical breakdowns on the drilling rig accounted for 12 days of lost time early in the month. Operations were temporarily suspended during the last 7 days of June as the result of a death in the family of the driller. Additional delays resulted from the almost daily rain storms. Drilling is scheduled to resume July 11.

**SURVEYING:**

All sites proposed under Phase I were surveyed and staked by a registered Wyoming engineer and the ground elevations determined. Sites No. 11 and 13 were found to fall within a reservoir and a separate proposal to move these has already been submitted. Previous drill holes were marked on the ground where possible.

**GEOLOGY AND MINERALIZATION:**

Hole No. 3 contained the only significant mineralization encountered thus far in the zone between the upper and lower Lakota sands. The reported shale break between these two zones is indistinct in the area drilled so it is difficult to distinguish the upper and lower Lakota sands except through a decrease in grain size and a color change from gray to light brown. All holes drilled have had a trace of mineralization in this zone with the exception of Hole No. 1. Lithologic logs, probe, progress map, and assay results of each hole are enclosed.

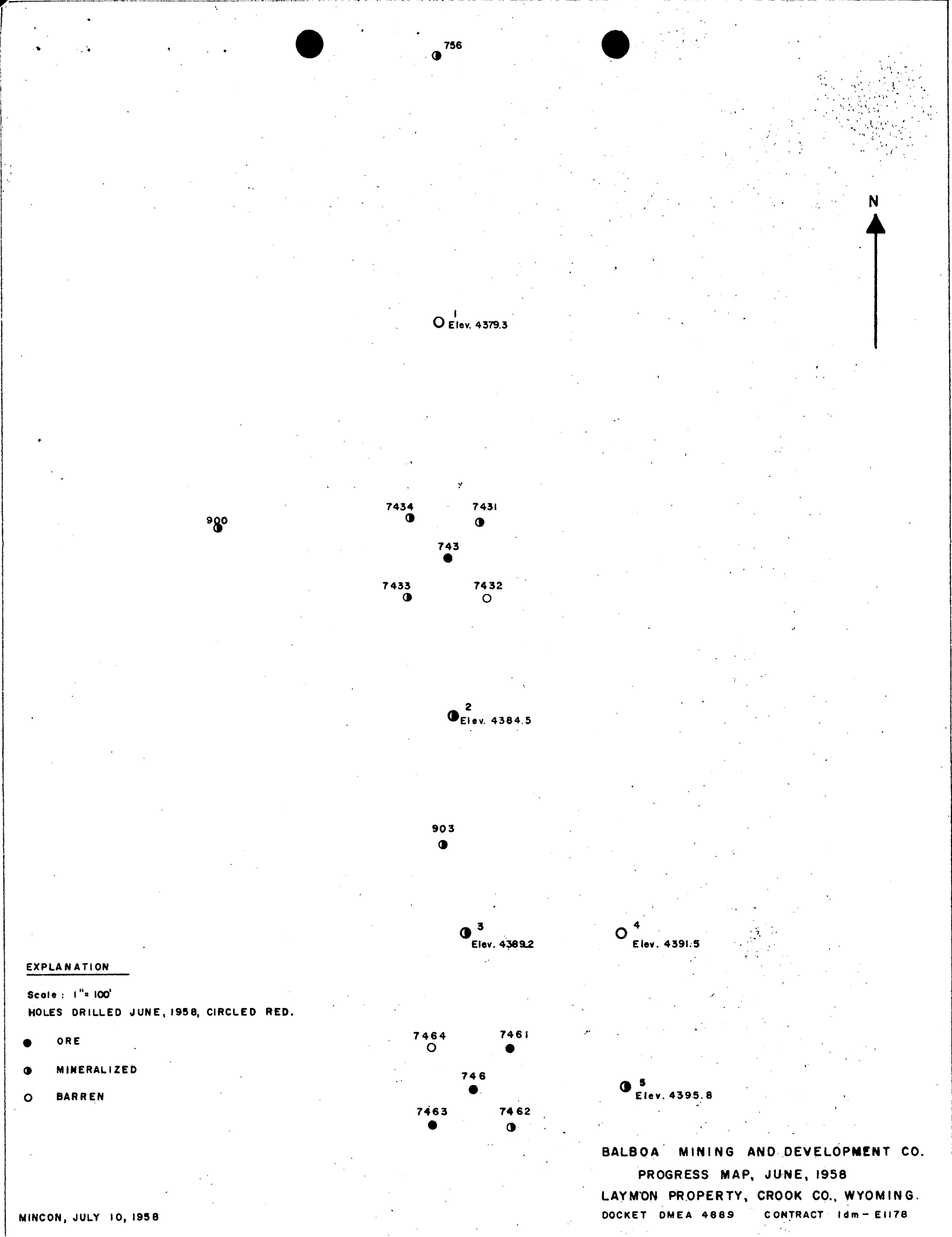
Respectfully submitted

BALDRA MINING AND DEVELOPMENT COMPANY

M. R. Seholl, Jr.

M. R. Seholl, Jr.
Geologist

MRSJr:ep
Encl:


756
N
1
Elev. 4379.3
7434
7431
900
743
7433
7432
2
Elev. 4384.5
903
3
Elev. 4389.2
4
Elev. 4391.5
EXPLANATION
Scale : 1" = 100'
HOLES DRILLED JUNE, 1958, CIRCLED RED.
ORE
MINERALIZED
BARREN
7464
7461
746
5
Elev. 4395.8
7463
7462
BALBOA MINING AND DEVELOPMENT CO.
PROGRESS MAP, JUNE, 1958
LAYMON PROPERTY, CROOK CO., WYOMING.
DOCKET DMEA 4889 CONTRACT Idm-E1178
MINCON, JULY 10, 1958

# MINCON

**GEOLOGIC AND ASSAY LOG** — P. O. BOX 270 — GRAND JUNCTION, COLORADO

Drill-hole No. 1 ( )
Total depth 261.3
Collar elev. T 4379.3 P
Area Balboa - Thorn Ridge - Laymon

~~Map coord (T)~~ DMEA #4889
Map coord (P)
Sec. 27 T. 52 N R. 66 W
Co., State Crook County, Wyoming

Claim Laymon Lease
Date completed 5/31/58 to 6/17/58
Date logged 6/17/58
Logged by Stoick & Edson

Summary of log ; OBSS thick ; SS color ; MS ; Cbn

| FOOTAGE Top | Base | Thick | CORE REC | FIELD EST $U_3O_8$ | $V_2O_5$ | DESCRIPTION Rock | Color | Grain | Access mins | Cbn | M S in S S | Other remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 5.0 | 5.0 | Plug | | | soil | | | | | | |
| | 12.0 | 7.0 | | | | MS/SH | Gy | | Mica Limon | | | |
| | 24.0 | 12.0 | | | | SS | L Gy | F | 16-22 | N | | Some buff SS 12-14' damp |
| | 30.0 | 6.0 | | | | SS | LGy-Gy | F | | | 26-28 L-DGy | 28-30 VFG & lighter Gy Wh |
| | 36.0 | 6.0 | | | | SS | LGy-PGy | F | | | | |
| | 52.0 | 16.0 | | | | SS/SH | LGy | F | Mica;Lim | S | | 44-52 Lim-Tr.Cbn 50-52 |
| | 58.0 | 6.0 | | | | SS | LGy-Gy | F | Gyp,Mica | S | Gy | Lim stained & silty @ base |
| | 94.0 | 36.0 | | | | SH | Gy-DGy | | Pyr ? | | | Tr Pyrite 74-76;Sdy 92-94' |
| | 98.0 | 4.0 | | | | SH/SS | Gy-LGy | F | | | | |
| | 102.0 | 4.0 | | | | SH | Gy-DGy | Sandy | | | | Tr LGySS - 100-102 |
| | 106.0 | 4.0 | | | | SS | LGy | F | S Mica | | DGy | Part well cemented |
| | 114.0 | 8.0 | | | | SH | Gy | Silty | | | | |
| | 116.0 | 2.0 | | | | SS | Gy | F | | | | |
| | 152.0 | 36.0 | | | | SH | L-DGy | Silty-Sdy | | S | | Fn Gy SS 126-130-Cbn 146-152 |
| | 160.0 | 8.0 | | | | SH/SS | L-DGy | F-Silty | Pyrite | | | 158-160 Tr Pyrite |
| | 172.5 | 12.5 | | | | St | Gy | Sandy | A-Pyr | | | |
| 172.5 | 186.0 | 13.5 | | | | SS | LGy-LBuff | F | Fe,Pyr,Mica | S | | Silty @ top, Cbn @ 184-186 |
| 186.0 | 190.0 | 4.0 | | | | No sample - lost circulation | | | | | | |
| 190.0 | 198.0 | 8.0 | | | | SS | DBnGy | F-M | Fe | | | 196-198 coarser-some rounded & frost. |
| 198.0 | 218.0 | 20.0 | | | | ST | Pale Gy | | | S | GnGy | Well sort except sandy top |
| 218.0 | 232.0 | 14.0 | | air to 240' | | ST | LYw Gy | | Lim | | | 224-226 pale gy |
| | 242.0 | 10.0 | | water to TD | | SS | LGy | F | | | | Ang to rounded-poor sort-damp |
| | 255.0 | 13.0 | | | | Cong | LGy-vari | M-C | Ch;Ls,Feld | | | Coarser & darker @ base |
| 255.0 | 261.3 | 6.3 | | | | MS | LGn Gy | | | | | J/Morrison |

| SAMPLE Base | Thick | LAB ASSAY (%) $U_3O_8$* | $V_2O_5$ | $CaCO_3$ | SAMPLE Base | Thick | LAB ASSAY (%) $U_3O_8$* | $V_2O_5$ | $CaCO_3$ | INTERVAL Base | Thick | γ-RAY % $eU_3O_8$ | INTERVAL Base | Thick | γ-RAY % $eU_3O_8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | BARREN to 215' | | |

γ-Ray Log 0 1000

Rev.
Ed.

Hole No. 1

* Assays marked "e" are from lab gamma-ray readings

COLORADO PRINTING CO.

# MINCON

P. O. BOX 270 — GRAND JUNCTION, COLORADO

## GEOLOGIC AND ASSAY LOG

Drill-hole No. 2 ( )
Total depth 282.0
Collar elev. T 4384.5 P
Area Balboa - Thorn Ridge-Laymon

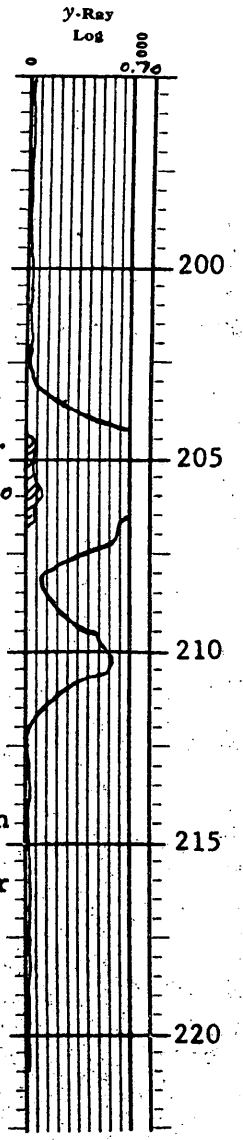
~~Map coord (T)~~ DMEA #4889
Map coord (P)
Sec. 27 T. 52 N R. 66 W
Co., State Crook County, Wyoming

Claim Laymon Lease
Date completed 6/18/58 - 6/19/58
Date logged 6/19/58
Logged by Edson

Summary of log Mineralized ; OBSS 204-258 thick 54.0 ; SS color Gy-Bn Gy ; MS Gy ; Cbn S

| FOOTAGE Top | FOOTAGE Base | FOOTAGE Thick | CORE REC | FIELD EST $U_3O_8$ | FIELD EST $V_2O_5$ | DESCRIPTION Rock | Color | Grain | Access mins | Cbn | M S in S S | Other remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 8.0 | 8.0 | | | | Soil/St | LBn | | Lim | S | | Some "iron stone" 2-4' |
| 8.0 | 14.0 | 6.0 | | | | MS/St | LGy-LYwBn | | " | N-A | | Cbn A @ base |
| | 22.0 | 8.0 | | | | ST | LYwBn | | " | | | Less Lim @ base |
| | 28.0 | 6.0 | | | | ST | LGy | | Tr Lim | S | | Some Cbn @ base |
| | 32.0 | 4.0 | | | | ST | LYw Gy | | | | Gy @ base | |
| | 52.0 | 20.0 | | | | ST/SS | LGy | VF | Mica,Lim | S | | Some stks Cbn & Blk Min |
| | 58.0 | 6.0 | | | | ST/SS | YwGy | VF | Lim,Gyp | A | | Cbn A @ base |
| | 104.0 | 46.0 | | | | SH | Gy-DGy | Silty | Gyp,Mica | | | T/Skull Creek-LGy Sh lam. |
| | 112.0 | 8.0 | | | | ST/SH | LBn Gy | | Mica | | | Nodules hard L Bn St. |
| | 144.0 | 32.0 | | | | ST | Gy-LGy | | Mica | | Gy silty@ | base |
| | 153.0 | 9.0 | | | | ST | LGy | | Mica | | LGy-Gy | |
| 153.0 | 156.0 | 3.0 | | | | SH | Blk | | A Cbn | | | Tr coal |
| | 174.0 | 18.0 | | | | ST | LGy | | | | LGy-Blk | |
| | 184.0 | 10.0 | | | | ST | Gy | | | | DGy stks | |
| | 188.0 | 4.0 | | | | ST/SS | LGy | VF | | | | Gradational T/Lakota |
| | 198.0 | 10.0 | | | | SS | Gy-DGy | VF-M | | | LGy | Silty - poor sorting |
| | 204.0 | 6.0 | | | | ST | Gy | Sdy | Pyr | | Gy | Darker @ base |
| 204.0 | 212.0 | 8.0 | | 0.05 | | SS | Gy-BnGy | Vf-F | Pyr | S | | Silty |
| | 220.0 | 8.0 | | | | SS | LBn | F | | | Gy | Damp @ base |
| | 240.0 | 20.0 | | | | SS | LGy | VF-F | Kaolin @ | base | | Silty-drillw/water 236 on |
| | 246.0 | 6.0 | | | | SS | DGy | F-M | ",Pyr | S-A | Gn | Silty |
| | 258.0 | 12.0 | | | | SS | LGy | F-C | Pyr,Ch,Feld | | None | Coarser @ base w/Fedlspar |
| | 266.0 | 8.0 | | | | Congl | Gy | Sandy | " " | " | | Transition |
| | 276.0 | 10.0 | | | | Congl | Gy | Less SS | | | | |
| 276.0 | 282.0 | 6.0 | | | | MS | DGn Gy | Silty | Pyrite | | | Bentonitic T/Jm |

| SAMPLE Base | SAMPLE Thick | LAB ASSAY (%) $U_3O_8$* | LAB ASSAY (%) $V_2O_5$ | LAB ASSAY (%) $CaCO_3$ | SAMPLE Base | SAMPLE Thick | LAB ASSAY (%) $U_3O_8$* | LAB ASSAY (%) $V_2O_5$ | LAB ASSAY (%) $CaCO_3$ | INTERVAL Base | INTERVAL Thick | γ-RAY % e$U_3O_8$ | INTERVAL Base | INTERVAL Thick | γ-RAY % e$U_3O_8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 206.0 | 2.0 | 0.05 | 0.08 | | | | | | | | | | 207.0 | 2.5 | 0.10 |
| 208.0 | 2.0 | 0.05 | 0.08 | | | | | | | | | | | | |
| 210.0 | 2.0 | 0.02 | | | | | | | | | | | | | |
| 212.0 | 2.0 | 0.04 | 0.06 | | | | | | | | | | | | |




Rev.
Ed.

Hole No. 2

* Assays marked "e" are from lab gamma-ray readings

COLORADO PRINTING CO.

# MINCON

P. O. BOX 270

GRAND JUNCTION, COLORADO

## GEOLOGIC AND ASSAY LOG

Drill-hole No. 3 (.....)

Total depth 240.0

Collar elev. T 4389.2 P

Area Balboa--Thorn Ridge--Laymon

~~Map coord (T)~~ DMEA # 4889

Map coord (P)

Sec. 27 T. 52 N R. 66 W

Co., State Crook County, Wyoming

Claim Laymon Lease

Date completed 6/19/58 - 6/21/58

Date logged 6/21/58

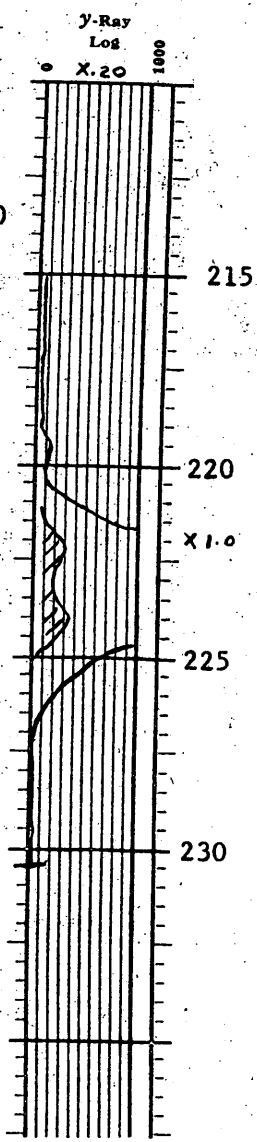
Logged by Edson

Summary of log Mineralized ; OBSS 179.0-227.0 thick 48.0 ; SS color L Gy-D Gy ; MS LGy-DGy ; Cbn S-A

| FOOTAGE Top | FOOTAGE Base | FOOTAGE Thick | CORE REC | FIELD EST $U_3O_8$ | FIELD EST $V_2O_5$ | DESCRIPTION Rock | Color | Grain | Access mins | Cbn | M S in S S | Other remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 12.0 | 12.0 | | | | ST | LYwBn | | Lim | | LGy | Iron stone & darker 8-10 |
| | 14.0 | 2.0 | | | | MS | YwBn-Bn | | Lim | | | |
| | 20.0 | 6.0 | | | | ST | LYwBn | | Lim | | Gy | Gy Sh stks @ base |
| | 30.0 | 10.0 | | | | ST | Yw Bn | | A Lim | Tr | | Cbn stk @ 29 |
| | 54.0 | 24.0 | | | | ST | PaleGy | | | Tr | Gy | Lim @ base--Cbn @ 39'. |
| | 58.0 | 4.0 | | | | ST | DYwGy-Bn | | Lim | | Gy | Darker @ base |
| | 66.0 | 8.0 | | | | ST/SH | DGy | | | A | | Transition |
| 66.0 | 103.0 | 37.0 | | | | SH | DGy | Silty | | A | | Skull Creek |
| | 106.0 | 3.0 | | | | ST | LGy | | Tr Lim | Tr | | |
| | 114.0 | 8.0 | | | | ST/SH | Gy | | | Tr | | |
| | 124.0 | 10.0 | | | | ST | DGy | | | Tr | DGy Silty | Cuttings Damp |
| | 137.0 | 13.0 | | | | ST | Gy | | | Tr | | Grades to Sh @ base |
| | 144.0 | 7.0 | | | | SH | Gy | Silty | | | | |
| | 156.0 | 12.0 | | | | ST | LGy-Gy | | | | Gy @ base | |
| | 179.0 | 23.0 | | | | ST | LGy-Gy | | | Tr | N | Cbn @ 175' |
| 179.0 | 184.0 | 5.0 | | | | SS | LBnGy | VF | Lim | | | T/Lakota |
| | 189.0 | 5.0 | | | | SS | LGy | VF-F | | | | Darker @ base. |
| | 192.0 | 3.0 | | 0.00 | 0.10 | SS | D Gy | F-M | | A | | |
| | 202.0 | 10.0 | | | | SS | Gy-LBnGy | F | | S | S LGy Sh | Silty |
| | 218.0 | 16.0 | | | | SS | Gy-BnGy | F | | S | Tr DGy | Darker @ base |
| | 227.0 | 9.0 | | 0.104 | | SS | D Gy | F-M | Pyr A | A | Tr DGy | Very silty |
| 227.0 | 234.0 | 7.0 | | | | ST | LYwGy | | Lim&Pyr | | | Sdy w/Pyrite @ base |
| | 236.0 | 2.0 | | | | ST/SS | Pale Gy | VF | Kaolin | | | Gradational |
| | 240.0 | 4.0 | | | | SS | Pale Gy | VF | Kaolin Feld. | | | Silty T/Lower Lakota SS |
| | | | | | | | | | | | | Probe to 230.4' |

| SAMPLE Base | SAMPLE Thick | LAB ASSAY (%) $U_3O_8$* | LAB ASSAY (%) $V_2O_5$ | LAB ASSAY (%) $CaCO_3$ | SAMPLE Base | SAMPLE Thick | LAB ASSAY (%) $U_3O_8$* | LAB ASSAY (%) $V_2O_5$ | LAB ASSAY (%) $CaCO_3$ |
|---|---|---|---|---|---|---|---|---|---|
| 224.0 | 2.0 | 0.06 | 0.11 | | | | | | |
| 226.0 | 2.0 | 0.17 | 0.37 | | | | | | |

| INTERVAL Base | INTERVAL Thick | γ-RAY % $eU_3O_8$ | INTERVAL Base | INTERVAL Thick | γ-RAY % $eU_3O_8$ |
|---|---|---|---|---|---|
| | | | 225.0 | 3.5 | 0.23 |




Rev.

Ed.

Hole No. 3

* Assays marked "e" are from lab gamma-ray readings

COLORADO PRINTING CO.

# MINCON

**GEOLOGIC AND ASSAY LOG**

P. O. BOX 270

GRAND JUNCTION, COLORADO

Drill-hole No. 4 ( )

Total depth 232

Collar elev. T 4391.5 P

Area Balboa--Thorn Ridge--Laymon

~~Map coord (T)~~ DMEA #4889

Map coord (P)

Sec. 27 T. 52 N R. 66 W

Co., State Crook County, Wyoming

Claim Laymon Lease

Date completed 6/21/58 - 6/21/58

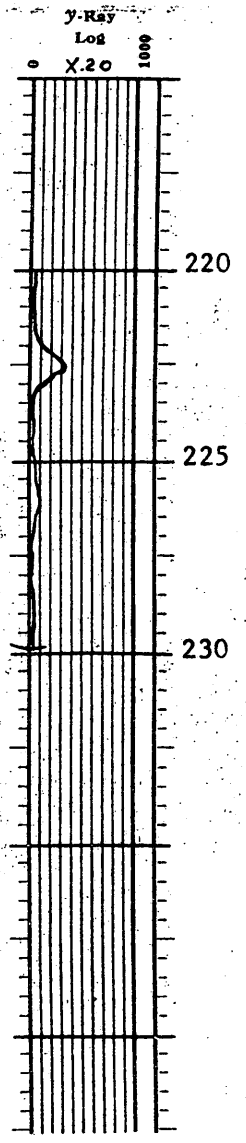
Date logged 6/21/58

Logged by Edson

Summary of log Favorable ; OBSS 188-223 thick 35' ; SS color LG- Dgy ; MS Gy ; Cbn A

| FOOTAGE Top | FOOTAGE Base | FOOTAGE Thick | CORE REC | FIELD EST $U_3O_8$ | FIELD EST $V_2O_5$ | DESCRIPTION Rock | Color | Grain | Access mins | Cbn | M S in S S | Other remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 2.0 | 2.0 | | | | soil | D Bn | | | | | |
| | 12.0 | 10.0 | | | | ST | DYw Bn | | | | Tr LGy | |
| | 24.0 | 12.0 | | | | ST | Yw Bn | | | | | L Gy Sh @ top |
| | 31.0 | 7.0 | | | | ST | DYw Bn | | A Lim | | | |
| | 34.0 | 3.0 | | | | ST | L Gy | | Tr Lim | Tr | | |
| | 37.0 | 3.0 | | | | ST | Gy-DGy | | Tr Pyr | A | | |
| | 59.0 | 22.0 | | | | ST | LGy | | A Lim | | | Dk Yw Gy @ base |
| | | | | | | | | | | | | A Lim 46-47 |
| 59.0 | 104.0 | 45.0 | | | | SH | DGy | Silty | | A | | T/Skull Creek - fissile |
| | 144.0 | 40.0 | | | | ST | LGy-DGy | | | | Gy | Sh A @ base |
| | 148.0 | 4.0 | | | | ST | LGy | | | | | Fissile |
| | 152.0 | 4.0 | | | | ST | LGy | | | | LGy | |
| | 154.0 | 2.0 | | | | ST | DGy | | | S | LGy | |
| | 188.0 | 34.0 | | | | ST | LGy-LBnGy | | | | Gy | Sandy @ base-gradational |
| 188.0 | 196.0 | 8.0 | | | | SS | Gy | VF | Silty | A | | T/Lakota |
| | 216.0 | 20.0 | | | | SS | LGy-DGy | VF | V Silty | A | Gy @ base | A Cbn @ base |
| | 223.0 | 7.0 | | 0.07 | | SS | LGy-DGy | VF | Silty | | | Min @ base |
| | 232.0 | 9.0 | | | | ST | Pale Bn | | | | Gy Sh | |

| SAMPLE Base | SAMPLE Thick | LAB ASSAY (%) $U_3O_8$* | LAB ASSAY (%) $V_2O_5$ | LAB ASSAY (%) $CaCO_3$ | SAMPLE Base | SAMPLE Thick | LAB ASSAY (%) $U_3O_8$* | LAB ASSAY (%) $V_2O_5$ | LAB ASSAY (%) $CaCO_3$ | INTERVAL Base | INTERVAL Thick | γ-RAY % $cU_3O_8$ | INTERVAL Base | INTERVAL Thick | γ-RAY % $cU_3O_8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 224.0 | 2.0 | 0.01 | 0.05 | | | | | | | | | | 222.5 | 0.5 | 0.04 |




Rev.

Ed.

Hole No. 4

* Assays marked "e" are from lab gamma-ray readings

COLORADO PRINTING CO.

# MINCON

**GEOLOGIC AND ASSAY LOG**

P. O. BOX 270

GRAND JUNCTION, COLORADO

Drill-hole No. 5 ( )

Total depth 240.0

Collar elev. T 4395.8 P

Area Balboa--Thorn Ridge--Laymon

~~Map coord (T)~~ DMEA #4889

Map coord (P)

Sec. 27 T. 52 N R. 66 W

Co., State Crook County, Wyoming

Claim Laymon Lease

Date completed 6/22/58 - 6/22/58

Date logged 6/22/58

Logged by Edson

Summary of log Mineralized ; OBSS 188.0-240.0 thick 52.0+ ? ; SS color Bn Gy ; MS Gy ; Cbn N-A

| FOOTAGE Top | Base | Thick | CORE REC | FIELD EST $U_3O_8$ | $V_2O_5$ | DESCRIPTION Rock | Color | Grain | Access mins | Cbn | M S in S S | Other remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 2.0 | 2.0 | | | | Soil | Bn | | | | | |
| | 12.0 | 10.0 | | | | ST | DYw Bn | | A Lim | Tr | | Some Iron stone |
| | 14.0 | 2.0 | | | | ST | DYw Bn | | | A | Gy | Gy Sh @ base |
| | 30.0 | 16.0 | | | | ST | LYw Bn | | A Lim | | | Darker @ 27'-Gyp @ 29' |
| | 36.0 | 6.0 | | | | ST | Pale Gy | | | | | |
| | 59.0 | 23.0 | | | | ST | LYwGy | | S Lim | S | | More Lim & Cbn @ base |
| 59.0 | 104.0 | 45.0 | | | | SH | D Gy | Fissile | | A | LGy Lam | Silty- T/Skull Creek |
| | 106.0 | 2.0 | | | | ST | LGy-LBn | | | | Gy | |
| | 114.0 | 8.0 | | | | ST/SH | Gy | | | | | |
| | 146.0 | 32.0 | | | | ST | Gy | | | Tr | Gy | |
| | 176.0 | 30.0 | | | | ST | LGy-DGy | | | Tr | LGy | |
| | 182.0 | 6.0 | | | | ST | Gy | | Lim-Pyr | A | | Cbn A @ top |
| | 188.0 | 6.0 | | | | ST | LGy | Sdy | | | | LBnGy @ base - grades |
| 188.0 | 209.0 | 21.0 | | Tr | | SS | RBn-Gy | VF | Pyr | A | | V silty - T/Lakota |
| | 210.0 | 1.0 | | | | SS | Bn | | Lim A | N | | |
| | 220.0 | 10.0 | | Tr | | SS | Gy-DGy | VF-F | Lim,Pyr | S | Gy @ 215 | Min 212-214 |
| | 224.0 | 4.0 | | | | SS | LYwBn | VF-F | Lim | N | Tr Gy | |
| | 240.0 | 16.0 | | | | SS | LBn | VF | | N | | Little sample below 228' |
| | | | | | | | | | | | | lost air circ. |
| | | | | | | | | | | | | Probed to 235.0' |

| SAMPLE Base | Thick | LAB ASSAY (%) $U_3O_8$* | $V_2O_5$ | $CaCO_3$ | SAMPLE Base | Thick | LAB ASSAY (%) $U_3O_8$* | $V_2O_5$ | $CaCO_3$ | INTERVAL Base | Thick | γ-RAY % $eU_3O_8$ | INTERVAL Base | Thick | γ-RAY % $eU_3O_8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 182.0 | 2.0 | 0.02 | 0.03 | | | | | | | | | | 181.0 | 0.5 | 0.05 |
| 192.0 | 2.0 | 0.016 | | | | | | | | | | | 196.0 | 4.5 | 0.09 |
| 194.0 | 2.0 | 0.05 | 0.05 | | | | | | | | | | 214.0 | 6.0 | 0.08 |
| 196.0 | 2.0 | 0.08 | 0.11 | | | | | | | | | | | | |
| 210.0 | 2.0 | 0.015 | 0.03 | | | | | | | | | | | | |
| 212.0 | 2.0 | 0.04 | | | | | | | | | | | | | |
| 214.0 | 2.0 | 0.07 | 0.11 | | | | | | | | | | | | |

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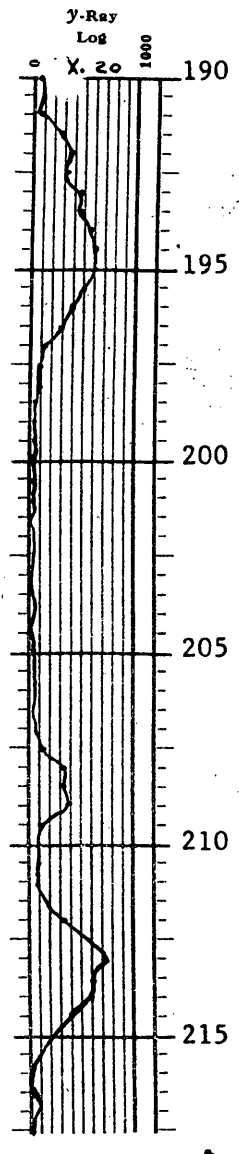


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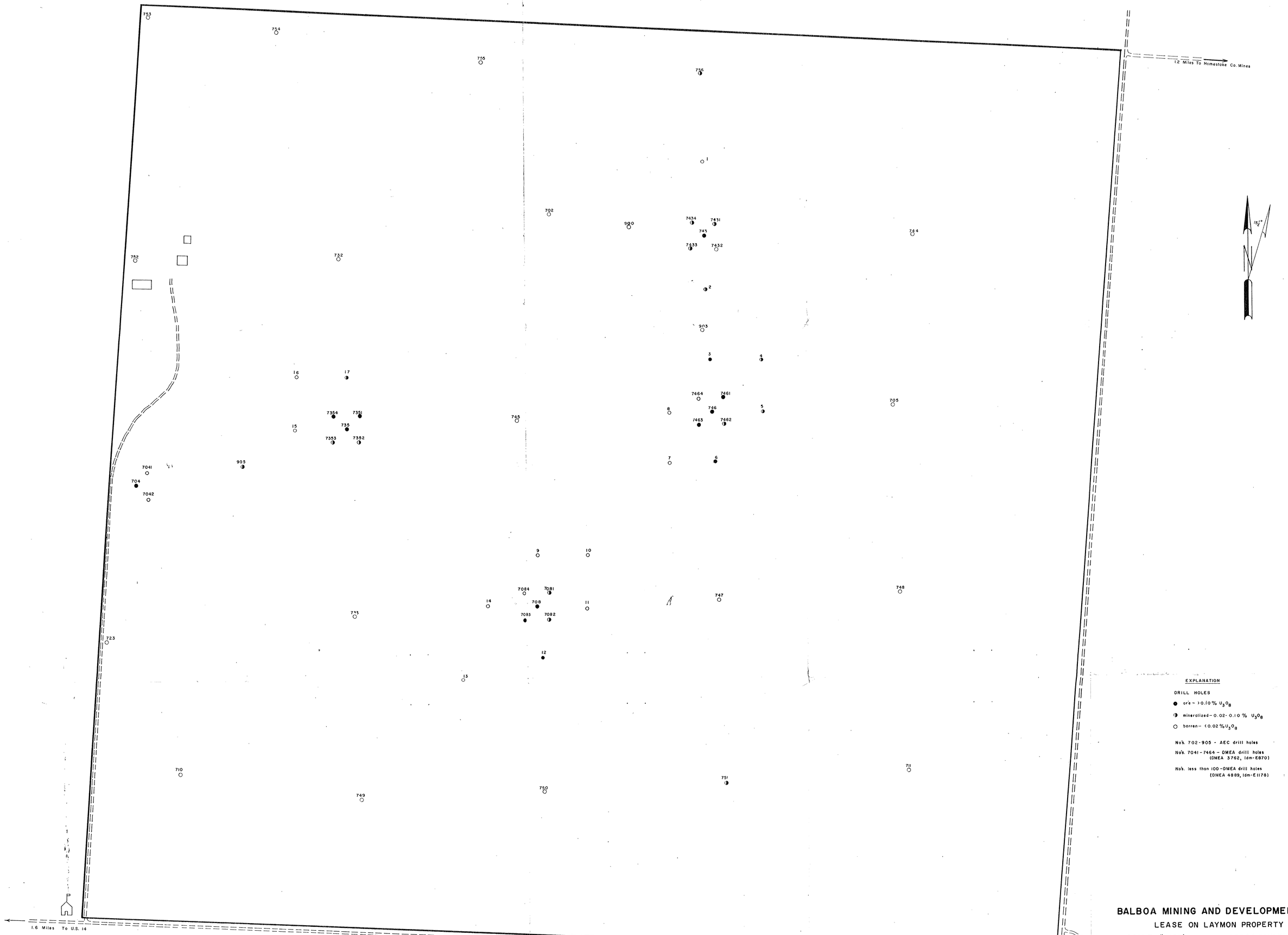



EXPLANATION

DRILL HOLES

● ore - >0.10% $U_3O_8$

◑ mineralized - 0.02-0.10 % $U_3O_8$

○ barren - <0.02% $U_3O_8$

No's. 702-905 - AEC drill holes

No's. 7041-7464 - OMEA drill holes (OMEA 3762, Idm-E870)

No's. less than 100 - OMEA drill holes (OMEA 4889, Idm-E1178)

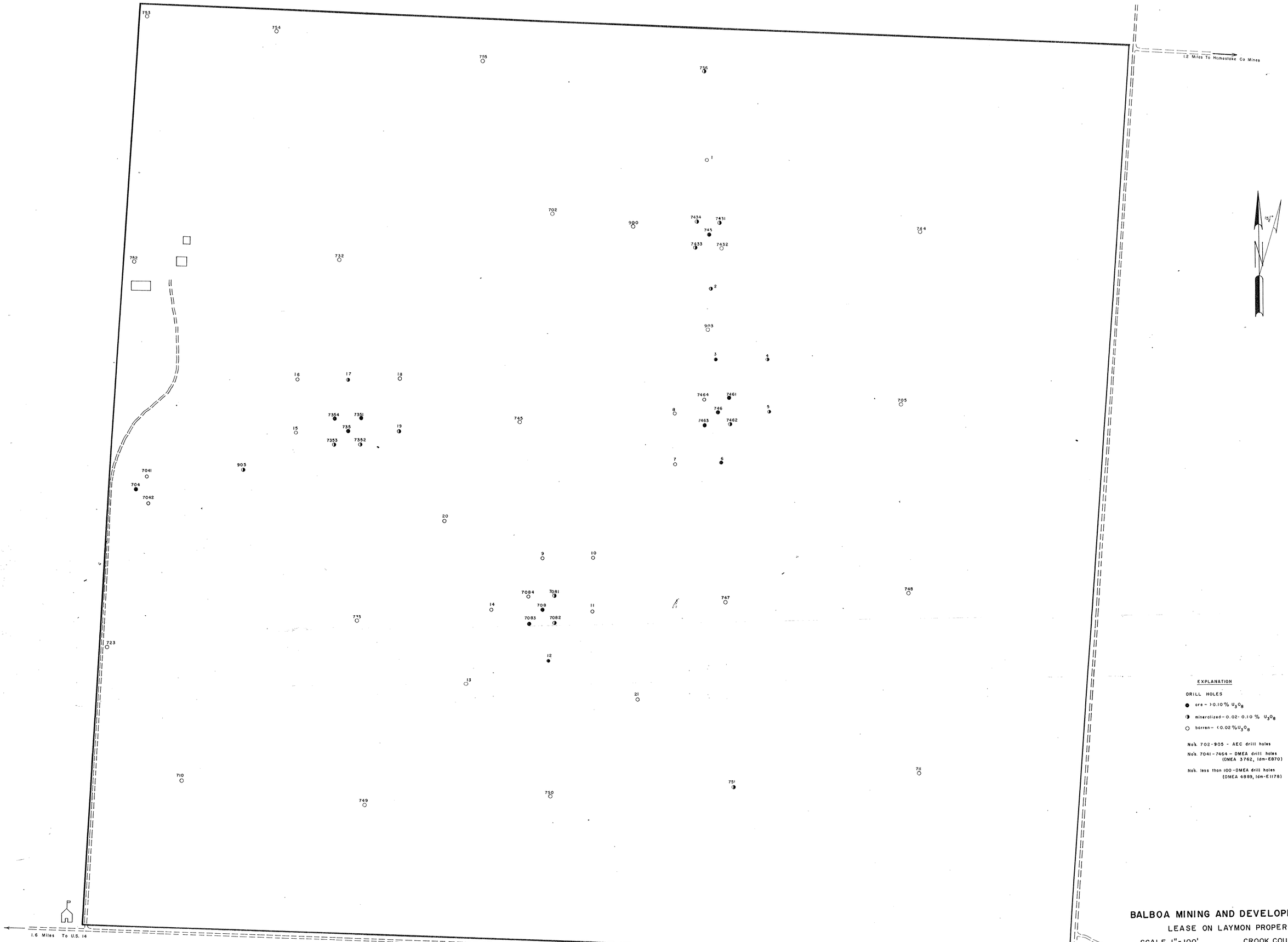
# BALBOA MINING AND DEVELOPMENT CO.

LEASE ON LAYMON PROPERTY

SCALE 1" = 100'  CROOK COUNTY, WYO.

W 1/2 NE 1/4, AND E1/2NW1/4, — T.52N., R.66W., Sec 27

PROGRESS MAP, 8/1/58

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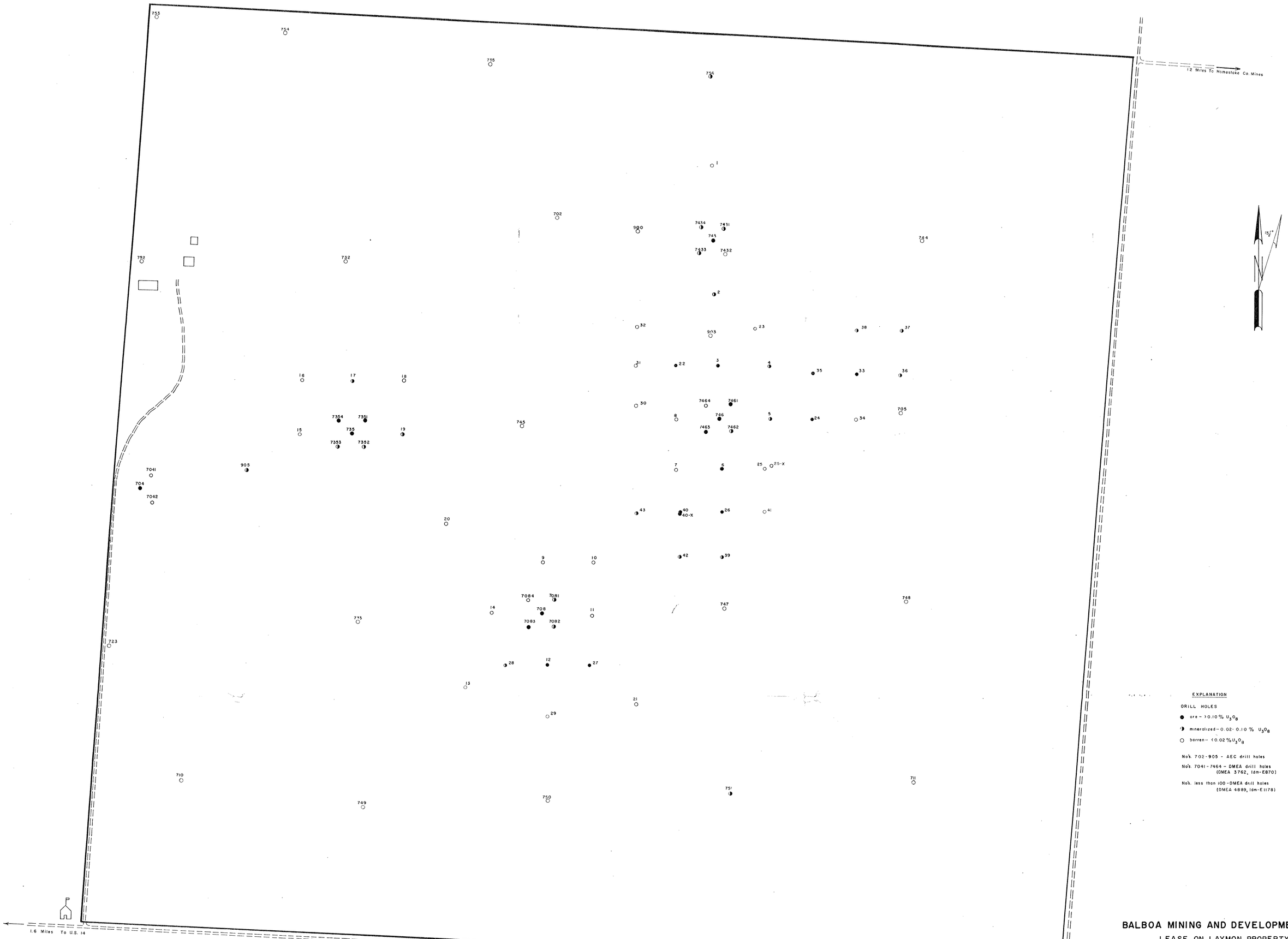
Progress Map 4/1/58

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PROGRESS MAP — DMEA 4889

NOV , 1958
DEC