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

September 21, 1962

Re: DMEA-2768 (Uranium)
Mining Research Corp.
Lion Group of Claims, et al.
Fall River County, S. D.
Contract Idm-E520

Mr. Roy Chamberlin

Lusk, Wyoming

Dear Mr. Chamberlin:

After the completion of the approved exploration work under the contract identified above, we asked to be informed about changes in the status of the property and production from it during the period of royalty obligation.

To assist you to furnish this information and to assure the accuracy of our records, please answer the questions on the back of this letter and return two copies to this office with copies of any pertinent documents.

Sincerely yours,

W. R. Griswold, Chief
Division of Minerals

OFFICIAL FILE COPY
O. M. E.
RECEIVED OCT 8 1962

DATE	INITIALS	CODE
10/8		800
10/8		100
10/8		110
10/9	Returned	500
10/9	Murphy	
		220

FMM

MME Form 63
Revised 3-62

DMEA-2768
Idm-E520

REQUEST FOR INFORMATION ON CERTIFIED PROJECT AND PROJECT UNDER ROYALTY AGREEMENT

1. Since July 1, 1961 , has there been a change in ownership, lease, or sublease? If yes, please state details of the transaction below and provide a true or signed copy of the pertinent documents, unless they have been provided before. Yes ☐ No ☑

2. Since July 1, 1961 , has there been any production from the land subject to the contract? Yes ☐ No ☑

   A. If so and it was shipped, give quantity, value, and name and address of purchaser.

	Quantity	Value

   B. If stockpiled awaiting sale, state quantity, grade, and location.

Type	Quantity	Estimated Grade	Location
Ore	Tons		
Concentrates	Tons		
Other	Tons		

3. Since July 1, 1961 , has any production been transported through workings (see of contract)? Yes ☐ No ☑

   A. If so, state quantity, value, and disposition of material.

Disposition of Material	Quantity	Value

Submitted by:

Name Roy Chamberlain Title Owner

Address Lusk, Wyo. Date 10/1/62

4511

MME Form 18
10-60

OFFICE OF MINERALS EXPLORATION

ANALYSIS OF ANNUAL REPORT
OF CERTIFIED PROJECT OR PROJECT UNDER ROYALTY AGREEMENT

Division of Minerals prepares in duplicate, files original in official docket, and sends copy -

To: (1) Code 110 (for verification or adjustment)
(2) Code 210

			Report Period 12-31-59-1-1-61
Docket No. DMEA-2768	Operator. Mining Research Corp.		Contract No. Idm-E 520
ORE ESTIMATES	Original DMEA or OME (From Final Report)	Revised DMEA or OME	Found by Operator after DMEA-OME work
Analysis	0.115% U_3O_8 - 0.156% V_2O_5		—
Tons Found	27,590		
Tons Produced (Ore or Concentrate) DRY	6,479.722		
Previously Reported Dry	6196.920	0.189% U_3O_8	
This Period Dry	282.802	0.145% U_3O_8	
Tons Remaining	21110.278		

Comments of Analyst:

Prepared by [signature] Date 3/31/61

82444-60

MME Form 64
Aug. 60

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

ANNUAL REPORT OF CERTIFIED PROJECT
OR PROJECT UNDER ROYALTY AGREEMENT

From: Acting Field Officer Region III

Signature: Hugh M. Connors

Date: March 27, 1961

To: Director, Office of Minerals Exploration

Concerning: Idm E520
Docket No. DMEA 2768

Commodity Uranium

Operator Mining Research

Property Gull Lease et al.

Location Fall River Co., So. Dakota

Period Covered by this Report	Through 12-31-60		
ORE ESTIMATES	Original DMEA or OME (From Final Report)	Revised DMEA or OME	Found by Operator after DMEA-OME work
Analysis	69,008 tons 0.136 U_3O_8		
Tons Found			
Tons Produced (Ore or ~~Concentrate~~)	~~4,839.071~~ error	should be	6479.722 dry tons
Previously Reported			
This Period			
Tons Remaining			

Source of Information - Visit ☐ Date of Examination _____ Correspondence ☐
Other (specify) AEC records

Current status of property - Operating ☐ Closed ☐ Abandoned ☐

Changes in ownership (describe and attach pertinent documents if not submitted before).

Remarks: (Include information on stockpiled ore and delinquent royalties.)

Our royalty cards check with the production shown by AEC for 1960.

Submit this form (original only) to report data each year. No report is required for projects inactive during the entire year.

79363-60

DMEA Form 18
Feb. 58

DEFENSE MINERALS EXPLORATION ADMINISTRATION

ANALYSIS OF SEMIANNUAL REPORT OF CERTIFIED PROJECT

Prepare in duplicate. File original in Official Docket. Send copy

To: Statistics Branch (Code 210)

From: Division of Minerals

Report Period 1/1/59 thru 12/31/59

DMEA No.	Operator	Contract No.
2768	Mining Research Corp.	E 520

ORE ESTIMATES

	Tons	Analysis U_3O_8	Percent V_2O_5
DMEA	27,590	0.115	0.156
Operator to date	—		
Total	27,590		
Production to date	6,293.959 [1]	0.185	
Ore in ground	21,296.041	0.115	0.156

INVESTMENT

Type	Size		Feet	Cost
Shafts				
Winzes				
Drifts and Crosscuts				
Raises				
Drilling	Type			
Rehabilitation	Description			

FACILITIES

Mine Plant		
Mill		
Roads		

REMARKS

[1] see letters re royalties due the Government.

[2] Exact Figure 6196.920 dry tons - 0.189% U_3O_8

Prepared by Murray Ray Date 4/26/60

31398

Rec'd. Ch. O. 4/11/60
~~Murphy~~
225

Annual
~~XXXXXXXX~~ Report of Certified Projects

Reporting Period January 1, 1959 through December 31, 1959

Docket and Contract Number DMEA 2768 - Idm-E520

Operator Mining Research Corporation

Commodity Uranium

Mine Name Gull Lease - Sheep Canyon - Lion claims

County and State Fall River County, South Dakota

Date of Contract May 14, 1953

Date of Certification February 13, 1957

Expiration Date of Royalty Payments May 14, 1965

Date of Examination for this Report March 31, 1960

Total Amount of Contract $52,873.00

Total Expenditures under Contract $22,861.95

Amount of Government Participation at 90 % $18,936.31

Royalty Payments this Period $3215.00

Previous Royalty Payments $1862.33

Total Royalty Payments to Date $5077.33

% Loan Repayment Completed 26.81%

Follow-up letter to Gull's lawyer written 4/20/60

Amount of Royalty Due $763.87 in bonus royalty plus royalty due on a

~~Royalty Remarks~~ shipment from Lion No. 1 claim made during February 1960. Copies of settlement sheets for this liquidation have been requested from the mill. The shipment was made by Mathew J. Brown, who is the Chief of Police of Edgemont, South Dakota.

		Tons	Analysis U308 %
Original Estimate of DMEA Reserve (Field Team Final Report) Mines ☐ Survey ☐ Joint ☐	Indicated	23,890	0.139
Revised Estimate of DMEA Reserves (Field Team) Mines ☐ Survey ☐ Joint ☐	Inferred	45,118	0.135
		69,008	0.136
Increase of Reserves by work performed subsequent to DMEA project work			
Production DMEA ore	(This period)	2,538.977	
	(Previous)	3,754.982	
	(To Date)	6,293.959	23,371.55 pounds U308
" Operator's ore found subsequent to DMEA work	(This period)		
	(Previous)		Avg 0.185% U308
	(To Date)		

Percent Revised Reserves Mined _____

(For Uranium Ores Only)

Initial Production Bonus:

Status of Operator: Ineligible ☐ Applied for ☐ Rec'ing pmt ☐ Paid up ☐

Pounds U_3O_8 produced this period eligible for Bonus _____

Amount of Bonus paid to Operator this period $ _____

Total pounds U_3O_8 produced to date eligible for Bonus 10,000

Total amount of Bonus paid to Operator to date $ 15,370.63

Bonus Royalty Paid $ _____

Bonus Royalty Due $ 763.87

Investment Data

Shafts			Winzes			Drifts & Crosscuts		
Size	Feet	Cost	Size	Feet	Cost	Size	Feet	Cost

Raises			Drilling			Rehabilitation	
Size	Feet	Cost	Type & Size	Feet	Cost	Description	Cost

Facilities

Mine Plant		Mill		Roads	
Description	Cost	Description	Cost	Description	Cost

Remarks

As of March 31, 1960 the only known ore reserves are on the Lion No. 1 claim which is not being worked because the ore is too low grade.

Signed H. M. Connors (Engineer)
H. M. Connors

DMEA Form 18
Feb. 58

DEFENSE MINERALS EXPLORATION ADMINISTRATION

ANALYSIS OF SEMIANNUAL REPORT OF CERTIFIED PROJECT

Prepare in duplicate. File original in Official Docket. Send copy

To: Statistics Branch (Code 210)

From: Division of Rare and Miscellaneous Metals

Report Period 7/1/58-12/31/58

DMEA No.	Operator	Contract No.
2768	Mining Research Corporation	Idm-E520

ORE ESTIMATES

	Tons	Analysis
DMEA	27,590	0.115% U_3O_8 + 0.156% U_2O_5
Operator to date	1,737,695	0.165% U_3O_8 + 0.156% U_2O_5
Total		
Production to date	3,754.982	0.17% U_3O_8 + 0.16% U_2O_5
Ore in ground		

INVESTMENT

Type	Size		Feet	Cost
Shafts				
Winzes				
Drifts and Crosscuts				
Raises				
Drilling	Type			
Rehabilitation	Description			

FACILITIES

Mine Plant		
Mill		
Roads		

REMARKS Approximately 200 tons of ore grade material stock piles - grade not reported.

Prepared by Kraus Date 4-16-59

3139

OFFICIAL FILE COPY
O. M. E.
RECEIVED APR 13 1959

DATE	INITIALS	CODE
4/13	C	220
"	[illegible]	110
"	CEB	800
4/14	[illegible]	700

UNITED STATES
DEPARTMENT OF THE INTERIOR
Office of Minerals Exploration
224 New Customhouse
Denver 2, Colorado
April 7, 1959

Memorandum

To: Chairman, Operating Committee, OME

From: Executive Officer, OME Field Team, Region III

Subject: Semiannual Report of Certified Project for the period July 1, 1958 through December 31, 1958

DMEA Docket 2768 (Uranium)
Contract Idm-E520 (Gull Lease-Sheep Canyon et al claims)
Mining Research Corporation
Fall River County, South Dakota

Enclosed are the original and three copies of the subject report prepared in conformance with instructions contained in memorandum of January 6, 1956 from this office, Memorandum 29, and Special Notice in Minutes of Operating Committee Meeting No. 692.

J. W. Townsend

Enclosures
HMC/ff

cc: Semiannual Report File Idm-E520
Harshman
Marshall
Chron.

Semi-Annual Report of Certified Projects

Reporting Period	July 1, 1958 through December 31, 1958
Docket and Contract Number	DMEA 2768 - Contract Idm-E520
Operator	Mining Research Corporation
Commodity	Uranium
Mine Name	Gull Lease-Sheep Canyon et al claims
County and State	Fall River County, South Dakota
Date of Contract	May 14, 1953
Date of Certification	February 13, 1957
Expiration Date of Royalty Payments	May 14, 1965
Date of Examination for this Report	March 24, 1959
Total Amount of Contract	52,873.00
Total Expenditures under Contract	22,861.95
Amount of Government Participation at 90 %	18,936.31
Royalty Payments this Period	none
Previous Royalty Payments	1862.33
Total Royalty Payments to Date	1862.33
% Loan Repayment Completed	9.83 percent
Amount of Royalty Due	See attached sheet
Royalty Remarks	Request for evidence of sale on unreported production made by Executive Officer, March 30, 1959.

		Tons	U_3O_8 Analysis
Original Estimate of DMEA Reserve (Field Team Final Report) Mines [ ] Survey [ ] Joint [x]	Indicated:	23,890	0.139
	Inferred:	45,118	0.135
Revised Estimate of DMEA Reserves (Field Team) Mines [ ] Survey [ ] Joint [ ]		69,008	0.136

			Percent U_3O_8	Percent V_2O_5
Increase of Reserves by work performed subsequent to DMEA project work				
Production DMEA ore	(This period)	2017.287	*	*
	(Previous)	1737.695	0.17	0.16
	(To Date)	3754.982	*	*
" Operator's ore found subsequent to DMEA work	(This period)			
	(Previous)			
	(To Date)			

Percent Revised Reserves Mined _____

* To be established upon receipt of requested settlement sheets.

(For Uranium Ores Only)

Initial Production Bonus:

Status of Operator: Ineligible [ ] Applied for [ ] Rec'ing pmt [X] Paid up [ ]

Pounds U_3O_8 produced this period eligible for Bonus _____

Amount of Bonus paid to Operator this period $_____

Total pounds U_3O_8 produced to date eligible for Bonus _____

Total amount of Bonus paid to Operator to date $_____

Bonus Royalty Paid $_____

Bonus Royalty Due $_____

Investment Data

Shafts Size	Shafts Feet	Shafts Cost	Winzes Size	Winzes Feet	Winzes Cost	Drifts & Crosscuts Size	Drifts & Crosscuts Feet	Drifts & Crosscuts Cost

Raises Size	Raises Feet	Raises Cost	Drilling Type & Size	Drilling Feet	Drilling Cost	Rehabilitation Description	Rehabilitation Cost

Facilities

Mine Plant Description	Mine Plant Cost	Mill Description	Mill Cost	Roads Description	Roads Cost

Remarks

See attached sheet.

Signed [signature] (Engineer)

REMARKS

Olin Hart, Chief, Edgemont Section, AEC, Edgemont, South Dakota, unofficially informed the examining engineer that

Montana Chemical and Milling Company
P. O. Box 1058
Edgemont, South Dakota

is leasing property which includes land subordinated to the Government under DMEA contract Idm-E520. Further, production is being made from the subordinated land.

Mines Development Inc., mill at Edgemont reported the following production from subordinated land, during report period, tonnage of which is confirmed by AEC records:

Liq. No.	Date 1958	Dry Tons	percent U_3O_8
1231	9-3	44.298	0.10
1241	9-16	120.744	0.27
1247	9-23	117.828	0.26
1257	9-27	31.124	0.18
1260	10-3	189.998	0.19
1261	10-4	92.501	0.17
1297	10-27	185.232	0.22
1308	10-29	185.446	0.23
1311	10-30	95.045	0.20
1322	11-17	94.077	0.23
1330	11-21	96.942	0.26
1337	11-25	191.936	0.19
1350	12-2	186.040	0.24
1352	12-23	105.506	0.26
1377	12-23	90.134	0.32
1370	12-20	190.416	0.20
	Total	2017.287	

There is no stockpiling as such on the property. Mineralized material is stored briefly in small lots prior to shipment. The arrangement of the lots indicates that the ore is blended as it is loaded in trucks for mill delivery. At the time of inspection the lots represented approximately 200 tons of material.

25th New Customhouse
Denver 2, Colorado

October 15, 1958

2768

Memorandum

To: Chairman, Operating Committee, OME

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

Subject: Certified projects inactive during reporting period, January 1, 1958 - June 30, 1958

Enclosed is a list of certified projects whose status has not changed since the previous semiannual report.

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

Enclosure

HMC:jy

cc: Semiannual Report File - General
Harshman
OME/DFC - Bizyon (2)
Chron.

700

copy to W.N.
O'Leinberger
10/20/58

OME
DEPARTMENT OF THE INTERIOR
SEP 29 1958
REGION III
DENVER, COLORADO

DMEA, REGION III

Statement in Lieu of Semiannual Report

Reporting Period January 1 - June 30, 1958
Docket and Contract Number
Operator

The project has been inactive during the reporting period [X]

Pertinent data relative to the subject contract has remained unchanged since the last report [ ]

Remarks:

Contract Idm-E	Docket	Operator	County & State	Commodity
520	✓ 2768	Mining Research Corp.,	Fall River County, S. Dak.	Uranium
870	3762	Shannon Oil Company,	Crook County, Wyo.	"
963	4182	Vitro Minerals Corp.,	Fremont County, Wyo.	"

Signed E O Binyon
E. O. Binyon

Date September 25, 1958

DEFENSE MINERALS EXPLORATION ADMINISTRATION

Rare and Misc. Metals Division Date February 28, 1958

Semi-Annual Report - Certified Project Period 7/1/57 to 12/31/57

DMEA No. 276 8 Operator Mining Research Corp. Contract No. Idm-E 520

Ore Reserves

Ore Estimates	Tons	Analysis
Original (DMEA)	27,590	0.115% U_3O_8
Increase (Operator)	1737.695	0.165% U_3O_8 + 0.156% V_2O_5
Total		
Decrease (Production)	1737.695	0.165% U_3O_8 + 0.156% V_2O_5
Net Available		

Investment

Open Pit Excavation

~~Shafts~~

Size	Feet	Cost
305'x20'x30'		

6,777 cu.yds. @ $2.00/yd.
equals $13,554.00 investment

~~Raises~~

Winzes

Size	Feet	Cost

Drifts & Crosscuts

Size	Feet	Cost

Drilling

Size	Feet	Cost

Type & Size | Feet | Cost

Mine Equipment ~~Rehabilitation~~

Description	Cost
	** $67,000.00

** Open Cut. $115,715.00

Facilities

Mine Plant

Description	Cost

Mill

Description	Cost

Roads

Description	Cost

Remarks

Project has been inactive. No ore was mined or found during the reporting period.

* Est. by F.L.K.
** See report last period.

F. L. Knouse

100338

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration
224 New Customhouse
Denver 2, Colorado

February 24, 1958

OFFICIAL FILE COPY
DMEA
RECEIVED FEB 26 1958

DATE	INITIALS	CODE
2/26	C	220
27	Com	100
"	[illegible]	110
"	[illegible]	800
2/28	[illegible]	700

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Semiannual Report of Certified Project for the period July 1, 1957 to December 31, 1957

DMEA Docket 2768 (Uranium)
Contract Idm-E 520, Mining Research Corp. (Railroad Cut-Gull-Sheep Canyon) Fall River County, S. D.

Enclosed are the original and three copies of the subject report prepared in conformance with instructions contained in memorandum of January 6, 1956 from this office, Memorandum 29, and Special Notice in Minutes of Operating Committee Meeting No. 692.

Executive Officer, DMEA
Field Team, Region III

Enclosures
MHM:jy

cc: Semiannual Report File E 520
Harshman
DMEA,DFC (2)
Chron.

DMEA
DEPARTMENT OF THE INTERIOR
FEB 13 1958
REGION III
DENVER, COLORADO

DMEA, REGION III

Statement in Lieu of Semiannual Report

Reporting Period	July 1 - December 31, 1957
Docket and Contract Number	Docket No. 2768, Contract Idm-E520
Operator	Mining Research Corporation
	Fall River County, S. D.

The project has been inactive during the reporting period [X]

Pertinent data relative to the subject contract has remained unchanged since the last report [ ]

Remarks:

A pit 305 feet in length, 20 feet wide and 30 feet deep at the deepest part has been dug on the Lion No. 8 claim. Apparently no one was mined from the pit.

6777 yds³ @ $2.00/yd³ = $13,554.00 investment
J. H.
2-28-58

Signed E O Binyon Date

E. O. Binyon 2/10/58

DEFENSE MINERALS EXPLORATION ADMINISTRATION

Rare & Miscellaneous Metals Division — Date Sept. 23, 1957

Semi-Annual Report - Certified Project — Date 1/1/57 thru 6/30/57

DMEA No. 2768 — Operator Mining Research Corp. — Contract No. Idm-E 520

Ore Reserves

Ore Estimates	Tons	Analysis
Original (DMEA)	27,590	0.115% U_3O_8
Increase (Operator)	*1737.695	0.167% U_3O_8 + 0.156% V_2O_5
Total		
Decrease (Production)	*1737.695	0.169% U_3O_8 + 0.156% V_2O_5
Net Available		

Investment

Shafts

Size	Feet	Cost

Reinforcing ~~Winzes~~

Size	Feet	Cost

** 200' long x 100' deep x 80-100' wide
Lost Canyon
$115,715.00 (Est.)

Drifts & Crosscuts

Size	Feet	Cost

Raises

Size	Feet	Cost

Drilling

Type & Size	Feet	Cost

Mine Equipment ~~Rehabilitation~~

Description	Cost
G.D. Compressor 125 cfm, Tractor, Loader, Pickup Truck, 2 Dump Trucks, Compressor 210 cfm	$67,000.00

Facilities

Mine Plant

Description	Cost

Mill

Description	Cost

Roads

Description	Cost

Remarks

*- production to date from Gail Sheep Canyon property. This production was not obtained from original (DMEA) reserve estimate.

** 115,715 tons Est. @ $1.00/ton = $115,715.00 Unknown

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration
224 New Customhouse
Denver 2, Colorado

September 19, 1957 9/23 C 220

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Semiannual Report of Certified Project for the period January 1, 1957 through June 30, 1957
DMEA Docket 2768 (Uranium)
Contract Idm-E 520, Mining Research Corporation (Railroad Cut-Gull-Sheep Canyon), Fall River County, South Dakota

Enclosed are the original and three copies of the subject report prepared in conformance with instructions contained in memorandum of January 6, 1956 from this office, Memorandum 29, and Special Notice in Minutes of Operating Committee Meeting No. 692.

Alternate Acting Executive Officer
DMEA Field Team, Region III

Enclosures
MHM/vj

cc: Semiannual Report File E 520
DMEA/DFC (2)
Harshman
Chron.

Semiannual Report of Certified Projects

Reporting Period	January 1, 1957 through June 30, 1957
Docket and Contract Number	Docket DMEA 2768, Contract Idm-E520
Operator	Mining Research Corporation
Commodity	Uranium
Mine Name	Railroad Cut-Gull-Sheep Canyon
County and State	Fall River County, South Dakota

Date of Contract	May 14, 1953
Date of Certification	February 13, 1957
Expiration Date of Royalty Payments	May 14, 1965
Date of Examination for this Report	August 8, 1957

Total Amount of Contract	$52,873.00
Total Expenditures under Contract	$22,861.95
Amount of Government Participation at 90 %	$18,936.31

Royalty Payments this Period	$489.97
Previous Royalty Payments	$1,359.82
Total Royalty Payments to Date	$1,849.79
% Loan Repayment Completed	9.77%

Amount of Royalty Due	None
Royalty Remarks	None

		Tons	Analysis U_3O_8
Original Estimate of DMEA Reserve (Field Team Final Report) Mines [ ] Survey [ ] Joint [X]	Indicated	23,890	0.139%
	Inferred	45,118	0.135%
Revised Estimate of DMEA Reserves (Field Team) Mines [ ] Survey [ ] Joint [ ]		69,008	0.136%
Increase of Reserves by work performed subsequent to DMEA project work		---	---

			U_3O_8	V_2O_5
Production DMEA ore	(This period)	* 861.25	0.133%	0.174%
	(Previous)	876.445	0.195%	0.143%
	(To Date)	1737.695	0.169%	0.156%
" Operator's ore found subsequent to DMEA work	(This period)			
	(Previous)			
	(To date)			

Percent Revised Reserves Mines 2.52%

* Starting w/Liq. No. 296
Ending w/Liq. No. 544

(For Uranium Ores Only)

Initial Production Bonus:

Status of Operator: Ineligible [ ] Applied for [ ] Rec'ing pmt [X] Paid up [ ]

Pounds U_3O_8 produced this period eligible for Bonus	2,132.96
Amount of Bonus paid to Operator this period	$ 4,214.24
Total pounds U_3O_8 produced to date eligible for Bonus	5,551.98
Total amount of Bonus paid to Operator to date	$ 16,125.08
Bonus Royalty Paid	$ 782.95
Bonus Royalty Due	$ 6.99

Investment Data

Shafts Size	Shafts Feet	Shafts Cost	Winzes Size	Winzes Feet	Winzes Cost	Drifts & Crosscuts Size	Drifts & Crosscuts Feet	Drifts & Crosscuts Cost

Raises Size	Raises Feet	Raises Cost	Drilling Type & Size	Drilling Feet	Drilling Cost	Rehabilitation Description	Rehabilitation Cost

Facilities

Mine Plant Description	Mine Plant Cost	Mill Description	Mill Cost	Roads Description	Roads Cost

G-D Compressor 125 cfm)
2 HD 10 Dozer)
405 Loader)
Pickup Ford) $67,000.
Misc drill & steel) Approx.
1 GMC Dump truck)
1 Chev. " ")
1 G-D 210 cfm Commpr.)

Remarks

Mine is a rim cut. Approximately 200 feet in length, 80 to 100 feet in depth and 80 to 100 feet in width.

Signed E O Binyon (Engineer)

2768

Date 3-14

Referred to:

1. ~~Mr. Wheatley~~
2. ~~Mr. Johnson~~
3. ~~Mr. Chambers~~
4. ~~Docket Control Mails and Files~~
5. ~~Rate & Tariff Division~~
6. Docket Control Mails and Files

Note comments in report regarding:

1. Premature —
2. No certificate on
   No Terminal rec.
3.
4.

and take appropriate action.

- - - - - -

Action taken by Division:
Now required - Not certificate

Initials

RECEIVED

MAR 14 1956

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

224 New Customhouse
Denver 2, Colorado

Date: March 9, 1956

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Semiannual Report of ~~Certified~~ Project for the period July 1, 1955 through December 31, 1955, DMEA Docket 2768 (Uranium) Contract Idm-E 520, Mining Research Corporation, Gull-Sheep Canyon Claims, Fall River County, South Dakota.

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

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

Enclosures
RDB/vj
cc: Semiannual Report File E 520
E. O. Binyon
E. N. Harshman
Chron.

Semi-Annual Report of Certified Projects

RECEIVED
MAR 14 1956

Reporting Period July 1, 1955 - December 31, 1955

Docket and Contract Number Docket DMEA 2768, Contract Idm-E520

Operator Mining Research Corp.

Commodity Uranium

Mine Name Gull-Sheep Canyon Claims, Gull Railroad Cut

County and State Fall River County, S. Dak.

Date of Contract May 14, 1953

Date of Certification NO CERTIFICATION TO DATE

Expiration Date of Royalty Payments

Date of Examination for this Report

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

Total Amount of Contract $52,873.00

Total Expenditures under Contract $21,135.87

Amount of Government Participation at 90 & 75 % $15,003.56

Royalty Payments this Period None

Previous Royalty Payments None

Total Royalty Payments to Date None

% Loan Repayment Completed 0

Amount of Royalty Due $54.64 on Lots 8509, 8978, 9116 shipped 8/30, 10/11 and 10/28/55 respectively

Royalty Remarks $54.64 royalty paid in January 1956 does not include payment for A.E.C. production bonus on these above lots.

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MAR 14 1956

Original Estimate of Reserves (from Final Engr.-Geol. Report): Project still active, but recessed at present. No estimate of reserves for Gull-Sheep Canyon claims. Estimated reserves Lion-McKnight areas memorandum Report 3/30/55, 27,590 tons grade .115 % U_3O_8.

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

Revised Estimate of Reserves: _____

Production this Period (Ore or Concentrates) 125.682 short tons

Amount of Previous Production (since date of contract) None

Total DMEA Production to date 125.682

% of Revised Reserves Mined

Production Remarks: Total production 195.6755 short tons; of this, 125.682 tons were ore grade.

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

Other Remarks: Mining operations are in progress at the Gull Railroad Cut and ore shipments are being made from this part of the property.

Signed H. E. Bingham (Engineer)

U. S. DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration
224 New Customhouse
Denver 2, Colorado

November 5, 1957

Memorandum

To: Chairman, Operating Committee, DMEA
From: Executive Officer, DMEA Field Team, Region III
Subject: Royalty Payments, Docket DMEA 2768 (Uranium) Contract Idm-E520, Mining Research Corporation (Edgemont Uranium Area) Fall River County, South Dakota
Period: October 1957

Enclosed are settlement sheets for which royalty payments were received for ore or concentrates shipped from the subject property during the above month:

Date	Lot No.	Dry Tons	Royalty Due	Royalty Paid	Bonus Roy. Due	Bonus Roy. Pd.
NONE						

RECEIVED NOV 8 1957

11/8	gb	220
11	FDC	700

Totals:

Past Due Royalties Collected $12.54
AEC Bonus on Liq. #517
Total Dry Tons (Ore or Cons.) Shipped to Date 1640.557

E. M. Hardman
Acting Executive Officer

Chron
cc: Royalty File E 520 w/settlement sheets
Monthly Royalty Payment File
hmh

U. S. DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration
224 New Customhouse
Denver 2, Colorado

July 11, 1957

Memorandum

To: Chairman, Operating Committee, DMEA
From: Executive Officer, DMEA Field Team, Region III
Subject: Royalty Payments, Docket DMEA 2768 (Uranium), Contract Idm-E520, Mining Research Corporation (Edgemont Uranium Area), Fall River County, South Dakota
Period: June, 1957

Enclosed are settlement sheets for which royalty payments were received for ore or concentrates shipped from the subject property during the above month:

Date	Lot No.	Dry Tons	Royalty Due	Royalty Paid	Bonus Roy. Due	Bonus Roy. Pd.	
1957							
6/6	517	83.580	$6.74	$22.47	$3.76	- --	.97
6/14	544	79.706	3.23	10.76	3.23	- --	4.30
Totals:		163.286	$9.97	$33.23	$6.99		15.27

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DATE	INITIALS	CODE
7/15	P.K.	220
11	~~FHC~~	700

Past Due Royalties Collected $187.42
AEC Bonus on Liq. Nos. 326, 341, 350, 379, 383 & 498
Total Dry Tons (Ore or Cons.) Shipped to Date 1640.057

W H King
Executive Officer

Chron.
cc: Royalty File E 520 w/settlement sheets
~~Monthly Royalty Payment File~~
vj

MINES DEVELOPMENT, INC.
FARMERS UNION BUILDING
DENVER 3, COLORADO

SETTLEMENT STATEMENT

LIQUIDATION NO 517
DISTRICT Edgemont
DATE June 6, 1957

DATE RECEIVED May 29, 1957 LOT NO. S978 SHIPPER'S LOT NO

A.E.C. LIC NO P3399 CONTRACT NUMBER

RECEIVED OF Mining Research Corp.
5810 W. 38th Ave.
SHIPPERS ADDRESS Denver 14, Colorado

CLAIM NAME Gull Railroad Cut STATE So. Dak.

MINE DIST Edgemont COUNTY Fall River

TYPE OF ORE

HAULAGE DISTANCE 8 TO PROCESS 5/29/57 TO STOCKPILE

LOT NO	WET WEIGHT (LBS)	% H_2O	DRY WEIGHT (LBS.)	SETTLEMENT ASSAYS (%) U_3O_8	V_2O_5	$CaCO_3$		CONTENTS (LBS.) U_3O_8	V_2O_5	$CaCO_3$	
S978	176,850	5.48	167,161	0.10	0.14	0.58		167.16	234.03	969.53	

WET TONS 88.425 DRY TONS 83.580

ITEM	TONS	POUNDS	UNIT PRICE	AMOUNT
BASE PRICE		167.16	1.50	250.74
PREMIUMS: U_3O_8 IN EXCESS OF 4 LB./TON			0.75	
U_3O_8 IN EXCESS OF 10 LB./TON			0.25	
TOTAL U_3O_8 PAYMENT				250.74
PENALTIES: LIME ($CaCO_3$ IN EXCESS OF 6%) [-]				[ ]
OTHER [-]				[ ]
TOTAL FOR ORE				250.74
VANADIUM		234.03	0.31	72.55
DEVELOPMENT ALLOWANCE		167.16	0.50	83.58
HAULAGE ALLOWANCE 8 MILES	88.425		0.06	42.44
TOTAL V_2O_5 AND ALLOWANCES				198.57
TOTAL GROSS SETTLEMENT				449.31
DEDUCTIONS: [ ]				[ ]
NET SETTLEMENT				$449.31

DISTRIBUTION

%	PAYEE	AMOUNT	CHK NO
100	Mining Research Corp.	$449.31	L0635

NOTE:
Buyer's assays govern if seller fails to submit his assays prior to acceptance of settlement payment.

All rates paid are based upon U. S. Atomic Energy Commission published schedules

District Representative [signature]

Approved [signature]

SELLER'S COPY

140.15 8-56 2500

E520

DEVELOPMENT, INC.
S UNION BUILDING
R 3, COLORADO

LIQUIDATION NO. 544
DISTRICT Edgemont
DATE June 14, 1957

SETTLEMENT STATEMENT

DATE RECEIVED May 31, 1957 LOT NO. S988 SHIPPER'S LOT NO.

A.E.C. LIC. NO. P-3399 CONTRACT NUMBER

RECEIVED OF Mining Research Corp.
5810 W. 38th Avenue
SHIPPERS ADDRESS Denver 14, Colorado

CLAIM NAME Gull Railroad Cut STATE So. Dak.

MINE DIST Edgemont COUNTY Fall River

TO PROCESS

HAULAGE DISTANCE 8 TO STOCKPILE 6/3/57

TYPE OF ORE

LOT NO.	WET WEIGHT (LBS.)	% H_2O	DRY WEIGHT (LBS.)	SETTLEMENT ASSAYS (%) U_3O_8	V_2O_5	$CaCO_3$		CONTENTS (LBS.) U_3O_8	V_2O_5	$CaCO_3$	
S988	168,700	5.51	159,411	0.09	0.12	0.65		143.47	191.29	1036.17	

Payment made on basis of uranium content only at minimum price per pound due to marginal "no pay" value of assay. Discussed by phone with shipper

WET TONS	84.350	DRY TONS	79.706

ITEM	TONS	POUNDS	UNIT PRICE	AMOUNT
BASE PRICE		143.47	1.50	215.21
PREMIUMS: U_3O_8 IN EXCESS OF 4 LB./TON			0.75	
U_3O_8 IN EXCESS OF 10 LB./TON			0.25	
TOTAL U_3O_8 PAYMENT				215.21
PENALTIES: LIME ($CaCO_3$ IN EXCESS OF 6%) [ ]				[ ]
OTHER [ ]				[ ]
TOTAL FOR ORE				215.21
VANADIUM			0.31	
DEVELOPMENT ALLOWANCE			0.50	
HAULAGE ALLOWANCE _____ MILES			0.06	
TOTAL V_2O_5 AND ALLOWANCES				
TOTAL GROSS SETTLEMENT				
DEDUCTIONS: [-]				[ ]
NET SETTLEMENT				$215.21

DMEA
DEPARTMENT OF THE INTERIOR
JUN 20 1957
REGION III
DENVER, COLORADO

DISTRIBUTION

%	PAYEE	AMOUNT	CHK. NO.
100	Mining Research Corp.	$215.21	L0668

NOTE: Buyer's assays govern if seller fails to submit his assays prior to acceptance of settlement payment.

All rates paid are based upon U. S. Atomic Energy Commission published schedules.

District Representative

Approved

340.15 5-56 2500

SELLER'S COPY

6520

MINES DEVELOPMENT, INC.
FARMERS UNION BUILDING
DENVER 3, COLORADO

LIQUIDATION NO 517
DISTRICT Edgemont
DATE June 6, 1957

SETTLEMENT STATEMENT

DATE RECEIVED May 29, 1957 LOT NO. S978 SHIPPER'S LOT NO.

A.E.C. LIC NO P3399 CONTRACT NUMBER

RECEIVED OF Mining Research Corp.
5810 W. 38th Ave.
SHIPPERS ADDRESS Denver 14, Colorado

CLAIM NAME Gull Railroad Cut STATE So. Dak.

MINE DIST. Edgemont COUNTY Fall River

TYPE OF ORE

HAULAGE DISTANCE 8 TO PROCESS 5/29/57 TO STOCKPILE

LOT NO.	WET WEIGHT (LBS)	% H_2O	DRY WEIGHT (LBS)	SETTLEMENT ASSAYS (%) U_3O_8	V_2O_5	$CaCO_3$		CONTENTS (LBS) U_3O_8	V_2O_5	$CaCO_3$	
S978	176,850	5.48	167,161	0.10	0.14	0.58		167.16	234.03	969.53	
WET TONS	88.425	DRY TONS	83.580								

ITEM		TONS	POUNDS	UNIT PRICE	AMOUNT
BASE PRICE			167.16	1.50	250.74
PREMIUMS: U_3O_8 IN EXCESS OF 4 LB./TON				0.75	
U_3O_8 IN EXCESS OF 10 LB./TON				0.25	
TOTAL U_3O_8 PAYMENT					250.74
PENALTIES: LIME ($CaCO_3$ IN EXCESS OF 6%)	[ ]				[ ]
OTHER	[ ]				[ ]
TOTAL FOR ORE					250.74
VANADIUM			234.03	0.31	72.55
DEVELOPMENT ALLOWANCE			167.16	0.50	83.58
HAULAGE ALLOWANCE	8 MILES	88.425		0.06	42.44
TOTAL V_2O_5 AND ALLOWANCES					198.57
TOTAL GROSS SETTLEMENT					449.31
DEDUCTIONS:	[ ]				[ ]
NET SETTLEMENT					$449.31

DISTRIBUTION

%	PAYEE	AMOUNT	CHK NO
100	Mining Research Corp.	$449.31	L0635

DMEA
DEPARTMENT OF THE INTERIOR
JUN 12 1957
REGION III
DENVER, COLORADO

NOTE.
Buyer's assays govern if seller fails to submit his assays prior to acceptance of settlement payment.

All rates paid are based upon U. S. Atomic Energy Commission published schedules

District Representative

Approved

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140.15 8-56 2500

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RECEIVED
JUL 15 1957
D.M.E.

MINES DEVELOPMENT, INC.
FARMERS UNION BUILDING
DENVER 3, COLORADO

LIQUIDATION NO. 544
DISTRICT Edgemont
DATE June 14, 1957

SETTLEMENT STATEMENT

DATE RECEIVED May 31, 1957 LOT NO. S988 SHIPPER'S LOT NO.

A.E.C. LIC. NO. P-3399 CONTRACT NUMBER

RECEIVED OF Mining Research Corp.
5810 W. 38th Avenue
SHIPPERS ADDRESS Denver 14, Colorado

CLAIM NAME Gull Railroad Cut STATE So. Dak.

MINE DIST Edgemont COUNTY Fall River

TYPE OF ORE

HAULAGE DISTANCE 8 TO PROCESS TO STOCKPILE 6/3/57

LOT NO.	WET WEIGHT (LBS.)	% H_2O	DRY WEIGHT (LBS.)	SETTLEMENT ASSAYS (%) U_3O_8	V_2O_5	$CaCO_3$		CONTENTS (LBS.) U_3O_8	V_2O_5	$CaCO_3$	
S988	168,700	5.51	159,411	0.09	0.12	0.65		143.47	191.29	1036.17	
WET TONS	84.350	DRY TONS	79.706								

Payment made on basis of uranium content only at minimum price per pound due to marginal "no pay" value of assay. Discussed by phone with shipper

ITEM	TONS	POUNDS	UNIT PRICE	AMOUNT
BASE PRICE		143.47	1.50	215.21
PREMIUMS: U_3O_8 IN EXCESS OF 4 LB./TON			0.75	
U_3O_8 IN EXCESS OF 10 LB./TON			0.25	
TOTAL U_3O_8 PAYMENT				215.21
PENALTIES: LIME ($CaCO_3$ IN EXCESS OF 6%) [-]				[ ]
OTHER [-]				[ ]
TOTAL FOR ORE				215.21
VANADIUM			0.31	
DEVELOPMENT ALLOWANCE			0.50	
HAULAGE ALLOWANCE _____ MILES			0.06	
TOTAL V_2O_5 AND ALLOWANCES				
TOTAL GROSS SETTLEMENT				
DEDUCTIONS: [-]				[ ]
NET SETTLEMENT				$215.21

DMEA
DEPARTMENT OF THE INTERIOR
JUN 20 1957
DENVER

DISTRIBUTION

%	PAYEE	AMOUNT	CHK. NO.
100	Mining Research Corp.	$215.21	L0668

NOTE:
Buyer's assays govern if seller fails to submit his assays prior to acceptance of settlement payment.

All rates paid are based upon U. S. Atomic Energy Commission published schedules.

District Representative [signature]

Approved [signature]

SELLER'S COPY

240.15 8-56 2500

E520

RECEIVED
JUL 15 1957
D.M.E.A.

U. S. DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration
224 New Customhouse
Denver 2, Colorado

June 10, 1957

Memorandum

To: Chairman, Operating Committee, DMEA
From: Executive Officer, DMEA Field Team, Region III
Subject: Royalty Payments, Docket DMEA 2768 (Uranium), Contract Idm-E520, Mining Research Corporation (Edgemont Uranium Area), Fall River, County, South Dakota
Period: May, 1957

Enclosed are settlement sheets for which royalty payments were received for ore or concentrates shipped from the subject property during the above month:

Date	Lot No.	Dry Tons	Royalty Due	Royalty Paid	Bonus Roy. Due	Bonus Roy. Pd.
1957 5/10	498	48.294	$32.39	$32.39	$23.81	---
Totals:		48.294	$32.39	$32.39	$23.81	---

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RECEIVED JUN 13 1957
DATE | CODE
6 13 | C
11 | ELK 220
700

Past Due Royalties Collected None

Total Dry Tons (Ore or Cons.) Shipped to Date 1476.771

E. M. Hansmann

Acting Executive Officer

vj

cc: Konselman (2) w/settlement sheet
Royalty File E 520 w/settlement sheets
Monthly Royalty Payment File
Chron.

ES DEVELOPMENT, INC.
UNION BUILDING
NVER 3, COLORADO

LIQUIDATION NO. 498
DISTRICT Edgemont
DATE May 10, 1957

SETTLEMENT STATEMENT

DATE RECEIVED May 1, 1957 LOT NO. S913 SHIPPER'S LOT NO.

A.E.C. LIC. NO. P3399 CONTRACT NUMBER

RECEIVED OF Mining Research Corp.
5810 W. 38th Avenue
SHIPPERS ADDRESS Denver 14, Colorado

CLAIM NAME Gull Railroad Cut STATE So. Dak.

MINE DIST Edgemont COUNTY Fall River

TYPE OF ORE

HAULAGE DISTANCE 8 TO PROCESS 5/2/57 TO STOCKPILE

LOT NO.	WET WEIGHT (LBS.)	% H_2O	DRY WEIGHT (LBS.)	SETTLEMENT ASSAYS (%) U_3O_8	V_2O_5	$CaCO_3$		CONTENTS (LBS.) U_3O_8	V_2O_5	$CaCO_3$	
S913	98,380	1.82	96,587	0.17	0.22	0.36		164.20	212.49	347.71	
WET TONS	49.190	DRY TONS	48.294								

ITEM	TONS	POUNDS	UNIT PRICE	AMOUNT
BASE PRICE		164.20	2.90	476.18
PREMIUMS: U_3O_8 IN EXCESS OF 4 LB./TON			0.75	
U_3O_8 IN EXCESS OF 10 LB./TON			0.25	
TOTAL U_3O_8 PAYMENT				476.18
PENALTIES: LIME ($CaCO_3$ IN EXCESS OF 6%) [-]				[ ]
OTHER [-]				[ ]
TOTAL FOR ORE				476.18
VANADIUM		212.49	0.31	65.87
DEVELOPMENT ALLOWANCE		164.20	0.50	82.10
HAULAGE ALLOWANCE 8 MILES	49.190		0.06	23.61
TOTAL V_2O_5 AND ALLOWANCES				171.58
TOTAL GROSS SETTLEMENT				647.76
DEDUCTIONS: [-]				[ ]
NET SETTLEMENT				$647.76

DISTRIBUTION

	PAYEE	AMOUNT	CHK NO.
100	Mining Research Corp.	$647.76	L0611

DMEA
DEPARTMENT OF THE INTERIOR
MAY 15 1957
REGION III
DENVER, COLORADO

NOTE:
Buyer's assays govern if seller fails to submit his assays prior to acceptance of settlement payment.

All rates paid are based upon U. S. Atomic Energy Commission published schedules.

District Representative Carl Range

Approved T. J. Vogenthiles

SELLER'S COPY

340.15 8-56 2500

E520

OFFICIAL FILE COPY
D M E A
RECEIVED JUN 18 1957

DATE	INITIALS	CODE

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

224 New Customhouse
Denver 2, Colorado

Date: April 4, 1957

Memorandum

To: Chairman, Operating Committee, DMEA
From: Executive Officer, DMEA Field Team, Region III
Subject: Royalty payments, Docket DMEA 2768 (Uranium), Contract Idm-E520, Mining Research Corporation (Edgemont Uranium Area), Fall River County, South Dakota
Period: March, 1957

Enclosed are settlement sheets for which royalty payments were received for ore or concentrates shipped from the subject property during the above month:

Date	Lot No.	Dry Tons	Royalty Due	Royalty Paid	Bonus Roy. Due	Bonus Roy. Pd.
1957						
2/28	341	98.967	$37.08	$37.08	$22.57	---
2/28	350	94.540	35.13	35.13	21.56	---
3/21	379	126.512	67.90	67.90	47.44	---
3/21	383	56.036	37.77	37.77	27.63	---
Totals:		376.055	$177.88	$177.88	$119.20	---

ORIGINAL FILE COPY
DMEA
RECEIVED APR 8 1957

DATE	INITIALS	CODE
4/9	C	220
"	[illegible]	700

Past Due Royalties Collected $365.28
Per our ltr dtd 2/11/57 to Mr. Livingston
Total Dry Tons (Ore or Cons.) Shipped to Date 1428.477

E. M. Hershman

~~XXXXXXXXXXX~~
Acting Executive Officer

vj
cc: Royalty File E 520 w/settlement sheets
Monthly Royalty Payment File
J. F. Shaw (2) w/settlement sheets
Chron.

MINES DEVELOPMENT, INC.
ARMERS UNION BUILDING
DENVER 3, COLORADO

SETTLEMENT STATEMENT

LIQUIDATION NO 341
DISTRICT Edgemont
DATE Feb. 28, 1957

DATE RECEIVED Feb. 15, 1957 LOT NO S665 SHIPPER'S LOT NO

A.E.C. LIC NO P3399 CONTRACT NUMBER

RECEIVED OF Mining Research Corp.
SHIPPERS ADDRESS 5810 W. 38th Ave. Wheatridge, Colorado

CLAIM NAME Gull Railroad Cut STATE So Dak
MINE DIST Edgemont COUNTY Fall River
TYPE ORE
HAULAGE DISTANCE 8 TO PROCESS 2/15/57 TO STOCKPILE

LOT NO	WET WEIGHT (LBS)	% H2O	DRY WEIGHT (LBS)	SETTLEMENT ASSAYS (%) U3O8	V2O5	CaCO3	CONTENTS (LBS) U3O8	V2O5	CaCO3
S665	203,360	2.67	197,934	0.12	0.20	0.88	237.52	395.87	1741.82

WET TONS 101.680 DRY TONS 98.967

ITEM	TONS	POUNDS	UNIT PRICE	AMOUNT
BASE PRICE		237.52	1.90	451.29
PREMIUMS U3O8 IN EXCESS OF 4 LB/TON			0.75	
U3O8 IN EXCESS OF 10 LB/TON			0.25	
TOTAL U3O8 PAYMENT				451.29
PENALTIES LIME (CaCO3 IN EXCESS OF 6%) [ ]				[ ]
OTHER [ ]				[ ]
TOTAL FOR ORE				451.29
VANADIUM		395.87	0.31	122.72
DEVELOPMENT ALLOWANCE		237.52	0.50	118.76
HAULAGE ALLOWANCE 8 MILES	101.680		0.06	48.81
TOTAL V2O5 AND ALLOWANCES				290.29
TOTAL GROSS SETTLEMENT				741.58
DEDUCTIONS. [ ]				[ ]
NET SETTLEMENT				$741.58

PAYEE	AMOUNT	CHK NO
Mining Research Corp.	$741.58	10417

NOTE
Buyer's assays provided seller fails to submit his assays prior to acceptance of settlement payment.

All rates paid are based upon Atomic Energy Commission published schedules.

District Representative

Approved

E 520

MINES DEVELOPMENT, INC.
FARMERS UNION BUILDING
DENVER 3, COLORADO

SETTLEMENT STATEMENT

LIQUIDATION NO 350
DISTRICT Edgemont
DATE Feb. 28, 1957

DATE RECEIVED Feb. 19, 1957 LOT NO S678 SHIPPER'S LOT NO

A E C LIC NO P3399 CONTRACT NUMBER

RECEIVED OF Mining Research Corporation
SHIPPERS ADDRESS 5810 W. 38th Avenue
Denver 14, Colorado

CLAIM NAME Gull Railroad Cut STATE So. Dak.

MINE DIST Edgemont COUNTY Fall River

TYPE ORE

HAULAGE DISTANCE 8 TO PROCESS 2/20/57 TO STOCKPILE

LOT NO	WET WEIGHT (LBS)	% H_2O	DRY WEIGHT (LBS)	SETTLEMENT ASSAYS (%) U_3O_8	V_2O_5	$CaCO_3$	CONTENTS (LBS) U_3O_8	V_2O_5	$CaCO_3$
S678	194,390	2.73	189,080	0.12	0.19	0.90	226.90	359.25	1701.72
WET TONS	97.195	DRY TONS	94.540						

ITEM	TONS	POUNDS	UNIT PRICE	AMOUNT
BASE PRICE		226.90	1.90	431.11
PREMIUMS U_3O_8 IN EXCESS OF 4 LB./TON			0.75	/
U_3O_8 IN EXCESS OF 10 LB/TON			0.25	
TOTAL U_3O_8 PAYMENT				431.11
PENALTIES LIME ($CaCO_3$ IN EXCESS OF 5%) [ ]				[--]
OTHER [ ]				[ ]
TOTAL FOR ORE				431.11
VANADIUM		359.25	0.31	111.37
DEVELOPMENT ALLOWANCE		226.90	0.50	113.45
HAULAGE ALLOWANCE 8 MILES	97.195		0.06	46.65
TOTAL V_2O_5 AND ALLOWANCES				271.47
TOTAL GROSS SETTLEMENT				702.58
DEDUCTIONS [ ]				[ ]
NET SETTLEMENT				$702.58

SETTLEMENTS

	PAYEE	AMOUNT	CHK NO
100	Mining Research Corp.	$702.58	L0429

NOTE

Buyer [illegible] his assays p[illegible] payment

All [illegible] Energy Co[illegible]

E 520

MINES DEVELOPMENT, INC.
FARMERS UNION BUILDING
DENVER 3, COLORADO

LIQUIDATION NO. 379
DISTRICT Edgemont
DATE March 21, 1957

SETTLEMENT STATEMENT

DATE RECEIVED Feb. 28, 1957 LOT NO. 3705 SHIPPER'S LOT NO.

A.E.C. LIC. NO. P3399 CONTRACT NUMBER

RECEIVED OF Mining Research Corporation
SHIPPERS ADDRESS 5810 W. 38th Avenue
Denver 14, Colorado

CLAIM NAME Gull Railroad Cut STATE So. Dak.
MINE DIST. Edgemont COUNTY Fall River
HAULAGE DISTANCE 8 TO PROCESS 341/57 TO STOCKPILE

TYPE OF ORE

LOT NO.	WET WEIGHT (LBS.)	% H_2O	DRY WEIGHT (LBS.)	SETTLEMENT ASSAYS (%) U_3O_8	V_2O_5	$CaCO_3$		CONTENTS (LBS.) U_3O_8	V_2O_5	$CaCO_3$	
3705	260,580	2.90	253.025	0.15	0.20	0.35		379.54	506.05	885.59	
WET TONS	130.290	DRY TONS	126.512								

DMEA
DEPARTMENT OF THE INTERIOR
MAR 26 1957
REGION III
DENVER, COLORADO

ITEM		TONS	POUNDS	UNIT PRICE	AMOUNT
BASE PRICE			379.54	2.50	948.85
PREMIUMS: U_3O_8 IN EXCESS OF 4 LB./TON				0.75	
U_3O_8 IN EXCESS OF 10 LB./TON				0.25	
TOTAL U_3O_8 PAYMENT					948.85
PENALTIES: LIME ($CaCO_3$ IN EXCESS OF 8%)	[-]				[ ]
OTHER	[-]				[ ]
TOTAL FOR ORE					948.85
VANADIUM			506.05	0.31	156.88
DEVELOPMENT ALLOWANCE			379.54	0.50	189.77
HAULAGE ALLOWANCE 8 MILES		130.290		0.06	62.54
TOTAL V_2O_5 AND ALLOWANCES					409.19
TOTAL GROSS SETTLEMENT					1358.04
DEDUCTIONS:	[-]				[ ]
NET SETTLEMENT					$1358.04

DISTRIBUTION

%	PAYEE	AMOUNT	CHK. NO.
100	Mining Research Corporation	$1,358.04	10467

NOTE:
Buyer's assays govern if seller fails to submit his assays prior to acceptance of settlement payment.
All rates paid are based upon U. S. Atomic Energy Commission published schedules.

District Representative
Approved

SELLER'S COPY

E520

MINES DEVELOPMENT, INC.
FARMERS UNION BUILDING
DENVER 3, COLORADO

LIQUIDATION NO. 383
DISTRICT Edgemont
DATE March 31, 1957

SETTLEMENT STATEMENT

DATE RECEIVED March 7, 1957 LOT NO. 8726 SHIPPER'S LOT NO.

A.E.C. LIC. NO. P3399 CONTRACT NUMBER

RECEIVED OF Mining Research Corporation
SHIPPERS ADDRESS 5810 W. 38th Avenue, Denver 14, Colorado

CLAIM NAME Gull Railroad Cut STATE So. Dak.

MINE DIST. Edgemont COUNTY Fall River

TYPE OF ORE

HAULAGE DISTANCE 8 TO PROCESS 3/8/57 TO STOCKPILE

LOT NO.	WET WEIGHT (LBS.)	% H_2O	DRY WEIGHT (LBS.)	SETTLEMENT ASSAYS (%) U_3O_8	V_2O_5	$CaCO_3$		CONTENTS (LBS.) U_3O_8	V_2O_5	$CaCO_3$	
8726	115,230	2.74	112,073	0.17	0.23	0.32		190.52	257.77	358.63	
WET TONS	57.615	DRY TONS	56.036								

ITEM	TONS	POUNDS	UNIT PRICE	AMOUNT
BASE PRICE		190.52	$2.90	552.51
PREMIUMS: U_3O_8 IN EXCESS OF 4 LB./TON			0.75	
U_3O_8 IN EXCESS OF 10 LB./TON			0.25	
TOTAL U_3O_8 PAYMENT				552.51
PENALTIES: LIME ($CaCO_3$ IN EXCESS OF 6%) [-]				[ ]
OTHER [-]				[ ]
TOTAL FOR ORE				$552.51
VANADIUM		257.77	0.31	79.91
DEVELOPMENT ALLOWANCE		190.52	0.50	95.26
HAULAGE ALLOWANCE 8 MILES	57.615		0.06	27.66
TOTAL V_2O_5 AND ALLOWANCES				202.83
TOTAL GROSS SETTLEMENT				755.34
DEDUCTIONS: [-]				[ ]
NET SETTLEMENT				$755.34

DISTRIBUTION

%	PAYEE	AMOUNT	CHK. NO.
100	Mining Research Corporation	$755.34	L0475

NOTE:
Buyer's assays govern if seller fails to submit his assays prior to acceptance of settlement payment.

All rates paid are based upon U. S. Atomic Energy Commission published schedules.

District Representative

Approved

SELLER'S COPY

E 520

RECEIVED
APR 8 1957
D.M.E.A.

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

224 New Customhouse
Denver 2, Colorado

Date: March 7, 1957

Memorandum

To: Chairman, Operating Committee, DMEA
From: Executive Officer, DMEA Field Team, Region III
Subject: Royalty payments, Docket DMEA 2768 (Uranium), Contract Idm-E520, Mining Research Corporation (Edgemont Uranium Area), Fall River County, South Dakota
Period: February, 1957

Enclosed are settlement sheets for which royalty payments were received for ore or concentrates shipped from the subject property during the above month:

Date	Lot No.	Dry Tons	Royalty Due	Royalty Paid	Bonus Roy. Due	Bonus Roy. Pd.
2/15/57	326	102.320	$59.05	$59.05	$44.42	---
Totals:		102.320	$59.05	$59.05	$44.42	---

OFFICIAL FILE COPY
DMEA
RECEIVED MAR 11 1957

DATE	INITIALS	CODE
3-12	C	220
"	~~[illegible]~~	700

Past Due Royalties Collected None

Total Dry Tons (Ore or Cons.) Shipped to Date 1052.422

E. M. Hardman

for W. M. Traver

vj

cc: Royalty File E 520 w/settlement sheets
Monthly Royalty Payment File
J. F. Shaw (2) w/settlement sheet
Chron.

M[illegible]S DEVELOPMENT, INC.
FA[illegible]RS UNION BUILDING
DENVER 3, COLORADO

SETTLEMENT STATEMENT

[illegible] 326
DISTRICT Edgemont
DATE Feb. 15, 1957

DATE RECEIVED Feb. 5, 1957 LOT NO S630 SHIPPER'S LOT NO

A.E.C. LIC. NO D-3399 CONTRACT NUMBER

RECEIVED OF Mining Research Corp
SHIPPERS ADDRESS 5810 N. 38th Ave, Montridge, Colorado

CLAIM NAME Gull Railroad Cut STATE So Dak
MINE DIST. Edgemont COUNTY Fall River
HAULAGE DISTANCE 8 TO PROCESS 2/6/57 TO STOCKPILE

TYPE ORE

LOT NO	WET WEIGHT (LBS)	% H2O	DRY WEIGHT (LBS)	SETTLEMENT ASSAYS (%) U3O8	V2O5	CaCO3		CONTENTS (LBS) U3O8	V2O5	CaCO3	
S630	214,820	4.27	205,639	0.16	0.12	0.91		329.02	246.77	1871.31	

WET TONS 107.410 DRY TONS 102.820

ITEM	TONS	POUNDS	UNIT PRICE	AMOUNT
BASE PRICE		329.02	2.70	888.35
PREMIUMS: U3O8 IN EXCESS OF 4 LB./TON			0.75	
U3O8 IN EXCESS OF 10 LB./TON			0.25	
TOTAL U3O8 PAYMENT				888.35
PENALTIES: LIME (CaCO3 IN EXCESS OF 6%) [ ]				[ ]
OTHER [-]				[ ]
TOTAL FOR ORE				888.35
VANADIUM		246.77	0.31	76.50
DEVELOPMENT ALLOWANCE		329.02	0.50	164.51
HAULAGE ALLOWANCE 8 MILES	107.410		0.06	51.56
TOTAL V2O5 AND ALLOWANCES				292.57
TOTAL GROSS SETTLEMENT				1180.92
DEDUCTIONS: [-]				[
NET SETTLEMENT				$1180.92

DISTRIBUTION

%	PAYEE	AMOUNT	CHK. NO.
100	[illegible]ing Research Corp.	$1,180.92	10399

NOTE:
Buyer's assays govern if seller fails to submit his assays prior to acceptance of settlement payment

All rates paid are based upon U. S. Atomic Energy Commission published schedules

District Representative [signature]

Approved [signature]

[illegible] 15 9 56 250

E 520

RECEIVED
MAR 11 1957
D.M.E.A.

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

224 New Customhouse
Denver 2, Colorad

Date: February 7, 1957

Memorandum

To: Chairman, Operating Committee, DMEA
From: Executive Officer, DMEA Field TEam, Region III
Subject: Royalty payments, Docket DMEA 2768 (Uranium), Contract Idm-E520, Mining Research Corporation (Edgemont Uranium Area) Fall River County, South Dakota
Period: January, 1957

Enclosed are settlement sheets for which royalty payments were received for ore or concentrates shipped from the subject property during the above month:

Date	Lot No.	Dry Tons	Royalty Due	Royalty Paid	Bonus Roy. Due	Bonus Roy. Pd.
1956						
12/19	215	122.058	$63.24	$44.27 *	$45.77	---
12/21	223	100.298	92.46	92.46	73.72	---
12/28	237	105.459	82.35	82.35	66.12	---
1957						
1/10	268	93.822	66.60	66.60	52.35	---
1/23	296	73.657	64.17	64.17	51.56	---
Totals:		495.294	$368.82	$349.85	$289.52	---

Past Due Royalties Collected None

Total Dry Tons (Ore or Cons.) Shipped to Date 950.102

OFFICIAL FILE COPY
DMEA
RECEIVED FEB 11 1957

DATE	INITIALS	CODE
2-12	C	220
"	[illegible]	700

W. M. Traver

W. M. Traver

vj
cc: Royalty File E 520 w/settlement sheets
Monthly Royalty Payment File
J. F. Shaw (2) w/settlement sheets
Chron.

MINES DEVELOPMENT, INC.
FARMERS UNION BUILDING
DENVER 3, COLORADO

SETTLEMENT STATEMENT

LIQUIDATION NO 215
DISTRICT Edgemont
DATE Dec. 19, 1956

DATE RECEIVED Nov. 28, 1956 LOT NO. S-404 SHIPPER'S LOT NO.

RECEIVED OF Mining Research Corp.
SHIPPERS ADDRESS 5810 W. 38th Ave Denver, Colo.

TYPE OF ORE

A.E.C. LIC. NO. R-3399 CONTRACT NUMBER

CLAIM NAME Gull Railroad Cut STATE So Dak

MINE DIST. Edgemont COUNTY Fall River

HAULAGE DISTANCE 8 TO PROCESS TO STOCKPILE

LOT NO	WET WEIGHT (LBS.)	% H_2O	DRY WEIGHT (LBS.)	SETTLEMENT ASSAYS (%) U_3O_8	V_2O_5	$CaCO_3$		CONTENTS (LBS.) U_3O_8	V_2O_5	$CaCO_3$	
S404	251,770	3.04	244,116	0.15	0.14	0.65		366.17	341.76	1586.75	
WET TONS	125.885	DRY TONS	122.058								

ITEM	TONS	POUNDS	UNIT PRICE	AMOUNT
BASE PRICE		366.17	2.50	915.43
PREMIUMS: U_3O_8 IN EXCESS OF 4 LB./TON			0.75	
U_3O_8 IN EXCESS OF 10 LB./TON			0.25	
TOTAL U_3O_8 PAYMENT				915.43
PENALTIES. LIME ($CaCO_3$ IN EXCESS OF 6%) [-]				[—]
OTHER [-]				[—]
TOTAL FOR ORE				915.43
VANADIUM		341.76	0.31	105.95
DEVELOPMENT ALLOWANCE		366.17	0.50	183.09
HAULAGE ALLOWANCE 8 MILES	125.885		0.06	60.42
TOTAL V_2O_5 AND ALLOWANCES				349.46
TOTAL GROSS SETTLEMENT				1264.89
DEDUCTIONS: [-]				[ ]
NET SETTLEMENT				$1264.89

DISTRIBUTION

%	PAYEE	AMOUNT	CHK. NO.
100	Mining Research Corp	$1264.89	10262

NOTE:
Buyer's assays govern if seller fails to submit his assays prior to acceptance of settlement payment.

All rates paid are based upon U. S. Atomic Energy Commission published schedules

District Representative C. L. Runyan

Approved E. E. Baker

SELLER'S COPY

340.15 5-56 2500

B 320

MINES DEVELOPMENT, INC.
FARMERS UNION BUILDING
DENVER 3, COLORADO

SETTLEMENT STATEMENT

LIQUIDATION NO. 223
DISTRICT
DATE Dec. 21, 1956

DATE RECEIVED Dec. 11, 1956 LOT NO. S446 SHIPPER'S LOT NO.

A.E.C. LIC. NO. P-5599 CONTRACT NUMBER

RECEIVED OF Mining Research Corp.
5810 W. 38th Ave.
SHIPPERS ADDRESS Denver 14, Colorado

CLAIM NAME Gull Railroad Cut STATE So Dak

MINE DIST. Edgemont COUNTY Fall River

TO PROCESS
HAULAGE DISTANCE 8 TO STOCKPILE

TYPE OF ORE

LOT NO.	WET WEIGHT (LBS.)	% H_2O	DRY WEIGHT (LBS.)	SETTLEMENT ASSAYS (%) U_3O_8	V_2O_5	$CaCO_3$		CONTENTS (LBS.) U_3O_8	V_2O_5	$CaCO_3$	
S446	206,570	2.89	200,595	0.21	0.16	0.84		421.25	320.95	1685.00	
WET TONS	103.285	DRY TONS	100.298								

ITEM	TONS	POUNDS	UNIT PRICE	AMOUNT
BASE PRICE		421.25	3.50	1474.38
PREMIUMS: U_3O_8 IN EXCESS OF 4 LB./TON	100.298	.2	0.75	15.04
U_3O_8 IN EXCESS OF 10 LB./TON			0.25	
TOTAL U_3O_8 PAYMENT				1489.42
PENALTIES: LIME ($CaCO_3$ IN EXCESS OF 6%) [-]				[ ]
OTHER [-]				[ ]
TOTAL FOR ORE				1489.42
VANADIUM		320.95	0.31	99.49
DEVELOPMENT ALLOWANCE		421.25	0.50	210.63
HAULAGE ALLOWANCE 8 MILES	103.285		0.06	49.58
TOTAL V_2O_5 AND ALLOWANCES				359.70
TOTAL GROSS SETTLEMENT				1849.12
DEDUCTIONS: [-]				[ ]
NET SETTLEMENT				$1849.12

DISTRIBUTION

%	PAYEE	AMOUNT	CHK. NO.
100	Mining Research Corp	$1,849.12	L0282

NOTE:
Buyer's assays govern if seller fails to submit his assays prior to acceptance of settlement payment.

All rates paid are based upon U. S. Atomic Energy Commission published schedules.

District Representative Arch Runyan

Approved E. T. Bator

D. 348.17

SELLER'S COPY

E-520

RECEIVED FEB 11 1957 D.M.E.A.

MINES' DEVELOPMENT, INC.
FARMERS UNION BUILDING
DENVER 3, COLORADO

SETTLEMENT STATEMENT

LIQUIDATION NO 237
DISTRICT
DATE Dec. 28, 1956

DATE RECEIVED Dec. 15, 1956 LOT NO S-474 SHIPPER'S LOT NO.

A.E.C. LIC. NO P-3399 CONTRACT NUMBER

RECEIVED OF Mining Research Corp

SHIPPERS ADDRESS 5810 W. 38th Ave. Denver, Colorado

CLAIM NAME Gull Railroad Cut STATE So Dak

MINE DIST Edgemont COUNTY Fall River

TYPE OF ORE

HAULAGE DISTANCE 8 TO PROCESS TO STOCKPILE

LOT NO.	WET WEIGHT (LBS.)	% H_2O	DRY WEIGHT (LBS)	SETTLEMENT ASSAYS (%)				CONTENTS (LBS.)			
				U_3O_8	V_2O_5	$CaCO_3$		U_3O_8	V_2O_5	$CaCO_3$	
S474	218,160	3.32	210,917	0.19	0.11	0.43		400.74	232.01	906.94	

RECEIVED FEB 11 1957 D.M.E.A.

MINES DEVELOPMENT, INC.
FARMERS UNION BUILDING
DENVER 3, COLORADO

SETTLEMENT STATEMENT

LIQUIDATION NO. 268
DISTRICT
DATE Jan. 10, 1957

DATE RECEIVED Dec. 27, 1956 LOT NO. S514 SHIPPER'S LOT NO.

A.E.C. LIC. NO. P5399 CONTRACT NUMBER 8

RECEIVED OF Mining Research Corp
SHIPPERS ADDRESS 5810 W. 38th Ave, Denver 14, Colorado

CLAIM NAME Gull Railroad Cut STATE So Dak
MINE DIST. Edgemont COUNTY Fall River
HAULAGE DISTANCE 8 TO PROCESS TO STOCKPILE

TYPE OF ORE

LOT NO.	WET WEIGHT (LBS.)	% H2O	DRY WEIGHT (LBS)	SETTLEMENT ASSAYS (%) U3 O8	V2 O5	CA CO3		CONTENTS (LBS.) U3 O8	V2 O5	CA CO3	
S514	192,770	2.66	187,644	0.18	0.12	0.84		337.76	225.17	1576.21	
WET TONS	96.385	DRY TONS	93.822								

ITEM	TONS	POUNDS	UNIT PRICE	AMOUNT
BASE PRICE		337.76	3.10	1047.06
PREMIUMS: U3 O8 IN EXCESS OF 4 LB./TON			0.75	
U3 O8 IN EXCESS OF 10 LB./TON			0.25	
TOTAL U3 O8 PAYMENT				1047.06
PENALTIES: LIME (CA CO3 IN EXCESS OF 6%) [ ]				[—]
OTHER [-]				[ ]
TOTAL FOR ORE				1047.06
VANADIUM		225.17	0.31	69.80
DEVELOPMENT ALLOWANCE		337.76	0.50	168.88
HAULAGE ALLOWANCE 8 MILES	96.385		0.06	46.26
TOTAL V2 O5 AND ALLOWANCES				284.94
TOTAL GROSS SETTLEMENT				1332.00
DEDUCTIONS: [-]				[ ]
NET SETTLEMENT				$1332.00

DISTRIBUTION

	PAYEE	AMOUNT	CHK. NO.
100	Mining Research Corp.	$1,332.00	L0339

NOTE:
Buyer's assays govern if seller fails to submit his assays prior to acceptance of settlement payment.

All rates paid are based upon U. S. Atomic Energy Commission published schedules.

District Representative [signature]

Approved [signature]

SELLER'S COPY

© 3-56 2500

MINES DEVELOPMENT, INC.
FARMERS UNION BUILDING
DENVER 3, COLORADO

SETTLEMENT STATEMENT

LIQUIDATION NO. 296
DISTRICT
DATE Jan. 23, 1957

DATE RECEIVED Jan. 12, 1957 LOT NO S563 SHIPPER'S LOT NO.

A.E.C. LIC. NO. P3399 CONTRACT NUMBER

RECEIVED OF Mining Research Corp.
SHIPPERS ADDRESS 3810 W. 38th Ave. Denver 14, Colo.

CLAIM NAME Gull Railroad Cut STATE So. Dak.
MINE DIST. Edgemont COUNTY Fall River
TO PROCESS
HAULAGE DISTANCE 8 TO STOCKPILE
TYPE OF ORE

LOT NO.	WET WEIGHT (LBS.)	% H_2O	DRY WEIGHT (LBS.)	SETTLEMENT ASSAYS (%) U_3O_8	V_2O_5	$CaCO_3$		CONTENTS (LBS.) U_3O_8	V_2O_5	$CaCO_3$	
H S563	151,310	2.64	147,314	0.20	0.15	0.42		294.63	220.97	618.72	
WET TONS	75.655	DRY TONS	73.657								

ITEM	TONS	POUNDS	UNIT PRICE	AMOUNT
BASE PRICE		294.63	$.50	1031.21
PREMIUMS: U_3O_8 IN EXCESS OF 4 LB./TON			0.75	
U_3O_8 IN EXCESS OF 10 LB./TON			0.25	
TOTAL U_3O_8 PAYMENT				1031.21
PENALTIES: LIME ($CaCO_3$ IN EXCESS OF 6%) [-]				[—]
OTHER [-]				[ ]
TOTAL FOR ORE				1031.21
VANADIUM		220.97	0.31	68.50
DEVELOPMENT ALLOWANCE		294.63	0.50	147.32
HAULAGE ALLOWANCE 8 MILES	75.655		0.06	36.31
TOTAL V_2O_5 AND ALLOWANCES				252.13
TOTAL GROSS SETTLEMENT				1283.34
DEDUCTIONS: [-]				[ ]
NET SETTLEMENT				$1283.34

DISTRIBUTION

%	PAYEE	AMOUNT	CHK NO.
100	Mining Research Corp.	$1,283.34	L0367

NOTE
Buyer's assays govern if seller fails to submit his assays prior to acceptance of settlement payment.
All rates paid are based upon U. S. Atomic Energy Commission published schedules.

District Representative [signature]
Approved [signature]

SELLER'S COPY

E 520

® 340 16 5-56 2500

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

224 New Customhouse
Denver 2, Colorad

Date: January 17, 1957

RECEIVED JAN 22 1957 D.M.E.A.

Memorandum

To: Chairman, Operating Committee, DMEA
From: Executive Officer, DMEA Field TEam, Region III
Subject: Royalty payments, Docket DMEA 2768 (Uranium), Contract Idm-E520, Mining Research Corporation (Edgemont Uranium Area), Fall River County, South Dakota
Period: December, 1956

Enclosed are settlement sheets for which royalty payments were received for ore or concentrates shipped from the subject property during the above month:

Date	Lot No.	Dry Tons	Royalty Due	Royalty Paid	Bonus Roy. Due	Bonus Roy. Pd.
12/4/56	182	101.763	$73.23	$73.23		
Totals:		101.763	$73.23	$73.23		

Past Due Royalties Collected None

Total Dry Tons (Ore or Cons.) Shipped to Date 454.808

W. M. Traver

vj
cc: Royalty File E 520 w/settlement sheets
Monthly Royalty Payment File
J. F. Shaw (2) w/settlement sheet
Chron.

EVELOPMENT, INC.
ON BUILDING
OLORADO

SETTLEMENT STATEMENT

LIQUIDATION NO. 182
DISTRICT Edgemont
DATE Dec. 4, 1956

DATE RECEIVED Nov. 24, 1956 LOT NO S-378 SHIPPER'S LOT NO

A.E.C. LIC. NO R-3399 CONTRACT NUMBER

RECEIVED OF Mining Research Corp.
SHIPPERS ADDRESS 5810 W. 38th Ave.
Denver 14, Colorado

CLAIM NAME Gull Railroad Cut STATE So. Dak

MINE DIST Edgemont COUNTY Fall River

TYPE OF ORE

HAULAGE DISTANCE 8 TO PROCESS TO STOCKPILE

LOT NO.	WET WEIGHT (LBS.)	% H_2O	DRY WEIGHT (LBS.)	SETTLEMENT ASSAYS (%) U_3O_8	V_2O_5	$CaCO_3$		CONTENTS (LBS.) U_3O_8	V_2O_5	$CaCO_3$	
S-378	212,680	4.30	203,525	0.18	0.15	0.60		366.35	305.29	1221.15	
WET TONS	106.340	DRY TONS	101.763								

RECEIVED JAN 22 1957 D.M.E.A.

ITEM	TONS	POUNDS	UNIT PRICE	AMOUNT
BASE PRICE		366.35	3.10	1135.69
PREMIUMS: U_3O_8 IN EXCESS OF 4 LB./TON			0.75	
U_3O_8 IN EXCESS OF 10 LB./TON			0.25	
TOTAL U_3O_8 PAYMENT				1135.69
PENALTIES: LIME ($CaCO_3$ IN EXCESS OF 6%) [-]				[—]
OTHER [-]				[—]
TOTAL FOR ORE				1135.69
VANADIUM		305.29	0.31	94.64
DEVELOPMENT ALLOWANCE		366.35	0.50	183.18
HAULAGE ALLOWANCE 8 MILES	106.340		0.06	51.04
TOTAL V_2O_5 AND ALLOWANCES				328.86
TOTAL GROSS SETTLEMENT				1464.55
DEDUCTIONS [-]				[ ]
NET SETTLEMENT				$1464.55

DISTRIBUTION

%	PAYEE	AMOUNT	CHK. NO.
100	Mining Research Corp	$1464.55	10217

NOTE:
Buyer's assays govern if seller fails to submit his assays prior to acceptance of settlement payment.

All rates paid are based upon U. S. Atomic Energy Commission published schedules

District Representative [signature]

Approved [signature]

E520

340-T3 5-56 2500

12-12-56

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

RECEIVED DEC 12 1956 D.M.E.A.

224 New Customhouse
Denver 2, Colorado

Date: December 10, 1956

Memorandum

To: Chairman, Operating Committee, DMEA
From: Executive Officer, DMEA Field Team, Region III
Subject: Royalty payments, Docket DMEA 2768 (Uranium), Contract Idm-E520, Mining Research Corporation (Gull-Sheep Canyon Claims), Fall River County, South Dakota
Period: November, 1956

Enclosed are settlement sheets for which royalty payments were received for ore or concentrates shipped from the subject property during the above month:

Date	Lot No.	Dry Tons	Royalty Due	Royalty Paid	Bonus Roy. Due	Bonus Roy. Pd.

Totals:

Past Due Royalties Collected	$277.10
Per our letter of 11/1/56 to C. W. Livingston	
Total Dry Tons (Ore or Cons.) Shipped to Date	353.045

W. M. Traver

vj

cc: Royalty File E 520 w/settlement sheets
Monthly Royalty Payment File
J. F. Shaw (2)
Chron.

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

224 New Customhouse
Denver 2, Colorado

Date: December 10, 1956

RECEIVED DEC 1956 D.M.E.A.

Memorandum

To: Chairman, Operating Committee, DMEA
From: Executive Officer, DMEA Field Team, Region III
Subject: Royalty payments, Docket DMEA 2768 (Uranium), Contract Idm-E520, Mining Research Corporation (Gull-Sheep Canyon Claims), Fall River County, South Dakota
Period: November, 1956

Enclosed are settlement sheets for which royalty payments were received for ore or concentrates shipped from the subject property during the above month:

Date	Lot No.	Dry Tons	Royalty Due	Royalty Paid	Bonus Roy. Due	Bonus Roy. Pd.

Totals:

Past Due Royalties Collected $277.10
Per our letter of 11/1/56 to C. W. Livingston
Total Dry Tons (Ore or Cons.) Shipped to Date 353.045

Original signed by
W. M. TRAVER

W. M. Traver

vj

cc: Royalty File E 520 w/settlement sheets
Monthly Royalty Payment File
J. F. Shaw (2)
Chron.

7-13-56

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

RECEIVED
JUL 12 1956

224 New Customhouse
Denver 2, Colorado

Date: July 9, 1956

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Royalty payments, Docket DMEA 2768 (Uranium), Contract Idm-E520, Mining Research Corporation (Gull-Sheep Canyon claims), Fall River County, South Dakota

Period: June, 1956

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

Date	Lot No.	Dry Tons	Royalty Due	Royalty Paid	Bonus Roy. Due	Bonus Roy. Pd.
1956						
5/24	727	46.798	$40.78	$40.78		
6/15	884	41.222	38.14	38.14		
Totals:		88.020	$78.92	$78.92		

Past Due Royalties Collected	None
Total Dry Tons (Ore or Cons.) Shipped to Date	353.045
Expiration Date of Royalty Repayment	Not determined
Amount of Government Participation	" "
Total Royalty Payments to Date	$294.36
Percent of Loan Repayment	-- --

W. M. Traver

vj

cc Royalty File E 520 w/Settlement Sheets
Monthly Royalty Payment File
J. F. Shaw (2) w/settlement sheets
Chron.

Form No. O-4 (Rev) 10M-4-54 W&Y

WESTERN URANIUM PROJECT

LUCIUS PITKIN, INC.

Ore Purchasing Agent for United States Atomic Energy Commission

RECEIVED
JUL 12 1956

Receiving Station Edgemont — Grand Junction, Colorado May 24, 1956

Liquidation No. 727 — Lot No. 181 — Shippers Lot No.

Bought of Mining Research Corp. — A.E.C. License No. P-143

Address 5810 West 38th Ave ; Denver 14, Colorado

Type of Ore Uranium Bearing — Contract No. — Date Received 4-30-56

Mining Claim Gull Rail Road Cut — Mining District Edgemont — Pile No. 11

Lot No.	Wet Weight Pounds	H_2O	Dry Weight Pounds	SETTLEMENT ASSAYS U_3O_8	V_2O_5	$CaCO_3$	Cu	CONTENTS POUNDS U_3O_8	V_2O_5	$CaCO_3$	Cu
181	97,130	3.64	93,596	0.20	0.15	0.7		187.19	140.	655.	

U308	Per Lb.	Per Ton	Short Tons	Total Value
0.20% = 4 # at	3.50	14.00	46.7980	$655.17
Development allowance 4#	.50	2.00	"	93.60
TOTAL U308 PAYMENT		16.00	46.7980	$748.77
Haulage allowance 8 miles @ 6¢ per wet ton mile			48.5550	23.31
TOTAL				$772.08
V205				
0.15 % = 3 # at	.31	.93	46.7980	43.52
TOTAL GROSS PRICE				$815,60
Deductions:				- - -
NET PROCEEDS				$815.60

Correct OTH — Paid May 28, 1956
Checked HDY — Voucher No. 5-365
Approved HER — Check No. 1544

mw

I certify that I am the lawful owner or authorized Representative of the Lawful Owner, of the Ore described in this Settlement Sheet and have legal right to deliver the same to the Commission.
I certify that I hold A. E. C. Source Material License numbered above.
I hereby transfer to the Commission, effective as of the date of delivery of the ore, all my right, title and interest in and to said ore.
I will accept the amount as shown above as "Total Gross Price" in full settlement for sums due to me on account of the ore deliveries described herein.

Mining Reagearch Corp.
Seller or Agent

Buyers assays govern if Seller fails to submit his assays prior to acceptance of payment.

All rates paid are based on U. S. Atomic Energy Commission Published Schedules unless otherwise provided in contract applicable to ore delivery described herein.

By

Title

E 520

Form No. O-4 (Rev) 10M-4-56 W&Y

WESTERN URANIUM PROJECT

LUCIUS PITKIN, INC.

Ore Purchasing Agent for United States Atomic Energy Commission

RECEIVED
JUL 12 1956

Receiving Station Edgemont — Grand Junction, Colorado June 15 1956

Liquidation No. 884 — Lot No. 243 — Shippers Lot No.

Bought of Mining Research Corporation — A.E.C. License No. R-143

Address 5810 West 38th Avenue; Denver, Colorado

Type of Ore Uranium Bearing — Contract No. — Date Received 5/23/56

Mining Claim Gull Railroad Cut — Mining District Edgemont — Pile No. 11

Lot No.	Wet Weight Pounds	H_2O	Dry Weight Pounds	SETTLEMENT ASSAYS U_3O_8	V_2O_5	$CaCO_3$	Cu	CONTENTS POUNDS U_3O_8	V_2O_5	$CaCO_3$	Cu
243	86,370	4.55	82,443	0.21	0.17	0.3		173.13	140.	247.	

U308	Per Lb.	Per Ton	Short Tons	Total Value
0.21% = 4.2# at	3.50	14.70	41.2215	$605.95
Development allowance 4.2# at	.50	2.10	"	86.57
Premium in excess of 4# per ton (4.2# - 4#) = 0.2# at	.75	.15	"	6.18
TOTAL U308 PAYMENT		16.95	41.2215	$698.70
Haulage allowance 8 miles @ 6¢ per wet ton mile			43.1850	20.73
TOTAL				$719.43
V205				
0.17% = 3.4# at	.31	1.054	41.2215	43.45
TOTAL GROSS PRICE				$762.88
Deductions				—
NET PROCEEDS				$762.88

Correct OTH — Paid 6/15/56
Checked HDY — Vo. No. 6-223
Approved HER — Check No. 1870

le

I certify that I am the lawful owner or authorized Representative of the Lawful Owner, of the Ore described in this Settlement Sheet and have legal right to deliver the same to the Commission.
I certify that I hold A. E. C. Source Material License numbered above.
I hereby transfer to the Commission, effective as of the date of delivery of the ore, all my right, title and interest in and to said ore.
I will accept the amount as shown above as "Total Gross Price" in full settlement for sums due to me on account of the ore deliveries described herein.

Mining Reaearch Corporation
Seller or Agent

Buyers assays govern if Seller fails to submit his assays prior to acceptance of payment.

All rates paid are based on U. S. Atomic Energy Commission Published Schedules unless otherwise provided in contract applicable to ore delivery described herein.

By

Title

E 520

5-8-56

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

RECEIVED
MAY 7 - 1956

224 New Customhouse
Denver 2, Colorado

Date: May 3, 1956

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Royalty payments, Docket DMEA 2768 (Uranium), Contract Idm-E520, Mining Research Corporation (Gull-Sheep Canyon Claims), Fall River County, South Dakota

Period: April, 1956

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

Lot No.	Dry Tons	Royalty Due	Royalty Pd.
125 3/16/56	48.823	$66.48	$66.48
322 4/10/56	50.153	50.84	50.84
Totals:	98.976	$117.32	$117.32

Past Due Royalties Collected	None
Total Dry Tons (Ore or Cons.) Shipped to Date	265.025
Expiration Date of Royalty Repayment	Not determined
Amount of Government Participation	" "
Total Royalty Payments to Date	$215.44
Percent of Loan Repayment	-- --

W. M. Traver

W. M. Traver

vj
cc Royalty File E 520 w/Settlement Sheets
Monthly Royalty Payment File
~~T. A. Christensen~~
S. M. Runke
Chron.

Form [illegible]0-4 (Rev) 5M-1-56 W&Y

WESTERN URANIUM PROJECT

LUCIUS PITKIN, Inc.

Ore Purchasing Agent for United States Atomic Energy Commission

RECEIVED MAY 7 - 1956

Receiving Station Edgemont, South Dakota — Grand Junction, Colorado March 16, 1956

Liquidation No. 125 — Lot No. 31 — Shippers Lot No.

Bought of Mining Research Corporation — A.E.C. License No. P-T

Address 5810 West 38th Avenue; Denver 14, Colorado

Type of Ore Uranium Bearing — Contract No. — Date Received 2/24/56

Mining Claim Gull Railroad Cut — Mining District Edgemont — Pile No. 11

Lot No.	Wet Weight Pounds	H_2O	Dry Weight Pounds	SETTLEMENT ASSAYS U_3O_8	V_2O_5	$CaCO_3$	Cu	CONTENTS POUNDS U_3O_8	V_2O_5	$CaCO_3$	Cu
31	100,020	2.37	97,645	0.30	0.20	0.6	-	292.94	195.00	586.00	-

U308	Per Lb.	Per Ton	Short Tons	Total Value
0.30% = 6.0# at	$3.50	$21.00	48.8225	$1,025.27
Development allowance 6.0# at	.50	3.00	"	146.47
Premium in excess of 4# per ton 6.0# - 4# = 2.0# at	.75	1.50	"	73.23
TOTAL U308 PAYMENT		$25.50	48.8225	$1,244.97
Haulage allowance 8 miles @ 6¢ per wet ton mile			50.0100	24.00
TOTAL				$1,268.97
V205				
0.20% = 4.0# at	.31	1.240	48.8225	60.54
TOTAL GROSS PRICE				$1,329.51
Deductions:				
NET PROCEEDS				$1,329.51

Correct RLP
Checked TOH
Approved HER

sp

I certify that I am the lawful owner or authorized Representative of the Lawful Owner, of the Ore described in this Settlement Sheet and have legal right to deliver the same to the Commission.
I certify that I hold A. E. C. Source Material License numbered above.
I hereby transfer to the Commission, effective as of the date of delivery of the ore, all my right, title and interest in and to said ore.
I will accept the amount as shown above as "Total Gross Price" in full settlement for sums due to me on account of the ore deliveries described herein.

Mining Research Corporation
Seller or Agent

Buyers assays govern if Seller fails to submit his assays prior to acceptance of payment.

All rates paid are based on U. S. Atomic Energy Commission Published Schedules unless otherwise provided in contract applicable to ore delivery described herein.

By [illegible]

Title [illegible]

E520

Form No. O-4 (Rev) 5M-1-55 W&Y

WESTERN URANIUM PROJECT

LUCIUS PITKIN, Inc.

Ore Purchasing Agent for United States Atomic Energy Commission

Receiving Station Edgemont — Grand Junction, Colorado April 10 1956

Liquidation No. 322 — Lot No. 108 — Shippers Lot No.

Bought of Mining Research Corporation — A.E.C. License No. R-143

Address 5810 West 38th Avenue; Denver 14, Colorado

Type of Ore Uranium Bearing — Contract No. — Date Received 3/20/56

Mining Claim Gull Railroad Cut — Mining District Edgemont — Pile No. 11

Lot No.	Wet Weight Pounds	H_2O	Dry Weight Pounds	SETTLEMENT ASSAYS U_3O_8	V_2O_5	$CaCO_3$	Cu	CONTENTS POUNDS U_3O_8	V_2O_5	$CaCO_3$	Cu
108	103120	2.73	100306	0.23	0.15	0.1		230.70	150.	100.	

U308	Per Lb.	Per Ton	Short Tons	Total Value
0.23% = 4.6# at	3.70	16.10	50.1530	$ 807.46
Development allowance 4.6# at	.50	2.30	"	115.35
Premium in excess of 4# per ton (4.6# - 4#) = .6# at	.75	.45	"	22.57
TOTAL U308 PAYMENT		18.85	50.1530	$ 945.38
Haulage allowance 8 miles @ 6¢ per wet ton mile			51.5600	24.75
TOTAL				$ 970.13

V205				
0.15% = 3# at	.31	.93	50.1530	46.64
TOTAL GROSS PRICE				$1016.77
Deductions				—
NET PROCEEDS				$1016.77

Correct TOH
Checked RLP
Approved HLR

Paid 4/12/56
Vo. No. 4/149
Check No. 801

DIV A
Received.

APR 23 1956

BUREAU OF MINES
Denver, Colorado

le

I certify that I am the lawful owner or authorized Representative of the Lawful Owner, of the Ore described in this Settlement Sheet and have legal right to deliver the same to the Commission.
I certify that I hold A. E. C. Source Material License numbered above.
I hereby transfer to the Commission, effective as of the date of delivery of the ore, all my right, title and interest in and to said ore.
I will accept the amount as shown above as "Total Gross Price" in full settlement for sums due to me on account of the ore deliveries described herein.

Mining Research Corporation
Seller or Agent

Buyers assays govern if Seller fails to submit his assays prior to acceptance of payment.

By

All rates paid are based on U. S. Atomic Energy Commission Published Schedules unless otherwise provided in contract applicable to ore delivery described herein.

Title

E520

4-9-56

RECEIVED
APR 9 - 1956

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

224 New Customhouse
Denver 2, Colorado

Date: April 6, 1956

Memorandum

To: **Chairman, Operating Committee, DMEA**
From: **Executive Officer, DMEA Field Team, Region III**
Subject: **Royalty payments**, DMEA Docket 2768 (Uranium), Contract Idm-E520, Mining Research Corporation - S. Dakota

Period: March, 1956

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

Lot No.	Dry Tons	Royalty Due	Royalty Pd.
9809 2/10/56	40.367	$43.48	$43.48

Totals:	40.367	$43.48	$43.48

Past Due Royalties Collected	None
Total Dry Tons (Ore or Cons.) Shipped to Date	166.049
Expiration Date of Royalty Repayment	Not determined
Amount of Government Participation	" "
Total Royalty Payments to Date	$98.12
Percent of Loan Repayment	-- --

W. M. Traver

W. M. Traver

vj
cc Royalty File E 520 **w/Settlement Sheets**
Monthly Royalty Payment File
T. A. Christensen
E. O. Binyon
Chron.

APR 9 - 1956

Secretary

Secretary

F 15.26

1-23-56 dgm

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

RECEIVED JAN 23 1956

224 New Customhouse
Denver 2, Colorado

January 13, 1956

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region III

Subject: Royalty Payment - DMEA Docket 2768 (Uranium), Contract Idm-E520, Mining Research Corporation - N. Dakota

Enclosed are settlement sheets covering shipments of ore to Colorado Plateau Uranium Ore Project under Liquidation Nos. 8509, 8978 and 9116. Also Weight and Assay Certificates No. 2173 and 2206, which is no pay ore because it is below acceptable grade.

Royalty due on the above shipments has been requested from the operator.

W. M. TRAVER

W. M. Traver

Enclosures

vj

cc: Royalty File E520
Sec. Opr. Comm. (2) w/settlement sheets
E. O. Binyon w/settlement sheets
Royalty Report File
Chron.

Form No. O 4 8-54 20M

COLORADO PLATEAU URANIUM ORE PROJECT

American Smelting and Refining Company, Ore Purchasing Agent For
United States Atomic Energy Commission

RECEIVED JAN 23 1955

Receiving Station [illegible] Grand Junction, Colorado [illegible] 19[illegible]

Liquidation No. 8509 Lot No. [illegible] Shippers Lot No.

Bought of [illegible] A.E.C. License No. [illegible]

Address [illegible]

Type of Ore [illegible] Contract No. Date Received [illegible]

Mining Claim [illegible] Mining District [illegible] Pile No. [illegible]

Lot No.	Wet Weight Pounds	H_2O	Dry Weight Pounds	SETTLEMENT ASSAYS U_3O_8	V_2O_5	$CaCO_3$		CONTENTS POUNDS U_3O_8	V_2O_5	$CaCO_3$	
[illegible]	[illegible]	[illegible]	47180	0.37	0.35	0.5		171.37	[illegible]	[illegible]	

[illegible]	Per lb.	Per Ton	[illegible]	Total Value
0.3[illegible] - 7.[illegible] oz	3.50	25.90	23.5500	$610.99
Development allowance 1.[illegible] oz	.50	3.70	"	37.23
Premium in excess of [illegible] per ton (7.[illegible] - [illegible]) = 3.[illegible] oz	.73	2.31	"	[illegible]
[illegible]		32.13	23.5500	[illegible]
Haulage allowance [illegible] miles [illegible] of per ton per mile			26.7400	[illegible]
[illegible]				[illegible]
[illegible] 0.15[illegible] = 3.6[illegible] oz	.51	1.11[illegible]	23.5500	[illegible]
Total [illegible] Value				$796.63
[illegible]				[illegible]
[illegible]				$796.63

Received by
Robert E. Bell - Check # 378 - 99.[illegible]
Emmett Jacobs " 379 - 600.[illegible]

Sampler [illegible]
Checker [illegible]
Approved [illegible]

Paid September 22, 1955
Voucher No. 9/299
Check No. 02[illegible]

I certify that I am the lawful owner or authorized Representative of the Lawful Owner, of the Ore described in this Settlement Sheet and have legal right to deliver the same to the Commission.

I certify that I hold the A. E. C. Source Material License numbered above.

I hereby transfer to the Commission, effective as of the date of delivery of the ore, all my right, title and interest in and to said ore.

I will accept the amount as shown above as "Total Gross Price" in full settlement except for final quarterly adjustment for average V_2O_5—U_3O_8 ratio, for sums due to me on account of the ore deliveries described herein.

[illegible] Mining Research Corp.
By Clayton W. [illegible] Seller or Agent
Title President

Buyers assays govern if Seller fails to submit his assays prior to acceptance of payment.
All rates paid are based on U. S. Atomic Energy Commission Published Schedules.

E520

Form No. O-4 54 25M

COLORADO PLATEAU URANIUM ORE PROJECT

American Smelting and Refining Company, Ore Purchasing Agent For
United States Atomic Energy Commission

Receiving Station Edgemont — Grand Junction, Colorado October 28 1955
Liquidation No. 8678 — Lot No. 2152 — Shippers Lot No.
Bought of Mining Research Corporation — A.E.C. License No. R-143
Address 3810 West 38th Avenue, Denver 4, Colorado
Type of Ore Uranium Bearing — Contract No. A — Date Received 10/11/55
Mining Claim Call Railroad Cut — Mining District Edgemont — Pile No. 8

Lot No.	Wet Weight Pounds	H_2O	Dry Weight Pounds	SETTLEMENT ASSAYS U_3O_8	V_2O_5	$CaCO_3$		CONTENTS POUNDS U_3O_8	V_2O_5	$CaCO_3$	
2152	116300	3.65	113950	0.13	0.11	-		146.77	125.38	-	

U_3O_8	Per Lb.	Per Ton	Short Tons	Total Value
0.13% - 2.6# at	2.10	5.46	56.9900	$ 311.16
Development allowance 7.6# at	.90	1.30	"	74.09
TOTAL U_3O_8 PAYMENT		6.76	56.9900	$ 385.25
Haulage allowance 8 miles @ 6 ¢ per wet ton mile			59.1700	28.40
TOTAL				$ 413.65
V_2O_5 0.11 % - 2.2# at	.31	.662	56.9900	38.87
TOTAL GROSS PRICE				$ 452.52
Deductions:				- - - -
NET PROCEEDS				$ 452.52

Paid 10-31-55
Vo. No. 10/433
Check No. 1131

M.R.C.
Check No. 389
Nov 14, 1955

Correct CPK
Checked DPR
Approved HCJ

br

I certify that I am the lawful owner or authorized Representative of the Lawful Owner, of the Ore described in this Settlement Sheet and have legal right to deliver the same to the Commission.

I certify that I hold the A. E. C. Source Material License numbered above.

I hereby transfer to the Commission, effective as of the date of delivery of the ore, all my right, title and interest in and to said ore.

I will accept the amount as shown above as "Total Gross Price" in full settlement, except for final quarterly adjustment for average V_2O_5—U_3O_8 ratio, for sums due to me on account of the ore deliveries described herein.

Mining Research Corporation
By Clifton W. Kingsley
Title President
Seller or Agent

Buyers assays govern if Seller fails to submit his assays prior to acceptance of payment.
All rates paid are based on U. S. Atomic Energy Commission Published Schedules.

E520

Form No. O-4 8-54 25M

COLORADO PLATEAU URANIUM ORE PROJECT

American Smelting and Refining Company, Ore Purchasing Agent For
United States Atomic Energy Commission

Receiving Station: Edgemont, South Dakota — Grand Junction, Colorado: November 9, 1955

Liquidation No.: 9116 — Lot No.: 2203 — Shippers Lot No.:

Bought of: Mining Research Corporation — A.E.C. License No.: [illegible]-143

Address: 5035 West 38th Avenue, Denver 14, [illegible] Colorado

Type of Ore: Uranium Bearing — Contract No.: — Date Received: 10/28/55

Mining Claim: Gull Railroad Cut — Mining District: Edgemont — Pile No.: 8

Lot No.	Wet Weight Pounds	H_2O	Dry Weight Pounds	SETTLEMENT ASSAYS U_3O_8	V_2O_5	$CaCO_3$	CONTENTS POUNDS U_3O_8	V_2O_5	$CaCO_3$
2203	92,760	2.76	90,204	0.14	0.10	0.3	126.29	90.20	270.61

	Per Lb.	Per Ton	Short Tons	Total Value
U308				
0.14% = 2.8# at	$2.20	$6.44	45.1020	$290.46
Development allowance 2.8# at	.20	1.40	"	63.14
TOTAL U308 PAYMENT		7.84	45.1020	$353.60
Haulage allowance (8) 7 miles @ 4¢ per wet ton mile			46.3800	19.48
TOTAL				$373.08
V205				
0.10% = 2.0# at	.31	.620	45.1020	27.96
TOTAL GROSS PRICE				$401.04
Deductions:				
NET PROCEEDS				$401.04

Correct CPK
Checked DPM
Approved RCJ

sp

Paid 11/18/55
Vo. No. 11/254
Check No. 1403

Jessop Check No. 408 - $305.64
Gull - Check No 408 $47.70

I certify that I am the lawful owner or authorized Representative of the Lawful Owner, of the Ore described in this Settlement Sheet and have legal right to deliver the same to the Commission.

I certify that I hold the A. E. C. Source Material License numbered above.

I hereby transfer to the Commission, effective as of the date of delivery of the ore, all my right, title and interest in and to said ore.

I will accept the amount as shown above as "Total Gross Price" in full settlement, except for final quarterly adjustment for average V_2O_5—U_3O_8 ratio, for sums due to me on account of the ore deliveries described herein.

Mining Research Company
Seller or Agent

By
Title

Buyers assays govern if Seller fails to submit his assays prior to acceptance of payment.
All rates paid are based on U. S. Atomic Energy Commission Published Schedules.

E520

Form No. 0-7
9/54 (1M)

COLORADO PLATEAU URANIUM ORE PROJECT
American Smelting and Refining Company
Sole Purchasing Agent for
U.S. Atomic Energy Commission

November 16, 1955

Martin N. Gaines
Manager

Mining Research Corporation
5810 West 38th Avenue
Denver, Colorado

REPORT OF ASSAY RESULTS

LOT NO.	SCALE TICKET NO.	CLAIM	U_3O_8	V_2O_5	$CaCO_3$
2206	10545 10546 10612	Gull Railroad Cut	0.09	0.08	0.0

We regret to advise that the U_3O_8 is below the 0.10 percent minimum allowed under the U. S. Atomic Energy Commission schedule and cannot be paid for.

Yours very truly,

H. C. Jackson
Office Manager

Form No. 3 Rev. 5M 6-52

COLORADO PLATEAU URANIUM ORE PROJECT

AMERICAN SMELTING AND REFINING COMPANY
ORE PURCHASING AGENT FOR
UNITED STATES ATOMIC ENERGY COMMISSION

WEIGHT AND ASSAY CERTIFICATE

№ 2206

EDGEMONT STATION

Shipper: Mining Research Corp. A.E.C. License No. R-143 Shipper's Lot No. Pile No.

Date Weighed	R. R. Car No. Truck Lic. No.	Scale Ticket No.	Mileage	Wet Weight Pounds	H_2O	Dry Weight Pounds	Mining Claim	District	County	State	Pile No.
10/24/55	SD-51TD42	10546	8	12650	2.20	12364	Gull Patrick Cut	Edgemont	Fall River	S.D.	8
10/21/55	" 51TN12	10546	"	19470	2.50	17033					
10/21/55	" 51TN12	10612	"	15890	3.20	15382					
				46010	2.82	44711					

No Pay Ore

Sampling Foreman: Richard R. Pierce Date NOV 8

Assays		C.P.U.O.P.	Shipper	Umpire	Settlement
U_3O_8	%	0.09			
V_2O_5	%	0.08			
$CaCO_3$	%	0.0			

Chief Checker Date NOV 14

EXTRA COPY
D M E A
RECEIVED
DATE
5/14
5/14
CODE
110
700

224 New Customhouse
Denver 2, Colorado

May 8, 1957

Memorandum

To: Chairman, Operating Committee, DMEA

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

Subject: DMEA Docket-2769 (Uranium) Contract Idm-8520, Mining Research Corporation (McKnight, Lion group of claims) Fall River County, South Dakota - FINAL PAYMENT

Enclosed are two copies of a memorandum to T. A. Christensen, dated May 3, 1957, relative to final payment under the terms of the subject contract.

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

Enclosures

JDC:hh
cc: Konselman
MF-104 file, Reg. III
Chron.

224 New Customhouse
Denver 2, Colorado

May 3, 1957

Memorandum

To: T. A. Christensen

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

Subject: DMEA Docket-2768 (Uranium) Contract Idm-E520, Mining Research Corporation (McKnight, Lion group of claims) Fall River County, South Dakota FINAL PAYMENT

Reference is made to our memorandum of October 19, 1956, whereby we transmitted the final form MF-104, Operator's Monthly Report and Voucher, for the month of August, 1956, and requested that you withhold the amount of $163.39 from reimbursement to the Operator, pending performance of additional work under the contract. Work was not resumed by the Operator and the contract was automatically terminated effective January 1, 1957, in accordance with the provisions of Amendment No. 5.

The Operator's final report has been received therefore we recommend that final payment to the Operator 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, dated April 26, 1957.

$163 39
JJC
5/6/57 DMA 57-123

Basis for Final Payment

Total accepted costs	$22,861.95
Government participation at 90% of $11,932.20 and 75% of $10,929.75	18,936.31
Total prior payments	18,772.92
Balance due the Operator	$ 163.39

Original signed by
E. N. HARSHMAN

E. N. Harshman

JDC:hh
cc: Chem Op. Comm. (2)
Harshman
Konselman (2)
Townsend
Corres File, Reg. III
MF-104 File, Reg. III
Chron.

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

224 New Customhouse
Denver 2, Colorado

August 27, 1956

FINAL DISTRIBUTION MADE SEP 5 1956

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region III

Subject: DMEA Docket 2768 (Uranium) Contract Idm-E520, Mining Research Corporation (Edgemont Uranium Area) Fall River County, South Dakota - Operator's Monthly Progress Report for the month of July, 1956

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.

It is deemed that the Operator has complied with the intent of the contract, and the work for which payment is recommended is acceptable to the Government. No documentation is required for work performed under contracts prepared on Form MF-200A, therefore we recommend that payment be made on the following basis, contingent on your verification of arithmetical accuracy within the report.

Stage I Wagon drilling, 450 feet at $0.87 per foot- -$391.50
Government participation at 90 percent- - - - - - - - - -$352.35

Stage II Wagon drilling, 945 feet at $0.87 per foot- ~~822.15~~ 822.1578
Government participation at 75 percent- - - - - - - - - 616.61

Total Government participation for July, 1956 $ 968.96

Remarks

Date of Report - - - - - - - - - - - - - - - - - August 6, 1956
Date Received in Field Office - - - - - - - - - August 8, 1956
Date Received in Region Office - - - - - - - - August 22, 1956

W. M. TRAVER

W. M. Traver

Enclosures

JDC:jy

cc: MF-104 File E520
Sec. Op. Comm. (2)
Shaw (2)
Chron.

REGION III

Building 20
Denver Federal Center
Denver 2, Colorado
August 21, 1956

Memorandum

To: Executive Officer, DMEA Field Team, Region III

Through: John F. Shaw
Supervising Mining Engineer

From: Carl Belser

Subject: Docket DMEA 2768 (Uranium) Contract Idm-3520, Mining Research Corporation, Edgemont Uranium Area, Full River County, S. D. -- Progress report for July 1956

Drilling progress was inspected on July 15, 1956. All holes reported by the operator as drilled in July were found, and, in most cases, checked with the sample sacks on surface. The holes were also checked against the accounts kept by the driller, F. J. Moessman. Holes 1700, 1701, 1710, and 1711 are also numbered 1525, 1526, 1530, and 1531, respectively and the sample sacks looked very old. On questioning, Moessman said he had drilled them in July. Moessman also stated that the reason that he did not get cuttings to the bottom of all holes was that when the ground was damp the cuttings would not blow and that the hole would have to be abandoned. Apparently most of the uranium deposition is near a soft, damp, carbonaceous shale and the A.E.C. geologist believes that there may be black uranium minerals a short distance below. Nine holes were drilled in the McKnight area totaling 450 feet, and 18 holes in the Lyon and Sheep Creek area totaling 945 feet. The holes are shown on the operator's map and are listed below:

McKnight Area - Stage I holes

Hole No.	Depth Reported	Checked from sacks	Collar Elev.	Depth to Shale	Remarks
1710	62	old sacks	none	none	.03 36' to 42'
1711	60	"	"	"	.17 38' to 40'
1712	52	44	"	44	.08 23' to 27'
1700	52	52	"	51	Tr. 26' to 28'
1701	50	50	"	50	Tr. 22' to 24'
1714	36	32	"	-	(not probed by company - Slightly above background Geiger check)
1715	40	40	"	-	"
1716	50	50	"	-	"
1717	48	48	"	47	"
9	450				

Stage II holes

Hole No.	Depth Reported	Checked from sacks	Collar Elev.	Depth to Shale	Remarks Company	UERM
1646	62	62	None	none	Blank	Check with Geiger- no count
1647	52	50	"	"	"	
1648	62	62	"	"	"	
1649	48	46	"	"	"	
1650	62	62	"	"	"	no count
1651	62	60	"	"	"	
1652	62	60	"	58	"	
1656	54	50	"	none	"	
1657	41	40	"	"	"	
1658	60	60	"	"	"	no count
1659	61	60	"	58	"	
1641	46	44	"	none		Holes probed later
1642	30	no sacks	"	" no stake		"
1643	27	"	"	" "		"
1644	38	36	"	" "		"
1660	60	60	"	"	Not probed	"
1661	56	54	"	"	"	"
1662	62	62	"	"	"	"
18	945					

(Driller's notes check with amount claimed by operator)

The cost of 450 feet of Stage I drilling at $0.87 a foot is $391.50 and the cost of 945 feet of Stage II drilling at $0.87 a foot is $822.15.

Payment of 90 percent of $391.50 and 75 percent of $822.15, or a total of $968.96 is recommended.

It will be noticed that the operator's report of the total units of wagon-drilling in Stage I is in error and should read 11,173 units. The other amounts are correct.

Carl Belser
Mining Engineer

CB/mr
oct 6
Idm-E590
Chron

MF-104 (Rev.)
(April 1952)

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

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

RECEIVED
SEP - 7 1956

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

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:	[illegible]					
Drilling	[illegible]	[illegible]	[illegible]			
Bulldozing	[illegible]					
Crosscutting	[illegible]	[illegible]	[illegible]			
Drifting						
	[illegible]	[illegible]	[illegible]			
(2) Labor and Supervision:						
Labor	[illegible]	[illegible]	[illegible]			
Supervision						
Technical Services	[illegible]					
(3) Operating Mat'ls. and Supplies:	[illegible]	[illegible]	[illegible]			
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	[illegible]	[illegible]	[illegible]	1213.65	21,439.50	22,653.15

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

Date [illegible] *Payee [illegible]

Per Clyde W. Livingston Title [illegible]

*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:

$968.96

Signature [illegible]
(Authorized Certifying Officer)

Date 8/29/56 Vou. No. DMA 57-25

(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. Tb-E520 in accordance with the terms of the contract.

Signature [illegible] Title [illegible] Date 8/17/56

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature W. M. [illegible] Title Executive Officer Date AUG 27 1956

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 83-38476

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
SEP - 7 1956

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of July 1956 Docket No. DMEA [illegible] Contract No. [illegible]
Operator's Name Mining Research Corporation Minerals Uranium
Address 1213 Holcomb, Montrose, 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
Drifting								
Crosscutting								
Raising								
Shafts								
Winzes								
Drilling: Core [illegible]	[illegible]	None	None	2,1[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Churn [illegible]	[illegible]	None	None	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Auger								
Stripping [illegible]								
Trenching [illegible]	[illegible]	5[illegible]	[illegible]	[illegible]	[illegible]	.07	[illegible]	0.07
Test Pits [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.07	[illegible]	0.07
Roads and Trails								
TOTAL DISTRIBUTED COSTS		[illegible]	[illegible]	[illegible]				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS								

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 6, 1956 Operator Mining Research Corporation

Per Clifton W. Livingston Title President

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)

Carl Belue

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

NARRATIVE REPORT

July 1956

The accompanying progress map shows the position of holes drilled during the month. The position of holes drilled in the Lion area was specified under Amendment No. 6 and in a letter of May 21, 1956 from the D.M.E.A. Field Team, Region IV. The position of holes drilled in the McKnight area was specified under amendment No. 7 and in a letter of July 19, 1956 from the Field Team.

Eighteen holes were drilled in the Lion area to the north and to the west of the known area of mineralization on grid lines 300 feet apart. All of these holes were blank. All of these hole are beyond the limits of the known mineralized area. It must be concluded therefore that the area in unmineralized. However, before abonding the area, two lines of holes will be drilled as specidied in the letter of May 21 on Lion 13 and Lion 14.

Nine holes were drilled in the Mcknight area. Probing and logging has not been done yet for holes 1715,1716, 1717. Holes 1711 penetrated 8 feet of commercial grade ore averaging 0.17 percent U_3O_8 and holes 1712 penetrated 4 feet of sub-mineralization averaging 0.08 percent U_3O_8. It appears therefore that the geological inference of structurel control has been verified at least for one structure. The position of hole 1716 is properly located to intersect the extension of this structure if it continues to the south. The position of hole 1714 is properly located to intersect an inferred parallel structure.

Yours very truly,

Clifton W. Livingston

Clifton W. Livingston, President
Mining Research Corporation

L.M.E.A.

Drill Holes

July 1956

McKnight Area

Hole	Depth	Collar Elevation	Depth to Shale	Remarks
1710	62		None	.03 36' to 42
1711	60		None	.17 38' to 40
1712	52		44	.08 .23 to 27
1700	52		51	Tr. 26' to 28
1701	50		50	Tr. 22 to 24
1714	36			Not Probed
1715	40			Not Probed
1716	50			Not Probed
1711	48		47	Blank
	455			

Lion Area

Hole	Depth	Collar Elevation	Depth to Shale	Remarks
1646	62		None	Blank
1647	52		None	Blank
1648	62		None	Blank
1649	48		None	Blank
1650	62		None	Blank
1651	62		None	Blank
1652	62		58	Blank
1656	54		None	Blank
1657	41		None	Blank
1658	60		None	Blank
1659	61		58	Blank
1641	46		None	Blank
1642	30		None	Blank
1643	27		None	Blank
1644	38		None	Blank
1660	60		None	Not Probed
1661	56			Not Probed
1662	62			Not Probed
	945			

Drill Summary
Mining Research Corporation
July 1956

Stage I
20 Percent Participation McKnight area

Item	Ft. This Month	Previous Total To Date	Total To Date	Feet Remaining
Core Drilling	None	715	715	550
Wagon Drilling	450	10723	11173	3597

Stage II
75 Percent Participation Lion area

Item	Ft. This Month	Previous Total To Date	Total To Date	Feet Remaining
Core Drilling				
Lion Item 4	None	99	99	901
Sheep Canyon Item 6	None	50	50	1950
Wagon Drilling				
Lion Area Items 1 & 2	945	3513	4458	542
Lion Area Items 3 & 4	None	4999	4999	None

7/24/56

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

224 New Customhouse
Denver 2, Colorado

FINAL DISTRIBUTION MADE JUL 20 1956

July 16, 1956

Memorandum

RECEIVED
JUL 23 1956

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region III

Subject: DMEA Docket 2768 (Uranium) Contract Mm-E528, Mining Research Corporation (Edgemont Uranium Area) Fall River County, South Dakota - Operator's Monthly Progress Report for the month of June, 1956

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.

It is deemed that the Operator has complied with the intent of the contract, and the work for which payment is recommended is acceptable to the Government. No documentation is required for work performed under contracts prepared on Form MF-200A, therefore, we recommend that payment be made as follows, contingent on your verification of arithmetical accuracy within the report.

Stage I Wagon drilling, 116 ft. at $0.87 per foot---$100.92
Government participation at 90 percent----------$90.83

Stage II Wagon drilling, 394 ft. at $0.87 per foot- 342.78
Government participation at 75 percent---------- 257.08
Total amount of Government participation----- $347.91

Remarks

Date of Report----------July 3, 1956
Date Received in Field Office---------- July 6, 1956
Date Received in Region Office---------- July 13, 1956

W. M. TRAVER

W. M. Traver

Enclosures
JDC:jy
cc: MF-104 File E528
Sec. Op. Comm. (2)
Shaw (2) Chron.

DMEA
Date Rec'd.

JUL 13 1956

BUREAU OF MINES
Denver, Colorado

REGION III

Building 20
Denver Federal Center
Denver 2, Colorado
July 12, 1956

Memorandum

RECEIVED
JUL 23 1956

To: Executive Officer, DMEA Field Team, Region III

Through: John F. Shaw

From: E. O. Binyon

Subject: Docket DMEA 2768 (Uranium) Contract Idm-R580, Mining Research Corporation (Edgemont Uranium Area) Fall River County, S. Dak. - Progress report for June 1956

The operator's reports on the drilling completed in June 1956 were received July 6. On June 26 when a field check of the work reported for May 1956 was made, the drilling reported in the subject or June report had been completed and was also checked.

During the period 9 wagon drill holes with an average depth of 56.6 feet or a total of 510 feet were drilled. Of the 9 holes two holes numbered 1624 and 1626, 56 and 60 feet in depth respectively were drilled in Area I (Rev. Amend. 6) as shown on the map included with the operator's reports. The remaining 7 holes numbered 1645, 1653, 1654, 1655 and 1664 through 1666 with a total depth of 394 feet were drilled in the Lion claim group drilling Area on the Lion No. 3 and No. 4 claims.

A check showed all holes with the exception of hole No. 1645 to be located and spaced as shown on the operator's progress map. Hole 1645 is aligned with the row of holes 1656 - 1666 but is spaced at 147.5 feet rather than 170 feet from hole 1666.

No check was made of the trace mineralization reported in hole 1626, on the Week night No. 2 claim or holes 1654, 1664 and 1665 drilled in the Lion claim group area.

An error is noted on the MF-104A under "Units to Date" in the footage for Stage I Wagon drilling. The operator has apparently not added in the footage of 512 feet drilled in May. The correct footage should be 10,607 + 116, or 10,723 feet for the total units drilled to date under Stage I.

In a telephone conversation with C. W. Livingston on the morning of July 10, he was asked if the company intended to continue drilling under the contract as no work was in progress on June 26 when the field check of the May report was made. He was also informed that if no further work under the contract was intended it would be necessary to withhold $300.00 from the amount claimed in the correct MF-184 for a for a final report. The operator stated that at the time the property was visited no drilling was being done under the contract as a road was being constructed to reach showings of ore on the Sheep Canyon No. 1, No. 2 and No. 3 claims, and that the drill operator was doing the drilling and blasting required in the road construction. The operator further stated that at present drilling under the contract was in progress and that the company intended to continue the contract drilling.

The work reported by the operator as completed in June 1956 was checked and was done in conformance with the terms of the contract (amended). It is recommended that the operator be paid $347.91, which is $90.83 at 90 percent Government participation for the 100.92 claims for Stage I footage plus $257.08 or 75 percent of the $342.78 claimed for drilling under Stage II.

The contract expires January 1, 1957.

E. O. Bingon
E. O. Bingon
Mining Engineer

EOB/mv
Idm-X320
Chron
cc: 6

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1036.5

RECEIVED
JUL 23 1956

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of June, 1956 Docket No. DMEA _____ Contract No. _____
Operator's Name Mining Research Corporation Minerals _____
Address 4215 Balsam St. Wheatridge, Colorado
Contract Amount, $ 52,873 Government Participation 75/90 % Amount, $ 42,307.20

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: Stage I	McKnight	Area				
~~Drilling~~ Core	None	2166.45	2166.45			
~~Blasting~~ Wagon						
Crosscutting 116 ft. at	100.92	9228.09	9329.01			
Drifting .87						
Stage II Lion and Sheep Canyon Area						
(2) Labor and Supervision:						
Labor Core	None	451.47	451.47			
Supervision Wagon 394						
Technical Services at 87	342.78	9149.79	9492.57			
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	443.70	20995.80	21,439.50	443.70	20,995.80	21,439.50

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

Date July 3, 1956 Payee Mining Research Corporation

Per Clifton W. Livingston Title President

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

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

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

$347.91

Signature NS
(Authorized Certifying Officer)

Date 7/18/56 Vou. No. DMA 57-8

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

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

Signature E.O. Denyon (#34791) Title Mining Engineer Date July 10, 1956

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature For W.M. Towner Title Executive Officer Date JUL 16 1956

MONTHLY REPORT OF OPERATOR

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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-194A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
JUL 23 1956

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of June 1956 Docket No. DMEA Contract No. Idm. E-520

Operator's Name Mining Research Corporation Minerals Uranium

Address 4215 Balsam St. Wheatridge, 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
Drifting								
Crosscutting								
Raising								
Shafts								
Winzes								
Drilling: Core Stage I	Ft.	None	None	2,166.45	715	3.03	1595	3.03
Churn Stage II	Ft.	None	None	451.47	149	3.03	3000	3.03
Auger								
Stripping Wagon Drill								
Trenching Stage I	Ft.	100.92	116	9,329.01	10211 (10973)	.87	14,770	0.87
Test Pits Stage II	Ft.	342.78	394	9,492.57	10911	.87	30,000	0.87
Roads and Trails								
Total Distributed Costs		443.70	510	21,439.50				Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Total Costs								

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 3, 1956 Operator Mining Research Corporation

Per Clifton W. Livingston Title President

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)

Ed Bunyon

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

5810 West 38th Denver 14, Colorado

RECEIVED
JUL 23 1956

June 1956

Mr. W. M. Traver
Executive Officer
D.M.E.A. Field Team Region 5
Defense Minerals Exploration Adm.
224 New Customshouse
Denver 2, Colorado

Atten.
John F. Shaw
Supervising Mining Engineer
Bldg. 20
Denver Federal Center
Denver 2, Colorado

Gentlemen:

Enclosed you will find the original and 4 copies of our monthly progress report and unit cost summary statement for June, 1956.

Yours very truly,

Clifton W. Livingston

Clifton W. Livingston , President
MINING RESEARCH CORPORATION

NARRATIVE REPORT

June 1956

RECEIVED
JUL 23 1956

The accompanying progress map shows the position of holes drilled in the Lion area and in the McKnight area. Holes 1654, 1664, and 1665 in the Lion area on the northwest extension of the Lion # 8 orebody showed only trace mineralization.

Hole 1626 in the McKnight area likewise showed only trace mineralization.

Only 9 holes were drilled during the month. Seven were in the Lion area. Two were in the McKnight area. Because of unfavorable rim topography it was found impossible to get the drill to the approved position for holes 1600-1602, 1612-1614, 1620-1623 and 1615-1619. Accordingly none of these holes will be drilled.

Yours very truly,

Clifton W. Livingston

Clifton W. Livingston, President
MINING RESEARCH CORPORATION

MINING RESEARCH CORPORATION

DRILL SUMMARY

June 1956

RECEIVED
JUL 23 1956

Stage I
(90 Percent Participation)
McFnight area

Item	Ft. This Month	Previous Total To Date	Total To Date	Feet Remaining
Core Drilling	None	715	715	880
Wagon Drilling	116	10607	10723	4047

Stage II
(75 Percent Participation)
McFnight area

Item	Ft. This Month	Previous Total To Date	Total To Date	Feet Remaining
Core Drilling				
Lion area Item 4	None	99	99	901
Sheep Canyon Item 6	None	50	50	1950
Wagon Drilling				
Lion area Item 1&2	394	3119	3513	1487
Item 3&4	None	4999	4999	None

D.M.E.A.

Drill Holes

June 1956

McKnight Area

Hole No.	Hole Depth	Collar Elevation	Depth To Shale	Remarks on Mineralization
1624	56		No Shale	Blank
1626	60		No Shale	.03- 42to44
Total	116			

Lion Area

Hole No.	Hole Depth	Collar Elevation	Depth To Shale	Remarks on Mineralization
1645	54		No Shale	Blank
1653	52		No Shale	Blank
1654	56		No Shale	Tr. 16-22
1655	62		No Shale	Blank
1664	62		62	Tr. 28-30
1665	54		52	Tr. 26-28
1666	54		No Shale	Blank
Total	394			

7-12-56

FINAL DISTRIBUTION

MADE JUL 9 1956

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

Administrative Audit Difference Statement

[illegible] Decorah Corporation
[illegible] Salem Street,
Westfield, Colorado

Date: July 6, 1956
Payee's
Reference: Apr 1956

DMEA-2768

Gentlemen:

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

Amount Claimed $ 45.44

Difference $

Amount Approved $ * 145.44

The reason for the difference was due to:

* Reinstate 100.00 withheld from the July - August 1955 voucher.

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

Very sincerely yours,

N. E. Stokes
Audit Section

RECEIVED
JUL 12 1956

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

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

224 New Customhouse
Denver 2, Colorado

July 5, 1956

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region III

Subject: DMEA Docket 2768 (Uranium) Contract Idm-E520, Mining Research Corporation (Edgemont Uranium Area) Fall River County, South Dakota - Operator's Monthly Progress Report for the month of May, 1956

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

It is deemed that the Operator has complied with the intent of the contract, and the work for which payment is recommended is acceptable to the Government. No documentation is required for work performed under contracts prepared on Form MF-200A, therefore, we recommend that payment be made for 90 percent of the amount reported by the Operator on Form MF-104, contingent on your verification of arithmetical accuracy within the report.

In addition to reimbursement on the basis of the enclosed voucher, please reinstate the amount of $300.00 withheld from reimbursement to the Operator in processing Form MF-104, Operator's Monthly Report and Voucher, for the period July-August, 1955 which was forwarded to you by memorandum of May 18, 1956.

Remarks

Date of Report----------June 15, 1956
Date Received in Field Office---------- June 19, 1956
Date Received in Region Office---------- July 5, 1956

W. M. TRAVER

W. M. Traver

Enclosures
JWT:jy
cc: MF-104 File E528
Sec. Op. Comm. (2) Townsend
Shaw (2) Chron.

REGION III

Building 20
Denver Federal Center
Denver 2, Colorado
July 3, 1956

Memorandum

DMEA
Date Rec'd.
JUL 5 1956
BUREAU OF MINES
Denver, Colorado

To: Executive Officer, DMEA Field Team, Region III

Through: John F. Shaw
Supervising Mining Engineer

From: E. O. Binyon

Subject: Docket DMEA 2768 (Uranium) Contract I4n-E520, Mining Research Corporation (Edgemont Uranium Area) Fall River County, S. Dak. -- Progress report for May 1956

The subject reports were received June 25, and a field check of of the work reported by the operator was made June 26.

Eleven holes numbered 1604 through 1609, 1611, 1625, and 1627 through 1629 with a total footage of 512 feet were drilled during the period. A Brunton tape survey shows the holes to be located and spaced as shown on the map accompanying the progress reports and to be within the boundaries of Drill Area III. A check of hole depths showed some caving in all holes, the amount of caved material varying from .25 feet in hole 1629 to as much as 4.2 feet in hole 1604. However, the sample sacks left at each hole show the depths as reported, and the footage claimed as drilled is no doubt correct. No check of the trace mineralization reported for holes 1607, 1625 and 1628 was made.

On the MF-104A under "Units to Date" for Stage I Wagon Drill the operator has failed to include the footage of 512 feet drilled during the period covered by the reports. The correct figure should be 10,607 (10,095 + 512).

The drilling as reported and checked was done in conformance with the terms of contract (amended) and it is recommended that the operator be paid $400.90 or 90% of the total expenditure of $445.44. The contract expires January 1, 1957.

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

EOB/mw
cc: 6
I4n-E520
Chron

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

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

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

Month of May, 195[illegible] Docket No. DMEA [illegible] Contract No. [illegible]-520
Operator's Name Mining Research Corporation Minerals Uranium
Address [illegible] Elsom Westcliffe, Colorado
Contract Amount, $[illegible] Government Participation: [illegible] % Amount, $[illegible]

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:	Sugar Loaf Target Area					
Drilling	None	216.45	216.45			
Bulldozing	None					
Crosscutting 12 ft. at	[illegible]	[illegible]	[illegible]			
Drifting	None					
	Lion and Sheep Canyon Area					
(2) Labor and Supervision:						
Labor	None	1,1[illegible].47	1,1[illegible].47			
Supervision	None	3,1[illegible].79	3,1[illegible].79			
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	[illegible]	20,[illegible]	2[illegible]	445.44	20,550.36	20,995.80

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

Date June 15, 1956 *Payee Mining Research Corporation

Per Clayton W. Spencer Title President

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

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

RECEIVED
JUL 12 1956

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

$ 700.90

Signature [illegible]
(Authorized Certifying Officer)

Date 7/9/56 Vou. No. DMA 57-5

(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. Edm E 520 in accordance with the terms of the contract.

Signature E O Bunyon ($400.90) Title Mining Engineer Date June 29, 1956

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature W. M. Lamy Title Executive Officer Date JUL 5 1956

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 83-38476

Form MF-104A
(April 1952)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of May 1956 Docket No. DMEA _____ Contract No. [illegible]

Operator's Name Mining Research Corporation Minerals Uranium

Address [illegible] St. [illegible], Colorado

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts								
Winzes								
Drilling: Core [illegible]	ft.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Churn [illegible]	ft.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Auger								
Stripping [illegible]								
Trenching [illegible]	ft.	[illegible]	[illegible]	[illegible]	10607 [illegible]	[illegible]	[illegible]	[illegible]
Test Pits [illegible]	ft.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Roads and Trails								
TOTAL DISTRIBUTED COSTS		[illegible]	[illegible]	[illegible]				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS								

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 June 12, 1956 Operator Mining Research Corporation

Per Clifton W. Livingston Title President

Clifton W. Livingston

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)

RECEIVED
JUL 18 1956

INSTRUCTIONS

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

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

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

GPO 83-38475

NARRATIVE REPORT
May 1956

Work was resumed under amendment No. 6 of the contract. All during the month of May drilling was confined to the McKnight deeded land of Areas III, Stage I. The limits of Areas III, as revised under admendment No. 6 are shown on the progress map. The position of drill holes is that approved in a joint conference between Townsend, Traver, Harshman and Livingston. It now is evident that holes 1600 to 1603 and 1612 to 1614 as orginally planned can not be drilled because of rim topography.

McKnight Area

Eleven holes were drilled. Three of these holes 1607, 1625 and 1628 encountered traces of uranium. The others were blank

Respectfully Submitted

Clifton W. Livingston

Clifton W. Livingston
President

P. S. May 21, 1956 is the date of resumption of work under amendment No. 6.

RECEIVED
JUL 12 1956

NINING RESEARCH CORPORATION
DRILL SUMMARY
May 1956

Stage I

(90 Percent Participation)

+Figures revised to agree with D.M.E.A. as of May 1, 1956

Item	Ft. This Month	+Previous Total To Date	Total to Date	Feet Remaining
Core Drilling	None	715	715	880
Wagon Drilling	512	10095	10607	4163

Stage II

Core Drilling	Feet This Month	+Previous Total	Total To Date	Feet Remaining
Lion Area Item 4	None	99	99	901
~~Lion Area Item~~ Sheep Canyon Item 6	None	50	50	1950

Wagon Drilling	Feet This Month	Previous Total	Total To Date	Feet Remaining
Lion Area Item 1&2	None	3119	3119	1881
Lion Area Item 3&4	None	4999	4999	None

MINING RESEARCH CORPORATION
N.M.E.A. DRILL HOLE
May 1956

Hole No.	Depth Hole	Collar Elevation	Depth Shale	Remarks on Mineralization
1604	54		No Shale	Blank
1605	52		No Shale	Blank
1606	54		No Shale	Blank
1607	52		56	Tr. 40-42
1608	38		36	Blank
1609	28		No Shale	Blank
1611	34		No Shale	Blank
1625	52		No Shale	Tr. 42-44
1627	48		No Shale	Blank
1628	56		No Shale	Tr. 40-42
1629	44		No Shale	Blank
	512			

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

RECEIVED
MAY 28 1956

Administrative Audit Difference Statement

Mining Research Corporation
1215 Colfax Street,
Westminster, Colorado

FINAL DISTRIBUTION
MAY 24 1956
MADE

Date: May 23, 1956
Payee's Reference: July and August 1955

DMEA-2768

Gentlemen:

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

Amount Claimed	$ 1,270.72	92.22	@ 90%
		1,185.01	@ 75%
Difference	$ 585.51	205.32	@ 90%
		380.19	@ 75%
Amount Approved	$ * 592.33		

The reason for the difference was due to:

Disallows:

Stage I, 235 ft. Wagon Drilling @ .87 per ft.	205.32
Stage II, 437 ft. Wagon Drilling @ .87 per ft.	380.19
	585.51

Outside approved drilling area.

* Withhold: $300.00 pending resumption of work.

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

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

RECEIVED
MAY 28 1956

224 New Customhouse
Denver 2, Colorado

May 18, 1956

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region III

Subject: DMEA Docket 2768 (Uranium) Contract Idm-E520, Mining Research Corporation (Deadhorse Canyon, Edgemont Uranium area) Fall River County, South Dakota - Operator's Monthly Progress Report, for the period July-August, 1955

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

It is deemed that the Operator has complied with the intent of the contract, and the work for which payment is recommended is acceptable to the Government. No documentation is required for work performed under contracts prepared on Form MF-208A. We recommend that payment be made on the following basis, contingent on your verification of arithmetical accuracy within the report and subject to subsequent review of contract expenditures by the Contract Administration and Audit Division, DMEA.

Disallowances

The contract work has been reviewed from the beginning of the project to date. A number of wagon drill holes previously reported are to be disallowed for the reasons given below.

Stage I, Wagon Drilling

Hole No.	Area	Month Reported	Reason for disallowance	Footage
417	I	June, 1953	Outside approved drilling area	58
655	I	Nov. 1954	Outside approved drilling area	58

Stage I, Wagon Drilling Continued

Hole No.	Area	Month Reported	Reason for disallowance	Footage
419	III	June, 1953	Outside approved drilling area	60
420	III	June, 1953	Outside approved drilling area	60
Total Stage I wagon drill footage to be disallowed herewith				236

Stage II, Wagon Drilling

Hole No.	Area	Item Under Am. No. 1	Month Reported	Reason for disallowance	Footage
1093	Lion	(1) & (2)	Oct. 1954	Outside approved drilling area	52
1095	Lion	(1) & (2)	Oct. 1954	Outside approved drilling area	60
1097	Lion	(1) & (2)	Oct. 1954	Outside approved drilling area	30
1099	Lion	(1) & (2)	Oct. 1954	Outside approved drilling area	56
1100	Lion	(1) & (2)	Oct. 1954	Outside approved drilling area	10
—	Lion	(3) & (4)		Authorized footage exceeded	39
84	Sheep Canyon	(6)	Oct. 1954	Outside approved drilling area	190
Total Stage II wagon drill footage to be disallowed herewith					437

Reconciliation with Form MF-104 for July - August, 1955

Amount reported by Operator on Form MF-104 for July - August, 1955

Stage I, 106 feet wagon drilling at $0.87 per foot----------$92.22
Government participation at 90%-------$83.00
Stage II, 1363 feet of wagon drilling at $0.87 per foot-----1,185.81
Government participation at 75%------889.36

Total Government participation prior to disallowances----------$972.36

Amount to be disallowed

Stage I, 236 feet of wagon drilling
at $0.87 per foot----------$205.32
Government participation at 90%----------$184.79
Stage II, 437 feet of wagon drilling
at $0.87 per foot---------- 380.19
Government participation at 75%---------- 285.14

Government participation disallowed----------469.93

Approved Government participation----------$ 502.43
Amount to be withheld pending resumption of work 300.00

Balance due the Operator----------$202.43

Remarks

Date of Report----------December 6, 1955
Date Received in Field Office---------- January 5, 1956
Date Received in Region Office---------- January 26, 1956
Reason for delay: The report was held in the Regional Office pending execution of Amendment No. 6 which clarifies the drilling areas.

W. M. TRAVER

W. M. Traver

Enclosures

JDC:jy
cc: MF-104 File E520
Sec. Op. Comm. (2)
Runke
Townsend w/copy of Engr's. Report
Chron.

DMEA
Date Rec'd

JAN 23 1956

BUREAU OF MINES
Denver, Colorado

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

January 20, 1956

RECEIVED

MAY 28 1956

Memorandum

To: [illegible] Traver, Executive Officer, DMEA Field Team, [illegible]

From: L. [illegible] Minton

Subject: Progress Reports for July-August 1955 (Revised), Docket DMEA 2760 (Uranium), Contract Ion-5520, Minerals Research Corporation, Fall River County, S. Dak.

Transmitted herewith in quintuplicate are the following:

1) Bureau of Mines Engineer's Memorandum Report

2) Operator's Narrative Report, with hole logs, drill summary, and 5 prints of a core rose map

3) [illegible]7-10A and [illegible]6-10A

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

The work was performed in conformance with the terms of the contract and payment of $972.36, the government's share of the $1,2[illegible].03 claimed by the operator, is recommended.

L. [illegible] Minton

cc: Traver (2)
Files

Rapid City Department of Mines
Board of Mines Warden
Rapid City, South Dakota

RECEIVED
MAY 28 1956

January 20, 1956

Report to:

To: [illegible] Weaver, Executive Officer, [illegible] Field Team, [illegible]

From: [illegible] Kingon

Subject: Progress Report (Revised) for July-August 19[illegible], Project 270[illegible] (Uranium), Contract No. [illegible]-520, Mining Research Corporation, Hall Silver County, S. Dak.

The original report was submitted September 16, and a field check was made September 21 and again on September 26. In checking the report and transposing the holes reported on to a master map, it was noted that nine of the holes had apparently been drilled outside the drilling areas specified in the contract; and also the footage allotted to geologic and structural drilling had been exceeded. The second inspection was made to check the exact location of all holes that appeared to have been drilled in non-conformance with the terms of the contract.

A memorandum report showing the disallowances of footages was prepared and transmitted to the Denver office on October 6; however, the operator's report apparently was not in order and it was returned to this office October 17, with a request that it be returned to the operator for correction and revision. The reports were returned to the operator with a letter explaining the footage disallowances and the suggestion that revised Monthly Progress and Drill Hole Reports be submitted.

The operator called at the office December 5 to discuss the disallowances, and while he objected to them, he stated that corrected reports would be submitted. The revised report was received in this office January 5.

In the original report, 12 wagon drill holes, with a total footage of 2,306 feet, were reported drilled in the McKnight and Alton drilling areas. Of this total, 11 holes, with a total footage of 709 feet, were reported drilled in the McKnight area and 29 holes (5 for line and grid drilling and 23 for offset or structural drilling) with a total footage of 1,597 feet, were reported for the Alton area.

Of the 1[illegible] holes drilled in the McKnight area, 11 holes with a total footage of 547 feet, were disallowed, 9 with a total footage of 510 feet being outside the drilling, and 2 with a total of 37 feet being incomplete. The holes, with the dates and the claims on which they were drilled, are listed below:

McKnight No. 2		McKnight No. 3		McKnight No. 5	
Hole No.	Depth	Hole No.	Depth	Hole No.	Depth
1 12	60	1527	15	1517	52
1 13	60	1 2[illegible]	22	1 19	60
1 14	52			1 20	16
1 15	60				
1 1[illegible]	60				
1 21	60				
Total	352		37		158
Total footage:	547				

Holes 1509, 1510 and 1511, with a total footage of 162, were the only holes allowed for Stage I drilling on the McKnight area.

Of the 28 holes or 1,597 feet reported for the Lion area, 232 feet were disallowed, as this footage was in excess of the footage allotted under the contract.

In the accompanying revised report the operator has included only three holes, Nos. 1509, 1510 and 1511, or 162 feet for Stage I drilling in the McKnight area. From this footage he has deducted 16 feet which was claimed for hole 637 (and disallowed) in the January-February 1955 report. The operator then made a re-claim for the hole as hole No. 670 and payment was made. However, hole 670 had also been drilled and paid for and as the operator was unable to find the error, he has made no claim for this footage in the revised report.

None of the three holes drilled under Stage I in the drilling area on the McKnight claims encountered mineralization. However, two holes, Nos. 1517 and 1519 on the McKnight No. 5 southwest of Area I and just outside the north end of Area III, cut one grade mineralization. Hole 1517 had 4 feet of .11 percent U_3O_8 at depth 41 to 45 feet, and 1519 cut 2 feet of .19 percent U_3O_8 at depth 41 to 43 feet.

Offset drilling in the Lion area disclosed ore grade mineralization, with a grade range from .10 to .20 percent U_3O_8, in 11 of the 28 holes drilled along this particular structure, and 6 holes had mineralization with a grade of .03 to .08 percent U_3O_8. The drilling did not result in discovery of a new ore body, but has more definitely outlined the deposit as reported in the January-February report and probably made available more geologic data on which to base any additional exploration.

The drilling, as reported in the revised report, was done in conformance with the terms of the contract and it is recommended that the operator be paid the government's share of the 1,2[illegible].03 claimed, which as shown below, is [illegible]972.36.

		Total Amount	Gov't. Share at 20%
Share I, Lokini Area			
Holes 1[illegible]09, 1[illegible]10, 1[illegible]11	162 ft.	1[illegible]	12[illegible]
Less hole (637 or 670)	56 ft.	[illegible]	[illegible]
	106 ft. [illegible].87/ft.	[illegible]72.27	[illegible]
Share II, Lion Claim Area (75% participation)			
Items 2 and 4	1363 ft. [illegible].7	11[illegible].01	[illegible].36
Totals	1[illegible]25*	127[illegible].03	972.36

* Total footage drilled without deduction for holes 637 or 670

The contract expires April 1[illegible], 195[illegible].

[illegible] Simpson

cc: Traver (9)
Files

5810 W. 38th Ave., Denver 14, Colo

RECEIVED
MAY 28 1956

December 30, 1955

RECEIVED
JAN 5 1956
Dept. of Interior
Bureau of Mines
Rapid City,
South Dakota

Mr. R. M. Traver,
Executive Officer
D.M.E.A. Field Team, Region IV
Defense Minerals Exploration Adm.
234 New Custom House
Denver 2, Colorado

Attn: E. O. Binyon

Dear Mr. Binyon:

I submit herewith the revised July-August, 1955 monthly progress report and unit cost statement under contract No. 27o3-Idm E-520.

I wish also formally to request a contract recess until June 1, 1956. On December 5, 1955 I visited Mr. E. O. Binyon to discuss interpretation of our contract and its various amendments. I find it impossible to interprete the contract and have requested the field team to approve all holes in the future before they are drilled.

Mr. Binyon has called to my attention that amendment No. 4 provides that ores shipped from a property that has not been certified as to discovery now are subject to repayments. This change of D.M.E.A. policy now bears upon ore being shipped to Edgemont by Isaccs and Marten under a working agreement with Mining Research Corporation. Our working agreement provides that "in the event such area is construed to fall within the D. M.E.A. provisions for repayment of exploration loans that the repayment shall be made 75 percent by Isaccs and Martin and 25 percent by Mining Research Corporation.

Will you please inform us the proper procedure to follow in making loan repayments from ore shipments so that we may advise Isaccs and Martin and calculate amounts currently due.

Yours very truly,
Clifton W. Livingston
Clifton W. Livingston, Pres.
Mining Research Corporation

CWL:hjl

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

RECEIVED
MAY 28 1956

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of July-August, 195 5 Docket No. DMEA 2766 Contract No. Idm E-520
Operator's Name Mining Research Corporation Minerals Uranium
Address 4215 Balsam Street, Wheatridge, Col.
Contract Amount, $ 52,873.00 Government Participation: 75% 90% Amount, $ 42,307.20

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: Stage I McKnight Area						
Drilling (Core)	none	2,166.45	2,166.45			
Bulldozing (Wagon						
Crosscutting 106 at.87	92.22	8,895.75	8,987.97			
Drifting						
Stage II Lion & Sheep Canyon Areas						
(2) Labor and Supervision:						
Labor (Core)	none	431.47	431.47			
Supervision (Wagon)	1,185.81	8,344.17	9,529.98			
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	1278.03	19857.84	21135.87	692.52	19,857.84	20,550.36

I certify that the above bill is correct and just and that payment therefor has not been received.
Date Dec. 6, 1955 Payee Mining Research Corp.
Per Clifton W. Livingston Title President

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

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Withheld 300.00

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

$ 202.43

Signature
(Authorized Certifying Officer)
Date 5/23/56 Vou. No. DMA 56-110
(See other side)

(For Government use only)

For payment of $972.36

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. 10m-F590 in accordance with the terms of the contract.

Signature E. M. Benson Title Mining Engineer Date Jan. 19, 1956

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature W. M. Shaver Title Executive Officer Date MAY 18 1956

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

U. S. GOVERNMENT PRINTING OFFICE 205675

Form MF-104A
(April 1952)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
MAY 28 1956

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of July-Aug. 195 3 Docket No. DMEA 2768 Contract No. Ida E-329
Operator's Name Mining Research Corporation Minerals Uranium
Address 4215 Balsam Street, Westridge, 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
Drifting								
Crosscutting								
Raising								
Shafts								
Winzes								
Drilling: Core Stage I	ft	none	none	2,166.43	715	3.03	1595	3.03
Churn Stage II	ft	none	none	451.47	149	3.03	3000	3.03
Auger								
Stripping Wagon Drill								
Trenching Stage I	ft	92.23	* 100	8,987.97	10,331	.87	14770	0.87
Test Pits Stage II	ft	1185.81	1343	9,529.98	10,954	.87	30000	0.87
Roads and Trails								
TOTAL DISTRIBUTED COSTS		1278.03	1449	21135.87				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		1278.03		21135.87				$2,873.00

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

REMARKS:

Date Dec. 6, 1955 Operator Mining Research Corp.
Clifton W. Livingston
Per Clifton W. Livingston Title President

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)

* See adjustment Hole 670 Summary Sheet credited 50 feet

(For Government use only)

INSTRUCTIONS

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

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

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

GPO 83-38475

NARRATIVE REPORT
JULY--AUGUST, 1955
(Revised)

RECEIVED
MAY 28 1953

Work was resumed in July under amendment No. 4 of the contract. We now find that the field team has interpreted the wording of amendment No. 4 differently than Mining Research Corporation and this interpretation brings upon us great injustice. We reluctantly submit this revised report.

McKnight Area

Holes 1509, 1510, 1511 were drilled to search for the extension of a structure known to pass between holes 602 and 603. The holes were found to be barren, but it is not known whether the strike of the structure is different than assumed or whether the structure has passed between holes 1509, 1510, and 1511.

Sheep Canyon Area

Open cut work is in progress to explore the rim adjacent to the proposed drill area and to determine whether the area can better be explored by underground workings than by surface drilling. This exploratory work has produced ore that has been shipped to the Edgemont orebuying station. (See also attached letter of transmittal).

Lion Area

Exploration in the Lion area was directed towards determinin g the trend of a structural or stratigraphic break described first in our Jan-Feb, 1955 narrative report.

Holes 1416, 1401, 1400, 1269 and I4 show commercial grade mineralization along the strike of the break and indicate that the structure contains commercial grade ore for a length in excess of 900 feet. The structure is not a simple fracture, but appears to consist of a series of en-echelon breaks that are difficult to follow.

The relation of the commercial grade ore to the structure and the relation of the structure to the outline of the low grade ore shoot suggests that the low grade ore is a halo derived from vein-like deposits of commercial grade ore. The position of the veins may be inferred by mapping subsurface geology. The veins do not reach the surface, but die out 20 feet below the surface at the contact with interbedded sandstone and shale which caps the area.

Respectfully submitted,

Clifton W. Livingston

Clifton W. Livingston

MINING RESEARCH CORP.

Drill Summary

July-August 1955

(Revised)

RECEIVED
MAY 28 1956

Stage I
(90 percent participation)

Item	Ft. This Month	Previous Total To Date	Total To Date	Feet Remaining
Core Drilling	none	715	715	880
Wagon Drilling	162	10,225	10,387	4383
+Less Adjustment Hole 670	56			
Total	106	10,225	10,331	4439

oooOooo

Stage II
(75 percent)

Core Drilling	none			
Lion Area Item 4	none	99	99	901
Sheep Canyon Item 6	none	50	50	1950
Total		149	149	
Wagon Drilling				
Lion Area Items 182	none	3327	3327	1673
Lion Area Items 364	1363	3636	4999	1
Total Lion Area	1363	6963	8326	

+ Note: Error due to duplicating footage previously reported.

MINING RESEARCH CORPORATION

D. M. E. A. Drill Holes

July and August 1955
(revixed)

STAGE I(McKnight Area)

Hole No.	Depth Hole	Collar Elevation	Depth Shale	Remarks on Mineralization
1509	54		54'	Blank
1510	56		56'	Blank
1511 m	52		52	Blank
Total	162			

MINING RESEARCH CORPORATION

D: M. E. A. Drill Holes

July and August 1955

STAGE II (Lion Area)

Item 3 & 4 (Offset Holes and Structural Breaks)

Hole	Hole Depth	Collar Elevation	Depth Shale	Remarks on Mineralization	
1414	58	4135.9	52'	.03	24-28
1412	56	4139.9	none	Blank	
1405	60		none	.14	36-40
1403	54		none	.20	34-48
1418	54	4138.2	none	.06	32-46
1417	54	4139.1	none	.18	36-42
1416	59	4139.7	none	0.19	40-42
1402	58		none	0.08	37-39
1401	58		57'	0.16	32-40
1421	54	4132.8	54'	0.08	28-40
1419	60	4134.6	none	0.11	35-42
1424	54	4129.7	52'	0.03	40-46
1423	56	4130.4	54	0.12	28-46
1422	60	4129.2	56	Blank	
1425	52	4125.9	52	0.04	33-42
1426	54	4126.8	50	Tr.	36-42
1400	54	4127.3	53'	0.20	29-31
1271	60	4129.1	none	Blank	
1270	62		60	Blank	
1269	56	4125.4	54	0.18	30-36
1278	62	4126.6	62	0.10	32-50
I4	52	4122.0	50	0.15	28-40
1268	52	4123.2	50	0.05	36-46
1407	64		none	Tr.	28-30
Total	1363				

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

RECEIVED
SEP - 2 1955

224 New Customhouse
Denver 2, Colorado

August 26, 1955

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: DMEA Docket 2768, (Uranium) Contract Idm-E520, Mining Research Corporation, Fall River County, South Dakota.

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

W. M. Traver

W. M. Traver

Enclosures

jy

cc: MF-104 File E520
E. O. Binyon
Chron.

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

RECEIVED
SEP - 2 1955

224 New Customhouse
Denver 2, Colorado

August 25, 1955

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region III

Subject: DMEA Docket 2768, (Uranium) Contract Idm-E520, Mining Research Corporation, Fall River County, South Dakota - Operator's Supplemental Reclaim for January - February, 1955.

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

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

Reclaim is considered allowable by this office and is properly supported by the original of the Administrative Audit Difference Statement dated August 11, 1955.

Remarks
Date of Report- - - - - - - - - - - - - - August 24, 1955
Date Received in Field Office
Date Received in Region Office- - - - - August 24, 1955

W. M. TRAVER.

W. M. Traver

Enclosures

RB:jy

cc: MF-104 File E520
Sec. Op. Comm. (2)
E. O. Binyon
Chron.

MINING RESEARCH CORPORATION

RECEIVED

SEP - 8 1955

August 29, 1955

Mr. U. M. Trover, Executive Officer
DMEA Field Team, Region III
Room 314 New Customhouse
Denver 2, Colorado

Dear Mr. Trover:

Enclosed are the original and four copies each of DMEA Forms MF-104 and MF-104A which constitute a reclaim for the 50 feet of drilling at $0.37 per foot which was disallowed from the amount claimed on our Monthly Progress Report for the period January and February 1955. An error was made in the typing of our Narrative Report. Drill hole listed as No. 67, which was disallowed, should have been Hole No. 60. Also enclosed is the original of the Administrative Audit Difference Statement in support of this reclaim.

Very truly yours,

Clifton W. Livingston

President

UNITED STATES DEPARTMENT OF THE INTERIOR

224 New Customhouse
Denver 2, Colorado

August 18, 1955

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA-2768 (Uranium), Contract Idm-E520, Mining Research Corporation, Fall River County, South Dakota - Operator's Monthly Progress Report for the period January and February, 1955.

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

W. M. TRAVER,

W. M. Traver

enclosures

jy

cc: MF 104 File-Idm-E520
Binyon
Chron.

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

Administrative Audit Difference Statement

Date: [illegible]
Payee's
Reference: [illegible]

[illegible]
[illegible]
[illegible]

[illegible]

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

Amount Claimed	$ [illegible]
Difference	$ [illegible]
Amount Approved	$ [illegible]

The reason for the difference was due to:

[illegible]

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

Very sincerely yours,

N.E.Stokes
Audit Section

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

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

224 New Customhouse
Denver 2, Colorado

August 9, 1955

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA-2768 (Uranium), Contract Idm-1520, Mining Research Corporation, Fall River County, South Dakota - Operator's Monthly Progress Report for the period January and February, 1955

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

Work has been completed as authorized by the contract. No documentation is required for work performed under contracts prepared on form MF-200A, therefore we recommend that payment be made for 90 percent for Stage I work and ~~95~~ 75 percent for Stage II work of the amount reported by the Operator on form MF-104, contingent on your verification of arithmetical accuracy within the report.

An amount of $46.72 for 56 feet of drilling at $0.87 per foot in Drill Hole No. 637 is to be disallowed as drilling in this hole was claimed and paid for in the November, 1954 voucher.

Remarks:

Date of Report. . . . . February 15, 1955
Date Received in Field Office . . . . . March 7, 1955
Date Received in Region Office. . . . . March 16, 1955

Processing delayed in Regional Office pending resumption of operations. Work began again on August 1, 1955 under terms of Amendment No. 4.

cc Subject
Sec. Op. Comm. (2)
Binyon
Townsend w/copy Engr. Rept.
Chron

W. M. Traver

Enclosures

RDB:sr

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

March 14, 1955

Memorandum

To: W. T. Traver, Executive Officer, DMEA Field Team, Ref. IIT

From: S. . Minyon, Rapid City, S. Dak.

Subject: Progress Report, January and February 1955, Docket DMEA 2768, Uranium, Contract Idm E-520, Mining Research Corp., Fall River County, S. Dak.

Enclosed in quintuplicate are the following:

1. Operator's Forms MF-101 and MF-101A
2. Operator's Narrative Report
3. Map

Also enclosed are the original and 8 copies of the engineer's narrative report.

The operator's reports were received March 7, 1955 and were held up pending a field check of progress.

All work, except as mentioned in the narrative, was in conformance with the terms of the contract and it is recommended that the government's share, amounting to $742.03, be paid.

. W. Minyon

cc: Executive Officer (8)
files

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

March 14, 1955

Memorandum

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

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

Subject: Progress Reports for January and February, 1955, Docket DMEA 2768 (Uranium), Contract Idm-3520, Mining Research Corp., Fall River County, S. Dak.

The property was visited weekly during the period covered by the subject reports, and also three visits have been made since the week of February 14 - 18. Two of the visits were to check whether the drilling was being done by a drilling contractor, as had been mentioned by the operator, or whether the work had been recessed. The last visit on March 10 was made to check the work as reported for January and February.

The operator is now out of town and has not been contacted since February 17. On that date he was again advised to submit a request for a recess if he did not plan to have the drilling done by a contractor. To date the request for a recess has not been received. At present the property is inactive.

The drilling, as reported and shown on the map for Stage I, McKnight Area I, includes three holes, Nos. 637, 678 and 680, and a total footage of 132 feet. However, if the hole number 637 is correct, then this is in error as Hole No. 637 was reported drilled to a depth of 44 feet and was included for payment in the November voucher.

A field check shows that Hole No. 637 has not been redrilled and only Holes No. 678 and 680 could be found. No doubt a third hole was drilled and apparently has been misnumbered. However, in order to keep the record straight, it is suggested that payment for Hole No. 637 be withheld until the matter can be cleared up. The operator can submit his claim for the 56 feet in any future report.

In the Lion Claim group area the drilling was completed as reported, 24 holes, with a total footage of 1,046 feet being drilled.

In holes Nos. 1263, 1254, 1261, and 1265, and in 1261½ and 1264½ (not included in the footage claimed), a mineralized zone 20 to 24 feet thick was encountered. The zone is at the same horizon in each hole and in hole No. 1254 the mineralization was ore grade - .13 percent - over a 22-foot thickness. The holes No. 1261½ and 1264½, as stated, are not included for payment since their spacing is 15 feet and they were drilled for blocking the deposit as well as to determine the location of the break, as mentioned by the operator.

Of the 12 holes drilled under Stage II, Items I and II of the amended contract, it is noted that eight are 18 feet in depth and one is only 14 feet deep. This depth is sufficient to explore the upper horizon; however, previous drilling indicates slight mineralization from 40 to 50 feet and so far as I know, there is no geologic data that indicates that the holes should not extend to a depth of about 50 feet, as originally planned. The operator probably intends to deepen the holes or may consider that the holes are deep enough; but until it can be taken up with him, it is suggested that the footage claimed for these holes be allowed.

The following shows the adjusted footages and amounts:

Stage I - 132 ft. less 56 ft. (Hole 637) - 76' @ 87¢ -		$66.12
Government's share @ 90%		59.51
Stage II - Items 1, 2, 3 & 4 - 1,046 ft. @ 87¢		$910.02
Government's share @ 75%		682.52
Total Amount	$976.14	
Total Government's Share	742.03	

It is recommended that the operator be paid the government's share of the amount claimed, less $48.72 disallowed for hole No. 637.

The contract expires April 14, 1955.

E. O. Simyon

cc: Executive Officer (8)
files

4215 Balsam St.
Wheatridge, Colorado

February 25, 1955

Executive Officer
DMEA Field Team, Region IV
Defense Minerals Exploration Administration
224 New Customhouse
Denver 2, Colorado

Via: Rapid City Field Office
School of Mines Campus
Rapid City, South Dakota

Attention: Mr. E. O. Binvon

Gentlemen:

Re: Progress Report, January-February 1955
DMEA Contract No. 2768-Idm. E-520

Enclosed you will find the original and four copies of our monthly progress report and unit cost summary statement for January-February, 1955, under DMEA Contract No. 2768-Idm. E-520. The enclosed report includes the following: (1) Operator's Monthly Report and Voucher (MF-104), (2) Operator's Unit Cost and Progress Report (MF-104A), and (3) Narrative Report.

Sincerely,

Clifton W. Livingston

C. W. Livingston
President

/fb

Enclosures

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

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of Jan.-Feb. 195 5 Docket No. DMEA 2768 Contract No. Idn. 8520
Operator's Name Mining Research Corporation Minerals Uranium
Address 4215 Balsam Street, Wheatridge, Colorado
Contract Amount, $ 52,873.00 Government Participation: 75 % Amount, $ 42,307.20

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
Stage I - Midnight Area						
(1) Independent Short Form Contracts:						
Core Drilling	None	2,166.45	2,166.45			
Wagon Drilling						
132 @ .87	114.84	8,780.91*	8,895.75			
Stage II - Lion and Sheep Canyon Areas						
(2) Labor and Supervision:						
Core Drilling	None	451.47	451.47			
Wagon Drill						
1046 @ .87	910.02	7,434.15	8,344.17			
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
*Corrected for December adjustment						
(8) Contingencies (specify):						
TOTALS	1,024.86	18,832.98	19,857.84	976.14	18,832.98	19,857.84

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

Date Feb. 15, 1955 *Payee Mining Research Corporation

Per Clifton W. Livingston Title President

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

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

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

$ 742.03

Signature [illegible]
(Authorized Certifying Officer)

Date 8/11/55 Vou. No. DMA-55-14

(See other side)

RECEIVED AUG 2 [illegible]

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE: For payment of $742.05

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. 24-WC620 in accordance with the terms of the contract.

Signature W Binyon Title Mining Engineer Date March 14, 1955

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE: Berk.

Signature W. M. Clower Title Executive Officer Date AUG 9 1955

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 83-38476

Form MF-104A
(April 1952)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of Jan.-Feb. 195 5 Docket No. DMEA 2768 Contract No. Idm. E520

Operator's Name Mining Research Corporation Minerals Uranium

Address 4215 Balsam Street, Wheatridge, 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
Drifting								
Crosscutting								
Raising								
Shafts								
Winzes								
Authorized by Contract								
Drilling: Core Stage I	ft.	None	None	2,166.45	715	3.03	1,595	3.03
~~Churn~~ Stage II	ft.	None	None	451.47	149	3.03	3,000	3.03
~~Auger~~ Wagon Drilling								
~~Dripping~~ Stage I	ft.	114.84	132	8,895.75	10,225	.87	14,770	.87
Stage II	ft.	910.02	1046	8,344.17	9,591	.87	30,000	.87
Trenching								
Test Pits								
Roads and Trails								
Total Distributed Costs				19,857.84				Total Costs Authorized by Contract
								$52,873.00
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Total Costs		1024.86		19,857.84				

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 Feb. 15, 1955 Operator Mining Research Corporation

Per Clifton W. Livingston Title President

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)

Stage I 90% 59.51 48.72 disallowed
Stage II 75% 682.52

INSTRUCTIONS

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

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

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

GPO 83-38475

MINING RESEARCH CORPORATION

Narrative Report

January - February 1955

The accompanying summary table classifies the footage for January and February in accordance with item numbers in Amendment No. 1 of the contract.

The accompanying progress map shows all holes drilled under the contract to date. Holes drilled on McKnight No. 5 and Deadhorse No. 4 are shown on the map but not included in the footage summary or cost estimate. These holes were drilled in accordance with provisions of Stage I of the contract and were assumed to be included as a part of Area III, Stage I. We were notified on February 8, 1954 that holes in this area were to be disallowed as not being with areas covered by the contract. In the amended contract the lines joining Areas I and III are not the same as in the original contract. Inasmuch as the drill holes on the area in question explored the extension of the McKnight No. 2 ore body and penetrated ore, and the ore zone has been removed by erosion in the gulch which is within the limits of Area III, Stage I, amended we submit that we were acting in the best interests of the contract, although were not previously aware that the legal limits passed through the gulch where we could not drill and where the ore had been removed by erosion.

Sheep Canyon Area

No drilling was done in the Sheep Canyon Area during the month.

Lion Area

Drilling to locate the exact positions of the stratigraphic or structural breaks as provided for in Amendment No. 3 has resulted in the most encouraging discovery to date. The position of one such stratigraphic or structural break was pin-pointed as lying between holes 1261½ and 1254. Both of these holes contain commercial grade ore. On both sides and above and below the commercial grade ore the drills have penetrated low grade of unusual thickness. It would appear that the mineralized zone adjacent to the break ranges from 18 ft. to 26 ft. thick and is in excess of 60 ft. wide. It is impossible as yet to determine whether the break is a structural or a stratigraphic feature. Hole #1263 drilled as out offset hole, 104 ft. to the southwest penetrated 6 ft. of commercial grade ore enclosed within low grade mineralization of the same thickness as described above. It is certain therefore that mineralization persists for at least 104 ft. strikewise along the break regardless of whether the break be stratigraphic or structural.

MINING RESEARCH CORPORATION

Drill Summary

January - February, 1955

STAGE I

Item	Ft. This Month	Previous Total to Date	Total to Date	Feet Remaining
Core Drilling	none	715	715	880
Wagon Drilling	132	10,093	10,225	4,545
TOTAL STAGE I	132'			

STAGE II

Item	Ft. This Month	Previous Total to Date	Total to Date	Feet Remaining
Core Drilling				
Lion Area - Item 5	none	99	99	901
Sheep Canyon - Item 6	none	50	50	1950
Wagon Drilling				
Lion Area - Items 1, 2.	336	2991	3327	1673
Lion Area - Items 3, 4.	710	2966	3636	1364
TOTAL STAGE II	1006'			

MINING RESEARCH CORPORATION

D.M.E.A. Drill Holes

January - February 1955

STAGE I (McKnight Area)

Hole No.	Hole Depth	Collar Elevation	Depth Shale	Remarks on Mineralization
637	56	No Data	No Shale	Tr. 44' - 48'
678	58	No Data	No Shale	Blank
680	18	4031.5	No Shale	Blank
Total 3	132			

MINING RESEARCH CORPORATION

D.M.E.A. Drill Holes

January - February 1955

STAGE II (Lion Area)

Items 1 and 2 (Line and Grid)

Hole No.	Hole Depth	Collar Elevation	Depth Shale	Remarks on Mineralization
1216	18	4163.1	No Shale	Blank
1217	18	4162.6	No Shale	Blank
1218	18	4161.2	No Shale	Blank
1014	18	4158.4	No Shale	Blank
1015	18	4160.1	No Shale	Blank
1016	18	4162.1	No Shale	Blank
1017	18	4164.4	No Shale	Blank
1018	14	4166.1	No Shale	Blank
1256	18	4129.2	No Shale	Tr. 6' - 10'
1258	38	4138.4	No Shale	Tr. 10' - 14'
1229	72	4135.4	No Shale	Tr. 24' - 30'
1231	68	4135.8	No Shale	4' @ .05 depth 28' - 32'
TOTAL	336'			

MINING RESEARCH CORPORATION

D.M.E.A. Drill Holes

January - February 1955

STAGE II (Lion Area)

Items 3 and 4 (Offset Holes and Structural Breaks)

Hole No.	Hole Depth	Collar Elevation	Depth Shale	Remarks on Mineralization
1225	66	4136.7	No Shale	Tr. 26' - 30'
1228	48	4136.1		
1230	72	4134.9	71'	4' @ .06 depth 22' - 28'
1180	72	4134.5	72'	Blank
1263	52	No Survey	52'	Min. 22' thick 20' - 42' Average Grade 0.09
1252	36	4102.8	34'	Blank
1260	70	4138.7	69'	Tr. 28' - 32'
1259	72	No Survey	No Shale	Blank
1255	58	4128.2	56'	4' @ .03 36' - 40'
1254	58'	4117.5	No Shale	Min. 22' thick 28' - 50' Average Grade 0.13
1261	52'	4117.8	50'	Min. 24' thick 22' - 46' Average Grade 0.06
1265	54'	4117.9	No Shale	Min. 18' thick 26' - 44' Average Grade 0.04
TOTAL	710			
* 1261½	50	4117.6	49'	Min. 26' thick 22' - 48 Average Grade 0.07
* 1264½	62	4117.6	No Shale	Min. 26' thick 22' - 48' Average Grade 0.05

* No D.M.E.A. footage claimed, Hole Spacing 15'
Note Hole 1261½ is between holes 1261 and 1254.
Hole 1264½ is between holes 1254 and 1265.

224 New Customhouse
Denver 2, Colorado

February 11, 1955

Memorandum

To: Secretary to the Operating Committee

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA-2768 (Uranium), Contract Idm-E520, Mining Research Corporation, Fall River County, South Dakota

Enclosed are two copies of the Operator's Monthly Progress Report, Form MF-104 and MF-104A, Operator's Narrative Report, Inspecting Engineer's Narrative Report, and other supporting data pertaining to work under the subject contract for the month of December, 1954.

W. M. TRAVER

Enclosures

W. M. Traver

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 14 1955

Administrative Audit Difference Statement

Date: February 8, 1955
Payee's
Reference: December 1954

Mining Research Corp.
4215 Balsam St.
Wheatridge, Colo.

Gentlemen:

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

Amount Claimed	$ 1,867.89
Difference	$ 468.06
Amount Approved	$ 1,399.83

The reason for the difference was due to:

538 feet of drilling in holes No. 656,657,658,659,689,690,691,692 and 693 under Stage I disallowed inasmuch as this drilling was not within areas covered by the contract.

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

Very sincerely yours,

N.E.Stokes
Audit Section

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

224 New Customhouse
Denver 2, Colorado

February 4, 1955

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region III

Subject: DMEA Docket 2768 (Uranium), Contract Idm-E520, Mining Research Corporation, Fall River County, South Dakota - Operator's Monthly Progress Report for the period December, 1954

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

Work has been completed as authorized by the contract. No documentation is required for work performed under contracts prepared on Form MF-200A, therefore we recommend that payment be made for 90 percent for Stage I work and 75 percent for Stage II work, of the amount reported by the Operator on Form MF-104, contingent on your verification of arithmetical accuracy within the report.

An amount of $468.06 which represents 538 feet of drilling at $0.87 per foot under Stage I is to be disallowed. This is the amount claimed for drilling holes No. 656, 657, 658, 659, 689, 690, 691, 692 and 693 which are located outside both Areas I and II.

Remarks

Date of Report.....January 12, 1955
Date Received in Field Office.....January 19, 1955
Date Received in Region Office.....February 4, 1955

W. M. TRAVER

Enclosures

W. M. Traver

RDB:pw

cc: Subject
Chron
Binyon
Sec.Op.Comm. (2)

REC'D 4 1955

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

February 2, 1955

Memorandum

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

From: E. [illegible] Winyon, Rapid City, South Dakota

Subject: Progress Reports for December 1954, Docket DMEA 2769 (Uranium), Contract Idm-E520, Mining Research Corp., Fall River County, S. Dak.

One inspection trip was made to the drill areas on January 13th, and as no progress report had been submitted, another trip was made to look over company maps and check locations of the holes drilled during December. The drilling reported for the period has been completed in conformance with the terms of the contract.

In the McKnight Area I, 23 holes with a total footage of 1,318 feet were drilled. Twelve of the holes showed no mineralization or only a trace, two had not been probed, and six were reported with no assays.

In hole 658, one of three mineralized holes with assays, mineralization was found to extend from 10 to 60 feet below the collar. However, only about 4 feet, from depth 36 to 40, had a grade approaching ore, the average being .10 percent U_3O_8. In hole 659, 100 feet southwest, two feet at about the same horizon contained .09 percent U_3O_8; however, the intervening hole, No. 689, showed only a trace.

The operator has inadvertently included with the list of holes for the McKnight drilling (shown on the map on the McKnight No. 5 claim) nine holes which are outside both Areas I and III, as outlined on the geologic map submitted with the interim report on Amendment No. 1.

The nine holes are Nos. 656, 657, 658, 659, 689, 690, 691, 692 and 693, and the total footage is 538 feet or, at the contract price of $0.87 per foot, a total of $468.06. With the government participation of 90 percent for Stage I drilling, which would include these holes, the government's share amounts to $421.25. It is recommended that $421.25 be withheld from the government's share of the amount claimed on the voucher (Form MF-104).

As the operator has not been in town for some time and is not expected to return for about 3 months, there was no opportunity to learn why the holes were drilled outside the drilling area. However, as one of the major objectives has been to attempt to establish trends of mineralization, the holes were no doubt drilled in order to pick up what is believed to be a more north-south trend established (?) by the holes drilled on the southwest side of the grid during November. In short, there may be a good reason for these holes but they are outside the drilling areas.

On the Lion Claim group grid 19 holes with a total footage of 829 feet were drilled. Of these, four showed only slight mineralization. In one hole, No. 1233, two feet with a grade of .06 percent U_3O_8 was found at depth 26 to 28 feet and this was the best grade showing in any of the 19 holes drilled.

No drilling was done during December in the Gull-Sheep Canyon Areas I, II, or III.

The following shows the amount claimed, and the amount recommended to be withheld, for the footage drilled outside the drilling areas, as outlined under the contract and Amendment No. 1.

Claimed

Stage I - 1318 feet @ $.87 per foot Government's share @ 90%	$ 1,146.66	$1,031.99
Stage II - 829 feet @ $.87 per foot Government's share @ 75%	721.23	540.92
Total	$ 1,867.89	$ 1,572.91

Recommended for payment

Stage I - 780 feet @ $.87 per foot Government's share @ 90%	$ 678.60	610.74
Stage II - 829 feet @ $.87 per foot Government's share @ 75%	721.23	540.92
Total	$ 1,399.83	$1,151.66

It is recommended that $1,151.66 be paid the operator instead of the $1,572.91, which is the government's share of the monthly total shown on the Operator's Progress Report and Voucher for December 1954.

Expiration date of the contract is April 11, 1955.

E. J. Simyon

cc: Traver (8)
files

OMSA
FEB 4 1955

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

February 2, 1955

Memorandum

To: W. [illegible]. Traver, Executive Officer, DMEA Field Team, Reg. III

From: E. [illegible]. Binyon, Rapid City, S. Dak.

Subject: December 1954 Progress Report, Docket DMEA 2768 (Uranium), Contract Idm-E520, Mining Research Corporation, Fall River County, S. Dak.

Enclosed are the original and four copies of each of the following:

1. Bureau of Mines Engineer's Report
2. Operator's Narrative Report with hole logs and maps
3. MF-104 and MF-104A

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

The operator's reports were received here January 19 but have been held here pending a check of the holes.

Except as noted in the engineer's report, the work was done in conformance with the terms of the contract, and it is recommended that the government's share, as given in the engineer's report, ($1,151.66) be paid.

E. [illegible]. Binyon

cc: Traver (8)
files

DMEA
FEB 4 1955

P. O. Box 356
Edgemont, South Dakota

January 13, 1955

Executive Officer
DMEA Field Team, Region IV
Defense Minerals Exploration Administration
224 New Customhouse
Denver 2, Colorado

Via: Rapid City Field Office
School of Mines Campus
Rapid City, South Dakota

Attention: Mr. E. O. Binyon

Gentlemen:

Re: Progress Report, December, 1954
DMEA Contract No. 2768-Idm. E-520

Enclosed you will find the original and four copies of our monthly progress report and unit cost summary statement for December, 1954, under DMEA Contract No. 2768-Idm. E-520. The enclosed report includes the following: (1) Operator's Monthly Report and Voucher (MF-104), (2) Operator's Unit Cost and Progress Report (MF-104A), and (3) Narrative Report.

Will you please send us an additional supply of forms MF-104 and MF-104A.

Sincerely,

Clyton W. Livingston

C. W. Livingston
President

/ar

Enclosures

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

Budget Bureau No. 42-R1036.5

Defense Minerals Administration
RECEIVED
FEB 14 1955

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

Month of December, 1954 Docket No. DMEA 2760 Contract No. Ida. E-520
Operator's Name Mining Research Corporation Minerals Uranium
Address Box 356, Edgemont, South Dakota
Contract Amount, $ 52,873.00 Government Participation: 80 75% Amount, $ 42,307.20

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: Stage I - McKnight Area						
Drilling - Core	None	$ 2,166.45	$2,166.45			
[redacted] Drilling - Wagon						
[redacted] 1318 87/11	6.66	8,102.31	9,248.97			
Drifting						
Stage II - Lion & Sheep Canyon Areas						
(2) [redacted]						
[redacted] Drilling-Core	None	451.47	451.47			
[redacted] Drilling - Wagon & Rotary						
[redacted] 29/87	721.23	6,712.92	7,434.15			
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	$1867.89	$17,433.15	$19,301.04			

I certify that the above bill is correct and just and that payment therefor has not been received.
Date January 12, 1955 Mining Research Corporation
Per Clifton W. Livingston Title President

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

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

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

$ 1151.66

Signature Randell R. Cooper
(Authorized Certifying Officer)

Date 2/8/55 Vou. No. [illegible]-61

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE: For payment of $1,151.66

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 D-620 in accordance with the terms of the contract.

Signature E. O. Benson Title Mining Engineer Date February 2, 1955.

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature W. M. Clark Title Acting Executive Officer Date FEB 4 1955

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

Defense Minerals Administration
RECEIVED
FEB 14 1955

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of December 1954 Docket No. DMEA 2768 Contract No. Idm. E 520
Operator's Name Mining Research Corporation Minerals Uranium
Address Box 356, Edgemont, South Dakota

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts								
Winzes Authorized by Contract								
Drilling: Core Stage I	ft.	None	None	$ 2,166.45	715	$3.03	1,595	$3.03
Stage II	ft.	None	None	451.47	149		3,000	
Wagon & Rotary								
Stage I	ft.	$1,146.66	1318	9,248.97	10631	.87	14770	.87
Stage II	ft.	721.23	829	7,434.15	8545	.87	30000	.87
Trenching								
Test Pits								
Roads and Trails								
Total Distributed Costs				$19,301.04				Total Costs Authorized by Contract
Operating Equipment Purchased								$52,873.00
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Total Costs		$1,867.89		$19,301.04				

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 January 12, 1954 Operator Mining Research Corporation

Per Chas. W. Lounsbury Title President

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)

INSTRUCTIONS

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

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

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

GPO 83-38475

MINING RESEARCH CORPORATION

Narrative Report

December, 1954

Following is a summary table which classifies the footage for December in accordance with item numbers in Amendment No. 1 of the contract. Holes drilled in the McKnight area under Stage I and in the Lion Area under Stage II are summarized also in accompanying tables.

The accompanying progress maps show all of the holes drilled under the contract to date. The letters G represent grid holes on lines spaced 300 feet apart. Inasmuch as separate starting points were previously used to establish lines in the field for individual ore bodies, some confusion results in defining grid and offset holes. On the Lion No. 1 claim the position of the lines was determined by the topography and by the Lion open cut limits. The holes were shifted accordingly and have been classified as offset holes.

Lion Area

Holes were drilled on Lion No. 1 and Lion No. 7 claims. Hole 1233 contained two feet of mineralization @ .06 percent U_3O_8; other holes were blank.

McKnight Area

Holes were drilled on McKnight 2, McKnight 3, and McKnight 5 claims. Holes 658 and 659 were mineralized.

These holes may represent an extension of ore body exposed on McKnight No. 1 and McKnight No. 2 claims.

Sheep Canyon Area

No drilling was done in the Sheep Canyon area during the month. Difficulty was experienced in November in drilling on coordinate lines on Sheep Canyon No. 2 claim. A number of holes on coordinate lines were abandoned before reaching the ore horizon because of surface gravel and caving ground. It was necessary to move several times before completing the holes shown.

MINING RESEARCH CORPORATION

D.M.E.A. DRILL HOLES

McKnight Area - Stage I
December, 1954

Hole No.	Hole Depth	Collar Elev.	Depth Shale	Remarks on Mineralization
667	70'	4032.1	70'	Good probe reading 67' No assay
668	74'	4033.0	68'	Blank
670	56'	4047.0	52'	Tr. 44'-48'
669	70'	4031.9	67'	Blank
660	30'	4028.9	No Sh.	Not probed
660B	72'	4029.0	72'	Blank
661	66'	4026.1	66'	Blank
662	56'	4020.7	56'	Good probe reading 54' No assay
656	50'	4002.3	No Sh.	Tr. 38'-40'
657	52'	4003.8	50'	Blank
658	60'	4008.2	58'	Mineralized 10'-60'; 36'-38' - .12 38'-40' - .08 44'-46' - .03 50'-52' - .03
659	62'	4009.3	60'	42'-44' - .09
684	44'	4014.1	42'	Good probe reading 40' No assay
685	52'	4018.7	51'	Good probe reading 40'-50' No assay
686	42'	4016.9	43'	Good probe reading 38'-40' No assay
687	48'	4018.9	45'	Good probe reading 44'-46' No assay
683	40'	4011.0	--	Not probed
679	60'	4036.3	No Sh.	56'-58' - .02
692	62'	4010.6	58'	Blank
693	70'	4011.0	56'	Blank
690	60'	4010.5	56'	Tr. 56'
691	62'	4011.0	58'	Blank
689	60'	4008.1		Tr. 54'-58'
TOTAL	1318'			

MINING RESEARCH CORPORATION

D.M.E.A. DRILL HOLES

Lion Area
Items 1, 2, 3, 4, 5
December, 1954

Stage II

Hole No.	Hole Depth Line & Grid	Hole Depth Offset	Depth Shale	Collar Elev.	Remarks on Mineralization
1220	--	29'	No Sh.	4131.3	Blank
1221	--	38'	2'	4132.0	Blank
1201	--	38'		4131.7	Not probed
1222	--	38'	4'	4131.5	Tr. 14'-18' No assay
1205	32'	--	2'	4126.6	Blank
1206	--	38'	2'	4123.2	Blank
1234	--	72'	69'	4119.0	Blank
1233	--	72'	66'	4124.8	26'-28' - .06
1208	--	32'	No Sh.	4115.1	Blank
1232	--	74'	70'	4127.4	18'-20' - .02 20'-22' - .03
1178	--	72'	65'	4129.8	Blank
1207	--	38'	No Sh.	4119.6	2'-4' - .03 Tr. 4'-8'
1211	--	26'	No Sh.	4118.3	Blank
1214	--	38'	No Sh.	4130.8	Blank
1213	--	38'	No Sh.	4131.5	Blank
1212	--	32'	No Sh.	4120.5	Blank
1215	--	38'	No Sh.	4110.4	Blank
1257	48'	--	No Sh.	4134.1	8'-10' - .01
1202	--	36'	--	4132.1	Not probed
TOTAL	80'	749'			

TOTAL GRID PLUS OFFSET = 829 ft.

MINING RESEARCH CORPORATION

Drill Summary

December, 1954

Stage I

Item	Feet This Month	Previous Total To Date	Total To Date	Ft. Remaining
Core Drilling	None	715	715	880
Wagon Drilling	1,318	9,313	10,631	4,139
Total Stage I	1,318			

Stage II

Item	Feet This Month	Previous Total To Date	Total To Date	Ft. Remaining
Core Drilling				
Lion Area - Item 5	None	99	99	901
Sheep Canyon Area-Item 6	None	50	50	1950
Wagon Drilling				
Lion Area - Items 1 & 2	80	2,911	2,991	2009
Lion Area _ Items 3 & 4	749	2,217	2,966	2034
Total Stage II	829			

224 New Customhouse
Denver 2, Colorado

February 2, 1955

Memorandum

To: Secretary to the Operating Committee

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket No. DMEA-2768 (Uranium), Contract Idm-E520, Mining Research Corp., Fall River County, South Dakota

Enclosed are two copies of the Operator's Monthly Progress Report, Form MF-104 and MF-104A, Operator's Narrative Report, Inspecting Engineer's Narrative Report, and other supporting data pertaining to work under the subject contract for the month of November, 1954.

W. M. TRAVER

W. M. Traver

Enclosures

pw

224 New Customhouse
Denver 2, Colorado

January 24, 1955

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region III

Subject: DMEA Docket 2768, (Uranium), Contract I6m-8520, Mining Research Corp., Fall River County, South Dakota, Operator's Monthly Progress Report for the period November, 1954

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

Work has been completed as authorized by the contract. No documentation is required for work performed under contracts prepared on Form MF-200A, therefore we recommend that payment be made for 90 per cent for Stage I work and 75 per cent for Stage II work of the amount reported by the Operator on Form MF-104, contingent on your verification of arithmetical accuracy within the report.

Remarks:

Date of report..... January 4, 1955
Date received in field office.....January 10, 1955
Date received in regional office.....January 24, 1955

W. M. TRAVER

W. M. Traver

RDB:pw

Subject
Chron
Sec.Op.Comm. (2)
Binyon

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

January 20, 1955

Memorandum

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

From: E. . Binyon, Rapid City Office

Subject: Progress Report, November 1954, Docket DMEA 276P, Contract Idm-E520, Uranium, Mining Research Corporation, Fall River County, S. Dak.

Enclosed in quintuplicate are the following:

1. Operator's Forms MF-104 and MF-104A
2. Operator's Narrative Report
3. Maps

Also enclosed are the original and eight copies of the engineer's narrative report.

The operator's reports were received here January 10 but were held here pending a field check of the progress and a check of the MF-104.

You will note that included with one of the sets of the operator's report the two letters are "copies." The operator had loaned the logs etc. to this office prior to submitting all copies of the reports, and failed to include the letters when the entire report was submitted.

As all work is in conformance with the terms of the contract and amendments, it is recommended that the government's share of the cost be paid.

E. . Binyon

cc: Traver (3)
files

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

January 20, 1955

Memorandum

To: W. M. Traver, Executive Officer, DMEA Region III

From: E. O. Binyon, Rapid City

Subject: Progress Reports, November 1954, Docket DMEA 2768, Contract Idm-E520, Uranium, Mining Research Corp., Fall River County, S. Dak.

The property was visited twice during the month and again on December 3rd and the drilling had been completed, as reported by the operator.

The operator was delayed in submitting the reports owing to the necessity of having to amend the contract. The drilling completed in September, October and November, through a misunderstanding, had not been done in conformance with some of the terms of the contract. This breech of the terms which, as stated, was through a misinterpretation, was not intentional on the part of the operator, and I approved the work with the understanding that it was being done in compliance with all contract terms.

Drilling was carried on in the Gull-Sheep Canyon Areas 1 and 2, McKnight-Ram Area 1, and in the Lion Claim Group area. The drilling was distributed as follows:

Gull-Sheep Canyon, Amendment No. 1

Area	Number of holes	Footage
I	3	202
II	1	150
Total	4	352

Ram-McKnight, Stage 1

I	47	2,287

Lion Claim Group

Grid	5	274
Offset	9	494
Total	14	768

In all areas some mineralization was encountered in some of the holes. However, the grade was less than .1 percent in all instances except in two holes in the Lion Claim area and one in the Gull-Sheep Canyon Area I.

For the Ram-McKnight Area I, of the 47 holes drilled only 9 holes showed no mineralization; in the 38 holes remaining, the mineralization ranged from a trace to a maximum of .09 percent, with an overall average grade of .033 percent and average thickness of 3.9 feet. The averages mean little inasmuch as the mineralization apparently occurs in two, or possibly three, horizons, and from data available at present, no breakdown into horizons and grade of the different horizons is possible.

In the Lion Claim Group area, 7 of the 14 holes drilled encountered mineralization; 5 of the remaining 7 showed no mineralized zones and 2 had not been probed. The mineralization was apparently confined to an horizon between 24 and 42 feet with an average thickness of 8.5 feet and a grade of .044 percent. In one hole 2 feet of .25 percent U_3O_8, and in another 6 feet of .08 percent, with 4 feet of this averaging .095 percent, was found.

Drilling in the Gull-Sheep Canyon area was limited to only 4 holes--3 in Area I and 1 in Area II. The hole in Area I cut 10 feet (from 100 to 110 feet) of submarginal ore of an average grade of .098 percent, with 7.5 feet averaging .11 percent U_3O_8. At the depth and location, this is not ore grade; however, the showing is promising.

Expiration date of the contract is April 14, 1955.

It is recommended that the operator be paid the government's share of the cost:

Stage I @ 90% participation of $1,989.69 -----	$1,790.72
Gull-Sheep Canyon and Lion Claim areas @ 75% participation of $974.40 ----------	730.80
Total payment	$2,521.52

E. . Binyon

cc: Traver ( )
files

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.1
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 5 1953

Month of November 1954 Docket No. DMEA 2768 Contract No. Ida. D-520
Operator's Name Mining Research Corporation Minerals Uranium
Address Box 356, Edgemont, South Dakota

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts								
Winzes								
Authorized by Contract								
Drilling: Core Stage I	ft.	None	None	$2,166.45	715	3.03	1,525	3.03
Stage II	ft.	None	None	451.47	149		1,000	3.03
Wagon Drill Stage I	ft.	1,989.69	2,287	8,102.31	9,313	.87	14,770	.87
Stage II	ft.	974.40	1,120	6,712.92	7,716	.87	30,000	.87
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		$2,964.09		$17,433.15				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								$52,873.00
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		$2,964.09		$17,433.15				

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 Jan. 4, 1955 Operator Mining Research Corporation

Per Clifton W. Livingston Title President

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 83-38475

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 November, 1954 Docket No. DMEA 2768 Contract No. Ida. P-520
Operator's Name Mining Research Corporation Minerals Uranium
Address Box 356, Edgemont, South Dakota
Contract Amount, $ 52,873.00 Government Participation: 90 % Stage I, 75 % Stage II Amount, $ 42,307.20

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: Stage I - Moinight Area						
Drilling - Core	None	$2,166.45	$2,166.45			
Drilling - Wagon						
2287 @ 87¢	$1,989.69	6,112.62	8,102.31			
Drifting						
Stage II - Lion and Shake Canyon Areas						
(2) Drilling - Core	None	451.47	451.47			
Drilling - Wagon & Rotary						
1120 @ 87¢	974.40	5,738.52	6,712.92			
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	$2,964.09	$14,469.06	$17,433.15	2964.09	14,469.06	17,433.15

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

Date Jan. 4, 1955 *Payee Mining Research Corporation

Per Clifton W. Livingston Title President

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

→ NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

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

$ 2521.52

Signature Randall R. Cooper
(Authorized Certifying Officer)

Date 1-27-55 Vou. No. DMA-55-59

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

90% of $1,989.69 -- $1,790.72
75% of 974.40 -- 730.80

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 E520 in accordance with the terms of the contract. Total payment $2,521.52

Signature E. O'Bryon Title Mining Engineer Date January 20, 1955

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature W. M. Inaver Title Executive Officer Date JAN 24 1955

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

P. O. Box 356
Edgemont, South Dakota

January 4, 1955

Executive Officer
DMEA Field Team, Region IV
Defense Minerals Exploration Administration
224 New Customhouse
Denver 2, Colorado

Via: Rapid City Field Office
School of Mines Campus
Rapid City, South Dakota

Attention: Mr. E. O. Binyon

Gentlemen:

Re: Progress Report, November 1954
DMEA Contract No. 2768-Idm. E-520

Enclosed you will find the original and four copies of our monthly progress report and unit cost summary statement for November, 1954, under DMEA Contract No. 2768-Idm. E-520. The enclosed report includes the following: (1) Operator's Monthly Report and Voucher (MF-104), (2) Operator's Unit Cost and Progress Report (MF-104A), and (3) Narrative Report.

Pursuant to your instructions, Stage I and Stage II drilling have been reported separately for the month. Also, we have segregated the amounts previously reported into the Stage I and Stage II categories.

If future reports should be changed in any manner or if you would like to have any additional information, please let me know.

Sincerely,

Clifton W. Livingston

C. W. Livingston
President

/ar

Enclosures

D.M.E.A. NARRATIVE REPORT

November 1954

Lion Area

Fifteen holes totaling 768 feet of wagon drilling were drilled in the Lion 8 and Lion 13 claims as shown on the accompanying progress map. The rectangular area outlined by holes 1113 to 1118 appears to cross the strike of a low grade mineralized area and the holes 1191, 1199, 1310, and 1320 appear to be close to, but beyond the east flank of the same area. Additional drilling to the west of hole 1320 is contemplated for December.

McKnight Area

Two lines of holes approximately 600 feet apart were drilled to obtain additional information on the trends of two low grade ore bodies previously observed. Hole 628 and 631 appear to be on the extension of the ore area crossed by holes 606 - 608 and again by holes 609 - 611.

Holes 621 and 622 appear to be on the extension of separate ore area crossed by holes 635 - 638.

A total of 2287 feet of wagon drilling was completed on the McKnight No. 2 and McKnight No. 3 claims.

Sheep Canyon Area

Four holes totaling ~~202~~ 352 feet of wagon drilling were drilled as indicated on the accompanying progress map of the Sheep Canyon Area. Hole 50A penetrated 7½ feet of ore averaging 0.11 from 102½ to 110 feet below the surface.

MINING RESEARCH CORPORATION

D.M.E.A. DRILL HOLES

Lion Area

Hole No.	Depth Hole	Collar Elev.	Depth Sh.	Remarks on Mineralization
1191	54'		54'	No data
1192	44'	4121.0	no sh.	Blank
1199	48'	4133.4	48'	22'-24' at .04
1210	62'	4130.4	58'	Blank
1176	36'		36'	No data
1184	42'	4118.8	no sh.	Blank
1320	52'	4139.1	50'	Blank
1310	54'	4135.8	52'	Blank
1118	52'	4117.4	48'	Min. 24'-42' Ave. .06 4' at .03 6' at .04 2' at .06 2' at .25
1116	74'	4117.3	72'	Min. 28'-38' Ave. .03 2' at .06
1117	64'	41118.0	62'	Min. 28'-36' Ave. .02 2' at .04
1114	66'	4123.0	66'	Min. 28'-34' Ave. .03
1115	70'	4120.1	66'	Min. 26'-32' Ave. .08 2' at .09 2' at .10 2' at .06
1113	50'	4121.3	48'	Min. 24'-28' Ave. .03

TOTAL 768'

Total Grid - 274' - 5 Holes
" Offset - 494' - 9 Holes

D.M.E.A. DRILL HOLES

McKnight Area

Hole No.	Depth Hole	Collar Elev.	Depth Sh.	Remarks on Mineralization
600	68'	4043.0	48'	Min. 30'-64' 2' at .05 2' at .04 4' at .03
601	50'	4044.3	48'	Blank
602	50'	4045.0	46'	Min. 40'-44' .02 Ave.
603	48'	4045.5	?	Blank
604	50'	4046.0	49'	Min. 40'-42' .03
605	48'	4046.6	43'	Min. 18'-28' 38'-46' 2' at .07
606	49'	4047.1	46'	Min. 20'-48' 4' at .03
607	51'	4047.9	no sh.	Min. 20'-50' 2' at .05 2' at .06 2' at .04 2' at .03
608	60'	4048.0	59'	22' to 52' Ave. .03 4' at .04 2' at .05 12' at .03
609	52'	4042.7	49'	Min. 44'-52' Ave. .05
610	50'	4042.4	49'	Min. 20'-36' 44'-48' Ave. .09
611	46'	4041.3	45'	Min. 28'-34' 40'-44' Ave. .02 2' at .05 2' at .03
612	44'	4040.2	37'	Min. 32'-44' 2' at .03
613	42'	4039.8	42'	Min. 36'-40' Ave. .01
633	61'	4048.4	60'	Min. 26'-30' 48'-50' 2' at .04
635	51'	4040.9	51'	Min. 32'-38' 44'-48' 2' at .06
622	62'	4020.8	44'	Min. 22'-26' 2' at .07
621	30'	4031.6	40'	Min. 24'-28' 32'-38' 2' at .07 4' at .03
626	44'	4029.9	40'	Min. 40'-44' 2' at .03
634	52'	4047.9	46'	Tr. Min. 46'-48' 50'-52'
636	49'	4038.8	44'	Min. 42'-48' 2' at .03
637	44'	4035.9	40'	Min. 38'-44' 2' at .06 2' at .04
618	46'	4035.7	44'	Blank

D.M.E.A. DRILL HOLES

McKnight Area (Cont.)

Hole No.	Depth Hole	Collar Elev.	Depth Sh.	Remarks on Mineralization
638	41'	4031.9	41'	Min. 30'-40' Ave. .02
625	52'	4034.0	52'	Min. 38'-42' Ave. .02
619	44'	4032.8	44'	Min. 38'-42' 2' at .03 2' at .02
628	53'	4030.2	52'	Min. 36'-38' at .06 46'-50' at .02
632	54'	4026.4	54'	Blank
623	42'	4024.0	42'	Min. 26'-28' at .04 38'-42' Tr.
624	38'	4017.7	33'	Tr. Min. 34'-38' Tr. 26'-28'
631	54'	4028.0	52'	Min. 28'-40' Ave. .03 2' at .04 2' at .08 2' at .05
639	48'	4032.2	46'	Blank
642	57'	4033.8	58'	Min. 38'-42' Ave. .02 2' at .04
644	40'	4019.0	40'	Min. 38'-40' at .02
646	54'	4038.9	52'	Blank
641	58'	4038.5	56'	Blank
640	40'	4021.5	38'	Blank
651	40'	4017.4	37'	Tr. Min. 38'-40'
652	38'	4012.1	34'	Tr. Min. 34'-38'
654	52'	4015.1	49'	Min. 48'-50' at .02
645	48'	4015.8	38'	Min. 32'-34' at .03
653	44'	4011.0	no sh.	Tr. Min. 40'-44'
655	58'	4018.6	56'	Blank
648	42'	4017.4	42'	Min. 24'-26' at .03
647	43'	4021.3	42'	Blank
649	50'	4025.7	50'	Min. 46'-50' 2' at 50'
650	50'	4022.3	50'	Tr. Min. 48'-50'

TOTAL 2287'

TOTAL TO DATE 2457'

MINING RESEARCH CORPORATION

D.M.E.A. DRILL HOLES

Sheep Canyon Area

Hole No.	Depth Hole	Collar Elev.	Depth Sh.	Remarks on Mineralization
50A	150'	3823.4	140'	100'-102½' at .05 102½'-105' at .09 105'-107½' at .17 107½'-110' at .08
504½	88'			Trace 66' to 80'
504 B	68'			No data
504 A	46'			No data

TOTAL 352'

TOTAL TO DATE 2488'

MINING RESEARCH CORPORATION

Drill Summary

November

STAGE I

Item	Feet this Month	Previous Total	Total Ft. To Date	Feet Remaining
Core Drilling	none	715'	715'	880'
Wagon Drilling	2287'	7026'	9313'	5457'
TOTAL	2287'			

STAGE II

Core Drilling				
Lion Area - Item 5	none	99'	99'	901'
Sheep Canyon - Item 6	none	50'	50'	1950'
Wagon Drilling				
Sheep Canyon - Item 6	352'	2236'	2588'	7412'
Lion Areas - Items 1 and 2	274'	2637'	2911'	2089'
Lion Area - Items 3 and 4	494'	1723'	2217'	2783'
TOTAL	1120'			

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

224 New Customhouse
Denver 2, Colorado

January 7, 1955

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket DMEA 2768 (Uranium), Contract Idm-E520, Mining Research Corporation, Fall River County, South Dakota

Enclosed are two copies of the Operator's Monthly Progress Report, Form MF-104 and 104A, Operator's Narrative Report, Inspecting Engineer's Narrative Report, and other supporting data pertaining to work under the subject contract for the month of October 1954.

W. H. King

Encls.

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

224 New Customhouse
Denver 2, Colorado

January 3, 1955

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region III

Subject: DMEA Docket 2768 (Uranium), Contract Idm-E520, Mining Research Corporation, Fall River County, South Dakota - Operator's Monthly Progress Report for the period October, 1954

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

Work has been completed as authorized by the contract. No documentation is required for work performed under contracts prepared on Form MF-200A, therefore we recommend that payment be made for 90 percent for Stage I and 75 percent for Stage II of the amount reported by the Operator on Form MF-104, contingent on your verification of arithmetical accuracy within the report.

Remarks:

Date of Report	November 8, 1954
Date Received in Field Office	November 7, 1954
Date Received in Region Office	November 26, 1954

W. H. King

W. H. King

Enclosures

RDB:ld

Copy to: Sec. Opr. Comm. (2)
E. O. Binyon
sub
Chron

P. O. Box 356
Edgemont, South Dakota

November 10, 1954

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

Via: Rapid City Field Office
School of Mines Campus
Rapid City, South Dakota

Attention: Mr. E. C. Binyon

Gentlemen:

Re: Progress Report, October 1954
DMEA Contract No. 2768-Idm. E-520

Enclosed you will find six copies of our monthly progress report and unit cost summary statement for October, 1954, under DMEA Contract No. 2768-Idm. E-520. The enclosed report includes the following: (1) Operator's Monthly Report and Voucher, (2) Operator's Unit Cost and Progress Report, (3) Narrative Report, including a summary of drilling in the Lien area and a summary of drilling in the Sheep Canyon area, (4) Progress Maps for October.

You also will find enclosed three additional copies of the progress map for September, which are being forwarded pursuant to your request.

During October one hole (170 feet deep) was drilled on McKnight No. 1, which is ground included in our original contract. Accordingly, the government participation on the drilling of this hole is 90 percent. All other drilling was in areas covered by the amendment to our contract under which the government participation is at the rate of 75 percent.

Very truly yours,

J. Sterling Livingston

J. Sterling Livingston
Vice President and Treasurer

JSL:ar
Enclosures

MINING RESEARCH CORPORATION

Drilling Costs*

Month of October, 1954

Costs Applicable to the Overall Project

Labor and Supervision	$1,451.32
Operating Materials & Supplies	344.77
Operating Equipment	148.50
Miscellaneous Expenses	1,621.66
Total, Over-all	$3,566.25

Costs Applicable to Diamond Drilling

Labor	$ 28.00
Operating Materials & Supplies	72.60
Operating Equipment	50.00
Total, Diamond Drilling	$150.60

Costs Applicable to Wagon Drilling

Labor	$ 672.10
Operating Materials & Supplies	885.25
Operating Equipment	170.00
Rotary Drilling Sub-Contractor's Fee	1,108.80
Total Directly Applicable	$2,836.15
Over-all Costs Allocable to Wagon Drilling	3,566.25
	$6,402.40

*These are actual costs incurred and invoiced during the month. Costs which have been incurred but not yet invoiced are not included.

SHEEP CANYON AREA

D.M.E.A. CONTRACT PROGRESS

Hole No.	Wagon Drill	Rotary Drill	Depth	Remarks
84		x	190'	9' of Brown SS with count. No chemical assay
101		x	153'	30' of SS with count. Assays on 2' at .18 - 2' at .03 - 2' at .05
102		x	145'	36' of SS that counts. 7' at .03 - 2½' at .07.
107		x	115'	25' of SS with count. 5' at .03 - 2½' at .218
106		x	145'	35' of SS with count. 5' at .04 - 2½' at .03
105		x	145'	32' of SS with count. 2½' at .03 - 2½' at .04
500	x		82'	6' SS with count. No chemical.
503	x		54'	Blank
503A	x		86'	Blank
507		x	130'	Not Probed
110		x	82'	Not Probed
501	x		68'	Not Probed
519		x	70'	Blank
504		x	112'	25' of SS with count. No chemical.
TOTAL	290'	1287'		

LION AREA

D.M.E.A. CONTRACT PROGRESS

Hole No.	Depth	Wagon Drill	Rotary Drill	Remarks
1200	72'	x		Not Probed
1024	28'	x		Not Probed
1044	56'	x		Not Probed
1069	61'	x		Not Probed
1070	60'	x		Not Probed
1071	50'	x		Not Probed
1072	56'	x		Not Probed
1073	20'	x		Not Probed
1074	26'	x		Not Probed
1075	54'	x		Not Probed
1076	64'	x		12' SS with count. No chemical.
1077	70'	x		6' SS with count. No chemical.
1078	67'	x		8' SS with count. No chemical.
1080	74'	x		6' of Trace. No chemical.
1081	74'	x		14' of SS with count. No chemical.
1089	44'	x		Blank
1091	60'	x		Not Probed
1093	52'	x		Not Probed
1095	60'	x		Not Probed
1097	30'	x		Not Probed
1099	56'	x		Not Probed
1100	10'	x		Not Probed
1198	62'	x		Not Probed
1193	74'	x		Not Probed

COPY

LION AREA (Cont.)

Hole No.	Depth	Wagon Drill	Rotary Drill	Remarks
1190	66'	x		Not Probed
1189	70'	x		Not Probed
1183	66'	x		18' with high count. No chemical.
1182	62'	x		Not Probed
1181	46'	x		Not Probed
1175	50'	x		Not Probed
[redacted]	[redacted]	[redacted]		[redacted]
[redacted]	[redacted]	[redacted]		[redacted]
1174	54'	x		Not Probed
1173	61'	x		Not Probed
1167	34'	x		Trace No chemical.
1166	42'	x		Trace No chemical.
1165½	36'	x		10' SS with count. No chemical.
1163	30'	x		Blank
1162	72'	x		8' SS with count. No chemical.
1161	68'	x		20' with count. No chemical.
1160	66'	x		16' SS with count. No chemical.
1143	54'	x		Not Probed
1142	64'	x		Trace No chemical.
1141	66'	x		8' SS with count. No chemical.
1146	67'	x		Trace No chemical.
1101	74'	x		Not Probed
1102	46'	x		Not Probed
306½	48'	x		6' SS with count. No chemical.
250½	52'	x		16' SS with count. No chemical.
251½	40'	x		14' SS with count. No chemical.
1172	63'	x		Not Probed
1171	60'	x		Not Probed
1170	52'	x		Not Probed
McK. #1	170'		x	30' SS with high count. No chemical
1138	38'	x		This hole was started in Sept. Drilled 58'
1164	14'	x		This hole was started in Sept. Drill 52'
TOTAL		2850'	170	

COPY

NARRATIVE REPORT

October 1954

The position of holes drilled during the month is shown on the two accompanying progress maps for the Sheep Canyon Area and for the Lion Area. Drilling in the Sheep Canyon Area to depths greater than 80 feet must be done with rotary equipment rather than by wagon drilling. A deep hole (190 feet) was drilled in the Lion Area (See Hole marked McK. No. 1) to determine the stratographic position of the Lion mineral horizons relative to the Sheep Canyon horizons.

Lion Area

Two long lines of holes were drilled in the Lion Area to determine the trends of mineralization. The results of this drilling have been discouraging.

Drilling on Lion 8 claim and on Lion 13 claim is for the purpose of extending the known trend of low-grade mineralization. Since the resumption of drilling, holes have not penetrated mineralization higher in grade than .05.

Sheep Canyon Area

Drilling in the Sheep Canyon area is both slow and expensive because of the depth of holes and friability of the sandstones.

Hole No. 5 was started in September, but deepened in October. The footage was inadvertently overlooked in this months report, but will be included next month. The hole is approximately 100 feet behind the rim adjacent to an ore exposure. Seven and a half feet of ore at depth 102½ to 110 was penetrated which averages 0.11 percent U_3O_8. The zone penetrated is perhaps 15 feet lower stratigraphically than that in which the prospected adit was driven.

On the same side of the canyon in the vicinity of holes 101 to 110 chemical assays showing ore may be in error and are being checked.

On the opposite side of the canyon, Hole 504 penetrated 2½ feet of commercial grade ore behind a rim exposure of commercial grade ore. Other drill holes in the same vicinity are barren.

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

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of October 1955 Docket No. DMEA 2700 Contract No. 1-520

Operator's Name Mining Research Corporation Minerals Uranium

Address Box 356, Edgemont, South Dakota

Contract Amount, $ 52,873.00 Government Participation: 75 & 90 % Amount, $ 42,307.20

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Contracts:	None	2,617.92	2,617.92	—	2,617.92	2,617.92
Shafting						
Drilling						
Bulldozing 4577'	3,999.39	7,851.75	11,851.14	3,999.39	7,851.75	11,851.14
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	3,999.39	10,469.67	14,469.06	3,999.39	10,469.67	14,469.06

Note: One (1) wagon drill hole (hole #1 170 feet) was on land covered by original contract on which Government participation is 90%; the remaining footage is 75%.

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

Date 11/8/55 *Payee Vice Pres. & Treasurer

Per J. Sterling Livingston Title

*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:

$ 3021.93

Signature [illegible] (Authorized Certifying Officer)

Date 1/5/55 Vou. No. DMA-55-47

(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. DMEA 580 in accordance with the terms of the contract.

Signature E. O. Bingson Title Mining Engineer Date November 25, 1954

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE: Berk

Signature ..... Title ..... Date .....

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of October 1951 Docket No. DMEA 2763 Contract No. Ida. E-520
Operator's Name Mining Research Corporation Minerals Granite
Address Box 356, Sugemont, South Dakota

OPERATION	Unit	Costs This Month	Units This Month	Costs to Date	Units to Date	Unit Costs to Date	Authorized by Contract: Units	Authorized by Contract: Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts								
Winzes								
Drilling: Core Rotary	ft.	$ 150.69	0	$ 5,332.87	364	$6.13		$3.03
Rotary	ft.	6,437.10	4,597	24,990.35	13,622			.87
Churn								
Auger								
Authorized by Contract:								
Stripping							1,595*	
Drilling-Core	ft.	0	0	$2,617.92	364	3.03	3,000*	3.03
Trenching							14,770*	
Drilling-Auger & Rotary	ft.	3,999.39	4,597	11,951.44	13,622	.87	30,605*	.87
Test Pits								
Roads and Trails								
Total Distributed Costs		3,999.39		$24,169.36	* Phase I Phase II (amendment)			Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Total Costs		3,999.39		24,169.36				$52,373.00

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

Date 11/8/51 Operator Mining Research Corporation

Per J. Sterling Livingston Title Vice Pres. & Treas.

Remarks: See notes on attached summary of costs.

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)

As noted by operator on Form MF 104:

4427 ft. @ $.87/ft.	=	$ 3,851.49	@ 75%	=	$2,888.62	
170 ft. @ $.87/ft.	=	147.90	@ 90%	=	133.11	Hole drilled in Area I under Stage I
Totals 4597 ft.		$ 3,999.39			$3,021.73	

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

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

224 New Customhouse
Denver 2, Colorado

January 6, 1955

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket DMEA 2768 (Uranium), Contract Idm-E520, Mining Research Corporation, Fall River County, South Dakota

Enclosed are two copies of the Operator's Monthly Progress Report, Form MF-104 and 104A, Operator's Narrative Report, Inspecting Engineer's Narrative Report, and other supporting data pertaining to work under the subject contract for the month of September 1954.

W. H. King

W. H. King

Encls.

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

224 New Customhouse
Denver 2, Colorado

January 3, 1955

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region III

Subject: DMEA Docket 2768 (Uranium), Contract Idm-E520, Mining Research Corporation, Fall River County, South Dakota - Operator's Monthly Progress Report for the period September, 1954.

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

Work has been completed as authorized by the contract. No documentation is required for work performed under contracts prepared on Form MF-200A, therefore we recommend that payment be made for 75 per cent of the amount reported by the Operator on Form MF-104, contingent on your verification of arithmetical accuracy within the report.

W. H. King

Enclosures

RDB:ld

Copy to: Sec. Opr. Comm. (2)
E. O. Binyon
sub
chron

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

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

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

Month of September, 1954 Docket No. DMEA 2768 Contract No. Ida. R-520
Operator's Name Mining Research Corporation Minerals Uranium
Address Box 356, Edgemont, South Dakota
Contract Amount, $ 52,873.00 Government Participation: 75 % Amount, $ 42,307.20

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Contracts: Short Form						
Drilling Core (149' @ $3.03)	451.47	2,166.45	2,617.92	451.47	2,166.45	2,617.92
Blasting Wagon &						
Grouting Rotary						
Drilling 2169' @ 57¢	1,887.03	5,964.72	7,851.75	1,887.03	5,964.72	7,851.75
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	$2,338.50	$8,131.17	$10,469.67	2,338.50	8,131.17	10,469.67

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

Date 10/14/54 *Payee Mining Research Corporation

Per J. Sterling Livingston Title Vice Pres. & 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:

$ 1752.88

Signature Randall Cooper
(Authorized Certifying Officer)

Date 11/5/54 Vou. No. [illegible]

(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-520 in accordance with the terms of the contract.

Signature E. O. Binyon Title Mining Engineer Date November 9, 1956

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature O. B. Needham Title Exec Officer Date 11/12/56

Berk.

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 83-38476

Form MF-104A
(April 1952)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of September 195[illegible] Docket No. DMEA 2768 Contract No. Idm. I-520

Operator's Name Mining Research Corporation Minerals Uranium

Address Box 356, Edgemont, South Dakota

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts								
Winzes								
Drilling: Core	ft.	688.96	149	5,152.27	864	5.96		3.03
Churn	ft.	3,689.10	2169	18,567.95	9,025	2.02		.87
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Authorized by Contract: Core	ft.	451.47	149	2,617.98	864	3.03	1575* 3000**	3.03
Churn & Rotary	ft.	1,837.03	2,169	7,851.75	9,025	.87	14775* 30000**	.87
TOTAL DISTRIBUTED COSTS		$2,338.50		$10,469.67			* Phase I ** Phase II (Amendment)	TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		$2,338.50		$10,469.67				$52,873.00

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

Date October 14, 195[illegible] Operator Mining Research Corporation

Per J. Sterling Livingston Title Vice Pres. & Treas.

REMARKS: See notes on attached summary of costs.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

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

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

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

GPO 83-38475

Box 356
Edgemont, South Dakota

October 13, 1954

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

Via: Rapid City Field Office
School of Mines Campus
Rapid City, South Dakota

ATTENTION: Mr. E. O. Binyon

Gentlemen:

Re: Progress Reports, September 1954
DMEA Contract No. 2768 Idm. E-520

Enclosed you will find six copies of our monthly progress report and unit cost summary statement for September, 1954, under DMEA Contract No. 2768-Idm. E-520. The enclosed report includes the following statements for September: (1) Operator's Monthly Report and Voucher, (2) Operator's Unit Cost and Progress Report, (3) Narrative Report; the following statements for September: (1) Operator's Monthly Report and Voucher, (2) Operator's Unit Cost and Progress Report, (3) Narrative Report. Enclosed also are progress sketches for September at the Lion and Sheep Canyon areas.

Sincerely,

MINING RESEARCH CORPORATION

Clifton W. Livingston

Clifton W. Livingston
President

CWL:lh
Enclosures

MINING RESEARCH CORPORATION

Drilling Costs

Month of September, 1954

Costs Applicable to the Over-all Project	
Labor & Supervision	$1345.36
Operating Materials & Supplies	605.05*
Operating Equipment	148.50
Miscellaneous Expenses	271.71*
Total, Over-all	$2370.62
Costs Applicable to Diamond Drilling	
Labor	362.00
Operating Materials & Supplies	34.50*
Operating Equipment	50.00
Miscellaneous Expenses	5.40*
Total Directly Applicable	451.90
Over-all Costs Allocable to Diamond Drilling	237.06
Total, Diamond Drilling	$ 688.96
Costs Applicable to Wagon Drilling	
Labor	624.00
Operating Materials & Supplies	279.54*
Operating Equipment	170.00
Miscellaneous Expenses	25.50*
Total Directly Applicable	1099.04
Over-all Costs Allocable to Wagon Drilling	2133.56
Total, Wagon Drilling	$3232.60
Rotary Drilling Sub-contractor's Fee	456.50
	$4378.06

* These are the actual costs which have been accumulated to date. Total costs in these categories will not be known for about 30 days. A revised report will be submitted when these total costs are known. We estimate that this revision will increase the grand total by $800 - $1000.

D.M.E.A. NARRATIVE REPORT

September 1954

During September, drilling was resumed under amended contract DM - E-520 which provided for inclusion of areas here referred to as the Railroad Cut Area and the Lion Area.

The positions of holes drilled in the two newly included areas are shown on the attached progress maps. Two lines of holes 600 feet apart were drilled across the assumed trend of the ore areas. Low grade mineralization was encountered in holes 1005, 1007, and 1008. Low grade mineralization also was encountered in certain of the holes on Lion 8 and Lion 13 claims as described in the accompanying log of drill results. The presence of mineralization is based upon geiger counter probe readings for the most part except in hole 1105 in which a 12 ft. thick zone contains mineral ranging from .03 to .05 percent U_3O_8 (chemical assays).

Drill holes in the Railroad Cut Area encountered caving ground and difficult drilling. It is too early to appraise the drilling results.

D.M.E.A. CONTRACT PROGRESS

September 1954

Sheep Canyon Area

Hole No.	Depth	Wagon Drill	Rotary Drill	Diamond Drill	Remarks
1	50'		x		Incomplete
2	160'		x		Incomplete
3	64'	x			Incomplete
4	25'	x			Incomplete
47	190'		x		2' low grade 78'-80' (Prober reading) 6' low grade 88'-94' (Prober reading) No probe below 98', sample pending
8	50'			x	Blank
7	100'		x		Caving ground at ore horizon
50	46'	x			Incomplete (caving ground)
55	24'	x			Incomplete (caving ground)

D.M.E.A. CONTRACT PROGRESS

September 1954

Lion Area

Hole No.	Depth	Wagon Drill	Rotary Drill	Diamond Drill	Remarks
1005	62'	x			4' Min. 12' to 16'
1006	99'			x	To Mary Jack Sand
1007	58'	x			2' Min. 10' to 12'
1008	59'	x			2' Min. 16' to 18'
1009	79'	x			No data - Probe lost in hole
1082	70'	x			2' Min. 28' to 32'
1084	48'	x			Blank
1085	58'	x			Trace @ 16'
1086	72'	x			Trace 16' to 20', Trace 48' to 52'
1087	69'	x			Blank
1103	64'	x			Trace Min. 42' to 46'
1104	56'	x			10' @ .044 from 26' to 36'
1105	54'	x			12' @ .03 to .05 from 34' to 46'
1106	42'	x			Blank
1107	34'	x			Trace Min. 12' to 28'
1108	31'	x			Trace Min. 16' to 20'
1109	20'	x			Trace Min. 6' to 12'
1110	24'	x			Min. 8' to 16'
1112	40'	x			Min. 18' to 30'
1119	14'	x			No cutting return. Not probed yet
1120	42'	x			Not probed yet
1111	38'	x			Not probed yet

Hole No.	Depth	Wagon Drill	Rotary Drill	Diamond Drill	Remarks
1122	30'	x			Not probed yet
1003	32'	x			Blank
1004	54'	x			2' Min. 14' to 16'
1124	40'	x			Not probed yet
1125	36'	x			Not probed yet
1002	26'	x			Not probed yet
1001	35'	x			Not probed yet
1145	55'	x			Not probed yet
1147	51'	x			Not probed yet
1123	36'	x			Not probed yet
1165	43'	x			Tracing Min. 22' to 26', also 32' to 38'
1164	38'	x			Not probed yet

Total
Footage 1609

WORK PROGRESS REPORT

Docket 2768

Contract IEW R-520

Month September, 1954

Company Mining Research Corp (Uranium)

Property Fall River County, S. Dak. Gull-Sheep Canyon & Lion Claims

DRILLING - The following holes were completed this period:

Lease	Hole	Date started	Date completed	Depth
Gull-Sheep-Canyon	D.D. No. 8	Sept. '54	Sept. '54	50 ft.
	W.D. No. 3, 4, 50, & 55	" '54	" '54	150 ft.
	R.D. No. 1, 2, 7, & 47	" '54	" '54	300 ft
Lion	D.D. 1003	" '54	" '54	99 ft.
	33 holes (No. 1001-1003, 1007-1[illegible], 1024-1031, 1203-1[illegible], 1203-1[illegible], 1[illegible]-1[illegible], 1[illegible]A-2165)	" '54	" '54	1610 ft
	Total D.D. [illegible]			149 ft.
	R.D. [illegible]			[illegible] ft
	W.D. [illegible]			1469 ft.

The following holes were in progress this period, but not completed:

Lease	Hole	Date started	Footage	Remarks
[illegible]	D.D. [illegible]		[illegible]	[illegible] for [illegible]
	W.D. [illegible]			
	D.D. No. 9			

[illegible] holes, all holes in the Gull-Sheep Canyon [illegible] Nos 47 shall be drill footage if possible

TOTAL (completed) ([illegible]) footage this period [illegible] To date

D.D.	[illegible] ft.	[illegible] ft.
R.D.	[illegible] ft.	[illegible] ft.
W.D.	[illegible] ft.	[illegible] ft.
Total	[illegible] ft.	[illegible] ft.

[illegible] footage

DRIFTING AND CROSSCUTTING - Headings were advanced as follows:

Name and location	Average cross-section	Advance From-	Advance To-	Advance for period	Total advance to date	Remarks

Not applicable

TRENCHING AND TEST PITTING - The following excavations were in progress this period:

Name and location	Depth [illegible]	Depth [illegible]	Depth [illegible]	Depth [illegible]	Remarks

OTHER MAJOR WORK -

None

All work was performed by [illegible] and the official [illegible]. Monthly [illegible] certified invoice, [illegible] by the contractor under [illegible], [illegible], [illegible], and been [illegible] by me.

Notes: Forms [illegible] are [illegible] [illegible] to operate [illegible] operations.

[illegible] 1948

[illegible]

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
Region V
2908 Colfax Avenue South
Minneapolis 8, Minnesota

November 30, 1953

Memorandum

To: Operating Committee, Defense Minerals Exploration Administration, Washington, D. C.

From: Executive Officer, Field Team, Region V

Subject: Operator's Monthly Report and Voucher for the months of September and October 1953, Docket DMEA 2768, Contract Idm-E-520, Mining Research Corporation, Edgemont, South Dakota

Attached are two copies of the subject report for the months of September and October 1953, as processed for payment, for your files.

A. B. NEEDHAM

Attachments

Released for Public Release

MINING RESEARCH CORPORATION

MONTHLY PROGRESS REPORT

and

UNIT COST STATEMENT

MREA Contract 2768, Idn.B-520

---ooOoo---

September and October, 1953

P. O. Box 356
Edgemont, South Dakota

RECEIVED
NOV 13 1953
Dept. of Interior
Bureau of Mines
Rapid City,
South Dakota

November 4, 1953

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

Via: Rapid City Field Office
School of Mines Campus
Rapid City, South Dakota

Attention: Mr. E. C. Binyon

Gentlemen:

Re: Progress Reports, Sept. and Oct., 1953
DMEA Contract No. 2768-Idm. E-520

Enclosed you will find six copies of our monthly progress report and unit cost summary statement for September, 1953, and October, 1953, under DMEA Contract No. 2768-Idm. E-520. The enclosed report includes the following statements for September: (1) Operator's Monthly Report and Voucher, (2) Operator's Unit Cost and Progress Report, (3) Narrative Report; the following statements for October: (1) Operator's Monthly Report and Voucher, (2) Operator's Unit Cost and Progress Report, (3) Narrative Report. Enclosed also is a progress sketch for both September and October.

Sincerely,

J. Sterling Livingston

J. Sterling Livingston
Vice President and Treasurer

JSL:bll
Enclosures

Form MF-101 (Rev.)
(April 1952)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
Defense Minerals Administration
DEC 2 - 1953

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of October, 1953 Docket No. DMEA 2768 Contract No. Idm. E-520
Operator's Name Mining Research Corporation Minerals Uranium
Address P. O. Box 356, Edgemont, South Dakota (Field Office)
Contract Amount, $52,873.00 Government Participation: 90 % Amount, $47,585.70

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling Core						
~~Footing~~ 245' @ 3.03	742.35	1,424.10	2,166.45	742.35	1,424.10	2,166.45
~~Crossing~~ Wagon						
~~Footing~~ 0 @ .87	0	5,964.72	5,964.72	0	5,964.72	5,964.72
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	742.35	7,388.82	8,131.17	742.35	7,388.82	8,131.17

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

Date Nov. 4, 1953 *Payee MINING RESEARCH CORPORATION

Per J. Sterling Livingston Title Vice Pres. & 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:

$ 6,681.11 HG

Signature L. A. Heel
(Authorized Certifying Officer)

Date NOV 25 1953 Vou. No. 14
(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. [illegible]-520 in accordance with the terms of the contract.

Signature E. D. Bunyon Title Mining Engineer Date November 26, 1953

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature ..... Title ..... Date .....

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 83-38476

Form MF-104A
(April 1952)

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

DEC 2 1953

14

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of October 1953 Docket No. DMEA 2768 Contract No. Idm. E-520
Operator's Name Mining Research Corporation Minerals Uranium
Address P. O. Box 356, Edgemont, South Dakota (Field Office)

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts								
Winzes								
Drilling: Core	ft.	1,915.58	245	4,463.31	715	6.24		3.03
Wagon	ft.	0	0	14,898.85	6,856	2.17		.87
Auger								
Authorized by Contract:								
Core	ft.	742.35	245	2,166.45	715	3.03	1595*	3.03
Wagon	ft.	0	0	5,964.72	6,856	.87	14770*	.87
Roads and Trails							3000**	3.03
							30000**	.87
TOTAL DISTRIBUTED COSTS		742.35	245 0	8,131.17	*Phase I **Phase II			TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		742.35		8,131.17				52,873.00

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

Date Nov. 4, 1953 Operator MINING RESEARCH CORPORATION

Per J. Sterling Livingston Title Vice Pres. & 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.

REMARKS: Costs for October are based on a four-month average and will be revised as soon as actual costs are known. See attached summary.

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

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

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

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

GPO 83-38475

MINING RESEARCH CORPORATION

COST SUMMARY

(DMEA Form MF-104A)

October, 1953

Costs Applicable to the Over-all Project		
Labor and Supervision	$1,102.60	
Operating Materials and Supplies	1,212.36	
Operating Equipment	148.50	
Miscellaneous Expenses	295.35	
Total, Over-all Costs		$2,758.81
Costs Applicable to Diamond Drilling		
Labor	$ 958.38	
Operating Materials and Supplies	113.39	
Operating Equipment	60.00	
Miscellaneous Expenses	94.11	
Total, Directly Applicable		1,225.88
Over-all Costs Allocable to Diamond Drilling (25%)		689.70
Total Costs		$1,915.58

MINING RESEARCH CORPORATION

Narrative Report

October, 1953

During October, drilling was confined to core drilling in the area where primary ore is believed to have been discovered. Six holes, with a total of 245 feet, were drilled during the month.

Diamond drill cores as logged indicate about 85% core recovery. The 15% loss occured for the most part in the first 15 feet. This particular ground is composed of a coarse, loosely-bound sandstone with large to medium bulbs of mudstone inclusions. After passing this portion of ground, however, the core recovery is for the most part 100%. Mineralization, as regards mn & Fe, becomes apparent about 30 feet and continues to the contact of the sandstone with the Fuson shale. It is through this area where U_3O_8 has shown up in the two mineralized holes. Heavy mineralization occurs in all holes (mn & Fe) about 2 feet above the Fuson shale and continues to the Fuson contact. It can be assumed that further drilling in this area will correlate other holes showing U_3O_8 with the two already drilled.

MINING RESEARCH CORPORATION

Summary of Diamond Drilling

October, 1953

Hole No.	Depth	Date Drilled	Predominant Material	U_3O_8 Mineralized
D-19	31.0'	Oct. 1	SS w/spotty limonite	No
D-20	43.5'	Oct. 7	SS w/spotty limonite	No
D-21	42.5'	Oct. 9	SS w/spotty limonite	Yes
D-22	43.0'	Oct. 10	SS w/spotty limonite	Yes
D-23	45.0'	Oct. 12	SS w/spotty limonite	No
D-24	40.0'	Oct. 24	SS w/spotty limonite	No
	245.0'			

6 holes drilled
245' total depth
40.8' average depth
33 1/3% of holes drilled mineralized

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

Defense Minerals Administration
RECEIVED
DEC 2 - 1953

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of September, 1953 Docket No. DMEA 2768 Contract No. Idm.E-520
Operator's Name Mining Research Corporation Minerals Uranium
Address P. O. Box 356, Edgemont, South Dakota (Field Office)
Contract Amount, $ 52,873.00 Government Participation: 90 % Amount, $ 47,585.70

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling Core	None	1,424.10	1,424.10	0	1,424.10	1,424.10
~~Bulldozing~~ Wagon ~~Crosscutting~~ 713'@.87	620.31	5,344.41	5,964.72	620.31	5,344.41	5,964.72
Drifting						
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	620.31	6,768.51	7,388.82	620.31	6,768.51	7,388.82

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

Date Nov. 4, 1953 *Payee MINING RESEARCH CORPORATION

Per J. Sterling Livingston Title Vice Pres. & 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:

$ 558.28 AG

Signature L. A. Hill
(Authorized Certifying Officer)

Date NOV 25 1953 Vou. No. 14
(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 B-520 in accordance with the terms of the contract.

Signature E O Benyon Title Mining Engineer Date November 16, 1953

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature O B Meeaham Title Ex Dy Date 11/23/53

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 83-38476

Form MF-104A
(April 1952)

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

14

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of September 1953 Docket No. DMEA 2768 Contract No. Idm. E-520
Operator's Name Mining Research Corporation Minerals Uranium
Address P. O. Box 356, Edgemont, South Dakota (Field Office)

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts								
Winzes								
Drilling: Core	ft.	0	0	2,547.73	470	5.42		3.03
Wagon	ft.	3,108.33	713	14,898.85	6,856	2.17		.87
Auger								
Authorized by Contract:								
Core	ft.	0	0	1,424.10	470	3.03	1595*	3.03
Wagon	ft.	620.31	713	5,964.72	6,856	.87	14770*	.87
Roads and Trails							3000**	3.03
							30000**	.87
TOTAL DISTRIBUTED COSTS		620.31	0 713	7,388.82	*Phase I **Phase II			TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		620.31		7,388.82				$2,873.00

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

Date Nov. 4, 1953 Operator MINING RESEARCH CORPORATION

Per J. Stirling Livingston Title Vice Pres. & 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.

REMARKS: Costs for September are based on actual experienced costs for the month. See attached summary of costs.

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

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

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

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

GPO 83-38475

MINING RESEARCH CORPORATION

COST SUMMARY
(DMEA Form MF-104A)

September, 1953

Costs Applicable to the Over-all Project		
Labor and Supervision	$1,080.80	
Operating Materials and Supplies	954.57	
Operating Equipment	148.50	
Miscellaneous Expenses	155.94	
Total, Over-all Costs		$2,339.81
Costs Applicable to Wagon Drilling		
Labor	$ 151.91	
Operating Materials and Supplies	431.69	
Operating Equipment	170.00	
Miscellaneous Expenses	14.92	
Total, Directly Applicable		768.52
Total Costs		$3,108.33

MINING RESEARCH CORPORATION

Executive Report

September, 1953

Due to mechanical troubles with the drill-rig and the manufacturer's long delay in sending and installing new parts, only eleven holes were drilled in the period of Sept 1 to 30 inclusive. These holes were located in one line 300 feet to the South from holes 427 to 435, for the purpose of detecting any possible extension in that direction of the mineralization found in hole 429. The results were negative, both with the probe and with the scintillometer checking drill cuttings. No higher than 'Trace' readings were obtained.

REPORT # 4

SUMM[illegible] [illegible]ION DRILLING IN SEPTEMBE[illegible]

Hole No.	Coordinates North	Coordinates East	Elev.	Predominant Material	Ore Zones	Probe Kicks (All Weak)	Shale Bands	Shale Bed	Red
534	18686	20241		Buff to Brown SS	None	43'	25-37,59		62
535	18658	20200		White SS & Brown SS	None	42,43	43-47		62
536	18630	20159		Brown & White SS Red & White below 58'	None	None	33-36 50-54		70
537	18602	20118		Brown S S	None	43	44-48 54-60		75
538	18574	20077		Brown SS	None	40,41	52-54 58-60		68
539	18714	20282		White SS, Some Brown	None	36,44,47			66
540	18742	20323		Buff to Lt.Gray SS	None	40-47	38-44 46-50	44-46 60-62	64
541	18770	20364		Limonitic&Brown SS	None	44-48	58-64 74-82 86-88	82-84	88
542	18798	20406		Limonitic SS & Buff SS	None	42-48	42-54		58
543	18826	20447		Buff SS	None	40-50	40-46 48-50	54-58	60
544	18854	20488		Brown SS	None	None	36-40		40

Defense Minerals Administration
RECEIVED
OCT 5 1953

10

P. O. Box 356
Edgemont, South Dakota

September 19, 1953

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

Via: Rapid City Field Office
School of Mines Campus
Rapid City, South Dakota

Attention: Mr. E. O. Bizyen

Gentlemen:

Re: Progress Report, August, 1953
DMEA Contract No. 2768-Idm.E-520

Enclosed you will find six copies of our monthly progress report and unit cost summary statement for August, 1953, under DMEA Contract No. 2768-Idm.E-520. The enclosed report includes the following: (1) Operator's Monthly Report and Voucher, (2) Operator's Unit Cost and Progress Report, (3) Narrative Report, (4) Progress Sketch, (5) Summary of Wagon Drilling in August, and (6) Summary of Diamond Drilling in August.

Although a summary of diamond drilling for the month is enclosed, our diamond drill cores have not been thoroughly analyzed to date, and therefore, we have not yet submitted a summary of diamond drilling results. We hope to have this summary ready for submission with our next report.

It would greatly assist us in the preparation of our monthly progress reports if you would send us 25 copies of Forms MF-104 and MF-104A.

Sincerely,

J. Sterling Livingston

J. Sterling Livingston
Vice President and Treasurer

JSL:bll
Enclosures

F-104 (Rev.)
pril 1952)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

DEPARTMENT OF THE INTERIOR RECEIVED Defense Mineral Administration RECEIVED OCT 16 1953 BUREAU OF MINES RAPID CITY, S. D.

OPERATOR'S MONTHLY REPORT AND VOUCHER

onth of August, 1953 Docket No. DMEA 2768 Contract No. Idm.E-520
perator's Name Mining Research Corporation Minerals Uranium
Address P. O. Box 356, Edgemont, South Dakota (Field Office)
ontract Amount, $ 52,873.00 Government Participation: 90 % Amount, $ 47,585.70

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling Core 204 @3.03	663.57	760.53	1,424.10	663.57	760.53	1,424.10
Wagon Drilling 2,302 @.87	2,002.74	3,341.67	5,344.41	2002.74	3341.67	5,344.41
Drifting						
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	2,666.31	4,102.20	6,768.51	2,666.31	4,102.20	6,768.51

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

Date Sept. 19, 1953 Payee Mining Research Corporation

Per J. Sterling Livingston Title Vice President & 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)

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

$ 2399.68 AH

Signature L. A. Hee
(Authorized Certifying Officer)

Date OCT - 7 1953 Vou. No. 10
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. 2768 in accordance with the terms of the contract.

Signature E. V. Bunyon Title Mining Engineer Date September 25, 1953

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature C. B. Needham Title Ex Off Date 10/5/53

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 83-38476

Form MF-104A
(April 1952)

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 16 1953

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

10

Month of August 1953 Docket No. DMEA 2768 Contract No. Idm.E-520
Operator's Name Mining Research Corporation Minerals Uranium
Address P. O. Box 356, Edgemont, South Dakota (Field Office)

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts								
Winzes								
Drilling: Core	ft.	829.73	219	2,547.73	470	5.42		3.03
Chum Wagon	ft.	3,437.51	2,302	11,790.52	6,143	1.92		.87
Auger								
Summary Authorized by Contract:								
Transfer Core Drilling	ft.	663.57	219	1,424.10	470	3.03	1595*	3.03
Transfer Wagon Drilling	ft.	2,002.74	2,302	5,344.41	6,143	.87	14770*	.87
Roads and Trails							3000**	3.03
							30000**	.87
TOTAL DISTRIBUTED COSTS		2,666.31	219 2,302	6,768.51	* Phase 6 ** Phase 13			TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		2,666.31		6,768.51				$52,873.00

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

Date September 19, 1953 Operator Mining Research Corporation

Per J. Sterling Livingston Title Vice President & Treas.

REMARKS: Costs for June and July have been revised on the basis of actual experienced costs for these months. Costs for August are estimated in part and will be revised when actual costs are known. See attached summary.

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.

U. S. GOVERNMENT PRINTING OFFICE 205676

MINING RESEARCH CORPORATION

COST SUMMARY
(DMEA Form MF-104A)

June, July, and August, 1953

	June*	July*	August**	Total to Date
Costs Applicable to the Over-all Project				
Labor & Supervision	$1,476.25	$1,096.25	$ 905.30	
Operating Materials & Supplies	1,039.12	1,557.44	1,298.28	
Operating Equipment	148.50	148.50	148.50	
Miscellaneous Expenses	272.50	555.98	214.82	
Total, Over-all	$2,936.37	$3,358.17	$2,566.90	$8,861.44
Costs Applicable to Diamond Drilling				
Labor	$ 127.52	$ 268.79	$ 196.55	
Operating Materials & Supplies	23.20	57.50	40.35	
Operating Equipment	30.00	60.00	60.00	
Miscellaneous Expenses	12.50	26.40	19.30	
Total Directly Applicable	$ 193.22	$ 412.69	$ 316.35	
Over-all Costs Allocable to Diamond Drilling	440.46(15%)	671.63(20%)	513.38(20%)	
Total, Diamond Drilling	$ 633.68	$1,084.32	$ 829.73	$2,547.73
Costs Applicable to Wagon Drilling				
Labor	$ 595.26	$ 692.69	$ 460.22	
Operating Materials & Supplies	790.63	626.50	708.57	
Operating Equipment	170.00	170.00	170.00	
Miscellaneous Expenses	58.44	67.04	45.20	
Total Directly Applicable	$1,614.33	$1,556.23	$1,383.99	
Over-all Costs Allocable to Wagon Drilling	2,495.91(85%)	2,686.54(80%)	2,053.52(80%)	
Total, Wagon Drilling	$4,110.24	$4,242.77	$3,437.51	$11,790.52

* Actual Costs.
** Partially estimated costs; to be revised.

MINING RESEARCH CORPORATION

Narrative Report

August, 1953

During the month of August exploratory drilling under DMEA Docket No. 2768, Contract No. Idm. E-520, was continued. Two thousand, three hundred and two feet of wagon drilling and 219 feet of diamond drilling were completed during the month. Although the wagon drill had been overhauled during the previous month, it consistently overheated, and drilling had to be discontinued on August 21; as soon as a new radiator is obtained for the compressor, drilling will be resumed.

The most significant development during the month was the verification by the Atomic Energy Commission that primary uraninite ore had been discovered in diamond drill holes #10 and #11, which were drilled during July.

The enclosed revised progress sketch indicates the holes drilled during the month of August. Holes #472 - #473 were intended to check showings in hole #397; holes #474 - #478 were to search for the possible eastward extension of ore shown in holes #436 and #437. Holes #479 to #485 were drilled outside the DMEA area and are not included in the summary of wagon drilling (Schedule A). The holes are spotted on the progress sketch, however. Holes #486 and $487 were intended to check showings in holes #456 and #457. Holes #488 - #497 were drilled to fill in the area between the ore showing in hole #395 and the north boundary of Area I.

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Holes #511 - #518 were drilled to explore for the continuation of the showings below the rim of Deadhorse Canyon. Holes #520 - #528 were intended to explore the area around DD #10 and DD #11, where primary ore is believed to have been found. Holes #529 - #531 were placed to start another row of holes closer to the Deadhorse anomaly.

Ore of commercial grade was found in 6 of the 53 wagon drill holes, and mineralization of .02 or better was found in 13 additional holes. Six feet of ore averaging .08% U_3O_8 was discovered in drill hole #513, suggesting the possibility of a new ore zone in that area. The diamond drill cores for August have not as yet been logged or assayed.

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MINING RESEARCH CORPORATION

Summary of Wagon Drilling

August 1953

Hole No.	Coordinates North	Coordinates East	Elev.	Predominant Material	Ore Zones (L - Lean)	Probe Kicks	Shale	End
472	21590	20507	4036	Buff S.S.	None	34-44	45	48
473	21492	20455	4030	Limonitic S.S.	"	39	40	42
474	21828	20947	4040	Buff & White S.S.	"	44	43	44
475	21856	20989	4041	Buff & White S.S.	L 28-32	28-32, 44	43	44
476	21884	21030	4045	Buff & White S.S.	None	44	44	46
477	21912	21071	4048	Limonitic S.S. Caving	"	None	-	18
478	21940	21113	4051	Lt. Brown S.S.	"	"	49	50
-				Not included				
-				Not included				
-				Not included				
-				Not included				
-				Not included				
-				Not included				
-				Not included				
486	21996	21836	4051	Buff & White S.S.	L 30-32	30-32, 49	49	50
487	22024	20878	4052	Buff & Brown S.S.	L 49	49	48	50
488	21851	20269	4052	Buff S.S.	L 18-36, 45	10-40, 43-46	45	48
489	21795	20186	4044	White S.S.	L 39	39	39	40
490	21879	20310	4056	Buff & Brown S.S.	L 24-38	3, 15-44, 48	49	50
491	21935	20393	4060	Buff & White S.S.	L 32	28-34, 46-49	52	54
492	21964	20434	4061	Buff & White S.S.	L 26, 42-46	23, 40-45	51	54

Minerals Administration
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Hole No.	Coordinates North	Coordinates East	Elev.	Predominant Material	Ore Zones	Probe Kicks	Shale	End
493	21990	20295	4060	Buff & White S.S.	L 28, 34-38	25-29, 32-44	40	50
494	21962	20254	4057	Buff & Limonitic S.S.	32-40	25-47	46	48
495	21934	20213	4053	Buff & Brown S.S.	L 26-36	22-37, 42	42	44
496	21906	20171	4049	White & Buff S.S.	L 39	39	39	40
497	21988	20115	4049	White & Buff S.S.	L 24-30	23-37	37	38
498	21381	20470	4023	Buff & Limonitic S.S.	None	37	37	38
499	21409	20510	4026	Limonitic S.S.	"	39	38	40
500	21438	20551	4027	Limonitic S.S.	L 28	23-30, 32, 40	41	42
501	21466	20592	4029	Buff S.S.	None	22, 33, 35	37	38
502	21522	20675	4030	Buff S.S.	L 27-30	27-33	33	34
503	21550	20716	4031	Buff & Limonitic S.S.	None	26-30, 36	36	38
504	21606	20799	4031	Buff S.S.	"	34	35	36
505	21634	20840	4031	Limonitic S.S.	"	34	35	36
506	21440	20731	4024	Limonitic S.S.	L 24-28	25-27	33	34
507	21412	20690	4022	Limonitic & Buff S.S.	None	24	29	30
508	21384	20648	4023	Limonitic S.S.	"	None	35	36
509	21355	20607	4022	Limonitic S.S.	26-30	24-34	35	36
510	21327	20566	4021	Limonitic S.S.	26-34	21-35	35	36
511	21304	21244	4036	White & Gray S.S.	None	None	61	62
512	21248	21161	4035	Limonitic S.S.	"	"	62?	62
513	21192	21078	4030	Limonitic S.S.	38-44	38-44	62?	62
514	21136	20996	4024	Limonitic S.S.	L 56	43	54	56
515	21080	20913	4018	Limonitic S.S.	None	45	44	46
516	21024	20830	4012	Limonitic S.S.	"	None	32	34
517	20968	20748	4008	Limonitic S.S.	"	"	32	34

Hole No.	Coordinates North	Coordinates East	Elev.	Predominant Material	Ore Zones	Probe Kicks	Shale	End
518	20912	20665	4005	Limonitic S.S.	None	None	34	36
519	21298	20526	4018	Limonitic S.S.	"	--	35	36
520	21468	20772	4027	Limonitic S.S.	Tr 26-30	28-30, 35, 36	36	38
521	21496	20814	4030	Limonitic S.S.	None	--	37	40
522	21524	20855	4032	Limonitic S.S.	"	None	37	42
523	21552	20896	4034	Limonitic S.S.	Not checked	--	46	46
524	21580	20938	4035	Limonitic S.S.	" "	30, 38-50	47	50
525	21608	20979	4037	Caving sand	--	--	--	16
526	21636	21020	4038	Limonitic S.S.	Not checked	38-43	51	52
527	21719	20964	4038	Limonitic S.S.	" "	--	--	48
528	21691	20922	4036	Limonitic S.S.	" "	Not probed	45	46
529	20636	21155	4020	Limonitic S.S.	None	None	--	62
530	20608	21114	4019	Limonitic S.S.	"	"	--	42
531	20580	21072	4017	Limonitic S.S.	"	"	--	60
				TOTAL - 53 holes				2,302

MINING RESEARCH CORPORATION

Summary of Diamond Drilling

August 1953

Hole No.			Bottom at
DM4	Bit recovered and hole drilled 15' 4" further		40' 4"
DM5			37' 6"
DM6			44' 10"
DM7			39' 4"
DM8			58' 0"
DM9	Incomplete	Drilled to	24' 0"
			219' 0"

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
Region V
2908 Colfax Avenue South
Minneapolis 8, Minnesota

September 18, 1953

Memorandum

To: Operating Committee, Defense Minerals Exploration Administration, Interior Building, Washington 25, D. C.

From: Executive Officer, Field Team, Region V

Subject: Operator's Monthly Report and Voucher for July 1953
Mining Research Corporation Docket DMEA 2768, Idm F-520

Attached are two copies of the subject report, as processed for payment, for your files.

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

Attachments - 2

cc: C. E. Dutton
E. O. Binyon (att)
Operator (att)
Region V
Files
Day Files

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

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

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

Month of July, 1953 Docket No. DMEA 2768 Contract No. Idm 8-520
Operator's Name Mining Research Corporation Minerals Uranium
Address P. O. Box 356, Edgemont, South Dakota (Field Office)
Contract Amount, $ 52,873.00 Government Participation: 90% Amount, $ 47,585.70

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling Core 20[illegible]3.03	618.12	142.41	760.53	618.12	142.41	760.53
Bulldozing						
Crosscutting						
Rotary Vacuum Drilling 2215'[illegible].87	1,927.05	1,414.62	3,341.67	1,927.05	1,414.62	3,341.67
(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						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	2,545.17	1,557.03	4,102.20	[illegible]	[illegible]	[illegible]

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

Date August 12, 1953 Payee Mining Research Corporation

Per J. Sterling Livingston Title Vice President & 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:

$ 2290.65 Ad

Signature L. A. Lee
(Authorized Certifying Officer)

Date SEP 16 1953 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. [illegible] in accordance with the terms of the contract.

Signature E. O. Benson Title [illegible] Date [illegible]

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature [illegible] Title Ex Off Date 9/16/53

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 83-38476

Form MF-104A
(April 1952)

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

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UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of July 1953 Docket No. DMEA 2768 Contract No. Idm. D-520
Operator's Name Mining Research Corporation Minerals Uranium
Address P. O. Box 356, Pierre, South Dakota (Field Office)

OPERATION	Unit	Costs This Month	Units This Month	Costs to Date	Units to Date	Unit Costs to Date	Authorized by Contract: Units	Authorized by Contract: Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts								
Winzes								
Drilling: Core	ft.	893.36	204	1,492.64	251	5.95		3.03
Chum Wagon	ft.	3,752.79	2,215	7,764.23	3,841	2.02		.87
Auger								
Stringer Authorized by contract:								
Trenches Core Drilling	ft.	618.12	204	760.53	251	3.03	1595 *	3.03
Test Pits Wagon Drilling	ft.	1,927.05	2,215	3,341.67	3,841	.87	14770 *	.87
Roads and Trails							3000 **	3.03
							30000 **	.87
Total Distributed Costs		2,545.17	204 2,215	4,102.20	* Phase 1 ** Phase 2			Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Total Costs		2,545.17		4,102.20				$2,873.00

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

Date August 12, 1953 Operator Mining Research Corporation

Per J. Sterling Livingston Title Vice President & 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.

Remarks: As explained in the previous report, the contractor is unable to accumulate costs accurately on a monthly basis. Accordingly, costs for both June and July are based in part on previously experienced costs. As soon as sufficient costs are accumulated to insure a more accurate report, the cost report will be revised. See attached summary.

(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.

U. S. GOVERNMENT PRINTING OFFICE 205676

MINING RESEARCH CORPORATION

COST SUMMARY - JULY, 1953
(DMEA Form MF-104A)

Costs Applicable to the Over-all Project

Labor and Supervision		Month of July
Field Supervisor and Geologist (C.W.L.) ½ @ $1,200	$300.00	
Engineer and Surveyor (H.O.D.) @ $400	400.00	
Analyst (T.H.) ¼ @ $385	96.25	
Service and Repairman (D.A.) ¼ @ $400	100.00	
Accounting (Allocated)	100.00	
Secretarial (Allocated)	100.00	
Total Labor and Supervision		$1,096.25

Operating Materials and Supplies

Note: Since an inventory of materials and supplies is not taken at the end of each month and statements for July on all deliveries have not yet been received, these figures are based in part on average monthly costs previously experienced. Approximately half of the company's efforts are devoted to DMEA exploration work; therefore, the following costs represent approximately 50% of the average monthly costs in the classifications which are applicable to exploration, unless otherwise indicated.

Gasolene, Oil, Fuel (50% of actual)	$618.15	
Freight-in	37.50	
Camp Supplies	100.00	
Office Supplies and Postage	62.50	
Surveying & Sampling Supplies (June-July average)	38.48	
Misc. Hardware and Supplies (10%)	30.00	
Truck and Automobile Expense	37.50	
Repairs to Automotive Equipment	35.50	
Laboratory Supplies	20.00	
Total Operating Materials and Supplies		979.63

Operating Equipment

Use Allowance per Application		148.50

Miscellaneous Expenses

Office Rent (50%)	$ 55.00	
Insurance (50%)	50.00	

			Month of July
Telephone and Telegraph		$ 75.00	
Pay Roll Taxes on Over-all Labor and Supervision (FICA .015; FUTA .027; SDUC .030; total .072)		78.93	
Workmen's Compensation (Average rate .95 per $100)		7.56	
Total Miscellaneous Expenses			$ 266.49
Total Costs Applicable to the Over-all Project			$2,490.87

Costs Applicable to Diamond Drilling

Note: Diamond drill operated only 10 days during July. The following allocated costs, therefore, represent only one-third of average monthly costs experienced for diamond drilling.

Labor			
Drill Operator (D.A.) 7 days @ $16.67	$116.69		
Drill Helper and Truck Driver (R.M.) 10 days @ $15.21	152.10		
Total Labor		$268.79	
Operating Materials and Supplies			
Diamond Drill Supplies (1/3 of 5-month average)		40.00	
Operating Equipment			
One-third of Allowance per Application		60.00	
Miscellaneous			
Pay Roll Taxes (.072 x 268.79)	$ 19.35		
Workmen's Compensation (2.62 per $100)	7.05		
Total Miscellaneous		26.40	
Total Costs Directly Applicable to Diamond Drilling			$ 395.19
Over-all Costs Allocable to Diamond Drilling Diamond drilling accounted for approximately 20% of the total days of drilling time. Accordingly, 20% of the over-all costs of DMEA work are allocated to diamond drilling (20% of $2,490.87)			498.17
Total Costs Applicable to Diamond Drilling			$ 893.36

Mining Research Corporation
Cost Summary - July, 1953

			Month of July
Costs Applicable to Wagon Drilling			
Labor			
Drill Operator (F.O.)	$357.74		
Drill Helper (R.L.)	334.95		
Total Labor		$692.69	
Operating Materials and Supplies			
Rock Drill Supplies (6-month average)		541.90	
Operating Equipment			
Use Allowance per Application		170.00	
Repair Parts and Expenses (July actual)		288.46	
Miscellaneous			
Pay Roll Taxes (.072 x 692.69)	$ 48.89		
Workmen's Compensation (2.62 per $100)	18.15		
Total Miscellaneous		67.04	
Total Costs Directly Applicable to Wagon Drilling			$1,760.09
Over-all Costs Allocable to Wagon Drilling Wagon drilling accounted for approximately 80% of the total days of drilling time. Accordingly, 80% of the over-all costs of DMEA work are allocated to wagon drilling (80% of $2,490.87)			1,992.70
Total Costs Applicable to Wagon Drilling			$3,752.79

MINING RESEARCH CORPORATION

Narrative Report

July, 1953

Exploratory drilling under DMEA contract No. 2768-Idm.E-520 was continued during July on the plan outlined in our initial report submitted last month. Holes #426 to #435 inclusive were drilled in Area III. The results were not encouraging. Since no mineralization near commercial grade was discovered in these holes, the wagon drill was moved back into Area I to fill in the pattern previously established in that area. During the month wagon drill holes #436 to #471 inclusive were drilled. During July, 46 wagon drill holes, totalling 2,215 feet, were drilled. In addition, 4 diamond drill holes, totalling 204 feet, were core drilled in Area I. The diamond drill holes were placed in sections of Area I where commercial grade mineralization had been discovered as a result of wagon drilling. All diamond drill cores contained some mineralization. A table summarizing the wagon drilling is attached.

Of the 50 holes drilled during July, 33 showed some uranium and 6 showed uranium of commercial grade, varying in thickness from 2 to 6 feet. A number of holes have not yet been probed because the probe had to be returned to the factory for repairs. Although scintillometer assays have been run on all drill cuttings, flourometric assays have not yet been completed.

The attached progress sketch indicates the holes which have been drilled to date. As a result of this drilling, two areas in Area I containing mineralization of commercial grade appear to have been discovered,

one on McKnight No. 3 at the northeast end of our drilling pattern, and the second on McKnight No. 2 near the southwest end of our drilling pattern. Holes #436, #446, #457, and #468 on the northeast end of the pattern were mineralized, as were holes #441, #442, #462, and #465 on the southwest end of the pattern. Detailed logs and assays of these holes will be submitted subsequently.

Although drilling costs are still excessive, operations during July showed considerable improvement over June. The per-foot cost of diamond drilling, which during June was $12.75, was decreased to $4.37 per foot during July, making the unit cost to date $5.95 per foot. Wagon drill costs, which were $2.46 per foot during June, were reduced to $1.70 per foot during July, making the unit cost to date $2.02 per foot. The high costs to date are largely due to (1) the need for overhaul of our wagon drill and (2) the caving ground in the drilling area. The 210 compressor was completely overhauled, and a new drill was installed during the month. The drill is now in excellent operating condition and high drilling rates are now being achieved. Accordingly, drilling costs in the future should be considerably lower. Caving ground, however, is expected to continue to interfere with drilling operations. Because of caving ground, two days were spent during the month recovering drill steel. It should be observed, however, that troublesome caving is often encountered in areas showing the best mineralization. Steel was stuck in hole #407 during June, for example, and the hole had to be abandoned. Hole #436 was drilled along side #407 during July, and the hole was found to contain 6 feet of mineralization.

Hole No.	Coordinates N.	Coordinates E.	Collar Elev.	Predominant Material	Ore Zones	Probe Picks	Shale	End
426	19487	19997	3976	White & Buff S.S.Grey Shale	None	None	53	58
427	19185	20245	3958	White & Buff S.S.Grey Sable	34-38	Caved 28	51	52
428	19576	20278	3959	Limonitic & White S.S.	37'	None	49	54
429	19218	20195	3962	Limonitic S.S. & Grey Shale	46 - 48	44 - 48	55	62
430	18963	20112	3968	Limonitic & White S.S.	None	None	60	62
431	18879	19920	3966	Buff to Brown S.S.	None	None	59	61
432	18796	19863	3961	Lt.Red to Brown S.S. & Shale	None	None	Bands 40	60
433	18990	20153	3965	Limonitic S.S.& Grey Shale	50	30 - 40	60	61
434	19046	20227	3959	Limonitic & Buff S.S.	52 - 56	34	51	54
435	20130	20361	3957	Grey & Buff S.S., Shale Bands	None	None to 34		38
436	21768	20861	4039	Buff & Yellow S.S.	30 to 50	31,35, 43-45	44-50 52	50
437	21716	20795	4038	Buff & Yellow S.S. & Grey Shale	17,28-36	Not probed	35-45 52	61
438	21768	20385	4047	Limonitic S.S.	20-24,28-38	Not probed	44-52 52	54
439	21698	20314	4042	Buff S.S.	26-34,41	Not probed	42	46
440	21797	20547	4048	Buff & Limonitic S.S.	24 to 46	24,33,38-41	44-50	50
441	21631	20301	4036	Buff S.S.	26 to 36	27,32,36,43	44	44
442	21626	20389	4042	Buff to Dark Brown S.S.	34-38	Not probed	45	46
443	21744	20465	4047	White & Buff S.S.	42?	Not probed	50	52
444	21856	20630	4050	White & Buff S.S.	22-28	Not probed	43	44
445	21913	20723	4050	Buff S.S.	26-34	Not probed	45	46
446	21857	20820	4045	Brown & White S.S.	22-50	22 to 50	49	50
447	21200	22736	4043	Brown S.S. Hole Caved				16
448	21773	20636	4043	Interbedded S.S.&Sh.	None	Not probed		34

Summary of Wagon Drilling in July: (continued)

7

Hole No.	Coordinates E.	Coordinates N.	Collar	Predominant Material	Ore Zones	Probe Holes	Shale	Ind
449	21716	20624	4042	Buff to Brown S.S.	None	Hole plugged	30	38
450	21660	20522	4041	Buff & White S.S.	None	Not probed	42-45 45	46
451	21824	20407	4053	Buff & White S.S.	34-40	Not probed	54	54
452	21881	20490	4055	Buff & White S.S.	29-34,36-46	Not probed	59	54
453	21933	20573	4056	Buff & White S.S.	None	Not probed	59	50
454	21924	20636	4057	Buff S.S.	None	Not probed	48	50
455	22051	20739	4057	Buff, White & Brown S.S.	None	Not probed	59	54
456	21968	20795	4051	Buff, White & Brown S.S.	23,25	Not probed	51	52
457	21939	20754	4051	Buff, White & Brown S.S.	18 to 26	Not probed	52	54
458	21803	20671	4050	Buff, White & Brown S.S.	26	Not probed	45	46
459	21826	20587	4049	Buff & White S.S.	None	Not probed	41	42
460	21779	20505	4048	Buff & White S.S.	34-38	Not probed	49	50
461	21713	20422	4045	Limonitic & Brown S.S.	None	Not probed	49	50
462	21547	20357	4032	Brown & Buff S.S.	26-34,41	27,30,53,42	41	42
463	21575	20350	4035	Limonitic S.S.	None	None to 91	42	44
464	21623	20436	4030	Limonitic S.S.	None	None	43	44
465	21631	20479	4039	Brown & Limonitic S.S.	36-40	37-39	47	42
466	21687	20542	4042	Limonitic & Buff S.S.	28-35	Not probed	45	46
467	21743	20605	4043	Drill Stuck		Not probed		16
468	21805	20651	4045	Buff S.S.	24-30,39	Not probed	47	40
469	21660	20702	4037	Buff S.S.	22-32	Not probed	33	36
470	21605	20620	4036	Buff S.S.	None	Not probed	30	40
471	21548	20536	4034	Limonitic S.S.	32-43	Not probed	42	46

2215

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Department of the Interior
Defense Minerals Administration
RECEIVED
JUL 31 1953

~~WASHINGTON 25, D.C.~~
Region V
2908 Colfax Avenue South
Minneapolis 8, Minnesota

July 29, 1953

Memorandum

To: Operating Committee, Defense Minerals Exploration Administration, Interior Building, Washington 25, D. C.

From: Executive Officer, Field Team, Region V

Subject: Operator's Monthly Report and Voucher for June 1953
Docket DMA-2768, Contract Idm 8-520, Mining Research Corp.

Here are two copies of the subject report, as processed for payment, for your files.

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

Attachments - 2

cc: Dutton
Binyon
Files
Day Files
Region V

Form MF-1-4 (Rev.)
(April 1952)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

RECEIVED

2

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of June, 1953 Docket No. DMEA 2769 Contract No. DMA 8-520
Operator's Name Mining Research Corporation Minerals Uranium
Address P. O. Box 356, Edgemont, South Dakota, (Field Office)
Contract Amount, $52,073.00 Government Participation: 90 % Amount, $47,505.70

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) ~~Independent~~ Short Form Contracts:						
Drilling Core 67'0 03.03	142.41	0	142.41	142.41	-	142.41
Bulldozing						
Crosscutting						
~~Drilling~~ 1626' 00 .07						
Wagon Drilling	1414.62	0	1414.62	1414.62	-	1414.62
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	1,557.03		1,557.03	1,557.03	-	1,557.05

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

Date July 7, 1953 *Payee Mining Research Corp.

Per Clyde W. Livingston Title President

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

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

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

$ 1401.33

Signature L. A. Hill
(Authorized Certifying Officer)

Date JUL 27 1953 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. Idm E-520 in accordance with the terms of the contract.

Signature E. Bunyon Title Mining Engineer Date July 16, 1953

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature C. B. Needham Title Ex Off Date 7/20/53

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

U. S. GOVERNMENT PRINTING OFFICE 205675

Form MF-104A
(April 1952)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

2

Month of June 1953 Docket No. DMEA 2768 Contract No. Idm 6-520
Operator's Name Mining Research Corporation Minerals Uranium
Address P. O. Box 356, Edgemont, South Dakota (Field Office)

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts								
Winzes								
Drilling: Core	ft	599.28	47	599.28	47	12.75		$3.03
Wagon	ft	4,011.44	1626	4,011.44	1626	2.467		$0.87
Auger								
Core drilling	ft	142.41	47	142.41	47	3.03	1595*	3.03
Wagon	ft	1414.62	1626	1,414.62	1626	.87	14770*	.87
							3000**	3.03
Test Pits							30000 *	387
Roads and Trails								
Total Distributed Costs		1557.03	47 1626	1557.03				Total Costs Authorized by Contract
Operating Equipment Purchased		-	-					-
Initial Rehabilitation and Repairs		-	-					-
New Buildings, Improvements, etc.		-	-					-
Total Costs		1557.03	1557.03	1557.03				52,873.00

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

Date July 3, 1953 Operator MINING RESEARCH CORPORATION

Per J. Sterling Livingston Title 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.

(Instructions on reverse)

REMARKS: This report is the first submitted by the contractor. Since the contractor is unable to accumulate all costs accurately on a monthly basis, this report is based in part on average monthly costs previously experienced. Necessary adjustments will be made in subsequent reports. See attached summary.

*Phase 1 **Phase 2

(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.

U. S. GOVERNMENT PRINTING OFFICE 205676

MINING RESEARCH CORPORATION

COST SUMMARY - JUNE, 1953*
(DMEA Form MP-10LA)

Costs Applicable to the Over-all Project

		Month of June
Labor and Supervision		
Field Supervisor and Geologist (C.W.L.) ½ @ $1,200	$600.00	
Engineer and Surveyor (H.O.D.) @ $400	400.00	
Sampler and Helper (G.J.) ½ @ $320	80.00	
Analyst (T.M.) ¼ @ $385	96.25	
Service and Repairman (D.A.) ½ @ $400	100.00	
Accounting (Allocated)	100.00	
Secretarial (Allocated)	100.00	
Total Labor and Supervision		$1,476.25
Operating Materials and Supplies		
Note: Since an inventory of materials and supplies was not taken at the end of May and statements for June on all deliveries have not yet been received, these figures are based on average monthly costs previously experienced. Approximately half of the company's efforts are devoted to DMEA exploration work; therefore, the following costs represent approximately 50% of the average monthly costs in the classifications which are applicable to exploration, unless otherwise indicated.		
Gasoline, Oil, Fuel	$411.00	
Freight-in	37.50	
Camp Supplies	100.00	
Office Supplies and Postage	62.50	
Surveying and Sampling Supplies (100%)	30.00	
Misc. Hardware and Supplies (25%)	75.00	
Truck and Automobile Expense	37.50	
Repairs to Automotive Equipment	35.50	
Laboratory Supplies	20.00	
Total Operating Materials and Supplies		809.00
Operating Equipment		
Use Allowances per Application		148.50

*Although exploratory drilling was started on May 27, 1953, drilling was not performed during a three-day period in June. Since the cost of the four days of drilling in May more than offset the three days in which work was not performed during June, this summary substantially reflects the accumulated costs as of June 30, 1953.

			Month of June
Miscellaneous Expenses			
Office Rent (50%)		$ 55.00	
Insurance (50%)		50.00	
Telephone and Telegraph		75.00	
Pay Roll Taxes on Over-all Labor and Supervision (FICA .015; FUTA .027; SDUC .030; total, .072)		106.29	
Workmen's Compensation (Average rate, .95 per $100)		8.22	
Total Miscellaneous Expenses			$ 294.51
Total Costs Applicable to the Over-all Project			$2,728.26

Costs Applicable to Diamond Drilling

Note: Diamond drill operated only 4 days during June because of various operating problems. The following costs, therefore, represent only one-sixth of average monthly costs experienced for diamond drilling.

Labor			
Drill Operator (D.A.) 4 days @ $16.67	$66.68		
Drill Helper and Truck Driver (R.M.) 4 days @ $15.21	60.84		
Total Labor		$127.52	
Operating Materials and Supplies			
Diamond Drill Supplies (1/6 of 4-month average)		20.00	
Operating Equipment			
One-sixth of Allowance per Application		30.00	
Miscellaneous			
Pay Roll Taxes (.072 x 127.52)	$ 9.18		
Workmen's Compensation (2.62 per $100)	3.34		
Total Miscellaneous		12.52	
Total Costs Directly Applicable to Diamond Drilling			$ 190.04

Over-all Costs Allocable to Diamond Drilling

Diamond drilling accounted for approximately 15% of the total days of drilling time. Accordingly, 15% of the over-all costs of DMRA work are allocated to diamond drilling (15% of $2,728.26) 409.24

Total Costs Applicable to Diamond Drilling $ 599.28

Costs Applicable to Wagon Drilling			Month of June
Labor			
Drill Operator (F.G.)	$305.25		
Drill Helper (R.L.)	290.01		
Total Labor		$595.26	
Operating Materials and Supplies			
Rock Drill Supplies (4-month average)		669.75	
Operating Equipment			
Use Allowance per Application		170.00	
Repair Parts		198.97	
Miscellaneous			
Pay Roll Taxes (.072 x 595.26)	$ 42.85		
Workmen's Compensation (2.62 per $100)	15.59		
Total Miscellaneous		58.44	
Total Costs Directly Applicable to Wagon Drilling			$1,692.42
Over-all Costs Allocable to Wagon Drilling			
Wagon drilling accounted for approximately 85% of the total days of drilling time. Accordingly, 85% of the over-all costs of IMEA work are allocated to wagon drilling (85% of $2,728.26)			2,319.02
Total Costs Applicable to Wagon Drilling			$4,011.44

NARRATIVE

Exploration work under DMEA Contract No. 2768 was begun on May 27, 1953, with Hole #390, using a Gardner-Denver Model 70 Wagon Drill and 210 Compressor mounted on an Army "Half-Track" truck.

Location of holes was on a skip-pattern based upon the results of drilling over 200 holes on the property adjoining on the North, the area covered by this contract. The immediate objective is to determine the limits of the ore bearing zone or zones, and to get information as to structure. When this has been accomplished, it is planned to fill in the 50 ft x 100 ft pattern in the spots found most favorable.

Previous work suggests that ore zones exist striking approximately S35°E. To check this supposition the drilling was laid out in parallel lines at right angles to that strike. The first of those lines was started near the northern boundary of the contract area and 300 ft southeasterly from a line of holes previously drilled, and run westerly 600 ft. An attempt was made to get each hole down to the dark grey or black shale bed from 40 to 60 ft below the surface, which seems to form a basement for the ore deposits in the vicinity.

After getting 600 ft West on the first line, wet ground made drilling difficult so the drill was moved to a second line, parallel to the first and 300 ft Southerly from it; and later to a third parallel line 300 ft Southerly from the second.

Results on the third line indicated little mineralization there, so the drill was moved to a line 1100 ft Southerly and started near the West rim of Deadhorse Canyon at a point below which there is a showing of carnotite and radiometric anamoly extending 50 yards or so along the wall.

Four holes on this line brought the drill to the East side of a branch canyon, and it was then moved to the West side and continual work along the same line.

Holes are started with a 3" bit run down about 3 ft; next a short section of 2½" steel pipe, stamped with the hole number, is set in the hole to prevent surface caving and to provide a connection to the dust collector. Then drilling is resumed with a 2 3/8" cross-bit having Tungsten Carbide inserts. Holes are drilled dry and the cuttings caught in a steel collector. The drill is stopped every 2 ft of hole and the cuttings are put in a sack and labelled. Later each sack is checked before a scintillometer and those indicating a possible uranium content of .05% U_3O_8 ore sent in to the laboratory for flouronetric assay. When finished, the holes are probed with a Geiger counter as a check. The driller's log is copied on an office form showing also the Geiger log and results of assays, when made. Pulps assaying .10% or more are stored for future reference.

When a crew became available a Joy No. 7 Diamond Drill with AX bit was used to check the possible extension in the line of strike of our ore zone found in Wagon Drill Hole #405. This hole designated DDH#10 was located 100 ft N 34°-15' W from #405 with collar at Elev. 4044.7. Caving trouble developed and the hole had to be cased to a depth of 19 ft. The basal shale was reached at a depth of 46 ft. The material penetrated was medium grained, yellow, clay cemented sandstone, with carnotite visible only in a 2" seam from 44'-7" to 44'-9". The probe gave no response in this hole.

Drilling results in June were unsatisfactory, both in amount of ore shown up and particularly in the costs. The latter resulted largely from

overheating of the 210 Air Compressor, with much down time and servicing labor, and the use of a second compressor in order to enable any drilling to be done at all. Further wagon drilling will be suspended until the Gardner-Denver people can overhaul that compressor.

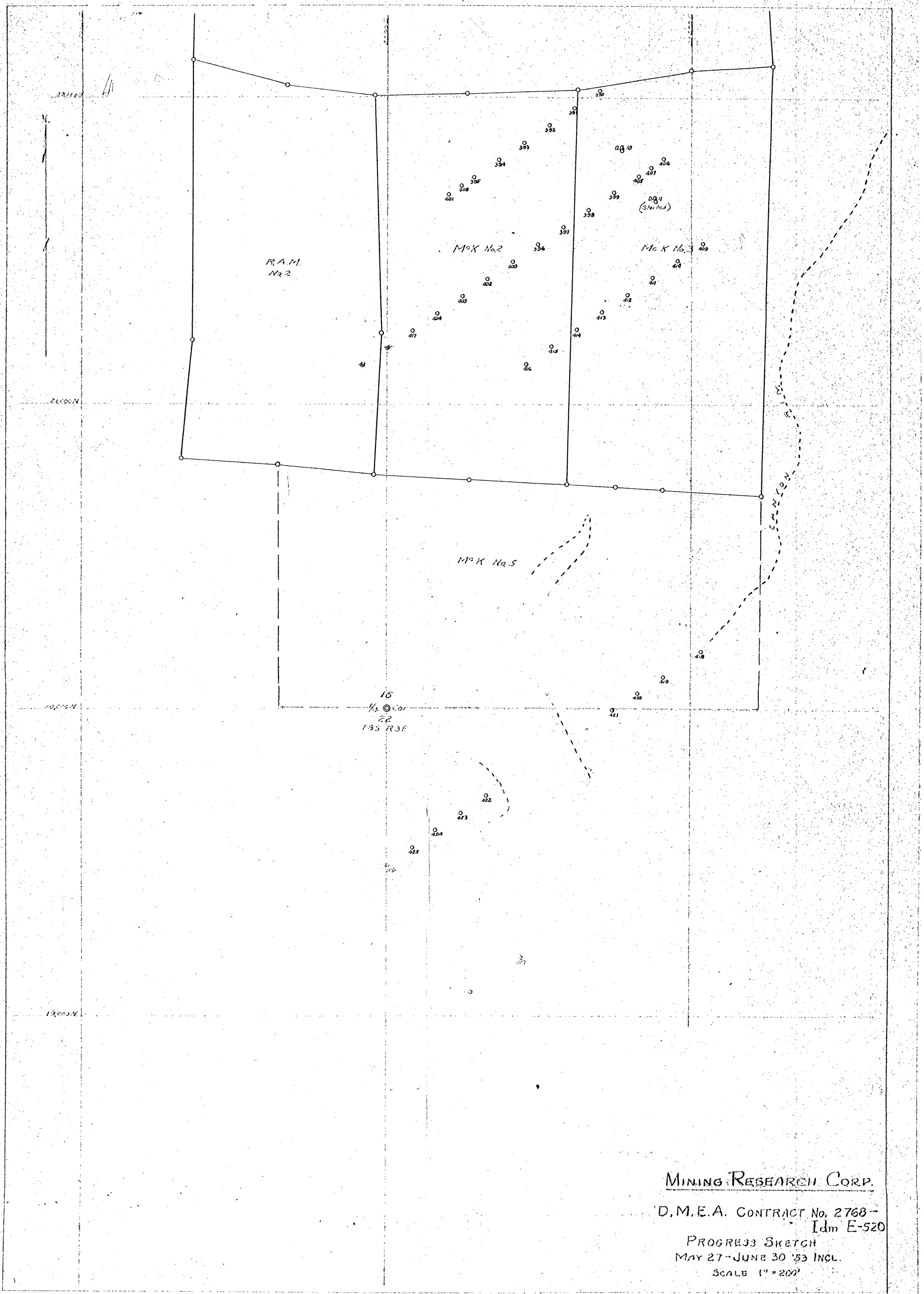
The results of the water drilling are summarized below:

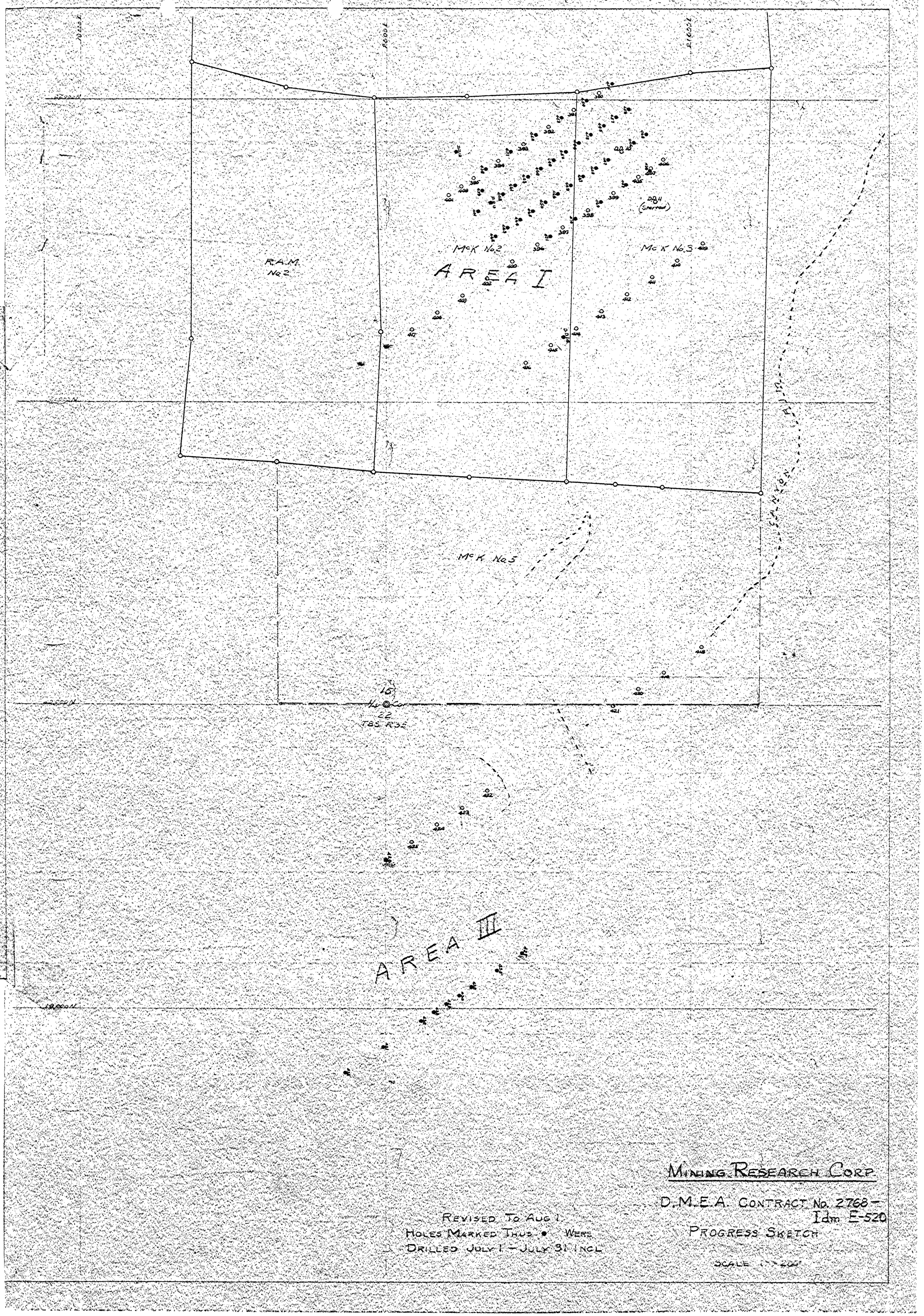
Hole No.	Coordinates N.	Coordinates E.	Collar Elev.	Predominant Material	Ore Zones	Probe Kicks	Shale	Int
390	22522	20608	4956	Lt.Brown & Buff S.S.			55	56
391	22546	20614	57	Lt.Brown & Buff S.S.			53	54
392	21919	20521	56	Buff & White S.S.		49'	49	50
393	22159	20440	56	White S.S.		Slight 35'-50'	52	56
394	22796	20566	50	White S.S. (Shiny)	(20'-40')?	Slight 30'-50'	50	54
395	22450	20415	46	White S.S. & Grey Shale	26'-32'	30'-36'	46	52
396	22520	20405	32	Abandoned at 36' Steel stuck				36
397	22577	20576	35	Shiny S.S.	(20'-30')?	26'-34'	42	44
398	22632	20620	37	White S.S.		Slight 35'-55'	38	40
399	22650	20744	37	White S.S.	(22'-24')?	20'-25'	37	38
400	22444	20424	20	Lt.Brown & White S.S. & Shale		Slight 40'	40	44
401	22668	20322	30	White to Black S.S.		Slight 37'	37	40
402	22497	20320	26	Lt.Brown & White S.S.		Slight 41'	41	44
403	22570	20218	29	Lt.Brown & Buff S.S.	(30'-40')?	30'-39'	45	48
404	22294	20424	36	White & Buff S.S.			55	58
405	22744	20325	39	White & Buff & Yel. Brown S.S.	26'-34'	34'-42'	45?	44
406	22500	20326	39	White & Buff S.S.				46
407	22771	20266	39	Abandoned at 10' Steel stuck				18
408	22751	20243	41	Grey & Buff S.S.		Slight 29'	41	42
409	22524	20039	35	Abandoned at 34' Steel stuck				44
410	22460	20254	32	Buff S.S.		Slight 40'	49'	52
411	21412	20370	29	Yellow & White S.S.			44	46
412	21956	20769	25	Lt.Brown & Buff S.S.			35	40
413	21899	20735	19	Lt.Brown S.S. (Gravel)			?	38
414	21243	20523	15	Shiny S.S. Lt.Brown			34	38

The results of the wagon drilling are summarized below: (continued)

Hole No.	Coordinates N.	Coordinates E.	Collar Elev.	Predominant Material	Ore Zones	Probe Picks	Shale	End
415	21106	20541	24	Limey White S.S.		Slight 25'-28'	39	41
416	21130	20450	22	Limey White S.S.			45	48
417	21230	20082	4040	Interbedded S.S. & Shale				58
418	20192	21043		Buff & White S.S.		Slight 44'	48	50
419	20106	20900	4003	White & Limey S.S.			53	60
420	20050	20525	4003	White & Limey S.S.			57	60
421	19994	20742	4000	White & Limey S.S.			59	60
422	19713	20328		White to Yellowish S.S. (Caving)				25
423	19656	20245		Grey Shale & White S.S.			40	46
424	19600	20163		Interbedded Shale & S.S.			48	54
425	19544	20080		Limonitic S.S.			48	52

1626


N.
R.A.M.
No. 2
McK No. 2
McK No. 3
McK No. 5
CANYON
16
1/4 Cor
22
T85 R3E
MINING RESEARCH CORP.
D.M.E.A. CONTRACT No. 2768-
Idm E-520
PROGRESS SKETCH
MAY 27-JUNE 30 '53 INCL.
SCALE 1" = 200'



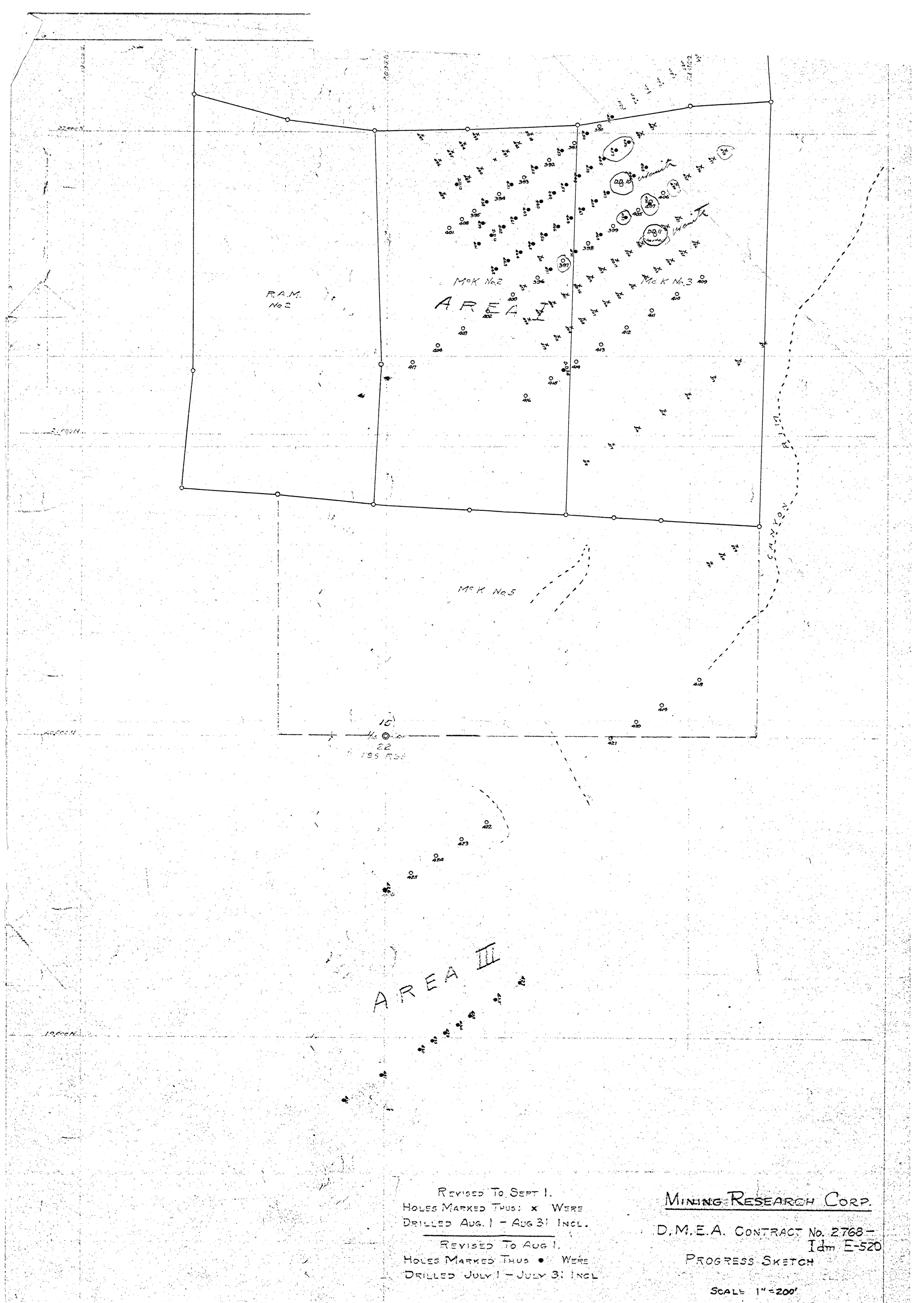
MINING RESEARCH CORP.

D.M.E.A. CONTRACT No. 2768 – Idm E-520

PROGRESS SKETCH

REVISED TO AUG 1.
HOLES MARKED THUS • WERE DRILLED JULY 1 – JULY 31 INCL

SCALE 1" = 200'



Revised To Sept 1.
Holes Marked Thus: x Were
Drilled Aug. 1 – Aug 31 Incl.

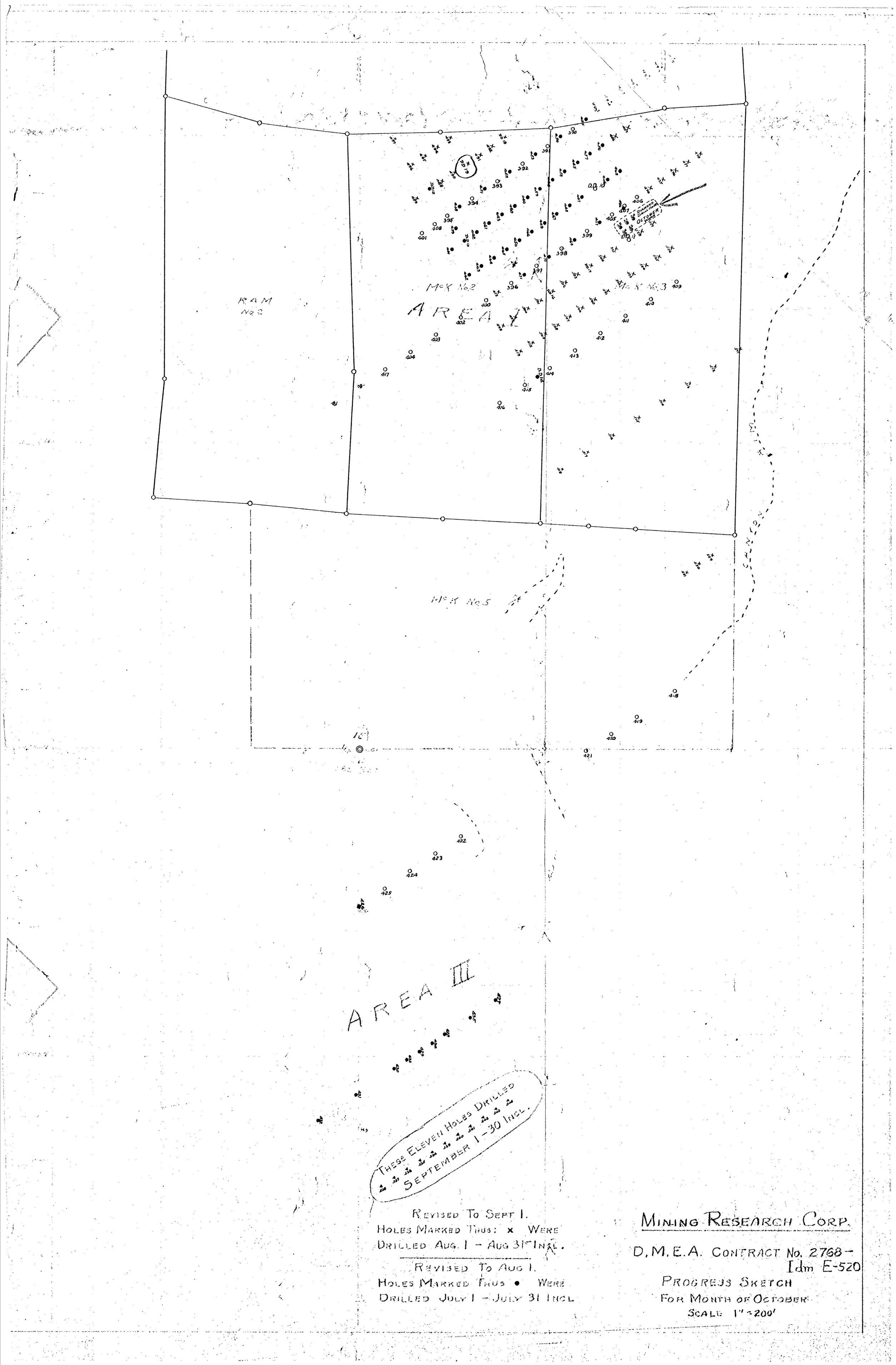
Revised To Aug 1.
Holes Marked Thus • Were
Drilled July 1 – July 31 Incl

Mining Research Corp.

D.M.E.A. Contract No. 2768–
Idm E-520

Progress Sketch

Scale 1" = 200'



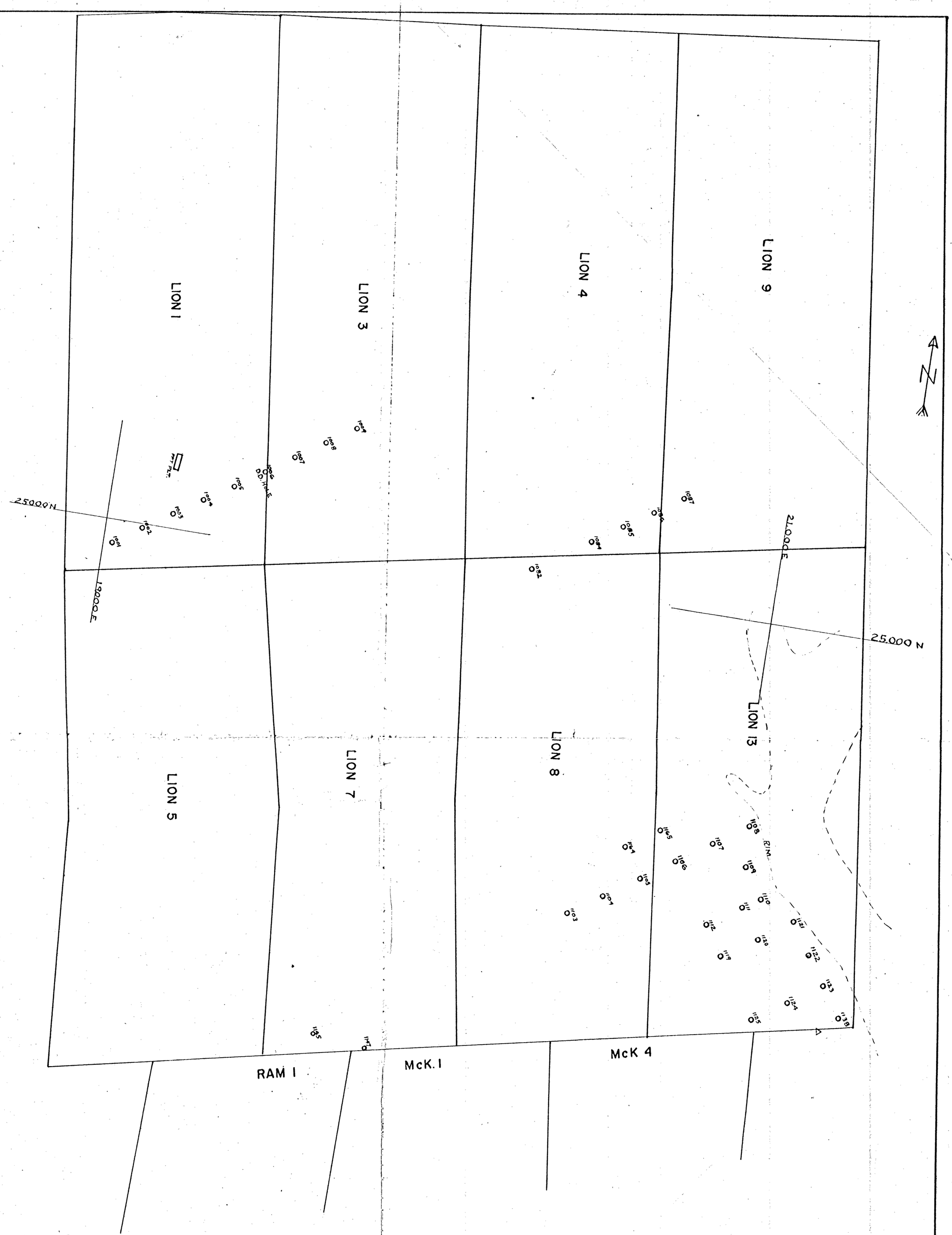
REVISED TO SEPT 1.
HOLES MARKED THUS: x WERE DRILLED AUG. 1 – AUG 31ST INCL.

REVISED TO AUG 1.
HOLES MARKED THUS • WERE DRILLED JULY 1 – JULY 31 INCL

MINING RESEARCH CORP.

D.M.E.A. CONTRACT No. 2768-Idm E-520

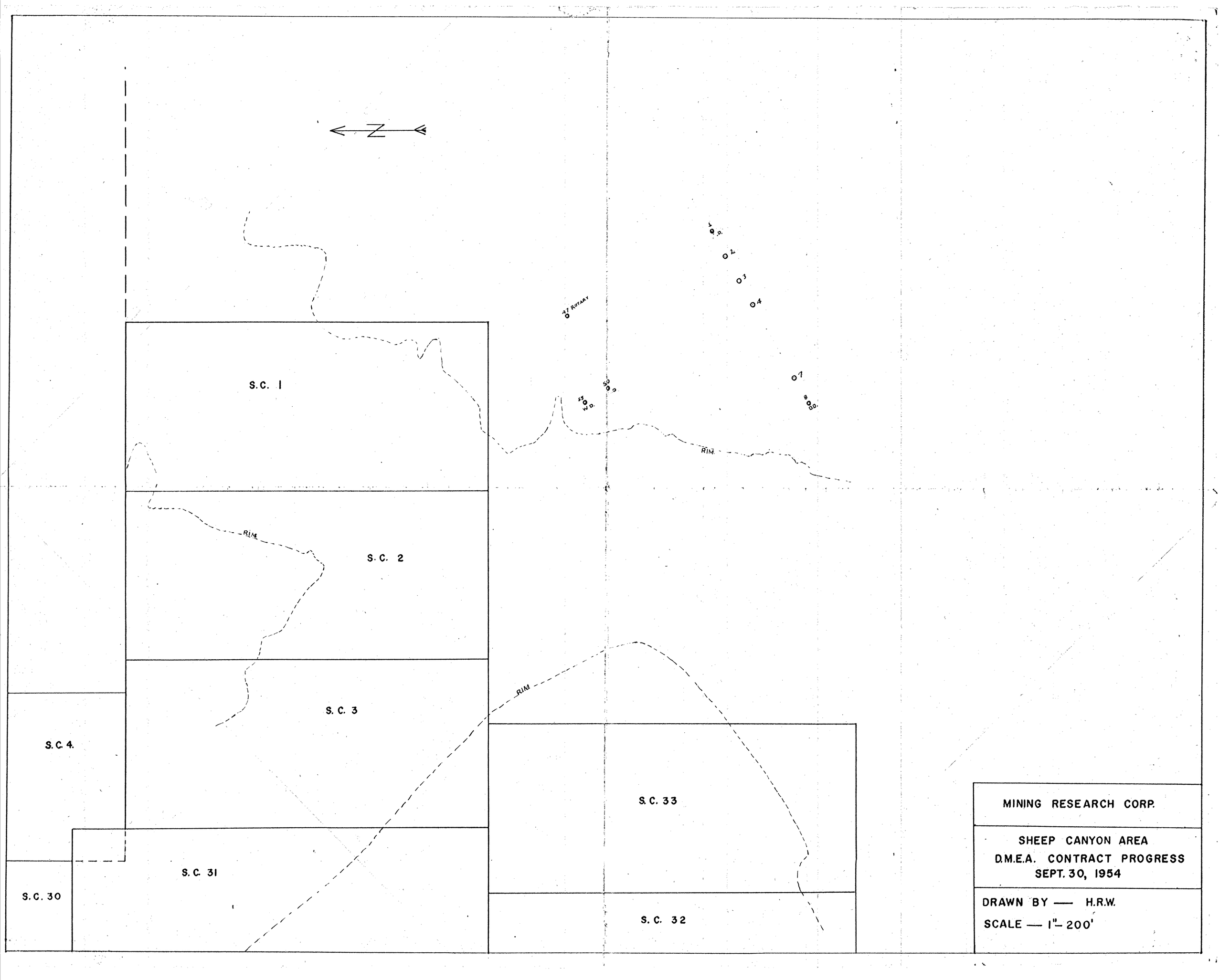
PROGRESS SKETCH
FOR MONTH OF OCTOBER
SCALE 1" = 200'

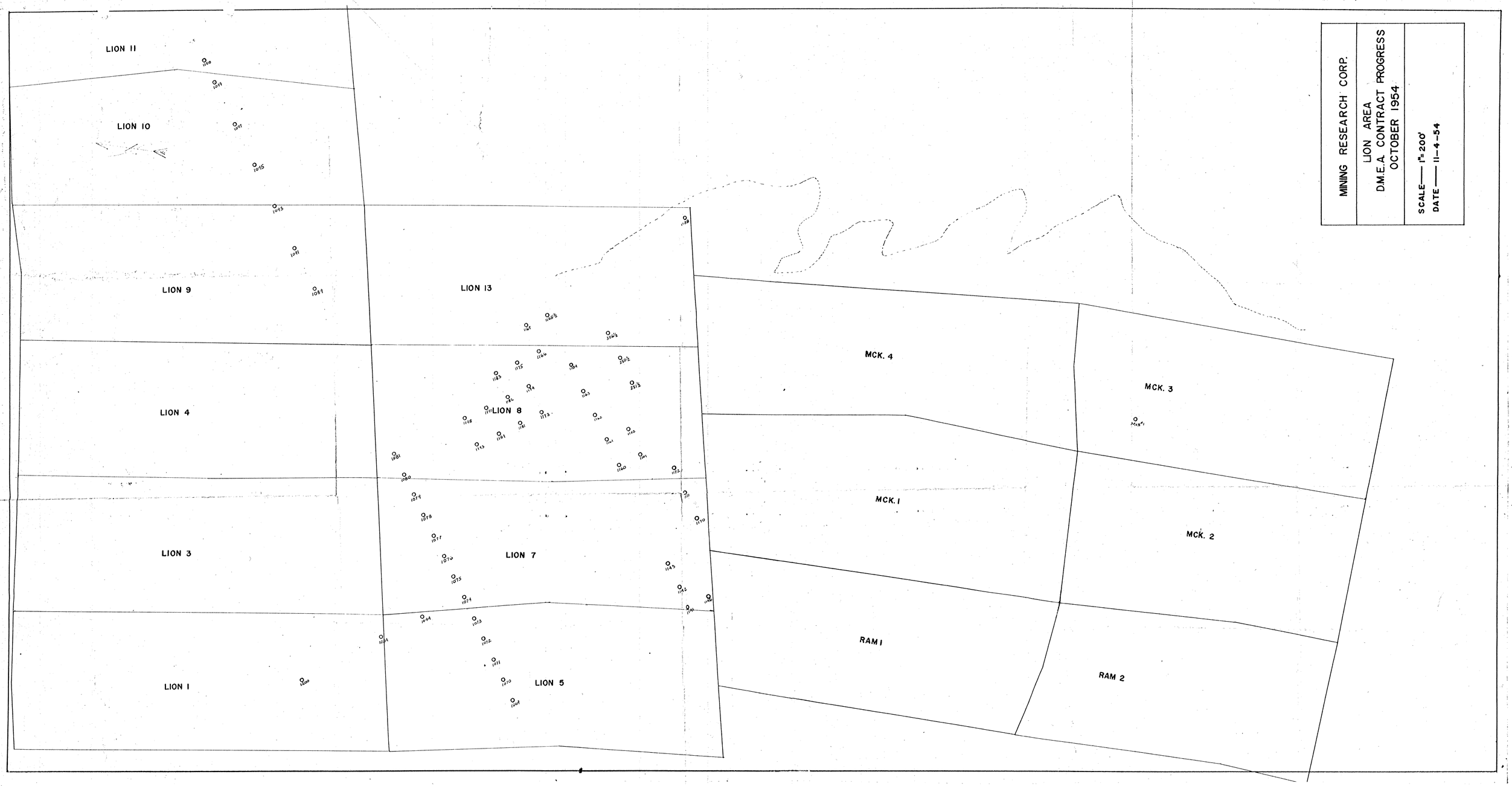


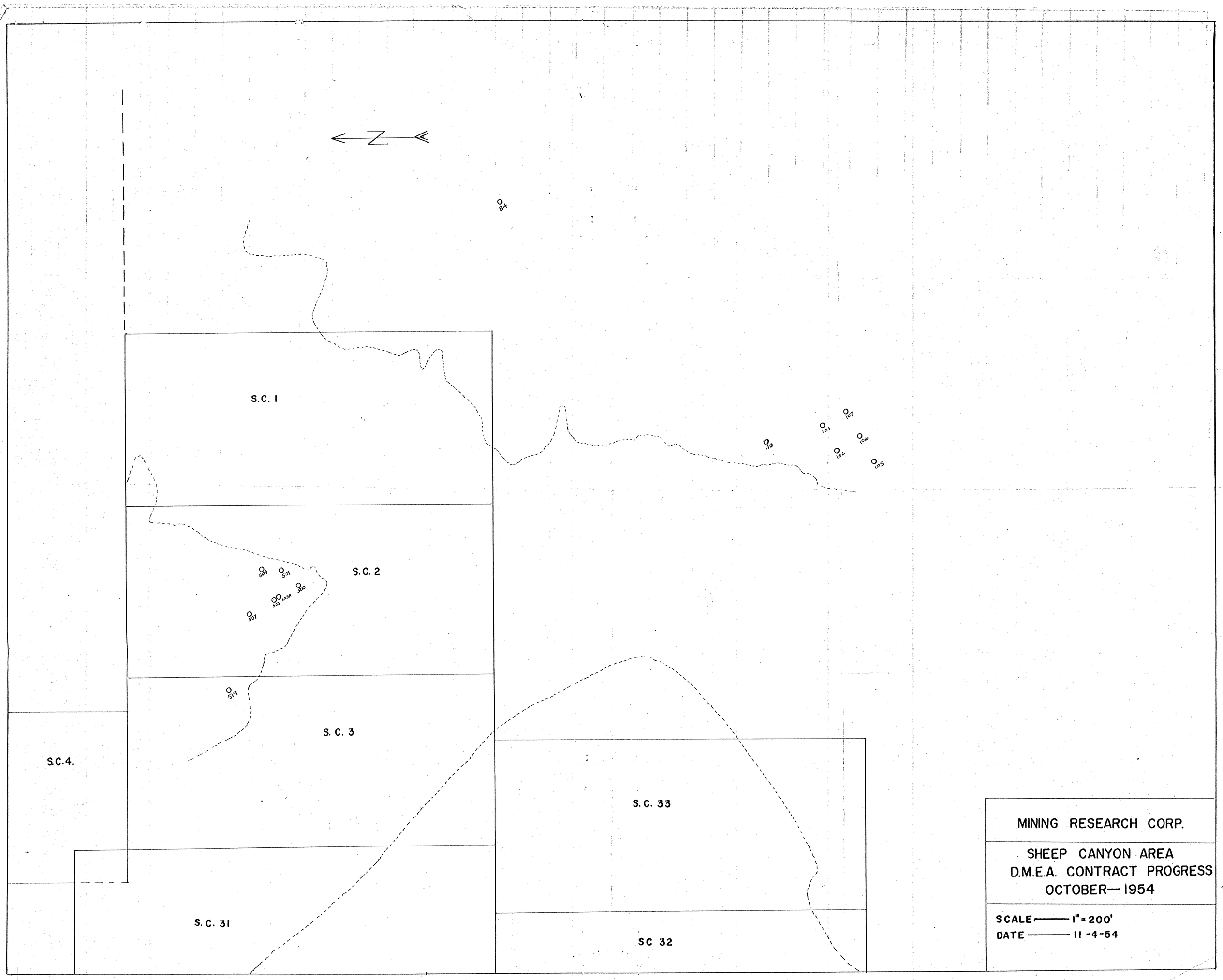
MINING RESEARCH CORP.

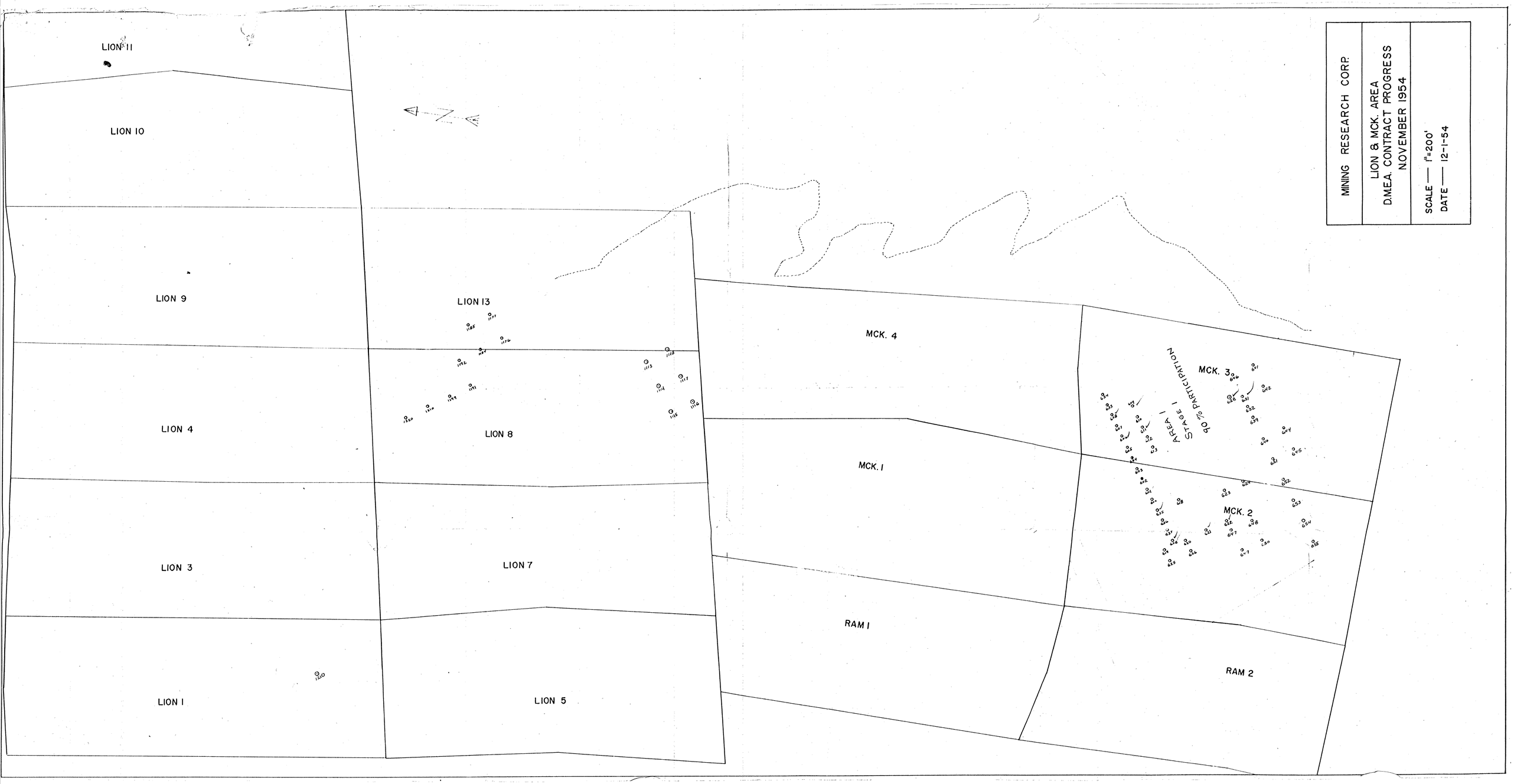
LION AREA
D.M.E.A. CONTRACT PROGRESS
SEPT. 1954

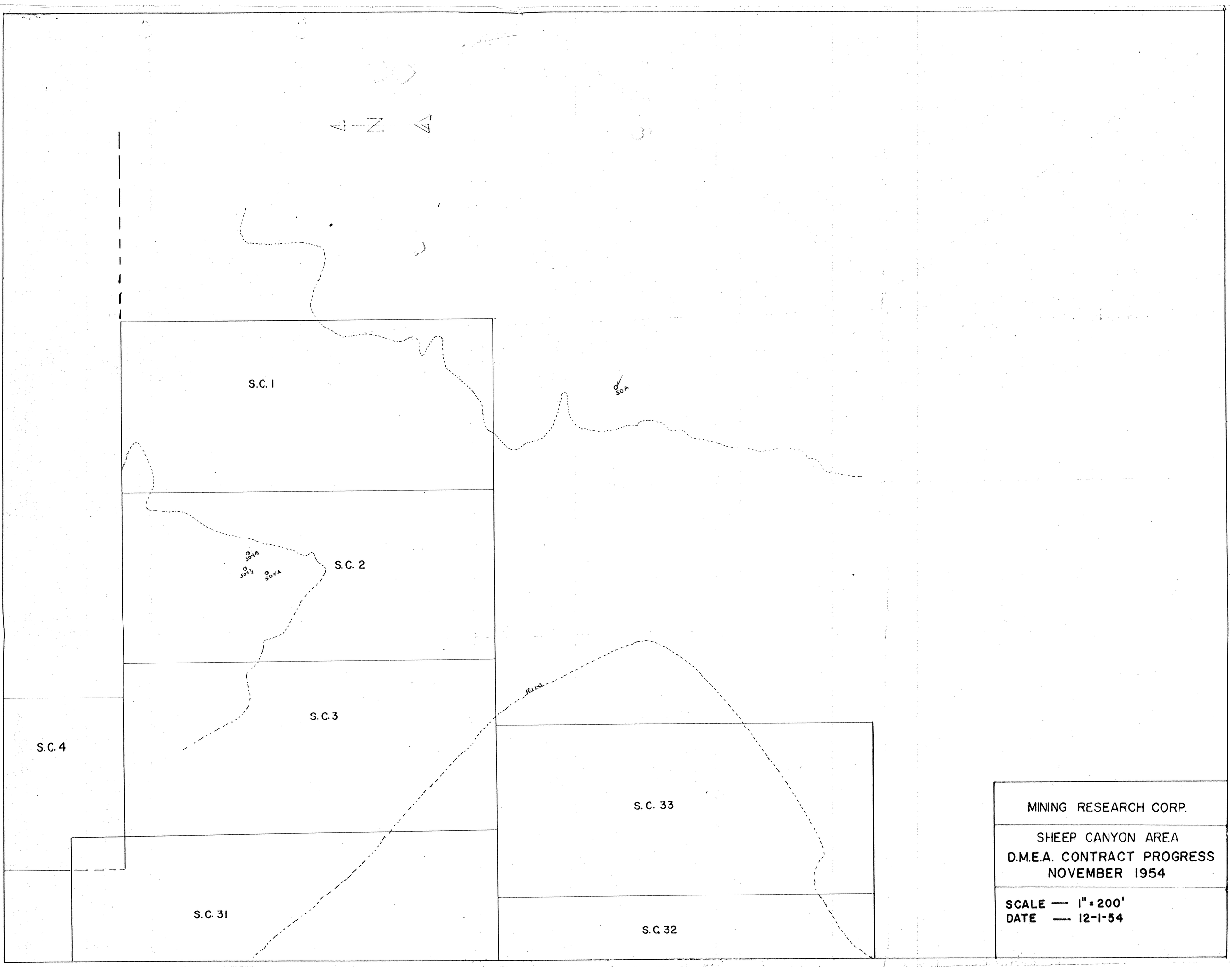
BY — H.R.W.
DATE — SEPT. 30, 1954
SCALE — 1" – 200'

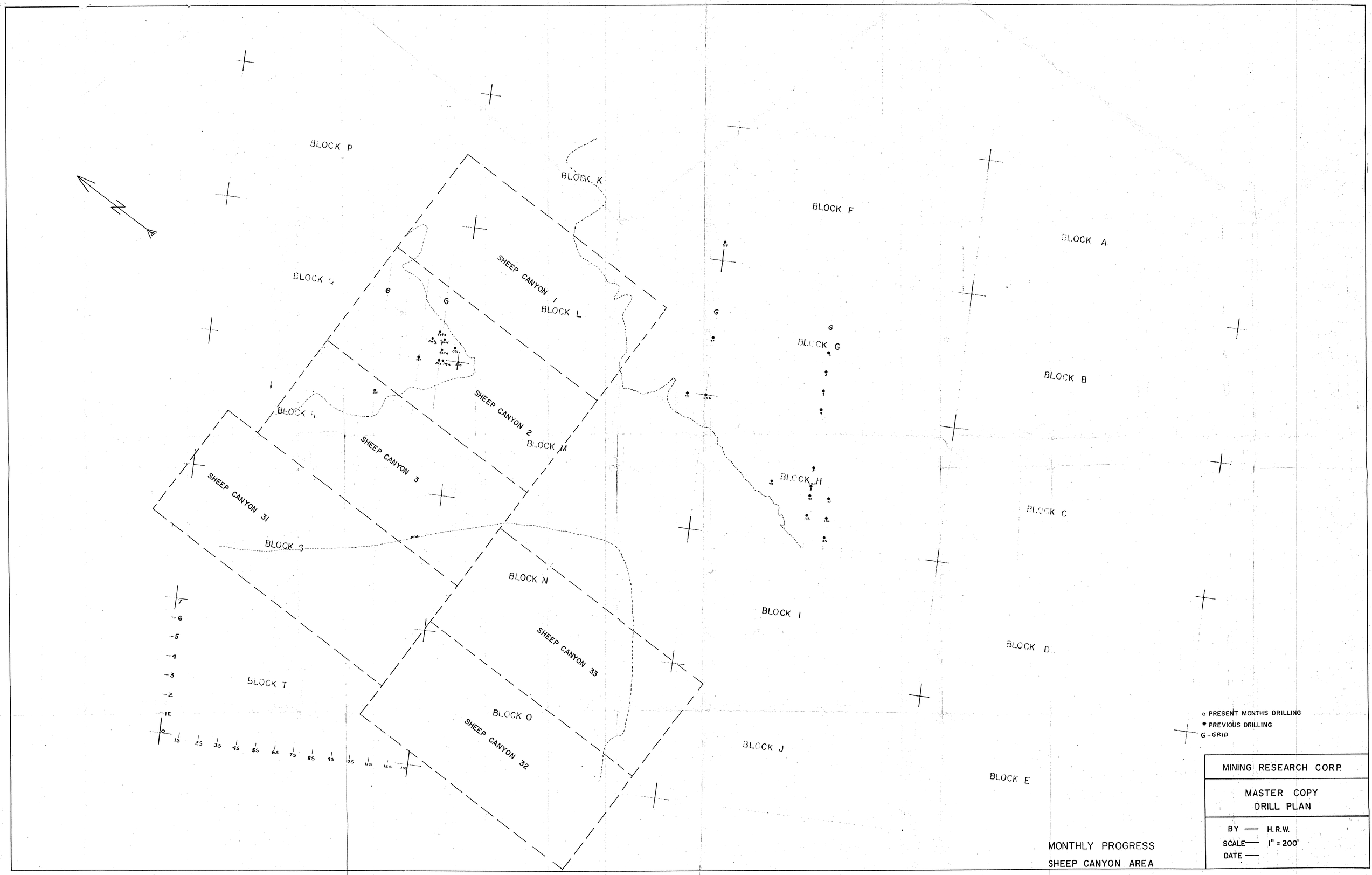

N
S.C. 1
S. C. 2
S. C. 3
S. C. 4.
S. C. 30
S. C. 31
S. C. 32
S. C. 33
RIM
RIM
RIM
47 ROTARY
55 W.D.
50 D.D.
1 D.D.
2
3
4
7
8 D.D.
MINING RESEARCH CORP.
SHEEP CANYON AREA
D.M.E.A. CONTRACT PROGRESS
SEPT. 30, 1954
DRAWN BY — H.R.W.
SCALE — 1"- 200'


LION 11
LION 10
LION 9
LION 13
LION 4
LION 8
LION 3
LION 7
LION 1
LION 5
MCK. 4
MCK. 3
MCK. 1
MCK. 2
RAM 1
RAM 2
MINING RESEARCH CORP.
LION AREA
D.M.E.A. CONTRACT PROGRESS
OCTOBER 1954
SCALE—— 1"= 200'
DATE —— 11-4-54

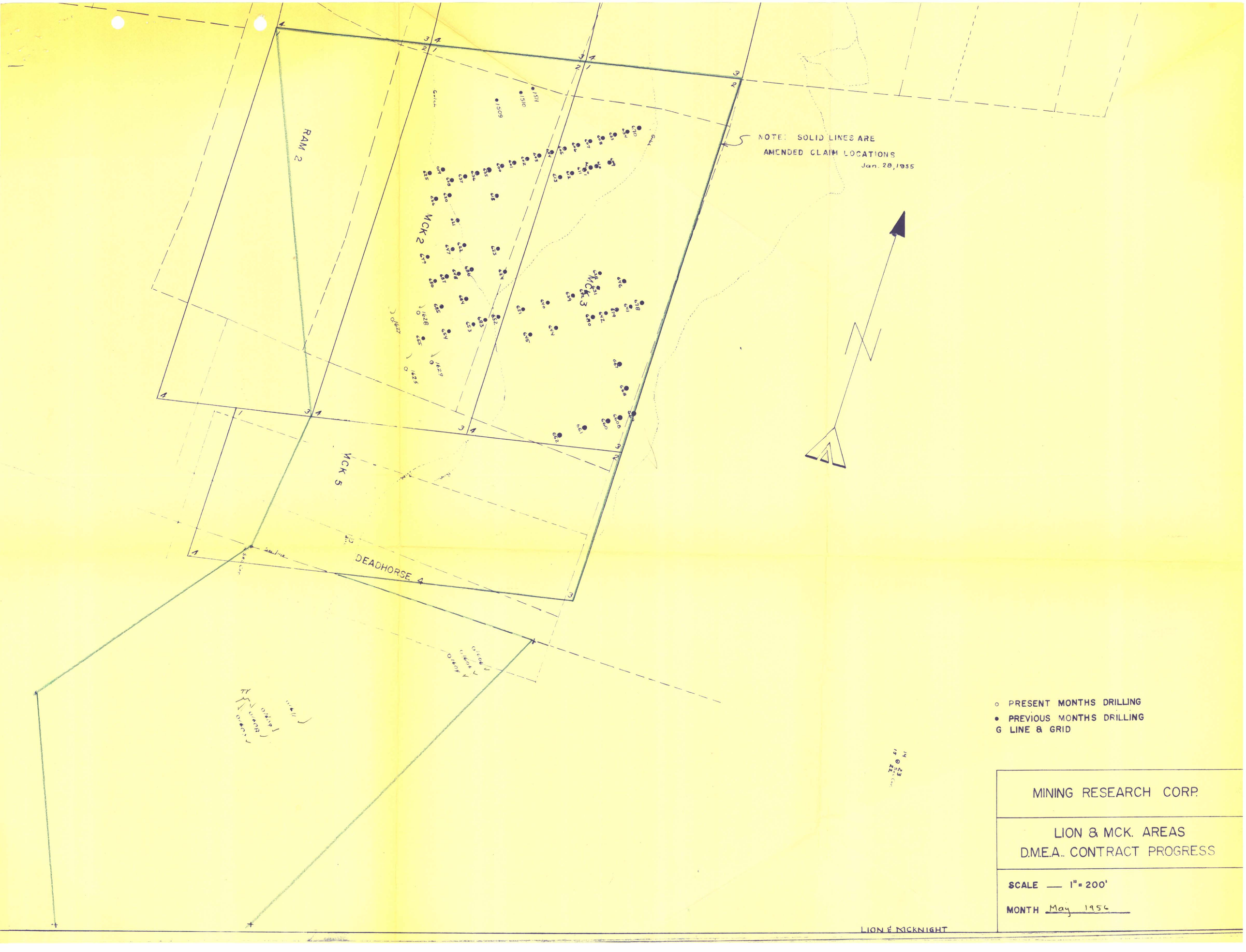

N
S.C. 1
S.C. 2
S.C. 3
S.C.4.
S. C. 31
S. C. 33
SC 32
MINING RESEARCH CORP.
SHEEP CANYON AREA
D.M.E.A. CONTRACT PROGRESS
OCTOBER— 1954
SCALE 1" = 200'
DATE 11-4-54


LION 11
LION 10
LION 9
LION 4
LION 3
LION 1
LION 13
LION 8
LION 7
LION 5
MCK. 4
MCK. 1
RAM 1
MCK. 3
MCK. 2
RAM 2
AREA 1
STAGE
90% PARTICIPATION
MINING RESEARCH CORP.
LION & MCK. AREA
D.M.E.A. CONTRACT PROGRESS
NOVEMBER 1954
SCALE — 1"=200'
DATE — 12-1-54


N
S.C. I
S.C. 2
S.C. 3
S.C. 4
S.C. 31
S.C. 32
S.C. 33
50A
50B
50½
50YA
RIM
MINING RESEARCH CORP.
SHEEP CANYON AREA
D.M.E.A. CONTRACT PROGRESS
NOVEMBER 1954
SCALE — 1" = 200'
DATE — 12-1-54


BLOCK P
BLOCK K
BLOCK F
BLOCK A
BLOCK L
SHEEP CANYON 1
BLOCK G
BLOCK B
SHEEP CANYON 2
BLOCK M
SHEEP CANYON 3
BLOCK H
BLOCK C
SHEEP CANYON 31
BLOCK S
BLOCK N
BLOCK I
SHEEP CANYON 33
BLOCK D
BLOCK T
BLOCK O
SHEEP CANYON 32
BLOCK J
BLOCK E
o PRESENT MONTHS DRILLING
• PREVIOUS DRILLING
G - GRID
MINING RESEARCH CORP.
MASTER COPY
DRILL PLAN
BY — H.R.W.
SCALE — 1" = 200'
DATE —
MONTHLY PROGRESS
SHEEP CANYON AREA

LAMB 1
LION 17
LION 2
LION 1
LION 3
LION 4
LION 9
LION 10
LION 11
LAMB 2
LION 18
LION 6
LION 5
LION 7
LION 8
LION 13
LION 14
LION 15
FREEZEOUT 2
FREEZEOUT 1
RAM 1
MCK 1
MCK 4
DEADHORSE 1
DEADHORSE 2
DEADHORSE 3
RAM 2
MCK 2
MCK 3
MCK 5
DEADHORSE 4
PRESENT MONTHS DRILLING
PREVIOUS MONTHS DRILLING
G LINE & GRID
MINING RESEARCH CORP.
LION & MCK. AREAS
D.M.E.A. CONTRACT PROGRESS
SCALE — 1" = 200'
MONTH
LION & MCKNIGHT


NOTE: SOLID LINES ARE
AMENDED CLAIM LOCATIONS
Jan. 28, 1955
RAM 2
MCK 2
MCK 3
MCK 5
DEADHORSE 4
LION & MCKNIGHT
o PRESENT MONTHS DRILLING
• PREVIOUS MONTHS DRILLING
G LINE & GRID
MINING RESEARCH CORP.
LION & MCK. AREAS
D.M.E.A.. CONTRACT PROGRESS
SCALE — 1" = 200'
MONTH May 1956