UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

OFFICIAL DOCKET FILE

Terminated (or cancelled) without certification. DMEA No. 2299

This is the official contract file containing all official records of the project. Duplicate material has been removed. The records contained in the files are checked and are arranged in this manner:

Left Side

- ✓ Certificate of Audit (Final).
- Interim Audit(s).
- Report of Review.
- Termination Notice or Agreement.
- Recision Notice.
- Assignment of Contract.
- ✓ Contract Amendments (latest on top).
- ✓ Contract with all exhibits and annexes. See maps in envelopes Marked Nos 1 thru 6
- Owner's Consent to Lien.
- ✓ Subordination Agreement.
- ✓ Leases and assignments of leases.
- ✓ Application and attachments.
- Schedule of Collections.
- ✓ Operator's monthly reports and all attachments (latest on top).

Right Side

- Project summary.
- ✓ Work completed analysis.
- ✓ All other material is filed in chronological order with correspondence including the following reports as checked:
  - ✓ Final Field Team Report. (Tab)
  - ✓ Operator's Final Report.
  - ✓ Interim Reports.
  - ✓ On-site Exam Report(s). (Tab)
  - Settlement Sheets.

all Cons is folder #1

If additional folders are required because of volume of records, show folder numbers and contents below:

Maps in folder number 2

Operator's Monthly Reports in folder number 2

gla 1-22-57
Reviewer's Initials

7973

DEFENSE MINERALS EXPLORATION ADMINISTRATION
CONTRACT ADMINISTRATION AND AUDIT DIVISION

AUDIT CERTIFICATE

I have examined the records and transactions of the:

Inland Mining Corporation
1408 Life of America Building
Dallas, Texas
and
Mena, Arkansas

pertaining to Exploration Project Contract No. Idm-E280, Docket No. DMEA-2299, including Amendments Nos. 1 and 2, covering a project for the exploration of manganese located in the Mena District of Polk County, Arkansas, for the period of April 1, 1952 to June 30, 1953, inclusive.

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

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

Total cost as billed by contractor		$22,055.79
Less: Salvage Proceeds on Property		200.00
Net claimed cost		21,855.79
Exceptions (see Audit Report for details):		
Prior to this audit	$ -0-	
During this audit	3,079.29	3,079.29
Total accepted cost		$18,776.50

The contract calls for a 75 percent participation of exploration expenses by the United States Government. Therefore, payment to the contractor by the Government in the amount of Fourteen thousand eighty-two and 38/100 Dollars,

$14,082.38

is valid and proper.

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

E. D. Talbert, Auditor

September 23, 1953

AUDIT REPORT

I INTRODUCTION

On August 19 and 20, 1953 a final audit (covering operations for the period of April 1, 1952 to June 30, 1953) was made of the records and accounts pertaining to Exploration Project Contract No. Idm-E280, Docket No. IMEA-2299, including Amendments Nos. 1 and 2, with the:

Inland Mining Corporation
1408 Life of America Building
Dallas, Texas
and
Mena, Arkansas

covering a project for the exploration of manganese in the Mena District of Polk County, Arkansas.

Prior to the actual site audit of the records, this auditor made a complete review and analysis on August 17 and 18, 1953, of the documentation submitted by the Operator in support of the Report and Voucher Forms MF-104 and retained in the files of the Bureau of Mines Regional Finance Officer, 5th floor, Barfield Building, Amarillo, Texas.

The accounts and original records pertaining to this project were in the custody of Mr. W. T. Townsend, Assistant Treasurer of the Inland Mining Corporation, and were located in the offices of Heyser & Heard, Oil Producers, 1408 Life of America Building, Dallas, Texas. Mr. Townsend, who is also the Accountant for the Heyser & Heard firm, was consulted frequently during the course of the audit and was very cooperative at all times.

II GENERAL INFORMATION ON RECORDS

A full set of corporation accounting records were maintained by this Operator. They consisted of a comprehensive general ledger with numerous subsidiary cost accounts. All postings were made from journal vouchers, to which original documentation or justification for the entries were attached, and which were numbered consecutively with a prefix to indicate the month. All journal vouchers were cleared through either an Accounts Payable or a Vouchers Payable register and, when covering payments, carried references to the check numbers. The accounting operations were under the immediate supervision of Mr. Townsend, as Accountant for Heyser & Heard.

With the exception of relatively small amounts disbursed through a petty cash fund maintained in the Inland Mining Corporation's field office at Mena, Arkansas, payments were made by checks signed by E. S. Heyser, President, and W. T. Townsend, Assistant Treasurer, and drawn on the First National Bank in Dallas, Dallas, Texas.

III SCOPE OF AUDIT AND FINDINGS

The audit was limited to ascertaining the accuracy, propriety and validity of the costs shown in the "Totals to Date" column of Form MF-104, Operator's Monthly Report and Voucher, for the period ending June 30, 1953, as adjusted by the subsequent settlement of the Government's equity in certain project property. The findings, after correction of the improper distribution of charges to the "Items of Cost" shown on the Forms MF-104, follow:

(1) Independent Contracts:

This item is not applicable to this contract.

(2) Labor and Supervision:

A detailed analysis of the weekly payrolls, a comparison of the payrolls with the applicable tax returns, an audit of the consultant's periodical invoices, and a spot check of foreman's time books, individual earnings cards, cancelled checks and other documents disclosed the following charges applicable to and allowable under this item of costs:

	Costs Claimed	Disallowed by Audit	Acceptable Costs
Labor:			
Drill Opr. & Samplers—			
1,298½ hrs. @$1.25/hr.	$1,623.12	$ -	$1,623.12
28½ " @ 1.875/hr.*	53.44	-	53.44
Tractor Operator—			
164 hrs. @$1.50/hr.	246.00	-	246.00
1 " @ 2.25/hr.*	2.25	-	2.25
Bulldozer Operator—			
64 hrs. @$1.00/hr.	64.00	-	64.00
88 " @ 1.25/hr.	110.00	-	110.00
4 " @ 1.875/hr.*	7.50	-	7.50
Laborers—			
74½ hrs. @$ .80/hr.	59.60	-	59.60
742 " @ 1.00/hr.	742.00	-	742.00
3 " @ 1.50/hr.*	4.50	-	4.50
Foreman (H.B. Graves)—			
481½ hrs. @$1.75/hr.	842.63	-	842.63
83½ " @ 2.625/hr*	219.20	-	219.20
Totals	$3,974.24	$ -	$3,974.24

*Overtime rates.

	Costs Claimed	Disallowed by Audit	Acceptable Costs
Technical Services:			
Resident Geologist—			
Bernard Archer @ $400/mo.	$1,190.40	$ 432.00	$ 758.40
Engineering Assistants—			
Roy Dunfee @ $300/mo.	512.31	-	512.31
Homer Evans @ $300/mo.	199.90	-	199.90
Consulting Mining Geologist—			
R. B. McElwaine @ $90/day	5,085.00	2,079.00	3,006.00
" " " @ $100/day	400.00	-	400.00
Totals	$7,387.61	$2,511.00	$4,876.61

Supervision of the exploration project was provided by the employment, as Managing Officer, of Mr. Cecil B. Chenoweth at a salary of $1,000.00 a month. His salary was not claimed as a cost of the project.

The charges for Labor include the Corporation's entire labor payroll for the months of April and May, a major portion of the June 1-15 payroll, none of the June 16-30 payroll, and a small amount ($243.63) during July for clean-up work. The time records did not indicate the claims on which the labor was employed, but Mr. Townsend (Assistant Treasurer of the Corporation) and Mr. Williams (Executive Officer of the DMEA Field Team) concurred that all labor charged to the project was employed on the claims specified in the contract (American, Caddo and Sugartree Groups) or, after May 18, 1953, on the claims specified in Amendment No. 2 (the Bear Tusk Group) and that the balance of the June 1-15 payroll and all of the June 16-30 labor payroll covered work on claims (New Find, Hurricane Bill, Baleff, and Coon Creek Groups) not included in the project contract.

The charges for Technical Services other than the Consultant, include the entire s alaries of the Resident Geologist and the Engineering Assistant for the months of April and May, 75.2% of the Resident Geologist's salary and 90% of the Engineering Assistant's salary during the first half of June, none of the salaries during the last half of June, and 60% of the Resident Geologist's salary during July. The 75.2% was calculated on the basis of the relation of the project labor costs to the total labor costs for the period. The other percentages were estimates, but were considered reasonable.

The fees of the Consulting Mining Geologist charged to the project were exclusive, during June and July, of the time spent on claims not included in the contract. However, during April and May, his fees for 19 days and 23½ days, respectively, were charged in their entirety to the project, despite the fact that the Operator's narratives for these months contain the following statements:

(a) April—

"About 65% of his time was spent on field work consisting of geological reconnaissance on other holdings of the Corporation and public domain in the area" and "The resident geologist has assisted the consulting geologist in the field work."

(b) May—

"Twelve and three-quarters days were spent directing and supervising the exploration work and sampling" and "Ten and three-quarters days were spent in geological reconnaissance work."

During the audit the Assistant Treasurer (Mr. Townsend) indicated that it was his understanding that the entire time charged by the Consulting Geologist during the months of May and June was devoted to the property included in the contract. Completion of this audit report accordingly was delayed to provide the Operator an opportunity to submit further evidence of the validity of these costs.

A subsequent letter dated September 12, 1953 addressed to the Assistant Treasurer (Mr. Townsend) by the Consulting Geologist (Mr. McKluaine) contends that: (1) by footnote to the Exhibit "A" of the original contract his duties were described as including the selection of new project sites and directing the mapping thereof; (2) as a result of personal talks with the former Executive Officer of the DMEA Field Team (Mr. Gallagher) he understood that he was to work on any and all of the 167 mining claims included in Appendix "A" of the original contract; (3) all of his work during April and May was on or for the benefit of the 167 claims; (4) the reference to public domain meant that the tracing of a deposit or structure on the specified 167 claims often extended beyond the claim boundaries; and (5) it was necessary for him to spend some time each day at the sites of the exploratory work.

Amendment No. 1 to the contract, however, specifically states that "the original Exhibit A is hereby deleted and in lieu thereof Revised Exhibit A is substituted therefor." The Revised Exhibit "A" specifies that "Stage I will consist of exploration in four places as specified below" and the four places specified are sites on the American, Caddo and Sugartree Groups of claims, involving only 4, 8 and 15 claims, respectively. It, therefore, appears that the reconnaissance work performed by the Consulting Geologist was not necessary or incident to the exploratory work authorized by Amendment No. 1 to the contract. Accordingly, disallowances have been taken for a proportionate share of both the Consulting Mining Geologist's fees and the Resident Geologist's salary for the months of April and May, 1952, for the time indicated as having been spent on reconnaissance work.

(3) <u>Operating Materials & Supplies</u>:

The costs chargeable to this category were determined by a detailed audit and analysis of the vendors' invoices and a spot check of

the cancelled checks and the book entries. A summary of the audit findings follows:

	Costs Claimed	Disallowed by Audit	Acceptable Costs
Drilling Supplies	$1,553.80	$ 2.58	$1,551.22
Explosives	559.80	12.64	547.16
Gasoline	325.29	15.34	309.95
Diesel Fuel	245.97	10.02	235.95
Lubricants, etc.	149.99	3.87	146.12
Small Tools, etc.	223.11	3.55	219.56
Tires & Tubes	79.42	-	79.42
Sampling Supplies	264.20	9.78	254.42
Office Supplies	214.89	16.45	198.44
Blueprinting, etc.	33.59	-	33.59
Miscellaneous Hardware & Sundries	86.84	-	86.84
Total	$3,736.90	$74.23	$3,662.67

During the month of June, when exploration work was performed on claims other than those included in the contract as amended, the Operator prorated his costs for this category (except for blueprinting services, which could be identified to the pertinent claims) on the basis of the applicable direct labor (including the Engineering Assistant, but excluding the Resident Geologist). The method of distribution was considered reasonable and equitable, but the share chargeable to the DMEA project was erroneously calculated as 59.5%. Based upon the total time card labor for June of $1,647.81 and the DMEA portion of $746.81, the DMEA share of the materials and supplies properly should be 45.33%. The disallowances reflected in the above summary are the result of the application of the corrected percentage.

All of the items of costs, including office supplies, claimed by the Operator and allowed by this audit were specifically listed as allowable costs of the project in Amendment No. 1 to the contract. The item of Office Supplies covers necessary supplies, such as stationery, desk supplies, paper cups, and paper towels, for the field office at Mena, Arkansas, for which other costs, such as light, water, telephone, rent, etc., were absorbed by the Corporation.

By letter dated September 16, 1953, addressed to this auditor, the Executive Officer of the DMEA Field Team indicated it was his intention to waive the Government's interest in the small amount of drill steel and tools unexpended upon the termination of the project.

(4) Operating Equipment:

The audit disclosed that the costs chargeable to, and allowable under, this category to be as follows:

	Costs Claimed	Disallowed by Audit	Acceptable Costs
Rental:			
250 cfm Jaeger Air Compressor	$1,297.50	$70.85	$1,226.65
Return Freight	144.64	-	144.64
	$1,442.14	$70.85	$1,371.29
Purchase:			
Model 38 Thor Jackhammer	$ 350.00	$ -	$ 350.00
Less: Salvage Proceeds	200.00	-	200.00
	$ 150.00	$ -	$ 150.00
Depreciation:			
Various, per contract, @$683.66/mo.	$1,774.10	$96.87	$1,677.23

The Operator prorated the charges for Rental and Depreciation during the month of June, 1952 on the same basis as used for (3) Operating Materials and Supplies. Accordingly, disallowances have been made, as indicated in the above summary, for the differences due to the erroneous computation of the applicable percentage. At the conclusion of the project the Thor Jackhammer was sold to the Browning-Ferris Machinery Company.

(5) Initial Rehabilitation and Repairs, and
(6) New Buildings, Improvements, etc.

Neither of these items are applicable to this contract.

(7) Miscellaneous:

The findings of the audit with reference to this item of costs are summarized as follows:

	Costs Claimed	Disallowed by Audit	Acceptable Costs
Repairs to Equipment:			
Various	$586.23	$36.97	$549.26
Sampling & Analysis:			
Assay Charges	$623.00	$ -	$623.00
Grinding and Preparation	8.25	-	8.25
Express on Samples	43.85	-	43.85
	$675.10	$ -	$675.10
Payroll Taxes:			
Social Security	$ 97.00	$ 6.48	$ 90.52
Federal Unemployment	19.40	1.30	18.10
Arkansas Unemployment	174.62	11.66	162.96
	$291.02	$19.44	$271.58

	Costs Claimed	Disallowed by Audit	Acceptable Costs
Liability Insurance:			
Workmen's Compensation	$ 300.79	$ 28.15	$ 272.64
Occupational Disease	3.86	2.95	.91
General Liability	122.37	122.37	-
	$ 427.02	$153.47	$ 273.55
Other Insurance:			
Equipment Loss or Damage	$ 7.13	$ 7.13	-
Accounting & Stenographic Services:			
Bookkeeping Services	$ 800.00	$109.33	$ 690.67
Stenographer's Salary	590.80	-	590.80
Public Stenography	13.50	-	13.50
	$1,404.30	$109.33	$1,294.97

Repairs to Equipment were verified by an audit of all invoices and a spot check of proof of payment by reference to the cancelled checks. The charges covered numerous and sundry purchases of repair parts and materials, as well as maintenance and repair services, for the various items of equipment used on the project. During June, 1952, the Operator prorated these costs between the DMEA project and other claims by the method explained under (3) Operating Materials and Supplies. The disallowance, indicated in the above summary, resulted from the application of the corrected distribution percentage.

Sampling & Analysis includes the following assay charges on ore samples applicable to the claims included in the contract:

Southwestern Engineering Co.			$ 49.50
Bruce Williams Laboratories	516 @	$ 1.00	516.00
" " "	5 @	5.50	27.50
" " "	1 @	30.00	30.00
Total			$623.00

The Bruce Williams Laboratories also made an additional charge of $8.25 for grinding and preparation. All charges were verified by audit of the invoices and cancelled checks.

Payroll Taxes charged to this project were audited by reference to the payroll summaries, cancelled checks, the Employer's Quarterly Federal Tax Returns (Identification No. C-75-0824552) and the Arkansas Unemployment Compensation Contribution Reports (Acct. No. ESD No. 1099-57-59509). The rates applicable to the labor wages and the salaries of the resident geologist, engineering assistants and the field stenographer were:

F.I.C.A. (Social Security)	1.5%
Federal Unemployment Compensation	.3%
Arkansas Unemployment Compensation	2.7%

A disallowance, as shown in the above summary, has been made for the taxes applicable to the portion of the Resident Geologist's salary disallowed under (2) Labor and Supervision.

Liability Insurance costs allowable under this contract were determined to be a proportionate share of the premiums paid under two standard workmen's compensation and employers' liability policies, with occupational disease endorsements, with the American Automobile Insurance Company, i. e., policy No. C-260 1744, for the period of May 1, 1951 to April 30, 1952, and No. C-262 6952, for the period of May 1, 1952 to April 30, 1953. The applicable rates per $100 remuneration were as follows:

		May 1, 1951 to April 30, 1952	May 1, 1952 to April 30, 1953
Compensation:	Field Employees	$5.11	$4.94
	Clerical "	.08	.08
Occupational Disease		.015	.015

The disallowances reflected in the above summary resulted from several sources, i. e.:

(a) The field payroll for the months of May, June and July (total amount $3,737.47) was computed at the $5.11 rate instead of the $4.94 rate, a difference of $6.36;
(b) The occupational disease premium on the April payroll ($2,314.38) was billed as $3.24, whereas correct computation is $.35, a difference of $2.89; and
(c) The workmen's compensation and occupational disease premiums include amounts of $13.29 (at the $5.11 rate), $8.50 (at the $4.94 rate) and $.06 (at the $.015 rate) applicable to the portion of the Resident Geologist's salary disallowed under (2) Labor and Supervision.

In addition to the employers' liability insurance the Operator charged as project costs a share of the premiums paid under two comprehensive liability policies with the American Automobile Insurance Company, i. e., policy No. K-203 7725, for the period of May 1, 1951 to April 30, 1952, and No. K-205 5885, for the period of May 1, 1952 to April 30, 1953. The premiums under these liability policies were based on rates per $100 of employees' remuneration as follows:

Coverage		Field Payroll	Clerical Payroll
Bodily Injury	$100,000/$300,000	$1.143	$.007
Property Damage	$5,000/$25,000	.938	.006

This insurance was neither specifically authorized by the contract as amended nor required by Arkansas laws or regulations. It was solely for

the benefit and protection of the Corporation and cannot be considered a necessary direct cost of the exploration work under the terms of the contract. Accordingly, the entire amount charged to the project by the Operator has been disallowed.

Other Insurance costs claimed by the Operator consisted of a share of the premiums allocated to the rented air compressor, which was included in a special floater policy ($100 deductible loss or damage) issued by the Fireman's Fund Insurance Company, No. 33224, effective April 28, 1952. Since the rental agreement did not require this insurance coverage and it was entirely for the protection of the Corporation, it cannot be considered a necessary direct cost of the project. The entire amount claimed, therefore, has been disallowed.

Accounting and Stenographic services include the bookkeeping and related services @ $200/mo. performed by the accounting department of Heyser & Heard organization, the services of a stenographer @ $175/mo. in the field office at Mena, Arkansas, and public stenographic services (Lee's Letter Shop, Joplin, Missouri) for the preparation of the narrative accompanying the June MF-104.

The Operator charged the entire cost of the accounting services for the month of June to the project. Since, however, the accounting services for that month were also for the benefit of work not included in the contract, it was considered reasonable and equitable to prorate this charge on the basis of the direct labor in the same manner as under (3) Operating Materials and Supplies. Accordingly only 45.33% of the month's charge of $200.00, i. e. $90.67, has been allowed and the differences has been disallowed.

The stenographer's salary for the months of April, May and July was charged in its entirety to the project. During June, 75.2% of the salary for the first half of the month and nothing during the last half, was charged. Since this distribution was on the basis of time card labor, it was considered reasonable and equitable.

IV CONCLUSIONS

The audit disclosed that all costs charged to this project, with the exception of the disallowances itemized in the preceding section III of this report are reasonable and proper under the terms of the contract.

The adjustments between "Items of Costs" as shown on the final Form MF-104, the disallowances, and the accepted costs are summarized below:

	Totals Final NF-104	Corrected Distribution	Disallowed by Audit	Accepted Costs
(2) Labor & Supervision:				
Labor	$ 6,467.65	$ 3,974.24	$ -	$ 3,974.24
Bookkeeping Service	800.00	-		-
Technical Services	5,485.00	7,387.61	2,511.00	4,876.61
(3) Operating Mat'ls. & Sup.	4,924.80	3,736.90	74.23	3,662.67
(4) Operating Equipment:				
Rental	1,297.50	1,442.14	70.85	1,371.29
Purchase	350.00	350.00	-	350.00
Depreciation	1,774.10	1,774.10	96.87	1,677.23
(7) Miscellaneous:				
Repairs to Equipment	231.57	586.23	36.97	549.26
Sampling & Analysis	-	675.10	-	675.10
Payroll Taxes	291.02	291.02	19.44	271.58
Liability Insurance	122.37	427.02	153.47	273.55
Compensation Insurance	304.65	-	-	-
Insurance on Compressor	7.13	7.13	7.13	-
Acctg. & Stenographic	-	1,404.30	109.33	1,294.97
Totals	22,055.79	22,055.79	3,079.29	18,976.50
Property Proceeds	200.00	200.00	-	200.00
Adjusted Totals	$21,855.79	$21,855.79	$3,079.29	$18,776.50

The status of the "allowable maximums" under this contract follow:

	Allowable Maximum	Accepted Costs	Balance
Labor, supervision, consultants, including bookkeeping and stenographic services, and payroll taxes and insurance	$14,800.00	$10,690.95	$4,109.05
Operating materials and supplies, including sampling and assaying	7,500.00	4,337.77	3,162.23
Operating equipment purchased, 1 jackhammer	360.00	150.00	210.00
Operating equipment rented, 1 air compressor	1,500.00	1,371.29	128.71

	Allowable Maximum	Accepted Costs	Balance
Operating equipment furnished by the Operator, various	2,051.00	1,677.23	373.77
Repair and maintenance of all project equipment	789.00	549.26	239.74
Total, Stage I	$27,000.00	$18,776.50	$8,223.50
Total, Stage II	$73,000.00	$ -	$73,000.00

At the conclusion of the audit the findings were discussed in detail with the Assistant Treasurer of the Inland Mining Corporation (Mr. W. T. Townsend), who expressed his concurrence and acceptance except with respect to the disallowances of the Consultant's fees and the Resident Geologist's salary (and the applicable portion of the payroll taxes and insurance).

E. D. Talbert

E. D. Talbert, Auditor

September 23, 1953

NOV 6 1952

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Government's Copy

INLAND MINING CORPORATION
EXPLORATION PROJECT CONTRACT
DOCKET NO. DMEA-2299

AMENDMENT NO. 2

It is agreed this 5th. day of November, 1952, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, and the Inland Mining Corporation, each acting in consideration of the agreement of the other to the terms hereinafter set forth that Exploration Project Contract Idm-E280, dated March 27, 1952, between the parties hereto be modified as follows:

In Appendix A under "Description of Property" add the following: The Boar Tusk Group of twelve (12) claims in T. 3 S., R. 30 W., sec. 19, 20, and 26, and T. 3 S., R. 31 W., sec. 24, as indicated on the map attached hereto and made a part hereof and entitled "A Diagram of Sections of Claims 'Boar Tusk Group' 'R 30 W & R 31 W, T 3 S'".

In "Revised Exhibit A" attached to Amendment No. 1, under "Stage 1, Exploration Project," on page 1, paragraph 1, line 1, delete the word "four".

On page 2 after the paragraph entitled "Project 6", add the following: "Project 7: Boar Tusk Group of Claims (referred to in Appendix A). Approximately 6000 lineal feet of bulldozer trenches and attendant work as outlined above, and as approved by the Government."

This amendment shall be effective as of May 19, 1952, and the cost of the work referred to in Project 7 of Stage I shall be paid out of funds allocated for Projects 1 and 2 of Stage I, further work on which has been discontinued as unjustified.

This amendment shall not be construed to increase the estimated total cost of the project, the aggregate total

amount which the Government may be obligated to pay, or the percentage of the costs which the Government may be obligated to pay, under the provisions of Article 13 of the contract form.

UNITED STATES OF AMERICA

By David Gallagher
David Gallagher, Executive Officer
DMEA Field Team - Region VI

INLAND MINING CORPORATION

By Cecil B. Chenoweth
Cecil B. Chenoweth, Vice-President

Government Copy
Manganese

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

Amendment #2 to Exploration Project Contract
Idm-E280 (Docket No. DMEA-2299)

Contract Idm-E280 (Docket No. DMEA-2299), dated March 27, 1952, between the United States of America and the Inland Mining Corporation is hereby amended as follows:

Revised Exhibit A (Amendment #1) is hereby further amended as follows:

Page 1, Stage I, Exploration Project, paragraph 1, line 1: delete the word "four".

Page 2, Stage I, Exploration Project (cont.) after "Project 6" add:

Project 7: - Boar Tusk Group of claims 1-12 inclusive in T. 3 S., R. 30 W., sec. 19, 20, and 26, and T. 3 S., R. 31 W., sec. 24 (see attached plat). Appropriate bulldozer trenches and attendant work as outlined above.

This amendment, effective May 19, 1952, is drawn because bulldozer work alone has shown that no further work, or expenditures of money, are justified on Stage I Projects 1 and 2. Therefore funds originally intended for further work on Projects 1 and 2 are available for work elsewhere and Project 7, the Boar Tusk Group, has been selected for additional execution within the stipulations regarding Stage I as set forth in the Revised Exhibit A (Amendment #1) of Contract Idm-E280.

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

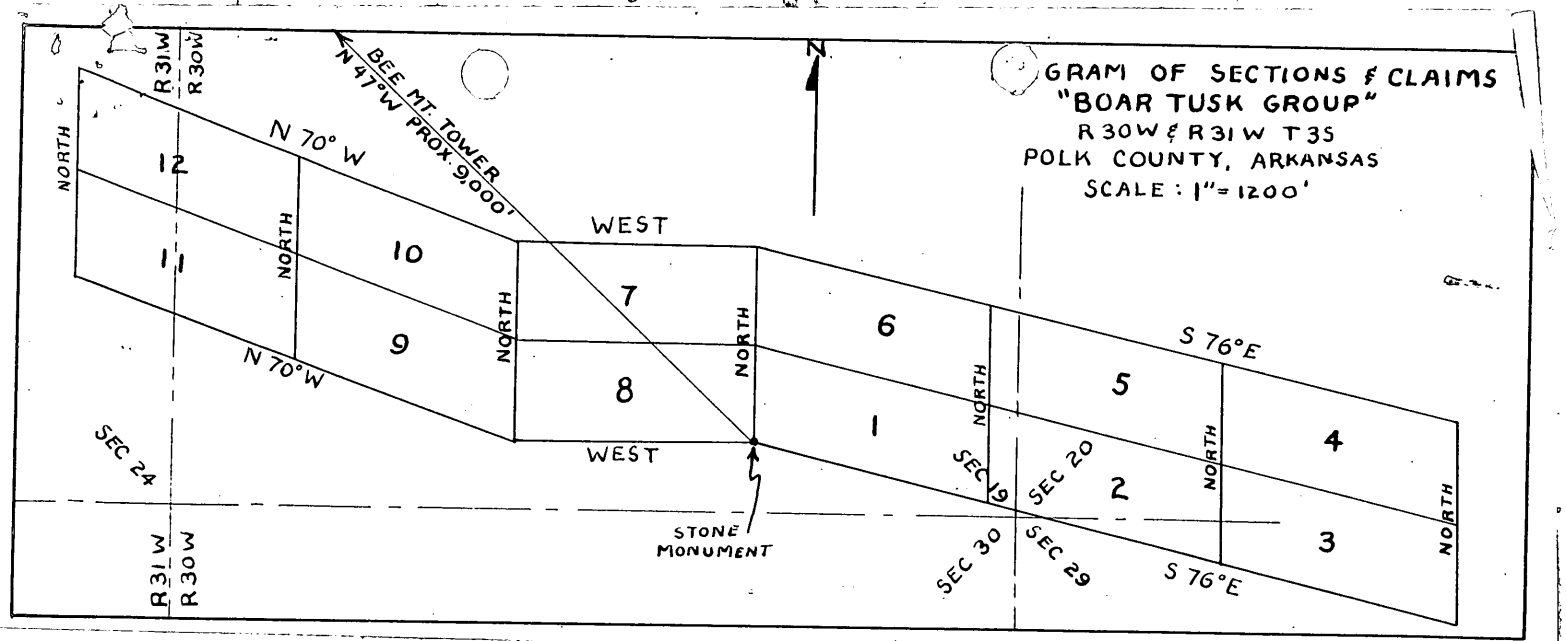
UNITED STATES OF AMERICA

By David Gallagher
David Gallagher
Executive Officer - DMEA

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 21 1952

INLAND MINING CORPORATION

By Cecil B. Chenoweth
Cecil B. Chenoweth
Vice President


GRAM OF SECTIONS & CLAIMS
"BOAR TUSK GROUP"
R 30W & R 31W T 3S
POLK COUNTY, ARKANSAS
SCALE: 1" = 1200'
N
BEE MT. TOWER
N 47°W PROX. 9,000'
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UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
~~WASHINGTON 25, D.C.~~
Joplin, Missouri
May 19, 1952

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 21 1952

Operating Committee
Defense Minerals Exploration
Administration
U. S. Department of Interior
Washington 25, D. C.

Re: Docket No. DMEA 2299
Contract No. Idm-E280
Inland Mining Corporation

Dear Sirs:

Forwarded herewith are the original and two copies of Amendment #2 dated May 19, 1952 to the subject contract, for attachment to the original and two copies of said contract in Washington.

One copy each of this letter, with one copy of the amendment attached thereto, has been sent today to the Operator, Inland Mining Corporation, and to Ray C. Jonas, Finance Officer in Amarillo, for attachment to their copies of the contract. One copy has been attached today to the copy of the contract in this office.

Sincerely yours,

David Gallagher

David Gallagher
Executive Officer
DMEA Field Team, Region VI

/jd
Encs.

cc: Inland Mining Corporation
Ray C. Jonas

gis

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

Amendment #1 to Exploration Project Contract
Idm-E280 (Docket No. DMEA-2299)

Contract Idm-E280 (Docket No. DMEA-2299), dated March 27, 1952, between the United States of America and the Inland Mining Corporation is hereby amended as follows:

The original Exhibit A is hereby deleted and in lieu thereof Revised Exhibit A is substituted therefor and is hereby attached to and becomes a part of Contract Idm-E280, as follows:

REVISED EXHIBIT A

The exploration will be performed in two stages called Stage I and Stage II. Stage I will consist of exploration in four places as specified below. Stage II is established to provide for additional explorations to be recommended by the Operator and no part thereof shall be commenced until written approval therefor is issued by the Executive Officer of the Field Team.

STAGE I

Exploration Project

At the four places stipulated below the following work will be performed, consistent with the purposes of Contract Idm-E280 and especially Article 4 thereof, and in accordance with the following general plan: (A) Bulldoze cross trenches and longitudinal trenches through the overburden approximately as shown on the pertinent maps, attached hereto; (B) obtain samples by means of drilling holes not more than 25 feet in depth; (C) excavate trenches about 2 feet to 4 feet wide and about 4 feet deep by drilling and blasting within the bulldozer cuts in order to obtain suitable samples to be taken at about 10-foot intervals.

Project 1: - Site 1, Sugar Tree group (see Plate I). Approximately 600 lineal feet of bulldozer trenches and attendant work as outlined above.

Project 2: - Site 1, Caddo group (see Plate II). Approximately 400 lineal feet of bulldozer trenches and attendant work as outlined above.

(Note: Projects numbered 3 and 4 in the application, on the maps, and in the original Exhibit A are not a part of this contract.)

Project 5: - Site 4, American group, excepting that portion lying within Claim No. 6 (see Plate IV). Approximately 500 lineal feet of bulldozer trenching and attendant work as outlined above.

Project 6: - Site 5, American group (see Plate IV). Approximately 400 lineal feet of bulldozer trenches and attendant work as outlined above.

Allowable Costs of The Project

(1) Independent contracts: - None

(2) Labor, supervision, consultants: - Wages, salaries, and fees, consistent with prevailing local rates, for approximately 55 shifts or about 3 months as the case may be, for tractor operators, drillers, laborers, samplers, foremen, geologists, engineering assistants, stenographers and bookkeepers, as required $13,625.00

WCI, OAB, FUI, etc. 1,175.00

Total not to exceed $14,800.00*

(3) Operating materials and supplies, to include Diesel fuel, gasoline, lubricants, explosives and accessories, sampling supplies, sample transportation, assaying charges, drilling supplies and accessories, tires and tubes, office supplies, blueprinting and other duplicating services, and miscellaneous small tools, accessories and supplies.

Total not to exceed 7,500.00*

(4) Operating equipment: -

To be purchased

1 - Jackhammer, new, wet-drilling type 360.00*

To be rented

1 - 250 cfm Jaeger Diesel portable air compressor at $500 per month for 3 months 1,500.00*

To be furnished by the Operator

1 - International "TD24" Crowler-type tractor with bulldozer attachment, value $24,000, depreciation $400 per month for 3 months ...		$ 1,200.00
1 - 250 cu. ft. per minute Diesel-powered "Jaeger" portable air compressor, value $6,700, depreciation $111.67 per month for 3 months	335.00	
1 - "Chicago-Pneumatic" wagon drill complete, value $2,600, depreciation $43.33 per month for 3 months	130.00	
2 - Jackhammers, complete, value $720, depreciation $12 for 3 months	36.00	
1 - "Jeep" pick-up truck, four-wheel drive, with front-mounted winch, value $2,000, depreciation $33.33 per month, for 3 months.	100.00	
1 - "Jeep" station wagon, four-wheel drive, value $2,000, depreciation $33.33 per month, for 3 months	100.00	
1 - Chevrolet truck, 1950, one-ton capacity, flat-bed, value $1,000, depreciation $16.67 per month for 3 months	50.00	
All necessary surveying, drafting and office equipment, including transit, calculator, typewriter, etc., value $2,000, depreciation $33.33 per month for 3 months	100.00	$ 2,051.00*

The monthly depreciation allowance is chargeable only for the months in which the Operator's equipment is used for the benefit of the project.

(5) Rehabilitation and repairs: - None

(6) New buildings, improvements, installations: - None

(7) Miscellaneous: - Repair and maintenance items are to be charged against the project only as incurred and spent while the equipment is working on the project. Other requirements listed in Article 6 (7) of the contract form are included elsewhere.

Repair of equipment, estimated for 3 months 789.00*

Total amount of Stage I not to exceed $27,000.00*

* -- Allowable maximums

STAGE II

Stage II will be undertaken only after the prosecution of Stage I to the satisfaction of andapproval of the Government, which approval will be dependent upon the results obtained in Stage I.

Stage II may consist of one or more individual exploration projects that may be submitted and approved individually during the life of the contract.

The Operator shall obtain the written consent of the Government as represented by the Executive Officer of the DMEA Field Team prior to commencing work on any part of Stage II.

The total expenditure of Stage II, as may hereinafter be approved by the Government upon acceptance of Stage I, and the acceptance of additional projects shall not exceed	$73,000.00*
Total estimated cost	$100,000.00
Government participation 75 percent of the above, or	75,000.00*

* -- Allowable maximum

The Operator may, at his own expense, obtain leases or make mining locations upon lands suitable for additional exploration projects and the said lands may become a part of this contract by amendment.

This Amendment #1 is effective as of April 4, 1952.

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

See Ex. Off. memo 7/2/52 for justification

UNITED STATES OF AMERICA

By David Gallagher
David Gallagher
Executive Officer - DMEA

INLAND MINING CORPORATION

By Cecil B. Chenoweth
Cecil B. Chenoweth
Vice President

MF-200
(June 1951)
(Revised Feb. 1952)

Docket No. DMEA-2299
Commodity Manganese
Idm-E280

GOVERNMENT'S COPY

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

EXPLORATION PROJECT CONTRACT 1/

It is agreed this 27th day of March, 1952, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and 2/ Inland Mining Corporation, a corporation founded and existing under the laws of the State of Delaware, and whose address is 523 Republic Bank Building, Dallas, Texas.

hereinafter called the "Operator," as follows:

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

ARTICLE 2. Operator's property rights. With respect to that certain land situated in the State of Arkansas, County of Polk, described as follows:

1/ If sufficient space is not provided in any blank, use an extra sheet of paper and refer to it in the blank.

2/ State name, address, and nature of organization if any.

3/ See "Appendix A"

the Operator represents and undertakes:4/

(a) [illegible]

[illegible]

See "Appendix A"

(b) That the Operator is a lessee, in possession and entitled to possession, and the Owner's Consent to Lien is attached:

The Operator shall devote the land and all existing improvements, facilities, buildings, installations, and appurtenances to the purposes of the exploration project without any allowance for the use, rental value, depreciation, depletion, or other cost of acquiring, owning, or holding possession thereof.

ARTICLE 3. Exploration project. The Operator, within thirty (30) days from the date of this contract shall commence

3/ Give legal description or enough to identify the property, particularly excluding any land or interest therein to which the Government's lien is not to attach or the production from which is not to be subject to the Government's percentage royalty.

4/ Strike out the provision not applicable.

on a project of exploration for[5] Manganese

in or upon the described land; and shall bring the project to completion within a period of twelve (12) months from the date of this contract. The work to be performed is more fully described in Exhibit "A" attached hereto, which, with any maps or drawings thereto attached, are made a part of this contract. The Government will contribute to the cost of this work as hereafter provided.

ARTICLE 4. Performance of the work. (a) Operator's responsibility. The work shall be performed efficiently, expertly, in a workmanlike manner, in accordance with good mining standards and State regulations for health and safety and for workmens' compensation and employers' liability insurance, with suitable and adequate equipment, materials, and labor, to bring the project to completion within the time fixed. To the extent specified in Exhibit "A" , attached hereto, the work may be performed by independent contractor or contractors; and work not specified in Exhibit "A" for performance by independent contractor may nevertheless be so performed upon amendment of Exhibit "A", as agreed to by the parties, to state the work to be so performed and the estimated unit costs thereof, as provided hereafter.

(b) Independent contracts. Any independent contract for the performance of work shall be on a unit-price basis (such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, per cubic yard of material moved), or on some basis that will indicate the amount due for work performed at any stage of the work to be performed

5/ Name of mineral or minerals.

under such independent contract. The Government shall not be nor be considered to be a party to any such independent contract, and the Government's right to terminate the exploration project contract under any of its provisions shall not in any manner be affected by reason of any such independent contract. If the reference in Exhibit "A" to any such independent contract states that the Government's approval thereof is required, the Government may refuse to participate in the cost thereof unless and until it has given its written approval of the independent contract.

(c) Government may inspect. The Government shall have the right to enter and observe and inspect the work at all reasonable times, and the Operator shall provide the Government with all available means for doing so. The Government may consult with and advise the Operator on all phases of the work.

ARTICLE 5. Estimated costs of the project. A statement of the estimated cost of the project is set forth in Exhibit "A", attached hereto. Except insofar as any item of requirement or the estimated cost thereof set forth in Exhibit "A" is there or elsewhere designated as an "allowable maximum," such items of requirement and of related cost are estimates only, and may be exceeded to the extent that the Government may from time to time approve for the most economic and beneficial performance of the work within the limitation of the total aggregate estimate of costs. The Government's approval of any such excess over the estimate for an item of requirement or related cost will be signified by its approval and payment of any invoice or voucher for payment which expressly calls attention to such excess. Items expressly designated in Exhibit "A" or

elsewhere as "allowable maximum," and the total aggregate estimated cost are limitations, and any excess therein will be for the sole account of the Operator in which the Government will not participate.

ARTICLE 6. Allowable costs of the project. (a) The costs of the project in which the Government will participate are limited to the following:

(1) Independent contracts. Payments to independent contractors under independent contracts listed in Exhibit "A". The estimated cost of any work to be performed under an independent contract is or shall be included in the estimate of costs in Exhibit "A" in terms of the estimated numbers of units of work to be performed, the estimated amount to be paid per unit, and the estimated total amount to be paid to the independent contractor, and such estimates shall be allowable maximums above which the Government will not contribute. Regardless of the provisions of any such independent contract, the Government will participate in the payments to the independent contractor only on account of work actually performed and that conforms with the provisions of the exploration project contract, and only to the extent that the Government deems the unit prices for the work under the independent contract to be reasonable and necessary. No such independent contract shall have the effect of increasing the estimated total cost of the exploration project contract nor the maximum amount which the Government will pay as provided in the exploration project contract.

(2) Labor, supervision, consultants. Labor, supervision and technical services (including engineering and geological consultants),

a schedule of which is included in the estimate of costs set forth in Exhibit "A". The requirements and related estimated costs for supervision and technical services are allowable maximums.

(3) Operating materials and supplies. Necessary materials and supplies including expendable items of equipment costing less than $50.00 each, and power, water, and fuel, a schedule of which is included in the estimate of costs in Exhibit "A".

(4) Operating equipment. Any operating equipment to be rented or purchased, or which is owned and will be furnished by the Operator, with the estimated rental, purchase price, or the allowable depreciation, as the case may be, a schedule of which is included in Exhibit "A". Any items listed for purchase or as owned and to be furnished by the Operator, and related purchase price and allowable depreciation, are allowable maximums.

(5) Rehabilitation and repairs. Any necessary rehabilitation or repairs of existing buildings, installations, fixtures, and movable operating equipment, now owned by the Operator and to be devoted to the purposes of the exploration contract, a schedule of which is included in the estimate of costs set forth in Exhibit "A". These items are allowable maximums.

(6) New buildings, improvements, installations. Any necessary buildings, fixed improvements, or installations to be purchased, installed, or constructed for the purposes of the exploration work, with the estimated cost of each, a schedule of which is included in the estimate of costs in Exhibit "A". All of these items are allowable maximums.

(7) Miscellaneous. Repairs to and maintenance of operating equipment (not including initial rehabilitation or repairs of the Operator's equipment), analytical work, accounting, workmens' compensation and employers' liability insurance and payroll and sales taxes.

(8) Unforeseen. Such other necessary, reasonable direct costs of performing the exploration work, within the limit of the total aggregate estimate of costs, whether or not included in any schedule of costs in Exhibit "A", as may be approved by the Government in the course of the work, as indicated by its approval and payment of invoices and vouchers.

(b) The Government's payments in all cases will be based on actual, necessary costs (including contract unit prices) incurred not in excess of any "allowable maximum," and not in excess of the fixed percentage of the total aggregate estimated cost. Costs will be considered to be incurred only as they are or become due and payable.

(c) No items of general overhead, corporate management, interest, taxes (other than payroll and sales taxes) or any other indirect costs, or work performed or costs incurred before the date of this contract, shall be allowed as costs of the project in which the Government will participate.

ARTICLE 7. Reports, accounts, audits. (a) Progress reports. The Operator shall provide the Government with monthly reports of work performed and costs (including contract unit prices) incurred under the contract, in quintuplicate (five copies), upon forms provided by the Government. These progress reports shall be certified by the Operator,

and shall constitute both the Operator's invoice of costs incurred on the project during the period covered by the report and his voucher for repayment by the Government, unless the Government requires the use of a standard voucher form with invoice attached. Progress reports shall include surface and/or underground engineering-geological maps or sketches showing the progress of the exploration, with assay-reports on samples taken concurrently with the advance in mineralized ground.

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

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

(d) Accounts and audits. The Operator shall keep suitable records and accounts of operations, which the Government may inspect and audit at any time. The Government may at any time require an audit of the Operator's records and accounts by a certified public accountant, the cost thereof to be treated as a cost of the project. The Operator shall keep and preserve said records and accounts for at least 3 years after the completion of the project or the termination of this contract. Upon the completion of the project or termination of the contract the Operator shall render a final account as provided in Article 12.

ARTICLE 8. Payments by the Government. (a) The Government will pay 75 per cent of the allowable costs incurred, as they accrue, in an aggregate total amount not in excess of $ 75,000.00, which is 75 per cent of $ 100,000.00, the agreed, estimated total cost of the project in which the Government will participate; Provided, that until the Operator's final report and final accounting have been rendered to the Government, and any final auditing required by the Government has been made, and a final settlement of the contract has been made, the Government may withhold from the last voucher or vouchers such sums as it sees fit not in excess of ten (10) per cent of the maximum total which the Government might have been called upon to pay under the terms of the contract.

(b) The Government may make any payment or payments direct to independent contractors and to suppliers, for the account of the Operator, rather than to the Operator.

ARTICLE 9. Repayment by Operator. (a) If, at any time, the Government considers that a discovery or a development from which production may be made has resulted from the exploration work, the Government, at any time not later than six months after the Operator has rendered the required final report and final account, may so certify in writing to the Operator. The certification shall describe broadly or indicate the nature of the discovery or development. In the event of such certification, any minerals mined or produced from the land described in Article 2 within ten years from the date of this contract, including any mined or produced before the certification, shall be subject to a percentage royalty which

the Operator or his successor in interest shall pay to the Government, upon the net smelter returns, the net concentrator returns, or other net amounts realized from the sale or other disposition of any such production, in whatever form disposed of, including ore, concentrates, or metal, until the total amount contributed by the Government, without interest, is fully repaid, or said ten years have elapsed, whichever occurs first, as follows:

(1) One and one-half ($1\frac{1}{2}$) per cent of any such net amounts not in excess of eight dollars ($8.00) per tons

(2) One and one-half ($1\frac{1}{2}$) per cent of any such net amounts, plus one-half ($\frac{1}{2}$) per cent of such net amounts for each additional full fifty cents ($0.50) by which such net amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) per cent of such net amounts.

(For instance: the percentage royalty on a net amount of five dollars ($5.00) per ton, would be one and one-half ($1\frac{1}{2}$) per cent; on a net amount of ten dollars ($10.00) per ton, three and one-half ($3\frac{1}{2}$) percent.)

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

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

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

ARTICLE 10. Assignment, transfer, or loss of Operator's interest. Without the written consent of the Government, the Operator shall not assign or otherwise transfer or hypothecate this contract or any rights thereunder. The Operator shall not make any voluntary nor permit any involuntary transfer or conveyance of the Operator's rights in the land described in Article 2, without making suitable provision for the preservation of the Government's right to a percentage royalty on production and lien for the payment thereof; Provided, that mere failure by the Operator to maintain the Operator's rights in the land, without any consideration running to the Operator other than relief from the cost of maintaining such rights (as by surrender of a leasehold, failure to perform assessment work, or failure to exercise an option), coupled with complete abandonment by the Operator of all interest in or operations on the land for a period of ten years from the date of this contract, shall not constitute such a transfer or conveyance. Should the Operator make or permit any transfer or conveyance in violation of this provision, the Operator shall be and remain liable for payment to the Government of the same amounts, at the same times, as would have been paid under the terms of the percentage royalty on production. If for any

reason the net smelter returns, net concentrator returns, or other net amounts realized from the sale or other disposition of such production are not available as a means of measuring the amount of the Operator's liability, the amount thereof shall be estimated as well as may be, and in the event of dispute as to such estimates, the determination thereof by the Administrator of Defense Minerals Exploration Administration or by his successor shall be final and binding upon the Operator.

ARTICLE 11. Title to and disposition of property. All facilities, buildings, fixtures, equipment, or other items costing more than $50.00 each, paid for or purchased with funds contributed jointly by the Operator and the Government, although title may be taken in the name of the Operator, shall belong to the Operator and the Government jointly, in proportion to their respective contributions, and upon the completion of the work or the termination of the contract shall be disposed of promptly by the Operator for the joint account of the Government and the Operator, either by return to the vendor, by sale to others, or purchase by the Operator at a price at least as high as could otherwise be obtained, as may appear to be for the best interest of the Government, unless the Government, in writing, waives its interest in any such item. If necessary to accomplish such disposition, the Operator shall dismantle, sever from the land, and remove any such item, the cost thereof to be for the joint account of the parties in proportion to their respective interests. If the Operator, within 90 days after the receipt of written notice from the Government, fails, neglects, or refuses to dispose of such property, the Government may itself enter upon the land, take possession of, and remove and dispose of any such property as above provided.

ARTICLE 12. Termination and completion. The Government may, at any time, by written notice to the Operator, terminate this contract: (a) If the Operator fails to provide his share of the money necessary to prosecute operations pursuant to the terms of the contract; (b) if the Operator, in the opinion of the Government, fails to prosecute operations pursuant to the terms of the contract; or (c) if in the opinion of the Government, operations up to the time of the notice have not indicated the probability of making any worthwhile discovery and in the opinion of the Government further operations are not justified. Upon the completion of the project or any termination of the contract the Operator shall dispose of any remaining materials, supplies, facilities, buildings, fixtures, and equipment in which the Government has an interest, for the joint account of the Operator and the Government in the proportion of their respective interests; shall render to the Government a full and final accounting of his operations under the contract and his expenditures of money; and shall pay to the Government its prorata share of any money remaining.

ARTICLE 13. Changes and added provisions. _____

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

Inland Mining Corporation
Operator

By Cecil B. Chenoweth

By C. O. Mittendorf
Acting Administrator, Defense
Minerals Exploration Administration

I, S. A. Wier, certify that I am the secretary of the corporation named as operator herein; that Cecil B. Chenoweth who signed this contract on behalf of the operator, was then Vice-President of said corporation; that said contract was duly signed for and in behalf of said corporation by authority of its governing body, and is within the scope of its corporate powers.

S. A. Wier [Corporate Seal]

16042

APPENDIX "A"

DMEA-2299

Description of the Property

One hundred and sixty-seven (167) unpatented mining claims being composed of the following: The "Gold Bug Group" of six (6) claims; the Smoke Rock Group" of four (4) claims; claims numbered 26, 27, 28 and 29 of the "American Group" of twenty-nine (29) claims; the "Sugartree Group" of fifteen (15) claims; the "Caddo Group" of eight (8) claims; the "Austin Group" of twenty-five (25) claims; the "Cossatat Group" of sixteen (16) claims; the "Sugarstick Group" of six (6) claims; the "Short Creek Group" of thirty (30) and the "Moody Group" of fifty-three (53) claims, all lying, being and situated in Townships 3 and 4 South; Ranges 29 and 30 West, in Polk County, Arkansas, all as shown on the two maps entitled "Property location map No. I", and "Property location map No. 2" attached hereto and made a part thereof.

Section 2(b)

2(b) The Operator is the lessee, in possession and entitled to possession of the following claims, which are hereinabove described; the subordination agreements of the lessor being hereto attached.

EXPLORATION PROJECT CONTRACT
INLAND MINING CORPORATION
DOCKET NO. DMEA-2299

EXHIBIT "A"

Statement of the Work (see note, page 4)

The Operator is to investigate, by surface exploration, the extent and metal content of certain manganese occurrences on 167 unpatented lode mining claims in Polk County, Arkansas.

The manganese occurs as an oxide filling and replacement at and below the contact of the lower and middle members of the Arkansas Novaculite. The exploration will be concentrated in areas where the formations have been fractured or complexly folded and where they lie at or near the existing land surface.

Of six (6) sites for exploration indicated on the attached maps, only four (4) will be included in operations under this contract. These are shown herein under "Stage I", and consist of "projects" numbered 1 to 6 inclusive.

"Stage II" has been established to cover additional "projects" which must be submitted by the Operator to the Executive Officer of the DMEA Field Team for approval. The projects are to be drawn up in like form and manner, including competent maps, to the six (6) projects hereinafter enumerated under "Stage I". The Operator shall obtain the written consent of the Government as represented by the Executive Officer of the DMEA Field Team for "Stage II", prior to commencing work thereon.

Stage I

Project I

Site 1, Sugartree Group

(See attached Plate I, for location and layout of work)

Time Schedule: (Working days) 0 - 7

(A) Bulldoze approximately 600 lineal feet of cross-trenches located approximately as shown on Plate I, the trenches to be approximately 12 feet wide, to a depth sufficient to expose ore in place, or to the limit of the ability of the equipment (estimated depth, 2 to 8 feet).

Time Schedule: (Working days) 7 - 14

(B) Sample, by wagon drill, approximately 25 holes, at points to be selected within the areas exposed under (A) above. These holes are to be vertical and from 10 to 25 feet deep, averaging 15 feet, for a total of 375 lineal feet. The holes are to be drilled dry and the dust therefrom collected for sampling purposes, an estimated 75 samples being taken.

Time Schedule: (Working days) 14 - 22

(C) Excavate an estimated 300 lineal feet of trench, by jackhammer drilling and blasting, longitudinally in the center of the bulldozer cross-trenches, described in (A) above. The excavated trench is estimated to be from 2 to 4 feet wide and 4 feet deep as a maximum. The excavated trench is to be sampled by samples cut from the side or bottom thereof, in 10-foot sections. Approximately 30 samples are to be taken.

Project 2

Site 1, Caddo Group

(See attached Plate II, for location and layout of work)

Time Schedule: (Working days) 0 - 7

(A) Bulldoze 8 cross-trenches, totaling approximately 400 lineal feet, located as shown on Plate II, and being approximately 12 feet wide, to a depth sufficient to expose ore in place, or to the limit of the ability of the equipment (estimated depth, 2 to 8 feet).

Time Schedule: (Working days) 7 - 15

(B) Sample the ore horizon, in depth, by wagon drilling approximately 16 holes at points to be selected within the areas exposed under (A) above. These holes are to be vertical and from 10 to 25 feet deep, aggregating an estimated total of 250 feet. The holes are to be drilled dry and the dust therefrom collected for sampling purposes. An estimated 75 samples are to be taken.

Time Schedule: (Working days) 15 - 22

(C) Excavate an estimated 250 lineal feet of trench, by jackhammer drilling and blasting, longitudinally in the center of the bulldozer cross-trenches, described in (A) above. The excavated trench is estimated to be

from 2 to 4 feet wide and 4 feet deep as a maximum. The excavated trench is to be sampled by samples cut from the side or bottom thereof, in 10-foot sections. Approximately 30 samples are to be taken.

Project 3

Site 2, American Group

Project 3 as indicated on Plate III is not a part of this contract.

Project 4

Site 3, American Group

Project 4 as indicated on Plate IV is not a part of this contract.

Project 5

Site 4, American Group

(Excepting that portion lying within claim No. 6)

(See attached Plate IV, for location and layout of work)

Time Schedule: (Working days) 0 - 8

(A) Bulldoze 7 cross-trenches, totaling approximately 500 lineal feet, located as shown on Plate IV, and being approximately 12 feet wide, to a depth sufficient to expose ore in place or to the limit of the equipment (estimated depth, 2 to 8 feet).

Time Schedule: (Working days) 8 - 15

(B) Sample the ore horizon, in depth, by wagon drill. An estimated 25 holes are to be selected at points within the area exposed under (A) above. The holes are to be vertical, and range from 10 to 25 feet in depth, and aggregate an estimated total of 375 feet. The holes are to be drilled dry and the dust therefrom collected for sampling purposes. An estimated 75 samples are to be taken.

Time Schedule: (Working days) 15 - 22

(C) Excavate an estimated 250 lineal feet of trench by jackhammer drilling and blasting, longitudinally

in the center of the bulldozer cross-trenches, described in (A) above. The excavated trench is estimated to be 2 to 4 feet wide and 4 feet deep as a maximum. The excavated trench is to be sampled by samples cut from the side or bottom thereof, in 10-foot sections. Approximately 20 samples are to be taken.

Project 6

Site 5, American Group

(See attached Plate IV, for location and layout of work)

Time Schedule: (Working days) 0- 7

(A) Bulldoze 7 cross-trenches, totaling approximately 400 lineal feet, located as shown on Plate IV, and being approximately 12 feet wide, to a depth sufficient to expose ore in place, or to the limit of the ability of the equipment (estimated depth, 2 to 8 feet).

Time Schedule: (Working days) 7 - 8

(B) Strip, by bulldozing, the alluvium to bedrock along the outcrop for an estimated 100 feet over a width of an estimated 25 feet as shown on Plate IV, for purposes of geological inspection and examination.

Time Schedule: (Working days) 8 - 15

(C) Sample the ore horizon, in depth, by wagon drill. An estimated 20 holes are to be selected at points within the area exposed under (A) and (B) above. The holes are to be vertical and from 10 to 25 feet deep, and aggregate an estimated total of 300 feet. The holes are to be drilled dry and the dust therefrom collected for sampling purposes. An estimated 60 samples are to be taken.

Time Schedule: (Working days) 15 - 22

(D) Excavate an estimated 300 lineal feet of trench by jackhammer drilling and blasting, longitudinally in the center of the bulldozer cross-trenches, described in (A) above. The excavated trench is estimated to be 2 to 4 feet wide and 4 feet deep as a maximum. The excavated trench is to be sampled by samples cut from the side or bottom thereof, in 10-foot sections. Approximately 20 samples are to be taken.

NOTE: Each succeeding stage of the work, both the main stages and the substages indicated by lettered paragraphs, shall be undertaken only if the results of the preceding stage justify the performance of the work under the succeeding stage.

Estimated Cost of Stage I

(1) Independent contracts

None

(2) Labor, supervision, consultants

1 - Tractor operator @$12.00/shift, 55 shifts	$ 660.00
3 - Drill operators @$10.00/shift, 55 shifts	1,650.00
8 - Laborers @$8.00/shift 55 shifts	3,520.00
2 - Samplers @$10.00/shift, 55 shifts	1,100.00
1 - Foreman @$14.00/shift, 55 shifts	770.00
1 - Resident geologist[1] @$400/mo., 3 months	1,200.00
1 - Engineering assistant @$300/mo., 3 months	900.00
1 - Stenographer @$175/mo., 3 months	525.00
1 - Bookkeeper @$200/mo., 3 months	600.00

[1] The resident geologist shall advise the manager regarding daily work and shall be responsible for securing representative samples of the deposit, and for their subsequent handling. He, with his assistant, shall also prepare and keep up-to-date the project maps which shall show the progress of the work, the location of samples taken, including logs of the wagon drill holes, and the analytical results, and shall prepare and transmit copies thereof with the Operator's Monthly Report as required under Section 12 of the exploration contract. The resident geologist shall also make the surveys and maps essential to Step II, at the direction of the consulting geologist.

1 - Consulting geologist[2] @$90 per diem, fee basis (which sum includes all traveling and incidental expenses) for not to exceed 20 days of the first month and 5 days each for the second and third months. Total, for 3 months, 30 days @$90 per diem	$ 2,700.00	
1 - Manager[3] Not to be charged as a cost of the project	- - -	
Compensation, OAB, FUI, estimated at 10%	1,175.00	$14,800.00*

(3) Operating material and supplies

Diesel fuel @$24 per day, $528 per month for 2-1/2 months	1,320.00
Gasoline (jeep and truck), $60 per month for 3 months	180.00
Lubricating oil, compressor oil, drilling machine oil, and greases, $80 per month, for 3 months	240.00
Powder, caps and fuse, estimated at $75 per project, or $150 per month, for 2-1/2 months	375.00

2/ The consulting geologist shall examine the progress of the exploration from a geological standpoint, direct the resident geologist in the maintenance of the project maps, select new projects sites and direct the mapping thereof. He shall prepare a report on the geological phases of the work done under Stage I and help prepare the data pertinent to Stage II, with the assistance of the resident geologist and manager.

3/ The manager shall be in full charge of the work and have full responsibility therefor.

Assaying[4] (including sample sacks and transportation), estimated at	$ 2,500.00	
Drilling bits, estimated at 30¢ per foot of hole drilled (1500 feet per month), $450 per month for 3 months	1,350.00	
Drill steel, hose, line-oilers, and other accessory drilling supplies, estimated at	1,000.00	
Tires and tubes (jeep and truck) estimated at	150.00	
Office supplies and blueprinting estimated at	300.00	
Hand tools, wrenches, shovels, loading sticks, etc.	85.00	$ 7,500.00*

(4) Operating Equipment

To be purchased

1 - Jackhammer, new, wet-drilling type		360.00*

To be rented

1 - 250 cfm Jaeger Diesel portable air compressor at $500 per month for 3 months		1,500.00*

To be furnished by the Operator

1 - International "TD24" Crowler-type tractor with bulldozer attachment, value $24,000, depreciation $400 per month for 3 months	1,200.00	
1 - 250 cu. ft. per minute diesel-powered "Jaeger" portable air compressor, value $6,700, depreciation $111.67 per month for 3 months	335.00	

4/ All samples are to be analysed for iron and manganese. A composite sample is to be made from all the samples taken from a single trench, and analysed for iron, manganese, silica, alumina, and phosphorous. A further composite made by compositing five(5) trench composites and is to be analysed for cobalt

1 - "Chicago-Pneumatic" wagon drill complete, value $2,600, depreciation $43.33 per month for 3 months	130.00	
2 - Jackhammers, complete, value $720, depreciation $12 for 3 months	36.00	
1 - "Jeep" pick-up truck, four-wheel drive, with front-mounted winch, value $2,000, depreciation $33.33 per month, for 3 months	100.00	
1 - "Jeep" station wagon, four-wheel drive, value $2,000, depreciation $33.33 per month, for 3 months	100.00	
1 - Chevrolet truck, 1950, one-ton capacity, flat-bed, value $1,000, depreciation $16.67 per month for 3 months	50.00	
All necessary surveying, drafting and office equipment, including transit, calculator, typewriter, etc., value $2,000, depreciation $33.33 per month for 3 months	100.00	$ 2,051.00*

The monthly depreciation allowance is chargeable only for the months in which the Operator's equipment is used for the benefit of the project.

(5) Rehabilitation and repairs

None

(6) New buildings, improvements, installations

None

(7) Miscellaneous5/

Repairs

Repair of equipment, estimated for 3 mos. 789.00*

5/Repair and maintenance items are to be charged against the project only as incurred and spent while the equipment is working on the project. Other requirements listed in Article 6(7) of the contract form, included elsewhere.

TOTAL AMOUNT OF STAGE I	$27,000.00*

Stage II

Stage II will be undertaken only after the completion of Stage I to the satisfaction of and approval by the Government, which approval will be dependent upon the results obtained in Stage I.

All work which may be eligible under Stage II will be composed of such projects as are hereinafter submitted by the Operator to the Executive Officer of the DMEA Field Team.

The Operator shall have the "projects" drawn up in like form and manner, including competent maps, to the six (6) projects enumerated under Stage I.

The Operator shall obtain the written consent of the Government as represented by the Executive Officer of the DMEA Field Team for "Stage II" prior to commencing work on any part thereof.

The total expenditure of Stage II, as may hereinafter be approved by the Government upon acceptance of Stage I, and the acceptance of additional projects as hereinabove provided for, shall not exceed	$73,000.00*
Total estimated cost	$100,000.00
Government participation 75 per cent of the above, or	$ 75,000.00*

* --allowable maximum

No additional buildings, installations, fixtures, equipment or improvements to be purchased, erected, rented, repaired or rehabilitated, except as listed above, are to be allowed as costs under this contract.

Underground and/or surface maps or sketches showing the progress of the exploration, with assays of samples taken concurrently with the advance, where warranted, are to be included in the monthly reports required under Section 12 of the project contract. In case such maps or sketches are not submitted, the Government at its discretion may have

the necessary work performed and charge the same to the contract.

The Operator may, at his own expense, obtain leases or make mining locations upon lands suitable for additional exploration projects and the said lands may become a part of this contract by amendment thereof.

SUBORDINATION AGREEMENT AND CONSENT TO LIEN

****

KNOW ALL MEN BY THESE PRESENTS that:

WHEREAS, the undersigned as Lessor and/or Lessee have an interest in certain mining property in the State of Arkansas, County of Polk, hereinafter called "Property", said property being unpatented lode mining claims located on lands in the public domain; and the interest of the undersigned Lessee in said property, includes the exclusive right to mine the same and take ores and metallic minerals therefrom; and the interest of the undersigned Lessor in said property includes the right to receive rentals and/or royalties on products mined and/or extracted therefrom; and the said property is the subject of a proposed Exploration Project Contract, hereinafter called "Contract", between the United States of America, hereinafter called the "Government", and Inland Mining Corporation, hereinafter called the "Operator"; and

WHEREAS, under certain provisions of said Contract which are set forth on the reverse side hereof, the Government will acquire certain rights and equities which do or may conflict with or be adverse to the interest of the undersigned in said property;

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

1. The Government's equity in and right to remove facilities, buildings, fixtures, and equipment, as provided in the Contract, shall prevail over and be prior and superior to any conflicting or adverse rights of the undersigned.

2. The Government's percentage royalty on net smelter returns or other net proceeds realized from ore, concentrates, or metal produced within ten (10) years from the date of the Contract, and the Government's lien for the payment of said percentage royalty shall attach to the mineral deposit and the production therefrom, in the amount of the Government's contribution, not in excess of $75,000.00, all upon the terms and conditions set forth in said Contract.

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

Dated this 24th day of March, 1952.

LESSEE: INLAND MINING CORPORATION

By E S Heyser Jr
~~Vice~~-President

LESSOR:

Austin Weir
E V Jenson Jr
Edward Munns
E S Heyser Jr
Claude E Stead
Mary Claire Heyser
John A Page
Joel W Sadler
Morgan L Pennington
Cecil B Rhenovath

No. 2299X

RELEVANT CONTRACT PROVISIONS

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

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

> Of net smelter returns or other net proceeds not in excess of eight dollars ($8.00) per ton of ore: One and one-half ($1\frac{1}{2}$) percent.
>
> Of net smelter returns or other net proceeds in excess of eight dollars ($8.00) per ton of ore: One and one-half ($1\frac{1}{2}$) percent, plus one-half ($\frac{1}{2}$) percent for each additional full fifty cents ($0.50) in excess of eight dollars ($8.00) per ton of ore, but not in excess of a maximum of five (5) percent.

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

CERTIFICATE

BE IT KNOWN THAT:

1. WHEREAS, heretofore, to-wit: On April 23, 1951, a certain MINING LEASE was made and executed by Inland Mining Corporation, as Lessee, and twelve individuals, as Lessors, under and by virtue of which Mining Lease the said lessee was given the exclusive right to mine, for manganese and other metallic ores, all of the mining property and claims described in said lease, subject to the terms and provisions thereof, for a period of 50 years; and

2. WHEREAS, two of the original lessors signatory to said Mining Lease, to-wit: A. P. Simons and David P. Stephenson, have since the making of said Mining Lease transferred, sold, assigned and delivered over to others of the original lessors signatory to said instrument, all and sundry the rights of the said two named individual original lessors in the subject matter of said lease, so that they, the said two named original lessors now have no interest whatsoever therein, of which fact the lessee, Inland Mining Corporation, has been given evidence and due notice;

3. WHEREFORE, the undersigned, as Secretary of Inland Mining Corporation, Lessee, certifies that the said Corporation now recognizes the Lessors in said Mining Lease to be ten in number (and no more), and that their names are as follows, to-wit: Estill S. Heyser, Jr., Mrs. Estill S. Heyser, Sr., Cecil B. Chenoweth, S. Austin Wier, Claude E. Heard, W. C. Jackson, Jr., Morgan G. Huntington, John A. Pace, Joel W. Haden, and Edward Marcus ; and that Mrs. Estill S. Heyser, Sr., a widow now and at the time of the making of said Mining Lease, is the same person as Mary Claire Heyser, by which name she is also known.

MADE AND DATED AT DALIAS, TEXAS, this 13th day of March, 1952.

Secretary of Inland Mining Corporation.

SUBORDINATION AGREEMENT AND CONSENT TO LIEN

****

KNOW ALL MEN BY THESE PRESENTS that:

WHEREAS, the "Undersigned" (as claimant, owner, co-owner, assignor or seller) have an interest in certain mining property in the State of Arkansas, County of Polk, hereinafter called "Property", said property being unpatented lode mining claims located on lands in the public domain; and the interest of the undersigned in said property includes the right to receive rentals and/or royalties on products mined and/or extracted therefrom; and the said property is the subject of a proposed Exploration Project Contract, hereinafter called "Contract", between the United States of America, hereinafter called the "Government", and Inland Mining Corporation, hereinafter called the "Operator"; and

WHEREAS, under certain provisions of said Contract which are set forth on the reverse side hereof, the Government will acquire certain rights and equities which do or may conflict with or be adverse to the interest of the undersigned in said property;

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

1. The Government's equity in and right to remove facilities, buildings, fixtures, and equipment, as provided in the Contract, shall prevail over and be prior and superior to any conflicting or adverse rights of the undersigned.

2. The Government's percentage royalty on net smelter returns or other net proceeds realized from ore, concentrates, or metal produced within ten (10) years from the date of the Contract, and the Government's lien for the payment of said percentage royalty shall attach to the mineral deposit and the production therefrom, in the amount of the Government's contribution, not in excess of $75,000.00, all upon the terms and conditions set forth in said Contract.

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

DATED this 20th day of March, 1952; and
EXECUTED by the "Undersigned" as claimant, owner, co-owner, assignor or seller, thus:

W D Ashcraft W. D. Ashcraft	Isom Avants Isom Avants
Luke Lawrence. Luke Lawrence	J. L. Lawrence Jr. J. L. Lawrence Jr.

No. 2299X-A-10919

RELEVANT CONTRACT PROVISIONS

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

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

Of net smelter returns or other net proceeds not in excess of eight dollars ($8.00) per ton of ore: One and one-half ($1\frac{1}{2}$) percent.

Of net smelter returns or other net proceeds in excess of eight dollars ($8.00) per ton of ore: One and one-half ($1\frac{1}{2}$) percent, plus one-half ($\frac{1}{2}$) percent for each additional full fifty cents ($0.50) in excess of eight dollars ($8.00) per ton of ore, but not in excess of a maximum of five (5) percent.

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

SUBORDINATION AGREEMENT AND CONSENT TO LIEN

****

KNOW ALL MEN BY THESE PRESENTS that:

WHEREAS, the "Undersigned" (as claimant, owner, co-owner, assignor or seller) have an interest in certain mining property in the State of Arkansas, County of Polk, hereinafter called "Property", said property being unpatented lode mining claims located on lands in the public domain; and the interest of the undersigned in said property includes the right to receive rentals and/or royalties on products mined and/or extracted therefrom; and the said property is the subject of a proposed Exploration Project Contract, hereinafter called "Contract", between the United States of America, hereinafter called the "Government", and Inland Mining Corporation, hereinafter called the "Operator"; and

WHEREAS, under certain provisions of said Contract which are set forth on the reverse side hereof, the Government will acquire certain rights and equities which do or may conflict with or be adverse to the interest of the undersigned in said property;

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

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

DATED this 20th day of March, 1952; and
EXECUTED by the "Undersigned" as claimant, owner, co-owner, assignor or seller, thus:

J. R. Wood

Lola V. Wood

Loraine Burnett

No. 2299X-A-10919

RELEVANT CONTRACT PROVISIONS

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Of net smelter returns or other net proceeds not in excess of eight dollars ($8.00) per ton of ore: One and one-half ($1\frac{1}{2}$) percent.

Of net smelter returns or other net proceeds in excess of eight dollars ($8.00) per ton of ore: One and one-half ($1\frac{1}{2}$) percent, plus one-half ($\frac{1}{2}$) percent for each additional full fifty cents ($0.50) in excess of eight dollars ($8.00) per ton of ore, but not in excess of a maximum of five (5) percent.

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

SUBORDINATION AGREEMENT AND CONSENT TO LIEN

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WHEREAS, under certain provisions of said Contract which are set forth on the reverse side hereof, the Government will acquire certain rights and equities which do or may conflict with or be adverse to the interest of the undersigned in said property;

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

1. The Government's equity in and right to remove facilities, buildings, fixtures, and equipment, as provided in the Contract, shall prevail over and be prior and superior to any conflicting or adverse rights of the undersigned.

2. The Government's percentage royalty on net smelter returns or other net proceeds realized from ore, concentrates, or metal produced within ten (10) years from the date of the Contract, and the Government's lien for the payment of said percentage royalty shall attach to the mineral deposit and the production therefrom, in the amount of the Government's contribution, not in excess of $75,000.00, all upon the terms and conditions set forth in said Contract.

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

Dated this 14th day of March, 1952.

LESSEE: INLAND MINING CORPORATION

By [illegible]
Vice-President

LESSOR: GEORGETOWN MINES AND LEASES, LTD.

By Cecil B. Schenowith
Managing Partner

No.2299X

RELEVANT CONTRACT PROVISIONS

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

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

> Of net smelter returns or other net proceeds not in excess of eight dollars ($8.00) per ton of ore: One and one-half ($1\frac{1}{2}$) percent.
>
> Of net smelter returns or other net proceeds in excess of eight dollars ($8.00) per ton of ore: One and one-half ($1\frac{1}{2}$) percent, plus one-half ($\frac{1}{2}$) percent for each additional full fifty cents ($0.50) in excess of eight dollars ($8.00) per ton of ore, but not in excess of a maximum of five (5) percent.

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

CERTIFICATE

BE IT KNOWN THAT:

1. WHEREAS, heretofore, to-wit: On April 23, 1951, a certain MINING LEASE was made and executed by Inland Mining Corporation, as Lessee, and twelve individuals, as Lessors, under and by virtue of which Mining Lease the said lessee was given the exclusive right to mine, for manganese and other metallic ores, all of the mining property and claims described in said lease, subject to the terms and provisions thereof, for a period of 50 years; and

2. WHEREAS, two of the original lessors signatory to said Mining Lease, to-wit: A. P. Simons and David P. Stephenson, have since the making of said Mining Lease transferred, sold, assigned and delivered over to others of the original lessors signatory to said instrument, all and sundry the rights of the said two named individual original lessors in the subject matter of said lease, so that they, the said two named original lessors now have no interest whatsoever therein, of which fact the lessee, Inland Mining Corporation, has been given evidence and due notice;

3. WHEREFORE, the undersigned, as Secretary of Inland Mining Corporation, Lessee, certifies that the said Corporation now recognizes the Lessors in said Mining Lease to be ten in number (and no more), and that their names are as follows, to-wit: Estill S. Heyser, Jr., Mrs. Estill S. Heyser, Sr., Cecil B. Chenoweth, S. Austin Wier, Claude E. Heard, W. C. Jackson, Jr., Morgan G. Huntington, John A. Pace, Joel W. Haden, and Edward Marcus ;and that Mrs. Estill S. Heyser, Sr., a widow now and at the time of the making of said Mining Lease, is the same person as Mary Claire Heyser, by which name she is also known.

MADE AND DATED AT DALLAS, TEXAS, this 13th day of March, 1952.

Secretary of Inland Mining Corporation.

ASSIGNMENT AND DEED

POLK COUNTY, ARKANSAS

MANGANESE VENTURE

STATE OF TEXAS
COUNTY OF BEXAR

BE IT KNOWN THAT whereas, heretofore, I, the undersigned Assignor and Grantor, did acquire a six per cent (6%) undivided interest at a cost of Sixteen Thousand Seven Hundred Fifty-Two and 96/100 - - ($16,752.96) - - Dollars, in a joint venture whereunder certain mining claims and leases were acquired and to be acquired in Polk County, Arkansas, and

WHEREAS, it is the desire of the undersigned to grant, bargain, sell and convey the entire amount of my said interest and all of my rights in such venture, leases and claims:

NOW, THEREFORE, for and in consideration of the sum of Twelve Hundred Ninety-Four and 08/100 - - ($1,294.08) - - Dollars, to me in hand paid, the receipt whereof is specifically acknowledged, and other good and sufficient considerations, I, the undersigned, hereby GRANT, BARGAIN, SELL and CONVEY unto W. C. JACKSON, JR., of Dallas, Texas, Assignee and Grantee herein, all mineral rights, reservations and leases and all mining claims and interests therein, whether patented or not, owned or claimed by me in Polk County, Arkansas, particularly including all my right and interest in and to those unpatented mining claims described in Exhibit "A", which is attached hereto and made a part hereof.

TO HAVE AND TO HOLD the same unto the said Assignee and Grantee, his heirs and assigns, forever.

WITNESS MY HAND AND SEAL on this 14th day of March, A. D., 1952.

R. P. Stifler

ASSIGNOR AND GRANTOR

EXHIBIT "A"

(1) Option and lease from American Manganese Company, Inc., on 25 claims, subject to delay rentals of $1,000.00 per month beginning July 1, 1951, and subject to original one-eighth (1/8) royalty with minimum royalty of $1,000.00 per month after beginning mining operations on these claims, recorded in Vol. G, pps. 123-126.

(2) 31 claims assigned by Morgan G. Huntington et ux, recorded in Vol. G, pps. 144-146.

(3) 10 claims, 1-10 of Cossatott Lode, assigned by J. R. Wood, et al, subject to original royalty of seven cents (7¢) per ton of crude ore, payable as mined, recorded in Vol. G, pps. 136-137.

(4) 1 claim, 1 of Short Creek Lode, assigned by J. R. Wood, recorded in Vol. G, pps. 137-138.

(5) 10 claims, 2-11, of Short Creek Lode, located by S. Austin Wier, recorded in Vol. H, pps. 444-448.

(6) 2 claims, 1 and 2, of Smoke Rock Lode, assigned by W. D. Ashcraft and Isom Avants, subject to annual delay rentals of $200.00 and subject to original royalty of seven cents (7¢) per ton of crude ore, payable as mined, with minimum annual royalty of $200.00 after beginning mining operations on these claims, recorded in Vol. G, pps. 143-144.

(7) 19 claims, 12-30, of Short Creek Lode, located by S. Austin Wier, recorded in Vol. H, pps. 456-458 and 476-483.

(8) 5 claims, 11-15, of Cossatott Lode, located by S. Austin Wier, recorded in Vol. H, pps. 456-460.

Each claim represents an unpatented Lode Mining claim covering approximately 20 acres of land; and the volume and page references above indicate the Mining Records of Polk County, Arkansas, as kept by the Official Recorder.

STATE OF TEXAS }
COUNTY OF BEXAR }

On this day came before me, a notary public duly commissioned and acting within and for said county and State, D. P. STEPHENSON, to me well known as the grantor in the foregoing deed, and stated that he had executed the same for the consideration and purposes therein mentioned and set forth.

WITNESS MY HAND AND OFFICIAL SEAL On this 14th day of March, A. D., 1952.

NOTARY PUBLIC IN AND FOR
COUNTY AND STATE AFORESAID

NOTARY PUBLIC
COUNTY OF BEXAR, TEXAS

E. G. HENDRIX
Notary Public Bexar C[illegible]

STATE OF TEXAS)
)
COUNTY OF DALLAS)

POLK COUNTY ARKANSAS MANGANESE
VENTURE

ASSIGNMENT AND DEED

BE IT KNOWN THAT whereas, heretofore, I, the undersigned Assignor and Grantor, did acquire a six per cent (6%) undivided interest at a cost of Sixteen Thousand Seven Hundred Fifty-Two and 96/100 - - ($16,752.96) - - Dollars, in a joint venture whereunder certain mining claims and leases were acquired and to be acquired in Polk County, Arkansas, and

WHEREAS, it is the desire of the undersigned to grant, bargain, sell and convey the entire amount of my said interest and all of my rights in such venture, leases and claims:

NOW, THEREFORE, for and in consideration of the sum of Twelve Hundred Ninety-Four and 08/100 - ($1,294.08) - Dollars, to me in hand paid, the receipt whereof is specifically acknowledged, and other good and sufficient considerations, I, the undersigned, hereby GRANT, BARGAIN, SELL and CONVEY unto W. C. Jackson, Jr., of Dallas, Texas, Assignee and Grantee herein, all mineral rights, reservations and leases and all mining claims and interests therein, whether patented or not, owned or claimed by me in Polk County, Arkansas, particularly including all my right and interest in and to those unpatented mining claims described in Exhibit "A", which is attached hereto and made a part hereof.

TO HAVE AND TO HOLD the same unto the said Assignee and Grantee, his heirs and assigns, forever.

WITNESS MY HAND AND SEAL on this 3rd day of March, A. D., 1952.

ASSIGNOR AND GRANTOR

EXHIBIT "A"

(1) Option and lease from American Manganese Company, Inc. on 25 claims, subject to delay rentals of $1000.00 per month beginning July 1, 1951, and subject to original one-eighth (1/8) royalty with minimum royalty of $1000.00 per month after beginning mining operations on these claims, recorded in Vol. G, pps. 123-126.

(2) 31 claims assigned by Morgan G. Huntington et ux, recorded in Vol. G, pps. 144-146.

(3) 10 claims, 1-10 of Cossatott Lode, assigned by Jr. R. Wood, et al, subject to original royalty of seven cents (7¢) per ton of crude ore, payable as mined, recorded In Vol. G, pps. 136-137.

(4) 1 claim, 1 of Short Creek Lode, assigned by J. R. Wood, recorded in Vol. G, pps. 137-138.

(5) 10 claims, 2-11 of Short Creek Lode, located by S. Austin Wier, recorded in Vol. H, pps. 444-448.

(6) 2 claims 1 & 2 of Smoke Rock Lode, assigned by W. D. Ashcraft and Isom Avants, subject to annual delay rentals of $200.00 and subject to original royalty of seven cents (7¢) per ton of crude ore, payable as mined, with minimum annual royalty of $200.00 after beginning mining operations on these claims, recorded in Vol. G, pps. 143-144.

(7) 19 Claims, 12-30 of Short Creek Lode, located by S. Austin Wier, recorded in Vol. H, pps. 456-458 and 476-483.

(8) 5 claims, 11-15 of Cossatott Lode, located by S. Austin Wier, recorded in Vol. H, pps. 458-460.

Each claim represents an unpatented Lode Mining claim covering approximately 20 acres of land; and the volume and page references above indicate the Mining Records of Polk County, Arkansas, as kept by the Official Recorder.

STATE OF)
)
COUNTY OF)

On this day came before me, a notary public duly commissioned and acting within and for said county and State, A. P. Simons, to me well known as the grantor in the foregoing deed, and stated that he had executed the same for the consideration and purposes therein mentioned and set forth.

WITNESS MY HAND AND OFFICIAL SEAL on this 3rd day of March, A. D. 1952.

Marion Cochier
Notary Public in and for County and State Aforesaid.

ASSIGNMENT

KNOW ALL MEN BY THESE PRESENTS:

That I, S. A. WIER, locator and claimant of two (2) mining claims in Polk County, Arkansas, located on February 7, 1952, and described as follows, to-wit:

Claim No. 28, situated in Section 35, Township 3 S, Range 30 W, filed for record on February 20, 1952, and duly recorded in Record Book G, Page 228, in the Office of the County Recorder of Polk County, Arkansas.

Claim No. 29, situated in Section 34, Township 3 S, Range 30 W, filed for record on February 20, 1952, and duly recorded in Record Book G, Pages 228-229 in the Office of the County Recorder of Polk County, Arkansas.

For and in consideration of the sum of One Dollar ($1.00) , cash in hand to me paid (the receipt of which is hereby acknowledged) and other good and valuable consideration, do hereby grant, sell and quitclaim all of my right, title and interest in and to those certain two (2) mining claims hereinabove described, to CHENOWETH MINES AND METALS, LIMITED, a limited partnership, and unto the assigns and successors thereof and unto the heirs and assigns of the members of said partnership;

TO HAVE AND TO HOLD the same unto the said Chenoweth Mines and Metals, Limited, and unto the assigns and successors thereof and unto the heirs and assigns of the members of said partnership forever with all appurtenances thereunto belonging.

WITNESS MY HAND AND SEAL, this 22nd day of February, A. D. 1952.

S. A. Wier

S. A. Wier

ACKNOWLEDGMENT

STATE OF TEXAS)

COUNTY OF DALLAS)

On this day personally appeared before the undersigned, a Notary Public in and for the County and State aforesaid, duly qualified and acting, S. A. WIER, to me well known to be the person whose name appears as grantor in the foregoing instrument, and stated that he had executed the same for the consideration, use and purposes therein mentioned and set forth.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 22nd day of February, A. D. 1952.

Gene H. Dysert

Gene H. Dysert, Notary Public in and for County and State Aforesaid.

My commission expires on June 1, 1953.

CERTIFICATE OF RECORD

STATE OF ARKANSAS,
COUNTY OF POLK } ss.

I, MRS. M. M. MARTIN, Circuit Clerk and Ex-Officio Recorder for the County aforesaid, do hereby certify that the annexed and foregoing instrument of writing was filed for record in my office on the 19th day of March, 19 52, A. D., at 1:00 o'clock P. M., and the same is now duly recorded with the acknowledgements and certificates thereon, in Vol. "G" of the Mining Records, Page 231.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of said court this 19th day of March, 19 52.

Mrs M M Martin
Circuit Clerk and Ex-Officio Recorder.

By ....., D. C.

STARCO PRINT, MENA, ARK.

American Group

ASSIGNMENT

KNOW ALL MEN BY THESE PRESENTS:

THAT I, S. AUSTIN WIER, Assignee of the mining claims in Polk county, Arkansas, described in the attached Exhibits numbered 1 to 17, inclusive, which are made a part hereof, for and in consideration of the sum of One and no/100 ($1.00) Dollars, cash in hand to me paid (the receipt of which is hereby acknowledged) and other good and valuable consideration, do hereby grant, sell and quitclaim all of my right, title and interest in and to those certain eighty-eight (88) mining claims, described in said Exhibits Numbered 1to 17 inclusive, to CHENOWETH MINES AND METALS, LIMITED, a limited partnership, and unto the assigns and successors thereof and unto the heirs and assigns of the members of said partnership;

TO HAVE AND TO HOLD the same unto the said Chenoweth Mines and Metals, Limited, and unto the assigns and successors thereof and unto the heirs and assigns of the members of said partnership forever with all appurtenances thereunto belonging.

PROVIDED that when and if such claims are worked by the said Chenoweth Mines and Metals Limited, or by the assigns or successors thereof or by the heirs or assigns of the members of said partnership, that there shall be paid to the respective assignors who did execute the several assignments set forth in the attached Exhibits 1 to 17 inclusive, as royalty, the sum of seven cents ($.07) per ton for all raw maganese ore removed from the said claims for milling or marketing, as required by the said several assignments, dated July 10, 1951, copies of which assignments constitute said Exhibits 1 to 17 inclusive.

WITNESS MY HAND AND SEAL, this 21st day of July, A.D. 1951.

S. Austin Wier
S. Austin Wier

ACKNOWLEDGMENT

STATE OF TEXAS
COUNTY OF DALLAS

On this day personally appeared before the undersigned, a Notary Public in and for the County and State aforesaid, duly qualified and acting, S. AUSTIN WIER, to me well known to be the person whose name appears as grantor in the foregoing instrument, and stated that he had executed the same for the consideration, use and purposes therein mentioned and set forth.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 8th day of August, 1951.

SEAL

My Commission expires:
June 1, 1953

Gene H. Dysert
Gene H. Dysert
Notary Public

ASSIGNMENT EXHIBIT NO. 1

KNOW ALL MEN BY THESE PRESENTS:

THAT I, Luke Lawrence, locator of the mining claims in Polk County, Arkansas, hereinafter described, for and in consideration of the sum of One and no/100 Dollar ($1.00) cash in hand to me paid, (the receipt of which is hereby acknowledged) and other good and valuable consideration hereinafter set out, do hereby grant, bargain, sell, transfer, convey and assign all my right, title, and interest in and to the following mining claims, to S. Austin Wier, and unto his heirs and assigns:

That certain mining claim located in Section 9, Township 4 South, Range 29 West, as recorded on the 25th. day of November, 1950, in Book "H", Page 428 of the mining records of Polk County, Arkansas.

That certain mining claim located in Section 9, Township 4 South, Range 29 West, as recorded on the 25th. day of November, 1950, in Book "H", Page 427, of the mining records of Polk County, Arkansas.

That certain mining claim located in Section 10, Township 4 South, Range 29 West, as recorded on the 25th. day of November, 1950, in Book "H", Page 428, of the mining records of Polk County, Arkansas.

That certain mining claim located in Section 10, Township 4 South, Range 29 West, as recorded on the 25th. day of November, 1950, in Book "H", Page 428, of the mining records of Polk County, Arkansas.

That certain mining claim located in Section 10, Township 4 South, Range 29 West, as recorded on the 1st. day of January, 1951, in Book "H", page 461, of the mining records of Polk County, Arkansas.

That certain mining claim located in Section 10, Township 4 South, Range 29 West, as recorded on the 1st. day of January, 1951, in Book "H", Page 461, of the mining records of Polk County, Arkansas,

That certain mining claim located in Section 10, Township 4 South, Range 29 West, as recorded on the 1st. day of January, 1951, in Book "H", Page 462, of the mining records of Polk County, Arkansas

That certain mining claim located in Section 10, Township 4 South, Range 29 West, as recorded on the 1st. day of January, 1951, in Book "H", Page 462, of the mining records of Polk County, Arkansas.

That certain mining claim located in Section 9, Township 4 South, Range 29 West, as recorded on the 1st. day of January, 1951, in Book "H" Page 463, of the mining records of Polk County, Arkansas.

TO HAVE AND TO HOLD the same unto the said S. Austin Wier and unto his heirs and assigns forever with all appurtenances thereunto belonging; and I further covenant that I will warrant and defend the title to such claims against all persons and claims whatsoever.

Provided that when and if such claims are worked by the said S. Austin Wier, his heirs or assigns, that there shall be paid to the undersigned assignor under this instrument, as royalty, the sum of seven cents ($.07) per ton for all raw manganese ore removed from the above claims for milling or marketing.

WITNESS my hand and seal, this 10th. day of July, 1951.

Luke Lawrence

ASSIGNMENT EXHIBIT NO. 2

KNOW ALL MEN BY THESE PRESENTS:

THAT I, J. L. Lawrence, Jr., locator of the mining claims in Polk County, Arkansas, hereinafter described, for and in consideration of the sum of One and no/100 Dollar ($1.00) cash in hand to me paid, (the receipt of which is hereby acknowledged) and other good and valuable consideration hereinafter set out, do hereby grant, bargain, sell, transfer, convey and assign all my right, title and interest in and to the following mining claims, to S. Austin Wier, and unto his heirs and assigns;

That certain mining claim located in Section 35, (NW of SE) Township 3 South, Range 30 West, as recorded on the 18th. day of December, 1950 in Book "H" page 442 of the mining records of Polk County, Arkansas.

That certain mining claim located in Section 25, Township 3 South, Range 30 West, as recorded on the 25th. day of January, 1951 in book "H", Page 490 of the mining records of Polk County, Arkansas.

That certain mining claim located in Section 25, (NE of SE) Township 3 South, Range 30 West, as recorded on the 29thl day of November, 1950, in Book "H", Page 431 of the mining records of Polk County, Arkansas.

TO HAVE AND TO HOLD the same unto the said S. Austin Wier and unto his heirs and assigns forever with all appurtenances thereunto belonging; and I further covenant that I will warrant and defend the title to such claims against all persons and claims whatsoever.

Provided that when and if such claims are worked by the said S. Austin Wier, his heirs or assigns, that there shall be paid to the undersigned assignor under this instrument, as royalty, the sum of seven cents ($.07) per ton for all raw manganese ore removed from the above claims for milling or marketing.

WITNESS my hand and seal, this 10th. day of July, 1951.

J. L. Lawrence, Jr.

ASSIGNMENT EXHIBIT NO. 3

KNOW ALL MEN BY THESE PRESENTS:

That I, J. L. Lawrence, locator of the mining claims in Polk County, Arkansas, hereinafter described, for and in consideration of the sum of One and no/100 Dollar ($1.00) cash in hand to me paid, (the receipt of which is hereby acknowledged) and other good and valuable consideration hereinafter set out, do hereby grant, bargain, sell, transfer, convey and assign all my right, title and interest in and to the following mining claims, to S. Austin Wier, and unto his heirs and assigns:

That certain mining claim located in Section 36 (NW¼), Township 3 South, Range 30 West, as recorded on the 4th. day of November, 1950, in Book "H", Page 392 of the mining records of Polk County, Arkansas

That certain mining claim located in Section 36, (SW of NW), Township 3 South, Range 30 West, as recorded on the 4th. day of November, 1950, in Book "H", Page 393 of the mining records of Polk County, Arkansas

That certain mining claim located in Section 35, Township 3 South, Range 30 West, as recorded on the 4th. day of November, 1950, in Book "H", Page 395 of the mining records of Polk County, Arkansas

TO HAVE AND TO HOLD the same unto the said S. Austin Wier and unto his heirs and assigns forever with all appurtenances thereunto belonging; and I further covenant that I will warrant and defend the title to such claims against all persons and claims whatsoever.

Provided that when and if such claims are worked by the said S. Austin Wier, his heirs or assigns, that there shall be paid to the undersigned assignor under this instrument, as royalty, the sum of seven cents ($.07) per ton for all raw manganese ore removed from the above claims for milling or marketing.

WITNESS my hand and seal, this 10th. day of July, 1951.

J. L. Lawrence

ASSIGNMENT EXHIBIT NO. 4

KNOW ALL MEN BY THESE PRESENTS:

THAT I, J. L. Lawrence, Jr., locator of the mining claims in Polk County, Arkansas hereinafter described, for and in consideration of the sum of One and no/100 Dollar ($1.00) cash in hand to me paid, (the receipt of which is hereby acknowledged) and other good and valuable consideration hereinafter set out, do hereby grant, bargain, sell, transfer, convey and assign all my right, title and interest in and to the following mining claims, to S. Austin Wier, and unto his heirs and assigns.

That certain mining claim located in Section 1, Township 4 South, Range 30 West, as recorded on the 25th. day of November, 1950, in Book "H", Page 429 of the mining records of Polk County, Arkansas.

That certain mining claim located in Section 1, Township 4 South, Range 30 West, as recorded on the 25th. day of November, 1950, in Book "H", Page 430 of the mining records of Polk County, Arkansas

TO HAVE AND TO HOLD the same unto the said S. Austin Wier and unto his heirs and assigns forever, with all appurtenances thereunto belonging; and I further covenant that I will warrant and defend the title to such claims against all persons and claims whatsoever.

Provided that when and if such claims are worked by the said S. Austin Wier, his heirs or assigns, that there shall be paid to the undersigned assignor under this instrument, as royalty, the sum of seven cents ($.07) per ton for all raw manganese ore removed from the above claims for milling or marketing.

WITNESS my hand and seal, this 10th. day of July, 1951.

J. L. Lawrence, Jr.

ASSIGNMENT EXHIBIT NO. 5

KNOW ALL MEN BY THESE PRESENTS:

THAT I, J. L. Lazrence, Jr., locator of the mining claims in Polk County, Arkansas, hereinafter described, for and in consideration of the sum of One and no/100 Dollar ($1.00) cash in hand to me paid, (the receipt of which is hereby acknowledged) and other good and valuable consideration hereinafter set out, do hereby grant, bargain, sell, transfer, convey and assign all my right, title, and interest in and to the following mining claims, to S. Austin Wier, and unto his heirs and assigns:

That certain claim located in Section 10, Township 4 South, Range 29 West, as recorded on the 17th. day of January, 1951, in Book "H", Page 487, of the mining records of Polk County, Arkansas.

That certain claim located in Section 10, Township 4 South, Range 29 West, as recorded on the 17th. day of January, 1951, in Book "H", Page 487, of the mining records of Polk County, Arkansas.

That certain claim located in Section 10, Township 4 South, Range 29 West, as recorded on the 17th. day of January, 1951, in Book "H", Page 489, of the mining records of Polk County, Arkansas

That certain claim located in Section 10, Township 4 South, Range 29 West, as recorded on the 17th. day of January, 1951, in Book "H" Page 489, of the mining records of Polk County, Arkansas.

TO HAVE AND TO HOLD the same unto the said Austin Wier, and

unto his heirs and assigns forever with all appurtenances thereunto belonging; and I further covenant that I will warrant and defend the title to such claims against all persons and claims whatsoever.

Provided that when and if such claims are worked by the said S. Austin Wier, his heirs or assigns, that there shall be paid to the undersigned assignor under this instrument, as royalty, the sum of seven cents ($.07) per ton for all raw manganese ore removed from the above claims for milling or marketing.

WITNESS my hand and seal, this 10th. day of July, 1951.

J. L. Lawrence, Jr.

ASSIGNMENT EXHIBIT NO. 6

KNOW ALL MEN BY THESE PRESENTS:

THAT I, J. L. LAWRENCE, Jr., locator of the mining claims in Polk County, Arkansas, hereinafter described, for and in consideration of the sum of One and no/100 Dollar ($1.00) cash in hand to me paid, (the receipt of which is hereby acknowledged) and other good and valuable consideration hereinafter set out, do hereby grant, bargain, sell, transfer, convey and assign all my right, title and interest in and to the following mining claims, to S. Austin Wier, and unto his heirs and assigns:

That certain mining claim located in Sec. 14, Township 3 South, Range 30 West, as recorded on the 17th. day of January, 1951, in Book "H", Page 484 of the mining records of Polk County, Arkansas.

That certain mining claim located in Sec. 14, Township 3 South, Range 30 West, as recorded on the 17th. day of January, 1951, in Book "H", Page 485 of the mining records of Polk County, Arkansas.

TO HAVE AND TO HOLD the same unto the said S. Austin Wier and unto his heirs and assigns forever with all appurtenances thereunto belonging; and I further covenant that I will warrant and defend the title to such claims against all persons and claims whatsoever.

Provided that when and if such claims are worked by the said S. Austin Wier, his heirs or assigns, that there shall be paid to the undersigned assignor under this instrument, as royalty, the sum of seven cents ($.07) per ton for all raw manganese ore removed from the above claims for milling or marketing.

WITNESS my hand and seal, this 10th. day of July, 1951.

J. L. Lawrence, Jr.

ASSIGNMENT EXHIBIT NO. 7

KNOW ALL MEN BY THESE PRESENTS:

THAT I, Luke Lawrence, locator of the mining claims in Polk County, Arkansas, hereinafter described, for and in consideration of the sum of One and no/100 dollar ($1.00) cash in hand to me paid, (the receipt of which is hereby acknowledged) and other good and valuable consideration hereinafter set out, do hereby grant, bargain, sell, transfer, convey and assign all my right, title and interest in and to the following claims, to S. Austin Wier, and unto his heirs and assigns:

That certain mining claim located in Section 1, Township 4 South, Range 30 West, as recorded on the 25th. day of November, 1950, in Book "H", Page 431 of the mining records of Polk County, Arkansas.

TO HAVE AND TO HOLD the same unto the said S. Austin Wier and

unto his heirs and assigns forever with all appurtenances thereunto belonging; and I further covenant that I will warrant and defend the title to such claim against all persons and claims whatsoever.

Provided that when and if such claim is worked by the said S. Austin Wier, his heirs or assigns, that there shall be paid to the undersigned assignor under this instrument, as royalty, the sum of seven cents ($.07) per ton for all raw manganese ore removed from the above claim for milling or marketing.

WITNESS my hand and seal, this 10th. day of July, 1951.

Luke Lawrence

ASSIGNMENT EXHIBIT NO. 8

KNOW ALL MEN BY THESE PRESENTS:

THAT I, J. R. Wood, locator of the mining claims in Polk County, Arkansas, hereinafter described, for and in consideration of the sum of One and no/100 dollar ($1.00) cash in hand paid, (the receipt of which is hereby acknowledged) and other good and valuable consideration hereinafter set out, do hereby grant, bargain, sell, transfer, convey and assign all my right, title and interest in and to the following mining claims, to S. Austin Wier, and unto his heirs and assigns.

That certain mining claim located in Section 9, Township 4 South, Range 29 West, as recorded on the 1st. day of January 1951, in Book "H", Page 470, of the mining records of Polk County, Arkansas.

That certain mining claim located in Section 9, Township 4 South, Range 29 West, as recorded on ths 1st. day of January 1951, in Book "H", Page 470, of the mining records of Polk County, Arkansas.

That certain mining claim located in Section 9, Township 4 South, Range 29 West, as recorded on the 1st. day of January 1951, in Book "H", Page 471, of the mining records of Polk County, Arkansas.

That certain mining claim located in Section 10, Township 4 South, Range 29 West, as recorded on the 17th. day of January, 1951, in Book "H", Page 486, of the mining records of Polk County, Arkansas.

That certain mining claim located in Section 10, Township 4 South, Range 29 West, as recorded on the 17th. day of January 1951, in Book "H" Page 488, of the mining records of Polk County, Arkansas.

That certain mining claim located in Section 10, Township 4 South, Range 29 West, as recorded on the 17th. day of January 1951, in Book "H", Page 488, of the mining records of Polk County, Arkansas.

TO HAVE AND TO HOLD the same unto the said S. Austin Wier and unto his heirs and assigns forever with all appurtenances thereunto belonging; and I further covenant that I will warrant and defend the title to such claims against all persons and claims whatsoever.

Provided that when and if such claims are worked by the said S. Austin Wier, his heirs or assigns, that there shall be paid to the undersigned assignor under this instrument, as royalty, the sum of seven cents ($.07) per ton for all raw manganese ore removed from the above claims for milling or marketing.

WITNESS my hand and seal, this 10th. day of July, 1951.

J. R. Wood

ASSIGNMENT EXHIBIT NO. 9

KNOW ALL MEN BY THESE PRESENTS:

THAT I, J. R. Wood, locator of the mining claims in Polk County, Arkansas, hereinafter described, for and in consideration of the sum of One and no/100 dollar ($1.00) cash in hand to me paid, (the receipt of which is hereby acknowledged) and other good and valuable consideration hereinafter set out, do hereby grant, bargain, sell, transfer, convey and assign all my right, title and interest in and to the following mining claims, to S. Austin Wier, and unto his heirs and assigns:

That certain mining claim located in Section 9 & 10, Township 4 South, Range 29 West, as recorded on the 1st. day of August, 1951, in Book "H", Page 568 of the mining records of Polk County.

That certain mining claim located in Section 9, Township 4 south, Range 29 West, as recorded on the 1st. day of August, 1951, in Book "H", Page 569 of the mining records of Polk County, Arkansas.

That certain mining claim located in Section 9, Township 4 South, Range 29 West, as recorded on the 1st. day of August, 1951, in Book "H", Page 569 of the mining records of Polk County, Arkansas.

That certain mining claim located in Section 16, Township 4 South, Range 29 West, as recorded on the 1st. day of August, 1951, in Book "H", Page 570 of the mining records of Polk County, Arkansas.

That certain mining claim located in Section 16, Township 4 South, Range 29 West, as recorded on the 1st. day of August, 1951, in Book "H", Page 570 of the mining records of Polk County, Arkansas.

That certain mining claim located in Section 15 & 16, Township 4 South, Range 29 West, as recorded on the 1st. day of August, 1951, in Book "H", Page 571 of the mining records of Polk County, Arkansas.

That certain mining claim located in Section 15, Township 4 South, Range 29 West, as recorded on the 1st. day of August, 1951, in Book "H", Page 571 of the mining records of Polk County, Arkansas.

That certain mining claim located in Section 15, Township 4 South, Range 29 West, as recorded on the 1st. day of August, 1951, in Book "H", Page 572 of the mining records of Polk County, Arkansas.

That certain mining claim located in Section 15, Township 4 South, Range 29 West, as recorded on the 1st. day of August, 1951, in Book "H", Page 572 of the mining records of Polk County, Arkansas.

That certain mining claim located in Section 15, Township 4 South, Range 29 West, as recorded on the 1st. day of August, 1951, in Book "H", Page 573 of the mining records of Polk County, Arkansas.

That certain mining claim located in Section 15, Township 4 South, Range 29 West, as recorded on the 1st. day of August, 1951, in Book "H", Page 573 of the mining records of Polk County, Arkansas.

That certain mining claim located in Section 15, Township 4 South, Range 29 West, as recorded on the 1st. day of August, 1951, in Book "H", Page 574 of the mining records of Polk County, Arkansas.

That certain mining claim located in Section 15 & 16, Township 4 South, Range 29 West, as recorded on the 1st. day of August, 1951, in Book "H", Page 574 of the mining records of Polk County, Arkansas.

That certain mining claim located in Section 16, Township 4 South, Range 29 West, as recorded on the 1st. day of August, 1951, in Book "H", Page 575, of the mining records of Polk County, Arkansas.

That certain mining claim located in Section 16, Township 4 South, Range 29 West, as recorded on the 1st. day of August, 1951, in Book "H", Page 575, of the mining records of Polk County, Ark.

That certain mining claim located in Section 16, Township 4 South, Range 29 West, as recorded on the 1st. day of August, 1951, in Book "H", Page 576, of the mining records of Polk County, Arkansas.

That certain mining claim located in Section 16, Township 4 South, Range 29 West, as recorded on the 1st. day of August, 1951, in Book "H", Page 576 of the mining records of Polk County, Arkansas.

That certain mining claim located in Sections 15 & 16, Township 4 South, Range 29 West, as recorded on the 1st. day of August, 1951, in Book "H", Page 577 of the mining records of Polk County, Arkansas.

That certain mining claim located in Section 15, Township 4 South, Range 29 West, as recorded on the 1st. day of August, 1951, in Book "H", Page 577, of the mining records of Polk County, Arkansas.

That certain mining claim located in Section 15, Township 4 South, Range 29 West, as recorded on the 1st. day of August, 1951, in Book "H", Page 578 of the mining records of Polk County, Arkansas.

That certain mining claim located in Section 15, Township 4 South, Range 29 West, as recorded on the 1st. day of August, 1951, in Book "H", Page 578 of the mining records of Polk County, Arkansas.

TO HAVE AND TO HOLD the same unto the said S. Austin Wier and unto his heirs and assigns forever with all appurtenances thereunto belonging; and I further covenant that I will warrant and defend the title to such claims against all persons and claims whatsoever.

Provided that when and if such claims are worked by the said S. Austin Wier, his heirs or assigns, that there shall be paid to the undersigned assignor under this instrument, as royalty the sum of seven cents ($.07) per ton for all raw manganese ore removed from the above claims for milling or marketing.

WITNESS my hand and seal this 10th. day of July, 1951.

J. R. Wood

ASSIGNMENT EXHIBIT NO. 10

KNOW ALL MEN BY THESE PRESENTS:

THAT I, J. R. Wood, locator of the mining claims in Polk County, Arkansas, hereinafter described, for and in consideration of the sum of One and no/100 Dollar ($1.00) cash in hand to me paid, (the receipt of which is hereby acknowledged) and other good and valuable consideration hereinafter set out, do hereby grant, bargain, sell, transfer, convey and assign all my right, title and interest in and to the following mining claims, to S. Austin Wier, and unto his heirs and assigns:

That certain mining claim located in Section 25 (SW¼), Township 3 South, Range 30 West, as recorded on the 29th. day of November, 1950 in Book "H", page 432 of the mining records of Polk County, Arkansas.

That certain mining claim located in Section 25, Township 3 South, Range 30 West, as recorded on the 29th. day of November, 1950, in Book "H", Page 433 of the mining records of Polk County, Arkansas.

That certain mining claim located in Section 25, Township 3 South, Range 30 West, as recorded on the 25th. day of January, 1951, in Book "H", Page 491 of the mining records of Polk County, Arkansas.

That certain mining claim located in Section 35, Township 3 South, Range 30 West, as recorded on the 4th. day of November, 1950, in Book "H", Page 396 of the mining records of Polk County, Arkansas

That certain mining claim located in Section 35, (NE of SE) Township 3 South, Range 30 West, as recorded in Book "H", Page 442, on the 18th. day of December, 1950, of the mining records of Polk County, Arkansas.

That certain mining claim located in Section 35, Township 3 South, Range 30 West, as recorded on the 4th. day of November, 1950, in Book "H", Page 397 of the mining records of Polk County, Arkansas

THAT certain mining claim located in Section 36, Township 3 South, Range 30 West, as recorded on the 4th. day of November, 1950, in Book "H", Page 397 of the mining records of Polk County, Arkansas.

TO HAVE AND TO HOLD the same unto the said S. Austin Wier, and unto his heirs and assigns forever with all appurtenances thereunto belonging; and I further covenant that I will warrant and defend the title to such claims against all persons and claims whatsoever.

Provided that when and if such claims are worked by the said S. Austin Wier, his heirs or assigns, that there shall be paid to the undersigned assignor under this instrument, as royalty, the sum of seven cents ($.07) per ton for all raw manganese ore removed from the above claims for milling or marketing.

WITNESS my hand and seal, this 10th. day of July, 1951.

J. R. Wood

ASSIGNMENT EXHIBIT NO. 11

KNOW ALL MEN BY THESE PRESENTS:

THAT I, J. R. Wood, locator of the mining claims in Polk County, Arkansas, hereinafter described, for and in consideration of the sum of One and no/100 Dollar ($1.00) cash in hand to me paid, (the receipt of which is hereby acknowledged) and other good and valuable consideration hereinafter set out, do hereby grant, bargain, sell, transfer, convey and assign all my right, title and interest in and to the following mining claim, to S. Austin Wier, and unto his heirs and assigns:

That certain mining claim located on Section 1, Township 4 South, Range 30 West, as recorded on the 25th. day of November, 1950, in Book "H", Page 429 of the mining records of Polk County, Arkansas.

TO HAVE AND TO HOLD the same unto the said S. Austin Wier and unto his heirs and assigns forever with all appurtenances thereunto belonging; and I further covenant that I will warrant and defend the title to such claims against all persons and claims whatsoever.

Provided that when and if such claim is worked by the said S. Austin Wier, his heirs or assigns, that there shall be paid to the undersigned assignor under this instrument, as royalty, the sum of seven cents ($.07) per ton for all raw manganese ore removed from the above claim for milling or marketing.

WITNESS my hand and seal this 10th day of July, 1951.

J. R. Wood

ACKNOWLEDGMENT

STATE OF ARKANSAS
COUNTY OF POLK ss

On this day personally appeared before the undersigned, a Notary Public in and for the County and State aforesaid, J. R. Wood, to me well known to be the person whose name appears as grantor in the foregoing instrument, and stated that he had executed the same for the consideration, use and purposes therein mentioned and set forth.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 2nd day of August, 1951.

SEAL
My Commission expires:
15 Mar., 1954

R. H. Geyer
Notary Public

ASSIGNMENT EXHIBIT NO. 12

KNOW ALL MEN BY THESE PRESENTS:

THAT I, Luke Lawrence, locator of the mining claims in Polk County, Arkansas, hereinafter described, for and in consideration of the sum of One and no/100 Dollar ($1.00) cash in hand to me paid, (the receipt of which is hereby acknowledged) and other good and valuable consideration hereinafter set out, do hereby grant, bargain, sell, transfer, convey and assign all my right, title and interest in and to the following mining claims, to S. Austin Wier, and unto his heirs and assigns:

That certain mining claim located in Section 25, Township 3 South, Range 30 West, as recorded on the 29th. day of November, 1950, in Book "H", Page 433 of the mining records of Polk County, Arkansas.

That certain mining claim located in Section 25, Township 3 South, Range 30 West, as recorded the 25th day of January, 1951, in Book "H", Page 490 of the mining records of Polk County, Arkansas.

That certain mining claim located in Section 25 & 26, Township 3 South, Range 30 West, as recorded on the 4th. day of November, 1950, in Book "H", Page 392 of the mining records of Polk County, Arkansas.

That certain mining claim located in Section 36, Township 3 South, Range 30 West, as recorded the 4th. day of November, 1950, in Book "H", Page 394 of the mining records of Polk County, Arkansas.

That certain mining claim located in Section 35, Township 3 South, Range 30 West, as recorded on the 4th. day of November, 1950, in Book "H", Page 396 of the mining records of Polk County, Arkansas,

That certain mining claim located in Section 35 (NE of SW), Township 3 South, Range 30 West, as recorded the 18th. day of December, 1950, in Book "H", Page 443 of the mining records of Polk County, Arkansas.

That certain mining claim located in Section 25 (NW¼ of SE) Township 3 South, Range 30 West, as recorded on the 29th.

day of November, 1950, in Book "H", Page 432 of the mining records of Polk County, Arkansas.

TO HAVE AND TO HOLD the same unto the said S. Austin Wier and unto his heirs and assigns forever with all appurtenances thereunto belonging; and I further covenant that I will warrant and defend the title to such claims against all persons and claims whatsoever.

Provided that when and if such claims are worked by the said S. Austin Wier, his heirs or assigns, that there shall be paid to the undersigned assignor under this instrument, as royalty, the sum of seven cents ($.07) per ton for all raw manganese ore removed from the above claims for milling or marketing.

WITNESS my hand and seal, this 10th. day of July, 1951.

Luke Lawrence

ASSIGNMENT EXHIBIT NO. 13

KNOW ALL MEN BY THESE PRESENTS:

That I, Luke Lawrence, locator of the mining claims in Polk County, Arkansas, hereinafter described, for and in consideration of the sum of One and no/100 DOLLAR ($1.00) cash in hand to me paid, (the receipt of which is hereby acknowledged) and other good and valuable consideration hereinafter set out, do hereby grant, bargain, sell, transfer, convey and assign all my right, title and interest in and to the following mining claim, to S. Austin Wier, and unto his heirs and assigns:

That certain mining claim located in Sections 27 & 28, Township 3 South, Range 29 West, as recorded on the 8th. day of November, 1950, in Book "H", Page 400, of the mining records of Polk County, Arkansas.

TO HAVE AND TO HOLD the same unto the said S. Austin Wier and unto his heirs and assigns forever with all appurtenances thereunto belonging; and I further covenant that I will warrant and defend the title to such claim against all person and claims whatsoever.

Provided that when and if such claim is worked by the said S. Austin Wier, his heirs or assigns, that there shall be paid to the undersigned assignor under this instrument, as royalty the sum of seven cents ($.07) per ton for all raw manganese ore removed from the above claim for milling or marketing.

WITNESS my hand and seal, this 10th. day of July, 1951.

Luke Lawrence

ASSIGNMENT EXHIBIT NO. 14

KNOW ALL MEN BY THESE PRESENTS:

THAT I, Loraine Burnett, locator of the mining claims in Polk County, Arkansas, hereinafter described, for and in consideration of the sum of One and no/100 Dollar ($1.00) cash in hand to me paid, (the receipt of which is hereby acknowledged) and other good and valuable consideration hereinafter set out, do hereby grant, bargain, sell, transfer, convey and assign all my right, title and interest in and to the following mining claims, to S. Austin Wier, and unto his heirs and assigns:

That certain mining claim located in Section 9, Township 4 South, Range 29 West, as recorded on the 1st. day of January, 1951, in Book "H", Page 463, of the mining records of Polk County, Arkansas.

That certain mining claim located in Section 9, Township 4 South, Range 29 West, as recorded on the 1st. day of January, 1951, in Book "H", Page 464, of the mining records of Polk County, Arkansas.

That certain mining claim located in Section 9, Township 4 South, Range 29 West, as recorded on ths 1st. day of January, 1951, in Book "H", Page 464, of the mining records of Polk County, Arkansas.

That certain mining claim located in Section 9, Township 4 South, Range 29 West, as recorded on the 1st. day of January, 1950, in Book "H", Page 465, of the mining records of Polk County, Arkansas.

That certain mining claim located in Section 9, Township 4 South, Range 29 West, as recorded on the 1st. day of January, 1951, in Book "H", Page 465, of the mining records of Polk County, Arkansas.

That certain mining claim located in Section 9, Township 4 South, Range 29 West, as recorded on the 1st. day of January, 1951, in Book "H", Page 466, of the mining records of Polk County, Arkansas.

That certain mining claim located in Section 9, Township 4 South, Range 29 West, as recorded on the 1st. day of January, 1951, in Book "H", Page 466, of the mining records of Polk County, Arkansas.

That certain mining claim located in Section 9, Township 4 South, Range 29 West, as recorded on the 1st. day of January, 1951, and recorded in Book "H", Page 467, of the mining records of Polk County, Arkansas.

That certain mining claim located in Section 9, Township 4 South, Range 29 West, as recorded on the 1st. day of January, 1951, in Book "H", Page 467, of the mining records of Polk County, Arkansas.

That certain mining claim located in Section 10, Township 4 South, Range 29 West, as recorded on the 1st. day of January, 1951, in Book "H", Page 468, of the mining records of Polk County, Arkansas.

That certain mining claim located in Section 10, Township 4 South, Range 29 West, as recorded on the 1st. day of January, 1951, in Book "H", Page 468, of the mining records of Polk County, Arkansas.

That certain mining claim located in Section 10, Township 4 South, Range 29 West, as recorded on the 1st. day of January, 1951, in Book "H", Page 469, of the mining records of polk County, Arkansas.

That certain mining claim located in Section 10, Township 4 South, Range 29 West, as recorded on the 1st. day of January, 1951, in Book "H", Page 469, of the mining records of Polk County, Arkansas.

TO HAVE AND TO HOLD the same unto the said S. Austin Wier and unto his heirs and assigns forever with all appurtenances thereunto belonging; and I further covenant that I will warrant and defend the title to such claims against all persons and claims whatsoever.

Provided that when and if such claims are worked by the said S. Austin Wier, his heirs or assigns, that there shall be paid to the undersigned assignor under this instrument, as royalty, the sum of seven cents ($.07) per ton for all raw manganese ore removed from the above claims for milling or marketing.

WITNESS my hand and seal, this 10th. day of July, 1951.

Loraine Burnett

ASSIGNMENT EXHIBIT NO. 15

KNOW ALL MEN BY THESE PRESENTS:

THAT I, J. R. Wood, locator of the mining claims in Polk County, Arkansas, hereinafter described, for and in consideration of the sum of One and no/100 Dollar ($1.00) cash in hand to me paid, (the receipt of which is hereby acknowledged) and other good and valuable consideration hereinafter set out, do hereby grant, bargain, sell, transfer, convey and assign all my right, title and interest in and to the following mining claims, to S. Austin Wier, and unto his heirs and assigns:

That certain mining claim located in Section 14, Township 3 South, Range 30 West, as recorded on the 17th. day of January 1951, in Book "H", Page 485 of the mining records of Polk County, Arkansas.

That certain mining claim located in Section 14, Township 3 South, Range 30 West, as recorded on the 17th. day of January, 1951, in Book "H", Page 486 of the mining records of Polk County, Arkansas.

TO HAVE AND TO HOLD the same unto the said S. Austin Wier and unto their heirs and assigns forever with all appurtenances thereunto belonging; and I further covenant that I will warrant and defend the title to such claims against all persons and claims whatsoever.

Provided that when and if such claims are worked by the said S. Austin Wier, his heirs or assigns, that there shall be paid to the undersigned assignor under this instrument, as royalty, the sum of seven cents ($.07) per ton for all raw manganese ore removed from the above claims for milling or marketing.

WITNESS my hand and seal, this 10th. day of July, 1951.

J. R. Wood

ACKNOWLEDGMENT

STATE OF ARKANSAS)
COUNTY OF POLK) ss

On this day personally appeared before the undersigned, a Notary Public in and for the County and State aforesaid, duly qualified and acting, J. R. Wood, to me well known to be the person whose name appears as grantor in the foregoing instrument, and stated that he had executed the same for the consideration, use and purposes therein mentioned and set forth.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 2nd day of August, 1951.

SEAL

My Commission expires: R. H. Geyer
15 Mar., 1954 Notary Public

ASSIGNMENT EXHIBIT NO. 16

KNOW ALL MEN BY THESE PRESENTS:

THAT I, Luke Lawrence, locator of the mining claims in Polk County, Arkansas, hereinafter described, for and in consideration of the sum of One and no/100 Dollar ($1.00) cash in hand to me paid, (the receipt of which is hereby acknowledged) and other good and valuable consideration hereinafter set out, do hereby grant, bargain, sell, transfer, convey and assign all my right, title and interest in and to the following mining claims, to S. Austin Wier, and unto his heirs and assigns:

That certain mining claim located in Section 14, Township 3 South, Range 30 West, as recorded on the 17th. day of January, 1951, in Book "H", Page 483 of the mining records of Polk County, Arkansas.

That certain mining claim located in Section 14, Township 3 South, Range 30 West, as recorded on the 17th. day of January, 1951, in Book "H", Page 484 of the mining records of Polk County, Arkansas.

That certain mining claim located in Sections 14 & 15 Township 3 South, Range 30 West, as recorded on the 1st. day of August, 1951, in Book "H", Page 568 of the mining records of Polk County, Arkansas.

TO HAVE AND TO HOLD the same unto the said S. Austin Wier and unto his heirs and assigns forever with all appurtenances thereunto belonging; and I further covenant that I will warrant and defend the title to such claims against all persons and claims whatsoever.

Provided that when and if such claims are worked by the said S. Austin Wier, his heirs or assigns, that there shall be paid to the undersigned assignor under this instrument, as royalty, the sum of seven cents ($.07) per ton for all raw manganese ore removed from the above claims for milling or marketing.

WITNESS my hand and seal, this 10th. day of July, 1951.

Luke Lawrence

ASSIGNMENT EXHIBIT NO. 17

KNOW ALL MEN BY THESE PRESENTS:

THAT I, Lola V. Wood, locator of the mining claims in Polk County, Arkansas, hereinafter described, for and in consideration of the sum of One and no/100 Dollar ($1.00) cash in hand to me paid, (the receipt of which is hereby acknowledged) and other good and valuable consideration hereinafter set out, do hereby grant, bargain, sell, transfer, convey and assign all my right, title and interest in and to the following mining claims, to S. Austin Wier, and unto his heirs and assigns:f

That certain mining claim located in Section 35, Township 3 South, Range 30 West, as recorded on the 4th. day of November, 1950, in Book "H", Page 394 of the mining records of Polk County, Arkansas.

That certain mining claim located in Section 35, Township 3 South, Range 30 West, as recorded on the 4th. day of November, 1950, in Book "H", Page 395 of the mining records of Polk County, Arkansas.

That certain mining claim located in Section 36, (Pt. NW of NW & SW of NW) Township 3 South, Range 30 West, as recorded on the 4th. day of November, 1950, in Book "H", Page 393 of the mining records of Polk County, Arkansas.

TO HAVE AND TO HOLD the same unto the said S. Austin Wier and unto his heirs and assigns forever with all appurtenances thereunto belonging; and I further covenant that I will warrant and defend the title to such claims against all persons and claims whatsoever.

Provided that when and if such claims are worked by the said S. Austin Wier, his heirs or assigns, that there shall be paid to the undersigned assignor under this instrument, as royalty, the sum of seven cents ($.07) per ton for all raw manganese ore removed from the above claims for milling or marketing.

WITNESS my hand and seal, this 10th. day of July, 1951.

Lola V. Wood

ACKNOWLEDGMENT

STATE OF ARKANSAS)
COUNTY OF POLK) ss

On this day personally appeared before the undersigned, a Notary Public in and for the County and State aforesaid, duly qualified and

acting Lola V. Wood, to me well known to be the person whose name appears as grantor in the foregoing instrument and stated that she had executed the same for the consideration, use and purposes therein mentioned and set forth.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 2nd day of August, 1951.

SEAL

My Commission expires: R. H. Geyer
15 Mar., 1954

CERTIFICATE OF RECORD

STATE OF ARKANSAS
COUNTY OF POLK ss

I, Mrs. M. M. Martin, Circuit Clerk and Ex-Officio Recorder for the County aforesaid, do hereby certify that the annexed and foregoing instrument of writing was filed for record in my office on the 10th day of August, 1951, A.D., at 2:00 o'clock P.M., and the same is now duly recorded with the acknowledgements and certificates thereon, in Vol. "G" of the Mining Records, Pages 202-211.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of said Court this 14th day of August, 1951.

Mrs. M. M. Martin
Circuit Clerk and
Ex-Officio Recorder

SEAL

C E R T I F I C A T E

STATE OF ARKANSAS
COUNTY OF POLK

I, Mrs. M. M. Martin, Circuit Clerk and Ex-Officio Recorder within and for the above county and state, hereby certify that the attached and foregoing Assignment, pages 1 to 15, inclusive, is a true and complete copy of the Assignment from S. Austin Wier to CHENOWETH MINES AND METALS, LIMITED, as same appears of record in Mining Record "G", pages 202-211, now on file in my office.

IN TESTIMONY WHEREOF, I hereunto set my hand and affix the seal of said Court, at Mena, Arkansas, this 19th day of March, 1 9 5 2 .

Mrs M M Martin

Circuit Clerk and Ex-Officio Recorder

ASSIGNMENT OF MINING CLAIMS

KNOW ALL MEN BY THESE PRESENTS THAT:

For and in consideration of the sum of One ($1.00) Dollar in cash, the receipt of which is hereby acknowledged, and other good and sufficient consideration, the undersigned ALBERTA S. HUNTINGTON, who is the same person as ALBERTA HUNTINGTON, joined herein by her husband, MORGAN G. HUNTINGTON, both being residents of Albuquerque, New Mexico, have granted, bargained and sold, conveyed, assigned, transferred and delivered, and by these presents do GRANT, BARGAIN AND SELL, ASSIGN, TRANSFER, CONVEY AND DELIVER unto S. AUSTIN WIER, of Dallas, Texas, his heirs and assigns, the entire right, title and interest in and to those certain thirty-one (31) lode mining claims situated in Polk County, Arkansas, in what is generally known as the Mena Mining District, which claims are more particularly described in those certain thirty-one (31) instruments known as Lode Mining Claim Location Notices, heretofore made and filed by the said Alberta S. Huntington and/or the said Alberta Huntington, and which claims have been recorded in the office of Mrs. M. M. Martin, District Recorder for the County of Polk, and the State of Arkansas, the claim descriptions, dates of locations and the place and books wherein recorded, being as follows:

1. Mining Claim No. 5, on the Manganese Lode or vein, beginning at the Eastern boundary of No. 4 New Find and comprehending an area approximately 1,500 feet in length and 600 feet in width, situated in Section 26, Township 3 South, Range 29 West, located November 1, 1950, and recorded as aforesaid on November 2, 1950, in Book "H" at page 390.

2. Mining Claim No. Sulphur #3, on the Manganese lode or vein, beginning at the Eastern boundary of Sulphur #2 and comprehending an area approximately 1,500 feet in length and 600 feet in width, situated in Sections 29 and 28, Township 3 South, Range 29 West, located October 30, 1950, and recorded as aforesaid on 2nd day of November, 1950, in Book H page 390.

3. Mining Claim No. 3 West Jumbo on the Manganese lode or vein beginning at West boundary of No. 2 West Jumbo and comprehending an area approximately 1,500 feet in length and 600 feet in width, situated in Section 28, Township 3 South, Range 29 West and recorded as aforesaid on November 2, 1950 in Book H page 391. (Claim located November 1, 1950)

4. Mining Claim No. 3 Camp on the Manganese lode or vein beginning at 300 ft South and 1500 ft East of NE corner Sec. 33, and comprehending an area approximately 1,500 feet in length and 600 ft in width, situated in Section 34, Township 3 South, Range 29 West and recorded as aforesaid on November 2, 1950 in Book H page 391. (Claim located October 30, 1950).

5. Mining Claim No. 4 on the Manganese lode or vein beginning at Otis Ashcraft Claim No. 3 and comprehending an area approximately 1,500 feet in length and 600 feet in width, situated in Section 22, Township 3, Range 30, and recorded as aforesaid in Book H , page 398 on November 4, 1950. (Claim located November 2, 1950.)

6. Mining Claim No. 7, on the Manganese lode or vein beginning at Arthur Ashcraft Claim No. 6, comprehending an area of approximately 1,500 feet in length and 600 feet in width, situated in Section 21, Township 3, Range 30, and recorded as aforesaid on November 4, 1950 in Book H, page 400. (Claim located November 2, 1950).

7. Mining Claim No. Austin 1, beginning at this notice and comprehending an area of approximately 1,500 feet in length and 600 feet in width, and situated in Section 31, Township 3, South, Range 29 West, and recorded as aforesaid on November 10, 1950 in Book H, page 408.

8. Mining Claim No. 2, beginning at this notice, and comprehending an area of approximately 1,500 feet in length and 600 feet in width and situated in Section 31, Township 3 South, Range 29 West and recorded as aforesaid on November 10, 1950 in Book H, page 408.

9. Mining Claim Austin No. 3, beginning at this notice and comprehending an area approximately 1,500 feet in length and 600 feet in width, and situated in Section 31, Township 3 South, Range 29 West and recorded as aforesaid on November 10, 1950 in Book H, page 409.

Claims shown in Items 7 to 9 inclusive above and 10 to 31 inclusive below were all located on November 3, 1950.

10. Mining Claim Austin No. 4, beginning at this notice and comprehending an area approximately 1,500 feet in length and 600 feet in width, and situated in Section 31, Township 30 South, Range 29 West and recorded as aforesaid in Book H, page 409 on the 10th day of November, 1950.

11. Mining Claim Austin No. 5, beginning at this notice and comprehending an area approximately 1,500 feet in length and 600 feet in width, and situated in Section 30, Township 3 South Range 29 West and recorded as aforesaid on November 10, 1950 in Book H, page 410.

12. Mining Claim Austin No. 6, beginning at this notice and comprehending an area approximately 1,500 feet in length and 600 feet in width, and situated in Section 30, Township 3 South, Range 29 West and recorded as aforesaid on November 10th, 1950, in Book H, page 410.

13. Mining Claim Austin No. 7, beginning at this notice and comprehending an area approximately 1,500 feet in length and 600 feet in width, and situated in Section 30, Township 3 South, Range 29 West and recorded as aforesaid on November 10, 1950 in Book H, page 411.

14. Mining Claim Austin No. 8, beginning at this notice and comprehending an area approximately 1,500 feet in length and 600 feet in width, and situated in Section 30, Township 3, South, Range 29 W, and recorded as aforesaid on November 10, 1950 in Book H, page 411.

15. Mining Claim No. 9, beginning at this notice and comprehending an area 1,500 feet in length approximately and approximately 600 feet in width, and situated in Section 25, Township 3 South, Range 30 West and recorded as aforesaid on November 10, 1950, in Book H, Page 412.

16. Mining Claim Austin No. 10, beginning at this notice and comprehending an area approximately 1,500 feet in length and 600 feet in width, and situated in Section 25, Township 3 South, Range 30 West and recorded as aforesaid on November 10, 1950, and recorded in Book H, page 412.

17. Mining Claim Austin No. 11, beginning at this notice and comprehending an area approximately 1,500 feet in length and 600 feet in width, and situated in Section 36, Township 3 South, Range 30 West and recorded as aforesaid on November 10, 1950 and recorded in Book H, page 413.

18. Mining Claim Austin No. 12, beginning at this notice and comprehending an area approximately 1,500 feet in length and 600 feet in width, and situated in Section 36, Township 3, South, Range 30 West and recorded as aforesaid on November 10, 1950, in Book H, page 413.

19. Mining Claim Austin No. 13, beginning at this notice and comprehending an area approximately 1,500 feet in length and 600 feet in width, and situated in Section 36, Township 3 South, Range 30 West, and recorded as aforesaid on November 10, 1950 in Book H, page 414.

20. Mining Claim Austin No. 14, beginning at this notice and comprehending an area of approximately 1,500 feet in length and 600 feet in width and situated in Section 36, Township 3 South, Range 30 West, and recorded as aforesaid on November 10, 1950 in Book H, page 414.

21. Mining Claim Austin No. 15 beginning at this notice and comprehending an area approximately 1,500 feet in length and 600 feet in width, and situated in Section 25, Township 3 South, Range 30 West and recorded as aforesaid on November 10, 1950 in Book H, page 415.

22. Mining Claim Austin No. 16, beginning at this notice and comprehending an area of approximately 1,500 feet in length and 600 feet in width and situated in Section 25, Township 3 South, Range 30 West, and recorded as aforesaid on November 10, 1950, in Book H, page 415.

23. Mining Claim Austin No. 17 beginning at this notice and comprehending an area of approximately 1,500 feet in length and 600 feet in width, and situated in Section 30, Township 3 South, Range 29 West, and recorded as aforesaid on November 10, 1950, in Book H, Page 416.

24. Mining Claim Austin No. 18 beginning at this notice and comprehending an area approximately 1,500 feet in length and 600 feet in width, and situated in Section 30, Township 3 South, Range 29 West, and recorded as aforesaid on November 10, 1950 in Book H, page 416.

25. Mining Claim Austin No. 19, beginning at this notice and comprehending an area approximately 1,500 feet in length and 600 feet in width, and situated in Section 31, Township 3 South, Range 29 West, and recorded as aforesaid on November 10, 1950, in Book H, page 417.

26. Mining Claim Austin No. 20, beginning at this notice and comprehending an area approximately 1,500 feet in length and 600 feet in width, and situated in Section 31, Township 3 South, Range 29 West, and recorded as aforesaid on November 10, 1950, in Book H, page 417.

27. Mining Claim Austin No. 21, beginning at this notice and comprehending an area approximately 1,500 feet in length and 600 feet in width, and situated in Section 36, Township 3 South, Range 30 West, and recorded as aforesaid in Book H, Page 418, on November 10, 1950.

28. Mining Claim Austin No. 22, beginning at this notice, and comprehending an area approximately 1,500 feet in length and 600 feet in width, and situated in Section 31, Township 3 South, Range 29 West, and recorded as aforesaid on November 10, 1950, in Book H, page 418.

29. Mining Claim Austin 23, beginning at this notice, and comprehending an area approximately 1,500 feet in length and 600 feet in width, and situated in Section 31, Township 3 South Range 29 West and recorded as aforesaid on November 10, 1950 in Book H, page 419.

30. Mining Claim Austin No. 24, beginning at this notice, and comprehending an area approximately 1,500 feet in length and 600 feet in width, and situated in Section 31, Township 3 South, Range 29 West, and recorded as aforesaid on November 10, 1950 in Book H, Page 419.

31. Mining Claim Austin No. 25, beginning at this notice and comprehending an area approximately 1,500 feet in length and 600 feet in width, and situated in Section 36, Township 3 South, Range 30 West, and recorded as aforesaid on November 10, 1950 in Book H, page 420.

FURTHERMORE, I, ALBERTA S. HUNTINGTON, wife of the said Morgan G. Huntington, for the consideration hereinabove recited, do hereby release and relinquish unto the said S. Austin Wier, his heirs and assigns, all my right of dower and homestead in and to all of the aforesaid claims and lands.

MADE AND EXECUTED on the 1st. day of February, 1951, as at Dallas, Texas.

(Sig) Alberta S. Huntington
Alberta S. Huntington

(Sig.) Morgan G. Huntington
Morgan G. Huntington.

STATE OF N.MEX }
COUNTY OF BERNALILLO }

On this day came before me, a Notary Public duly commissioned and acting within and for said County and State, ALBERTA S. HUNTINGTON, wife of the said Morgan G. Huntington, to me well known as the grantor in the foregoing deed and assignment, and stated that she had executed the same for the consideration and purposes therein mentioned and set forth, and in the absence of her said husband declared that she had of her own free will executed said deed and assignment and signed and sealed the relinquishment of dower and homestead therein, for the consideration and purposes therein contained and set forth, without compulsion or undue influence of her said husband.

WITNESS MY HAND AND OFFICIAL Seal on this the 3rd day of February, A.D. 1951.

SEAL
My Commission expires
Nov. 22, 1952

C. A. Boberschmidt
Notary Public in and for
the County and State
aforesaid.

DISTRICT OF COLUMBIA }

On this day came before me, a Notary Public duly commissioned, and acting within and for said County and State, MORGAN G. HUNTINGTON, to me well known, as the grantor in the foregoing deed and assignment, and stated that he had executed same for the consideration and purposes therein mentioned and set forth.

WITNESS MY HAND AND OFFICIAL SEAL on this the 23rd day of February, A.D. 1951.

SEAL

Melva G. Davis
Notary Public in and for the
District of Columbia Aforesaid.

CERTIFICATE OF RECORD

STATE OF ARKANSAS
COUNTY OF POLK ss

I, Mrs. M. M. Martin, Circuit Clerk and Ex-Officio Recorder for the County aforesaid, do hereby certify that the annexed and foregoing instrument of writing was filed for record in my office on the 3rd day of March, 1951, A.D., at 1:00 o'clock P.M., and the same is now duly recorded with the acknowledgments and certificates thereon, in Vol. "G" of the Mining Records, Pages 144-146.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of said court this 3rd day of March, 1951.

SEAL

Mrs. M. M. Martin
Circuit Clerk and
Ex-Officio Recorder

C E R T I F I C A T E

STATE OF ARKANSAS
COUNTY OF POLK

I, Mrs. M. M. Martin, Circuit Clerk and Ex-Officio Recorder within and for the above county and state, hereby certify that the the foregoing instrument, pages numbered 1 to 5, inclusive, is a true and complete copy of the Assignment of Mining Claims from Morgan G. Huntington and Alberta S. Huntington to S. Austin Wier, as same appears of record in Mining Record "G" at pages 144 to 146, now on file in my office.

IN TESTIMONY WHEREOF, I hereunto set my hand and affix the seal of said Court, at Mena, Arkansas, this 19th day of March, 1952.

Mrs M M Martin

Circuit Clerk and ex-Officio Recorder

Item #2 Exhibit A

A S S I G N M E N T

For and in consideration of the sum of One Thousand Dollars ($1,000.00) paid and to be paid as follows: Five Hundred Dollars cash in hand this day paid, the receipt of which is specifically acknowledged, and the further sum of Five Hundred Dollars to be paid on or before April 15, 1951, the undersigned, Luke Lawrence, originator locator of that certain 10 Mining Claims on the Cossatot Lode, herein and after described, the said Luke Lawrence herein and after called Seller, does hereby sell, assign, transfer and deliver over to S. Austin Wier, Purchaser, his heirs, assigns the entire right, title, and interest in and to all of the siad 10 Mining Claims, located in Polk County, Arkansas, and described as follows:

(1) Mining Claim No. 1 on the Cossatot Lode or vein, situated in Section SW of SE 19, Twp 3 S. R. 29 W, Mena Mining District, located by the undersigned on November 8, 1950, and recorded on November 10, 1950 in Book "H", Page 420 by the District Recorder of Polk County, Arkansas.

(2) Mining Claim No. 2 on the Cossatot Lode or vein be situated in Section 19, Twp 3 S R 29 W, Mena Mining District, located by J. L. Lawr nce on November 8, 1950, and recorded on the 10th day of November in Book "H", Page 421 by the District Recorder of Polk County, Arkansas.

(3) Mining Claim No. 3 on the Cossatot Lode or vein, situated in Section 20, Twp. 3 S, R 29 W, Mena Mining District, located by J. R. Wood on November 8, 1950, and recorded on November 10th, 1950 in Book "H" Page 421, by the District Recorder of Polk County, Arkansas

(4) Mining Claim No. 4 on the Cossatot Lode or vein, situated in Section 29, Twp 3 S R 29 W of the Mena Mining District, located by Luke Lawrence on November 8th, 1950, and recorded on the 10th day of November, 1950 in Book "H" Page 422 by the District Recorder of Polk County, Arkansas.

(5) Mining Claim No. 5 on the Cossatot Lode or vein situated in Section 29, Twp 3 S, R 29 W of the Mena Mining District, located by J. L. Lawrence on November 8, 1950 and recorded on the 10th day of November, 1950 in Book "H" Page 422 by the District Recorder of Polk County, Arkansas.

(6) Mining Claim No. 6 on the Cossatot Lode or vein, situated in Section 29, Twp 3 S R 29 W of the Mena Mining District, located by J. R. Wood on November 8th, 1950 and receorded on the 10th day of November, 1950, in Book "H" Page 423 by the District Recorder of Polk County, Arkansas

(7) Mining Claim No. 7 on the Cossatot Lode or vein situated in Section 20, Twp 3 S, R 29 W of Mena Mining District, located by J. L. Lawrence on November 8, 1950 and recorded on the 10th day of November, 1950 and recorded on the 10th day of November, 1950 in Book "H" Page 423 by the District Recorder of Polk County, Arkansas.

(8) Mining Claim No. 8 on the Cossatot Lode or vein situated in Section 20, Twp 3 S, R 29 W of Mena Mining District, located by Luke Lawrence on the 8th day of November, 1950, and recorded on the 10th day of November, 1950 in Book "H", Page 424 by the District Recorder of Polk County, Arkansas

(9) Mining Claim No. 9 on the Cossatot Lode or vein situated in Section 20 Twp 3 S R 29 W of Mena Mining District, located by J. R. Wood on November 8, 1950, and recorded on the 10th day of November, 1950, in Book "H" on page 424 by the District Recorder of Polk County, Arkansas.

(10) Mining Claim No. 10 on the Cossatot Lode or vein situated in Section 20, Twp 3 S, R 29 W of Mena Mining District, located by Luke Lawrence, on November 8, 1950, and recorded on the 10th day of November, 1950 in Book "H", Page 425 by the District Recorder of Polk County, Arkansas

Not withstanding in reciation herein above made, it is declared that the original locators of the above described mining claims are the Locators named specifically in the several paragraphs above which are numbered 1 to 10 inclusive, and that the Sellers of the claims are, in truth and in fact, Luke Lawrence, J. L. Lawrence, and J. R. Wood; and the three named persons do hereby sell, convey, assign, transfer and deliver over to S. Austin Wier, purchaser his heirs, assigns and personal representatives the entire right, title, and interest in and to all of the aforesaid 10 mining claims, subject to and conditioned only that there is reserved to the three named Sellers, in equal undivided interests therein, a royalty of Seven Cents (07¢) per ton of ore mined and removed from said claims for sale; and such royalty shall be paid when such ore shall have been removed from said claims and sold.

The undersigned Sellers warrant that they have full right and authority to make this sale and assignment.

Made in Mena, Polk County, Arkansas on December 21st, 1950.

J. R. Wood
J. R. Wood

J. L. Lawrence
J. L. Lawrence

Luke Lawrence
Luke Lawrence

STATE OF ARKANSAS
COUNTY OF POLK

BE IT REMEMBERED, That on this day came before me the undersigned, a Notary Public, within and for the County aforesaid, duly commissioned and acting, Luke Lawrence, J. R. Wood and J. L. Lawrence, to me well known as the sellers in the foregoing instrument, and stated that they had executed the same for the consideration and purposeds herein mentioned and set forth.

SEAL
WITNESS: December 20th, 1950
My Com. Exp. 3-27-54

J. A. Thornton, Jr.
Notary Public

CERTIFICATE OF RECORD

STATE OF ARKANSAS
COUNTY OF POLK ss

I, Mrs. M. M. Martin, Circuit Clerk and Ex-Officio Recorder for the County aforesaid, do hereby certify that the annexed and foregoing instrument of writing was filed for record in my office on the 21st day of December, 1950, A. D., at 3:30 o'clock P. M., and the same is now duly recorded with the acknowledgments and certificates thereon, in Vol. "G" of the Mining Records, Pages 136-137.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of said Court this 21st day of December, 1950.

SEAL

Mrs. M. M. Martin
Circuit Clerk and Ex-Officio
Recorder

C E R T I F I C A T E

STATE OF ARKANSAS
COUNTY OF POLK

I, Mrs. M. M. Martin, Circuit Clerk and Ex-Officio Recorder within and for the above county and state, hereby certify that the foregoing instrument is a true and complete copy of the Assignment from J. R. Wood, J. L. Lawrence and Luke Lawrence to S. Austin Wier, as same appears of record in Mining Record "G" at pages 136-137, now on file in my office.

IN TESTIMONY WHEREOF, I hereunto set my hand and affix the seal of said Court, at Mena, Arkansas, this 19th day of March, 1 9 5 2 .

Mrs M M Martin

Circuit Clerk and
Ex-Officio Recorder

Item #3 Exhibit A

A S S I G N M E N T

BE IT KNOWN THAT the undersigned Seller, being the original Locator of the herein and after Mining Claim , J. R. Wood of Mena, Arkansas, for and in consideration of the sum of One Dollar ($1.00) and other good and sufficient consideration to me in hand paid, the receipt of which is specifically acknowledged, does hereby sell, assign, convey, transfer, and deliver unto S. Austin Wier the entire right, title and interest in and to that certain mining claim described as follows:

Mining Claim No. 1 on the Short Creek Lode or vein, situated in Section 7, (NE¼) Twp 4 S R 29 W of Mena Mining District of Polk County, Arkansas, being that certain originally located by the undersigned J. R. Wood, on November 22, 1950 and recorded on 25th day of November, 1950, in Book "H" at page 430 by the District Recorder of Polk County, Arkansas.

This assignment is made without condition or reservation and the entire consideration therefor has been paid in full, and the undersign warrants that he has full right and authority to make this sale and assignment.

Made and executed at Mena, Polk County, Arkansas this 21st day of December, 1950.

J. R. Wood
J. R. Wood

STATE OF ARKANSAS
COUNTY OE POLK

BE IT REMEMBERED, That on this day came before me, the undersigned a Notary Public within and for the County aforesaid, duly commissioned and acting, J. R. Wood, to me well known as the grantor and seller in the foregoing instrument, and stated that he had executed same for the consideration and purposes herein mentioned and set forth.

WITNESS my hand and seal of such Notary Public on this 21st day of December, 1950.

SEAL
My Commission Exp. 3-27-54

J.A. Thornton, Jr.
Notary Public

CERTIFICATE OF RECORD

STATE OF ARKANSAS
COUNTY OF POLK

I, Mrs. M. M. Martin, Circuit Clerk and Ex-Officio Recorder for the County aforesaid, do hereby certify that the annexed and foregoing instrument of writing was filed for record in my office on the 21st day of December, 1950 A. D., at 3:30 o'clock P. M., and the same is now duly recorded with the acknowledgments and certificates thereon, in Vol. "G" on the Mining Records, Pages 137-138.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of said Court this 21st day of December, 1950.

SEAL

Mrs. M. M. Martin
Circuit Clerk and
Ex-Officio Recorder

C E R T I F I C A T E

STATE OF ARKANSAS

COUNTY OF POLK

I, Mrs. M. M. Martin, Circuit Clerk and ex-Officio Recorder within and for the above county and state, hereby certify that the attached instrument is a true and complete copy of the Assignment from J. R. Wood to S. Austin Wier, as same appears of record in Mining Record "G" at pages 137-138, now on file in my office.

IN TESTIMONY WHEREOF I hereunto set my hand and affix the seal of said Court, at Mena, Arkansas, this 19th day of March, 1 9 5 2 .

Mrs M M Martin

Circuit Clerk & Ex-Officio Recorder

Item #4 Exhibit A

FOR AND IN CONSIDERATION OF $1.00 and other good and sufficient consideration, the undersigned representing himself to be the true and lawful owner of the property hereinafter described, hereby gives and grants unto S. Austin Wier, his heirs and assigns, the right and option to purchase the entire right and title in and to said property within three months from and after the date hereof for the further payment therefore of the sum of Four Hundred ($400.00) Dollars.

Such sale is conditioned that:

1. There shall be paid to the undersigned the sum of Seven (7¢) cents on each ton of raw ore hereafter removed from such property for milling or marketing. Royalty paid to the undersigned is in no case to be less than $200.00 a year whether or not the property is actively mined.

2. Undersigned shall have the right to remove timber from such property.

The said property is described thus:

Smoke Rock No. 1 unpatented lode mining claim was located July 1, 1950 and recorded at Page 340, Book H, in Polk County Court House. Beginning in Smoke Rock Creek this claim runs 1500 feet east and includes the west end of Smoke Rock Mountain where Bill Hixon did some mining work.

Smoke Rock No. 2 unpatented lode mining claim was located July 1, 1950 and recorded in Book H, Page 340 in Polk County Court House. This claim begins in Smoke Rock Creek at the west end line of Smoke Rock No. 1 and runs 1500 feet west.

W. D. Ashcraft
Isom Avants

ACKNOWLEDGMENT

STATE OF ARKANSAS
COUNTY OF POLK ss

BE IT REMEMBERED, That on this day came before me the undersigned, a Notary Public, within and for the County aforesaid, duly commissioned and acting, Isom Avants, to me well known as the grantor in the foregoing instrument, and stated that he had executed the same for the consideration and purposes herein mentioned and set forth.

WITNESS my hand and seal of such Notary Public on this 22nd day of November, 1950.

SEAL
My commission expires
4-20-1953

Cordelia Liles

ACKNOWLEDGMENT

STATE OF ARKANSAS
COUNTY OF POLK SS

BE IT REMEMBERED, That on this day came before me the undersigned, a Notary Public within and for the County aforesaid, duly commissioned and acting, W. D. Ashcraft, to me well known as the grantor in the foregoing instrument, and stated that he had executed the same for the consideration and purposes herein mentioned and set forth.

WITNESS my hand and seal of such Notary Public on this 22nd day of November, 1950.

SEAL
My commission expires
4-20-1953

Cordelia Liles

CERTIFICATE OF RECORD

STATE OF ARKANSAS
COUNTY OF POLK

I, Mrs. M. M. Martin, Circuit Clerk and Ex-Officio Recorder for the County aforesaid, do hereby certify that the annexed and foregoing instrument of writing was filed for record in my office on the 22nd day of November, 1950, A. D., at 9:30 o'clock A. M., and the same is now duly recorded with the acknowledgments and certificates thereon, in Vol. "G" of the Mining Records, Page 135.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of said court this 22nd day of November, 1950.

SEAL

Mrs. M. M. Martin
Circuit Clerk and
Ex-Officio Recorder

- - - - - - - - - - -

C E R T I F I C A T E

STATE OF ARKANSAS
COUNTY OF POLK

I, Mrs. M. M. Martin, Circuit Clerk and Ex-Officio Recorder within and for the above county and state, hereby certify that the attached and foregoing instrument is a true and complete copy of the Option from W. D. Ashcraft and Isom Avants to S. Austin Wier, as same appears of record in Mining Record "G" at page 135, now on file in my office.

IN TESTIMONY WHEREOF, I hereunto set my hand and affix the seal of said Court, at Mena, Arkansas, this 19th day of March, 1 9 5 2 .

Mrs M M Martin

Circuit Clerk and
Ex-Officio Recorder

Item #6 Exhibit A

Chenoweth Mines & Met[illegible]s
88 Claims

MF-200
(June 1951)

DMEA
Docket No. XXX 2299
Commodity Manganese
I DME - 280

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

EXPLORATION PROJECT CONTRACT [1]

It is agreed this _____ day of _____, 195__, between the United States of America, acting through the Department of the Interior, Defense Minerals Administration, hereinafter called the "Government," and [2] Inland Mining Corporation, a corporation founded and existing under the laws of the State of Delaware, and whose address is 523 Republic Bank Building, Dallas, Texas.

hereinafter called the "Operator," as follows:

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

2. *Operator's property rights.* The exploration project shall be conducted on that certain property situated in the State of Arkansas, County of Polk described as follows: [3]

See "Appendix A"

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

(a) ~~That he is the sole owner, in possession and entitled to possession, and that the property is subject only to the following claims, liens, or encumbrances as to each of which the subordination agreement of the holder is attached:~~

~~See "Appendix A"~~

See "Appendix A"

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

3. *Exploration project.* The Operator, within 30 days from the date of this contract shall commence work on a project of exploration for [5] Manganese; shall prosecute the work efficiently, expertly, in a workmanlike manner, in accordance with good mining standards, with suitable and adequate equipment, materials, and labor, all properly designed to bring the project to completion within a period of [6] twelve (12) months from the date of this contract. The exploration project and the work to be performed are more fully described on Exhibit "A" attached hereto, which, with any maps or drawings thereto attached, is made a part of this contract.

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

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

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

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

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

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

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

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

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

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

13. *Payment to the Operator.* The monthly progress report (invoice), to the extent approved by the Government, shall be processed for payment by the Government. Payment shall be made in the amount of 75 percent of the approved costs incurred; *Provided,* That the aggregate total of all sums paid by the Government under this agreement shall not exceed $75,000.00, which is 75 percent of the agreed estimated total cost of this project, $100,000.00.

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

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

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

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

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

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

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

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

(Operator)

By ---

By ---

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

Appendix A

DMEA 2299

Description of property

One hundred and sixty-seven (167) unpatented mining claims, being composed of the following: The "Gold Bug Group" of six (6) claims; the "Smoke Rock Group" of four (4) claims; claims numbered 26, 27, 28 and 29 of the "AMerican Group" of twenty-nine (29) claims; the "Sugartree Group" of fifteen (15) claims; the "Caddo Group" of eight (8) claims; the "Austin Group" of twenty-five (25) claims; the "Cossatat Group" of sixteen (16) claims; the "Sugarstick Group" of six (6) claims; the "Short Creek Group" of thirty (30) and the "Moody Group" of fifty-three (53) claims, all lying, being and situated in Townships 3 and 4 South; Ranges 29 and 30 West, in Polk County, Arkansas, all as shown on the two maps entitled "Property location map No. I", and "Property location map No. 2" attached hereto and made a part thereof.

Section 2 (b)

2(b) The Operator is the lessee, in possession and entitled to possession of the following claims, which are hereinabove described; the subordination agreements of the lessor being hereto attached.

Exploration Project Contract

Inland Mining Corporation

Docket No. DMEA 2299

Exhibit "A"

Statement of Work

The Operator is to investigate, by surface exploration, the extent and metal content of certain manganese occurrences on 167 unpatented lode mining claims in Polk County, Arkansas.

The manganese occurs as an oxide replacement at and below the contact of the lower and middle members of the Arkansas Novaculite. The exploration will be concentrated in areas where the formations have been fractured or complexly folded and where they lie at or near the existing land surface.

The Operator has selected six (6) sites for exploration. These are shown herein under "Stage I", and consist of "projects" numbered 1 to 6 inclusive. The Operator shall obtain the written consent of the Government as represented by the Executive Officer of the DMEA Field Team for "Stage I", prior to commencing work thereon.

"Stage II" has been established to cover additional "projects" which are to be submitted by the Operator to the Executive Officer of the DMEA Field Team for approval. The projects are to be drawn up in like form and manner, including competent maps, to the six (6) projects hereinafter enumerated under "Stage I". The Operator shall obtain the written consent of the Government as represented by the Executive Officer of the DMEA Field Team for "Stage II", prior to commencing work thereon.

Stage I(1)

Project 1

Site 1, Sugartree Group

(See attached Plate I, for location and layout of work)

Time Schedule (Working days)	
0 - 7	(A) Bulldoze approximately 600 lineal feet of cross-trenches located across the outcrop, approximately as shown on Plate I, the trench to be approximately 12 feet wide, to a depth sufficient to expose ore in place, or to the limit of the ability of the equipment (estimated depth, 2 to 8 feet).
7 - 14	(B) Sample, by wagon drill, 25 holes, at points to be selected within the areas expired under (A) above. These holes are to be vertical and from 10 to 25 feet deep, averaging 15 feet, for a total of 375 lineal feet. The holes are to be drilled dry and the dust therefrom collected for sampling purposes, an estimated 75 samples being taken.
14 - 22	(C) Excavate by jackhammer drilling and blasting, a longitudinal trench in the center of the trenches. This excavated trench is estimated to be 2 to 4 feet wide and 4 feet deep as a maximum. An estimated 300 feet of trench will be required. The excavated trench is to be sampled by samples cut from the side or bottom of the trench, in 10-foot sections. Approximately 30 samples will be required.

Project 2

Site 1, Caddo Group

(See attached Plate II, for location and layout of work)

0 - 7	(A) Bulldoze 8 cross-trenches, totaling approximately 400 lineal

feet, located as shown on Plate II, and being approximately 12 feet wide, to a depth sufficient to expose ore in place, or to the limit of the ability of the equipment (estimated depth, 2 to 8 feet).

7 - 15 (B) Sample the ore horizon, in depth, by wagon drilling 16 holes at points to be selected within the areas exposed under (A) above. These holes are to be vertical and from 10 to 25 feet deep, aggregating an estimated total of 250 feet. The holes are to be drilled dry and the dust therefrom collected for sampling purposes. An estimated 75 samples are to be taken.

15 - 22 (C) Excavate an estimated 250 lineal feet of trench, by jack-hammer drilling and blasting, longitudinally in the center of the bulldozer cross-trenches, described in (A) above. The excavated trench is estimated to be from 2 to 4 feet wide and 4 feet deep as a maximum. The excavated trench is to be sampled by samples cut from the side or bottom thereof, in 10-foot sections. Approximately 30 samples are to be taken.

Project 3

Site 2, American Group

Project 3 has been withdrawn, and is not a part of this contract.

Project 4

Site 3, American Group

Project 4, has been withdrawn, and is not a part of this contract.

Project 5

Site 4, American Group
(Excepting that portion lying within claim No. 6)

(See attached Plate IV, for location and layout of work)

0 - 8 (A) Bulldoze 7 cross-trenches, totaling approximately 500 lineal feet, located as shown on Plate IV, and being approximately 12 feet wide, to a depth sufficient to expose ore in place or to the limit of the equipment (estimated depth, 2 to 8 feet).

8 - 15 (B) Sample the ore horizon, in depth, by wagon drill. An estimated 25 holes are to be selected at points within the area exposed under (A) above. The holes are to be vertical, and range from 10 to 25 feet in depth, and aggregate an estimated total of 375 feet. The holes are to be drilled dry and the dust therefrom collected for sampling purposes. An estimated 75 samples are to be taken.

15 - 22 (C) Excavate an estimated 250 lineal feet of trench by jack-hammer drilling and blasting, longitudinally in the center of the bulldozer cross-trenches, described in (A) above. The excavated trench is estimated to be 2 to 4 feet wide and 4 feet deep as a maximum. The excavated trench is to be sampled by samples cut from the side or bottom thereof, in 10-foot sections. Approximately 20 samples are to be taken.

Project 6

Site 5, American Group

(See attached Plate IV, for location and layout of work)

0 - 7 (A) Bulldoze 7 cross-trenches, totaling approximately 400 lineal feet, located as shown on Plate IV, and being approximately 12 feet wide, to a depth sufficient to expose ore in place, or to

the limit of the ability of the equipment(estimated depth, 2 to 8 feet).

7 - 8 (B) Strip, by bulldozing, the alluvium to bedrock along the outcrop for an estimated 100 feet over a width of an estimated 25 feet as shown on Plate IV, for purposes of geological inspection and examination.

8 - 15 (C) Sample the ore horizon, in depth, by wagon drill. An estimated 20 holes are to be selected at points within the area exposed under (A) and (B) above. The holes are to be vertical and from 10 to 25 feet deep, and aggregate an estimated total of 300 feet. The holes are to be drilled dry and the dust therefrom collected for sampling purposes. An estimated 60 samples are to be taken.

15 - 22 (D) Excavate an estimated 300 lineal feet of trench by jack-hammer drilling and blasting, longitudinally in the center of the bulldozer cross-trenches, described in (A) above. The excavated trench is estimated to be 2 to 4 feet wide and 4 feet deep as a maximum. The excavated trench is to be sampled by samples cut from the side or bottom thereof, in 10-foot sections. Approximately 20 samples are to be taken.

(1) As indicated in Section 4 of the contract, all subcontracts are subject to approval by the Government in writing.

Estimated Cost of Stage I

Fixtures and Improvements

Not applicable

Operating Equipment

To be purchased

1 - Jackhammer, new, wet-drilling type		$ 360.00*
To be rented		
1 - 250 cfm Jaeger Diesel portable air compressor at $500 per month for 3 months		1,500.00*
To be furnished by the Operator		
1 - International "TD24" Crawler-type tractor with bulldozer attachment, value $24,000, depreciation $400 per month for 3 months	1,200.00	
1 - 250 cu.ft. per minute diesel powered "Jaeger" portable air compressor, value $6,700, depreciation $111.67 per month for 3 months	335.00	
1 - "Chicago-Pneumatic" wagon drill complete, value $2,600, depreciation $43.33 per month for 3 months	130.00	
2 - Jackhammers, complete, value $720, depreciation $12 for 3 months	36.00	
1 - "Jeep" pick-up truck, four-wheel drive, with front-mounted winch, value $2,000, depreciation $33.33 per month, for 3 months	100.00	
1 - "Jeep" station wagon, four-wheel drive, value $2,000, depreciation $33.33 per month, for 3 months	100.00	
1 - Chevrolet truck, 1950, one-ton capacity, flat-bed, value $1,000, depreciation $16.67 per month for 3 months	50.00	

All necessary surveying, drafting and office equipment, including transit, calculator, typewriter, etc., value $2,000, depreciation $33.33 per month for 3 months	100.00	2,051.00*

The monthly depreciation allowance is chargeable only for the months in which the Operator's equipment is used for the benefit of the project.

Labor and Supervision

1 - Tractor operator @$12.00/shift, 55 shifts	660.00	
3 - Drill operators @$10.00/shift, 55 shifts	1,650.00	
8 - Laborers @$8.00/shift, 55 shifts	3,520.00	
2 - Samplers @$10.00/shift, 55 shifts	1,100.00	
1 - Foreman @$14.00/shift, 55 shifts	770.00	
1 - Resident geologist(2) @$400/Mo., 3 months	1,200.00	
1 - Engineering assistant @$300/Mo., 3 months	900.00	
1 - Stenographer @$175/Mo., 3 months	525.00	
1 - Bookkeeper @$200/Mo., 3 months	600.00	
1 - Consulting geologist(3) @$90 per diem, fee basis (which sum includes all traveling and incidental expenses) for not to exceed 20 days of the first month and 5 days each for the second and third months. Total, for 3 months, 30 days @$90	2,700.00*	
1 - Manager (4) - (Salary to be paid by the Operator)	------	
Compensation, OAB, FUI, estimated at 10%	1,175.00	14,800.00*

(2) The resident geologist shall advise the manager regarding daily work and shall be responsible for securing representative samples of the deposit, and for their subsequent handling. He, with his assistant, shall also prepare and keep up-to-date the project maps which shall show the progress of the work, the location of samples taken, including logs of the wagon drill holes, and

the analyticial results, and shall prepare and transmit copies thereof with the Operator's Monthly Report as required under Section 12 of the exploration contract. The resident geologist shall also make the surveys and maps essential to Step II, at the direction of the consulting geologist.

(3) The consulting geologist shall examine the progress of the exploration from a geological standpoint, direct the resident geologist in the maintenance of the project maps, select new project sites and direct the mapping thereof. He shall prepare a report on the geological phases of the work done under Stage I and help prepare the data pertinent to Stage II, with the assistance of the resident geologist and manager.

(4) The manager shall be in full charge of the work and have full responsibility therefor.

Rehabilitation and Repairs(5)

Repair of equipment, estimated for 3 months	789.00*

(5) Repair and maintenance items are to be charged against the project only as incurred and spent while the equipment is working on the project.

Material and Supplies

Diesel fuel @$24 per day, $528 per month for 2-1/2 months	1,320.00
Gasoline (jeep and truck), $60 per month for 3 months	180.00
Lubricating oil, compressor oil, drilling machine oil, and greases, $80 per month, for 3 months	240.00
Powder, caps and fuse, estimated at $75 per project, or $150 per month, for 2-1/2 months	375.00
Assaying(6) (including sample sacks and transportation), estimated at	2,500.00
Drilling bits, estimated at 30¢ per foot of hole drilled, (1500 feet per month) $450 per month for 3 months	1,350.00

Drill steel, hose, line-oilers, and other accessory drilling supplies, estimated at	1,000.00	
Tires and tubes (jeep and truck) estimated at	150.00	
Office supplies and blueprinting estimated at	300.00	
Hand tools, wrenches, shovels, loading sticks, etc.	85.00	7,500.00*
(6) All samples are to be analysed for iron and manganese. A composite sample is to be made from all the samples taken from a single trench, and analysed for iron, manganese, silica, alumina, and phosphorous. A further composite made by compositing five (5) trench composite and is to be analysed for cobalt.		
TOTAL AMOUNT OF STAGE I		27,000.00*

Stage II

Stage II will be undertaken only after the completion of Stage I to the satisfaction of and approval by the Government, which approval will be dependent upon the results obtained in Stage I.

All work which may be eligible under Stage II will be composed of such projects as are hereinafter submitted by the Operator to the Executive Officer of the DMEA Field Team.

The Operator shall have the "projects" drawn up in like form and manner, including competent maps, to the six (6) projects enumerated under Stage I.

The Operator shall obtain the written consent of the Government as represented by the Executive Officer of the DMEA Field Team for "Stage II" prior to commencing work on any part thereof.

The total expenditure of Stage II, as may hereinafter be approved by the Government upon acceptance of Stage I, and the acceptance of additional projects as herein above provided for, shall not exceed

	$73,000.00*
	$100,000.00
Government participation 75 per cent of the above, or	$ 75,000.00*

* The items marked thus (*) indicate the maximum amounts allowable; the component figures of which are estimated amounts and are variable by the Operator provided their aggregate total does not exceed the applicable marked figure.

No additional buildings, installations, fixtures, equipment or improvements to be purchased, erected, rented, repaired or rehabilitated, except as listed above, are to be allowed as costs under this contract.

Underground and/or surface maps or sketches showing the progress of the exploration, with assays of samples taken concurrently with the advance, where warranted, are to be included in the monthly reports required under section 12 of the project contract. In case such maps or sketches are not submitted, the Government at its discretion may have the necessary work performed and charge the same to the contract.

The Operator may, at his own expense, obtain leases or make mining locations upon lands suitable for additional exploration projects and the said lands may become a part of this contract by amendment.

Re. Inland DMEA 2299

The information requested in questions 3, 4, 5, 6, 7, 8, and 9 below should be answered specifically and in detail, as this information will be attached to and incorporated as part of the Exploration Project Contract, if such contract is entered into with you by the Government.

ANSWER EACH QUESTION ON SEPARATE SHEETS OF PAPER AND SUBMIT A COPY OF EACH ANSWER FOR EACH COPY OF YOUR APPLICATION.

3. (*a*) Describe fully the proposed work and give the total cost of the project.

   (*b*) State the time required to start the project and to complete it.

4. Submit a map or sketch of the property involved showing a plan (and cross section, if needed) of the present mine workings and the *location of the proposed exploration work* as related to geologic features, such as contacts, veins, ore-bearing beds, etc.

5. Furnish an itemized list of existing facilities, buildings, installations, and fixtures with a statement of the cost of any necessary rehabilitation or repairs to put into useful and operable condition.

6. Furnish a detailed list of additional facilities, buildings, and fixtures to be purchased, installed, or erected by you, with the estimated cost of each item.

7. Furnish a detailed list of operating equipment, separated into items to be—

   (*a*) Rented

   (*b*) Purchased

   (*c*) Furnished by you

   with the rental, purchase price, or depreciation of each item, as the case may be, to be charged as a cost of the project.

8. Furnish an itemized schedule of labor, by numbers and classes (miners, muckers, etc.) and of supervisors by numbers and positions, with the maximum wages or salaries to be paid to each.

9. Furnish a detailed list with estimated cost of each item for materials, supplies, engineering, assaying, accounting, power, water, utilities, and any other items not provided for above.

10. (*a*) How much are you prepared to invest in the proposed project?

    (*b*) Is this amount sufficient to pay your part of the cost of the project, in accordance with the regulations on Government participation (Sec. 9 of MO–5)?

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

CERTIFICATION

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

(Name of company)	By (Signature of authorized official)
(Date)	(Title)

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

U. S. GOVERNMENT PRINTING OFFICE 16—64067-2

Form MF-103
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

MF-103 Should Be Filed With General Technical Data Form MF-100

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

Not To Be Filled in by Applicant

Docket No. .....
Metal or Mineral .....
Date Received .....
Amount $.....
Participation (Government %)
.....

Name and address of applicant

Date .....

If you have already filed MF-100, give date filed ....., type of assistance requested .....,

DMA Docket Number (if available) .....

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four copies each, of the signed application form, General Technical Data Form MF-100, and answers to questions as specified, to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive office thereof, with your name and address on each sheet of the application and all accompanying papers. If you have previously filed MF-100, it is not necessary to file it again. However, you should indicate in space provided above the type of assistance previously applied for (loans, procurement contracts, etc.) and DMA Docket Number, if available. *When a question is inapplicable it should be so stated in the form.* Additional sheets should be attached in answering any questions or in supplying additional information. IF YOU CANNOT ANSWER A QUESTION, SO STATE.

1. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property.

   (*b*) If you are not the owner of the property, submit a copy of the lease, purchase option, or other agreements under which you are authorized to operate the property with each copy of your application.

   (*c*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.

   NOTE: (1) If both areas are the same, so state. The only obligation to repay the Government is from the net earnings from any commercial discovery made in the area specified in (*c*) above in which the exploration is to be conducted, and the expenditure of funds which may be charged as costs of the project must be limited to that area or to work necessary to perform the exploration in that area.

   (2) If applicant is not the owner of the property or if there are any liens or encumbrances against the property, copy of agreements of claimants, lienors, encumbrances, and lessors subordinating their interests in the property to the interest of the Government under the Exploration Project Contract will be required for attachment to the Contract.

2. (*a*) What metals or minerals do you expect to find?

   (*b*) Furnish statement of the geologic features of your property, giving type of ore deposit and reasons for expecting to find commercial ore bodies. Illustrate with maps or sketches. If you have a geologic or engineering report, or assay maps showing width and grade, please send them with application, stating whether or not you wish to have them returned.

Form 2299X-10921

BOAR TUSK GROUP

MINING LEASE

KNOW ALL MEN BY THESE PRESENTS:

This agreement made and entered into this 1st. day of August, 1952, by and between Cecil B. Chenoweth, Agent (hereinafter called LESSEE) and

S. A. Wier

(hereinafter called LESSOR(~~S~~)),

W I T N E S S E T H:

(1) That for and in consideration of the sum of One ($1.00) Dollar, receipt of which is hereby acknowledged, the mutual agreements hereinafter recited, and in further consideration of the royalties herein to be paid by the LESSEE, the LESSOR(~~S~~) Hereby let(s) and demise(s) unto the LESSEE the right to mine for manganese or other metallic ores (together with all other materials necessarily removed in said mining) the unpatented lode mining claims situated in the County of Polk, State of Arkansas, together with all appurtenances thereunto belonging, described on the instrument attached hereto designated as Exhibit "A" and made a part hereof and incorporated herein. To have and to hold unto the said LESSEE, his heirs and assigns for a term of five (5) years from the date hereof and as long thereafter as manganese ore is produced or mined from said claims by LESSEE, his heirs or assigns.

(2) LESSEE hereby agrees that during the term of this lease, he will do assessment work on the above described claim in compliance with statutory requirements for the benefit of the LESSOR(~~S~~) of at least One Hundred ($100.00) Dollars annually on or before June 30 of each year. The first assessment work under this lease shall be done on or before June 30, 1953. LESSEE further agrees to execute and file with the Circuit Clerk of the County in which the claim lies affidavits of assessment work done on the said mining claim for the benefit of the LESSOR(~~S~~). LESSEE may enter upon the said mining claims for exploratory and mining purposes and may take whatever steps he deems necessary in accordance with good mining practice to explore or mine said claim.

(3) In addition to doing the above mentioned assessment work, LESSEE agrees to pay to LESSOR(~~S~~) the sum of seven (7¢) cents per ton as royalty on all raw manganese ore removed from the said claims within sixty (60) days after said ore is removed; provided that it is hereby understood and agreed that as long as the aforementioned assessment work is done by the LESSEE that this lease shall remain in full force and effect and that LESSEE is under no obligation to mine the claim or to remove and sell the ore thereon.

(4) LESSEE agrees to furnish upon written request of LESSOR(~~S~~) records and accounts of the mining or exploratory activity on the said claims to the LESSOR(~~S~~).

(5) This lease may be terminated by the LESSEE at any time during the term thereof by giving notice of such termination to the LESSOR(~~S~~) at least sixty (60) days prior to the final date for doing the required assessment work for the mining year in which the lease is terminated. The words "mining year" as used in this paragraph shall be construed as commencing on July 1 and ending on June 30 and does not mean a calendar year.

(6) LESSOR(~~S~~) hereby agree(s) that the said LESSEE may assign this lease or sub-lease the mining claims under such terms as he sees fit; provided that the provisions of Paragraph (2) hereof shall be carried out by the said assignee or sub-lessee and provided further that if manganese ore is removed from the said mining claims that said

assignee or sub-lessee shall assume the obligation to pay and shall pay the seven (7¢) cents per ton royalty provided for in Paragraph (3) hereof.

(7) This agreement shall be binding upon the heirs, executors, administrators, successors and assigns of all parties hereto.

IN WITNESS WHEREOF the parties hereto have executed this agreement on this 1ST. day of August, 1952.

Cecil B. Chenoweth

Cecil B. Chenoweth, Agent, LESSEE

S. A. Wier

S. A. Wier

LESSORS

ACKNOWLEDGMENT

STATE OF ~~ARKANSAS~~ TEXAS
COUNTY OF Dallas

On this day personally appeared before the undersigned, a Notary Public in and for the County and State aforesaid, duly qualified and acting, S. A. Wier, to me well known to be the person(s) whose name(s) appear as Lessor(s) in the foregoing instrument, and stated that he had executed the same for the consideration, uses and purposes therein mentioned and set forth.

IN WITNESS WHEREOF I have hereunto set my hand and seal as such on this 29th day of August, 1952.

Maureen Massingill

Notary Public

(MAUREEN MASSINGILL)

ACKNOWLEDGMENT

STATE OF ARKANSAS
COUNTY OF Polk

On this day personally appeared before the undersigned, a Notary Public in and for the County and State aforesaid, duly qualified and acting, Cecil B. Chenoweth, to me well known to be the person whose name appears as Lessee in the foregoing instrument, and stated that he had executed the same for the consideration, uses and purposes therein mentioned and set forth.

IN WITNESS WHEREOF I have hereunto set my hand and seal as such on this 15th day of August, 1952.

Clarice E. Decker

Notary Public

My commission expires July 28, 1955.

EXHIBIT "A"

(Boar Tusk Group)

Claims numbered (1) through (12) inclusive, known as the Boar Tusk Group and filed for record in Book "G", Pages 232 to 239, inclusive of the mining records of the Recorder for Polk County, Arkansas.

The original locator of the above claims was S. A. Wier.

Form 2299X-10922

BOAR TUSK GROUP

MINING LEASE

KNOW ALL MEN BY THESE PRESENTS:

This contract and lease made by and between Cecil B. Chenoweth, Agent, hereinafter called LESSOR, and Inland Mining Corporation, a corporation duly chartered under the laws of the State of Delaware, hereinafter called LESSEE,

W I T N E S S E T H:

WHEREAS, said LESSOR owns, controls, claims or holds under lease those certain mining claims situated in Polk County, Arkansas, described in the attached Exhibit "A", said exhibit being made a part hereof, and all of which claims are hereinafter known as "mining property"; and said LESSEE desires to obtain leasehold rights in said property;

NOW THEREFORE, in consideration of the sum of One ($1.00) Dollar, in hand paid by LESSEE to LESSOR, the receipt of which is hereby acknowledged, and the hereinafter recited reservations of interest in the property, and other good and sufficient consideration, including the mutual covenants and agreements herein contained, the LESSOR has leased, let and demised, and by these presents does lease, let and demise unto the said LESSEE the exclusive right to mine and operate solely for manganese and other metallic ores (together with all other materials necessarily removed in such mining), all of the mining property and claims described in said Exhibit "A", subject to the original royalty or delay rentals required to be paid to LESSOR's predecessors in interest and further subject to the reservations, conditions, terms, restrictions and agreements hereinafter set forth, to-wit:

(1) Subject to the other provisions hereof, the term of this lease shall be for five (5) years from the date hereof, and as long thereafter as manganese is produced or mined from said land by the LESSEE, its successors or assigns.

(2) LESSOR reserves unto himself absolutely all minerals other than metallic minerals lying on, in and under said mining property.

(3) LESSOR reserves unto himself and his respective heirs and assigns, as royalty, one-fourth (1/4) of all manganese and of all other metals, intending that such reservation shall cover and extend to all commercial materials produced, saved and made marketable from said mining property. Such royalty reservation in LESSOR is and shall be separate and apart and in addition to the original royalty or delay rentals required to be paid to LESSOR's predecessors in interest, and LESSEE assumes the obligations to pay and shall timely pay such original royalty or delay rentals of seven (7¢) cents per ton of raw manganese ore.

(4) LESSEE shall begin with reasonable promptness and continue thereafter with due diligence the exploration of said property in an orderly manner. LESSEE shall furnish reports to LESSOR, upon request, in appropriate written form, setting forth the information revealed by such exploration. LESSEE shall begin as early as practicable in accordance with its needs the mining of said property with the purpose and object of producing manganese therefrom, and shall continuously thereafter mine and remove from the property all ores commercially profitable for such purpose, and shall commercially process, clean, condition and concentrate all marketable products and by-products derived from such mining operations, all such commercially recovered materials, products and by-products produced and saved from said mining and processing being known herein as "products."

(5) LESSEE shall be obligated to process, clean, condition and concentrate all marketable products and by-products derived from mining operations on the mining properties and shall deliver over to LESSOR, his nominees and assigns, one-fourth (1/4) of all of the commercially recovered materials, products and by-products produced and saved from said mining and processing operations, as reserved royalty, free of all costs and expenses, and such deliveries shall be made in kind if LESSOR

so elects; if such election be not made, from time to time, with at least thirty (30) days notice in writing thereof, then LESSEE shall pay to LESSOR a sum in cash equal to the then established market value of such products. Delivery to LESSOR, his nominees or assigns of the said reserved royalty shall be made on or before the 20th day of each calendar month immediately following that month in which the same shall have been reduced to proper and acceptable commercial form, and shipped from the conditioning plant of LESSEE.

(6) LESSEE shall keep full and accurate records and books of account, showing the quantity of all ores mined and of all products derived therefrom, together with the market value of the latter, the amounts thereof shipped, the amounts thereof sold, and the sales volume thereof in money; and all such records and books shall be open to inspection by LESSOR and his agents at all reasonable business hours. Not later than the 20th day of each calendar month, LESSEE shall make reports in writing to LESSOR stating the quantity of ore mined, the quantity of ore processed, and the quantity, character and market value of all products derived therefrom and shipped during the calendar month immediately preceding the making of such report.

(7) LESSEE shall work and mine the leased property in the most effective, workmanlike and proper manner, according to the most approved and suitable methods and practices of modern mining and especially of modern strip mining, and in such manner as to ultimately recover the greatest amount of merchantable products reasonably recoverable from said property during the term of this lease; and during such term LESSEE shall allow to LESSOR full access to said property and to all mining operations thereon and also to all mills, plants and conditioning establishments processing ore from the leased property and operated by LESSEE or for its benefit wherever situated.

(8) LESSEE shall be privileged to build, erect, operate, remove, transport and employ any buildings, structures, bridges, dams, roads, machinery and equipment at any locations on the leased property as may be considered desirable, necessary or expedient thereby; and LESSEE may take from such property all materials and waters necessary in mining and processing ores removed therefrom.

(9) As part of the consideration for this lease and for the benefit of the LESSOR, LESSEE shall timely, fully and properly do all assessment work necessary and requisite by law and custom to adequately maintain in full force and effect all mining claims included in the leased property, and shall make and timely file full and complete statements and evidences of the assessment work done.

(10) At the option and election of LESSOR, this lease may be cancelled in the event that LESSEE is placed in receivership, or a petition in bankruptcy is filed against LESSEE, whether voluntary or involuntary, or if LESSEE makes a composition with creditors.

(11) This lease shall not be assigned by LESSEE unless permission for such assignment be given by LESSOR in writing; and LESSEE shall make no sub-lease or sub-leases concerning the mining property unless and until approval therefor has been given by LESSOR in writing.

(12) This lease shall inure to the benefit of and be binding upon the parties hereto and upon their respective heirs, assigns and successors.

WITNESS THE HANDS OF THE PARTIES on the 1st. day of August, 1952.

Cecil B. Chenoweth

Cecil B. Chenoweth, Agent LESSOR

INLAND MINING CORPORATION

By Cecil B. Chenoweth

Vice President-Gen. Manager LESSEE

ATTEST:

S.A. Wier, Secretary

EXHIBIT "A"

(Boar Tusk Group)

Claims numbered (1) through (12), inclusive, known as the Boar Tusk Group and filed for record in Book "G", Pages 232 to 239, inclusive, of the mining records of the Recorder for Polk County, Arkansas.

The original locator of the above claims was S. A. Wier.

ACKNOWLEDGMENT

STATE OF ARKANSAS
COUNTY OF Polk

On this day personally appeared before the undersigned, a Notary Public in and for the County and State aforesaid, duly qualified and acting, Cecil B. Chenoweth, to me well known to be the person whose name appears as Lessor in the foregoing instrument, and stated that he had executed the same for the consideration, uses and purposes therein mentioned and set forth.

IN WITNESS WHEREOF I have hereunto set my hand and seal as such on this 15th day of August, 1952.

Clarice E. Decker
Notary Public

My commission expires July 28, 1955.

ACKNOWLEDGMENT

STATE OF ARKANSAS
COUNTY OF Polk

On this 15th day of August, 1952, before me, a Notary Public in and for the County and State aforesaid, appeared in person the within named Cecil B. Chenoweth, being the 1st. Vice President of Inland Mining Corporation, a corporation, to execute the above instrument, to me personally known, who stated that he is the 1st. Vice President of said Inland Mining Corporation, and was duly authorized in his capacity to execute the foregoing instrument for and in the name and behalf of said corporation, and further stated and acknowledged that he had so signed, executed and delivered said foregoing instrument for the consideration, uses and purposes therein mentioned and set forth.

IN TESTIMONY WHEREOF I have hereunto set my hand and seal this 15th day of August, 1952.

Clarice E. Decker
Notary Public

My comm expires July 28, 1955.

ACKNOWLEDGMENT

STATE OF _____
COUNTY OF _____

On this _____ day of _____, 195___, before me, a Notary Public in and for the County and State aforesaid, appeared in person the within named _____, being the _____ of Inland Mining Corporation, a corporation, to execute the above instrument, to me personally known, who stated that he is the _____ of said Inland Mining Corporation, and was duly authorized in his capacity to execute the foregoing instrument for and in the name and behalf of said corporation, and further stated and acknowledged that he had so signed, executed and delivered said foregoing instrument for the consideration, uses and purposes therein mentioned and set forth.

IN TESTIMONY WHEREOF I have hereunto set my hand and seal this _____ day of _____, 195____.

_____
Notary Public

SUBORDINATION AGREEMENT AND CONSENT TO LIEN

KNOW ALL MEN BY THESE PRESENTS that:

WHEREAS, the "Undersigned" (as claimant, owner, co-owner, assignor, assignee, lessor, lessee or seller) have an interest in certain mining property in the State of Arkansas, County of Polk, hereinafter called "Property", said property being unpatented lode mining claims located on lands in the public domain; and the interest of the undersigned in said property includes the right to receive rentals and/or royalties on products mined and/or extracted therefrom; and the said property is the subject of a proposed Exploration Project Contract, hereinafter called "Contract", between the United States of America, hereinafter called the "Government", and Inland Mining Corporation, hereinafter called the "Operator"; and

WHEREAS, under certain provisions of said Contract which are set forth on the reverse side hereof, the Government will acquire certain rights and equities which do or may conflict with or be adverse to the interest of the undersigned in said property;

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

1. The Government's equity in and right to remove facilities, buildings, fixtures, and equipment, as provided in the Contract, shall prevail over and be prior and superior to any conflicting or adverse rights of the undersigned.

2. The Government's percentage royalty on net smelter returns or other net proceeds realized from ore, concentrates, or metal produced within ten (10) years from the date of the Contract, and the Government's lien for the payment of said percentage royalty shall attach to the mineral deposit and the production therefrom, in the amount of the Government's contribution, not in excess of $75,000.00, all upon the terms and conditions set forth in said Contract.

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

DATED this 1st day of August, 1952; and
EXECUTED by the "Undersigned" as claimant, owner, co-owner, assignor, assignee, lessor, lessee or seller, thus:

S. A. Wier S. A. Wier

Cecil B. Chenoweth Cecil B. Chenoweth, Agent

INLAND MINING CORPORATION

By Cecil B. Chenoweth
Vice President

BOAR TUSK GROUP

No. 2299X-A-10919

RELEVANT CONTRACT PROVISIONS

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

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

> Of net smelter returns or other net proceeds not in excess of eight dollars ($8.00) per ton of ore: One and one-half ($1\frac{1}{2}$) percent.
>
> Of net smelter returns or other net proceeds in excess of eight dollars ($8.00) per ton of ore: One and one-half ($1\frac{1}{2}$) percent, plus one-half ($\frac{1}{2}$) percent for each additional full fifty cents ($0.50) in excess of eight dollars ($8.00) per ton of ore, but not in excess of a maximum of five (5) percent.

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

OFFER

The undersigned CHENOWETH MINES & METALS, LTD., a limited partnership, acting by its sole general partner, Cecil B. Chenoweth (hereinafter called "Lessor") hereby offers exclusive leasehold mining rights to INLAND MINING CORPORATION (hereinafter called "Lessee) covering the following two (2) mining claims, described as follows, to-wit:

> Claim No. 28, situated in Section 35, Township 3 S, Range 30 W, filed for record on February 20, 1952, and duly recorded in Record Book 0, Page 228, in the Office of the County Recorder of Polk County, Arkansas.
>
> Claim No. 29, situated in Section 34, Township 3 S, Range 30 W, filed for record on February 20, 1952, and duly recorded in Record Book 0, Pages 228-229 in the Office of the County Recorder of Polk County, Arkansas.

SAID CLAIMS shall be and become a part of the "Mining Property" comprehended in that certain mining lease made by Lessor to Lessee under date of December 12, 1951, in keeping with and subject to all the terms, provisions and conditions of said original mining lease as set forth therein.

IN WITNESS WHEREOF, this instrument is executed on the 25th day of February, A. D. 1952.

CHENOWETH MINES & METALS LTD.

By Cecil B. Chenoweth
General Partner

LESSOR

ACCEPTANCE

The above offer is accepted in keeping with the provisions of the aforesaid original Mining Lease dated December 12, 1951.

IN WITNESS WHEREOF this instrument is executed.

INLAND MINING CORPORATION

By D. V. Jacobs
Vice President

LESSEE

ATTEST:

S. A. Allen
Secretary.

Office copy

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MINING LEASE

KNOW ALL MEN BY THESE PRESENTS:

That this Contract and Lease made and entered into by and between CHENOWETH MINES AND METALS, LTD., a limited partnership, of which Cecil B. Chenoweth is the sole general partner (hereinafter called "Lessor"), and INLAND MINING CORPORATION, a Delaware corporation (hereinafter called the "Lessee"),

W I T N E S S E T H :

WHEREAS, Lessor owns, controls, claims and holds those certain mining claims situated in Polk County, Arkansas described in Exhibit A hereto, said Exhibit being made a part hereof for all purposes, and all of which claims are hereinafter referred to as the "Mining Property"; and

WHEREAS, Lessee desires to obtain leasehold rights in the Mining Property:

NOW, THEREFORE, in consideration of the sum of One ($1.00) Dollar in hand paid by Lessee to Lessor, the receipt and sufficiency of which is hereby acknowledged, and for other good and sufficient consideration, Lessor has leased, let and demised, and by these presents does lease, let and demise unto Lessee the exclusive right to mine and operate solely for manganese and other metallic ores (together with all other materials necessarily removed in such mining), all of the Mining Property, subject to the original royalty and delay rentals required to be paid to Lessor's predecessors in interest as set forth in Exhibit A and FURTHER subject to the reservations, conditions, terms, restrictions and agreements hereinafter set forth, to-wit:

(1) Subject to the other provisions hereof, the term

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of this Lease shall be for fifty (50) years from the date hereof.

(2) Lessor reserves unto itself absolutely all minerals other than metallic minerals lying on, in and under the Mining Property.

(3) Lessor reserves unto itself, its successors and assigns as royalty 1/4 of all metallic bearing minerals that may be produced, saved and marketed from the Mining Property, said royalty reservation is separate and apart and in addition to the original royalty and delay rentals required to be paid to Lessor's predecessors in interest, as shown in Exhibit A, and Lessee expressly assums the duties and obligations of Lessor to timely pay such original royalty and delay rentals.

(4) Lessee shall be under no obligation whatsoever to explore, develop or mine the Mining Property.

(5) Lessee shall be obligated to process, clean, condition and concentrate all marketable products and by-products derived from mining operations on the Mining Properties and shall deliver over to Lessor, its nominees and assigns, 1/4 of all of the commercially recovered materials, products and by-products produced and saved from said mining and processing operations, as reserved royalty, free of all costs and expenses, and such deliveries shall be made in kind as Lessor so elects, and if such election be not made, from time to time, with at least 30 days notice in writing thereof, then Lessee shall pay to Lessor a sum in cash equal to the then established market value of such products. Delivery to Lessor, its nominees or assigns of the said reserved royalty shall be made on or before the 20th day of each calendar month immediately following that month in which the same shall have been reducted to proper and acceptable commercial form, and shipped from the conditioning plant of Lessee.

(6) At any time or from time to time after January 1, 1958, at the option and upon the written demand of Lessor,

its successors or assigns, Lessee shall release and reassign thereto the leasehold interests in all mining claims which are a part of the Mining Property and which are not being actually and commercially mined at the time of such demand.

(7) Lessee shall keep full and accurate records and books of account showing the quantity of all ores mined and of all products derived therefrom, together with the market value of the latter, the amounts thereof shipped, the amounts thereof sold, and the sales volume thereof in money; and all such records and books shall be open to inspection by the Lessor and its agents at all reasonable business hours. Not later than the 20th day of each calendar month, Lessee shall make reports in writing to Lessor stating the quantity of ore mined, the quantity of ore processed and the quantity,character and market value of all products derived therefrom and shipped during the calendar month immediately preceding the making of such report.

(8) Lessee shall work and mine the Mining Property in the most effective workmanlike and proper manner, according to the most approved and suitable methods and practices of modern mining, and especially of modern strip mining, in in such manner as to ultimately recover the greatest amount of merchantable products reasonably recoverable from the mining property during the term of this Lease; and during such term Lessee shall allow the Lessor full access to the Mining Property and to all mining operations thereon, and also to all mills, plants and conditioning establishments processing ore from the Mining Property and operated by Lessee or for its benefit wherever situated.

(9) Lessee shall have the right to build, erect, operate, remove, transport and use any buildings, structures, bridges, dams, roads, machinery and equipment at any location

or locations on the Mining Property; and Lessee may take from such property all wood, water and other materials necessary in mining and processing ores removed therefrom.

(10) As part of the consideration for this Lease and for the benefit of the Lessor, Lessee shall timely fully and properly do all assessment work necessary and requisite by law and custom adequately to maintain in full force and effect all mining claims included in the Mining Property, and shall make timely file full and complete statements and evidences of the assessment work done.

(11) At the option and election of the Lessor, this Lease may be cancelled in the event that Lessee is placed in receivership or a petition in bankruptcy is filed against the Lessee, whether volintary or involintary, or if Lessee makes a composition with creditors or if Lessee shall dissolve and liquidate, either volintarily or involintarily.

(12) This lease shall inure to the benefit of and be binding upon the parties hereto, their respective successors and assigns and upon Lessee.

IN WITNESS WHEREOF, the parties hereto have set their hands this 12th day of December, 1951.

CNENOWETH MINES AND METALS, LTD.

By Cecil B. Chenoweth
A General Partner

THE STATE OF TEXAS)
COUNTY OF DALLAS)

On this day personally appeared before the undersigned, a Notary Public in and for the County and State aforesaid, duly qualified and acting, CECIL B. CHENOWETH, to me well known to be the person whose name appears as General Partner in the foregoing instrument, and stated that he had executed the same for the consideration, use and purposes therein mentioned and set forth.

In witness whereof, I have hereunto set my hand and seal on this 12th day of December, 1951.

Gene H. Dysert
Notary Public in and for Dallas County, Texas

My commission expires:
June 1, 1953

EXHIBIT "A"

Made a part of the foregoing Mining Lease from Chenoweth Mines & Metals, Limited, a limited partnership, as Lessor, to Inland Mining Corporation, as Lessee, dated December 12, 1951.

"Mining Property" comprehended in the foregoing lease comprises those certain eighty-eight (88) mining claims set forth and described in that certain instrument of assignment to Chenoweth Mines & Metals, Limited, dated July 21, 1951, filed for record on August 14, 1951, and duly recorded in Record Book G, pages 202-211, inclusive of the mining records of the County Recorder of Polk County, Arkansas.

Each claim represents an unpatented Lode Mining Claim covering approximately twenty (20) acres of land, subject to original royalty of seven cents (7¢) per ton of crude ore, payable as mined, to the original locators of such claims, their heirs and assigns, as provided in the aforesaid assignment dated July 21, 1951.

ACCEPTANCE

INLAND MINING CORPORATION, herein called "Lessee" and named as such in the foregoing Mining Lease from Chenoweth Mines & Metals, Ltd., called "Lessor" herein, such lease being dated December 12, 1951, acting by and through its undersigned corporate officers in accordance with that certain resolution of its Board of Directors adopted on December 11, 1951 authorizing the acceptance thereof, hereby ACCEPTS the foregoing Mining Lease and agrees to the terms thereof.

THIS ACCEPTANCE, evidencing agreement of Lessee as aforesaid, shall have effect as of December 12, 1951, notwithstanding that the foregoing instrument of lease was presented to and accepted by the undersigned Lessee subsequent to said date.

IT IS FURTHER AGREED that in the event Lessor should, subsequent to the date of the foregoing original Mining Lease and within one year from such date, proffer, offer and tender to Lessee, subject to all of the terms, provisions and conditions of said original Mining Lease, exclusive leasehold mining rights in additional mining claims on land in Polk County, Arkansas, over and above the leasehold rights in the 88 claims identified in the attached Exhibit "A" as initially comprising the "Mining Property" comprehended by the foregoing lease, then and in such event and/or events, all such rights in each such additional Mining claim so proffered may be made a part of this instant Mining Lease, at the option of Lessee, upon the making by the Lessee of a written instrument of acceptance which shall thereupon become a part of this agreement as fully and to the same extent as though the said subsequent leasehold rights covering newly identified claims were granted to Lessee by being incorporated in the foregoing Mining Lease as of the date on which it is considered to have become effective, to-wit, December 12, 1951.

IN WITNESS WHEREOF, the foregoing instrument is signed.

INLAND MINING CORPORATION

By _____
Vice President

L E S S E E

ATTEST:

_____
Secretary.

Official copy

MINING LEASE

KNOW ALL MEN BY THESE PRESENTS THAT: This contract and lease made by and between Estill, S. Heyser, Jr., Mrs. Estill S. Heyser, Sr., a widow, Cecil B. Chenoweth, S. Austin Wier, A. P. Simons, David P. Stephenson, Claude E. Heard, W. C. Jackson, Jr., Morgan G. Huntington, John A. Pace, Joel W. Haden and Edward Marcus, hereinafter called LESSORS, and Inland Mining Corporation, a corporation duly chartered under the laws of the State of Delaware, hereinafter called LESSEE, WITNESSETH THAT:

WHEREAS, said Lessors own, control, claim or hold under lease those certain mining claims situated in Polk County, Arkansas, described in the attached Exhibit "A", said exhibit being made a part hereof, and all of which claims are hereinafter known as "mining property"; and said Lessee desires to obtain leasehold rights in said property;

NOW THEREFORE, in consideration of the sum of One ($1.00) Dollar in hand paid by Lessee to Lessors, the receipt of which is acknowledged, and the hereinafter recited reservations of interest in the property, and other good and sufficient consideration, including the mutual covenants and agreements herein contained, the Lessors have leased, let and demised, and by these presents do lease, let and demise unto the said Lessee the exclusive right to mine and operate solely for manganese and other metallic ores (together with all other materials necessarily removed in such mining), all of the mining property and claims described in said Exhibit "A", subject to the original royalty and delay rentals required to be paid to Lessors' predecessors in interest as set forth in said Exhibit and further subject to the reservations, conditions, terms, restrictions and agreements hereinafter set forth, to-wit:

(1) Subject to the other provisions hereof, the term of this lease shall be for fifty (50) years from the date hereof.

(2) Lessors reserve unto themselves absolutely all minerals other than metallic minerals lying on, in and under said mining property.

(3) Lessors reserve unto themselves, their respective heirs and assigns, as royalty, one-fourth (1/4) of all manganese and of all other metals, intending that such reservation shall cover and extend to all commercial materials produced, saved and made marketable from said mining property. Such royalty reservation in Lessors is and shall be separate and apart and in addition to the original royalty and delay rentals required to be paid to Lessors' predecessors in interest, as shown in said Exhibit "A", and Lessee assumes the obligations to pay and shall timely pay such original royalty and delay rentals.

(4) Lessee shall begin with reasonable promptness and continue thereafter with all due diligence the exploration of said property in an orderly manner. Lessee shall furnish to each Lessor upon request reports, in appropriate written form, setting forth the information revealed by such exploration. Lessee shall begin as early as practicable the mining of said property with the purpose and object of producing manganese therefrom, and shall continuously thereafter mine and remove from the property all ores necessary for such purpose, and shall commercially

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process, clean, condition and concentrate all marketable products and by-products derived from such mining operations, all such commercially recovered materials, products and by-products produced and saved from said mining and processing being known herein as "products".

(5) Lessee shall deliver over to Lessors, their nominees or assigns, one-fourth (1/4) of all such products, as reserved royalty, free of all costs, and such deliveries shall be in kind, if Lessors so elect, and if such election be not made, from time to time, with at least 30 days notice of such election given in writing to Lessee, then such delivery shall be made in money of a sum equal to one-fourth of the then established market value of such products.

(6) The delivery to Lessors, their nominees or assigns, of the said reserved royalty shall be made on or before the 20th day of each calendar month immediately following that month in which the same shall have been reduced to proper and acceptable commercial form, and shipped from conditioning plant of Lessee.

(7) Beginning not later than January 1, 1952, Lessee shall mine and take from said property not less than 400,000 tons of raw ore during each calendar year; and Lessee shall make every reasonable endeavor to insure that manganiferous ore is so mined and produced preferentially; and Lessee shall treat, process, condition, clean and concentrate all raw ores taken from the property and transform the same into commercially saleable products, and shall likewise convert into saleable form such by-products derivable therefrom as may be found economically valuable and profitably saleable.

(8) At any time and times after January 1, 1958, at the option and upon the written demand of Lessors, their heirs or assigns, Lessee shall release and reassign thereto the leasehold interest in all mining claims of such property which are not being actively and commercially mined at the time of such demand.

(9) Lessee shall keep full and accurate records and books of account, showing the quantity of all ores mined and of all products derived therefrom, together with the market value of the latter, the amounts thereof shipped, the amounts thereof sold, and the sales volume thereof in money; and all such records and books shall be open to inspection by Lessors and their Agents at all reasonable business hours. Not later than the 20th day of each calendar month, Lessee shall make reports in writing to Lessors stating the quantity of ore mined, the quantity of ore processed, and the quantity, character and market value of all products derived therefrom and shipped during the calendar month immediately preceding the making of such report.

(10) Lessee shall work and mine the leased property in the most effective, workmanlike and proper manner, according to the most approved and suitable methods and practices of modern mining and especially of modern strip mining, and in such manner as to ultimately recover the greatest amount of merchantable products reasonably recoverable from said property during the term of this lease; and during such term Lessee shall allow to Lessors full access to said property and to all mining operations thereon and also to all mills, plants and conditioning establishments processing ore from the leased

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property and operated by Lessee or for its benefit wherever situated.

(11) Lessee shall be privileged to build, erect, operate, remove, transport and employ any buildings, structures, bridges, dams, roads, machinery and equipment at any locations on the leased property as may be considered desirable, necessary or expedient thereby; and Lessee may take from such property all materials and waters necessary in mining and processing ores removed therefrom.

(12) As part of the consideration for this lease and for the benefit of the Lessors, Lessee shall timely, fully and properly do all assessment work necessary and requisite by law and custom to adequately maintain in full force and effect all mining claims included in the leased property, and shall make and timely file full and complete statements and evidences of the assessment work done.

(13) At the option and election of Lessors, this lease may be cancelled in the event that Lessee is placed in receivership, or a petition in bankruptcy is filed against Lessee, whether voluntary or involuntary, or if Lessee makes a composition with creditors.

(14) This lease shall not be assigned by Lessee unless permission for such assignment be given by Lessors in writing; and Lessee shall make no sub-lease or sub-leases concerning the mining property unless and until approval therefor has been given by Lessors in writing.

(15) This lease shall inure to the benefit of and be binding upon Lessors, their heirs and assigns, and upon Lessee and its sole assignee purchasing all of its assets.

WITNESS THE HANDS OF THE PARTIES, as at Dallas, Texas, on the 23rd day of April, 1951.

INLAND MINING CORPORATION

By _____
President

ATTEST:

_____
Secretary

L E S S E E

Estill S. Heyser, Jr.

Mrs. Estill S. Heyser, Sr.

Cecil B. Chenoweth

S. Austin Wier

A. P. Simons

David P. Stephenson

Claude E. Heard

C. O. Jackson, Jr.

Morgan G. Huntington

John A. Pace

Joel W. Haden

Edward Marcus

L E S S O R S

EXHIBIT A

LIST OF MINING PROPERTY

ITEM	DESCRIPTION
(1)	Option and lease from American Manganese Company, Inc. on 25 claims, subject to delay rentals of $1000.00 per month beginning July 1, 1951, and subject to original one-eighth (1/8) royalty with minimum royalty of $1000.00 per month after beginning mining operations on these claims, recorded in Vol. G, pps. 123-126.
(2)	31 Claims assigned by Morgan G. Huntington et ux, recorded in Vol. G, pps. 144-146.
(3)	10 claims, 1-10 of Cossatott Lode, assigned by J. R. Wood, et al, subject to original royalty of seven cents (7¢) per ton of crude ore, payable as mined, recorded in Vol. G, pps. 136-137.
(4)	1 Claim, 1 of Short Creek Lode, assigned by J. R. Wood, recorded in Vol. G, pps. 137-138.
(5)	10 Claims, 2-11 of Short Creek Lode, located by S. Austin Wier, recorded in Vol. H, pps. 444-448.
(6)	2 Claims 1 & 2 of Smoke Rock Lode, assigned by W. D. Ashcraft and Isom Avants, subject to annual delay rentals of $200.00, and subject to original royalty of seven cents (7¢) per ton of crude ore, payable as mined, with minimum annual royalty of $200.00 after beginning mining operations on these claims, recorded in Vol. G, pps. 143-144.
(7)	19 Claims, 12-30 of Short Creek Lode, located by S. Austin Wier, recorded in Vol. H, pps. 456-458 and 476-483.
(8)	5 Claims, 11-15 of Cossatott Lode, located by S. Austin Wier, recorded in Vol. H, pps. 458-460.

Each claim represents an unpatented Lode Mining Claim covering approximately 20 acres of land; and the Volume and page references above indicate the Mining Records of Polk County, Arkansas, as kept by the Official Recorder.

Note 103 claims are listed, but only 102 are in map(2)
Also there are 27 claims in American group, not 25 as listed.
Which 25 are meant?

AGREEMENT AND LEASE

This memorandum of agreement and lease made and entered into by and between the American Manganese Company, Inc., a corporation incorporated under the laws of the State of New Mexico, party of the first part, and Cecil B. Chenoweth of Dallas, Texas, party of the second part, WITNESSETH:

For and in consideration of the sum of One Dollar ($1.00) and other good and valuable considerations, the receipt of which is hereby acknowledged, the American Manganese Company, Inc., hereby agrees to lease the following described mining claims, according to the following terms hereinafter mentioned in this contract to party of the second part, Cecil B. Chenoweth. Said party of the first part has granted and does by these presents grant and lease to party of the second part the exclusive right for the sole and only purpose of operating and mining for manganese, oil, gas, coal and all other minerals of every character and description whatever in and under twenty-five (20) certain claims of approximately twenty (20) acres each, located in Polk County, Arkansas, designated as Polk County Claims, all of such claims being contiguous and in one block and being further indicated and located as shown on the attached and signed map marked Exhibit "A", and all such claims being located upon lands more particularly described in the attached Exhibit "B", and

both of which Exhibits are made a part hereof. Further legal description of all of said claims not fully described in Exhibit "B" will be made and furnished by party of the first part to party of the second part by a signed addendum within thirty (30) days from the date hereof.

This lease is subject to the terms, conditions, restrictions and agreements hereinafter set forth:

1. The term of this lease shall be for a term of fifty years and as long thereafter as manganese or other minerals shall be found in paying quantities, and as long as the other conditions relating to payment of royalties and rentals as herein provided for are complied with.

2. The party of the second part shall have a period of sixty (60) days from the date of this lease in which to make whatever check he desires made in order to assure himself that party of the first part has merchantable title, and in which period also to do what prospecting or testing he desires made in order to satisfy himself that manganese or other minerals can be produced from the premises in paying quantities.

3. On or before the expiration of sixty (60) days from the date hereof the party of the second part shall pay to party of the first part in Abilene, Texas, the sum of Ten Thousand ($10,000.00) Dollars for the said Polk County Claims, in addition to the cash payment made at the time of the execution of this lease. In the

event the $10,000.00 payment is not made by party of the second part to party of the first part on or before the expiration of sixty (60) days from the date of this lease, then this lease shall, at the end of the sixty (60) day period, become null and void and of no further force or effect.

4. The party of the first part, as a further consideration for this lease, shall receive and retain a one-eighth (1/8th) royalty on all minerals of every kind and character, including manganese, that is hereafter mined, saved and sold from the leased premises by party of the second part or his heirs and assigns. It is further agreed that if manganese in any of its forms is mined, saved and sold from the leased premises, that the one-eighth (1/8th) royalty herein provided for shall in no event be less than Five ($5.00) Dollars per ton, and in the event on the sale of such mined manganese in any of its forms a one-eighth (1/8th) royalty does not enable the party of the first part to realize Five ($5.00) Dollars per ton for each ton mined and sold, then party of the second part shall pay to party of the first part the difference between Five ($5.00) Dollars and the sum such one-eighth (1/8th) royalty actually brings on the sale of such mined product. It is further agreed by the parties that after March 1, 1951, that the minimum royalty to be paid to party of the first part shall be the sum of One Thousand ($1,000.00) Dollars for the Polk County Claims, for each month following such date.

In the event the sums realized by party of the first part from royalties on minerals actually mined and sold from the premises after March 1, 1951, do not total the sum of at least One Thousand ($1,000.00) Dollars per month for the Polk County Claims, then party of the second part shall pay to party of the first part such additional sum as is necessary to enable the party of the first part to realize at least One Thousand ($1,000.00) Dollars per month from this lease for the Polk County Claims, for each month following March 1, 1951, and this shall continue as long as this lease remains in force.

5. Party of the second part may pay to party of the first part the sum of One Thousand ($1,000.00) Dollars per month for the Polk County Claims, for any month or months following March 1, 1951, and keep this lease in force without conducting actual mining operations.

6. The royalties herein provided for shall be due and payable monthly and not later than the 15th day of the month following the calendar month during which the royalties were earned or realized. It is agreed that a deposit to the credit of first party in Security State Bank of Wewoka, Oklahoma, shall constitute a good and sufficient payment of any monies that shall become due under this contract.

7. In the event the Ten Thousand ($10,000.00) Dollar cash payment is made by second party at or before the end of the sixty (60) day period, then this lease shall remain in full force until March 1, 1951 as to the

said property in Polk County so paid for, without second party guaranteeing any certain amount of royalty to be realized by first party. Beginning March 1, 1951, party of the second part guarantees the party of the first part a minimum royalty of One Thousand ($1,000.00) Dollars per month as to the said property so paid for, as provided for in paragraphs 4 and 5 hereof as long as the lease remains effective.

8. Notwithstanding any other provision herein, it is expressly provided that after the payment of the said $10,000.00 has been made, in the event of the failure of second party to make payments of royalty or other sums in the amounts and on the dates herein provided for, then this lease may be terminated, at the election of first party, only by sending a letter to second party, addressed to 523 Republic Bank Building, Dallas, Texas, giving notice of default and advising that the lease shall terminate within 30 days from the date of mailing of such notice, by Registered Mail; and at the expiration of such 30 day period, this lease shall terminate unless meanwhile the default shall have been remedied by the making of said required payments.

9. Second party may terminate this lease at any time he so desires by mailing a written notice of termination in the United States mail to American Manganese Company, Inc., 2217 Melrose Street, Abilene, Texas. Upon termination of the lease from any cause, first party shall be entitled to retain all sums realized by it under the lease as liquidated damages and second

party shall be liable for no further sums whatever, except for unpaid royalties that may have accrued to first party under this lease prior to its termination.

10. The party of the second part shall have the privilege of using sufficient wood, water, coal, gas and oil from the premises to run necessary machinery, and the right to use sufficient timbering for rigs and other purposes pertaining to said operation, and the right to remove all machinery and fixtures and other property, placed upon the premises thereby at any time, with the right of ingress and egress, and the exclusive right to lay and operate pipelines to convey oil, gas and other substances.

11. The party of the second part and his heirs and assigns shall have the right to sub-divide said tracts of land into any number of smaller lots or pieces, or sub-lease the whole or any part of said tracts of land for the purposes named in this lease.

12. The second party agrees that he shall keep true and correct books of account, showing the production of all minerals and the shares or portions due to party of the first part, which books shall be kept open and free to inspection of all parties interested therein during business hours.

13. Party of the first part warrants that it is the owner of the foregoing claims and rights in the above described lands and has good and merchantable title thereto, and full right and authority to give and grant this mineral lease on said lands.

14. It is understood and agreed, however, that in the mineral and royalty deeds by which first party acquired title to these lands that the grantors therein reserved to themselves certain royalty interests and the right to annual rentals. First party agrees that from the payments made to it by second party that it will make all royalty payments and rental payments due and owing to any persons whomsoever from these premises, and in the event second party is forced to pay any such royalty or rental payments to other persons than first party, as provided for in this lease, then first party agrees to reimburse second party for such amounts as he is forced to pay. However, party of the first part covenants that no parties who are not signatory to this contract shall at any time hereafter have or hold any rights which guarantee the payment thereto of royalties exceeding, in the aggregate, the sum of Five ($5.00) Dollars per ton on ore mined and sold.

15. Notwithstanding any other provisions herein, second party, on or before the expiration of sixty (60) days from and after the date hereof may defer the payment hereinabove required to be made as of such time to put this lease into full force and effect; and such payment may be so deferred for a period of one month from and after the original due date of such payment by forwarding to first party the sum of $1,000.00; and on or before any succeeding due date, thus deferred, a like extension may be had for a like sum, provided that total extensions thus secured may not exceed four (4) months from and after

the original due date, and further provided that for each month by which said required payment is deferred the time for making guaranteed royalty payments, hereinabove required to begin on March 1, 1951, shall be accordingly deferred one month.

This agreement and lease shall inure to the benefit of and be binding upon the heirs, assigns, representatives and successors of the parties hereto.

WITNESS OUR HANDS, at Abilene, Texas, this 14th day of September, 1950.

THE AMERICAN MANGANESE COMPANY, INC.

BY /s/ A.R. WETSEL
President
Party of the First Part

ATTEST:

/s/ J. DOW SCOTT
Secretary

/s/ CECIL B. CHENOWETH
Party of the Second Part

STATE OF TEXAS)
)
COUNTY OF TARRANT)

BEFORE ME, the undersigned authority, a Notary Public in and for said County and State, on this day personally appeared A.R. WETSEL, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same as the act and deed of The American Manganese Company, Inc., of Abilene, Texas, and as the president thereof, and for the purposes and considerations therein expressed.

Given under my hand and seal of office this the 14th day of September, A.D. 1950.

/s/ THELMA GRAY
Notary Public in and for the
County and State aforesaid

STATE OF TEXAS)
)
COUNTY OF TARRANT)

BEFORE ME, the undersigned authority, a Notary Public in and for said County and State, on this day personally appeared Cecil B. Chenoweth, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

Given under my hand and seal of office, this 14th day of September, A.D. 1950.

/s/ THELMA GRAY
Notary Public in and for the
County and State aforesaid

EXHIBIT "B"

The leased property comprises all of the twenty-five (25) mining claims in Polk County, Arkansas which are outlined in red on the foregoing map, marked Exhibit "A" and each claim covers twenty acres of land, so located that the entire lot thereof covers an unbroken block of 500 acres; and the legal descriptions covering fifteen (15) of these claims will be furnished party of the second part, as required in the foregoing contract, such description to be in the form of an addendum signed by party of the first part, identifying the claim and its geographic location and the party by whom located, and giving the date thereof, and stating the Book and Page where it is recorded in the Recorder's Office of Polk County, Arkansas; and such 15 claims shall be all of the said 25 claims save and except 10 thereof which are among those shown on said map and which are identified and described thus:

1. Amos Lawrence, Claim No. 1, Sec. 35, Twp. 3 S., R. 30 West, Recorded in Mining Record Book "H" at page 299, in the Recorder's Office in Polk County, Arkansas.
2. Amos Lawrence, Claim No. 2, Sec. 35 Twp. 3S., R. 30 West, Recorded in Mining Record Book "H" at Page 307, in the Recorder's Office of Polk County, Arkansas.
3. Odell Lawrence, Claim No. 1, Sec. 26, Twp. 3 So., R. 30 West, Recorded in Mining Record Book "H" at Page 319, in the Recorder's Office of Polk County, Arkansas.

4. Odel Lawrence, Claim No. 2, Sec. 35, Twp. 3 S., R. 30 West, Recorded in Mining Record Book "H" at Page 306 in the Recorder's Office of Polk County, Arkansas.

5. Dan Lawrence, Claim No. 2, Sec. 35, Twp. 3 S., R. 30 West, Recorded in Mining Record Book "H" at Page 300 in the Recorder's Office of Polk County, Arkansas.

6. Dan Lawrence, Claim No. 3, Sec. 35, Twp. 3 S., R. 30 West, Recorded in Mining Record Book "H" at Page 301 in the Recorder's Office of Polk County, Arkansas.

7. Edna Lawrence, Claim No. 1, Sec. 35, Twp. 3 S., R. 30 West, Recorded in Mining Record Book "H" at Page 306 in the Recorder's Office of Polk County, Arkansas.

8. The claim located by J. Arlie Wood, known as the Eagle Claim No. 1 and located in Sec. 35, Twp. 3 S., R. 30 West, in Polk County, Arkansas, and described by metes and bounds as follows:

BEGINNING at the SW corner of Gopher Claim No. 2, and running thence 1500 feet East, thence 600 feet South; thence West 1500 feet; thence North 600 feet to the point of beginning, said claim being located April 12, 1949, and of record in Mining Claim Record "G" at Page 607, in the office of the Recorder of Polk County, Arkansas.

9. A claim located by George P. Wood on April 12, 1949, known as Gopher Lode No. 2, and located in Sec. 26 and 35, Twp. 3 S., R. 30 W. in Polk County, Arkansas, and described by metes and bounds as follows:

BEGINNING at the SE corner of the SE one-fourth of SW one-fourth of Sec. 26, thence running north 390 feet to the place of beginning; thence West 175 feet; thence south 600 feet into Sec. 35, thence east 1500 feet, thence North 600 feet and thence west 1325 feet to the point of beginning, said claim being of record in Book "G" at Page 608 of the Recorder's Office of Polk County, Arkansas.

10. J.B. Tidwell, Claim No. 1, Sec. 27, 3 S., R. 30 West, recorded in Mining Records Book "H", at Page 341 in the Recorder's Office of Polk County, Arkansas.

End of Exhibit "B"

/s/ CECIL B. CHENOWETH

/s/ A.R. WETSEL

/s/ J. DOW SCOTT

MEMBER AIME

ROBERT B. McELWAINE

CONSULTING MINING GEOLOGIST
P. O. Box 127
LITTLE ROCK, ARKANSAS

RECTOR BUILDING

PHONE 2-1434

February 23, 1952

Mr. C. O. Mittendorf
Acting Administrator
Defense Minerals Exploration Administration
Room 4624, Department of Interior
Washington 25, D. C.

Dear Mr. Mittendorf:

At the request of Mr. Cecil B. Chenoweth of the Inland Mining Corporation of Dallas, Texas I am enclosing the following items to complete the data needed in regard to their exploratory loan application under D M E A docket No. 2299X:

1. Original and three copies of exhibits "A", "B" and "C".

2. Four prints of sketch map showing mining claims No. 28 and 29 in relation to the original American group of claims.

Exhibit "A" is provided for the purpose of facilitating the preparation of an exploration contract. It presents a basis upon which to set out the expenditures in an itemized form.

Exhibit "B" is the cost schedule for exploration on the original six locations as requested in your telegram to the corporation under date of February 19.

Exhibit "C" presents the progress schedule for exploration on the original six locations as also requested in above mentioned telegram.

I discussed at some length by telephone the progress and cost schedule with Mr. Selfridge of your office on February 21. I explained to him that various phases of the exploration work would be under way simultaneously on different locations. This fact makes it most difficult to break down the actual time and cost estimate on each separate location. Mr. Selfridge said it would be satisfactory to submit this information in a combined form for the first six locations but that any further sites submitted to the field team for approval would have to be handled as individual units. With a progressive project such as this is designed to be, it will be difficult to have a sharp cut-off at the beginning and ending of the work on each location. From a practical and economic viewpoint it will no doubt be desirable at times to have bulldozer work going on at one location, trenching at another location, and drilling at still another location. When you consider the fact that there will be two complete exploration units working at the same time it complicates matters still further. IF IT IS FEASIBLE IN ANYWAY TO WORK THE CONTRACT OUT ON A MONTHLY COST BASIS WITH ALL PROPOSED LOCATIONS AND ESTIMATE OF WORK TO BE DONE ON EACH TO BE SUBMITTED TO THE FIELD TEAM FOR APPROVAL, IT WOULD GREATLY FACILITATE THE ACTUAL EXPLORATION PROJECT.

Mr. C. O. Mittendorf
February 23, 1952

In my conversation with Mr. Selfridge on the 21st I endeavored to ascertain that I was preparing everything in connection with the cost and time schedules that would be necessary in order to complete the processing of the application at once. Time is a very important factor in relation to the reconnaissance work for the purpose of selecting the most promising exploratory sites and laying out the work on them. If this work is not done within the next sixty days before the heavy summer undergrowth comes out, it will make this phase of the project much more laborious and costly.

The second item of enclosures relating to mining claims 28 and 29 in relation to the original American group of claims is being forwarded to you because these are new claims and were not shown on the plat of claims included with the original loan application. They were shown on plate IV accompanying the February 15 supplement.

It is my understanding that Mr. Chenoweth expects to see you in Washington the first part of next week. He proposes to have the necessary data with him in regard to the leases, subordination agreements, etc.

Am most sorry that I have not had the pleasure of meeting you during any of my recent trips to Washington.

Very truly yours,

R. B. McElwaine

R. B. McElwaine
Consultant to Inland Mining Corp.

RBM:hc
enc: 8
cc: Cecil B. Chenoweth
S. Austin Wier

INLAND MINING CORPORATION

SUPPLEMENT TO EXPLORATION LOAN APPLICATION

D. M. E. A. DOCKET NUMBER 2299

Prepared
by

Robert B. McElwaine
Consulting Mining Geologist

Little Rock, Arkansas

February 16, 1952

DMEA Docket No. [redacted]99

Inland Mining Corporation
523 Republic Bank Building
Dallas, Texas

SUPPLEMENT TO EXPLORATION LOAN APPLICATION

In connection with their application for an exploratory loan on manganese properties in Polk County, Arkansas the Inland Mining Corporation was requested by the DMEA to designate five or more, specific areas on their holdings in which to start the exploratory work. They were also requested to outline the proposed method of exploration and make an estimate of the quantities of various phases of work to be performed at each site. In order to comply with this request they directed their consulting geologist, Mr. R. B. McElwaine of Little Rock, Arkansas, and their staff geologist, Mr. Bernard Archer, to proceed with the work and complete it as early as possible.

A detailed examination of the properties was carried on until suitable areas were located. They were then mapped and a proposed exploratory program set up on six sites. The sites are designated on maps accompanying this report as shown on plates I, II, III and IV.* A sketch map showing the location of the various groups of claims was included with the original loan application and should be referred to in order to locate the claims shown on the attached plates. The exploratory sites are located on various groups of claims as follows: Sugartree group site 1, Caddo group site 1, American group sites 2, 3, 4, and 5. This gives a total of six designated

* In pocket at back of report.

sites at this time. In working these areas ore was traced out onto unclaimed land adjoining the American group of claims. New claims numbered 28 and 29 respectively were established and are shown on plate IV.

The proposed exploratory program for each site is described on the discussion sheets attached to this report. The estimates of quantities of various phases of the exploratory work are included therein.

In regard to sampling by means of wagon drills it might be stated that this method of sampling has been satisfactorily utilized in this area in the past. The depth to which any particular hole can economically be extended cannot always be predicted, but depths of 12 to 15 feet can almost always be obtained and occassionally 20 foot holes can be drilled without too much difficulty.

It is not possible to accurately predict how much work any particular tract may merit. This will have to be determined as the exploratory work on each site progresses. Some of them may soon reveal that it would be fruitless to complete all of the proposed work. Others may indicate the desirability of doing more work than contained in the original proposal. Therefore any contractural agreements should be set up as flexible as possible so as to permit doing lesser or greater amounts of work on any specific site than that estimated. Flexibility of this nature will permit the judicious expenditure of allotted funds so as to obtain the greatest possible

benefit therefrom. The goal is the development of the greatest possible ore reserves per dollar of money spent. If the fact is kept in mind that the total expenditure for the whole group should be the controlling factor rather than a limit on any specific area, it should be possible to outline a workable contract. It should also be kept in mind that progression of the work may reveal the desirability of locating trenches, etc, at different points than the specific locations shown on the map and allowance made for such altering of locations.

Any questions pertaining to unit cost can be answered by referring to the original loan application under form MF-103. In the original supplement to this form detailed cost figures are given on pages 3, 4, 5, 6, 7, and 8.

In conclusion, the urgency of doing the geological reconnaissance work during the next 60 days cannot be stressed too much. This work, as outlined in the loan application, can be done more effectively as well as quicker and at a lower cost if it is done prior to the development of the heavy summer undergrowth. The actual exploration work can be effectively carried on regardless of vegetation, but the principal reconnaissance work should be completed prior to April 15 and certainly not later than May 1.

Respectfully submitted,

R. B. McElwaine

R. B. McElwaine
Little Rock, Arkansas
February 15, 1952

Supplement to exploration loan application.
Feb., 15, 1952
DMEA Docket No. 2299

Inland Mining Corporation
523 Republic Bank Building
Dallas, Texas

Discussion of proposed exploration as shown on plate I.

The structural conditions existing at this site consist of an erosional remnant of the trough of a syncline lying on top of a high topographic ridge. The geologic contact along which the ore occurs is exposed only on the south limb of the syncline. The contact on the north limb lies on the slope of the ridge and is covered with a thin layer of talus.

It is proposed to clear the brush and residual material off of the ore beds by means of a bulldozer trail along the outcrop as intermittenly exposed. This is shown on plate I. At intervals of approximately 100 feet it is proposed to cut bulldozer trenches as deep as practical without blasting. These trenches will be about 50 feet in length. In the center of these cross cuts drilling and blasting will be used to excavate trenches about 2½ feet wide and 2 to 4 feet in depth from which samples will be taken. The excavated trenches will probably average about 30 feet in length. The two trenches indicated as extending to the northeast are designed to uncover the ore horizon on the north limb of the syncline. If it can be uncovered without having to remove too much overburden, sample trenches will also be cut into the ore horizon on this limb.

If conditions as revealed by above exploration warrant, then drilling holes by means of a wagon drill to depths of 12 to 20 feet may be done in areas where such works appears to be desirable and practical. The drill cuttings will be collected at five foot intervals for sample purposes.

The estimated work for this site is as follows:

Description	Quantity
Bulldozer trail	1,500'
Bulldozer trenching	600'
Excavated trench in bed rock	300'
Bulk samples	30
Wagon drill holes	25
Drill hole samples	75

If the results of the above exploration are good, and the north limb of the syncline is shown to contain good ore; it may be desirable to repeat approximately the same program on the north limb. This would increase the estimates given above by about 75 percent.

Supplement to exploration loan application.
Feb., 15, 1952
DMEA Docket No. 2299

Inland Mining Corporation
523 Republic Bank Building
Dallas, Texas

Discussion of proposed exploration as shown on plate II.

The exploration proposed at this site consists of 8 bulldozer trenches approximately 50 feet in length to be cut across the strike of the ore horizon where its trace is exposed on the south limb of a syncline lying in a valley. Above the geologic contact erosion has removed the middle division of the novaculite and most of the ore horizon lying stratigraphically below it. The beds dip about the same or at a slightly greater angle than the slope of the hill. Below the contact a relatively small amount of the middle division of the novaculite is still in place.

In the center of the bulldozer trenches drilling and blasting will be employed to excavate trenches about 2½ feet wide and 2 to 4 feet in depth from which samples will be taken. These trenches will average about 30 feet in length.

If conditions warrant, then drilling by means of a wagon drill to depths of 12 to 20 feet may be done in areas in which such drilling appears to be justified. Drill cuttings would be collected from such holes for sample purposes.

Continued discussion of plate II.

The estimated work for this site is as follows:

Description	Quantity
Bulldozer trenching	400'
Excavated trench	250'
Wagon drill holes	16
Bulk samples	16
Drill hole samples	48

Supplement to exploration loan application.
Feb., 15, 1952
DMEA Docket No. 2299

Inland Mining Corporation
523 Republic Bank Building
Dallas, Texas

Discussion of proposed exploration as shown on plate III.

The structural conditions at this site consist of relatively steep dipping beds on the north limb of a syncline. The geologic contact along which the ore horizon lies has been exposed by erosion well up on the south side of an east-west trending ridge. It is proposed to cut bulldozer trenches across the strike of the ore horizon as indicated on plate III. At the eastern end of this area a cross fold occurs and it is proposed to strip the thin layer (2 to 5 feet) of overburden off of this area also with a bulldozer.

Within the area of the bulldozer trenches and stripping, trenches will be cut into the ore beds, across their strike, to a depth of 2 to 4 feet. Bulk samples will be taken from these trenches.

Where practical and results of the above work reveal it to be justifiable, then wagon drill holes to a depth of 12 to 20 feet may be drilled for the purpose of obtaining samples.

The estimated work for this area is as follows:

Description	Quantity
Bulldozer trenching	400'
Other bulldozer stripping	4800 Sq. Ft.*
Excavated trench in bed rock	330'
Wagon drill holes	25
Bulk samples	22
Drill hole samples	75

* Estimated 500 cubic yards.

Supplement to exploration loan application.
Feb., 15, 1952
DMEA Docket No. 2299

Inland Mining Corporation
523 Republic Bank Building
Dallas, Texas

Discussion of proposed exploration as shown on plate IV.

The area shown on this plate is to be divided into three exploratory sites as described in the title of the map. The structural condition consists of the south limb of a rather broad syncline lying upon the north side of an east-west trending ridge which has been rather thoroughly dissected by erosion. At the east end of the area in the vicinity of site number 3 the beds dip at a low angle to the north. Progressing westward the dip gradually steepens until it approaches a dip of about 70 degrees at the extreme west end of the area shown on the map. The trace of the ore horizon can be followed along the hill side for the entire distance shown. A better than average grade of ore, for the western Arkansas manganese district, can be found all the way along the ore horizon both in the form of outcrops in place and considerable float in the numerous erosional ravines.

Primary exploration is to consist of bulldozer trenching across the strike of the ore horizon. In places where the ore beds are lying at a low angle of dip so as to more or less conform with the slope of the hillside, bulldozer trenching will serve to clean off the stratigraphic top of the ore horizon. In such areas wagon drill holes will be especially effective in testing the ore beds through their thickness of about 20 feet.

Trenches are to be cut down the center of the bulldozer exposures by means of drilling and blasting so as to cut them about 2½ feet wide by 2 to 4 deep. Bulk samples will be taken from these trenches. Where practical, wagon drill holes will be put down in conjunction with the trenches in order to test the ore deposition to a greater depth than is economically feasible with trenches. Holes ranging in depth from 12 to 20 feet will be drilled and all of the drill hole cuttings saved at five foot intervals for sample purposes.

The estimated work for these sites is as follows:

	Quantity		
Description	Site No. 3	Site No. 4	Site No. 5
Bulldozer trenching	700'	600'	500'
Excavated trench in bed rock	360'	300'	300'
Wagon drill holes	25	25	20
Bulk samples	20	20	20
Drill hole samples	75	75	60

DMEA Docket No. 2[redacted]3
February 22nd supplement to
loan application.

I[redacted] Mining Corporation
52[redacted] Republic Bank Building
Dallas, Texas
(Field office, Mena, Ark.)
February 22, 1952

EXHIBIT "A"

Monthly Cost Breakdown
(25 working days per month)

Distribution of wages and salaries (personnel for two exploration crews)

Type	Rate	No.	Man Shifts	Regular Time	Over Time	Total
Tractor operator	1.50	2	50	$ 600	$ 48	$ 648
Wagon drill operator	1.25	3	75	750	60	810
Sampler	1.25	4	100	1,000	80	1,080
Laborer	1.00	8	200	1,600	128	1,728
Foreman	1.75	1	25	350	28	378
		18	350	$4,300	$344	$4,644

Resident geologist	$ 400	
Stenographer	175	
Bookkeeper	200	
Consultant (Geology, reconnaissance, engineering, project supervision @ $75 per day).*	1,275	
		$ 6,694.00

*During the first 2 months this time will require 20 days per month. The following four months only 15 days per month are estimated. This gives an average of 17 days per month over the 6 month period.

Other Expenses

Depreciation on applicant's equipment (MF-103 item 7-c)	$ 684.	
Equipment rental (MF-103 item 7-a)	3,310	
Materials & supplies(same as breakdown for this item on attached Exhibit "B").	3,672	
Travel expense for consultant	215	
Insurance (Workmen's compensation)	300	
Taxes (Social security and state unemployment)	244	
Contingencies	228	$ 8,653.00
		15,347.00

Six months operation at above cost gives a total estimated cost of $ 92,082.00

Other Costs

Assaying	5,400.00
Purchase of jackhammer	360.00
Churn drilling	10,000.00
	$ 107,842.00**

** If during the progress of the work certain deposits indicate the desirability or need of doing churn drill testing, then the other work is to be cut off at a point which will leave sufficient money to do the churn drilling without exceeding a total of $100,000.00

DMEA Docket No. 2[redacted]
February 22nd supp[redacted]nt
to loan application.

[redacted]nd Mining Corporation
[redacted] Republic Bank Building
Dallas, Texas
(Field office, Mena, Ark.)
February 22, 1952

EXHIBIT "B"

COST SCHEDULE FOR SIX LOCATIONS SUBMITTED IN FEBRUARY 15th SUPPLEMENT

Based on 35 calendar days as outlined in attached exhibit "C" the cost estimate set out below is herewith submitted. The work to be done under these cost figures includes intensive geologic reconnaissance to select additional favorable sites as well as the execution of the actual exploration work on the six initial locations.

Cost of labor per day (including overtime) $186 x 24 days (Breakdown on attached exhibit "A")	$ 4,464.00
Geology, engineering, project supervision (including reconnaissance survey work during 35 day period)	1,800.00
Travel expense (Automobile, meals & lodging)	275.00
Resident geologist	467.00
Stenographer	205.00
Bookkeeper	234.00
Workmen's compensation insurance (5% x 7,170.00)	358.50
Social security & state unemployment taxes (4.5% $,370.00)	241.50
Depreciation on applicant's equipment (1 1/6 months) (Equipment and value listed on Form MF-103 item 7-c)	798.00
Rental equipment (1 1/6 months. Form MF-103 item 7-a)	3,862.00
Material & supplies*	3,672.00
Assaying	2,000.00
Contingencies	228.00
	$18,605.00

* Breakdown of materials & supplies item.

Diesel fuel	800.00
Gasoline	200.00
Lubricating oil	150.00
Explosives	220.00
Drill bits	1,920.00
Drill steel & hose	240.00
Tires & tubes	80.00
Office supplies	20.00
Blue printing, etc.	42.00
	$ 3,672.00

DMEA Docket No. 2[redacted]
February 22nd sup[redacted]nt
to loan application

[redacted]d Mining Corporation
[redacted] Republic Bank Building
Dallas, Texas
(Field office, Mena, Ark.)
February 22, 1952

EXHIBIT "C"

Time Schedule

5 day week
26 work
1 day le. Thus

It is estimated that by utilizing two exploration units as outlined in the original application under date of December 17, 1951 it will require 24 working days to complete the work outlined on the six locations as submitted under February 15th supplement. Allowing an additional six days for lost time due to weather and five days for Sundays gives a total elapsed calendar time of 35 days or 1 1/6 months.

The location numbers with reference to plates submitted with the February 15th supplement are given below:

Location No.	Location Description
1	Exploration site 3 on plate IV
2	" " 4 " " IV
3	" " 5 " " IV
4	" " 1 " " I
5	" " 2 " " III
6	" " 1 " " II

The time required to do the work on the above described locations in terms of days by one exploration unit is tabulated below. The various phases would be going on simultaneously.

Location No.	Bulldozer Trenching	Excavated trench including drilling, blasting, shoveling and sampling.	Wagon drill test holes & sampling
1	9 days	10 days	8 days
2	8 "	7½ "	8 "
3	7 "	7½ "	7 "
4	9 "	7½ "	8 "
5	8 "	8 "	8 "
6	7 "	7½ "	5 "
	48 days	48 days	44 days

By utilizing two exploration units and proper distribution of the personnel employed it is estimated that this work can all be completed within 24 working days for the actual exploration crews.

Form MF-103
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

MF-103 Should Be Filed With General Technical Data Form MF-100

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

Not To Be Filled in by Applicant

Docket No. DMGA-2299
Metal or Mineral
Date Received 12-26-51
Amount $
Participation (Government %)

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 26 1951

Name and address of applicant

Inland Mining Corporation
1408 M & W Tower Building and
523 Republic Bank Building
Dallas, Texas

Date December 17, 1951

If you have already filed MF-100, give date filed _____, type of assistance requested _____,

DMA Docket Number (if available) _____

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four copies each, of the signed application form, General Technical Data Form MF-100, and answers to questions as specified, to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive office thereof, with your name and address on each sheet of the application and all accompanying papers. If you have previously filed MF-100, it is not necessary to file it again. However, you should indicate in space provided above the type of assistance previously applied for (loans, procurement contracts, etc.) and DMA Docket Number, if available. *When a question is inapplicable it should be so stated in the form.* Additional sheets should be attached in answering any questions or in supplying additional information. IF YOU CANNOT ANSWER A QUESTION, SO STATE.

1. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property.

   (*b*) If you are not the owner of the property, submit a copy of the lease, purchase option, or other agreements under which you are authorized to operate the property with each copy of your application.

   (*c*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.

   NOTE: (1) If both areas are the same, so state. The only obligation to repay the Government is from the net earnings from any commercial discovery made in the area specified in (*c*) above in which the exploration is to be conducted, and the expenditure of funds which may be charged as costs of the project must be limited to that area or to work necessary to perform the exploration in that area.

   (2) If applicant is not the owner of the property or if there are any liens or encumbrances against the property, copy of agreements of claimants, lienors, encumbrances, and lessors subordinating their interests in the property to the interest of the Government under the Exploration Project Contract will be required for attachment to the Contract.

2. (*a*) What metals or minerals do you expect to find?

   (*b*) Furnish statement of the geologic features of your property, giving type of ore deposit and reasons for expecting to find commercial ore bodies. Illustrate with maps or sketches. If you have a geologic or engineering report, or assay maps showing width and grade, please send them with application, stating whether or not you wish to have them returned.

The information requested in questions 3, 4, 5, 6, 7, 8, and 9 below should be answered specifically and in detail, as this information will be attached to and incorporated as part of the Exploration Project Contract, if such contract is entered into with you by the Government.

ANSWER EACH QUESTION ON SEPARATE SHEETS OF PAPER AND SUBMIT A COPY OF EACH ANSWER FOR EACH COPY OF YOUR APPLICATION.

3. (*a*) Describe fully the proposed work and give the total cost of the project.

   (*b*) State the time required to start the project and to complete it.

4. Submit a map or sketch of the property involved showing a plan (and cross section, if needed) of the present mine workings and the *location of the proposed exploration work* as related to geologic features, such as contacts, veins, ore-bearing beds, etc.

5. Furnish an itemized list of existing facilities, buildings, installations, and fixtures with a statement of the cost of any necessary rehabilitation or repairs to put into useful and operable condition.

6. Furnish a detailed list of additional facilities, buildings, and fixtures to be purchased, installed, or erected by you, with the estimated cost of each item.

7. Furnish a detailed list of operating equipment, separated into items to be—

   (*a*) Rented

   (*b*) Purchased

   (*c*) Furnished by you

   with the rental, purchase price, or depreciation of each item, as the case may be, to be charged as a cost of the project.

8. Furnish an itemized schedule of labor, by numbers and classes (miners, muckers, etc.) and of supervisors by numbers and positions, with the maximum wages or salaries to be paid to each.

9. Furnish a detailed list with estimated cost of each item for materials, supplies, engineering, assaying, accounting, power, water, utilities, and any other items not provided for above.

10. (*a*) How much are you prepared to invest in the proposed project?

    (*b*) Is this amount sufficient to pay your part of the cost of the project, in accordance with the regulations on Government participation (Sec. 9 of MO–5)?

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

CERTIFICATION

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

Inland Mining Corporation
(Name of company)

By Cecil B. Chenoweth
(Signature of authorized official)
Cecil B. Chenoweth
First Vice-President

December 17, 1951
(Date)

(Title)

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

U. S. GOVERNMENT PRINTING OFFICE 16—64067-2

IMA
Form MF-103

Inland Mining Corporation
523 Republic Bank Building
Dallas, Texas.

1. (a) (b) (c)

The property now held by the Inland Mining Corporation consists of unpatented mining claims on the public domain. There are at present 190 claims approximating 3,800 acres of land. Under the direction of D.R.W. Wager-Smith, licensed U.S. mineral surveyor of Albuquerque, New Mexico, all of the claims have recently been accurately surveyed. This work included well marking of the boundaries and careful monumenting of the corners and location notices of the claims. The claim descriptions are recorded in the Mining Record Books of Polk County, Arkansas. The location of the claims and 432 acres of land purchased for a mill site are shown on attached map.

2. (a) Manganese.

(b) See attached report.

DMA
Form MF-103

Inland Mining Corporation
523 Republic Bank Building
Dallas, Texas

3. (a) The project is to be an exploratory one attempting to discover manganese deposits worthy of exploitation by open pit mining methods. It is proposed to expend a total of $100,000.00 on this project. The present holdings of the applicant are known to contain a great many deposits of manganese. The project is designed to explore the more promising of these deposits. An exploratory program just completed on one of these deposits revealed an indicated ore reserve of 175,000 tons with a Mn content of slightly over five percent. The deposit explored was picked at random and is by no means the most promising deposit on the properties involved. The work done on this deposit could have been done, if it had been carried out under a program similar to the one herein proposed, for a cost of three to four thousand dollars. Thus the program proposed would explore 25 to 30 similar deposits. Assuming that it is representative of the average of all the deposits, then it could be deduced that such a program might well develop 4 to 5 million tons of indicated ore reserves.

If adequate ore reserves can be proven, the applicant proposes to build a mill and enter into the production of manganese. The proposed operation calls for handling 2,000 tons of crude ore per day, which will yield a recovery of about four percent metallic manganese.

The general plan to be followed in the exploration program is to do preliminary geological work selecting the most promising areas for exploration and to follow up with actual exploratory work consisting of trenching and sampling, rock drill and churn drill testing, and detailed geological mapping and ore reserve calculations. The detailed method proposed for carrying out this program is outlined below.

DMA
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Dallas, Texas

Phase 1.

Two geologists doing reconnaissance work on the applicant's property selecting favorable sites for physical exploratory work. It is anticipated that within two weeks some favorable areas will have been selected upon which to start exploratory work. Exhibits showing extent of proposed work and estimated cost thereof will be prepared and submitted to D.M.A. field team. This will be repeated as additional favorable deposits are selected. From this data amendments to the contract can be prepared on each individual deposit to be explored, and the actual work started. The geological reconnaissance will continue until all of the applicant's property has been covered. The actual exploratory work will be going on at the same time. If during the course of the program it is indicated that other properties are highly favorable for development of manganese ore bodies, the applicant may, at its sole expense, acquire additional properties in the area. It will then request the government to permit amendment of the exploration contract so that these newly acquired properties may be included in the exploratory program.

Cost.

Consulting Geologist (30 days field time at $75.00	$2,250.00
Travel and living expense	400.00
Staff Geologist (2 months at $400.00)	800.00
Depreciation on Jeep station wagon (2 months at $33.33)	66.66
Gasoline and oil	300.00
Miscellaneous and contingencies	183.34
	$ 4,000.00

Phase 2.

A. Two complete exploratory units are to be maintained in the field.

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Form MF-103

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Dallas, Texas

They are to consist of the following:

(a) Bulldozer.
(b) Wagon drill.
(c) Jackhammers
(d) Operating personnel.

B. When desirable areas for exploration have been selected from the present known deposits, the exploratory units will move into these areas and proceed as follows:

(a) Remove overburden with bulldozer so as to extend ore outcrops along their strike. Uncover geologically favorable locations with bulldozer.

(b) Do shallow trenching by means of bulldozer and drilling and blasting.

(c) Obtain samples from trenches.

(d) Drill Jackhammer holes 4 to 6 feet deep at regular intervals and save all cuttings for assaying.

(e) Where indicated desirable drill holes by means of a wagon drill to depths ranging from 10 to 20 feet or as deep as as practical. All cuttings to be saved for analysis.

(f) When local area has been explored to extent deemed desirable or necessary, the exploratory unit will move on to the next designated area and explore it.

(g) Mapping of geology, trenches, drill holes, and sample locations to be done in each area explored.

Cost.

Depreciation on equipment furnished (six months)	$4,104.00
Purchase of Jackhammer	360.00
Rental equipment (six months)	19,860.00
Labor (see item 8) (144 days including overtime)	21,840.00
Staff geologist - 6 months at $400.00	2,400.00
Stenographer	1,050.00
Bookkeeper	1,200.00
Geology, engineering & supervision	6,000.00
Materials and supplies (see item 9)	22,030.00
Assaying	5,400.00
Contingencies	1,367.00
	$85,611.00

DMA
Form MF-103

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Phase 3.

A. If results of above work indicate the desirability of any churn drilling and sampling in specific areas then it should be done. The money for this work to be obtained by cutting off the work under Phase 2 at a point where sufficient funds are still available from the original $100,000.00 allotment to do the necessary churn drilling. The whole amount will be originally allocated to the other work. The portion to be used for churn drilling to be worked out between the applicant and the government field team of the D.M.E.A. and the contract amended as necessary.

B. Compilation of engineering and geological report setting out and interpreting the results of the above work.

Cost.

2,000' of churn drilling at $5.00	$10,000.00
Assaying and supervision included under Phase 2.	

3. (b) The project can be started immediately. It will require approximately six months to do the actual field work and an additional 30 to 60 days to complete the engineering report.

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Form MF-103

4. Attached.

5. None

6. None

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Dallas, Texas

Form MF-103

	Approx. Monthly Rental
7. (a) One International TD-24 tractor & bulldozer	$2,400.00
One 250 CFM diesel powered Jaeger portable air compressor	650.00
One Chicago Pneumatic wagon drill	260.00
(Rental equipment new)	
	$3,310.00

		Value
(b) One Jackhammer (new)	$360.00	
(c) One International TD-24 tractor and bulldozer		$24,000.00
One 250 CFM diesel powered Jaeger portable air compressor		6,700.00
One Chicago Pneumatic wagon drill		2,600.00
Two Jackhammers		720.00
One Jeep pick-up truck with front mounted winch and four wheel drive		2,000.00
One Jeep station wagon with four wheel drive		2,000.00
One 1950 Chevrolet one-ton flat bed truck		1,000.00
All necessary office and surveying equipment, including transits, calculators, typewriters, drafting equipment, etc.		2,000.00
		$41,020.00

Note: All of the above equipment is new or only a few months old.

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Dallas, Texas

8. Schedule of labor and supervisors.

Type	No.	Hourly Rate	Total Cost Per Day
Tractor operator	2	$ 1.50	$ 24.00
Drill operator	3	1.25	30.00
Samplers	4	1.25	40.00
Laborers	4	1.00	32.00
Equipment foreman	1	1.75	14.00

One staff geologist at $400.00 per month.
One stenographer at $175.00 per month.
One bookkeeper at $200.00 per month.
Consulting mining geologist and engineer as supervisor and director at $75.00 per day and travel expense. (10 to 20 days per month).

Applicant to furnish necessary administrative personnel.

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9.

Diesel fuel	$ 4,800.00
Gasoline	1,200.00
Lubricating oil	900.00
Explosives	1,320.00
Assaying	5,400.00
Drill bits	11,520.00
Drill steel & hose	1,440.00
Tires & tubes	480.00
Office supplies	120.00
Blue printing,etc.	250.00
Contingencies	1,367.00
	$28,797.00

(These figures based on six month operation)

Applicant to furnish office space, utilities, etc.

10. (a) $25,000.00
(b) yes.

FIRST NATIONAL BANK IN DALLAS

CAPITAL $12,000,000 SURPLUS $12,000,000

HORACE E. MOSS
ASSISTANT VICE PRESIDENT

DALLAS 1, TEXAS

December 12, 1951

Mr. E. S. Heyser, President
Inland Mining Corporation
1408 M & W Tower Bldg.
Dallas, Texas

Dear Mr. Heyser:

This is to certify that the books of this bank at the close of business December 12, 1951 showed a balance of $25,000.00 (Twenty-five thousand dollars) to the credit of Inland Mining Corporation, Exploration Account.

Yours very truly,

H. E. Moss

Asst. Vice President

HEM:dh

76th year of dependable service

ESTILL S. HEYSER, JR.
President

Inland Mining Corporation

1408 M & W Tower Building
DALLAS, TEXAS

December 11, 1951

Mr. Cecil T. Chenoweth, Vice-President
Inland Mining Corporation
Suite 1408 Life of America Building
Dallas 2, Texas

Dear Mr. Chenoweth:

Pursuant to your request we wish to advise that one hundred fifty-six thousand dollars ($156,000.00) has been expended by Inland Mining Corporation, a Delaware Corporation, on the acquisition, exploration, and development of the one hundred and ninety (190) mining claims in Polk County, Arkansas on which the company owns mining leases.

The expenditures were made during the period March 8, 1951 to the present. In addition, the corporation has invested thirty-nine thousand seven hundred thirty-one dollars ($39,731.00) in assets consisting of a millsite and construction, automotive and office equipment.

Yours very truly

W. T. Townsend

W. T. Townsend, Assistant Treasurer
Inland Mining Corporation

INLAND MINING CORPORATION
POLK COUNTY, ARKANSAS

PROPOSED MANGANESE EXPLORATION PROJECT

Prepared by

Robert B. McElwaine
Consulting Mining Geologist
Little Rock, Arkansas

Washington, D. C. December 17, 1951

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INTRODUCTION

The writer has been employed by the Inland Mining Corporation of Mena, Arkansas during the past 1½ months as a consultant to assist and advise the Corporation in its exploration for manganese ore deposits in the western Arkansas Manganese District. The Corporation has been engaged in a program involving the acquisition of lands, building of roads, metallurgical investigation and prospecting for the past six months. Most of the work done by the writer has been confined to geological mapping and direction of exploration by trenching and drilling on one small deposit within the Corporation's holdings. The indicated tonnage available on this one small tract as revealed by the work to date is approximately 175,000 tons of ore containing slightly over five percent metallic manganese. This ore is subject to a strip mining operation, and is amenable to heavy media separation treatment that will yield an intermediate concentrate at a low unit cost. The Corporation has carefully surveyed and monumented 190 mining claims on public domain in Polk County, Arkansas. This land comprises approximately 3800 acres and is a basis upon which to start a detailed exploratory program while additional desirable properties are being acquired. The writer has briefly visited only a small part of the Corporation's holdings in recent weeks, but over the past several years has covered most of the entire manganese area in western Arkansas and is thoroughly familiar with the stratigraphy, structure and general occurrence of the manganese deposits. He has recently completed the direction of a churn drill exploratory project on a property immediately adjacent to some of the holdings of the Inland Mining Corporation. This latter pro-

ject was designed to investigate a postulated theory as to the possibility of large reserves of manganese in a conglomerate bed occuring in the area. The project did not prove any appreciable ore reserves, but it did develop considerable worthwhile geological information that will materially assist in the exploration for manganese deposits in the area.

The total expenditure by the Corporation to date, since it started organizing this project some 14 months ago, is approximately $200,000.00. The Corporation now desires to apply to the D.M.E.A. for assistance in financing a detailed manganese exploratory project on its holdings.

The purpose of this report is to present the necessary data to satisfactorily answer the technical questions on D.M.A. forms MF-100 and MF-103.

LOCATION

The general location of the properties to be investigated is as follows: Parts of townships 3 and 4 south, in ranges 28, 29 and 30 west, Polk County, Arkansas. The exact location of the present holdings of the Inland Mining Corporation are shown on property map accompanying D.M.A. Form MF-103. The property is all within the Ouachita National Forest and is served by good gravel roads maintained by the Forestry Service. The nearest town of any consequence is Mena, Arkansas which is about 17 miles to the northwest. Mena is near the Oklahoma border and is about 140 miles west and slightly south of Little Rock, Arkansas. It has a population of approximately 5,000

and has facilities such as telephone, telegraph, hotels, railroad and truck freight service. The nearest rail point to the properties of the Inland Mining Corporation is Hatfield, Arkansas on the mainline of the Kansas City Southern Railroad. It is 13 miles distant from the edge of the corporation holdings and is accessible by moderately good gravel roads.

PHYSICAL FEATURES AND CLIMATE

The property is located in the Ouachita Mountain sub-division of

the Interior Highlands physiographic province. The topography consists of moderately rugged east-west trending parallel ridges and valleys. The average relief ranges from 400 to 600 feet and the general stream elevation is 1100 to 1200 feet above sea level.

The climate is mild and favorable to year around mining. Vegetation is heavy and dense undergrowth makes prospecting during the growing season difficult. Adequate oak and pine timber for mining and building purposes occurs throughout the area. The average annual rainfall is in excess of fifty inches and the larger streams of the area are of a perennial character. The main streams of the area to be explored are the Cossatot River and its tributaries. Adequate water for milling purposes is available throughout the year.

LABOR AND LIVING CONDITIONS

There is a good supply of unskilled labor consisting mostly of loggers and farmers. As a whole they are willing workers and learn rapidly. Many of the natives have had some experience in the limited type of surface mining operations that have been carried on intermittently throughout the area for the past fifty years. The prevailing rate for unskilled labor is seventy-five cents per hour, but the better class of labor cannot long be retained at this rate of pay. The normal rate of pay for skilled labor such as machine operators, etc., will have to be met.

Housing facilities are not available near the proposed mining operation. Local labor would probably be able to group together and handle their own transportation problems. Unless housing facilities were constructed at the mine, imported labor would have to be housed

at Nena and transported to and from the mining operation. A limited amount of adequate housing facilities are probably available in Nena. Living costs are relatively low when compared to other parts of the country.

HISTORY AND PRODUCTION

The manganese bearing area as a whole is large and extends from southeastern Oklahoma eastward to the vicinities of Glenwood and Hot Springs, Arkansas. This gives it a longitudinal length of a hundred miles or more and it has a north-south extent of six to twelve miles. Most of the manganese mining activity has been in the area between Nena and Glenwood. It has been mined and prospected sporadically for the past 75 years. The mining has consisted primarily of the surface or near surface extraction of the "free" ore by hand cobbing methods. A number of operators have unsuccessfully attempted in a crude way to do some milling by gravity methods. The operations have all been on a small tonnage basis and the vast majority of them of a crude type. Apparently little or no technical skill has been applied to the geological, engineering, or metallurgical problems involved.

No accurate figures as to the past production of manganese are available. The writer believes that 2,500 long tons of manganese would be a high estimate of the total production of the entire area.

No ore is being produced in the district at the present time but the world situation in the manganese market and its resultant effect on the price in recent years has created a new interest in the western Arkansas manganese district. Rumors of numerous proposed operations are reported.

GENERAL GEOLOGY

With some very minor exceptions such as volcanic tuff the rocks of the area are all of water-laid sedimentary origin. They are of Paleozoic age ranging from Cambrian to Carboniferous. Since the manganese is contained in the Arkansas novaculite and it is the most conspicuous formation of the area it is the only one that need be described in much detail in this report.

The areal extent of the Ouachita Mountains, in which the manganese deposits occur, is some 200 miles in length extending from Little Rock, Arkansas slightly south-westward into south-east Oklahoma. The north-south extent of this physiographic and geologic province is approximately 80 miles.

Structure

Structurally the Ouachita Mountains consist of highly folded weak and strong strata that form parallel east to west trending anticlines and synclines resulting in topographic ridges and valleys. However, the topographic features do not always correspond to the geologic structures, and anticlinal structures often occur topographically as valleys. A great deal of thrusting and cross faulting and cross folding has resulted from the forces which developed the extreme folding of some 25,000 to 30,000 feet of sediments. The attitude of the formations are normally observed to be steeply dipping beds due to the close folding and often the folds are overturned so that both limbs dip to the south. Locally there are areas where the folding has not been so intensive and the anticlines and synclines are of a broader

form with more gentle dips to their limbs.

Novaculite

The Arkansas novaculite is fully described by Miser and Purdue (U.S.G.S. Bulletin 808) and a detailed description will not be given in this report. It is essentially a pure silica chert, usually white or very light gray in color but commonly found in various shades of red, green, yellow, brown and mottled hues as well as black. The formation is predominantly chert with subordinate although substantial amounts of shale. The chert has a conchoidal fracture and breaks with sharp edges. It is brittle and highly fractured and jointed and is a fine grained homogeneous rock composed almost entirely of silica. It is composed of three stratigraphic divisions with a combined thickness of about 900 feet. Its maximum thickness is in the southern portion of the Ouachita Mountain region and it thins toward the north and at places has a thickness of only 240 to 300 feet. The lower division is made up principally of massive white novaculite ranging in thickness from 150 to 300 feet. This division makes up the most conspicuous part of the formation and is normally the part that is exposed on the crest of the ridges.

The middle part of the formation varies greatly in thickness from less than 100 feet to over 500 feet and is predominantly thin beds of interbedded chert and shale. The chert in this division is mostly black or dark gray in color, but otherwise is similar to that of the lower division. The shale occurs in uniform beds of various thicknesses and is normally of fissile argillaceous type, but is at places highly

siliceous. Miser and Purdue (op. prev., cited) state that, "In some places the novaculite layers are partly and in others wholly replaced by beds of conglomerate from 1 inch to 2 feet thick. The matrix of this conglomerate is very compact novaculite; its pebbles are small and well rounded to sub-angular, and their larger percentage are composed of novaculite, though some are of sandstone or other hard rock." This is interesting because of its similarity to some of the conglomerate beds occurring at the unconformity at the top of the lower division and its relationship to the manganese deposits.

The upper division of the novaculite occurs only along the southern border of the Ouachita Mountains and ranges in thickness from a few to over 100 feet. It is found chiefly in massive beds and ranges in color from white or light grey to some bluish black occurrences. It resembles the lower division in general appearance in its unweathered form. However, it is highly calcareous and upon weathering, it loses its calcium carbonate content and becomes porous and soft and contains a great many small cavities.

ORE DEPOSITS

Occurrence of Deposits

Manganese oxides in minor amounts can be found at random throughout the Ouachita Mountain area wherever the novaculite is exposed on the surface. Its most obvious occurrence is as fracture and joint fillings in the massive white novaculite. Very little of the novaculite can be walked over without finding float ore lying on the surface and not much ground can be covered without finding manganese in place in the novaculite as fracture fillings and on rock surfaces as purely

residual or secondary deposition. More infrequently, where rock deformation has been sufficient to create larger fractures and openings, the manganese is found as nodules and lumps ranging from a few inches in diameter to a foot or more; it also occurs as a cement or matrix of rock breccia, and as stalactitic and botryoidal deposits in the larger rock openings.

Manganese can be found, in minor quantities, throughout the stratigraphic range of the novaculite formation. However, the main deposition occurs at two horizons which are the top of the lower division and near the top of the upper division. The most productive horizon is that at the top of the lower division of the novaculite. It consists of massive strata and their deformation resulted in considerable fracturing and shattering. This permitted relatively free circulation of meteoric waters and epigenetic deposition of manganese oxides. The upturned edge of the manganese bearing strata can be followed across country and manganese deposition within it observed quite frequently and at times more or less continuously along the strike for several hundred feet. This horizon occurs immediately adjacent to a well developed regional parallel unconformity. Wherever this unconformity is exposed, it is readily discernible.

The better manganese deposits occur in the areas of greatest rock deformation where the fractures and openings are most numerous and of a larger character. The structures making up these more deformed areas are principally the noses or axis of plunging anticlines; and the axis of cross folds, drag folds, and cross faults. At such places

sufficient concentration of manganese to make up into material that can be classified as ore can frequently be found. There is usually a small percentage of so called "free" ore in these deposits that can be mined and shipped as a marketable product without further processing. There are larger amounts of mill ore from which a marketable product could be produced by proper milling methods. Where the conglomerate between the lower and middle division of the novaculite is present, it usually contains an appreciable amount of manganese. The possibilities of this type of ore were recently investigated in an exploration project on the property of the Arkansas Manganese Company in section 28, T. 8 S., R. 30 W., Polk County, Arkansas. The manganese in these conglomerate deposits is very finely intermixed with silica and present very difficult metallurgical problems. The ore occurring in the massive novaculite of the lower division is much more amenable to concentration by known metallurgical methods. It is quite obvious that some factor, probably lithologic in character, caused deposition of the manganese to be concentrated principally in this horizon adjacent to the regional unconformity between the lower and middle divisions of the novaculite formation.

Possibilities for finding rather large tonnages of ore containing five to six percent Mn are believed to be quite good. The individual deposits will probably range from tens of thousands to a few hundred thousand tons each. However, the mineralization is widespread throughout the novaculite area and undoubtedly a considerable number of deposits of the aforementioned grade can be found.

Most of the work done in the area in the past has been of a hi-grading nature. It consisted principally of surface mining of hi-grade portions of the manganese deposits. No attempt has been made to actually determine the size and grade of these deposits from an overall viewpoint.

EXPLORATION

In order to most effectively explore the area for possible deposits of manganese that can be profitably exploited it is recommended that a geological reconnaissance survey be made to select the most promising localities for exploration. In carrying out this work there are definite geological and engineering factors that should be followed. First, it should be remembered that the most promising horizon for occurences of manganese ore bodies is the upper twenty feet of the lower division of the novaculite formation. The second guiding principle is the locating of areas of the greatest deformation of this horizon created by local folding and/or faulting so as to form sizeable zones of open fracturing in which the manganese oxides could be deposited in sufficient amounts of concentration so as to form ore bodies. Another important factor is finding a combination of the two above mentioned conditions in such locations and attitudes that the ore can be cheaply and efficiently mined. The ideal condition would be where all of these factors are combined so as to present large bodies of ore occurring in such a manner so as to be adaptable to open pit mining methods and with a minimum of overburden to be removed.

The property held by the Inland Mining Corporation has had no mining done on it except for isolated surface digging in hi-grade

pockets.

A small exploratory program has recently been completed on one small area in the NE corner of section 35 and NW corner of section 36, township 3 south, range 30 west, Polk County, Arkansas. A map showing the geology, sample trenches, drill holes, roads, etc., on this tract is included with this report. Cross sections indicated on the map are also included.

Sample Results

Trench samples shipped to the laboratory had a total weight in excess of 3,500 pounds.

Trench samples 1-9 inclusive had an average manganese content of 5.08 percent. A composite of these samples gave the following results:

Mn	5.10	percent
Iron	5.60	"
Copper	0.02	"
Phos.	0.19	"

note - no length of sample given, or depth

Trench samples 100-118 inclusive had an average manganese content of 4.69 percent. A composite of this second group of samples gave the following results:

Mn	4.60	percent
Iron	2.44	"
Copper	0.03	"
Phos.	0.07	"

Drill cutting samples from Jackhammer holes were assayed and gave the following results:

No depth given on Jackhammer holes!

Hole No.	% Mn	Hole No.	% Mn
1	8.20	7	4.29
2	6.75	8	3.43
3	1.80	9	13.19
4	4.88	10	5.06
5	2.45	11	1.98
6	5.87	12	8.40

Jackhammer holes 1-4 inclusive averaged 5.4 percent manganese and a composite sample assayed 15.40 percent iron, 0.05 percent copper and 0.06 percent phosphorous. Jackhammer holes 5-12 inclusive averaged 5.06 percent manganese. A composite of these holes revealed an iron content of 5.90 percent, copper 0.02 percent and phosphorous 0.18 percent.

no depth or logs given - how deep? not within area of blocked out ore S.J.M.

Churn drill holes 1-4 inclusive were drilled on the relatively unbroken part of the formation (see cross section A-A) and samples assayed only two to three percent manganese. Hole No. 6 was abandoned, due to caving, before the ore horizon was reached (see cross section B-B).

no depth

Churn drill hole No. 7 encountered the ore horizon at a depth of 50 feet (see cross section C-C') and the following results were received from sample assayes:

Has 50 ft. overburden??

No! Middle Nonesuchite! See Sec. C-C'. S.J.M.

What about the first 50 feet? Rock or fill?

Sample Internal	% Manganese
50-54 feet	3.66
54-57 "	5.45
57-59 "	6.85
59-60 "	11.43
60-61 "	9.74
61-63 "	9.59
63-68 "	6.21
68-72 "	2.80
72-74 "	1.30

Base Middle Nonesuchite!

50 to 68 feet (?)

18' ore

50 ft overburden ? No!!

18' @ 6.46

6' @ 2.11

Churn drill hole No. 8 was drilled to a depth of twenty feet and

0-20' in upper 20' of Lower Nonesuchite

S.J.M.

showed less than two percent manganese. The highest assay was 1.84 percent Mn.

Churn drill hole No. 9 was drilled to a depth of twenty feet. The first 10 feet revealed a manganese content of 4.69 percent. As the drill hole progressed downward the dip of the beds carried the ore horizon away from the hole. Interval 10-15 contained 8.59 percent manganese and interval 15-20 dropped to 2.02 percent manganese.

The results of this exploration reflects the close geological control of the ore deposition and the importance of having geological guidance in any exploration program in the area. In this particular deposit the parallel drag folds apparently form the zones of fracturing contributing to localized concentration of the manganese. The full extent of these structures on this tract has not been completely explored. The work done does indicate a reserve of approximately 175,000 tons containing about 5 percent Mn. Some inferred tonnage could be added to this figure. It should be pointed out that all hi-grade pockets were by-passed in the collecting of trench samples. The Jackhammer holes were placed on the outcrop of the ore horizon without regard to grade of ore exposed. The churn drill holes, after the first four, were located for the geological information to be obtained and not on impressive ore exposures.

And the irregularity and instability of ore occurrence! discontinuous (?)

Conclusions

It is believed to be possible to find rather a large tonnage of manganese bearing material averaging five percent manganese in the western Arkansas manganese district. No doubt much of this would be susceptible to cheap open pit mining operations, by heavy equipment,

with only a nominal amount of stripping. It is doubtful if many deposits exceeding a few hundred thousand tons in size could be found, but a very great number of deposits in that size range probably are present. There are innumerable areas in the district that can be noted on the geologic map in U.S.G.A. Bulletin 808 that present inviting geological conditions for the occurrence of manganese deposits. Many manganese deposits are noted on the map. A few of these may be of considerably greater size than the one investigated by the small exploratory project discussed in this report.

The detailed method of exploration to be followed and the estimated cost of such a program are both fully outlined in the application for government aid which this report is being included with. Therefore, these factors will not be reiterated in this report.

Robert B. McElwaine

Robert B. McElwaine
Mining Geologist
December 17, 1951

Form MF-100
(May 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

GENERAL TECHNICAL DATA
FOR USE UNDER THE
DEFENSE PRODUCTION ACT OF 1950

NOT TO BE FILLED IN BY APPLICANT

Docket No. DMEA-2219

Date received 12-26-51

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 26 1951

Inland Mining Corporation
1408 M & W Tower Building and
523 Republic Bank Building
Dallas, Texas

Name and address of applicant

Date December 17, 1951

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (5) other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

GENERAL TECHNICAL DATA

Supply the following information on separate sheets, arranged, numbered, and lettered as indicated:

1. Materials produced:
   (*a*) What are the chief mine, mill, or smelter products?
   (*b*) What are the byproducts, if any?
2. Name(s) and type(s) of mine(s), mill(s), smelter(s), refinery(ies), pit(s), quarry (ies), drilling operation(s). Include old names of property, if any. Show extent of workings, including the following:
   (*a*) Linear feet of shafts.
   (*b*) Linear feet of drifts and crosscuts.
   (*c*) Linear feet of tunnels or adits.
   (*d*) Linear feet of other mine openings (explain briefly).

   Indicate whether mine is flooded or not. Describe any pumping problems. Give size or productive capacity.
3. For each operation listed above supply the following:
   (*a*) Distance and direction from nearest town and shipping point.
   (*b*) Mining district.
   (*c*) Township, Section, Range.
   (*d*) County, State.
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   - ☐ Owner.
   - ☒ Lessee.
   - ☐ Contractor.
5. Number of years in production None

   If not in production or operation, estimated date when production will begin as soon as adequate ore reserves are proven.
6. Experience of operators:

   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   (*b*) State briefly the known history and production of adjoining and neighboring properties.
   (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

8. Names and addresses of Officers, Directors, or Partners, and in addition thereto, the five largest stockholders if applicant is a corporation.

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation: Common (e)	Number of Shares Held in Applicant Corporation: Preferred (f)	Life Insurance Carried for Benefit of Applicant: Amount (g)	Life Insurance Carried for Benefit of Applicant: Net Cash Surrender Value After Loans (h)
Estill S. Heyser, Jr.	President "D"						
Cecil B. Chenoweth	V. Pres. "D"						
S. Austin Wier	Sec. Treas "D"						
(address of all above parties - 523 Republic Bank Bldg, Dallas, Tex)							
W. C. Jackson, Jr. ~~Mercantile Natl Bank~~ Building	Director						
Mrs. E. S. Heyser							
	Total		x x x x x			x x x x x	x x x x x

If more lines are needed continue on separate sheet.

9. Capital Stock Issues: **To be furnished later**

For Corporate Applicants

Item	Authorized (a)	Outstanding (b)	Par Value (c)	Number of Shares Outstanding (d)	Dividend Rate Last Paid* (e)
Common stock	$	$	$		
Preferred stock	$	$	$		

*Indicate period covered.

10. Production:

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)	None				
2. Quantity of product processed (specify unit of measure and type of process)	None				
3. Quantity and grade of product sold or shipped (specify units of measure)	None				

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change. Anticipate annual production of equivalent of 20,000 gross tons of metallic manganese

12. Ore or Mineral Reserves:

(a) Describe the ore or mineral deposit briefly. Accompany the application by any available report on the geology and ore reserves. See report accompanying this application

Inland Mining Corporation
1408 M & W Tower Building
& 523 Republic Bank Bldg.
Dallas, Texas

Form MF-100

GENERAL TECHNICAL DATA

1. (a) Propose to produce manganese concentrate or ferro-manganese

   (b) Railroad ballast and road materials

2. See attached report on proposed manganese project

3. (a) Mill site and approximate center of properties is approximately 17 miles, by macadam and gravel road, southeast of Mena, Arkansas.

   (b) Western Arkansas Manganese District.

   (c) Parts of townships 3 and 4 south in ranges 28, 29 and 30 West.

   (d) Polk County, Arkansas.

4. (a) Not in operation

   (b) To be operated as lessee

5. None.

6. (a) A new corporation (chartered February, 1951)

   (b) Cecil B. Chenoweth is general manager and has had wide business experience including contract road building and dirt moving experience.

   R. B. McElwaine, Consulting Mining Geologist, of Little Rock, Arkansas will direct and supervise the entire exploration project. A brief resume of his experience is as follows: 1935-43 developing and operating quicksilver mines in Pike County, Ark., as owner, geologist, engineer and consultant. 1943-45 mining engineer with U. S. Bureau of Mines doing examination work on strategic minerals and serving as project engineer on zinc and lead exploratory project in north Arkansas and on barite exploration project in Hot Springs and Montgomery Counties, Ark. 1946-47 consulting work and diamond core and churn drilling contractor with office in Little Rock. 1947-51 consulting work on practically all minerals in Arkansas for various individuals and companies including Lion Oil Company, Bird & Son, Inc., Magnet Cove Barium Corp., Arkansas Power & Light Co., Ozan Lumber Co., Southern Kraft Corporation, Westmoreland Manganese Corp., and numerous others.

   During the past 6½ years he has been actively engaged in prospecting and in acquiring mineral interests of his own and planning the development of them. One year was spent developing an open-pit

Inland Mining Corporation
1408 M & W. Tower Bldg
& 525 Republic Bank Bldg
Dallas, Texas

Form MF-100

GENERAL TECHNICAL DATA

magnetite deposit in Magnet Cove, Arkansas. He has served as engineer and geologist on three recent D.M.A. exploration projects as follows: Arkansas Manganese Company, Inc., Polk County, Arkansas; Westmoreland Manganese Corp., Batesville, Arkansas; and Ashley J. Gold and Joe Gold Antimony project in Sevier County, Arkansas.

D. R. W. Wager-Smith, of Albuquerque, New Mexico is consulting engineer in charge of surveying and properly marking, monumenting and filing of mining claims. He is a civil engineer of wide experience and is a licensed U.S. mineral surveyor.

Morgan G. Huntington, Consulting Engineer of Washington, D. C.

P. H. Royster, consulting metallurgist. Assistant chief metallurgist, U. S. Bureau of Mines.

Southwestern Engineering Company of Los Angeles, California, ore dressing consultants.

Bruce Williams Laboratories, Joplin, Missouri, ore analyses.

7. (a) See attached report

(b) Same as above

(c) Consult report by previous D.M.A. geologist who examined part of the properties early in April 1951. Also report by Morgan G. Huntington, Consulting Engineer, under date of October 1950. This latter report is on file in D.M.A. Docket No. 914.

17. One International TD24 tractors and bulldozers
One 220 C.F.M. diesel powered Jaeger portable air compressors.
One Chicago Pneumatic wagon drills.
Two jack hammers.
One Jeep pick-up truck.
One Jeep station wagon.
One 1950 Chevrolet one-ton flat bed truck.
All necessary office and surveying equipment, including transits, calculators, typewriters, etc.

Note: All of the above equipment was purchased new within the past calendar year.

(*b*) If deposit is other than placer:

(1) Submit assay plans and/or sections showing location and size of proved (measured) and probable (indicated) ore or mineral reserve.

(2) State the tonnage (indicate type of ton) and grade of each class of ore reserve, as above, and show how computed. Tabulated total ore reserve as follows:

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)					
Indicated (probable)					

(*c*) If placer:

(1) Give estimated total yardage and average marketable mineral content of each deposit.

(2) Submit map showing location of placer deposit and surrounding area, with all test holes or pits. Submit logs of each hole and test pit with depth and average value of each.

(3) Describe gravel, stating whether fine, medium or coarse; loose, tight, cemented, or frozen, and whether it contains stumps or boulders more than 1 foot in diameter; if so, how large, and in what proportion.

(4) Describe bedrock, giving type (granite, sandstone, shale, etc.) and state whether it is hard or soft, smooth, uneven or rough.

(5) Describe overburden, stating whether loose, tight, or cemented; fine or coarse textured; furnish estimate of average thickness and total amount.

(6) Tabulate the reserves using the form outlined above for ore or mineral reserves.

13. Access Roads: Approx. 17 miles by good blacktop and gravel roads from Mena, Ark. Detail information in attached report.

Give road distances to shipping, supply and residence points, stating kind and condition of roads.

14. Water Supply: Perennial streams of area furnish adequate year around supply of water

State source and quantity of water available for operations and whether sufficient for all seasons of year.

15. Power: To be determined. Electric power available

State amount of power used, rate per hour, and source thereof.

16. Labor: None except in surveying and prospecting crews.

State number and classes (miners, muckers, millmen, etc.) of men employed during a recent representative payroll period.

17. Equipment and Facilities:

Describe present equipment on the property, including buildings. (State condition.) List major pieces of equipment now owned or controlled and in serviceable condition available for this operation.

18. Are there any particular conditions or circumstances affecting your operations that are not described above? If so, explain.

See attached report

CERTIFICATION

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

Inland Mining Corporation
(Name of company)

By Cecil B. Chenoweth
(Signature of authorized official)
Cecil B. Chenoweth
First Vice-President
(Title)

December 17, 1951
(Date)

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

U. S. GOVERNMENT PRINTING OFFICE 16—63792-1

Form MF-104 (Rev. Apr. 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
Defense Minerals Administration
RECEIVED
OCT 19 1953

OPERATOR'S MONTHLY REPORT AND VOUCHER

Period
Month of 8/1/52 to 6/30, 1953 Docket No. DMEA 2299 Contract No. Idm-E-280
Operator's Name Inland Mining Corporation Minerals Manganese
Address 1408 Life of America Bldg Dallas, Texas
Contract Amount, $ 100,000.00 Government Participation: 75 % Amount, $ 75,000.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling						
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor		$6,467.65	$6,467.65			
Bookkeeping Service		800.00	800.00			
Technical Services (V6-3)	$400.00	5,085.00	5,485.00			
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
Typing-Final Report (V6-2)	13.50					
Freight on Rented Air Compressor (V12-12)	144.64	4,766.66	4,924.80			
(4) Operating Equipment:						
Rental		1,297.50	1,297.50			
Purchase		350.00	350.00			
Depreciation		1,774.10	1,774.10			
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment		231.57	231.57			
Sampling and Analysis						
Payroll Taxes		291.02	291.02			
Liability Insurance		122.37	122.37			
Compensation Ins.		304.65	304.65			
Ins. on Rented Air Compressor		7.13	7.13			
(8) Contingencies (specify):						
TOTALS	$558.14	$21,497.65	$22,055.79			

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

Date 8/20/53 *Payee INLAND MINING CORPORATION,

Per N. T. Townsend Title Assistant Treasurer

N. T. Townsend

*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)

*(Reflects corrected Reports for June and July of 1952 Filed June 24, 1953)

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

$1,992.68*

Signature
(Authorized Certifying Officer)

Date 10-19-53 Vou. No. DMEA 6-70
(See other side)

*See attached letter 11/10/53

(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. Tam E 280 in accordance with the terms of the contract.

Signature Edwin T. Perkins Title Mining Engineer Date Sept 2-1953

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature W. P. Williams Title Exec. Off. Date Sept. 2, 1953

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.

Defense Minerals Administration
RECEIVED
AUG 12 1953

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Period 7/1/52 to
Month of 6/30 195 3 Docket No. DMEA 2299 Contract No. Idm-E-280

Operator's Name Inland Mining Corporation Minerals Manganese

Address 1408 Life of America Bldg Dallas, Texas

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH Period	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts								
Winzes								
Drilling: ~~Core~~								
~~Churn~~ Pneumatic								
~~Auger~~ Hammer	Ft		none		1,070			
Stripping	Cu Yd		none		3,070			
Trenching	Ft		none		11,410			
Test Pits								
Roads and Trails	Ft		none		40,520			
	No		none		347			
TOTAL DISTRIBUTED COSTS		$558.14		$22,055.79				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		$558.14		$22,055.79				

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

Date 8/29/53 Operator INLAND MINING CORPORATION

Per W. T. Townsend Title Assistant Treasurer

W. T. Townsend

REMARKS: No work done on above items during period.

See narrative section of final report for project submitted with corrected billing for July 1952 on June 24, 1953.

→ 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

Inland Mining Corporation

LIFE OF AMERICA BUILDING

Dallas, Texas

August 20, 1953.

AUG 24
DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG 12 1953

Mr. W. P. Williams,
Executive Officer, DMEA
Field Team, Region VI,
Joplin, Missouri.

Re: Docket No. DMEA-2299
Contract No. Idm-D280
Inland Mining Corporation
Mena District
Manganese
Final Report For Period
Aug. 1,1952 to June 30,1953

Dear Mr. Williams:

We enclose original and three copies of Form MP-104 and 104-A covering the period Aug. 1, 1952 to June 30, 1953. This report is a final report on the captioned project and covers expenditures for the final field report as prepared by Mr. M. B. McElwaine, the Consulting Geologist on the project, which was included in the July 1952 report submitted on June 24, 1953. The other charges are for the typing of the field report by Lee's Letter Service in Joplin which you approved at the time of our recent conference in your office. The other item is for freight on the rentad air compressor from Mena, Arkansas to Browning Ferris Machinery Company in Dallas, Texas. We are not submitting copies of the original statements and invoices thereon as Mr. S. B. Talbert, DMEA Auditor, reviewed the statements today while completing the audit of all of Inland's billings and advised us it would not be necessary to furnish them in that he had verified and approved them as proper charges as included in this report.

We also advised Mr. Talbert that we had not been able to sell the $350.00 Thor jack hammer which was purchased during the period of the Government contract and included in a prior billing. Mr. Talbert advised us not to take this into account in this final billing, but stated that we should sell it and submit a Cashier's Check payable to the Treasurer of the United States to your office for seventy five per cent of the amount of the sale price, which we hope to be able to do at the earliest possible date.

Inland Mining Corporation

LIFE OF AMERICA BUILDING

Dallas, Texas

In regard to supplies left over which were purchased under the contract, we advised Mr. Talbert that we did not have any supplies other than some drill bits and miscellaneous small tools, such as machets, picks and shovels. These are presently stored in a warehouse here in Dallas and to date no one has offered us anything for them and it looks as though we will have to give them away to save the storage thereon. In view of this fact, Mr. Talbert asked that we request that you grant us a waiver so that we can dispose of them without remuneration and thus not be required to account to the Government thereon.

To date we have not received the certified copies of Mr. R. D. McElwaine's diary covering work by Inland on the Bear Tusk Claims for the month of May 1952, but as soon as they are received we will forward your office four copies as requested. Mr. Talbert also made some tentative adjustments covering our April and May 1952 billings in regard to the salary of the Resident Geologist and the fee of the Consulting Geologist which he will waive if we can furnish him with satisfactory explanation that all of their time during the subject months was spent on claims included under the Government contract. If you will recall this was discussed in the conference Mr. McElwaine and I had with you recently in Joplin and we feel certain that the charges made are in order. We have today also requested Mr. McElwaine to furnish us with five copies of a letter explaining his statements made in the field reports for the months of April and May, 1952, to satisfy Mr. Talbert's requirements, which he has agreed to furnish. Four copies of this letter will be furnished you at the same time the above mentioned affidavits are furnished.

Thank you for your consideration in this matter.

Very truly yours,

INLAND MINING CORPORATION,

By W. T. Townsend

Assistant Treasurer.

WTT/j

cc Mr. E. D. Talbert, Auditor,
Defense Minerals Exploration,
Department of the Interior,
Washington 25, D. C.

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

CORRECTED

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of JULY, 1952 Docket No. DMEA Contract No. IDM-E-280
Operator's Name INLAND MINING CORPORATION Minerals MANGANESE
Address 1408 LIFE OF AMERICA BLDG., DALLAS, TEXAS
Contract Amount, $100,000.00 Government Participation: 75 % Amount, $75,000.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling						
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor	$ 656.63	$ 5,809.02	$ 6,467.65			
BOOKKEEPING SERVICE Supervision V-7-22	200.00	600.00	800.00			
Technical Services 7-10	270.00	4,815.00	5,085.00			
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
SEE SCHEDULE	274.82	4,491.84	4,766.66			
(4) Operating Equipment:						
Rental V-6-4	266.67	1,030.83	1,297.50			
Purchase	--	350.00	350.00			
Depreciation	--	1,774.10	1,774.10			
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment		231.57	231.57			
Sampling and Analysis	89.62	201.40	291.02			
Payroll Taxes	10.09	112.28	122.37			
Liability Insurance COMPENSATION INS.	24.97	279.68	304.65			
INS. ON RENTED AIR COMPRESSOR V-6-54	2.13	5.00	7.13			
(8) Contingencies (specify): (*REFLECTS CORRECTED REPORT FOR JUNE 1952 FILED JUNE 24, 1953)						
TOTALS	$1,738.93	$ 19,760.72	$21,497.65			

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

Date 6-24-53 *Payee INLAND MINING CORPORATION

Per H. T. Townsend, T. TOWNSEND Title ASSISTANT 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:

$ 0

Signature
(Authorized Certifying Officer)

Date Oct 14, 1953 Vou. No. 6-70

(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. 7am E-280 in accordance with the terms of the contract.

Signature Edwin T. Perkins Title Mining Engineer Date June 26, 1953

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature W. P. Williams Title Exec. Off. Date June 26, 1953

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

Month of July 1952 Docket No. DMEA 2299 Contract No. Ida-2280
Operator's Name Inland Mining Corporation Minerals Manganese
Address Mena, Arkansas

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: Pneumatic								
Steam Hammer	Ft.		None		1070			
Auger								
Stripping	Cu. Yd.		None		3070			
Trenching	Ft.		None		11,10			
Test Pits								
Roads and Trails	Ft.		None		4,520			
	No.		None		347			
Total Distributed Costs								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 6-21-53 Operator Inland Mining Corporation

Per W. T. Townsend Title Consulting Engineer
W. T. Townsend

Remarks: No work done on above items during July.

See narrative section of report.

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

MONTHLY PROGRESS REPORT
For Month Ending July 31, 1952

Inland Mining Corporation
515 DeQueen Street,
Mena, Arkansas

To: Defense Minerals Exploration Administration
Regional Office
Joplin, Missouri
Docket No. DMA-2299 Contract No. Idm-1280

Narrative Section

All exploratory work except geological reconnaisance was discontinued during the month of July. A few men worked a few days during the month, as reflected on the accompanying payroll schedule, bringing machinery and supplies in from the field for storage and cleaning and servicing equipment as needed before storage.

The resident geologist spent considerable time on reconnaisance work and making examinations of known manganese occurrences. Part of the time he was assisted by one local man. The consulting geologist examined some of the areas previously visited by the resident geologist, but he only worked 5½ days during the month. Two areas that merit some exploration work were found.

The exceptionally heavy vegetation, numerous poison snakes, and abnormally hot summer weather have made field work very difficult and inefficient as compared to what can be accomplished during other seasons of the year. The Management considered it desirable to temporarily cease all exploratory work for the next sixty to ninety days until the conditions of undergrowth and weather were more favorable to efficient field work, and also pending completion of metallurgical test work now under way.

Metallurgical test work, ore dressing, etc., is, and will continue to be, carried on by the American Cyanamid Company and the Dorr Company, both companies working closely with our Consulting Geologist, Mr. Morgan G. Huntington. This metallurgical work is being done at the sole expense of the operator and all data obtained from the above mentioned work will be compiled and presented to D. M. E. A. before the operator's request that Stage II of our Contract be put into effect.

W. T. Townsend

W. T. Townsend, Assistant Treasurer

JUN 25 1953

Inland Mining Corporation

LIFE OF AMERICA BUILDING

Dallas, Texas

June 24, 1953.

Mr. W. W. Williams,
Executive Officer,
DMA Field Team, Region VI,
U. S. Department of the Interior,
221 West 3rd Street,
Joplin, Missouri.

Re: Docket No. IDM-2299 Manganese
Inland Mining Corporation,
Mena District, Polk County, Arkansas
Contract No. Idm-E-280

Corrected Operator's Report and
Voucher for the month of July, 1952

Dear Mr. Williams:

In accordance with your instructions, we enclose original and three copies of corrected Operator's Report and Voucher for the month of July, 1952. This Report supersedes the Report filed on August 14, 1952 and eliminates all costs incurred on mining claims not included under Inland Mining Corporation's Government Contract.

In the corrected billing we have made the following adjustments for work incurred during the period on claims not included in the Contract:

A. Labor -
No direct labor was done during the month of July on claims not included in the Government Contract. It has been determined and verified by the consulting geologist, Mr. R. D. McIlwaine, that the resident geologist did do some reconnaissance work during the period on claims not included in the Government Contract, but that this time was less than 40% of the subject employees time. We have therefore reduced the resident geologist's salary by 40%.

Payroll Taxes and Insurance -
Payroll taxes and insurance were reduced 40% on the salary of the resident geologist.

Inland Mining Corporation

LIFE OF AMERICA BUILDING

Dallas, Texas

Mr. W. P. Williams,
Joplin, Missouri.

June 24, 1959.

B. Bookkeeping Services -

No adjustment was made for Bookkeeping Services in that this was for the services of our Dallas Office and were not affected by work done on claims other than claims in the Government Contract.

C. Technical Services -

The consulting geologist, Mr. H. E. Caldwaine, worked 3 days during the period on claims included in the Contract and his fees for these services have been included. 2½ days time were on other claims and the charges therefore have been elimated for the 2½ days.

D. Operating Materials and Supplies -

Blue printing charges and assay charges were determined to have been incurred on other claims and therefore were excluded in the corrected billing. All other items in this category were incurred on claims included in the Government Contract, with the exception of automotive fuel used in the resident geologist's car and the charges thereon have been reduced 40%.

E. Operating Equipment -

Rental and insurance charges on the portable air compressor have not been reduced in that the air compressor was not used on claims not included in the Contract during the month and the Company incurred these charges for the equipment which at that time was being retained for possible additional work on claims included in the Government contract

Depreciation on equipment furnished by the Operator, while not exceeding the depreciation allowed in the Contract, was not charged in the original billing or the corrected billing, in that the equipment was not used during the month. As the field report reflects, the labor charges incurred during the month were for the protection of the equipment furnished and rented for the project.

We feel that the Corrected Report, with the adjustments as outlined, is a practical approach to the problem and reflects the minimum amount due the Company under the Government Contract.

Very truly yours,

INLAND MINING CORPORATION,

By W. T. Townsend
Assistant Treasurer

WTT/j

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

CORRECTED

OPERATOR'S MONTHLY REPORT AND VOUCHER

Defense Minerals Exploration Administration
Received
Audited

Month of JUNE, 1952 Docket No. DMEA _____ Contract No. DMA-E-280
Operator's Name INLAND MINING CORPORATION Minerals MANGANESE
Address 1408 LIFE OF AMERICA BLDG., DALLAS, TEXAS
Contract Amount, $100,000.00 Government Participation: 75 % Amount, $75,000.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling						
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor	$ 963.01	$4,046.01	$ 5,809.02			
BOOKKEEPING SERVICE Supervision V-6-37	200.00	400.00	600.00			
Technical Services V-6-36	990.00	3,825.00	4,815.00			
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
SEE SCHEDULE	670.77	3,821.07*	4,491.84			
(4) Operating Equipment:						
Rental C-4	297.50	733.33	1,030.83			
Purchase		350.00	350.00			
Depreciation	406.78	1,367.32	1,774.10			
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment		231.57	231.57			
Sampling and Analysis						
Payroll Taxes	43.34	218.06	261.40			
Liability Insurance	18.68	93.60	112.28			
COMPENSATION INS.	46.04	233.84	279.88			
INS. ON RENTED AIR COMPRESSOR (V-5-54)	5.00	—	5.00			
(8) Contingencies (specify):						
*(REFLECTS .020 OVERCHARGE ADJUSTMENT IN APRIL AND .865 OVERCHARGE ADJUSTMENT IN MAY, 1952 BILLINGS)						
TOTALS	$3,641.12	$16,119.60	$19,760.72			

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

Date 6-24-53 *Payee INLAND MINING CORPORATION

Per W. T. Townsend Title ASSISTANT 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:

$ 1,992.68

Signature _____
(Authorized Certifying Officer)

Date Oct. 14, 1953 Vou. No. 6-70

(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-280 in accordance with the terms of the contract.

Signature Edwin L. Perkins Title Mining Engineer Date June 26, 1953

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature W. P. Williams Title Exec. Off. Date June 26, 1953

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

RECEIVED

Month of June 1952 Docket No. DMEA 2299 Contract No. Idm-E280

Operator's Name Inland Mining Corporation Minerals

Address Mena, Arkansas

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~~ ~~Pneumatic~~								
~~Churn~~ ~~Hammer~~	Ft.		16		1070			
Auger								
Stripping	Cu.Yds.		3030		3030			
Trenching	Ft.		1561		11410			
Test Pits								
Roads and Trails	Ft.		10570		40520			
	No		43		347			
TOTAL DISTRIBUTED COSTS								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 15, 1952 Operator Inland Mining Corporation

Per W. T. Townsend Title Assistant Treasurer

W. T. Townsend

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.

U. S. GOVERNMENT PRINTING OFFICE 205676

JUN 25 1953

Inland Mining Corporation

LIFE OF AMERICA BUILDING

Dallas, Texas

June 24, 1953.

Mr. E. P. Williams,
Executive Officer,
DMEA Field Team, Region VI,
U. S. Department of the Interior,
221 West 3rd Street,
Joplin, Missouri.

Re: Docket No. DMEA-2299, Manganese
Inland Mining Corporation,
Mena District, Polk County, Arkansas
Contract No. Idm-2-280

Corrected Operator's Report and
Voucher for the Month of June, 1952

Dear Mr. Williams:

In accordance with your instructions, we enclose original and three copies of corrected Operator's Report and Voucher for the month of June 1952. This Report supersedes the Report filed on July 15, 1952 and eliminates all costs incurred on mining claims not included under Inland Mining Corporation's Government Contract.

The Field Report has been prepared by Mr. K. B. McElwaine, who was the Company's Consulting Geologist at the time and who was familiar with the field operations. All costs incurred during the month have been reviewed with Mr. McElwaine and all costs applicable to the claims which were not included in the Government Contract were eliminated 100% when they could be identified. The procedure followed on the other items is as follows:

A. Labor - All time sheets for direct labor were reviewed with Mr. McElwaine and compared with Mr. McElwaine's summary of field operations and all labor on claims not included in the Government contract were excluded. The salaries of the resident geologist and the field office secretary were allocated between the Government Contract claims and other claims on the basis of direct labor.

Payroll Taxes and Insurance -
Payroll Taxes and Insurance were allocated on the basis of the actual payroll as adjusted.

Inland Mining Corporation

LIFE OF AMERICA BUILDING

Dallas, Texas

Mr. W. P. Williams
Joplin, Missouri.

June 24, 1953.

B. Bookkeeping Services -

No adjustment was made for Bookkeeping Services in that this was for the services of our Dallas Office and were not affected by work done on claims other than claims in the Government Contract.

C. Technical Services -

Technical services consisted of fees paid to consulting geologist, Mr. R. D. McIlwaine and were adjusted from 20 days to 11 days in accordance with the records of the Company, which indicated the consulting geologist worked on approved claims for 11 days during the period.

D. Operating Materials and Supplies -

Blue printing charges, assay charges and express on ore samples applicable to claims not included in the Government Contract were excluded 100%. On other items in this category a reduction of 40.5% was made in that the analysis of direct labor for the month of June indicated that direct labor in this amount was employed on claims not included in the Contract. Attached to the billing is a schedule reflecting the computation of the amount of direct labor incurred on claims not included in the Government Contract.

E. Operating Equipment -

Rental and insurance on a portable air compressor used on the project were reduced 40.5% as being applicable to the time the compressor was used on claims not included in the Government Contract.

Depreciation on other equipment of the Operator furnished to the project was likewise reduced 40.5% for the time the equipment was used on other claims.

We feel that the Corrected Report, with the adjustments as outlined, is a practical approach to the problem and reflects the minimum amount due the Company under the Government Contract.

Very truly yours,

INLAND MINING CORPORATION,

By N. T. Townsend
Assistant Treasurer

NTT/j

INLAND MINING CORPORATION
Dallas, Texas

Basis of Allocation of Salaries of Bernard Archer, Resident Geologist, and Clarice Decker, Stenographer, for the Month of June, 1952 in Corrected Billing Under Government Contract

		Period 6/1/52-6/15/52	Period 6/15/52-6/30/52	Total
Payroll Per Original Billing		$1,280.57	$942.00	$2,222.57
Less Salaries Of:				
Bernard Archer	$ 200.00			
Clarice Decker	87.50	287.50	287.50	575.00
Payroll of Employees on which Time Sheets were kept		$ 993.07	$654.50	$1,647.57
Payroll of Employees on which Time Sheets were kept per Corrected Billing (Elimination of Actual time spent on Claims not included under Government Contract)		746.81	-0-	746.81
Amount of Payroll to Employees on which Time Sheets were kept disallowed in Corrected Billing		$ 246.26	$654.50	$ 900.76
% of Payroll to Employees on which Time Sheets were kept disallowed in Corrected Billing		24.8%	100%	40.5%
Salaries Per Original Billing:				
Bernard Archer		$ 200.00	$200.00	
Clarice Decker		87.50	87.50	
Total		$ 287.50	$287.50	
Less, Adjustment for Portion allocable to work or claims not included in Government Contract based on above percentages		71.30	287.50	
Per Corrected Billing		$ 216.20	$ -0-	
Bernard Archer		$ 150.40	--	
Clarice Decker		65.80	--	
		$ 216.20		

INLAND MINING CORPORATION
Dallas, Texas

Item 4 - Operating Equipment Furnished by Operator
Month of June, 1952

Item	Description	Value	Depreciation Allowable Per Month
1	International "TD-24" Crowler-type tractor with bulldozer attachment	$24,000.00	$ 400.00
1	250 cu. ft. per minute Diesel-powered "Jaeger" portable Air Compressor	6,700.00	111.67
1	"Chicago-Pneumatic" Wagon Drill - Complete	2,600.00	43.33
2	Jack Hammers, complete	720.00	12.00
1	Jeep pick-up truck, four-wheel drive with front-mounted winch	2,000.00	33.33
1	Jeep Station Wagon, four-wheel drive	2,000.00	33.33
1	Chevrolet truck, 1950, one-ton capacity flat-bed	1,000.00	16.67
	Surveying, drafting and office equipment, including transit, calculator, typewriter, etc.	2,000.00	33.33
	Totals Per Original Billing	$41,020.00	$683.66
	Less, 40.5% as determined by analysis of Direct Labor to be applicable to work on claims during the month not included in Government Contract		276.88
	Total Allowable Depreciation of Operating Equipment furnished by Operator Per Corrected Billing		$ 406.78

INLAND MINING CORPORATION

Monthly Progress Report

June 1952

DMEA Docket No. 2299

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MONTHLY PROGRESS REPORT

For Month Ending June 30, 1952

Inland Mining Corporation
515 Duquesne Street
Mena, Arkansas

To: Defense Minerals Exploration Administration
Regional Office
Joplin, Missouri
Docket No. DMEA-2299 Contract No. DMe-2260

A.) DATA SECTION

1.) The following table itemizes the units of work during the month.

Location	Bulldozer Trail Ft.	Bulldozer Trench Ft.	Feet of Hand* Trenching
Hurricane Hill	2,950	390	95
New Find	1,500		80
Baloff	3,400	285	30
Coon Creek	4,750	625	36
Boar Tusk No. 1			60
Boar Tusk No. 2	970		
	10,570	1,300	261

	Bulldozer Excavation yds.	Chip Channel Samples	Jackhammer Test Holes
Hurricane Hill			
New Find	1,050		
Baloff	950	1	3
Coon Creek	350		
Boar Tusk No. 1		5	
Boar Tusk No. 2	680		
	3,030	6	3

Location	Analytical Channel Samples	Metallurgical Channel Samples	Samples for Quantitative Analysis
Hurricane Hill	7	7	1
New Find	3	3	1
Baloff			
Coon Creek	6	6	1
Boar Tusk No. 1			
Boar Tusk No. 2			
American		1	1
	16	17	4

* This item consists of drilling and blasting sample trenches and cleaning them out by hand.

2.) Analyses, maps, and cross section profiles are included with this report.

SUMMARY

Four bulk samples from scattered locations were taken for
for quantitative analysis during the month of June. The results revealed no materials that would prevent using the beneficiation methods now being investigated for application to the western Arkansas manganese ores.

Approximately 4,000 pounds of carefully obtained samples were sent to American Cyanamid Company and the Dorr Company for metallurgical test work.

Some exploratory work was done at four new locations during the month. These areas have yelded much more encouraging results than any previously investigated. Computed averages of trench samples from three of them are as follows:

Location	Av. Thickness of ore zone	% of Mn
New Find	10'	8.22
Harricane Bill	11'	8.61
Coon Creek	12'	11.92

Estimated ore reserves containing plus 5% Mn are given below in long ton units.

Location	Indicated	Inferred
American	10,750	5,700
Boar Tusk	17,400	7,700
Baloff	500	10,000
New Find	40,000	20,000
Harricane Bill	55,000	30,000
Coon Creek	83,000	355,000
Other areas		200,000
	206,650	628,400

The conclusion points out the large unexplored area of manganese mineralization in the Ouachita Mountains.

General Discussion

During the month of June the work on the American group of claims and that on the Bear Tusk group was completed. Exploratory work was also done on the following properties: Baloff, New Find, Hurricane Bill and Coon Creek. The results of the work on the last three named properties were much more encouraging than those on any other properties investigated to date.

Metallurgical consultants working on the beneficiation of the western Arkansas ores requested complete quantitative analysis on ores from various parts of the district. Four bulk samples from various locations were obtained for this purpose. A description of these samples along with the results of the analyses are given at the back of this report.

Large bulk samples for metallurgical test work were also needed. These were obtained from four different localities and 300 to 600 pounds from each location were sent to both American Cyanamid Company and the Dorr Company. These were obtained at the same time that trench samples were being taken for analytical purposes. A full description of the taking of each sample is included in this report. Detailed assays are at the back of the report, but results of the metallurgical test work are not yet available.

During the month the consulting geologist and the resident geologist continued to do reconnaissance work as much as possible. A detailed record was made of the geology of all new areas visited. Considerable time was devoted to directing

the actual exploration and doing the sampling and mapping thereof.

American Group

The work on the American group of claims was completed early in the month. All of the trenches, that had been previously tested drilled and blasted, were cleaned out to permit visual inspection of the ore beds in place.

A sample for quantitative analysis was taken from trench No. 2 on claim No. 28 (See map from report for May, 1952). A detailed description of this sample is given following the analytical results of same at the back of this report.

A sample of metallurgical test work was taken from this same trench. About 2,000 pounds of ore were taken from the floor and walls of this trench which had been previously dug in the ore beds in place (see cross section of trench No. 2 in report for May, 1952). The sample material was taken over a lateral distance along the trench of about 30 feet ranging from drill hole N . 28 to drill hole No. 17. This material was broken down to minus two inches with sledge hammers. Fifteen sacks of the material were taken from the thoroughly mixed pile. The total weight was approximately 1,100 pounds. Eight sacks were shipped to the American Cyanamid Company and seven to the Door Company on June 12, 1952.

Estimated ore reserves on claims 28 and 29 of the American group are as follows:

	Long Tons	% Mn
Indicated ore	10,750	5
Inferred ore	5,700	5

Boar Tusk

The exploratory work on this property was completed and samples taken wheem it appeared to be indicated. Maps 105A and 105B show the geology and the work done on this group of claims.

There is a small amount of good ore along the crest of Boar Tusk Mountain. This crest borders the south side of the group of claims. Most of this ore is purely residual on the surface exposures and does not persist down the dip of the beds. A few hundred tons of ore would be readily available for mining in the vicinity of trenches 10, 11, and 12.

Good exposures of ore were made in the area of trenches 1 and 5 on claim No. 8 (Map 105A). A channel sample across an 8 to 9 foot bed in trench No. 1 had a Mn content of 8.40. Samples from trench N . 5 (see cross section on 105A plate 1) showed a true ore thickness of 11.5 feet. The average of this ore zone as computed from the assays is 6.53 percent manganese. Assays of each sample are given at the back of this report.

Some ore was uncovered by bulldozer trenching only on claim 12 (see map 105B). This is in the vicinity of some old workings and a small quantity of good ore is available. The area is highly distorted and the ore might persist downward for some distance. However it is at a height of only 15 to 20 feet above a perennial stream and the ore beds dip under this stream. This would preclude any extensive mining at this location and any further exploratory work was not considered. justified.

The estimated ore reserves for the Bear Tank group of claims is given below:

Classification	Long Tons	% Mn
Indicated	17,400	5 to 6
Inferred	7,700	5 to 6

Bluff

The general geology in this area consists of an over-turned turned fold truncated by erosion so as to expose the lower division novaculite lying on the middle division. There has been considerable east west shortening so as to form numerous cross folds in the semi vertical beds (See map 106 in pocket). It also appears that there has been some movement between the two divisions of the novaculite (See 106A Plate II) so as to cause excessive shattering and distortion of the beds immediately adjacent to the plane of movement. This may be a small thrust fault or it may merely be differential movement, caused by the cross folding, along this contract of competent versus less competent beds. At any rate it has caused considerable fracturing and development of a strong water course along a bed that is a known zone of manganese mineralization. All of these factors contribute to excellent conditions for the formation of manganese ore bodies. At one place where an erosional ravine cuts across the strike of the beds (See plate 106A) some oldexcavations had been made into the ends of the beds and a small tunnel driven about 20 feet along the strike.

During the month of June the old workings were cleaned out, enlarged, and a small amount of sampling done. Two vertical drill holes encountered mud and water and poor sludge recovery was obtained. The assays were quite low. One horizontal drill hole along the strike of the bed for a distance of six feet yielded samples with an average Mn content of 5.78 percent. A channel sample across the face of the ore zone showed a Mn content of 15.29 percent. The grade of the ore is apparently quite variable. Down the hill below the old workings were several piles of good ore that no doubt came out of them. They contained some 50 to 75 tons of selected ore. This is quite a good ratio in comparison with the total rock moved. The old dump also contained appreciable quantities of ore that had not been saved in the original prospecting work. Map No. 106A plate II shows two cross section views indicated on the plan map (106A). Map No. 106A plate I shows a vertical plane view along the line A A' on the plan map.

At site No. 2 (See map 106C) old workings showed some manganese. These workings were cleaned out and enlarged with the bulldozer. Some ore was observed here and also where the ore beds crossed the creek to the east. No samples were taken.

A new cut was made across the beds at site No. 3 (See map 106C). This work failed to uncover any good manganese ore.

This property merits additional explanatory work although the indicated ore at this time would not exceed 500 tons. The inferred ore reserves could reasonably be estimated to exceed 10,000 tons.

New Find

The ore body at this location is centered in a gentle cross fold or through on the near vertical north limb of a steeply folded anticline. Some of the surface dips indicate overturning but along the strike to the east and underground in an old tunnel (See map 107) and a short distance west of the area shown on the map normal north dips are present. Also across the crest of the ridge to the south (See cross section 107 plate I) the dip is to the north. Apparently the south dips are due to slumping of the beds near their contact with the less resistant middle division of the novaculite. The ore is in the normal ore horizon at the top of the lower division novaculite but it has a greater true thickness here than at most points.

Previous work here consisted of a tunnel about 60 feet long, as shown on map 107, and several test pits on top of the hill. Good ore is present on top of the hill in the vicinity of the test pits and along the strike of the beds for some 200 feet. Exploratory work done on this property during the month of June consisted of bulldozer excavation along the contact of the ore zone with the middle division novaculite, cleaning out the old tunnel, drilling and blasting a sample trench across the ore beds in the floor of the tunnel, and digging two sample trenches across the beds at the surface. The two surface sample trenches were not drilled and blasted so as to obtain samples due to lack of time.

The method of taking and preparing samples for analysis and metallurgical test work is described below: A trench two feet wide by two feed deep by thirty feet in length was blasted in the floor of the tunnel (See map and cross section). This is directly across the upturned edges of the near vertical beds. This trench was divided into three ten foot intervals. The broken rock was then shoveled out of the first ten feet to an equal depth along its length until approximately 900 pounds of sample material was obtained and placed on a wooden platform. This material was broken down to approximately minus two inch size by means of hammers. The sample material was then thoroughly mixed, coned and quartered. The opposite quarters were then combined, and sacked for metallurgical samples. This resulted in six sacks of material weighing a total of about 450.pounds. The remaining quarters were combined and re-split to obtain approximately 150 pounds of material for analysis. The same procedure as outlined above was followed to obtain similar samples from the other two sample intervals of ten feet each. Nine sacks of samples, or approximately 650 pounds, were sent to the American Cyanamid Company and the Dorr Company respectively. Six sacks of samples, totaling 450 pounds, and representing three sample intervals were sent to the Bruce Williams Laboratories at Joplin, Missouri for analysis to determine content of manganese, copper, iron and phosphorous. Results of these analyses are given at the back of this report. The Mn

content of each interval was 8.22, 2.83 and 2.15 percent respectively. This gives a twenty foot zone averaging 5.53 percent or a thirty foot zone averaging 4.40 percent.

Initially, before doing any work at this location, a sample for quantitative analysis was taken. The results of the analysis are given at the back of this report and is followed by a description of the sample and the ore type. It should be noted that all samples from this deposit are exceptionally low in content of iron, copper and phosphorous. The fact that these samples were taken at a point 15 to 20 feet underneath the surface (See cross section 197 plate I) should be noted. The type of ore present here indicates that a good intermediate concentrate could be readily obtained by means of the RMS process. Results of the metallurgical test work now under way should confirm this opinion.

An estimate of the ore reserves available in this deposit are given below:

Classification	Long Tons	% Mn
Indicated	40,000	5
Inferred	20,000	5

Hurricane Bill

The geology of the Hurricane Bill manganese deposit is different to any that have been explored under this project to date. Map 108 shows the geology and exploratory work done in this area.

The ore occurs in the upper division of the novaculite formation about ten to fifteen feet above the stratigraphic contact of this formation with the younger Stanley shale formation. The beds in the vicinity of the ore deposit are considerable overturned, and have a north dip of 30 to 60 degrees. Following the strike of the beds a few hundred yards east and west away from the ore deposit they gradually change their dip until it is only slightly to the north. In the vicinity of the ore deposit there has been considerable movement between the main ore bed and the hanging-wall bed (See cross sections on 100 plate II). This movement has been sufficient to distort and fracture the ore bed so as to create numerous open fractures of varying sizes. This has provided a most favorable condition for manganese mineralization. The ore is of higher grade and more consistent character than the normal deposits of the area.

A sample for quantitative analysis was taken from this deposit. The results of this analysis are given at the back of this report. They are followed by a detailed description of how the sample was taken and prepared, and a description of the ore. It will be noted that the iron, copper and phosphorous content are low in all of the samples from this deposit. Where the ore bed was opened up in fresh unweathered rock below the zone of oxidation it was observed that the open type of fracturing was present the same as at the surface. These fractures were filled with hard manganese minerals.

The exploratory work at this location consisted of bull-dozer trenches across the strike of the ore beds. Where ore was uncovered the ore bed was cut with a trench two feed deep by two feet wide by means of drilling and blasting. At the location of sample No. 2 (See map 108) an old shallow shaft (See cross section 108 plate I) was cleaned out by hand and the sample trench blasted in the bottom of it. A total of five trenches varying in length from 16 feet to 8 feet were dug. Trenches 1 and 2 were 14 and 16 feet in respective length. They were divided into two sample intervals. The other three trenches were each sampled as one interval. The material making up each sample was taken from its respective trench to a uniform depth, broken to minus two inches, coned and quartered. Two quarters from each sample were combined for metallurgical test work samples, The remaining two quarters were combined and then split in order to obtain a 75 pound bulk sample for analytical purposes. Six hundred pounds were sent to both American Cyanamid Company and the Dorr Company for metallurgical test work. Five samples totaling 375 pounds were sent to Bruce Williams Laboratories for analysis. Detailed results of analyses are to be found at the back of this report. The computed average of the manganese content is 8.61 percent. The true thickness of the ore zone as sampled at each sample location is as follows:

Trench No.	True Thickness
1	12.5'
2	14.5'
3	6.5'
4	7.0'
5	6.5'

An estimate of ore reserves at the Harricane Hill deposit is as follows:

Classification	Long Tons
Indicated	
Inferred	30,000

Goon Creek

This area has yelded ore of a higher grade than any sampled under this project to date. Near the closure of a relatively broad syncline, which is also a topographic valley in this area, the drainage has cut down through the nearly flat lying beds near the axis of the syncline so as to expose the ore horizon on each side of the drainage valley. This ore horizon is the one at the top of the lower division of the novaculite formation. The pitch of the syncline is roughly the same as the stream gradient. This condition exists for a distance of about one half mile and exposures of the ore horizon can be observed intermittently along each side of the stream for the entire distance. At about the location of the sample area shown on map 109 the drainage starts to cut across the structure and continues this trend until it has cut completely across the south limb of the syncline. The cross section shown on 109 plate I shown the general conditions existing at the indicated location of the cross section on map 109. This is the general condition existing up stream from this location for about one half mile and down stream for a few hundred feet. Frequent out-

crops of good ore can be observed on both sides of the stream valley and considerable good float ore is present in the valley for the entire distance described. Numerous old test pits are present along the outcrop of the ore horizon on both sides of the valley. In practically every instance some ore has been uncovered by this work and in most places it is ore of good quality. The most extensive workings are in the zone of sampling shown on map No. 109. A quarry type of operation at this location had opened up an excavation about 120 feet in length by 60 feet in width with a face about 20 to 25 feet in height. This excavation was extended eastward about 40 feet by bulldozing to uncover the ore in this direction. Continuing on eastward across the small drainage ravine the ore zone can be observed for about 200 feet before it becomes covered with overburden and is subsequently cut across by the drainage valley.

The north limb of the syncline has a gentle south dip which steepens up the limb. At a point several hundred yards to the north and some 400 to 500 feet higher in elevation the ore horizon outcrops on the ridge paralleling the valley. It has a steep south dip at this point and can be followed eastward for three fourths of a mile and about the same distance to the west. Along this high outcrop exposures of ore can be intermittenly observed. The south limb of the syncline attains a steep dip immediately south of the axis. The upper extension of the ore horizon is covered with overburden for the entire length of the ridge and cannot be prospected by examinati n of surface outcrops.

Bulldozer trenching was employed to uncover the contact at two locations as shown on map No. 109. At both points the ore horizon was observed to carry manganese but not in sufficient quantities to constitute ore. Uncovering the ore horizon at frequent intervals along this contact would be justified. To the west the amount of middle division novaculite left in place gradually diminishes until it is practically nonexistent at the closure. There is very little of it in place on the lower portion of the north limb of the syncline and going westward from the location of cross section A-A' the middle division novaculite is to be found only locally for a distance of several hundred feet north of the stream. In this area there are numerous outcrops of ore and a great deal of good float.

A sample for quantitative analysis was taken from the main cut and showed a manganese content of 18.47 per cent. Results of the analysis are given at the back of this report and are followed by a description of the sampling procedure and of the ore. The ore is of a character that would be much more susceptible to beneficiation than many of the ore types of the region. The workings at this point were made during World War II. Apparently the operators were interested only in the large pieces of free ore as the dump is practically all made up of relatively high grade ore comparable to that exposed in the face. A considerable quantity of free ore is intermixed with it.

The sampling at this location consisted of three vertical

trenches two feet wide by two feet deep cut into the face. The ore horizon is made up of two beds 6 to 7 feet in thickness. At each sample location the upper bed was trenched and sampled first and then the lower bed in order to obtain two sample intervals. As each sample interval was broken out it was piled up at the base of the face. Approximately 600 pounds of the material was taken from the pile by shoveling a trench through it. This material was placed on a wooden platform, broken down to minus two inches, thoroughly mixed, coned and quartered. Opposite quarters were combined to make up a metallurgical sample. The remaining quarters were recombined and a 75 pound sample cut from this material for analytical purposes. The metallurgical samples were divided evenly and one lot sent to American Cyanamid Company and one to The Dorr Company. Six seventy five pound samples were sent to Bruce Williams Laboratories for analysis of Mn, Fe, Cu, and P. Results of the analyses are at the back of this report. The computed average of the six samples shows a Mn content of 11.92 per cent.

An estimate of the ore reserves of this area are given below:

Location	Classification	Long Tons	% of Mn
Parsons Claim	Indicated	53,000	8 to 10
Parsons Claim	Inferred	140,000	5 to 8
Myer Claim	Indicated	30,000	6 to 8
Myer Claim	Inferred	215,000	5 to 7

Other Areas

Numerous locations have been visited where it is readily apparent that five to ten thousand tons of ore could be obtained by surface gouging operations. Some of them have structural

conditions that might contribute to the presence of substantially larger amounts of ore. Many of these deposits would merit mining and no doubt would contribute materially to the ore reserves available in the area, if sufficient tonnage can first be proven in larger deposits to justify the large capital investment that will be needed for a manganese operation in this district.

The amount of inferred ore available at 15 different locations examined is roughly estimated to be 200,000 tons. Most of these deposits are of such a character that they do not justify much exploratory work. Some ore is available at all of them and if a mining operation was going on in the area it would be better to move in on them and mine as long as the ore lasted and then move on rather than spend any appreciable amount of money on exploration.

Conclusion

The first two months of the project were not very productive as far as proving of substantial ore reserves is concerned. They were very profitable in other ways. The work helped develop several geologic principals to use as a guide in selecting areas for future work. It also helped formulate some general methods of exploration to be utilized in exploring different types of manganese deposits. Utilization of the geologic principals mentioned above assisted in the location of a few favorable deposits that were investigated in the third month.

Four areas known as Balaff, New Find, Hurricane Bill and Coon Creek deposits were explored with some initial work during the month of June. All of them contained some good ore and excellent geologic conditions that indicated possible extension of the ore deposits as revealed at the surface. Smaller quantities of ore, ranging in manganese content from 10 to 20 per cent, are available in numerous places throughout the manganese area. It is not believed to be possible to develop large reserves of this grade of ore. It is quite possible that substantial reserves of material containing approximately 5 per cent manganese can be proven to exist throughout the area but it is not anticipated that many very large deposits will be found. Deposits on the order of five to fifty thousand tons will probably be the rule. In some areas several such deposits may be found relatively close together.

The area of manganese mineralization is very large. It is roughly estimated to cover 350 to 400 square miles in Arkansas plus a good deal more in Oklahoma. Most of the manganese area in Arkansas is on public domain or Peek's Law land and thus can generally be easily acquired for mining purposes. Practically all of the manganese area in Oklahoma is privately owned and would have to be individually negotiated for either by lease or by purchase.

The area examined by geologists of this company makes up a very small percentage of the total area. There are many known prospects that have not been visited and a great deal

of geologically favorable area that has never been examined by technically trained men. There are no doubt hundreds of occurrences of manganese throughout the area. However, only a small percentage of them are likely to have economic possibilities.

R. B. McFlwaine
Consultant for Inland
Mining Corporation.

JUL 19 1952

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 1952 Docket No. DMEA 2299 Contract No. Idm-E 280

Operator's Name Inland Mining Corporation (Mena, Arkansas) Minerals Manganese

Address 1408 Life of America Bldg Dallas, Tex

Contract Amount, $ 100,000.00 Government Participation: 75 % Amount, $ 75,000.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling						
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:	$2531.63	2314.38	$4846.01			
Bookkeeping Service V5-48	200.00	200.00	400.00			
Supervision V5-10	2115.00	1710.00	3825.00			
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track 2339.27			3821.07			
See Schedule	2339.22	1482.80*	3822.02			
(4) Operating Equipment:						
Rental V5-8	500.00	233.33	733.33			
Purchase		350.00	350.00			
Depreciation	683.66	683.66	1367.32			
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment		231.57	231.57			
Sampling and Analysis						
Payroll Taxes	113.91	104.15	218.06			
Liability Insurance	49.06	44.54	93.60			
Compensation Ins.	120.94	112.70	233.64			
(8) Contingencies (specify):						
* 2¢ overcharge adjustment made on April 1952 billing.						
TOTALS	$8653.42	$7467.13	$16120.55			

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 18 1952

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

Date June 14, 1952 *Payee INLAND MINING CORPORATION

Title Vice-President and General Manager

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

$ 6,489.35

Signature _____ (Authorized Certifying Officer)

Date _____ Vou. No. DMEA-6-34

(See other side)

*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)

(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. E-280 in accordance with the terms of the contract.

Signature Wm. P. Williams Title Geologist Date 6-20-52

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature [illegible] Title Exec F. T. Date June 20, 1952

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

INLAND MINING CORPORATION
Dallas, Texas

Item 4 - Operating Equipment Furnished by Operator
Month of May, 1952

Item	Description	Value	Depreciation Allowable Per Month
1	International "TD-24" Crowler-type Tractor with Bulldozer attachment	$24,000.00	$400.00
1	250 cu. ft. per minute Diesel-powered "Jaeger" portable air compressor	6,700.00	111.67
1	"Chicago-Pneumatic" Wagon drill,complete	2,600.00	43.33
2	Jackhammers, complete	720.00	12.00
1	Jeep pick-up truck, four wheel drive with front-mounted winch	2,000.00	33.33
1	Jeep Station Wagon, four-wheel drive	2,000.00	33.33
1	Chevrolet truck, 1950, one-ton capacity flat-bed	1,000.00	16.67
	Surveying, drafting and office equipment, including transit, calculator, typewriter, e etc.	2,000.00	33.33
	Totals	$41,020.00	$683.66

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 1952 Docket No. DMEA 2299 Contract No. Id-1200
Operator's Name Inland Mining Corporation Minerals Manganese
Address Nona, Arkansas

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~~ Percussion								
~~Churn~~ Hammer	Feet		676		2,054			
Auger								
Stripping								
Trenching	Feet		6,820		9,819			
Test Pits								
Roads and Trails	Feet		10,700		29,950			
Samples	No.		304		491			
Total Distributed Costs								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 15, 1952 Operator Inland Mining Corporation

Per Cecil B. Chenoweth Title Vice-Pres. Con. Mgr.

Cecil B. Chenoweth

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:

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
JUL 18 1952

(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

MONTHLY PROGRESS REPORT

For Month Ending May 31, 1952

Inland Mining Corporation
515 DeQueen Street,
Mena, Arkansas

To: Defense Minerals Exploration Administration
Regional Office
Joplin, Missouri
Docket No. DMEA-2299. Contract No. Idm-E280

A. DATA SECTION

Location: Polk County, Arkansas.

1.) The following table itemizes the units of work during the month.

Location:	Bulldozer Trail Ft.	Bulldozer Trench Ft.	Feet of Hand Trenching
Caddo	600	620	
Boar Tusk	18,100	5,800*	
American		100	300**
	18,700	6,520	300

	Jackhammer Test Holes	Feet of J.H. Test Holes	Drill Hole Samples
American	104	676	304

* This item includes considerable drilling and blasting.

** Cleaning out blasted trenches by hand in bottom of trenches reported last month.

2.) Analyses, maps, and cross section profiles are at back of report.

B. DISCUSSION SECTION

Some additional bulldozer work was indicated on exploration site 5 on claim No. 29 of the American Group of claims. Three days were spent on this work.

On exploration sites 4 and 5 on the American Group of claims the drilling and sampling were completed. Analyses of all samples taken are included with this report along with profile cross sections of the trenches. All of the holes that were drilled for sample purposes were loaded with dynamite and blasted. At the end of the month the trenches thus made were being cleaned out by pick and shovel method so as to permit visual examination of the ore beds. This work reveals the erratic nature of the manganese occurrences. Much of the material is almost entirely void of manganese. Where the manganese occurs it is in pockets and seams so that if this material was separated from the country rock it would have an estimated manganese content of 10 to 25 percent. This type of ore occurrence would readily yield to treatment by heavy media separation methods.

Most of the ore in trench 1-A is confined to a bed approximately two feet thick. In the drill hole sampling the sample intervals did not break exactly at the top and bottom of this bed. Therefore, the

cuttings from this zone were blended with more or less blank material from above and below this bed. By selecting one sample interval from holes 16-20 inclusive an average manganese content of 3.94 percent is obtained. Visual observation of the ore bed indicates that it contains 5.0 to 6.0 percent manganese. This estimate is supported by the 3.94 percent figure which is a result of the blended samples from the drill holes.

Trench 2 contained one group of holes from 8 to 15 inclusive that revealed an average analysis of 4.01 percent Mn. Another group from 19 to 27 inclusive contained 5.75 percent Mn. The computed average of the entire 16 holes is 4.99 percent Mn. Hole 28 in the overlying thin bedded chert of the middle division novaculite (see cross section) contained 6.17 percent Mn. The upper portion of hole 29 was in this same zone, at one side of the trench, and contained 6.61 percent Mn.

In trench 3 the first 2 foot interval of holes 20 and 21 were in blank material overlying the ore bed. This was revealed when the drill holes were blasted out. Omitting the first sample from each of these two holes, the computed average of holes 20 to 27 inclusive is 4.66 percent Mn.

Trench 4 was in a highly leached outcrop and no samples was taken.

Trench 5 was also highly weathered and drill hole sampling revealed an average manganese content for this trench of only 2.12 percent.

Trench 6 revealed an ore zone of only about two feet in thickness. This is indicated by results of analyses on samples from holes 16 to 24 inclusive. One sample interval in each of these holes had a higher manganese content than the other intervals. The average of the highest interval, in manganese content, from these nine holes is 3.90 percent manganese. As in trench 1-A the samples were blended with lower grade material from above or below the ore bed. It is estimated that the two foot bed alone contains 5 to 6 percent manganese.

3

Trench 6-A is higher up the slope than trench 6, and on the outcrop of the beds in which the ore normally occurs. Holes 4 to 12 inclusive showed an average manganese content of 2.94 percent.

Trench 7 is apparently near the west end of the deposit. One sample interval from holes 18 to 24 inclusive showed a manganese content of 4.52 percent.

In trench 8 holes 1 to 5 inclusive contained an average of 2.74 percent Mn.

Bulldozer trenching was completed on exploration site No. 1 on the Caddo Group during the month. This work revealed that no further work was justified in this location and therefore it was abandoned. The only mineralization, below the surface outcrop, is confined to a narrow zone of a few inches at intermittent points along the contact

between the top of the lower division of the novaculite and the base of the middle division of the formation.

Twelve claims known as the Boar Tusk Group were submitted to the Executive Officer of DMEA for approval and an amendment to the contract was written by him approving exploration work on this property. Considerable bulldozer trenching was done on this property during the month (see map attached). Much of the work obtained negative results but two localities, trenches Nos. 1 and 5 on claim No. 8 and an outcrop in the northwest portion of claim No. 12, showed some ore. No sampling had been done as of the end of the month.

During the month the consulting geologist was on the job 23½ days. Twelve and three quarter days were spent directing and supervising the exploration work and sampling. Almost daily contact is required with the work of the bulldozer in order to observe the geology uncovered and direct this work so as to prevent extensive needless moving of dirt and rock. Ten and three quarter days were spent in geological reconnaissance work. A considerable number of known occurrences of manganese were examined and numerous areas of unknown value were visited and the geology noted and recorded.

Most of the deposits visited were minor occurrences without any possibility of being proven to be ore bodies of sufficient size and grade to justify their consideration for future mining. The importance of sufficient rock defor-

mation along with a large enough structural condition to permit concentration of manganese into potential orebodies becomes increasingly emphasized as the area is studied. It is also becoming increasingly apparent that manganese deposits of any consequence are confined to two specific horizons. One of these is an 8 to 10 foot member near the top of the upper division of the novaculite. The other is composed of the beds immediately below the unconformity at the top of the lower division of the novaculite. The character of these two horizons vary from one locality to another and in certain areas they appear to be far more receptive to mineralization than in others. Manganese mineralization is widespread and by following these two horizons intermittent occurrences of manganese can often be followed for considerable distances. This is particularly true high on the ridges. However, most of these occurrences consist of surface or near surface mineralization. When a few feet is removed from the outcrop the amount of manganese present becomes insignificant. It is only in areas of rock deformation sufficient to create widespread, open fracturing that the mineralization can be expected to persist down the dip of the beds. In some areas where this type of fracturing is present, the magnitude of the structure is too small to permit the formation of orebodies of large enough areal extent to be of importance. The combination of adequate fracturing, large enough structure, and location of these two factors in areas where a sufficient source of manganese was available to

permit its concentration into orebodies is a "must" before any deposits with commercial possibilities can be developed. On the ends of ridges where erosion has exposed the ore horizons it is quite common to find good manganese outcrops for some distance down the hill but only rarely will such deposits have any persistence in depth.

Where extensive structural deformation has taken place it is quite common to find the outcrop to be highly mineralized with iron. If manganese is present, it does not show up for a few feet down the dip then is likely to be good ore and rapidly becomes relatively iron free as it is followed downward.

6

The actual exploratory work to date has not been very fruitful. Some of the new areas examined and now being acquired have far more promising prospects. With the ever increasing information being obtained on the mode of occurrence of the manganese it is believed possible that some worthwhile deposits may be proven at various localities throughout the western Arkansas manganese district. This is ofcourse predicated on a satisfactory method of beneficiating the ore. It is believed that such a method has now been determined and that substantiating data to that effect will soon be available.

R. B. McElwaine

R. B. McElwaine
Consultant for Inland
Mining Corporation.

INLAND MINING CORPORATION
Mena, Arkansas

Analyses of Samples From Rock Drill Holes

Exploration Site No. 4 on American Group of Claims

Trench No. 1 A

Hole No.	Sample Interval	% Manganese
1	0-2	0.12
1	2-4	0.16
1	4-6	2.24
2	0-2	0.40
2	2-4	5.47
2	4-6	0.33
3	0-2	2.81
3	2-4	1.18
3	4-6	1.46
4	0-2	1.36
4	2-4	1.72
4	4-6	0.89
5	0-2	2.35
5	2-4	3.36
5	4-6	0.75
6	0-2	1.07
6	2-4	0.93
6	4-6	1.40
7	0-2	0.38
7	2-4	0.09
7	4-6	0.29
8	0-2	0.09
8	2-6	0.12
8	4-6	0.07
9	0-2	0.12
9	2-4	0.07
9	4-6	0.05
10	0-2	0.17
10	2-4	0.09
10	4-6	0.91
11	0-2	0.12
11	2-4	0.17
11	4-6	0.58
12	0-2	0.20
12	2-4	0.15
12	4-6	0.25
13	0-2	0.38
13	2-4	1.49
13	4-6	0.74
14	0-2	1.62

INLAND MINING CORPORATION
Mena, Arkansas

Analyses of Samples From Rock Drill Holes

Exploration Site No. 4 on American Group of Claims

Trench No. 1 A

Hole No.	Sample Interval	% Manganese
14	2-4	0.71
14	4-6	1.16
15	0-2	0.40
15	2-4	2.72
15	4-6	1.40
16	0-1.5	0.92
16	1.5-3.5	0.45
16	3.5-5.5	3.92
17	0-2	1.48
17	2-3.5	3.28
17	3.5-5.5	1.69
18	0-2	5.66
18	2-3.5	5.31
18	3.5-5.5	2.20
19	0-2	2.54
19	2-3.5	2.71
20	0-2	4.49
20	2-3.5	0.65
20	3.5-5.5	0.57
21	0-2	1.08
21	2-3.5	0.83
21	3.5-5.5	1.08
19	3.5-5.5	0.29

INLAND MINING CORPORATION
Mena, Arkansas

Analyses of Samples From Rock Drill Holes

Exploration Site No. 4 on American Group of Claims

Trench No. 2

Hole No.	Sample Interval	% Manganese
1	0-2	0.15
1	2-4	0.15
1	4-6	2.86
2	0-2	3.69
2	2-4	3.39
2	4-6	1.69
3	0-2	1.38
3	2-4	0.62
3	4-6	0.17
4	0-2	0.49
4	2-4	0.66
4	4-6	1.71
5	0-2	2.12
5	2-4	0.28
5	4-6	0.85
6	0-2	3.11
6	2-4	0.38
6	4-6	1.05
7	0-2	4.51
7	2-4	1.17
7	4-6	1.09
8	0-2	4.08
8	2-4	1.32
8	4-6	0.83
9	0-2	6.30
9	2-4	6.62
9	4-6	6.57
10	0-2	3.64
10	2-4	3.69
10	4-6	2.69
11	0-2	2.12
11	2-4	1.98
11	4-6	2.83
12	0-2	7.52
12	2-4	2.44
12	4-6	7.27
13	0-2	2.75
13	2-4	0.77
13	4-6	0.17
14	0-2	4.64
14	2-4	2.84

INLAND MINING CORPORATION
Mena, Arkansas

Analyses of Samples From Rock Drill Holes

Exploration Site No. 4 on American Group of Claims

Trench No. 2

Hole No.	Sample Interval	% Manganese
14	4-6	3.84
15	0-2	12.72
15	2-4	2.24
15	4-6	0.64
16	0-2	0.89
16	2-4	1.21
16	4-6	0.10
17	0-2	0.17
17	2-4	1.77
17	4-6	0.55
18	0-2	1.21
18	2-4	1.18
18	4-6	1.03
19	0-2	2.98
19	2-4	1.90
19	4-6	5.21
20	0-2	1.12
20	2-4	3.16
20	4-6	8.42
21	0-2	3.94
21	2-4	7.05
21	4-6	2.52
22	0-2	1.74
22	2-4	9.03
22	4-6	4.00
23	0-2	4.26
23	2-4	10.31
23	4-6	2.70
24	0-2	10.90
24	2-4	7.60
24	4-6	6.09
25	0-2	9.88
25	2-4	11.15
25	4-6	6.17
26	0-2	11.91
26	2-4	3.35
26	4-6	2.44
27	0-2	10.54
27	2-4	2.75
27	4-6	4.17
28	0-2	6.17
29	0-2	6.61
29	4-6	3.51
29	2-4	3.02

INLAND MINING CORPORATION
Mena, Arkansas

Analyses of Samples From Rock Drill Holes

Exploration Site No. 4 on American Group of Claims

Trench No. 3

Hole No.	Sample Interval	% Manganese
1	0-2	1.31
1	2-4	1.11
1	4-6	2.43
2	0-2	1.17
2	2-4	2.22
2	4-6	1.82
3	0-2	0.69
3	2-4	0.37
3	4-6	0.28
4	0-2	0.14
4	2-4	0.31
4	4-6	0.58
5	0-2	10.42
5	2-4	3.51
5	4-6	0.78
6	0-2	3.23
6	2-4	0.38
6	4-6	1.45
7	0-2	0.29
7	2-4	0.46
7	4-6	0.57
8	0-2	3.23
8	2-4	3.17
8	4-6	1.77
9	0-2	0.98
9	2-4	1.94
9	4-6	0.20
10	0-2	0.48
10	2-4	0.28
10	4-6	0.66
11	0-2	1.78
11	2-4	2.37
11	4-6	1.23
12	0-2	1.51
12	2-4	1.00
12	4-6	1.38
13	0-2	0.78
13	2-4	0.60
13	4-6	0.65
14	0-1.5	4.09
14	1.5-3.5	1.62
14	3.5-5.5	0.28
15	0-1.5	0.83
15	1.5-3.5	1.35
15	3.5-5.5	1.02
16	0-1.5	0.60
16	1.5-3.5	0.32

INLAND MINING CORPORATION
Mena, Arkansas

Analyses of Samples From Rock Drill Holes

Exploration Site No. 4 on American Group of Claims

Trench No. 3

Hole No.	Sample Interval	% Manganese
16	3.5-5.5	2.14
17	0-1.5	6.03
17	1.5-3.5	1.02
17	3.5-5.5	0.91
18	0-1.5	0.89
18	1.5-3.5	3.42
18	3.5-5.5	2.82
19	0-1.5	1.45
19	1.5-3.5	1.85
19	3.5-5.5	1.77
20	0-2	0.92
20	2-4	4.35
20	4-6	10.16
21	0-1.5	1.20
21	1.5-3.5	10.03
21	3.5-5.5	3.66
22	0-1.5	5.31
22	1.5-3.5	2.71
22	3.5-5.5	2.00
23	0-1.5	3.49
23	1.5-3.5	8.16
23	3.5-5.5	0.68
24	0-1.5	3.86
24	1.5-3.5	6.31
24	3.5-5.5	5.08
25	0-1.5	5.35
25	1.5-3.5	3.65
25	3.5-5.5	4.25
26	0-1.5	7.92
26	1.5-3.5	4.05
26	3.5-5.5	1.38
27	0-1.5	3.29
27	1.5-3.5	2.08
27	3.5-5.5	4.83

INLAND MINING CORPORATION

Mena, Arkansas

Analyses of Samples From Rock Drill Holes

Exploration Site No. 5 on American Group of Claims

Trench No. 5

Hole No.	Sample Interval	% Manganese
1	0-2	2.03
1	2-3.5	2.52
1	3.5-5.5	2.89
1	5.5-7.5	1.83
2	0-2	0.32
2	2-3.5	2.30
2	3.5-5.5	1.95
3	0-2	2.92
3	2-3.5	1.76
3	3.5-5.5	1.61
4	0-2	0.64
4	2-3.5	2.03
4	3.5-5.5	2.37
4	5.5-7.5	3.69
5	0-2	1.80
5	2-3.5	3.44
5	3.5-5.5	2.88
6	0-2	4.54
6	2-3.5	3.18
6	3.5-5.5	0.23
7	0-2	1.64
7	2-3.5	1.03
7	3.5-5.5	1.26

INLAND MINING CORPORATION
Mena, Arkansas

Analyses of Samples From Rock Drill Holes

Exploration Site No. 5 on American Group of Claims

Trench No. 6

Hole No.	Sample Interval	% Manganese
1	0-2	0.71
1	2-3.5	0.92
1	3.5-5.5	1.15
2	0-2	0.51
2	2-3.5	0.54
2	3.5-5.5	0.40
3	0-2	0.68
3	2-3.5	1.82
3	3.5-5.5	0.46
4	0-2	0.62
4	2-3.5	0.29
4	3.5-5.5	0.08
5	0-2	0.18
5	2-3.5	0.12
5	3.5-5.5	0.40
6	0-2	0.29
6	2-3.5	0.11
6	3.5-5.5	0.26
7	0-2	1.31
7	2-3.5	0.77
7	3.5-5.5	0.31
8	0-2	1.72
8	2-3.5	1.05
8	3.5-5.5	6.20
8	5.5-7.5	10.54
9	0-2	3.39
9	2-3.5	3.03
9	3.5-5.5	3.17
10	0-2	1.40
10	2-3.5	1.34
10	3.5-5.5	0.97
11	0-2	2.15
11	2-3.5	2.59
11	3.5-5.5	1.08
12	0-2	4.83
12	2-3.5	3.20
12	3.5-5.5	2.72
13	0-2	4.39
13	2-3.5	2.88
13	3.5-5.5	3.45
14	0-2	2.59
14	2-3.5	3.35
14	3.5-5.5	2.00
15	0-2	3.88
15	2-3.5	2.69

INLAND MINING CORPORATION
Mena, Arkansas

Analyses of Samples From Rock Drill Holes

Exploration Site No. 5 on American Group of Claims

Trench No. 6

Hole No.	Interval	%Manganese
15	3.5-5.5	2.99
16	0-2	2.80
16	2-3.5	7.05
16	3.5-5.5	2.69
17	0-2	8.74
17	2-3.5	2.46
17	3.5-5.5	1.75
18	0-2	1.57
18	2-3.5	2.54
18	3.5-5.5	4.03
19	0-2	1.03
19	2-3.5	2.00
19	3.5-5.5	0.55
20	0-2	2.17
20	2-3.5	0.31
20	3.5-5.5	0.85
21	0-2	1.12
21	2-3.5	0.86
21	3.5-5.5	0.31
22	0-2	3.05
22	2-3.5	2.15
22	3.5-5.5	1.37
23	0-2	3.09
23	2-3.5	1.74
23	3.5-5.5	3.15
24	0-2	3.83
24	2-3.5	3.57
24	3.5-5.5	2.37

INLAND MINING CORPORATION

Mena, Arkansas

Analyses of Samples From Rock Drill Holes

Exploration Site No. 5 on American Group of Claims

Trench No. 6A

Hole No.	Sample Interval	% Manganese
1	0-2	0.06
1	2-3.5	0.08
1	3.5-5.5	1.66
2	0-2	0.56
2	2-3.5	0.18
2	3.5-5.5	0.08
3	0-2	0.23
3	2-3.5	0.30
3	3.5-5.5	2.76
3	5.5-7.5	6.04
4	0-2	0.70
4	2-3.5	1.08
4	3.5-5.5	5.12
4	5.5-7.5	7.38
5	0-2	5.92
5	2-3.5	3.92
5	3.5-5.5	5.95
5	5.5-7.5	2.73
6	0-2	5.46
6	2-3.5	2.61
6	3.5-5.5	2.24
6	5.5-7.5	7.46
7	0-2	1.41
7	2-3.5	2.35
7	3.5-5.5	4.97
7	5.5-7.5	2.69
8	0-2	1.92
8	2-3.5	4.30
8	3.5-5.5	1.00
9	0-2	0.92
9	2-3.5	0.92
9	3.5-5.5	5.23
9	5.5-7.5	1.69
10	0-2	1.26
10	2-3.5	3.40
10	3.5-5.5	1.61
10	5.5-7.5	2.95
11	0-2	2.95
11	2-3.5	0.41
11	3.5-5.5	0.52
11	5.5-7.5	1.38
12	0-2	4.49
12	2-3.5	3.38
12	3.5-5.5	1.13

INLAND MINING CORPORATION
Mena, Arkansas

Analyses of Samples From Rock Drill Holes

Exploration Site No. 5 on American Group of Claims

Trench No. 6A

Hole No.	Sample Interval	% Manganese
12	5.5-7.5	1.86
13	0-2	2.61
13	2-3.5	0.18
13	3.5-5.5	0.13
13	5.5-7.5	0.87
14	0-2	1.38
14	2-3.5	0.87
14	3.5-5.5	1.78
14	5.5-7.5	1.53
15	0-2	1.69
15	2-3.5	0.38
15	3.5-5.5	0.35
15	5.5-7.5	0.35
16	0-2	0.53
16	2-3.5	1.89
16	3.5-5.5	2.41
17	0-2	1.01
17	2-3.5	5.43
17	3.5-5.5	2.12

INLAND MINING CORPORATION
Mena, Arkansas

Analyses of Samples From Rock Drill Holes

Exploration Site No. 5 on American Group of Claims

Trench No. 7

Hole No.	Sample Interval	%Manganese
1	0-2	0.32
1	2-3.5	0.78
1	3.5-5.5	2.77
1	5.5-7.5	1.43
2	0-2	6.80
2	2-3.5	0.49
2	3.5-5.5	0.31
2	5.5-7.5	0.62
3	0-2	0.68
3	2-3.5	2.91
3	3.5-5.5	1.09
3	5.5-7.5	0.78
4	0-2	1.92
4	2-3.5	1.09
4	3.5-5.5	1.32
5	0-2	4.15
5	2-3.5	0.46
5	3.5-5.5	0.46
6	0-2	8.26
6	2-3.5	1.34
6	3.5-5.5	0.47
7	0-2	2.00
7	2-3.5	5.41
7	3.5-5.5	2.39
7	5.5-7.5	2.82
8	0-2	2.92
8	2-3.5	1.12
8	3.5-5.5	3.43
9	0-2	2.92
9	2-3.5	0.94
9	3.5-5.5	4.46
10	0-2	1.20
10	2-3.5	0.34
10	3.5-5.5	1.68
11	0-2	0.65
11	2-3.5	0.45
11	3.5-5.5	1.88
12	0-2	0.71
12	2-3.5	1.28
12	3.5-5.5	0.32
13	0-2	0.38
13	2-3.5	4.05
13	3.5-5.5	1.77

INLAND MINING CORPORATION
Mena, Arkansas

Analyses of Samples From Rock Drill Holes

Exploration Site No. 5 on American Group of Claims

Trench No. 7

Hole No.	Sample Interval	% Manganese
14	0-2	0.38
14	2-3.5	0.62
14	3.5-5.5	2.59
14	5.5-7.5	0.38
15	0-2	0.08
15	2-3.5	1.11
15	3.5-7.5	1.77
16	0-2	0.26
16	2-3.5	0.62
16	3.5-5.5	1.05
17	0-2	0.66
17	2-3.5	0.38
17	3.5-5.5	0.51
18	0-2	1.94
18	2-3.5	0.26
18	3.5-5.5	2.40
18	5.5-7.5	0.23
19	0-2	1.60
19	2-3.5	1.74
19	3.5-5.5	0.14
20	0-2	0.15
20	2-3.5	1.74
20	3.5-5.5	0.55
21	0-2	1.02
21	2-3.5	1.06
21	3.5-5.5	0.95
22	0-2	1.03
22	2-3.5	3.31
22	3.5-5.5	7.36
23	0-2	1.25
23	2-3.5	1.83
23	3.5-5.5	3.31
24	0-2	5.19
24	2-3.5	1.66
24	3.5-5.5	14.16
25	0-2	4.14
25	2-3.5	3.94
25	3.5-5.5	1.54
25	5.5-7.5	0.89
26	0-2	1.92
26	2-3.5	0.52
26	3.5-5.5	0.86
26	5.5-7.5	0.49

INLAND MINING CORPORATION
Mena, Arkansas

Analyses of Samples From Rock Drill Holes

Exploration Site No. 5 on American Group of Claims

Trench No. 8

Hole No.	Sample Interval	%Manganese
1	0-2	5.27
1	2-3.5	4.89
1	3.5-5.5	3.29
2	0-2	1.52
2	2-3.5	3.50
2	3.5-5.5	1.30
3	0-2	0.30
3	2-3.5	1.73
3	3.5-5.5	0.53
4	0-2	1.13
4	2-3.5	0.38
4	3.5-5.5	4.46
5	0-2	5.75
5	2-3.5	0.77
5	3.5-5.5	5.38
6	0-2	0.92
6	2-3.5	0.30
6	3.5-5.5	2.30
7	0-2	3.44
7	2-3.5	0.12
7	3.5-5.5	0.52
8	0-2	0.35
8	2-3.5	0.03
8	3.5-5.5	3.92
9	0-2	1.69
9	2-3.5	0.38
9	3.5-5.5	0.10
10	0-2	0.77
10	2-3.5	0.29
10	3.5-5.5	0.04
11	0-2	0.72
11	2-3.5	0.03
11	3.5-5.5	0.07
12	0-2	0.06
12	2-3.5	0.07
12	3.5-5.5	1.38
13	0-2	0.13
13	2-3.5	0.12
13	3.5-5.5	1.15
14	0-2	0.13
14	2-3.5	0.04
14	3.5-5.5	0.03

EXPLORATION UNIT COST AND PROGRESS REPORT FOR MONTH OF April, 1952

(Supply Data Below Applicable Only to Your Operations)

Item	Costs					Progress [4]				
	Wages [1] and salaries	Equipment [2]	Supplies	Other [3]	Total	Unit	Units this month	Units previously reported	Units to date	Units authorized by contract (Exhibit A)
Drifting										
Crosscutting										
Raising										
Shafts										
Winzes										
Drill holes										
Overburden						Feet	370	None	370	
Rehabilitation and preparation										
Geology and geophysics										
Trenching										
Sampling and assaying						Feet	3,029	None	3,029	
Roads and trails						Miles	167	None	167	
Test pits						Feet	11,200	None	11,200	
Other (specify)										
Totals							15,014		15,014	

[1] Prorate supervisory, engineering, and office salaries in proportion to man-shifts of direct labor.
[2] Prorate charges for equipment that is not exclusively for one type of job (such as compressors) against authorized units of work in each category.
[3] Where entries in the "Other" column (above) are more than 25 percent of the total expenditures, a breakdown of this item should be made.
[4] Specify whether feet, cubic feet, acres, miles, etc.

16—64068-3 U. S. GOVERNMENT PRINTING OFFICE

MONTHLY SUMMARY COST STATEMENT—Continued

Item	Monthly Total	Totals Previously Reported	Totals to Date	For Government Use Only: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(d) Fixtures						
4. Labor[3]	2,514.38	-	2,514.38			2,514.38
5. Supervision						
6. Supplies						
(a) Timber						
(b) Explosives						
(c) Repair Parts						
(d) Other See Schedule	1,482.82		1,482.82			1,482.80
7. Power						
8. Transportation						
9. Insurance						
(a) Fire						
(b) Public Liability	44.54 WPW		44.54			44.54
(c) Workmen's Compensation	112.70 WPW		112.70			112.70
(d) Payroll Taxes	~~113.15~~ 104.15 WPW		104.15			104.15
10. Contract Work			-			
11. Other (specify)						
12. Consulting Geologist-R. B. McElwaine	1,710.00		1,710.00			1,710.00
13. Miscellaneous Repairs & Maintenance	231.57		231.57			231.57
Total	~~7,743.04~~ 7467.15 WPW		7467.15			7,467.13
Deletions						
Adjusted totals	~~7,743.04~~ 7467.15 WPW		7467.15			7,467.13
Totals previously reported						None
Totals to date	~~7,743.04~~ 7467.15 WPW		7467.15			7,467.13

[1] Enter amount paid during month toward total purchase price.
[2] Payments for rental of equipment or prorated depreciation on equipment owned by contractor.
[3] Submit copy of the Social Security form filed under the Old Age Insurance system showing complete wage and salary data or furnish copy of payroll sheet giving same data.

NOTE.—Indicate that portion of supervisory, office, and engineering salaries that is chargeable to this project.

FOR GOVERNMENT USE ONLY

Checked by W. P. Wiers
Entered by
Approved by David Gallagher
Amount approved for payment $5,600.35
Remarks Vo. No. DMR-6-43

16—64068-3

MONTHLY SUMMARY COST STATEMENT

List as Shown on Exhibits Attached to Contract

Item	Monthly Total	Totals Previously Reported	Totals to Date	For Government Use Only: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
1. Fixtures and Improvements:						
(a) Facilities						
(b) Buildings						
(c) Fixtures						
2. Operating Equipment:						
(a) Purchased[1]						
1-Model 38 Thor Jack-Hammer-Wet Type 7/8" Chuck. Ser.# 98334.	350.00		350.00			350.00
(b) Rented[2]						
1-250' Jaeger Air Compressor W/IHC Diesel Engine, Ser.# C-12296, Motor UDF-34262	233.33 WPW ~~500.00~~		233.33			233.33
(c) Furnished by operator						
See Schedule Attached	683.66		683.66			683.66
3. Rehabilitation and Repairs:						
(a) Facilities						
(b) Buildings						
(c) Installations						

16—64068-3

MF-104
(August 1951)

Budget Bureau No. 42-R1036.2.
Approval Expires 6-30-52.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Contract No. Idm-E [illegible]

Name of Operator [illegible]
Docket No. DMA [illegible]
Total Contract Amount $ [illegible]
Government Participation: 75 % Amount, $ [illegible]
Distribution of Expenditures for Month of [illegible]

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 30 1952

STRATEGIC AND CRITICAL MINERAL EXPLORATION PROGRAM
OPERATOR'S MONTHLY PROGRESS REPORT

(Please copy)

Operators are to submit monthly reports to the designated field representative of the Defense Minerals Administration. Reports are to be submitted in quadruplicate prior to the 15th day of the month following the reporting period.

Narrative.—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered is to be furnished.

Maps.—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.

Cost Accounts.—All applicable parts of this form are to be filled in. This report will form the basis for payments of the Government's participating share of expenses. Audits of accounts may be made from time to time.

CERTIFICATION

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.

[illegible]
(Name of Company)

By [illegible]
(Signature of Authorized Official)

[illegible]
(Date)

[illegible]
(Title)

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.

16—64068-3

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
REGION VI

OFFICE OF
REGIONAL DIRECTOR

ROOM 814 BARFIELD BUILDING
AMARILLO, TEXAS

June 25, 1952

Mr. David Gallagher
Executive Officer
D M E A Field Team, Region VI
Joplin, Missouri

Re: Docket No. DMEA-2299
Contract Idm-E280
Inland Mining Corp.

Dear Mr. Gallagher:

We have indicated the approved amounts on the attached copy of the Inland Mining Corporation Monthly Progress Report for the month of April, 1952, as requested in your letter of June 16, 1952.

We are transmitting two copies of the report to the D M E A Office in Washington, as requested, using a copy of this letter as a transmittal.

None of the reports are completely supported by invoices except the copy I am keeping for my file. You might have some of the invoices and attachments in your office. I believe you should have a complete file and the Washington Office should have a complete file. If future reports are not supported in triplicate, it would be my suggestion that they be requested.

Very truly yours,

Ray C. Jonas, Chief
Budget and Finance Branch
Region VI

Enclosure

Copy to: J. L. Chambers
D. M. E. A. Office
Washington 25, D. C.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 30 1952

Dallas Printing Co.

INVOICE

BROWNING-FERRIS MACHINERY CO.

THE LARGEST CONTRACTORS
EQUIPMENT COMPANY IN THE SOUTH

305 EXPOSITION AVE.
Dallas 1, Texas

Date 4-17-52

REFER TO INVOICE D A- 14

ORDER ENTERED

YOUR ORDER NO.

OUR ORDER NO.

CHARGE TO Inland Mining Corp.
1408 M. & W. Tower Bldg.
AT Dallas, Texas

SHIPPED TO Do
% Cecil Chenoweth
AT Mena, Ark.

TERMS: Net cash on receipt of invoice

F. O. B.

SHIPPED VIA

QUANTITY	PARTS NO.	DESCRIPTION	UNIT PRICE	AMOUNT
		Rent from 4-17-52 to 5-17-52 on the following equipment:		$500.00
1-		250' Jaeger Air Compressor with IHC Diesel Engine Serial #C-12296, Motor #UDF-34262		

V-4-9
RENTAL
Certified True Copy
Cecil B. Chenoweth

INLAND MINING CORPORATION
Dallas, Texas

Item 2(c) - Operating Equipment Furnished by Operator
Month of April, 1952

Item	Description	Value	Depreciation Allowable Per Month
1	International "TD-24" Crawler-type tractor with bulldozer attachment	$24,000.00	$400.00
1	250 cu.ft. per minute Diesel-powered "Jaeger" portable air compressor	6,700.00	111.67
1	"Chicago-Pneumatic" Wagon drill, complete	2,600.00	43.33
2	Jack Hammers, complete	720.00	12.00
1	Jeep pick-up truck, four wheel drive with front-mounted winch	2,000.00	33.33
1	Jeep Station Wagon, four-wheel drive	2,000.00	33.33
1	Chevrolet Truck, 1950, one-ton capacity flat-bed	1,000.00	16.67
	Surveying, drafting and office equipment, including transit, calculator, typewriter, etc.	2,000.00	33.33
	Totals	$41,020.00	$683.66

Certified True Transcript

INLAND MINING CORPORATION

BY Earl B. Ehrenworth

INLAND MINING CORPORATION
DALLAS 2, TEXAS

CORRECTED STATEMENT FOR INSURANCE AND TAXES - MONTH OF APRIL, 1952
(ITEM 9 (B), (C) & (D) OF APRIL BILLING, FORM #MF-104, CONTRACT #IDM-E 280)

INSURANCE AND TAXES:

(FIELD PAYROLL OF $2,139.38; CLERICAL PAYROLL OF $175.00)

INSURANCE:	RATES		TAXES AND INSURANCE		
	FIELD	CLERICAL	FIELD	CLERICAL	TOTAL
WORKMENS COMPENSATION INSURANCE					
STATE OF ARKANSAS	5.11	.08	$109.32	$ .14	$109.46
OCCUPATIONAL DISEASE OR FULL					
MEDICAL	.015	.015	3.21	.03	3.24
GENERAL LIABILITY:					
BODILY INJURY	1.143	.007	24.45	.01	24.46
PROPERTY DAMAGE	.938	.006	20.07	.01	20.08
TAXES:					
FOAB @ 1½%			32.09	2.62	34.71
STATE UNEMPLOYMENT @ 2.7%			57.76	4.73	62.49
FEDERAL UNEMPLOYMENT @ .3%			6.42	.53	6.95
TOTALS, INSURANCE AND TAXES			$253.32	$8.07	$261.39

AS BILLED IN ORIGINAL STATEMENT	$253.32	$17.29	$270.61
CREDIT DUE	--	$ 9.22	$ 9.22

CERTIFIED TRUE TRANSCRIPT

INLAND MINING CORPORATION

BY Cecil B. Chenoweth

INLAND MINING CORPORATION VOUCHER NO. 4-31

STATEMENT FROM THE AUTOMOTIVE, INC., MENA, ARKANSAS, COVERING INVOICES, AS FOLLOWS:

INVOICE NO.	DATE	DESCRIPTION		
227617	4/10/52	1 - 815 THER AIR HOSE	$ 5.23	
		1 - 352 TRU PLATE AIR CHUCK	1.70	
			$ 6.93	
		TAX	.14	$ 7.07
227677	4/12/52	2 - 1GP-3028FS AUTO LITE	$ 1.72	
		1 - FR-12-13 D & D	1.52	
		1 - 31M POLSON	2.65	
			$ 5.89	
		TAX	.12	6.01
227671	4/12/52	1 - LC 208 SMITH	$24.15	
		1 - AW 1 "	20.00	
		1 - LW 701 "	5.30	
		1 - LW 703 "	5.30	
		1 - RL 731 "	12.20	
			$66.95	
		TAX	1.34	68.29
227894	4/22/52	2 - 114-5214 BORG WARNER	$ 7.82	
		TAX	.16	7.98
				$89.35

CERTIFIED TRUE COPY

INLAND MINING CORPORATION

BY Cecil B. Shenowith

INLAND MINING CORPORATION VOUCHER NO. 4-20

STATEMENT FROM WATKINS HARDWARE COMPANY, MENA, ARKANSAS, COVERING PURCHASES AS FOLLOWS:

TICKET NO.	DATE	DESCRIPTION			
215370	4/10/52	2 - #2 TUBS @ 2.00		$ 4.00	
			TAX	.08	$ 4.08
215013	4/10/52	10 - #2 RR SHT HDLE SHOVELS @ 2.25		$22.50	
		2 - RR PICKS @ 2.95		5.90	
		2 - " " HDLES @ .85		1.70	
		1 - SHARP SHOOTER		3.75	
		500' - DYN. FUSE @ .02½		12.50	
				$46.35	
			TAX	.93	47.28
215017	4/10/52	300'-5/16 CABLE @ .16		$48.00	
		20'- " "		3.20	
		20'- " "		3.20	
		6 - CABLE HOOKS @ .25		1.50	
		8 - " CLAMPS @ .15		1.20	
		1 - PR HY DUTY WIRE STRETCHERS		5.10	
				$62.20	
			TAX	1.25	63.45
215028	4/11/52	1 - AX		$ 3.95	
			TAX	.08	4.03
216056	4/14/52	1 - RR PICK		$ 2.98	
		1 - " " HDLE		.85	
		1 - " " "		.95	
				$ 4.78	
			TAX	.10	4.88
215488	4/17/52	1 - #A TUB		$ 1.39	
		2 - LBS NAILS @ .10		.20	
				$ 1.59	
			TAX	.03	1.62
215491	4/18/52	PAPER BAGS		$ .17	
		5 - MARKING PENCILS @ .15		.75	
		4 - ROLLS STAGING @ .15		.60	
				$ 1.52	
			TAX	.03	1.55
215512	4/19/52	1 - 6 FT TAPE		$ 1.25	
		1 - 8 FT "		1.35	
				$ 2.60	
			TAX	.05	2.65
215536	4/21/52	50 LBS 7/8" ROPE @ .50		$25.00	
			TAX	.50	25.50
215561	4/22/52	50 - 10# NAIL BAGS		$ .60	
		100 - 5# " "		.75	
				$ 1.35	
			TAX	.03	1.38
215562	4/22/52	100 - 3# NAIL BAGS		$ .50	
		100 -20# " "		1.50	
				$ 2.00	
			TAX	.04	2.04
216225	4/24/52	1 - 6" CALIPER RULE		$ 1.25	
			TAX	.03	1.28
216232	4/24/52	6 - NVB PICK HANDLES @ .95		$ 5.70	
			TAX	.12	5.82
216236	4/25/52	2 - PICK HANDLES @ .95		$ 1.90	
			TAX	.04	1.94

INLAND MINING CORPORATION

VOUCHER NO. 4-20

STATEMENT FROM WATKINS HARDWARE COMPANY - CONTINUED

TICKET NO.	DATE	DESCRIPTION			
216272	4/26/52	1 - 3" G. S. BRUSH		$ 6.50	
		LESS: BRUSH RETURN		2.10	
				$ 4.40	
			TAX	.09	$ 4.49
216268	4/26/52	1 - BRUSH		$ .98	
		2 - RAZOR BLADE SCRAPERS		.50	
				$ 1.48	
			TAX	.03	1.51
216267	4/26/52	1 - PAINT BRUSH		$ 2.75	
		1 - " "		2.50	
				$ 5.25	
			TAX	.11	5.36
217628	4/28/52	1 - 15 x 1¼ BLACK RECHECK		$ .46	
		1 - 1¼ x 3 NIPPLE		.22	
		1 - 1" COUPLING		.17	
				$ .85	
			TAX	.02	.87
217250	4/28/52	1 - 2" No. 1 STEAM VALVE		$11.50	
		1 - 2" BY 3 NIPPLE		.39	
		GASKET MATES		.45	
				$12.34	
			TAX	.25	12.59
217251	4/28/52	1 - #A TUB		$ 1.39	
			TAX	.03	1.42
217256	4/28/52	1 GAL. LINSEED OIL		$ 3.50	
			TAX	.07	3.57
					$197.33

CERTIFIED TRUE COPY

INLAND MINING CORPORATION

BY Earl B. Schnoutz

MONTHLY PROGRESS REPORT
For Month Ending April 30, 1952

Inland Mining Corporation
515 DeQueen Street
Mena, Arkansas

To: Defense Minerals Exploration Administration
Regional Office
Joplin, Missouri
Docket No. DMEA-2299. Contract No. Idm-E280

A. DATA SECTION

Location: Polk County, Arkansas

1.) The following table itemizes the work done to date.

Bulldozer Trail Ft.	Bulldozer Trench Ft.	Feet of Hand Trenching
11,250	2,535	494'

Jackhammer Test Holes	Feet of J.H. Test Holes	Drill Hole samples
63	374	187

2.) Maps of exploration sites 4 and 5 on claims 28 and 29 respectively (American Group of claims) and of exploration site 1 on the Sugartree Group of claims are attached to this report.

B. DISCUSSION SECTION

Actual field work was started on April 1, 1952. Rain has hampered the work during the month to the extent that about one week's time was lost.

Bulldozer trenching was completed on exploration sites 4 and 5 on claims 28 and 29 respectively, of the American

Group of claims. Bulldozer work was also completed on exploration site No. 1 on the Sugartree Group of claims.

The initial hand trenching on above mentioned sites 4 and 5 was about 75 percent completed as of the end of the month. After a thorough study of the conditions found and of the problems involved in trying to obtain accurate, representative samples of the ore bearing material, the following procedure was adopted: 1. The ore bearing horizon lies upon the slope of a high ridge and the strike is more or less paralled to the ridge. Bulldozer trenches down the slope, across the strike of the beds, were utilized to strip off the overburden and remove some of the bedrock in place. 2. Hand trenching, including drilling and blasting in some areas, was employed to uncover the face of the ore horizon and prepare it for sampling. 3. Pneumatic rock drills are used to drill holes at three foot intervals for the entire length of each trench. 4. The drill cuttings are caught at two foot intervals in each hole and saved for sample purposes. 5. Each sample is weighed, quartered, and recombined so as to be sent to the laboratory for initial analysis of manganese only with instructions to the laboratory to save the pulps. The split from each sample interval is to be placed in temporary storage for possible future reference.

It is believed that the above method of sampling will give more accurate and representative results than either trying to do channel sampling in the hard novaculite rock or blasting trenches and splitting large bulk samples which would have to be crushed in order to obtain proper samples. The close spaced drilling with two foot sample intervals will give more accurate information as to the ore at regular intervals below the ground surface. Drilling the holes at regular intervals will provide more representative samples and prevent any unintentional salting that might occur in gathering bulk samples by means of hand shoveling. This method will also be more accurate than channel sampling due to the extreme difficulty of cutting an even channel out of the hard, flinty, and highly fractured novaculite.

Most of the initial drill holes are being drilled to depths of six feet with some of them going to eight feet. When the analyses are available for study it may be advisable to extend the exploration deeper in some areas.

At the end of the month the initial drilling in trench No. 2, totaling 29 holes, was complete (See map and cross section). Fifteen holes had been drilled in trench No. 1-A and 19 holes in trench No. 3.

On the Sugartree exploration site the bulldozer work revealed that the manganese deposition consisted almost entirely of residual deposition on rock faces at or near the ground surface. The site has no merit and no other work is planned for that area.

The consulting geologist was on the job 19 days during the month of April. Part of the time was spent on organizing and laying out the exploration work and observing the progress of such work and making recommendations thereon. About 65 percent of his time was spent in field work consisting of geological reconnaissance on other holdings of the Corporation and public domain in the area. Considerable area was eliminated as being undesirable and some areas were selected for future exploration work. The undergrowth is very thick, and snakes are numerous. These conditions have slowed down the rate of progress on the reconnaissance work and have made such work considerably more difficult. The resident geologist has assisted the consulting geologist in the field work.

R. B. McElwaine

R. B. McElwaine
Consultant for Inland
Mining Corporation.

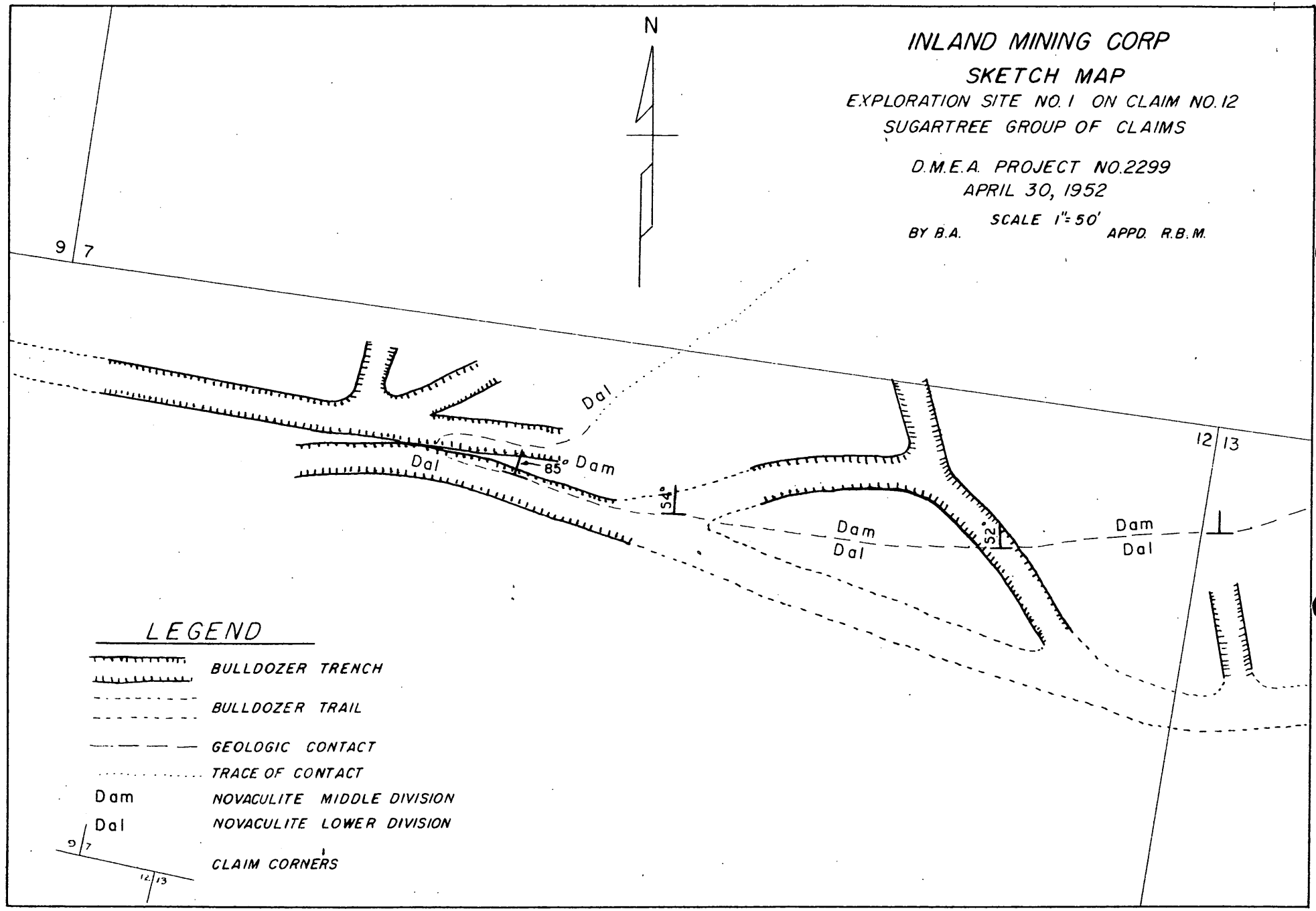

INLAND MINING CORP
SKETCH MAP
EXPLORATION SITE NO. 1 ON CLAIM NO. 12
SUGARTREE GROUP OF CLAIMS
D.M.E.A. PROJECT NO. 2299
APRIL 30, 1952
SCALE 1" = 50'
BY B.A.
APPD. R.B.M.
N
9
7
12
13
Dal
Dal
85°
Dam
54°
Dam
Dal
52°
Dam
Dal
LEGEND
BULLDOZER TRENCH
BULLDOZER TRAIL
GEOLOGIC CONTACT
TRACE OF CONTACT
Dam
NOVACULITE MIDDLE DIVISION
Dal
NOVACULITE LOWER DIVISION
CLAIM CORNERS

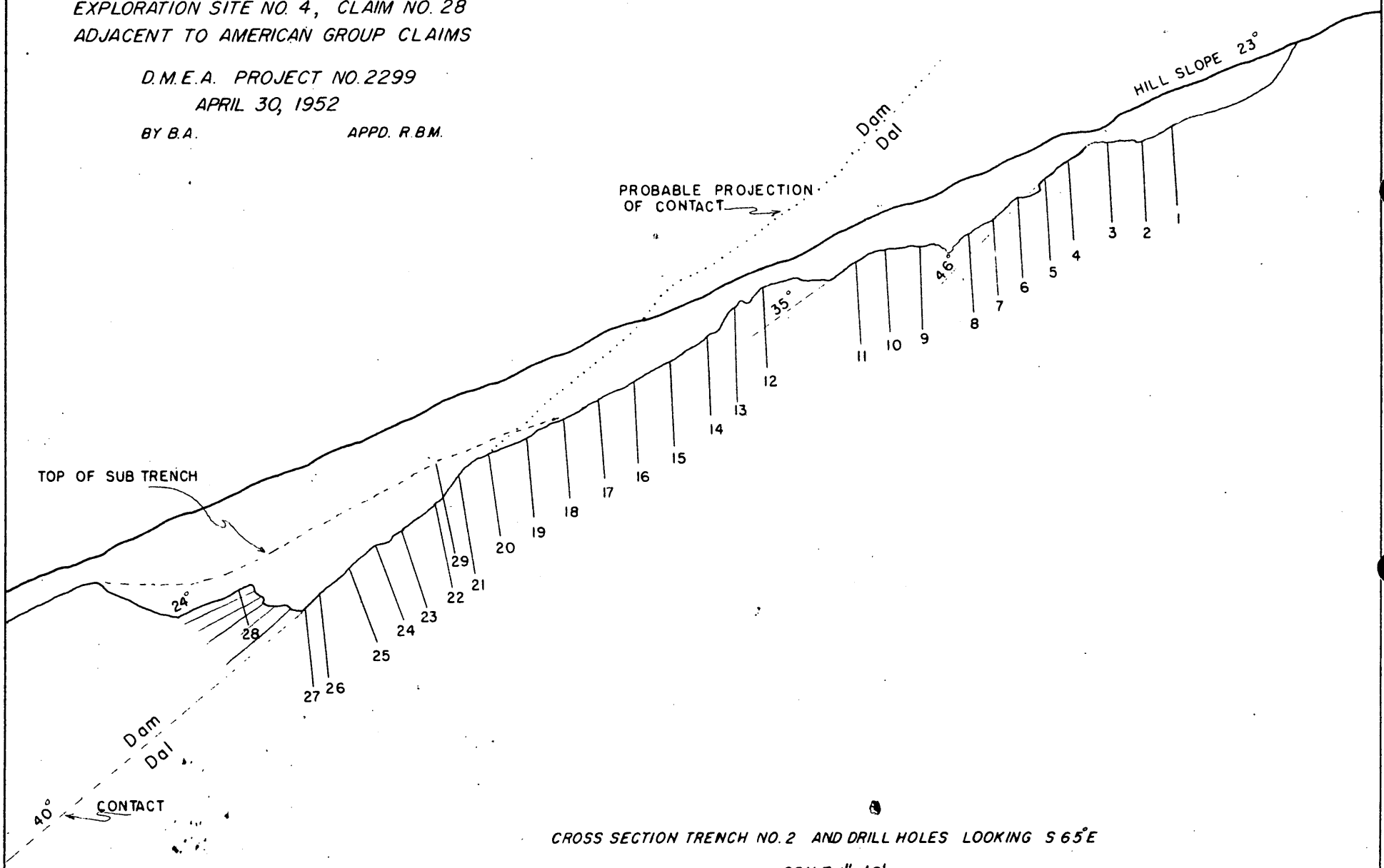
PLATE I A

INLAND MINING CORP.

EXPLORATION SITE NO. 4, CLAIM NO. 28
ADJACENT TO AMERICAN GROUP CLAIMS

D.M.E.A. PROJECT NO. 2299
APRIL 30, 1952

BY B.A. APPD. R.B.M.



CROSS SECTION TRENCH NO. 2 AND DRILL HOLES LOOKING S 65°E

SCALE 1" = 10'

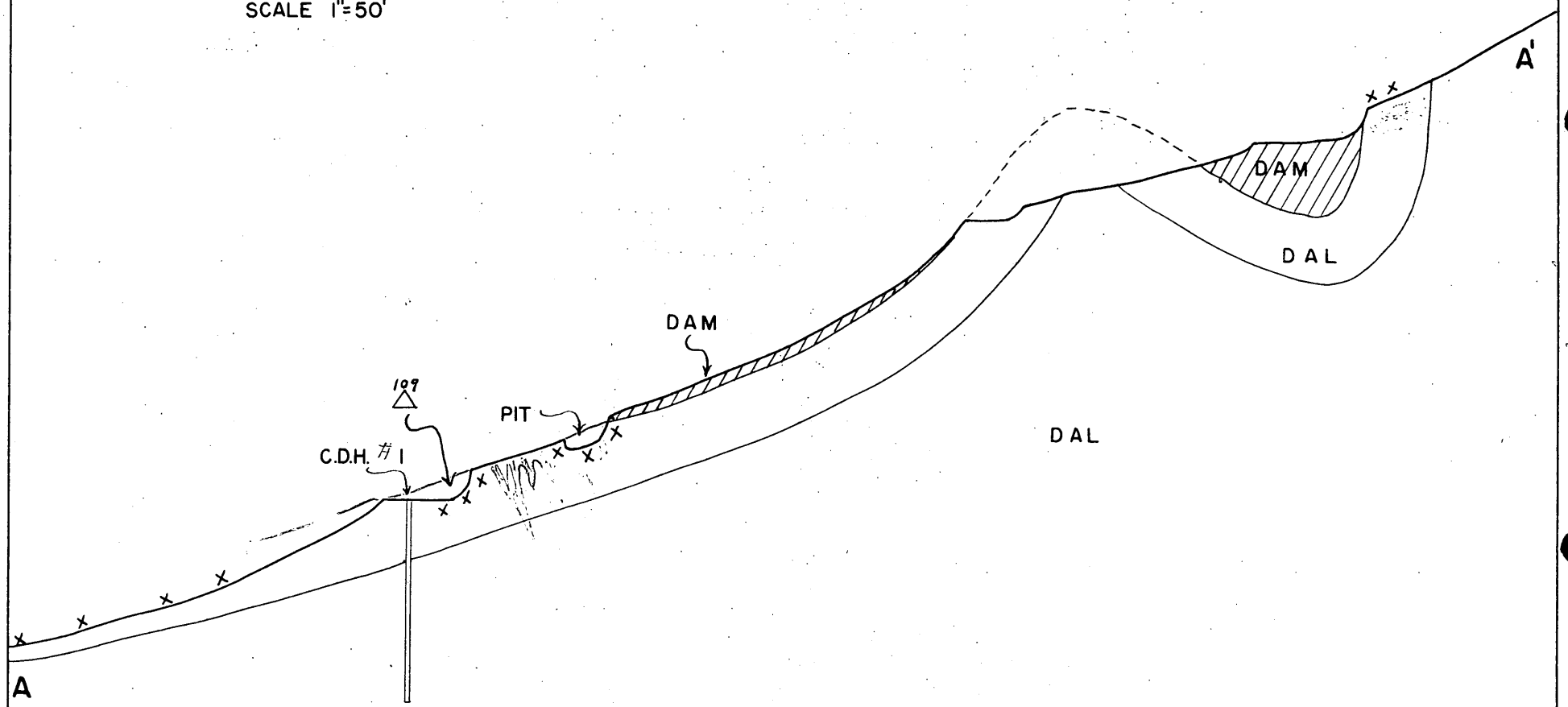
CROSS SECTION A A'

GEOLOGIC MAP NO.101

INLAND MINING CORPORATION

POLK COUNTY, ARK.

SCALE 1"=50'



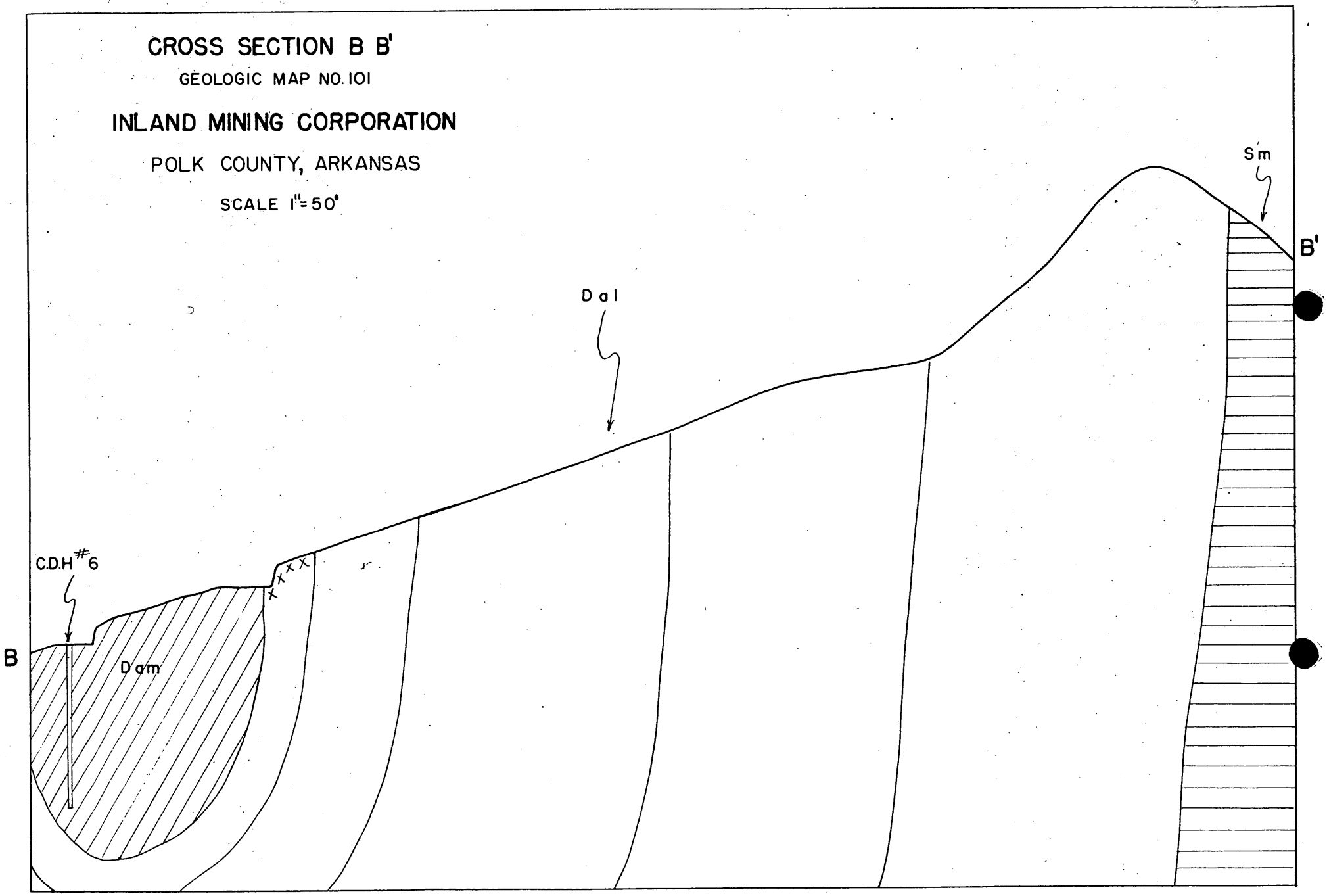
CROSS SECTION B B'

GEOLOGIC MAP NO. 101

INLAND MINING CORPORATION

POLK COUNTY, ARKANSAS

SCALE 1" = 50'



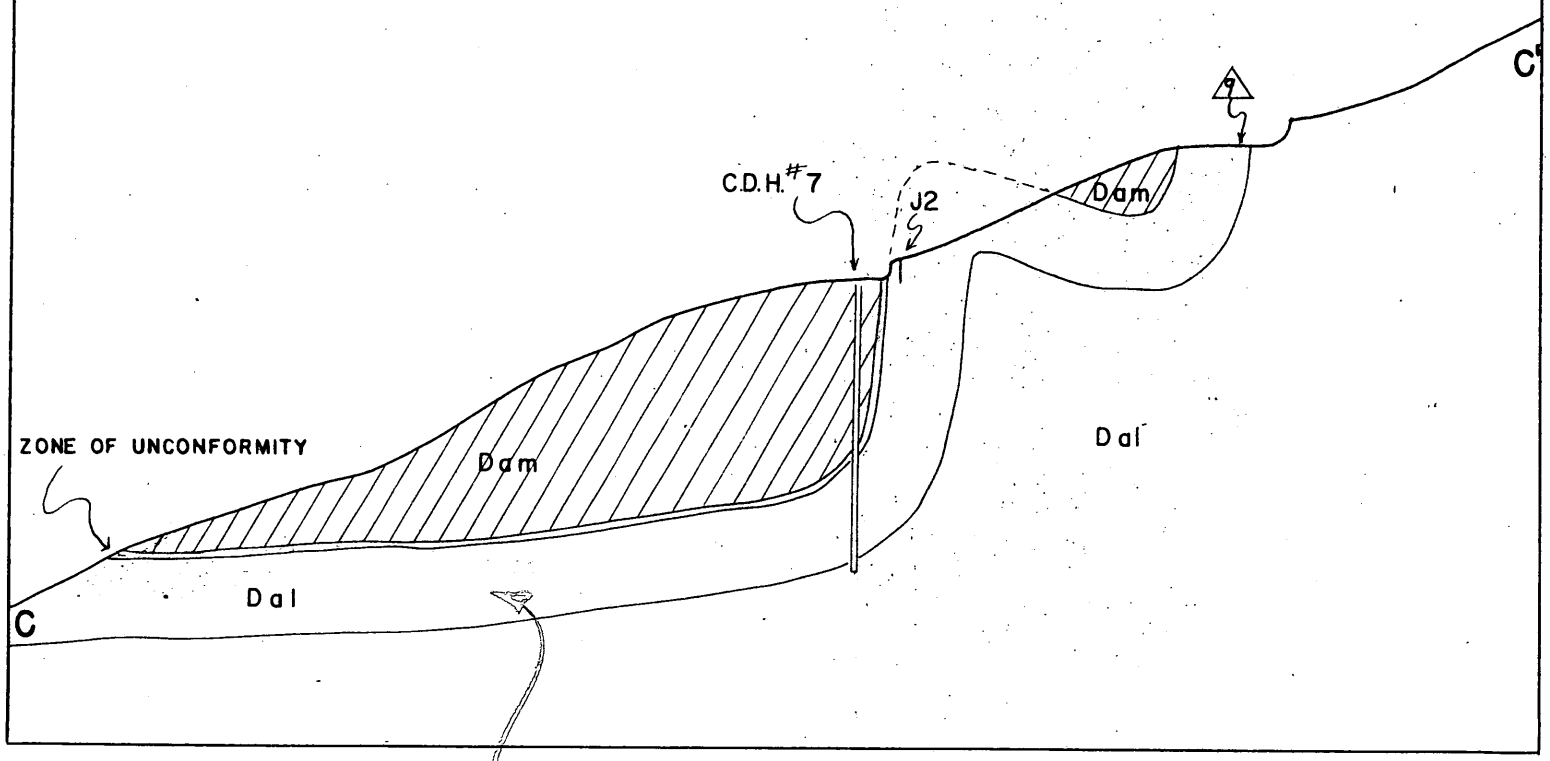
CROSS SECTION C C'

GEOLOGIC MAP NO. 101

INLAND MINING CORPORATION

POLK COUNTY, ARKANSAS

SCALE 1" = 50'



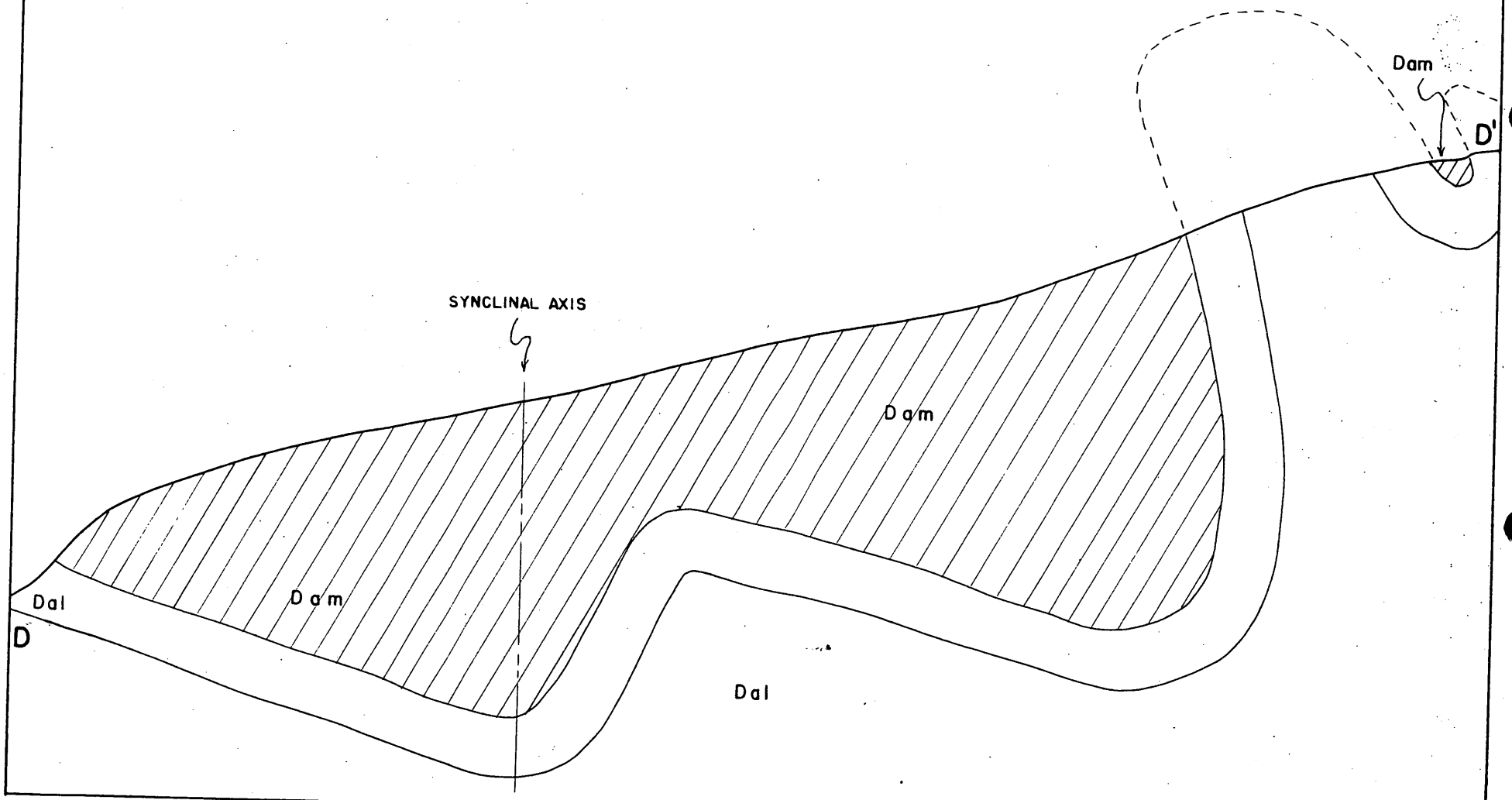
CROSS SECTION D D'

GEOLOGIC MAP NO. 101

INLAND MINING CORPORATION

POLK COUNTY, ARKANSAS

SCALE 1" = 50'

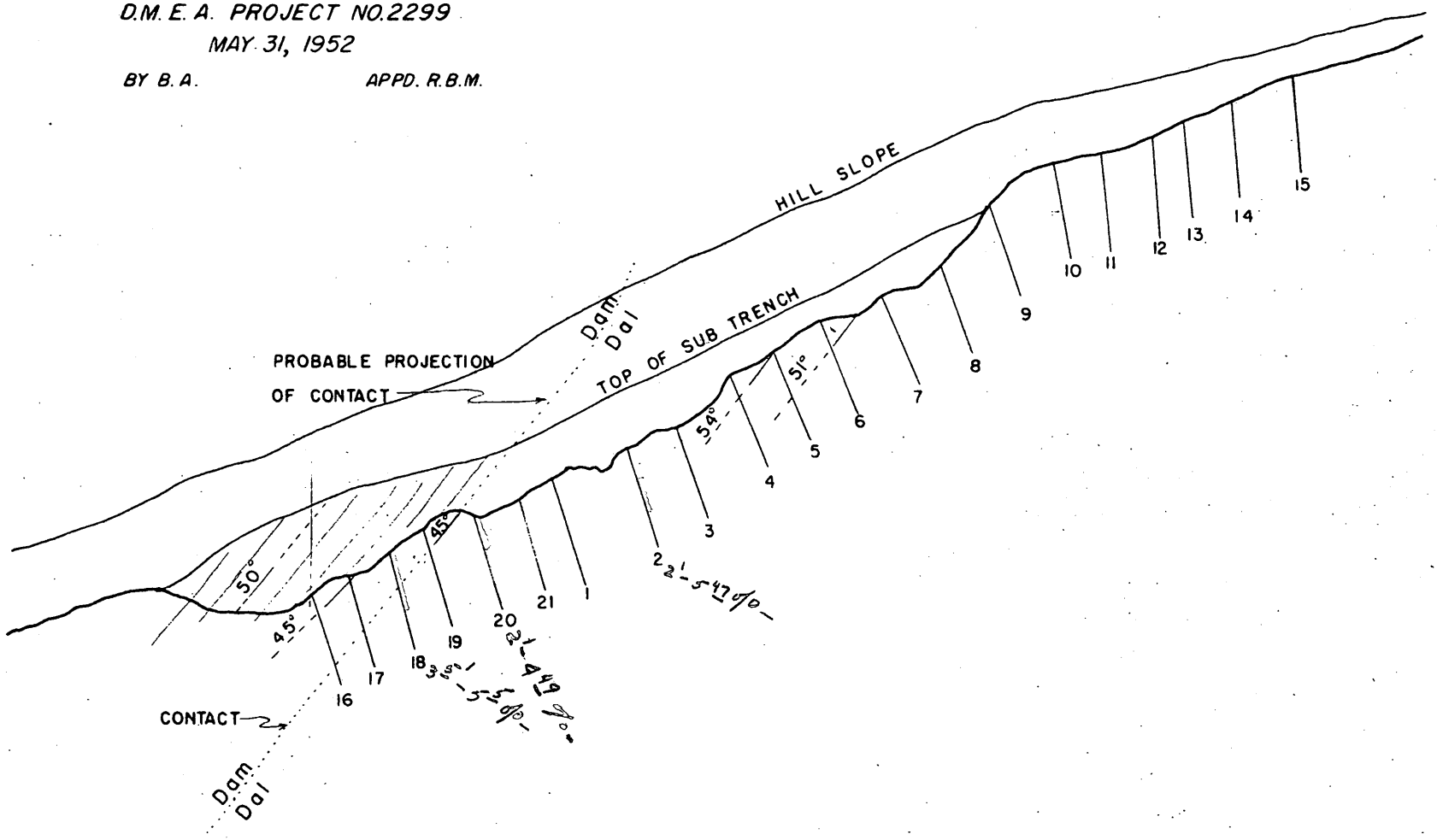


INLAND MINING CORP

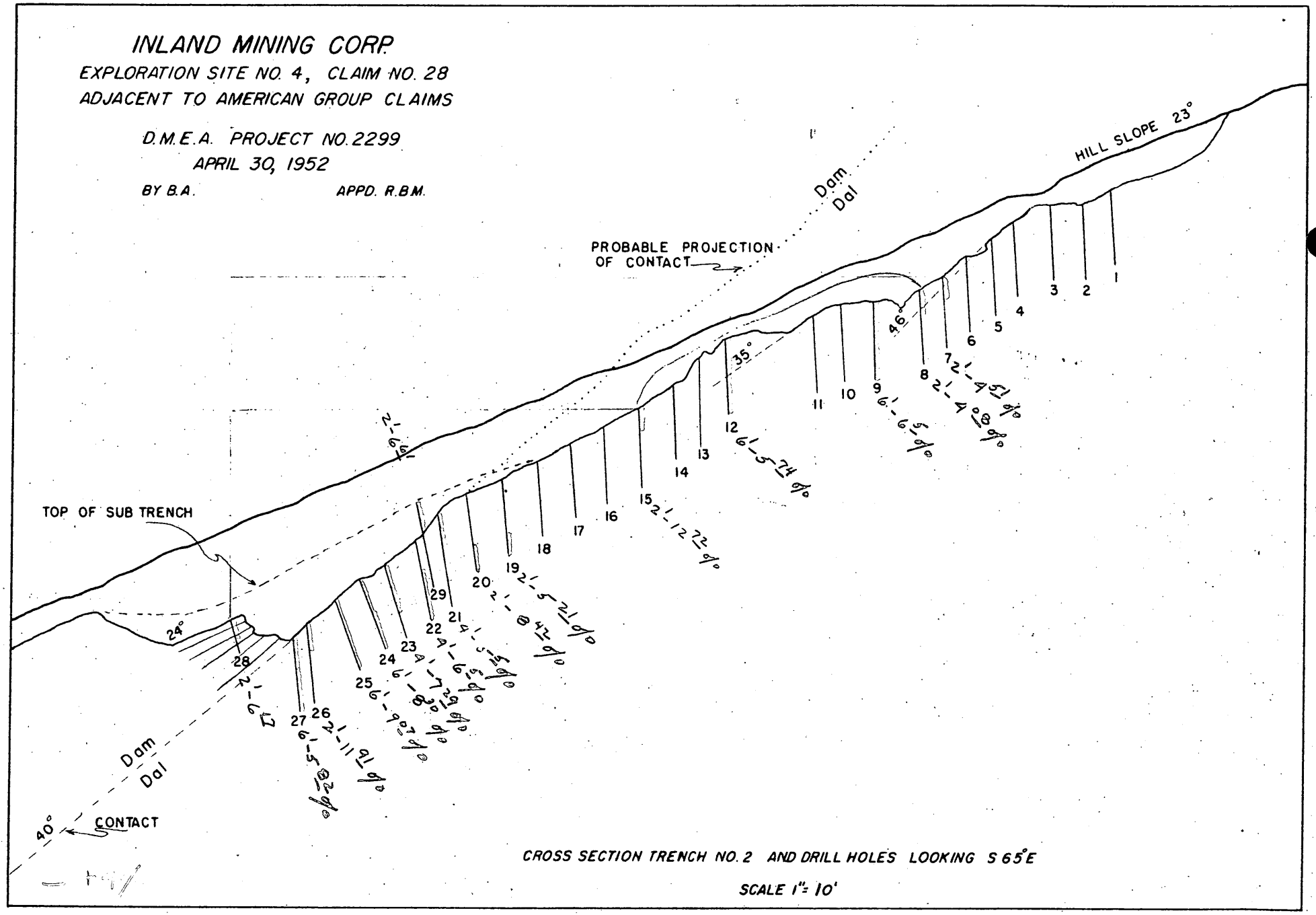
EXPLORATION SITE NO. 4 CLAIM NO. 28
AMERICAN GROUP OF CLAIMS

D.M.E.A. PROJECT NO. 2299
MAY 31, 1952

BY B.A. APPD. R.B.M.



CROSS SECTION OF TRENCH NO. 1A AND DRILL HOLES LOOKING S 75 E
SCALE 1" = 10'

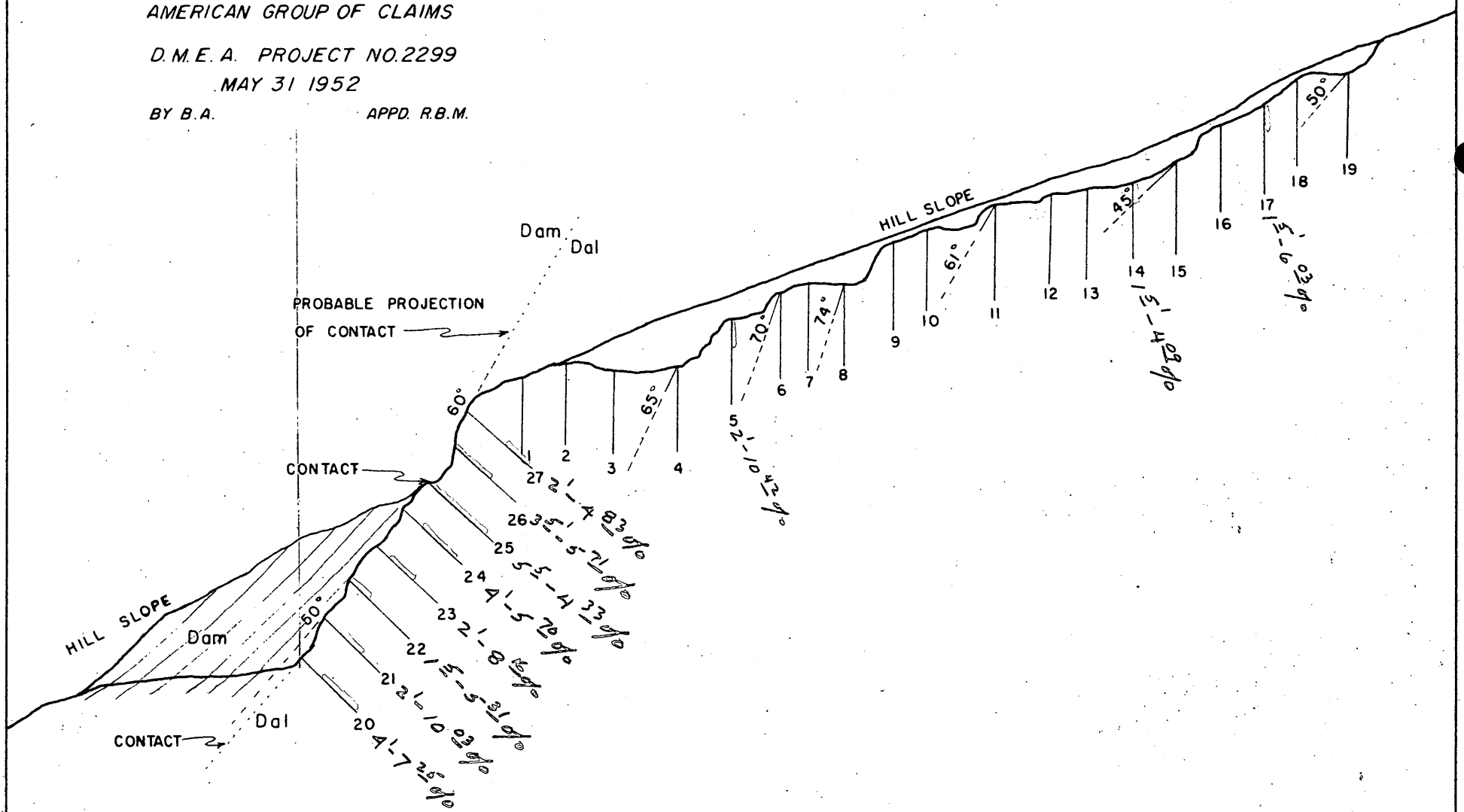

INLAND MINING CORP.
EXPLORATION SITE NO. 4, CLAIM NO. 28
ADJACENT TO AMERICAN GROUP CLAIMS
D.M.E.A. PROJECT NO. 2299
APRIL 30, 1952
BY B.A.
APPD. R.B.M.
HILL SLOPE 23°
Dam Dal
PROBABLE PROJECTION OF CONTACT
TOP OF SUB TRENCH
CONTACT
Dam Dal
40°
35°
46°
24°
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
CROSS SECTION TRENCH NO. 2 AND DRILL HOLES LOOKING S 65°E
SCALE 1" = 10'

INLAND MINING CORP.

EXPLORATION SITE NO. 4, CLAIM NO. 28
AMERICAN GROUP OF CLAIMS

D.M.E.A. PROJECT NO. 2299
MAY 31 1952

BY B.A. APPD. R.B.M.

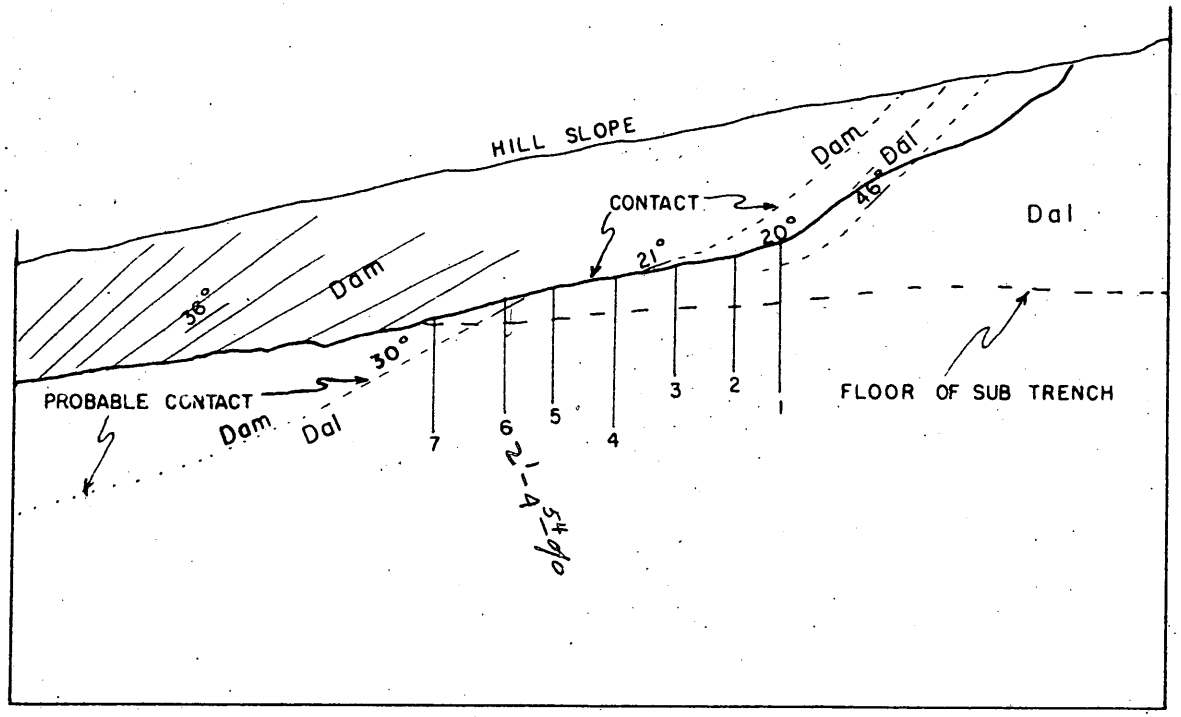


CROSS SECTION TRENCH NO. 3 AND DRILL HOLES LOOKING S 87E
SCALE 1" = 10'

INLAND MINING CORP.

EXPLORATION SITE NO. 5 CLAIM NO. 29
AMERICAN GROUP OF CLAIMS

D.M.E.A. PROJECT NO. 2299
MAY 31, 1952
BY B.A. APPD. R.B.M.



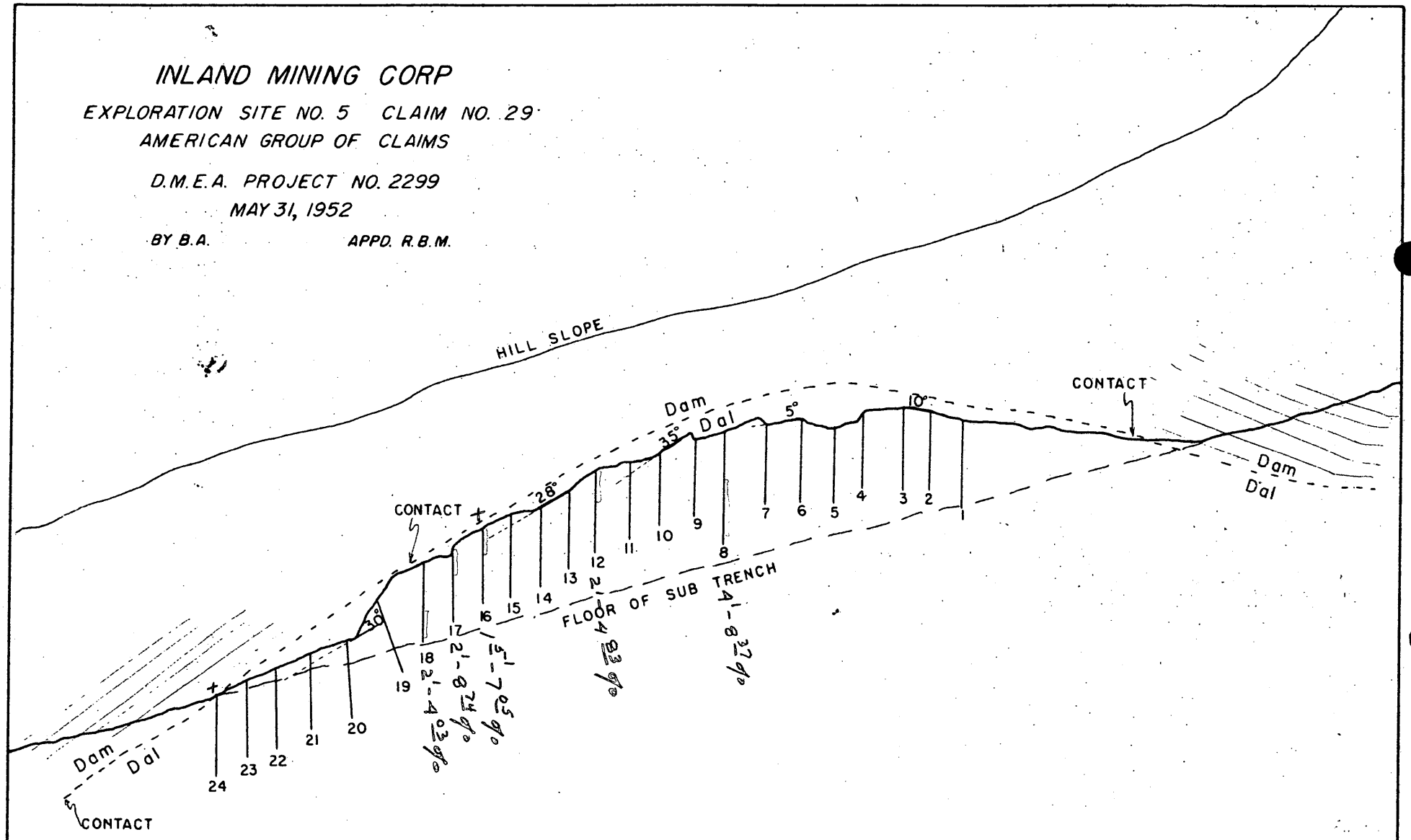
CROSS SECTION OF TRENCH NO. 5 AND DRILL HOLES LOOKING N 49° E
SCALE 1" = 10'

INLAND MINING CORP

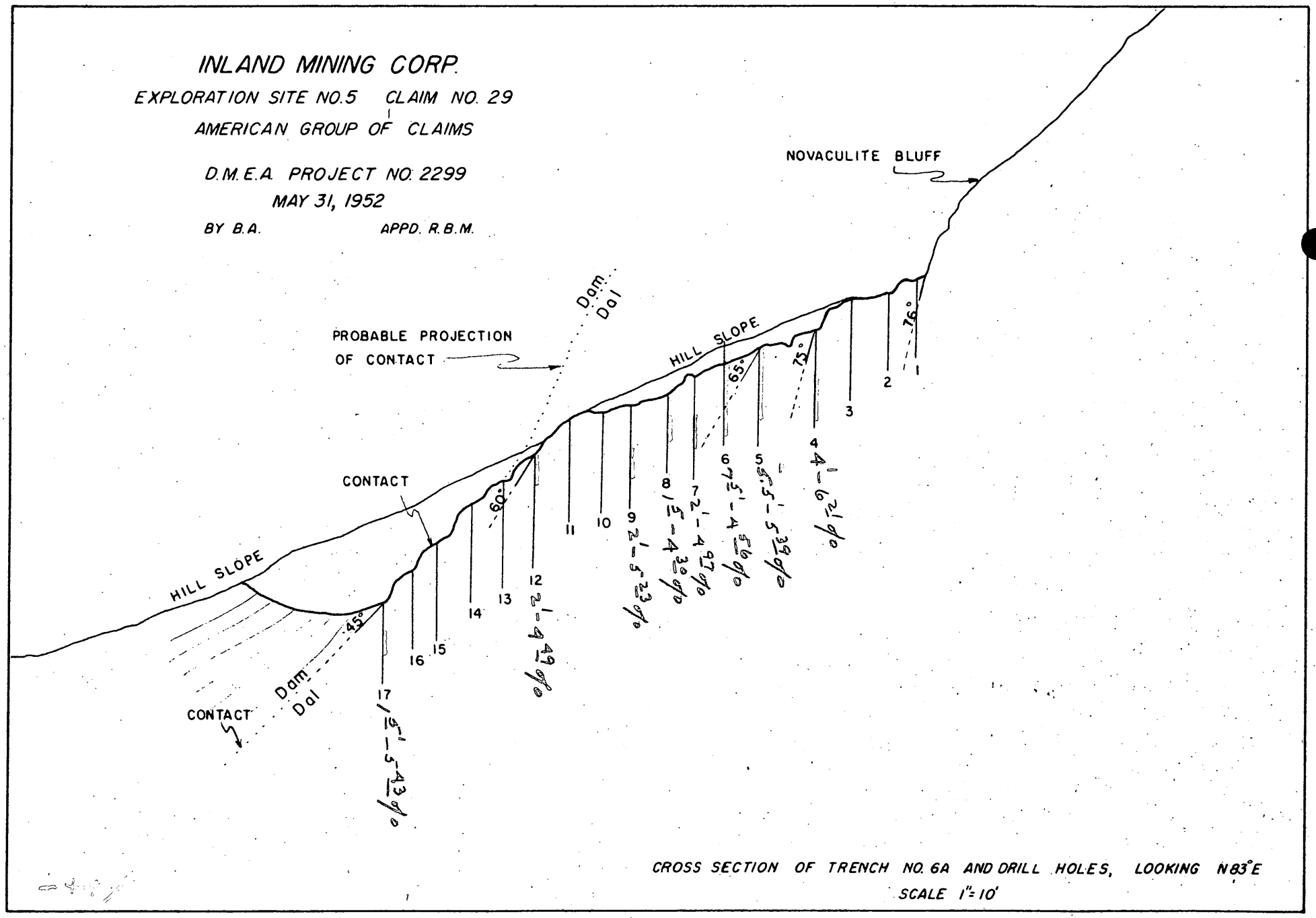
EXPLORATION SITE NO. 5 CLAIM NO. 29
AMERICAN GROUP OF CLAIMS

D.M.E.A. PROJECT NO. 2299
MAY 31, 1952

BY B.A. APPD. R.B.M.



CROSS SECTION OF TRENCH NO. 6 AND DRILL HOLES, LOOKING S 80°E
SCALE 1" = 10'


INLAND MINING CORP.
EXPLORATION SITE NO.5 CLAIM NO. 29
AMERICAN GROUP OF CLAIMS
D.M.E.A. PROJECT NO. 2299
MAY 31, 1952
BY B.A. APPD. R.B.M.
NOVACULITE BLUFF
PROBABLE PROJECTION OF CONTACT
Dam Dal
HILL SLOPE
CONTACT
HILL SLOPE
CONTACT
Dam Dal
76°
75°
65°
60°
45°
1
2
3
4
4'-6" 21 g/o
5
5'-5" - 5 39 g/o
6
7'-5" - 4 56 g/o
7
2'-4" 47 g/o
8
1'-5" - 4 30 g/o
9
2'-5" 23 g/o
10
11
12
2'-4" 49 g/o
13
14
15
16
17
1'-5" - 5 43 g/o
CROSS SECTION OF TRENCH NO. 6A AND DRILL HOLES, LOOKING N83°E
SCALE 1"=10'

INLAND MINING CORP.

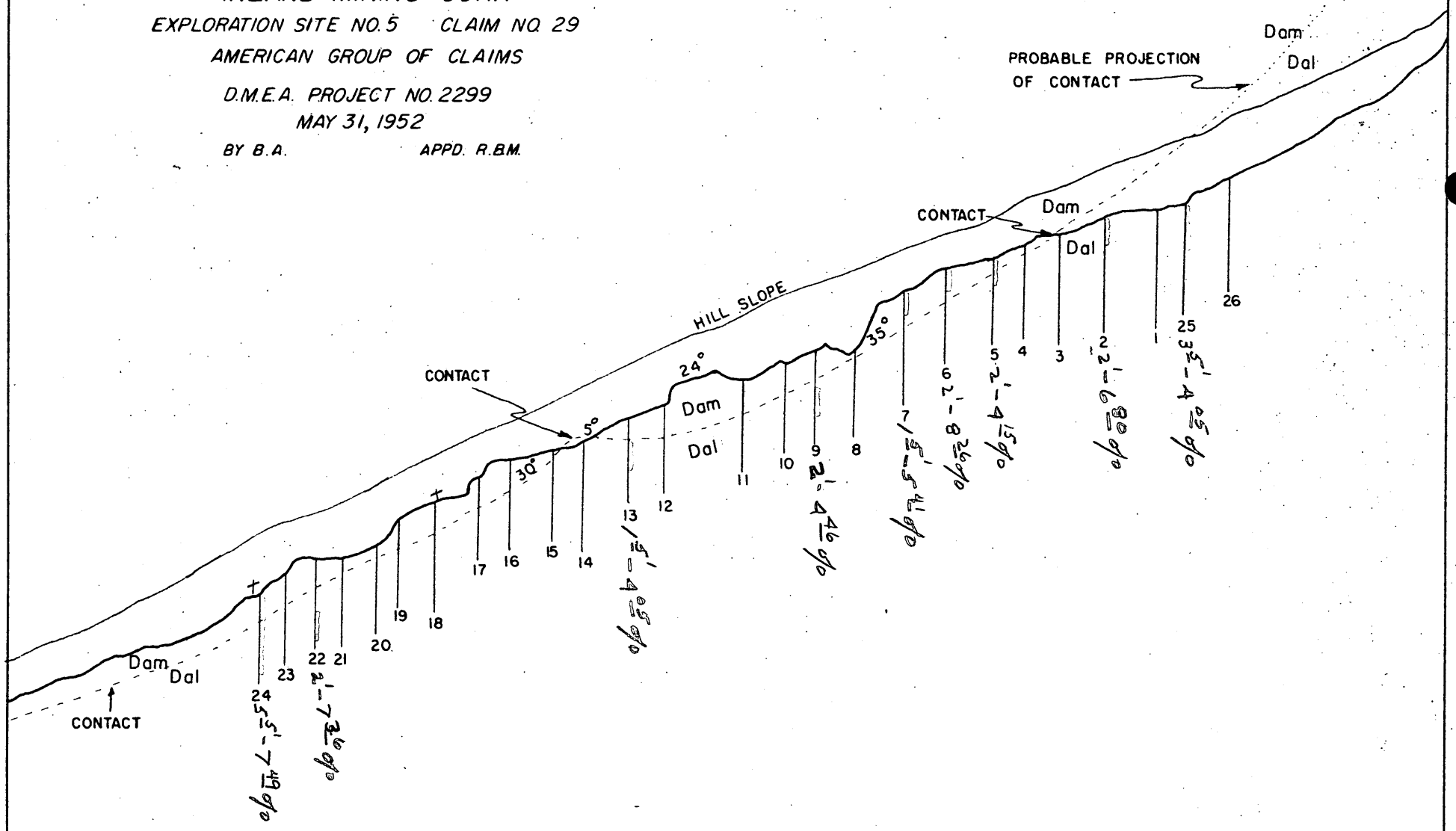
EXPLORATION SITE NO. 5 CLAIM NO. 29

AMERICAN GROUP OF CLAIMS

D.M.E.A. PROJECT NO. 2299

MAY 31, 1952

BY B.A. APPD. R.B.M.



CROSS SECTION OF TRENCH NO. 7 AND DRILL HOLES LOOKING EAST

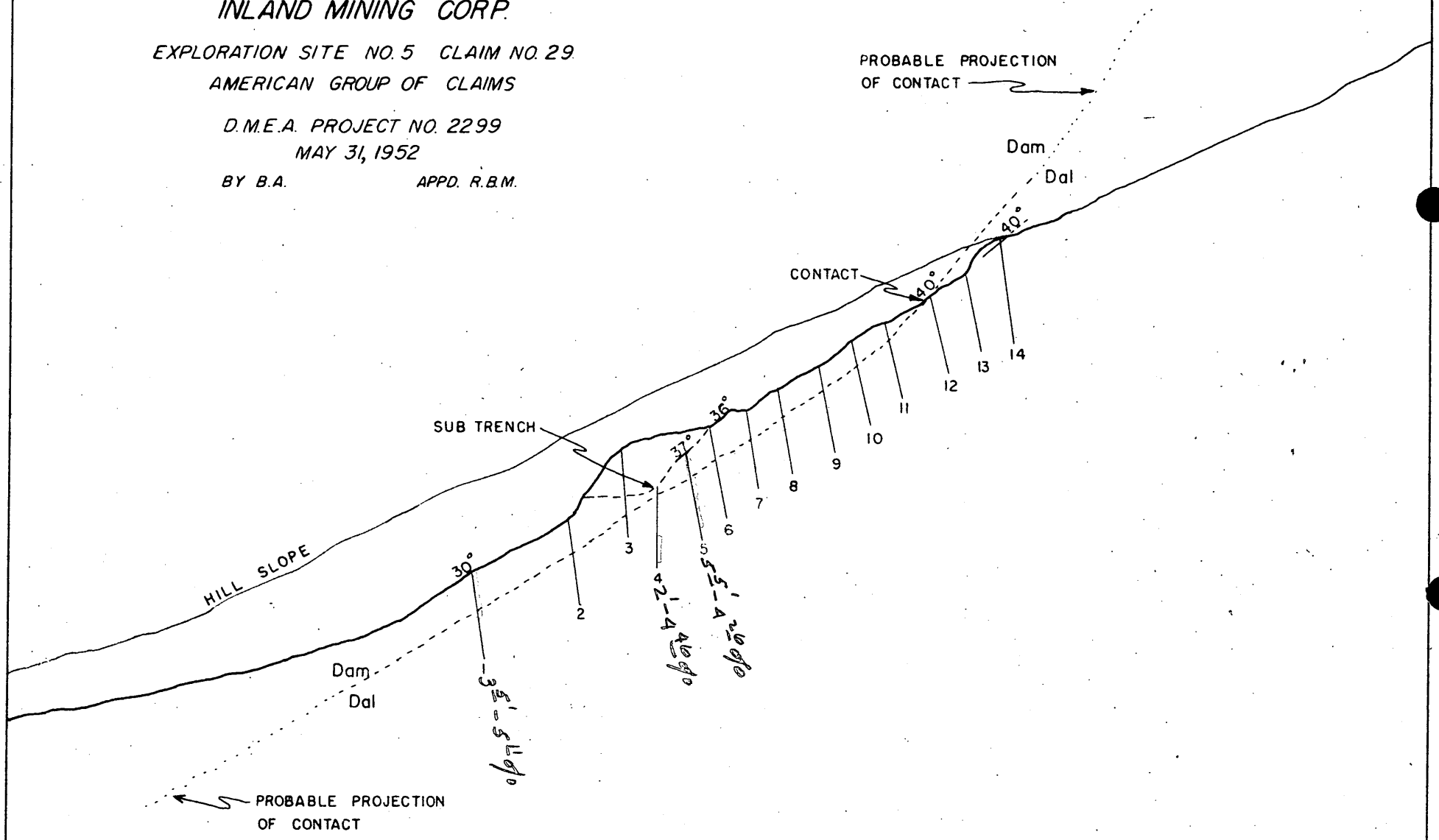
SCALE 1"=10'

INLAND MINING CORP.

EXPLORATION SITE NO. 5 CLAIM NO. 29
AMERICAN GROUP OF CLAIMS

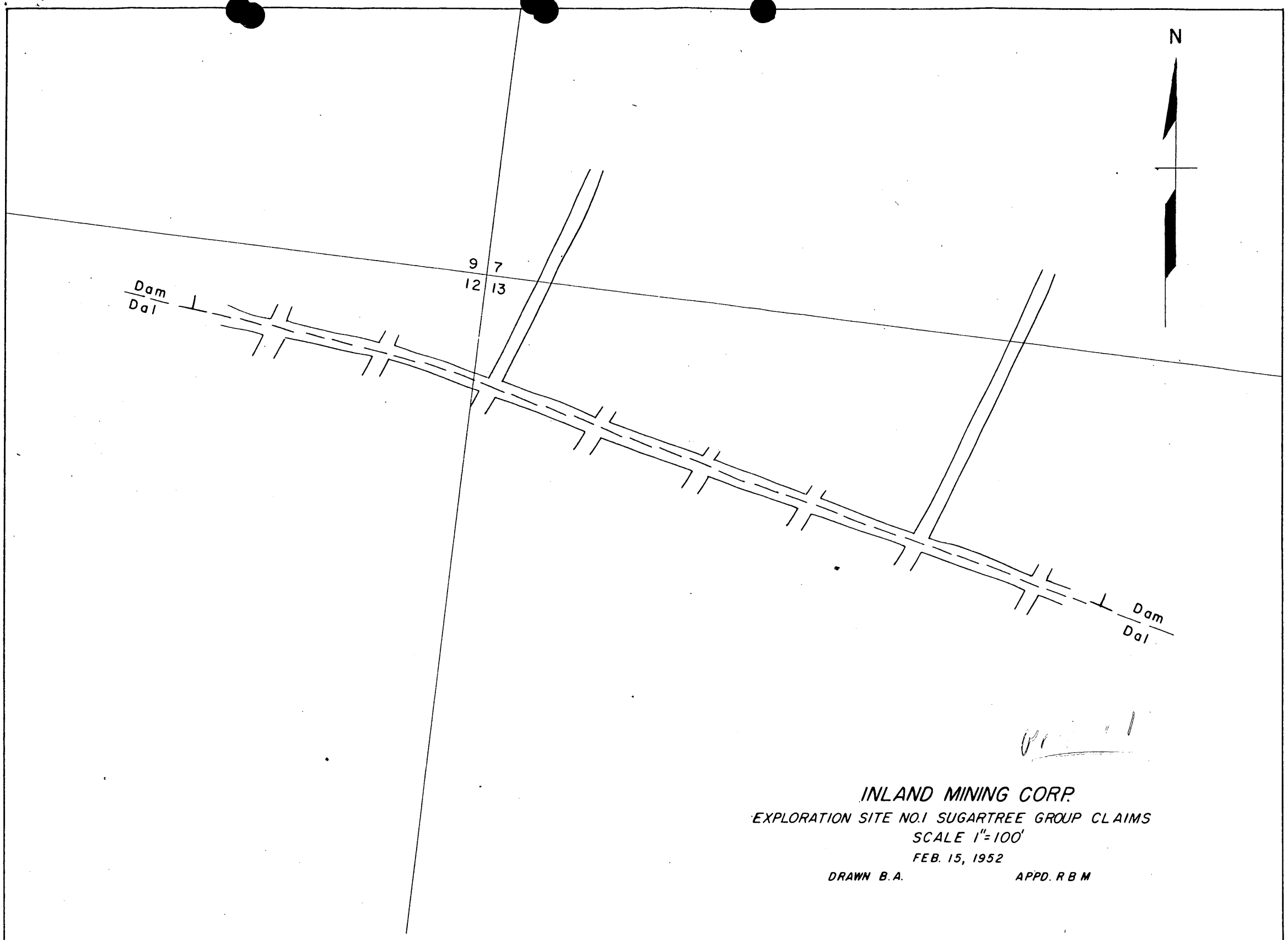
D.M.E.A. PROJECT NO. 2299
MAY 31, 1952

BY B.A. APPD. R.B.M.



CROSS SECTION OF TRENCH NO. 8 AND DRILL HOLES LOOKING S 71° E

SCALE 1" = 10'



INLAND MINING CORP.
EXPLORATION SITE NO.1 SUGARTREE GROUP CLAIMS
SCALE 1"=100'
FEB. 15, 1952
DRAWN B.A. APPD. R B M

LEGEND

TRENCH
GEOLOGIC CONTACT
9 7 / 12 13 CLAIM CORNERS
Dam NOVACULITE- MIDDLE DIVISION
Dal NOVACULITE- LOWER DIVISION

DMEA 2299
PLATE I

PLATE I

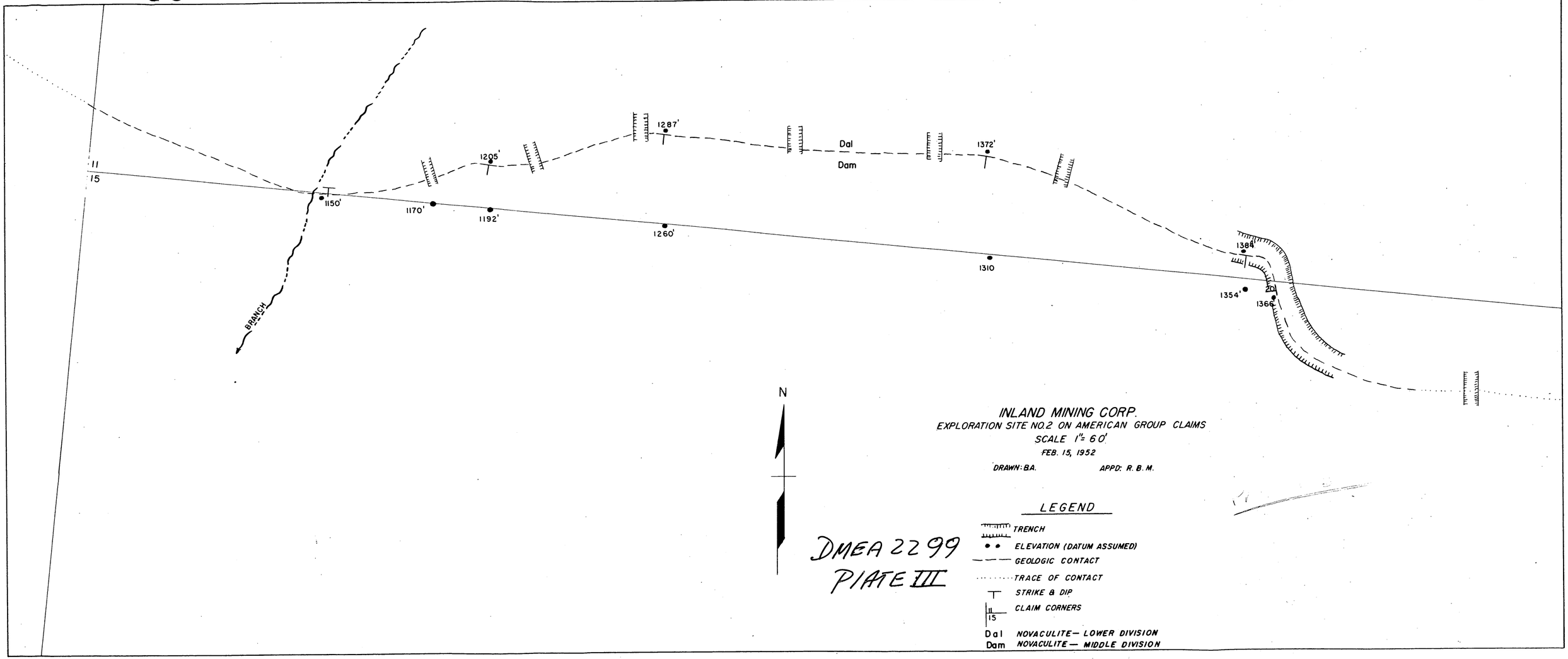

11
15
1150'
1170'
1192'
1205'
1260'
1287'
1310
1354'
1366
1384
1372'
Dal
Dam
BRANCH
N
INLAND MINING CORP.
EXPLORATION SITE NO.2 ON AMERICAN GROUP CLAIMS
SCALE 1" = 60'
FEB. 15, 1952
DRAWN: B.A.
APPD: R. B. M.
LEGEND
TRENCH
ELEVATION (DATUM ASSUMED)
GEOLOGIC CONTACT
TRACE OF CONTACT
STRIKE & DIP
CLAIM CORNERS
Dal NOVACULITE— LOWER DIVISION
Dam NOVACULITE— MIDDLE DIVISION
DMEA 2299
PLATE III

PLATE III

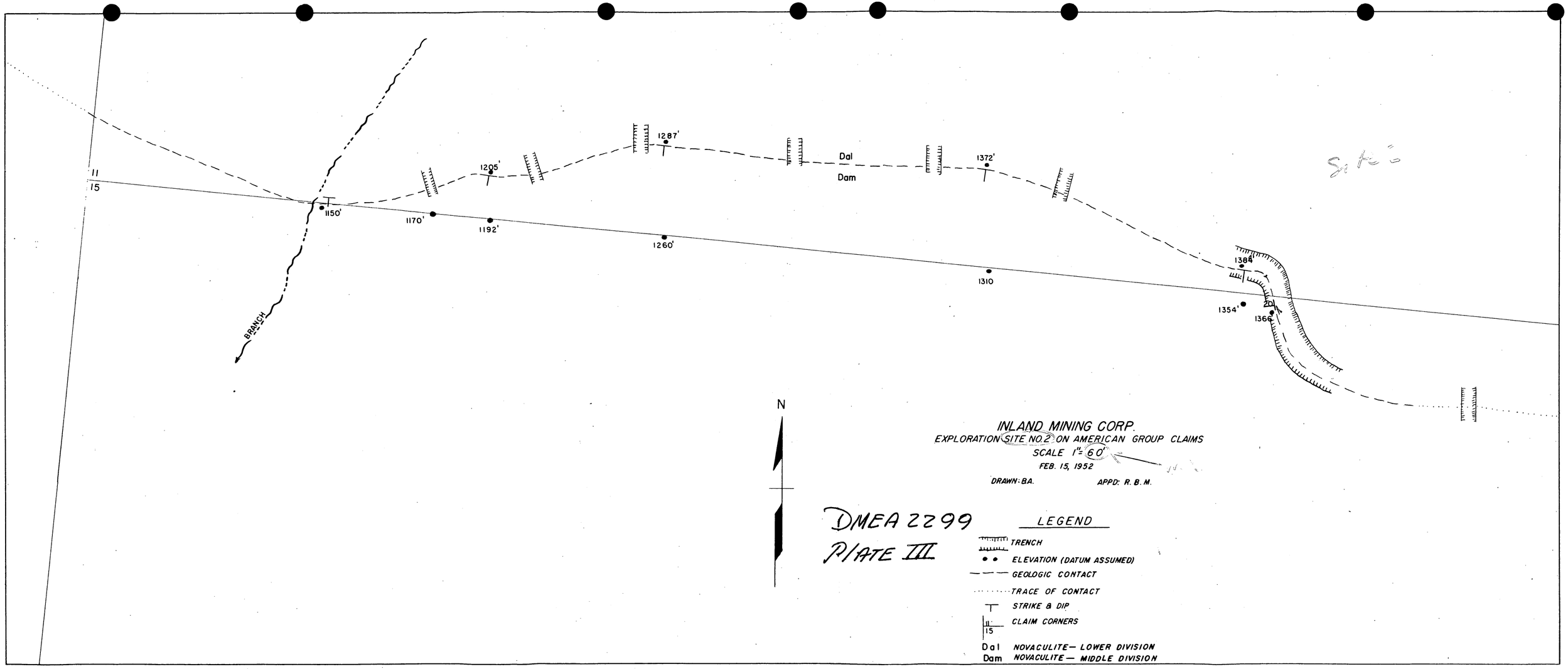
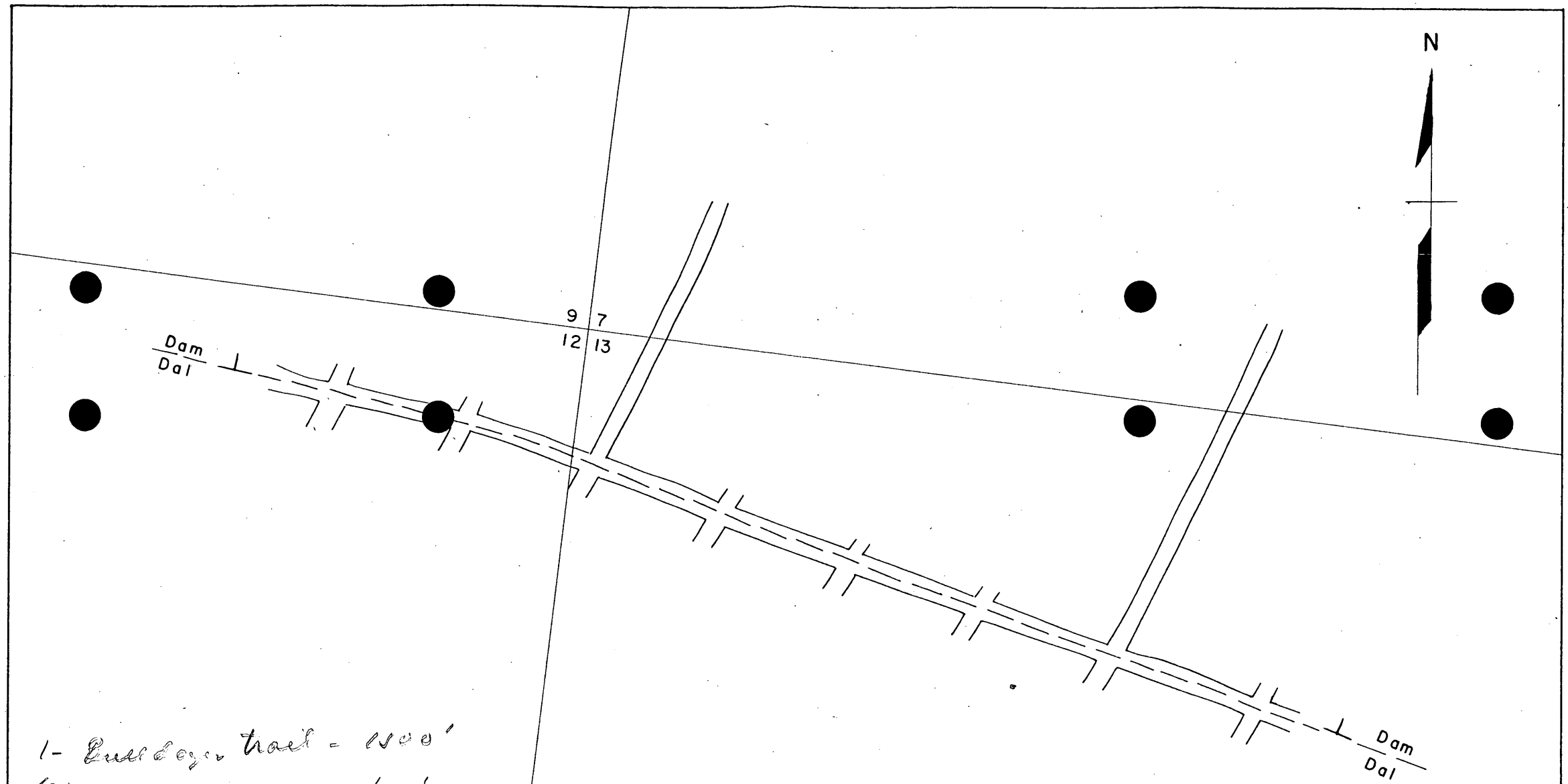

11
15
1150'
1170'
1192'
1205'
1260'
1287'
1310
1354'
1366
1384
1372'
Dal
Dam
BRANCH
N
INLAND MINING CORP.
EXPLORATION SITE NO.2 ON AMERICAN GROUP CLAIMS
SCALE 1" = 60'
FEB. 15, 1952
DRAWN: B.A.
APPD: R. B. M.
DMEA 2299
PLATE III
LEGEND
TRENCH
ELEVATION (DATUM ASSUMED)
GEOLOGIC CONTACT
TRACE OF CONTACT
STRIKE & DIP
CLAIM CORNERS
Dal NOVACULITE— LOWER DIVISION
Dam NOVACULITE— MIDDLE DIVISION

PLATE III

Plate III
(American Sec 2)



1- Bulldozer trail - 1500'
(8) " trenches 600'
Bulk Sampler

INLAND MINING CORP.
EXPLORATION SITE NO.1 SUGARTREE GROUP CLAIMS
SCALE 1"=100'
FEB. 15, 1952
DRAWN B.A. APPD. R B M

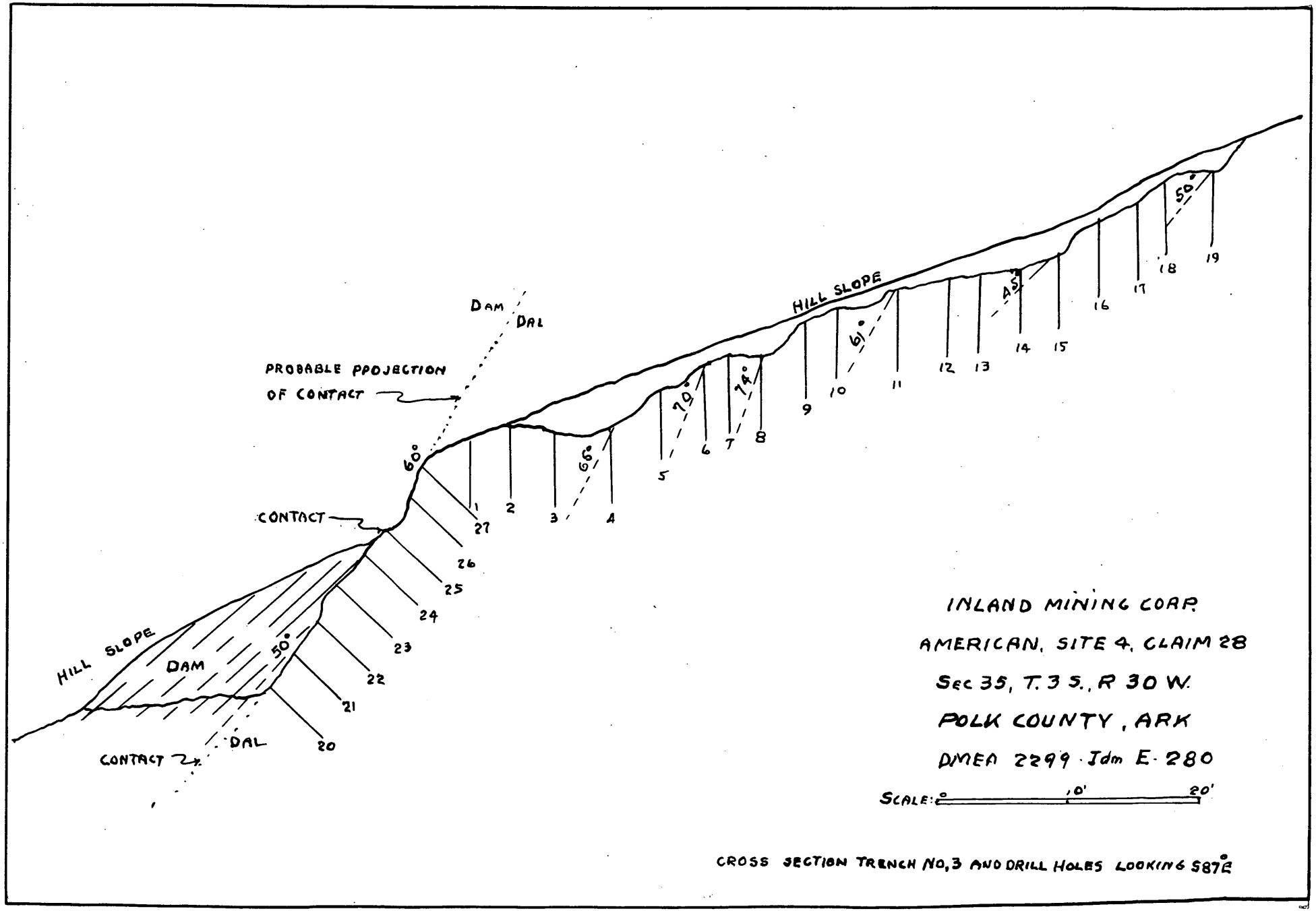
DMEA 2299
PLATE I

LEGEND

TRENCH
GEOLOGIC CONTACT
9 7 / 12 13 CLAIM CORNERS

Dam NOVACULITE- MIDDLE DIVISION
Dal NOVACULITE- LOWER DIVISION

Plate I
(Sugartree)


DAM
DAL
PROBABLE PROJECTION
OF CONTACT
HILL SLOPE
CONTACT
HILL SLOPE
DAM
DAL
CONTACT
60°
66°
70°
74°
61°
45°
50°
50°
1
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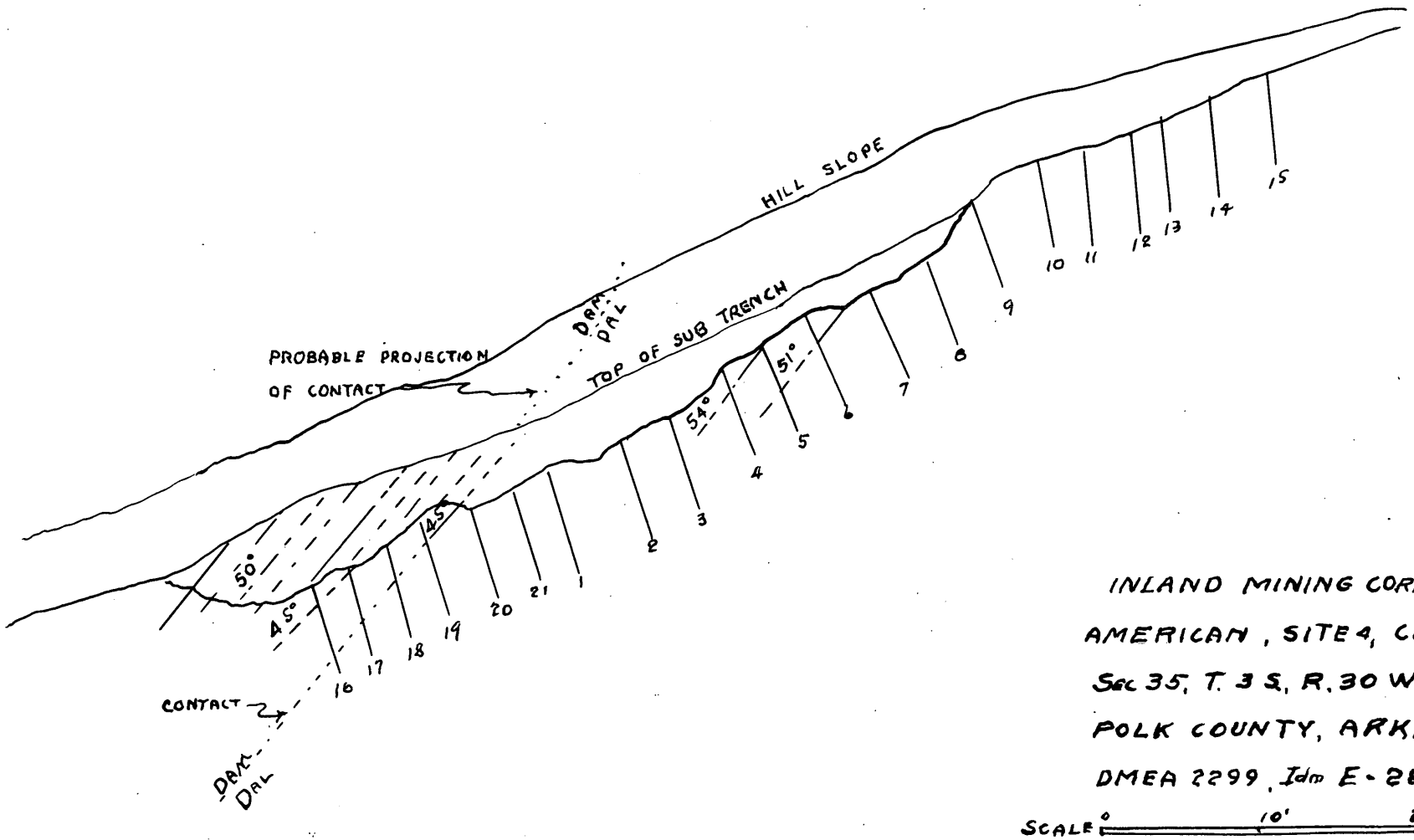
27
INLAND MINING CORP.
AMERICAN, SITE 4, CLAIM 28
SEC 35, T. 3 S., R 30 W.
POLK COUNTY, ARK
DMEA 2299 · Idm E-280
SCALE: 0 10' 20'
CROSS SECTION TRENCH NO. 3 AND DRILL HOLES LOOKING S87°E



INLAND MINING CORP.

AMERICAN, SITE 4, CLAIM #8

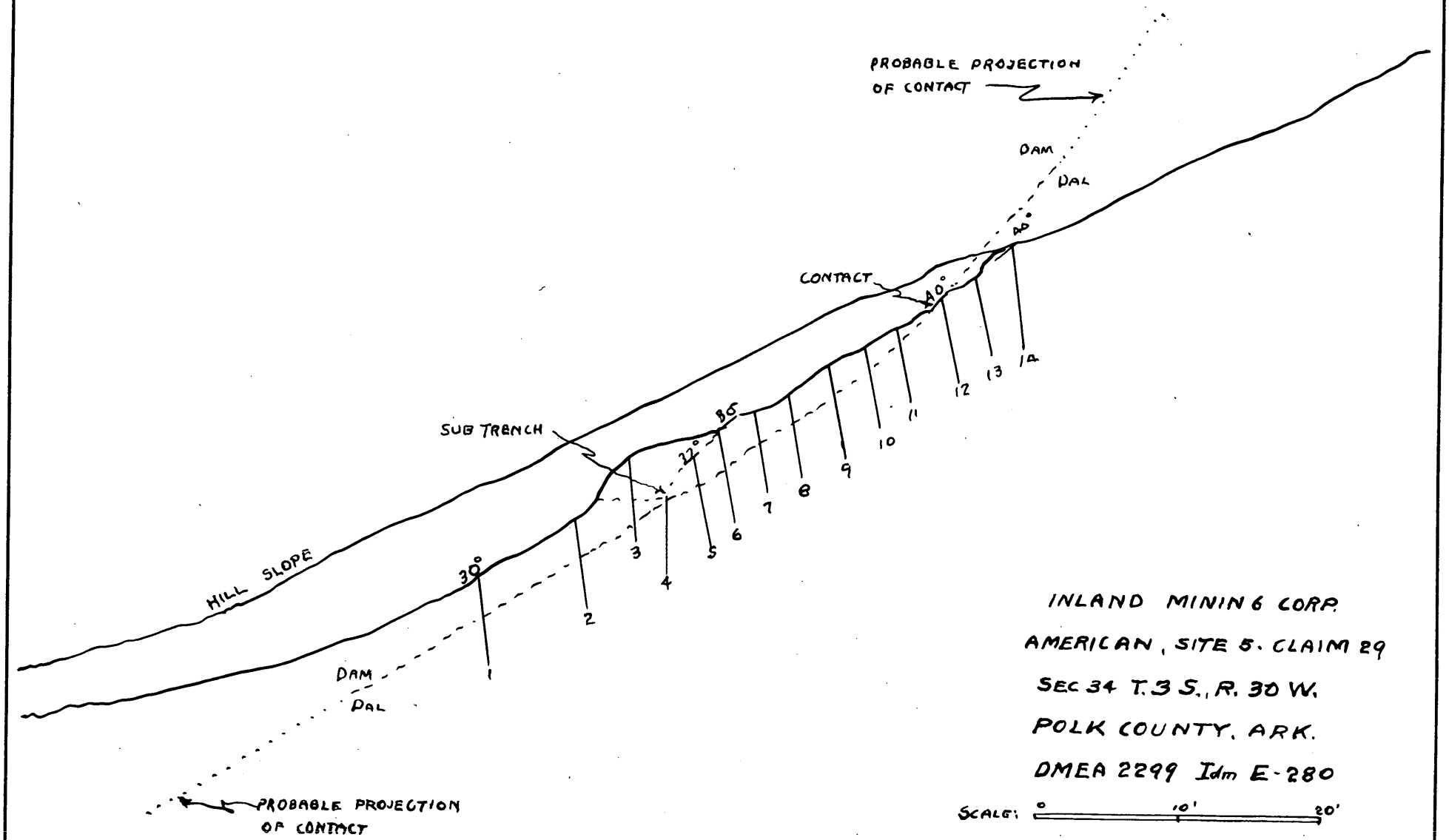
SEC 35, T. 3 S., R. 30 W.

POLK COUNTY, ARK.

DMEA 2299, Idm E-280

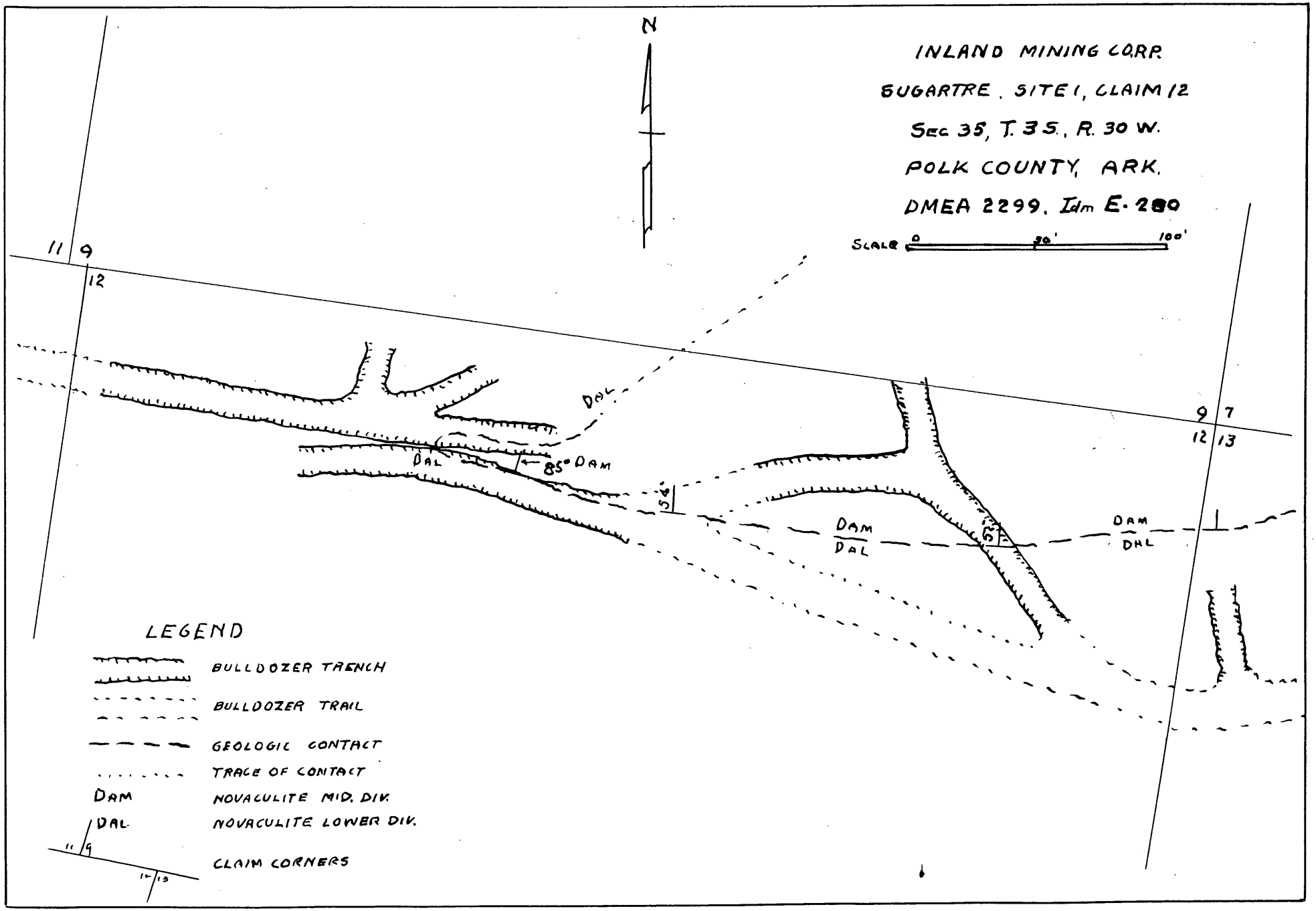
SCALE 0 10' 20'

CROSS SECTION OF TRENCH NO. 1A AND DRILL HOLES LOOKING S75°E



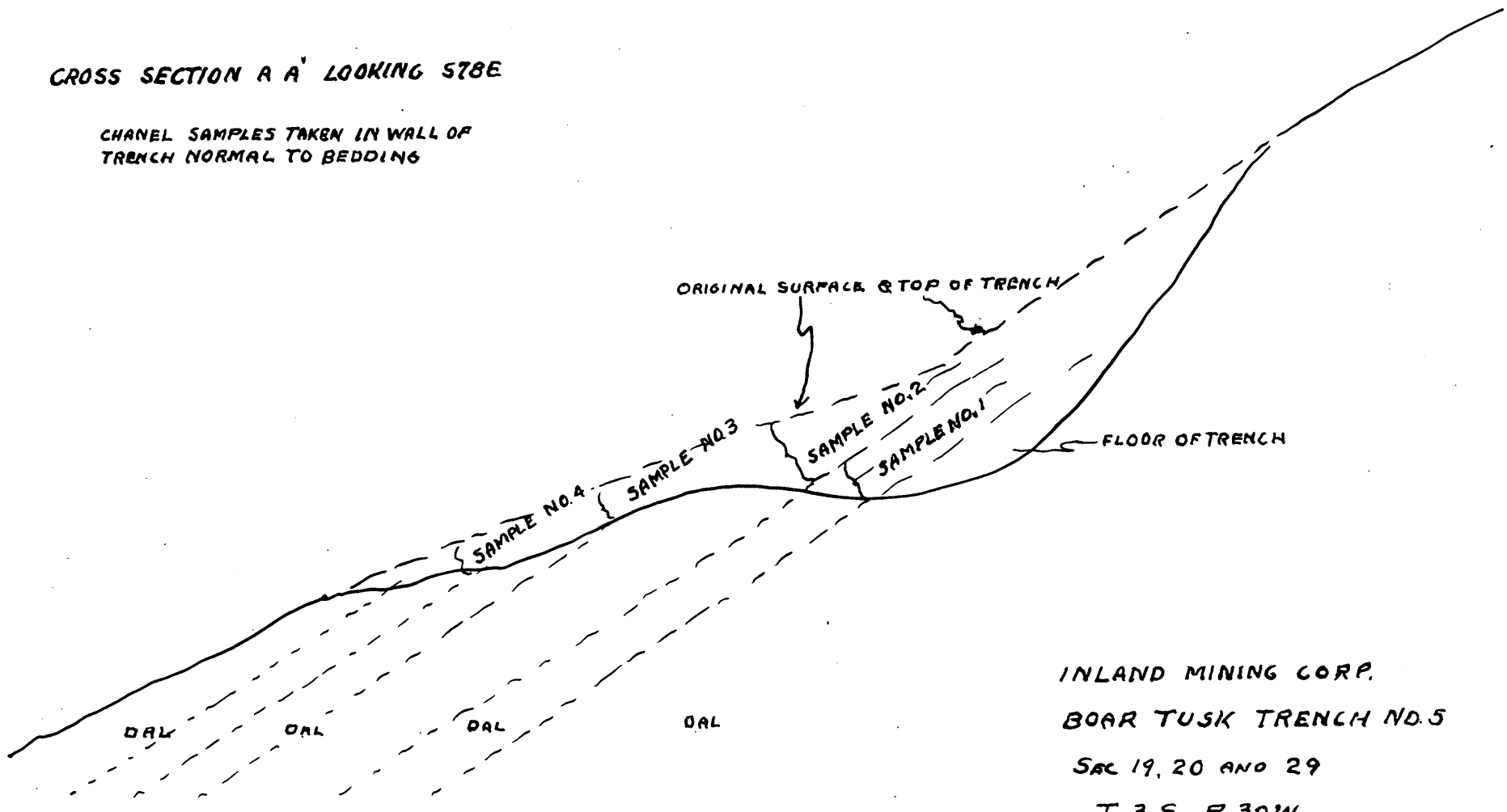
INLAND MINING CORP.
AMERICAN, SITE 5. CLAIM 29
SEC 34 T.3 S., R. 30 W.
POLK COUNTY, ARK.
DMEA 2299 Idm E-280

CROSS SECTION OF TRENCH NO 8 AND DRILL HOLES LOOKING S71°E


INLAND MINING CORP.
SUGARTRE, SITE 1, CLAIM 12
SEC 35, T. 3 S., R. 30 W.
POLK COUNTY, ARK.
DMEA 2299, Idm E-280
SCALE 0 50' 100'
N
11 9
12
9 7
12 13
DAL
DAL
85° DAM
54°
DAM
DAL
55°
DAM
DAL
LEGEND
BULLDOZER TRENCH
BULLDOZER TRAIL
GEOLOGIC CONTACT
TRACE OF CONTACT
DAM NOVACULITE MID. DIV.
DAL NOVACULITE LOWER DIV.
11 9
12 13
CLAIM CORNERS

CROSS SECTION A A' LOOKING S78E

CHANEL SAMPLES TAKEN IN WALL OF TRENCH NORMAL TO BEDDING



INLAND MINING CORP.

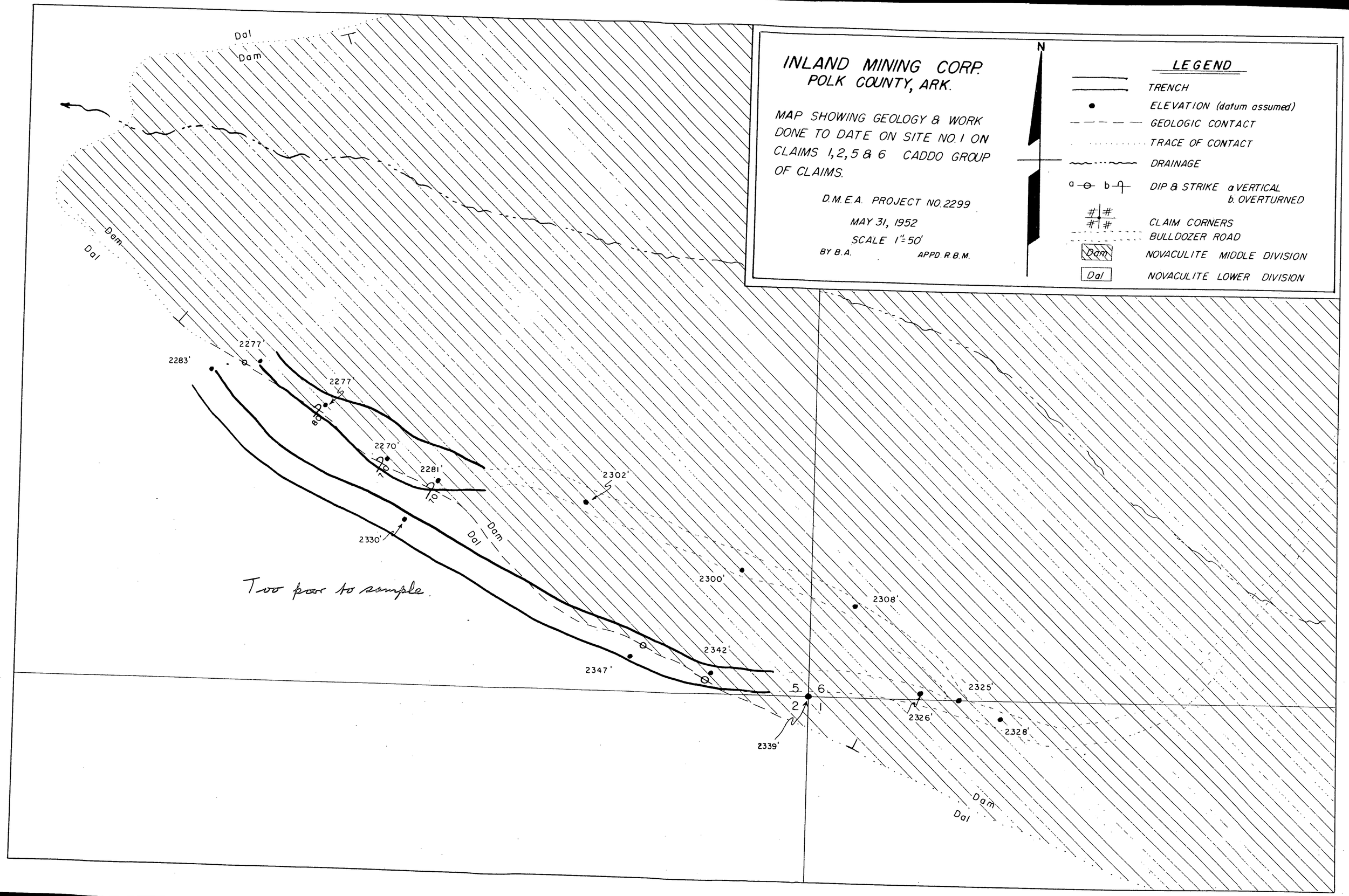
BOAR TUSK TRENCH NO. 5

SEC 19, 20 AND 29

T. 3 S., R 30 W.

DMEA 2299, Idm E-280

SCALE 0 10' 20'


INLAND MINING CORP.
POLK COUNTY, ARK.
MAP SHOWING GEOLOGY & WORK DONE TO DATE ON SITE NO. 1 ON CLAIMS 1, 2, 5 & 6 CADDO GROUP OF CLAIMS.
D.M.E.A. PROJECT NO. 2299
MAY 31, 1952
SCALE 1" = 50'
BY B.A.
APPD. R.B.M.
N
LEGEND
TRENCH
ELEVATION (datum assumed)
GEOLOGIC CONTACT
TRACE OF CONTACT
DRAINAGE
DIP & STRIKE a VERTICAL b. OVERTURNED
CLAIM CORNERS
BULLDOZER ROAD
Dam NOVACULITE MIDDLE DIVISION
Dal NOVACULITE LOWER DIVISION
Dal
Dam
2277'
2283'
2277'
2270'
2281'
2302'
2330'
2300'
2308'
2342'
2347'
2325'
2326'
2328'
2339'
5
6
2
1
Too poor to sample.

INLAND MINING CORPORATION
Dallas, Texas

Items 2 & 7 - Payroll Summary for Month of June 1952
(Corrected Billing)

Employee	Job Classification	Social Security Number	Base Rate	Hours: First Period Regular	Hours: First Period Overtime	Hours: Second Period Regular	Hours: Second Period Overtime	Total Earnings: First Period Check No.	Total Earnings: First Period Am't. Chargeable To Gov't. Contract	Total Earnings: Second Period Check No.	Total Earnings: Second Period Am't. Chargeable to Gov't. Contract
Cecil B. Chenoweth	Managing Officer	452-22-1973	$1,000.00 Per Mo.					1406		1432	--
Roy Lee Atchley	Drill Operator/Sampler	429-28-4904	1.25. Per Hr.	34				1405	$ 42.50	1434	--
Hoyt B. Graves	Foreman	454-16-6904	1.75 Per Hr.	48	11-1/2			1408	114.19	1435	--
Clarence R. Lay	Drill Operator/Sampler	431-18-1146	1.25 Per Hr.	72				1409	90.00	1436	--
Luke Lawrence	Drill Operator/Sampler	567-09-4966	1.25 Per Hr	40	3			1410	55.62		
J. C. Taylor	Drill Operator/Sampler	460-12-2545	1.25 Per Hr.	72				1411	90.00	1437	
Lynn Harris	Drill Operator/Sampler	432-22-6084	1.25 Per Hr.	42				1413	52.50	1438	
Rick Stipe	Laborer	432-60-1711	1.00 Per Hr.	40	3			1412	44.50		
Jim Witherspoon	Laborer	432-60-2205	1.00 Per Hr.	40				1415	40.00		
Homer Evans	Engineering Ass't.	432-05-2043	300.00 Per Mo.	72				1414	135.00		
Wallace Stubblefield	Drill Operator/Sampler	499-24-8634	1.25 Per Hr.	56				1416	82.50		
Sub- Total									$746.81		$ -0-
Bernard Archer	Resident Geologist	102-20-6034	$ 400.00 Per Mo.	(See Schedule attached for allocation of)				1404	150.40	1431	--
Clarice E. Decker	Stenographer	430-52-7111	175.00 Per Mo.	(Salaries between work on Government) (Contract Claims and Other Claims)				1407	65.80	1433	--
Totals, Per Corrected Billing									$963.01		$ -0-

Insurance and Taxes:
Field Payroll of $897.21; Clerical Payroll of $65.80

Insurance:	Rates Per $100.00 Field	Rates Per $100.00 Clerical	Taxes and Insurance Field	Taxes and Insurance Clerical	Taxes and Insurance Total
Workman's Compensation Insurance					
State of Arkansas	$5.11	$ .08	$45.85	$ .05	$45.90
Occupational Disease or Full Medical	.015	..015	.13	.01	.14
General Liability:					
Bodily Injury	1.143	.007	10.26	--	10.26
Property Damage	.938	.006	8.42	--	8.42
Taxes:					
FOAB @ 1-1/2%			13.46	.99	14.45
State Unemployment @ 2.7%			24.22	1.78	26.00
Federal Unemployment @ .3%			2.69	.20	2.89
Total Insurance and Taxes Per Corrected Billing			$105.03	$3.03	$108.06

INLAND MINING CORPORATION
Dallas 2, Texas

Items 6 and 13 - Summary of Operating Materials and Supplies
and Miscellaneous Repair and Maintenance Items
Month of April, 1952

Voucher Reference	Vendor	Total Amount	OPERATING MATERIALS AND SUPPLIES								Miscellaneous Repair & Maintenance Items
			Gasoline	Lubricants	Sampling Supplies	Drilling Supplies	Office Supplies	Blue-printing	Small Tools	Miscellaneous Supplies	
4-12	Utility Supply Company	$ 10.54					$ 10.54				
4-14	Arrow Printing Company	28.50					28.50				
4-17	Reimbursement of Petty Cash:										
	Postage	3.86					3.86				
	Office Supplies	6.12					6.12				
	Freight on Repair Parts	13.17				$13.17					
4-19	Farrell & Schaer Blue Print Co.	15.11						$15.11			
4-20	Watkins Hardware Company	197.38			$116.30				$70.59	$10.44	
4-21	Wallace Drug Store	12.75								12.75	
4-23	The Mena Star Company	10.57			3.07		7.50				
4-24	Hudgins Gulf Service	61.46	$58.06	$1.50						1.90	
4-25	Paul Sanders & Son	11.53									$11.53
4-26	Keuffel & Esser Company	.85									.85
4-30	Browning-Ferris Machinery Co.	939.41				861.74					77.67
4-31	The Automotive, Inc.	89.35									89.35
4-32	Southern Supply, Inc.	7.81									7.81
4-34	Fryar's Super Service Station	91.17	61.41	11.47							18.29
4-36	Busch & Hastings	26.07									26.07
4-37	Magnolia Petroleum Company	188.79		*101.82							
				74.86			12.11				
	Totals	$1,714.39	$119.47	$189.65	$119.37	$874.91	$68.63	$15.11	$70.59	$25.09	$231.57
		1,714.36									

*Diesel Fuel

Certified True Transcript

INLAND MINING CORPORATION

BY Cecil B. Pickenrath

INLAND MINING CORPORATION
Dallas 2, Texas

Item 4 - Payroll Summary

Month of April, 1952

EMPLOYEE	JOB CLASSIFICATION	SOCIAL SECURITY NUMBER	BASE RATE	HOURS FIRST PERIOD REGULAR	HOURS FIRST PERIOD OVERTIME	HOURS SECOND PERIOD REGULAR	HOURS SECOND PERIOD OVERTIME	TOTAL EARNINGS FIRST PERIOD CHECK NO.	TOTAL EARNINGS FIRST PERIOD AMOUNT	TOTAL EARNINGS SECOND PERIOD CHECK NO.	TOTAL EARNINGS SECOND PERIOD AMOUNT
Bernard Archer	Resident Geologist	102-20-6034	$400.00 per mo.					1261	$175.00	1292	$225.00
Roy Lee Atchley	Drill Operator/Sampler	429-28-4904	1.25 per hr.	40	--	80	--	1262	50.00	1294	100.00
Cecil B. Chenoweth	Managing Officer	452-22-1973	1,000.00 per mo.					1263	--	1295	--
Clarice E. Decker	Stenographer	430-52-7111	175.00 " "					1264 & 1323	87.50	1293	87.50
								1265	150.00	1296	150.00
Roy Dunfee	Engineering Assistant	432-14-5412	300.00 " "					1266	16.00	1298	72.00
George Embry	Laborer	525-22-7706	1.00 per hr.	16	--	72	--	1267	16.00	1299	64.00
James Embry	Laborer	525-18-3733	1.00 " "	16	--	64	--	1268	189.00	1297	209.13
Hoyt B. Graves	Foreman	454-16-6904	1.75 " "	96	8	88	21	1270	16.00	1300	80.00
Clarence R. Lay	Laborer	431-18-1146	1.00 " "	16	--	80	--	1269	115.00	1301	80.00
James Luke Lawrence	Drill Operator/Sampler	567-09-4966	1.25 " "	92	--	64	--	1271	16.00	1302	72.00
I. E. Putman	Laborer	429-32-5258	1.00 " "	16	--	72	--	1272	24.00	1304	72.00
J. C. Taylor	Laborer	460-12-2545	1.00 " "	24	--	72	--	1273	144.00	1303	104.25
Loyd Allen Taylor	Tractor Operator	430-28-0188	1.50 " "	96	--	68	1			1322	200.00
Heyser & Heard	Bookkeeping Service		200.00 per mo.								
Totals									$998.50		$1515.88

INSURANCE AND TAXES:

(Field Payroll of $2,139.38; Clerical Payroll of $375.00)

INSURANCE:	RATES Field	RATES Clerical	TAXES AND INSURANCE Field	Clerical	Total
Workmens Compensation Insurance State of Arkansas	5.11	.08	$109.32	$ ~~.30~~ .18	~~$109.62~~ 109.46
Occupational Disease or Full Medical	.015	.015	3.21	~~.06~~ .03	~~3.27~~ 3.24
General Liability:					
Bodily Injury	1.143	.007	24.45	~~.03~~ .01	~~24.48~~ 24.46
Property Damage	.938	.006	20.07	~~.02~~ .01	~~20.09~~ 20.08
TAXES:					
FOAB @ 1½%			32.09	~~5.62~~ 2.62	~~37.71~~ 34.71
State Unemployment @ 2.7%			57.76	~~10.13~~ 4.13	~~67.89~~ 62.49
Federal Unemployment .3%			6.42	~~1.13~~ .53	~~7.55~~ 6.95
Totals, Insurance and Taxes			$253.32	$17.29 8.07	$270.61 261.39

Certified True Transcript

INLAND MINING CORPORATION

BY Cecil B. Chenoweth

INLAND MINING CORPORATION
Dallas 2, Texas

Items 6 and 13 - Summary of Operating Materials and Supplies
and Miscellaneous Repair and Maintenance Items
Month of April, 1952

Voucher Reference	Vendor	Total Amount	OPERATING MATERIALS AND SUPPLIES								Miscellaneous Repair & Maintenance Items
			Gasoline	Lubricants	Sampling Supplies	Drilling Supplies	Office Supplies	Blue-printing	Small Tools	Miscellaneous Supplies	
4-12	Utility Supply Company	$ 10.54					$ 10.54				
4-14	Arrow Printing Company	28.50					28.50				
4-17	Reimbursement of Petty Cash:										
	Postage	3.86					3.86				
	Office Supplies	6.12					6.12				
	Freight on Repair Parts	13.17				$13.17					
4-19	Farrell & Schaer Blue Print Co.	15.11						$15.11			
4-20	Watkins Hardware Company	197.33			$116.30				$70.59	$10.44	
4-21	Wallace Drug Store	12.75								12.75	
4-23	The Mena Star Company	10.57			3.07		7.50				
4-24	Hudgins Gulf Service	61.46	$58.06	$1.50							
4-25	Paul Sanders & Son	11.53								1.90	
4-26	Keuffel & Esser Company	.85									$11.53
4-30	Browning-Ferris Machinery Co.	939.41				861.74					.85
4-31	The Automotive, Inc.	89.35									77.67
4-32	Southern Supply, Inc.	7.81									89.35
4-34	Fryar's Super Service Station	91.17	61.41	11.47							7.81
4-36	Busch & Hastings	26.07									18.29
4-37	Magnolia Petroleum Company	188.79		*101.82							26.07
				74.86			12.11				
	Totals	$1,714.39	$119.47	$189.65	$119.37	$874.91	$68.63	$15.11	$70.59	$25.09	$231.57

*Diesel Fuel

Certified True Transcript

INLAND MINING CORPORATION

BY Fred B. Rhensvold

INLAND MINING CORPORATION
Dallas, Texas

Item 3 - Summary of Operating Materials and Supplies
Month of May 1952

Vou. Ref.	Vendor	Total	Automotive Teaming & Trucking: Fuel	Automotive Teaming & Trucking: Lubricants Supplies & Maintenance	Sampling Supplies	Explosives	Drilling Supplies	Office Supplies	Blue Printing	Small Tools	Miscellaneous Supplies	Assay Charges & Express on Ore Samples
5-9	Southwestern Engr. Co.	$ 49.50										$49.50
5-11	Dallas Stamp Works	2.40						$2.40				
5-12	Utility Supply Co.	3.63									$3.63	
5-13	E.E.Lindsey Motor Co.	2.15		$2.15								
5-14	Arrow Printing Co.	12.50						12.50				
5-5	Reimbursement Petty Cash	44.62										
	Postage							3.47				
	Office Supplies							2.67				
	Frt.on Drilling Supplies						$12.10					
	Express on Ore Samples											26.38
5-15	Reimbursement Petty Cash	31.99										
	Postage							9.47				
	Office Supplies							4.05				
	Field Supplies				$4.15		4.15					
	Frt.on Drilling Supplies						1.40					
	Express on Ore Samples						[illegible]					8.77
5-16	Central Blue Print Co	4.67							$4.67			
5-19	Browning-Ferris Mch. Co.	576.27					576.27					
5-20	Fryar's Super Ser.Sta.	59.59	$43.64	15.95								
5-21	The Bruce Williams Laboratories-Assay Ch.	388.00										388.00
5-22	Busch & Hastings	31.79			31.79							
5-24	Choctaw, Inc.	39.99			39.99							
5-25	Morrow Lbr.Co.	15.35									15.35	
5-26	E.E.Lindsey Mtr.Co.	2.69		2.69								
5-27	Southern Supply Co.	7.05									7.05	
5-28	Paul Sanders & Son	6.58					6.58					
5-29	Turner Tire Store	79.42		79.42								
5-30	Mena Hdw.& Furn Co.	6.00									6.00	
5-32	Middleton Chevr. Co.	.67		.67								
5-33	Western Auto Asso.Store	4.58		4.58								
5-36	The Mena Star Co.	20.30			3.33			16.97				
5-37	Geren Cash Register & Typewriter Co.	7.55						7.55				
5-38	Hudgins' Gulf Service	81.09	67.54	13.55								
5-39	Magnolia Pet. Co.	125.72	*102.13	23.59								
5-41	Farrell & Schaer Blue Print Co.	6.82							6.82			
5-42	Emerson Motor Co.	26.50		26.50								
5-43	The Automotive, Inc.	14.64									14.64	
5-44	Watkins Hdw.Co.	681.56			22.18	$506.70				$131.60	21.08	
5-49	Heyser & Heard	5.60							5.60			
	Totals	$2,339.22	$213.31	$169.10	$101.44	$506.70	$600.50	$59.08	$17.09	$131.60	$67.75	$472.65

*Diesel Fuel

INLAND MINING CORPORATION
Dallas, Texas

Items 2 & 7 - Payroll Summary
Month of May 1952

Employee	Job Classification	Social Security Number	Base Rate	HOURS First Period Regular	HOURS First Period Overtime	HOURS Second Period Regular	HOURS Second Period Overtime	TOTAL EARNINGS First Period Check No.	TOTAL EARNINGS First Period Amount	TOTAL EARNINGS First Period Check No.	TOTAL EARNINGS First Period Amount
Bernard Archer	Resident Geologist	102-20-6034	$400.00 per Mo.					1329	$200.00	1345	$200.00
Roy Lee Atchley	Drill Operator/Sampler	429-28-4904	1.25 per Hr.	104	12	90	2½	1330	152.50	1346	117.19
Cecil B. Chenoweth	Managing Officer	452-22-1973	1000.00 per Mo.					1331	--	1347	--
Clarice E. Decker	Stenographer	430-52-7111	175.00 Per Mo.					1332	87.50	1348	87.50
Roy Dunfee	Engineering Ass't.	432-14-5412	300.00 " "			24 @1.73075	8@2.596125	1333	150.00	1358	62.31
Hoyt B. Graves	Foreman	454-16-6904	1.75 Per Hr.	88	22	88	21	1334	211.75	1360	209.13
Clarence Lay	Laborer and		1.00 " "	56 @ 1.00							
	Drill Operator/Sampler	431-18-1146	1.25 " "	32 @ 1.25		89	5½	1335	96.00	1352	121.56
Luke Lawrence	Drill Operator/Sampler	567-09-4966	1.25 " "	72		48		1336	90.00	1351	60.00
J.C. Taylor	Laborer and Drill		1.00 " "	56 @ 1.00							
	Operator/Sampler	460-12-2545	1.25 " "	32 @ 1.25		89	5½	1337	96.00	1356	121.56
Lynn Harris	Bull Dozer Operator		1.00 " "								
	(Trainee)	432-22-6084	1.25 " "	64 @ 1.00		88 @1.25	4 @1.875	1338	64.00	1350	117.50
Rick Stipe	Laborer	432-60-1711	.80 " "			7½ @ .80					
			1.00 " "	38½ @ .80¢		46½@1.00		1339	30.80	1353	52.50
James Forbes	Laborer	432-58-1532	.80 " "			7½ @ .80					
			1.00 " "	21		9 @1.00		1340	16.80	1349	15.00
Wallace Stubblefield	Drill Operator/										
	Sampler	499-24-8634	1.25 " "			48½				1354	60.63
Charles K. Taylor	Laborer	449-48-6664	1.00 " "			9				1355	9.00
Jim Witherspoon	Laborer	Number applied for	1.00 " "			37½				1357	37.50
Homer Evans	Engineering Ass't.	432-05-2043	300.00 Per Mo.			37½@1.73075				1359	64.90
									$1,195.35		$1,336.28

Insurance and Taxes:
Field Payroll of $2,356.63; Clerical Payroll of $175.00

Insurance:	Rates per $100.00 Field	Rates per $100.00 Clerical	Taxes and Insurance Field	Taxes and Insurance Clerical	Taxes and Insurance Total
Workmens Compensation Insurance					
State of Arkansas	5.11	.08	$120.42	$ .14	$120.56
Occupational Disease or Full Medical	.015	.015	.35	.03	.38
General Liability					
Bodily Injury	1.143	.007	26.94	.01	26.95
Property Damage	.938	.006	22.10	.01	22.11
Taxes:					
FOAB @ 1½%			35.35	2.62	37.97
State Unemployment @ 2.7%			63.63	4.72	68.35
Federal Unemployment @ .3%			7.07	.52	7.59
Totals, Insurance and Taxes			$275.86	$8.05	$283.91

INLAND MINING CORPORATION
Dallas, Texas

Item 3 - Summary of Operating Materials and Supplies
Month of June 1952

Vou. Ref.	Vendor	Total	Automotive Teaming & Trucking: Fuel	Automotive Teaming & Trucking: Lubricants, Supplies & Maintenance	Sampling Supplies	Explosives	Drilling Supplies	Office Supplies	Blue Printing	Small Tools	Miscellaneous Supplies	Assay Charges and Express on Ore Samples
6-3	John Carter's Salvage	$ 20.00		$20.00								
6-6	Cash - Roll of Stamps	15.03						$15.03				
6-14	Keuffel & Esser Co.	2.13						2.13				
6-15	E. E. Lindsey Motor Co.	1.56		1.56								
6-16	John Carter's Salvage	12.00		12.00								
6-16	Southern Supply, Inc.	1.79								$ 1.79		
6-18	The Automotive, Inc.	8.49		8.49								
6-19	Farrell & Schaer Blue Print Co.	93.50						71.69	$21.81			
6-20	The Mena Star Co.	3.73			$ .61			3.12				
6-21	Watkins Hardware Co.	126.49			.85	$89.25	$13.11			23.28		
6-22	Magnolia Pet. Co. (Diesel Fuel & Gasoline)	76.58	$70.71	5.87								
6-23	Hudgins Gulf Service	79.70	64.19	15.51								
6-24	Geren Cash Reg. & Typewr. Co.	2.91						2.91				
6-25	Fort Smith Office Sup. House	11.61						11.61				
6-26	Wallace Drug Store	1.40						1.40				
6-28	Western Auto Associate Store	3.82		3.82								
6-29	Paul Sanders & Son	9.16									$ 9.16	
6-30	The Bruce Williams Lab.	317.00										$317.00
6-33	Fryar's Super Service Sta.	48.76	31.21	17.55								
6-34	Towler's Cities Ser. Sta.	3.82	2.82	1.00								
6-35	Central Blue Print Co.	1.39							1.39			
6-38	Browning-Ferris Mchy. Co.	246.09		173.53	67.56		5.00					
6-39	Reimbursement - Petty Cash	39.21										
	Postage							5.82				
	Frt. & Expr. on Ore Samples											14.24
	Frt. on Maintenance Sup.			6.79								
	Misc. Office Supplies							2.36				
	Gas & Oil - B. Archer, Resident Geo.		10.00									
6-40	Barham Motor Co.	13.02		13.02								
	Totals, Per Original Billing	$1,139.19	$178.93	$279.14	$69.02	$89.25	$18.11	$116.07	$23.20	$25.07	$ 9.16	$331.24
	Less, Costs subsequently determined to have been incurred on mining claims not included in Government Contract:											
	100% of Assay Charges on claims not included in Gov. Contract which amounted to 38.9% of Assay Charges (Vou. 6-30)	$ 123.25										123.25
	38.9% of Express on Ore Samples (Vou. 6-39)	5.54										5.54
	100% of Blue Prints of Field Office (Vou. 6-19)	21.81							21.81			
	40.50% of Auto, Trn. & Tr. Exp., sampling supplies, Explosives, drilling supplies, Office supplies, small tools & Misc. sup. (Basis of Reduction is percentage of direct labor for Mo. of June 1952 found to have been employed on claims not included in Gov. Contract)	317.82	72.47	113.05	27.95	36.15	7.33	47.01	--	10.15	3.71	--
	Totals, Per Corrected Billing	$ 670.77	$106.46	$166.09	$41.07	$53.10	$10.78	$69.06	$ 1.39	$14.92	$ 5.45	$202.45

INLAND MINING CORPORATION
Dallas, Texas

Items 2 & 7 - Payroll Summary for Month of June 1952
(Original Billing)

Employee	Job Classification	Social Security Number	Base Rate	Hours: First Period Regular	Hours: First Period Overtime	Hours: Second Period Regular	Hours: Second Period Overtime	Total Earnings: First Period Check No.	Total Earnings: First Period Amount	Total Earnings: Second Period Check No.	Total Earnings: Second Period Amount
Bernard Archer	Resident Geologist	102-20-6034	$400.00 Per Mo.					1404	$200.00	1431	$200.00
Roy Lee Atchley	Drill Operator/Sampler	429-28-4904	1.25 Per Hr.	74		88	8	1405	92.50	1434	125.00
Cecil B. Chenoweth	Managing Officer	452-22-1973	1,000.00 Per Mo.					1406	--	1432	--
Clarice E. Decker	Stenographer	430-52-7111	175.00 Per Mo.					1407	87.50	1433	87.50
Hoyt B. Graves	Foreman	454-16-6904	1.75 Per Hr.	80	13-1/2	88	24	1408	175.44	1435	217.00
Clarence R. Lay	Drill Operator/Sampler	431-18-1146	1.25 Per Hr.	80		88	10-1/2	1409	100.00	1436	129.69
Luke Lawrence	Drill Operator/Sampler	567-09-4966	1.25 Per Hr.	80	3			1410	105.63		
J. C. Taylor	Drill Operator/Sampler	460-12-2545	1.25 Per Hr.	80		40	8	1411	100.00	1437	65.00
Lynn Harris	Drill Operator/Sampler	432-22-6084	1.25 Per Hr.	74		80	9-1/2	1413	92.50	1438	117.81
Rick Stipe	Laborer	432-60-1711	1.00 Per Hr.	40	3			1412	44.50		
Jim Witherspoon	Laborer	432-60-2295	1.00 Per Hr.	40				1415	40.00		
Homer Evans	Engineering Assistant	432-05-2043	300.00 Per Mo.	80				1414	150.00		
Wallace Stubblefield	Drill Operator/Sampler	499-24-8634	1.25 Per Hr.	74				1416	92.50		
Totals									$1,280.57		$942.00

Insurance and Taxes:

Field Payroll of $2,047.57; Clerical Payroll of $175.00

Insurance:

	Rates per $100.00 Field	Rates per $100.00 Clerical	Taxes and Insurance Field	Taxes and Insurance Clerical	Taxes and Insurance Total
Workman's Compensation Insurance					
State of Arkansas	5.11	.08	$104.63	$ .14	$104.77
Occupational Disease or Full Medical	.015	.015	.31	.03	.34
General Liability					
Bodily Injury	1.143	.007	23.40	.01	23.41
Property Damage	.938	.006	19.21	.01	19.22
Taxes:					
FOAB @1-1/2%			30.71	2.62	33.33
State Unemployment @ 2.7%			55.28	4.72	60.00
Federal Unemployment @ .3%			6.14	.52	6.66
Totals, Insurance and Taxes			$239.68	$8.05	$247.73

INLAND MINING CORPORATION
Dallas, Texas

Item 3 - Summary of Operating Materials and Supplies
Month of July 1952

Vou. Ref.	Vendor	Total	Automotive Teaming & Trucking: Fuel	Automotive Teaming & Trucking: Lubricants Supplies & Maintenance	Field Operating Supplies	Blue Printing	Office Supplies	Assay Charges and Express on Ore Samples
7-11	Farrell & Schaer Blue Print Co.	$ 33.95				$33.95		
7-12	Southern Supply, Inc.	30.30			$30.30			
7-13	Arrow Printing Co.	7.50					$ 7.50	
7-14	Utility Supply Company	7.97			2.79		5.18	
7-15	Barham Motor Company	5.56		$ 5.56				
7-16	Dallas Stamp Works	1.10					1.10	
7-17	The Automotive, Inc.	9.24			9.24			
7-18	The Bruce Williams Labratories	98.50						$98.50
7-19	The Mena Star Company	4.34					4.34	
7-20	Fryars Super Service Station	125.83	$34.71	91.12				
7-24	Choctaw, Inc.	80.78			80.78			
7-25	Hudgins Gulf Service	15.70	15.70					
7-26	E. E. Lindsey Motor Company	6.66		6.66				
	Totals, Per Original Billing	$427.43	$50.41	$103.34	$123.11	$33.95	$18.12	$98.50
	Less, Costs subsequently determined to have been incurred on mining claims not included in Government Contract:							
	40% of Fuel (Used by Resident Geologist)	$ 20.16	$20.16					
	100% of Assay Charges	98.50						$98.50
	100% of Blue Print Charges	33.95				$33.95		
	Totals, Per Corrected Billing	$274.82	$30.25	$103.34	$123.11	$ -0-	$18.12	$ -0-

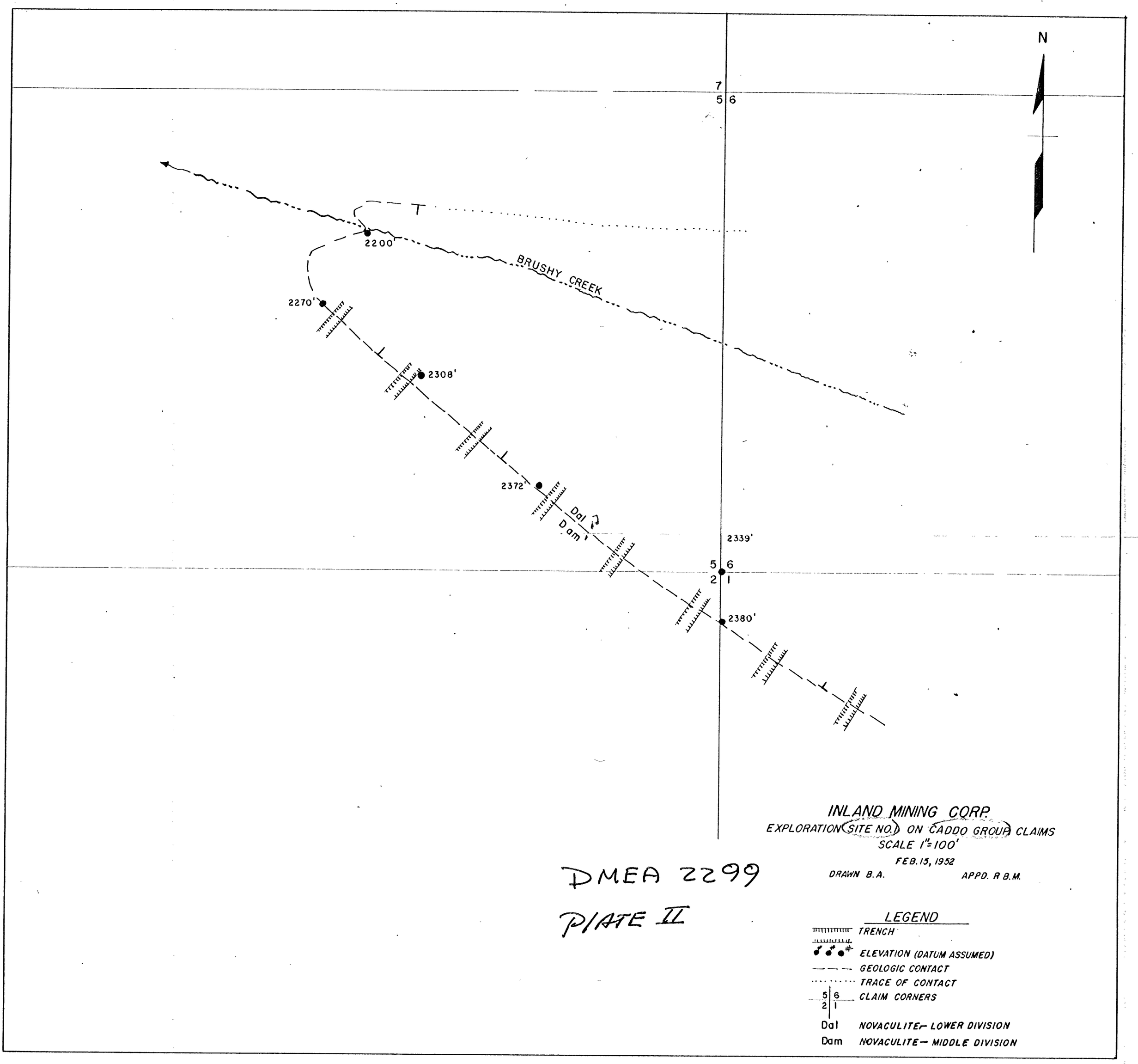
INLAND MINING CORPORATION
Dallas, Texas

Items 2 & 7 - Payroll Summary for Month of July 1952

Employee	Job Classification	Social Security Number	Base Rate	Hours: First Period Regular	Hours: First Period Overtime	Hours: Second Period Regular	Hours: Second Period Overtime	Total Earnings: First Period Check No.	Total Earnings: First Period Amount	Total Earnings: Second Period Check No.	Total Earnings: Second Period Amount
Bernard Archer	Resident Geologist	102-20-6034	$400.00 Per Mo.					1472	$200.00	1482	$200.00
Roy Lee Atchley	Drill Operator/Sampler	429-28-4904	1.25 Per Hr.	8				1478	10.00		
Cecil B. Chenoweth	Managing Officer	452-22-1973	1,000.00 Per Mo.								
Clarice E. Decker	Stenographer	430-52-7111	175.00 Per Mo.					1474	87.50	1483	87.50
Hoyt B. Graves	Foreman	454-16-6904	1.75 Per Hr.	54		19-1/2		1475	94.50	1485	34.13
Clarence R. Lay	Drill Operator/Sampler	431-18-1146	1.25 Per Hr.	12				1476	15.00		
Luke Lawrence	Drill Operator/Sampler	567-09-4960	1.25 Per Hr.	32		40		1477	40.00	1484	50.00
Totals, Per Original Billing									$447.00		$371.63
Less, 40% of Salary of Bernard Archer for time spent on Mining Claims not included in Government Contract									80.00		80.00
Totals, Per Corrected Billing									$367.00		$291.63

Insurance and Taxes:
Field Payroll of $643.63; Clerical Payroll of $175.00

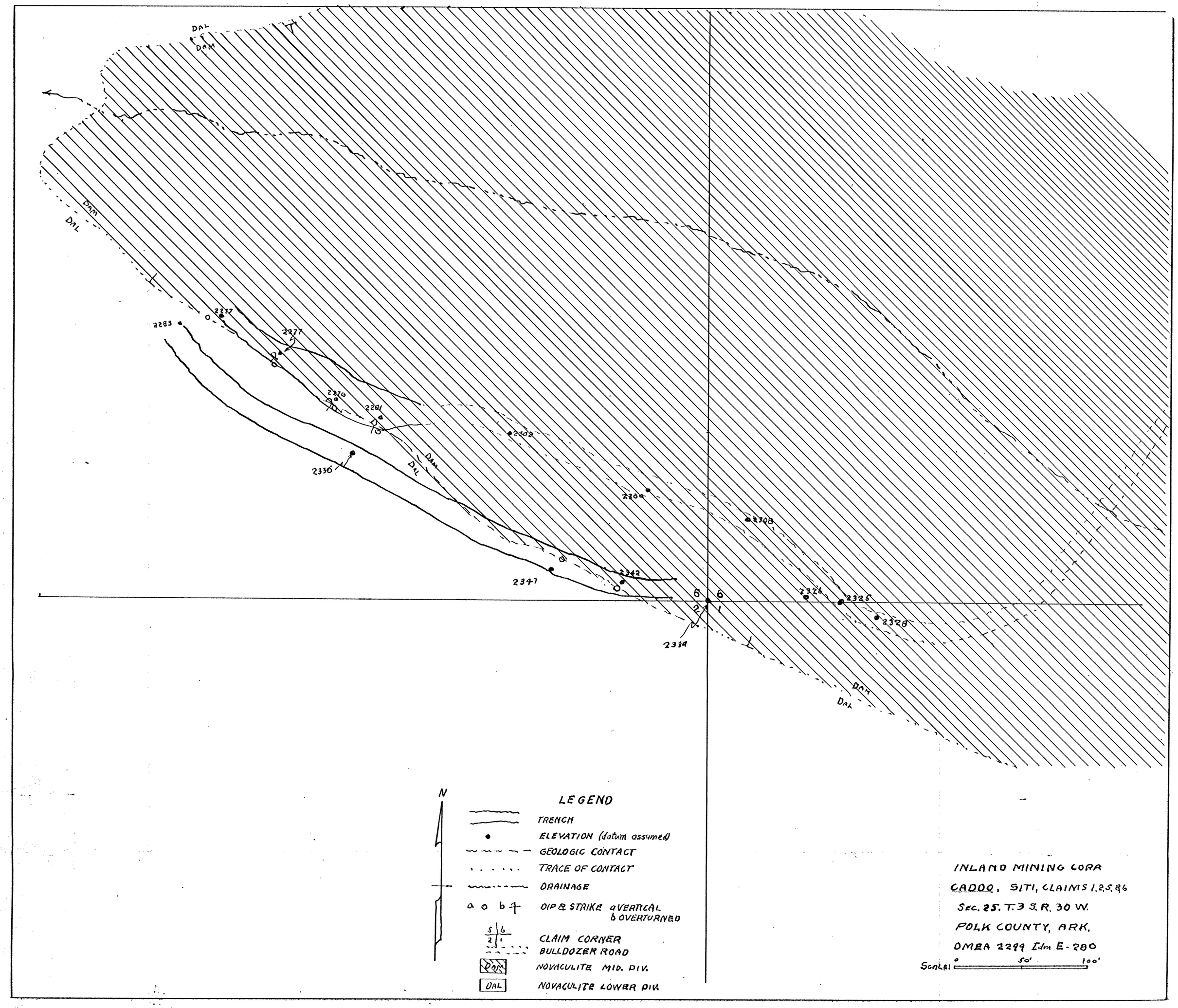
Insurance:	Rates per $100.00 Field	Rates per $100.00 Clerical	Taxes and Insurance Field	Taxes and Insurance Clerical	Taxes and Insurance Total
Workman's Compensation Insurance State of Arkansas	5.11	.08	$32.89	$ .14	$33.03
Occupational Disease or Full Medical	.015	.015	.10	.03	.13
General Liability					
Bodily Injury	1.143	.007	7.36	.01	7.37
Property Damage	.938	.006	6.04	.01	6.05
Taxes:					
FOAB @ 1-1/2%			9.65	2.62	12.27
State Unemployment @ 2.7%			17.38	4.72	22.10
Federal Unemployment @ .3%			1.93	.52	2.45
Totals, Insurance and Taxes Per Original Billing			$75.35	$8.05	$83.40
Less, adjustment for insurance and taxes on salary of Bernard Archer applicable to time spent on Mining Claims not included in Government Contract:					
Workman's Compensation Insurance - Arkansas @ $5.11 Per $100.00			8.17		8.17
Occupational Disease and General Liability @ $2.096 Per $100.00			3.35		3.35
Payroll Taxes @ 4-1/2%			7.20		7.20
Totals, Insurance and Taxes Per Corrected Billing			$56.63	$8.05	$64.68

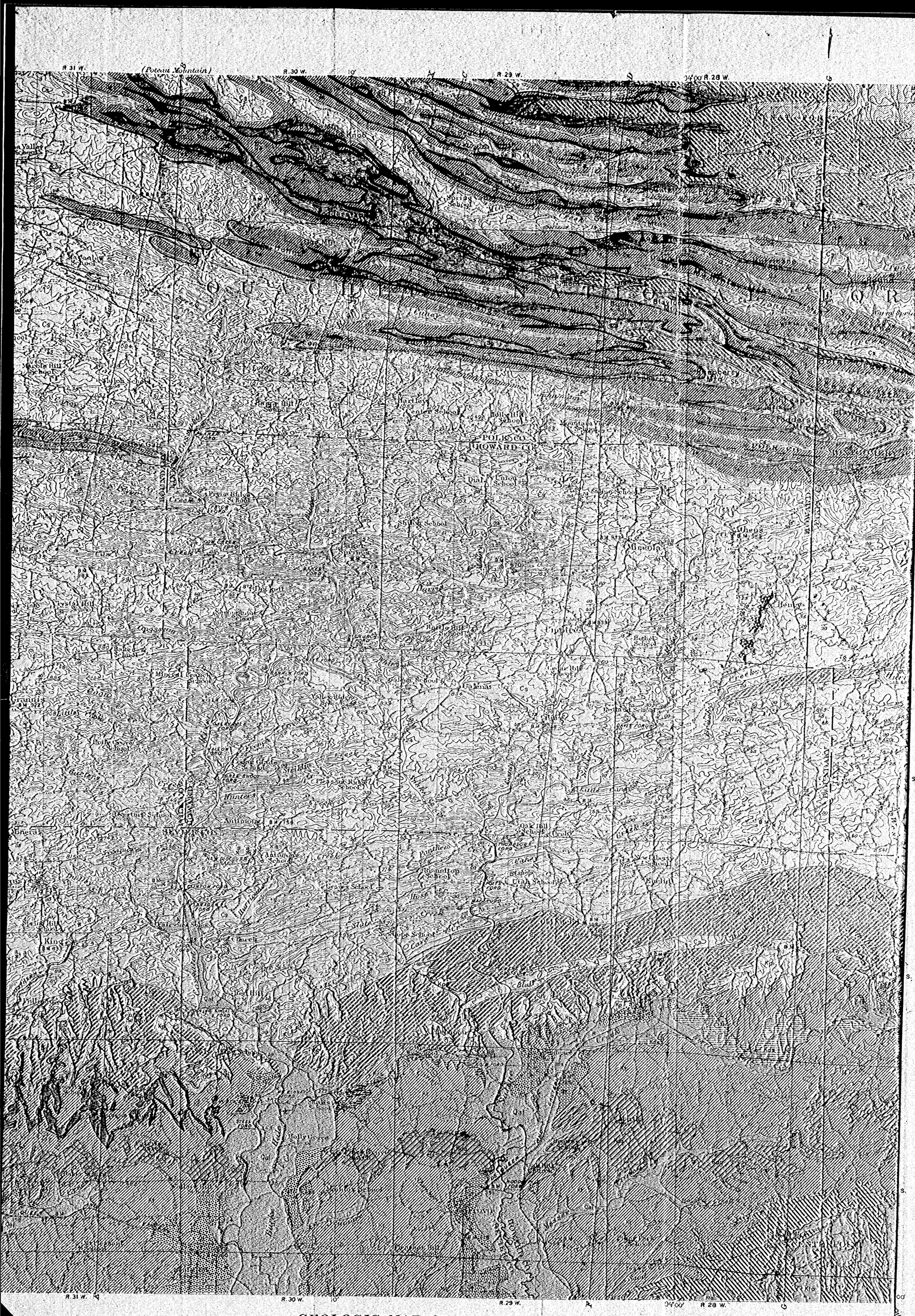


DMEA 2299

PLATE II

PLATE II


DAL
DAM
DAM
DAL
2283
2277
2277
2270
2281
2302
2330
DAM
DAL
2300
2308
2347
2342
5
6
2
1
2326
2325
2328
2339
DAM
DAL
N
LEGEND
TRENCH
ELEVATION (datum assumed)
GEOLOGIC CONTACT
TRACE OF CONTACT
DRAINAGE
a o b
DIP & STRIKE a VERTICAL b OVERTURNED
5 6 2 1
CLAIM CORNER
BULLDOZER ROAD
DAM
NOVACULITE MID. DIV.
DAL
NOVACULITE LOWER DIV.
INLAND MINING CORP
CADDO, SITI, CLAIMS 1,2,5,&6
SEC. 25, T.3 S. R. 30 W.
POLK COUNTY, ARK.
OMBA 2299 Idm E-280
SCALE: 0 50' 100'



GEOLOGIC MAP OF DE QUEEN AND CADDO GAP QUADRANGLES, ARKANSAS

Scale $\frac{1}{125000}$

1 ½ 0 1 2 3 4 5 Miles

1 ½ 0 1 2 3 4 5 Kilometers

Contour interval 50 feet.

Datum is mean sea level.

1929

EXPLANATION

SEDIMENTARY ROCKS

QUATERNARY

Qal — **Alluvium**
(Gravel and silt in valley bottoms; partly represented in Ouachita Mountain region)

Qt — **Terrace deposits**
(Gravel and loam on stream terraces; areas in Ouachita Mountain region are small and are not represented on map)

TERTIARY (?)

Ꞓt — **Tertiary (?) gravel**
(Fine and coarse gravel on Athens Plateau. It rests upon the Stanley shale)

CRETACEOUS

Upper Cretaceous (Gulf series)

Kbs — **Brownstown marl**
(Blue and gray calcareous clay)

Kto — **Tokio formation**
(Gravel, sand, and clay)

Kw — **Woodbine formation**
(Gravel, clay, and water-laid volcanic tuff)

UNCONFORMITY

Lower Cretaceous (Comanche series)

Kdq, Ku, Kds, Kp — **Trinity formation, with De Queen limestone member, Kdq. Ultima Thule gravel lentil, Ku, Dierks limestone lentil, Kds, and Pike gravel member, Kp**
(Gravel, gray sand, variegated clay, and fossiliferous limestone)

UNCONFORMITY

CARBONIFEROUS

Pennsylvanian

Ca — **Atoka formation**
(Gray sandstone and black shale)

Mississippian

Cj — **Jackfork sandstone**
(Massive gray sandstone)

Cs, Ct, Cb — **Stanley shale, with Hatton tuff lentil**
(Olive-green and black fossile shale, greenish-gray sandstone, and tuff. Beds of tuff, Ct, above Hatton tuff, Cb, are only partly represented on map)

UNCONFORMITY

DEVONIAN

Da — **Arkansas novaculite**
(Upper part mostly thin-bedded dark novaculite and dark shale; lower part massive white novaculite)

SILURIAN

Sm — **Missouri Mountain slate**
(Red and green clay slate)

UNCONFORMITY (?)

Sb — **Blaylock sandstone**
(Gray sandstone and buff to dark shale)

UNCONFORMITY (?)

ORDOVICIAN

Opc — **Polk Creek shale**
(Black carbonaceous shale; in part siliceous)

Obf — **Bigfork chert**
(Thin-bedded gray to black chert much shattered; some black shale)

Ow — **Womble shale**
(Black and green banded shale with lenses of bluish limestone near top. Base not traceable west of Womble)

Oby — **Blakely sandstone**
(Gray sandstone and black and green shale; sandstone beds thin out at Womble; the shale west of Womble is not traceable and is mapped with the Womble and Mazarn shales)

Om — **Mazarn shale**
(Black and green banded shale with thin lenses of limestone)

ORDOVICIAN (?)

Oc — **Crystal Mountain sandstone**
(Coarse-grained massive gray and brown sandstone)

UNCONFORMITY

CAMBRIAN

Ꞓc — **Collier shale**
(Bluish-black soft crumpled shale and dark fine-grained limestone)

IGNEOUS ROCKS

CRETACEOUS

p — **Peridotite**
(Exposed near Murfreesboro; includes three types—1, intrusive peridotite; 2, volcanic breccia; 3, tuff and fine-grained breccia)

Synclinal axis

a, b, c, d — **Strike and dip**
(a, normal; b, overturned; c, horizontal; d, vertical)

Faults

ECONOMIC DATA

× pm — Pyrite and marcasite prospect

× tr — Tripoli prospect

× sl — Slate quarry and prospect

⚒ q — Quartz crystal mine

⚒ × m — Manganese mine and prospect

⚒ × as — Asphalt mine and prospect

⚒ × d — Diamond mine and prospect

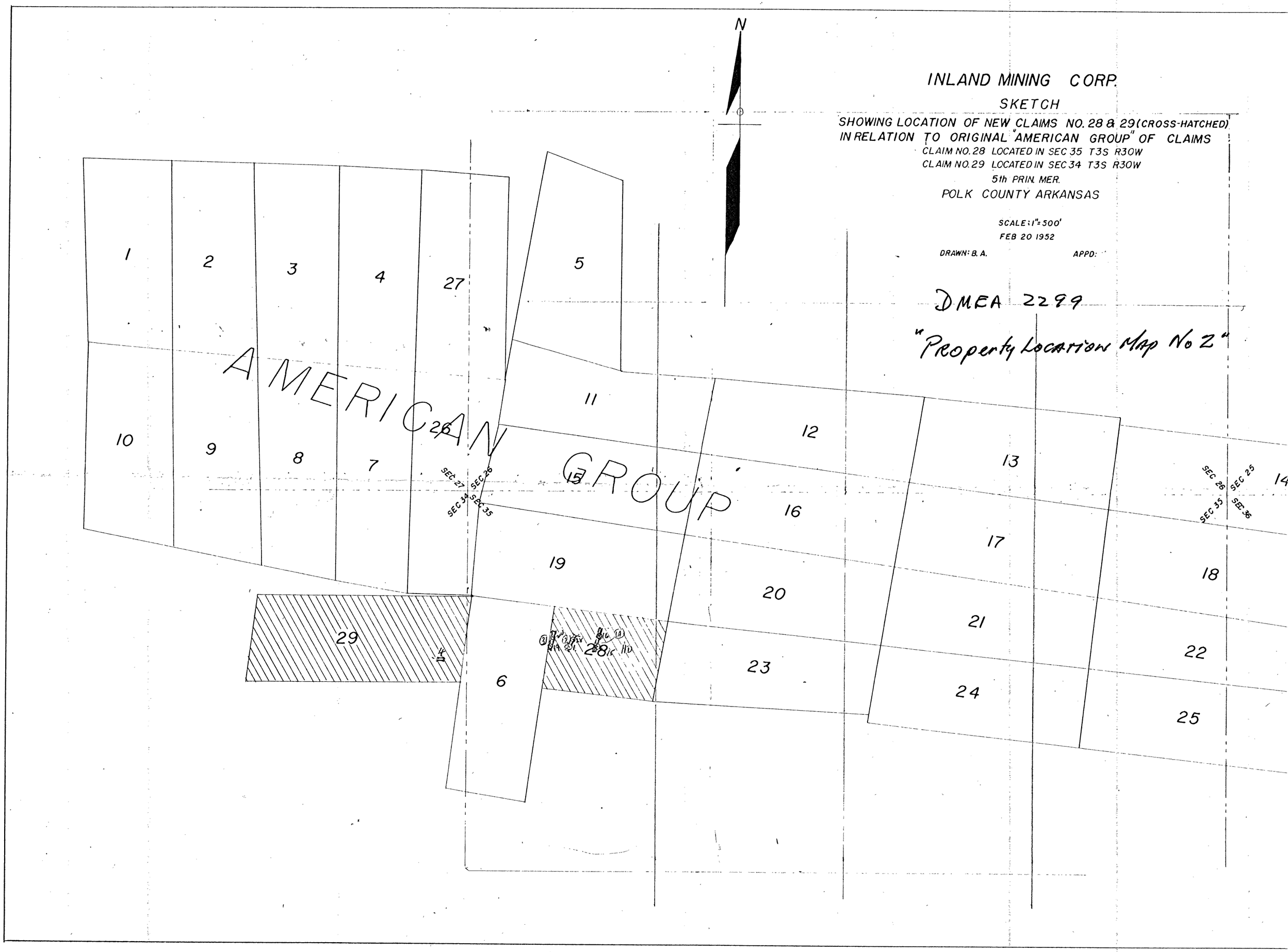
⚒ × lz — Lead and zinc mine and prospect

× c — Copper prospect

× g — Gypsum prospect

× b — Railroad ballast quarry and pit

× a — Antimony mine and prospect


N
INLAND MINING CORP.
SKETCH
SHOWING LOCATION OF NEW CLAIMS NO. 28 & 29 (CROSS-HATCHED)
IN RELATION TO ORIGINAL "AMERICAN GROUP" OF CLAIMS
CLAIM NO. 28 LOCATED IN SEC 35 T3S R30W
CLAIM NO. 29 LOCATED IN SEC 34 T3S R30W
5th PRIN. MER.
POLK COUNTY ARKANSAS
SCALE: 1" = 500'
FEB 20 1952
DRAWN: B. A.
APPD:
DMEA 2299
"Property Location Map No 2"
AMERICAN GROUP
1
2
3
4
27
5
10
9
8
7
26
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
6
28
29
SEC 27
SEC 26
SEC 34
SEC 35
SEC 26
SEC 25
SEC 35
SEC 36

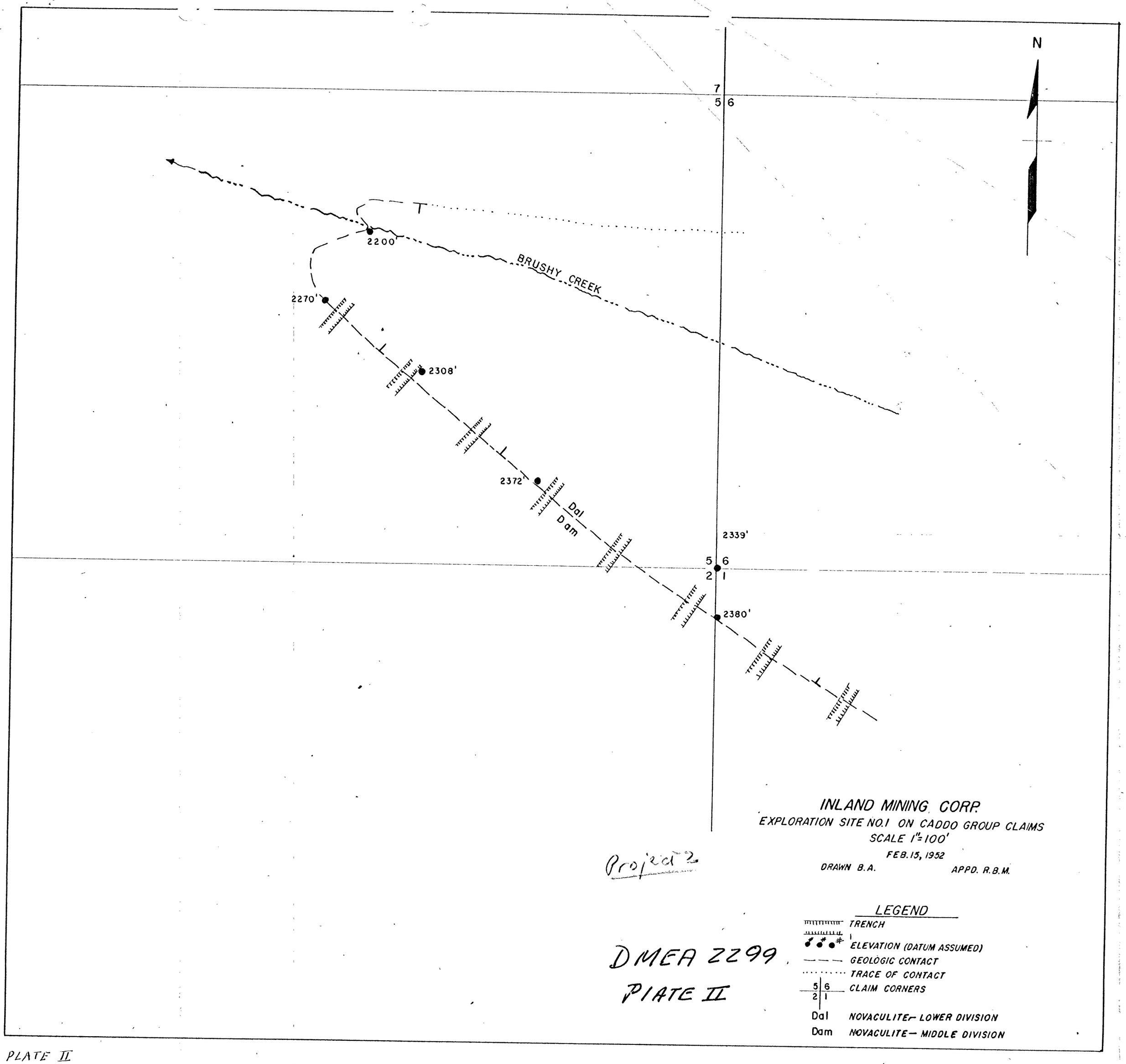
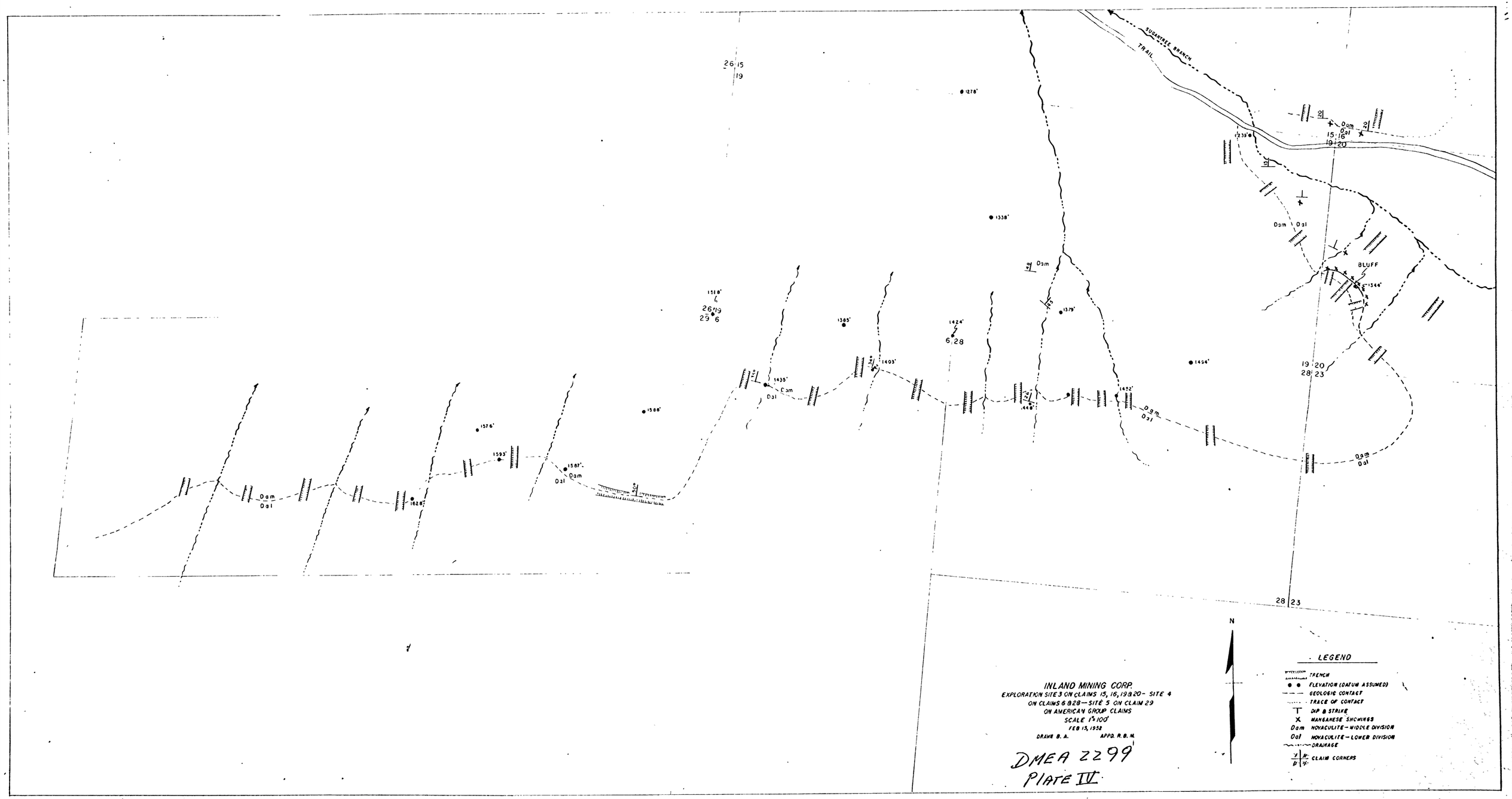

N
7
5 6
2200'
BRUSHY CREEK
2270'
2308'
2372'
Dal
Dam
2339'
5 6
2 1
2380'
INLAND MINING CORP.
EXPLORATION SITE NO.1 ON CADDO GROUP CLAIMS
SCALE 1"=100'
FEB. 15, 1952
DRAWN B.A.
APPD. R.B.M.
Project 2
LEGEND
TRENCH
ELEVATION (DATUM ASSUMED)
GEOLOGIC CONTACT
TRACE OF CONTACT
5 6
2 1
CLAIM CORNERS
Dal NOVACULITE- LOWER DIVISION
Dam NOVACULITE— MIDDLE DIVISION
DMEA 2299
PLATE II

PLATE II

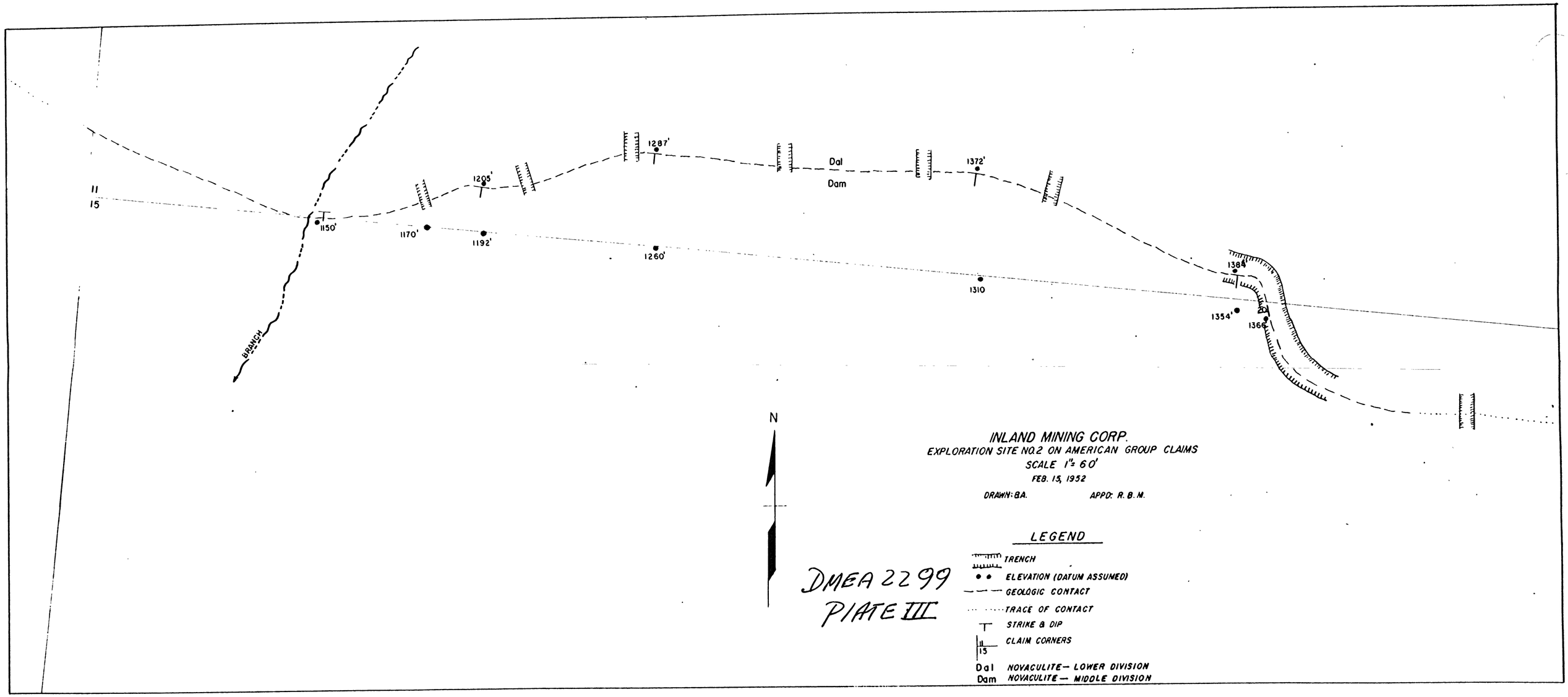
TRAIL
SUGARTREE BRANCH
1278'
1239
1338
Dam
Dal
BLUFF
1344
1379
1385
1424
1494
1403
1435
1448
1452
1518
1588
1576
1593
1587
1628
29
26
19
5
6
28
20
15
16
14
23
N
INLAND MINING CORP
POLK COUNTY, ARKANSAS
MONTHLY PROGRESS SKETCH MAP
SHOWING WORK DONE TO DATE ON SITES 4 & 5 ON
CLAIMS 28 & 29, ADJACENT TO AMERICAN GROUP CLAIMS
D.M.E.A. PROJECT NO. 2299
APRIL 30, 1952
SCALE 1" = 100'
DRAWN B.A.
APPD. R.B.M.
LEGEND
TRENCH
ELEVATION (DATUM ASSUMED)
GEOLOGIC CONTACT
TRACE OF CONTACT
DIP & STRIKE
MANGANESE SHOWINGS
Dam NOVACULITE MIDDLE DIVISION
Dal NOVACULITE LOWER DIVISION
DRAINAGE
CLAIM CORNERS
BULLDOZER TRAIL
TRENCH NUMBER

PLATE IV A



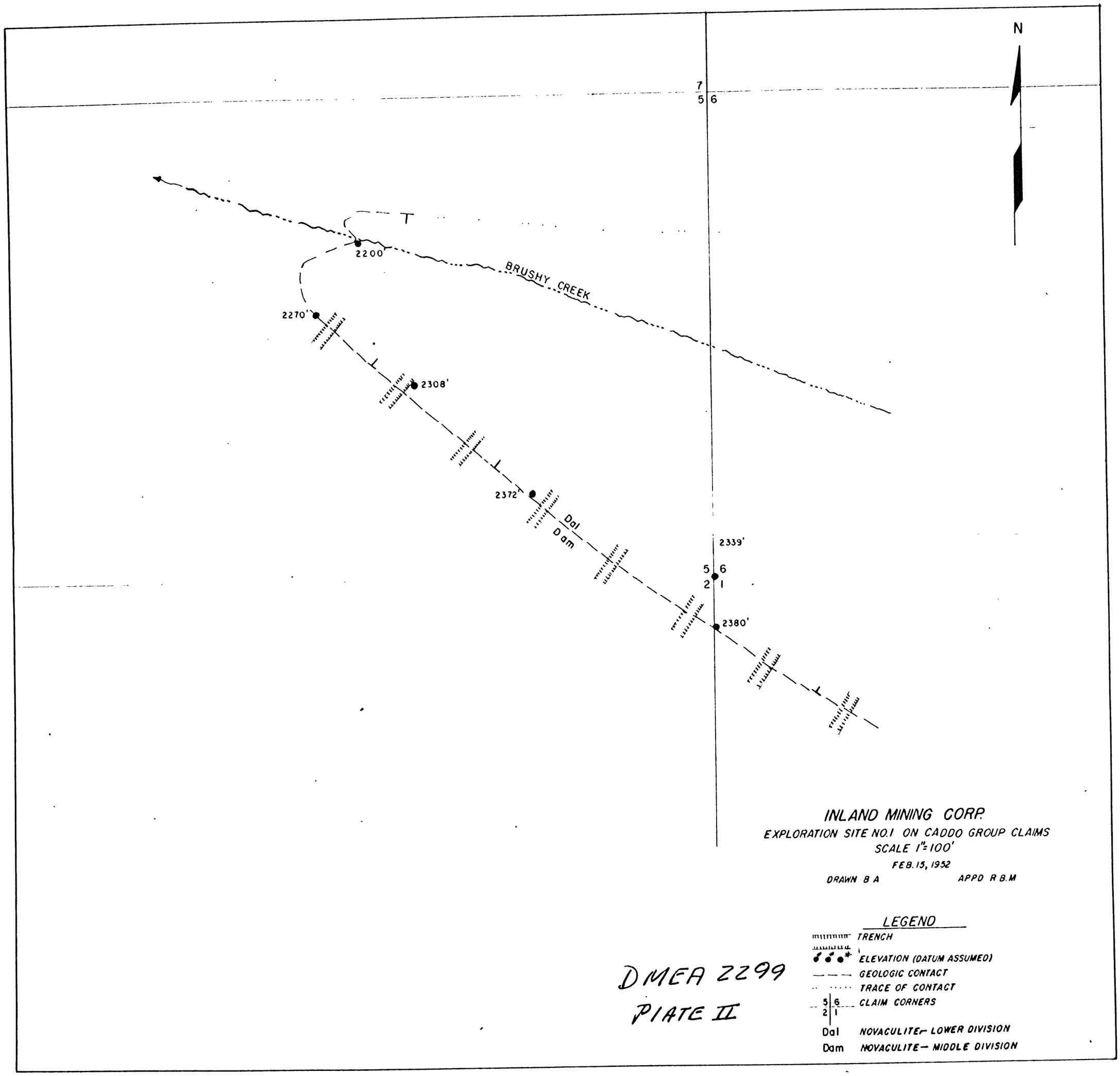
DMEA 2299
PLATE IV

PLATE IV



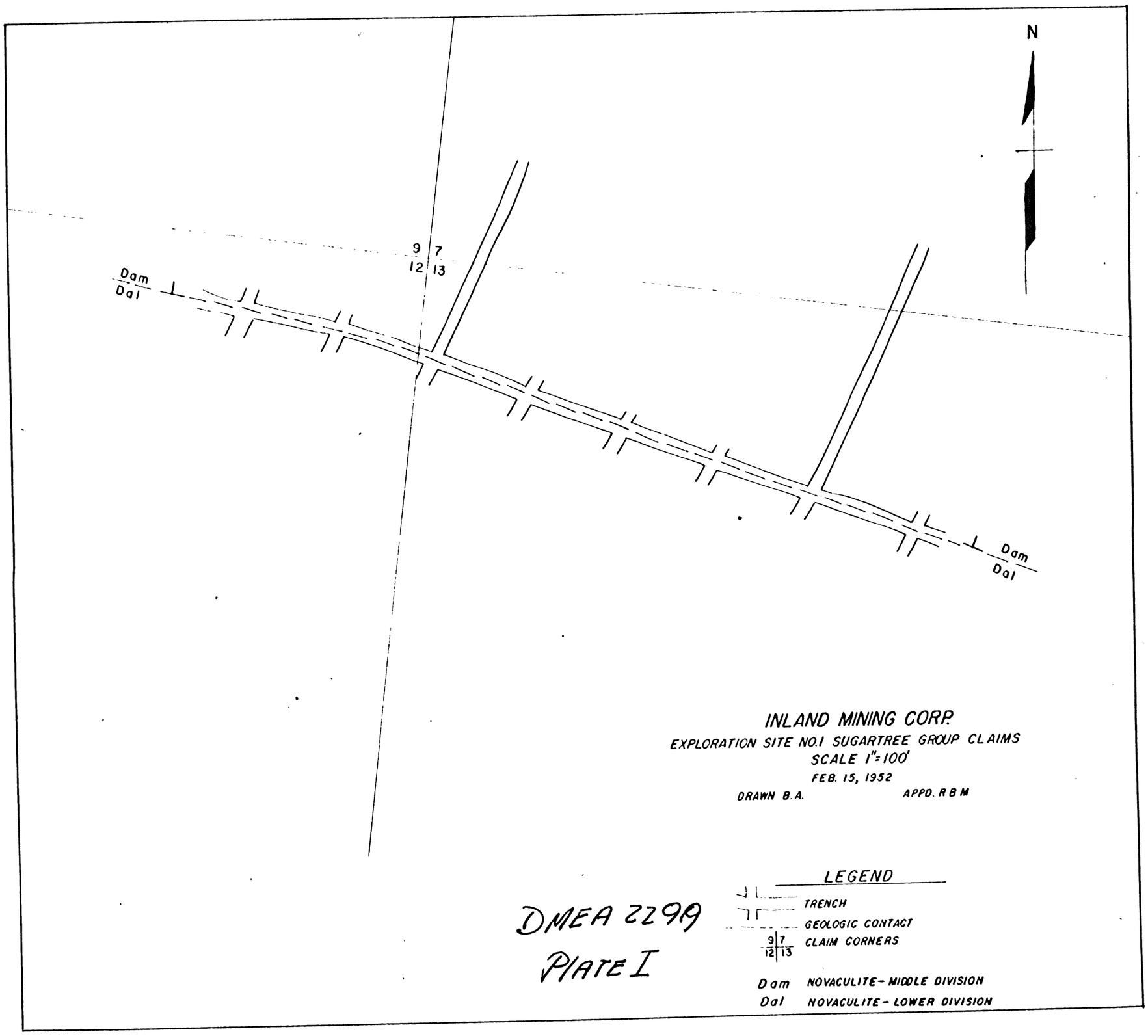
DMEA 2299
PLATE III

PLATE III



DMEA 2299
PLATE II

PLATE II



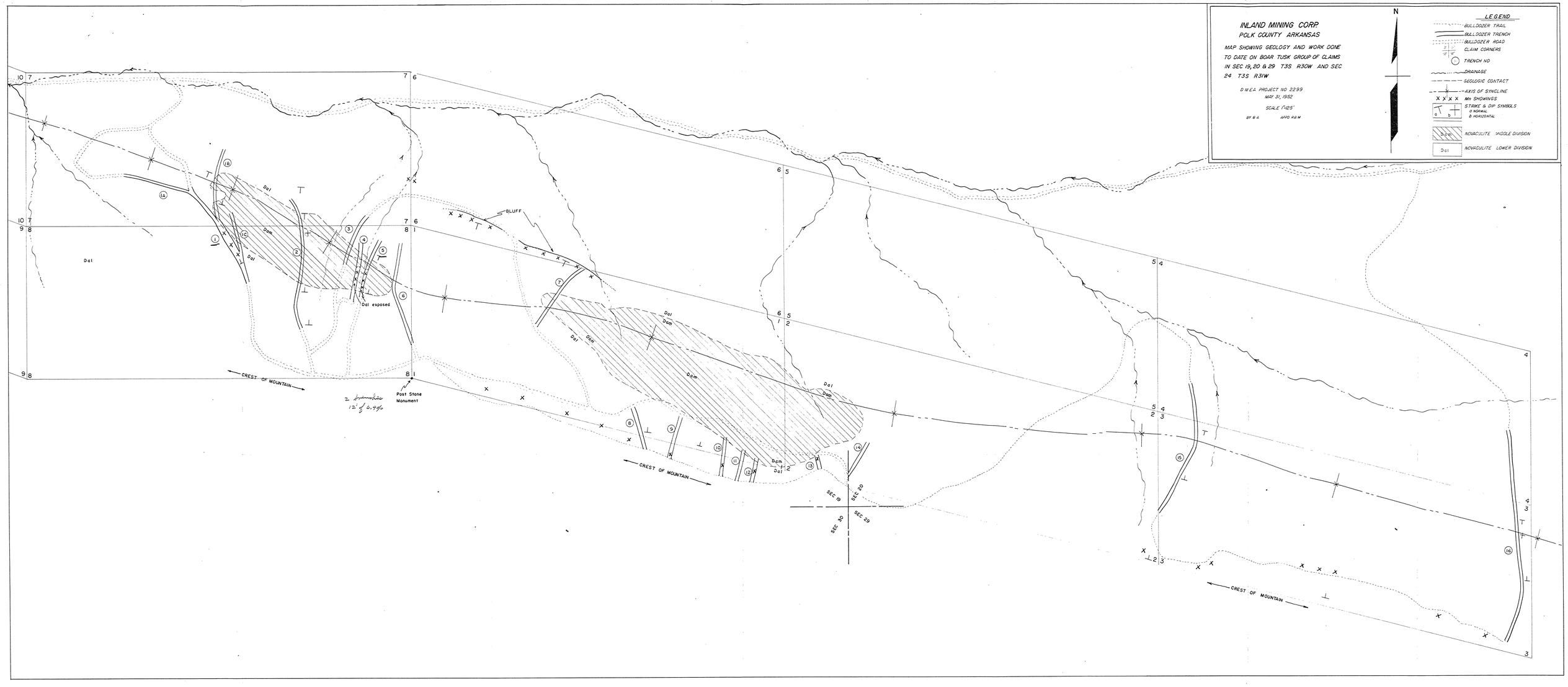
DMEA 2299

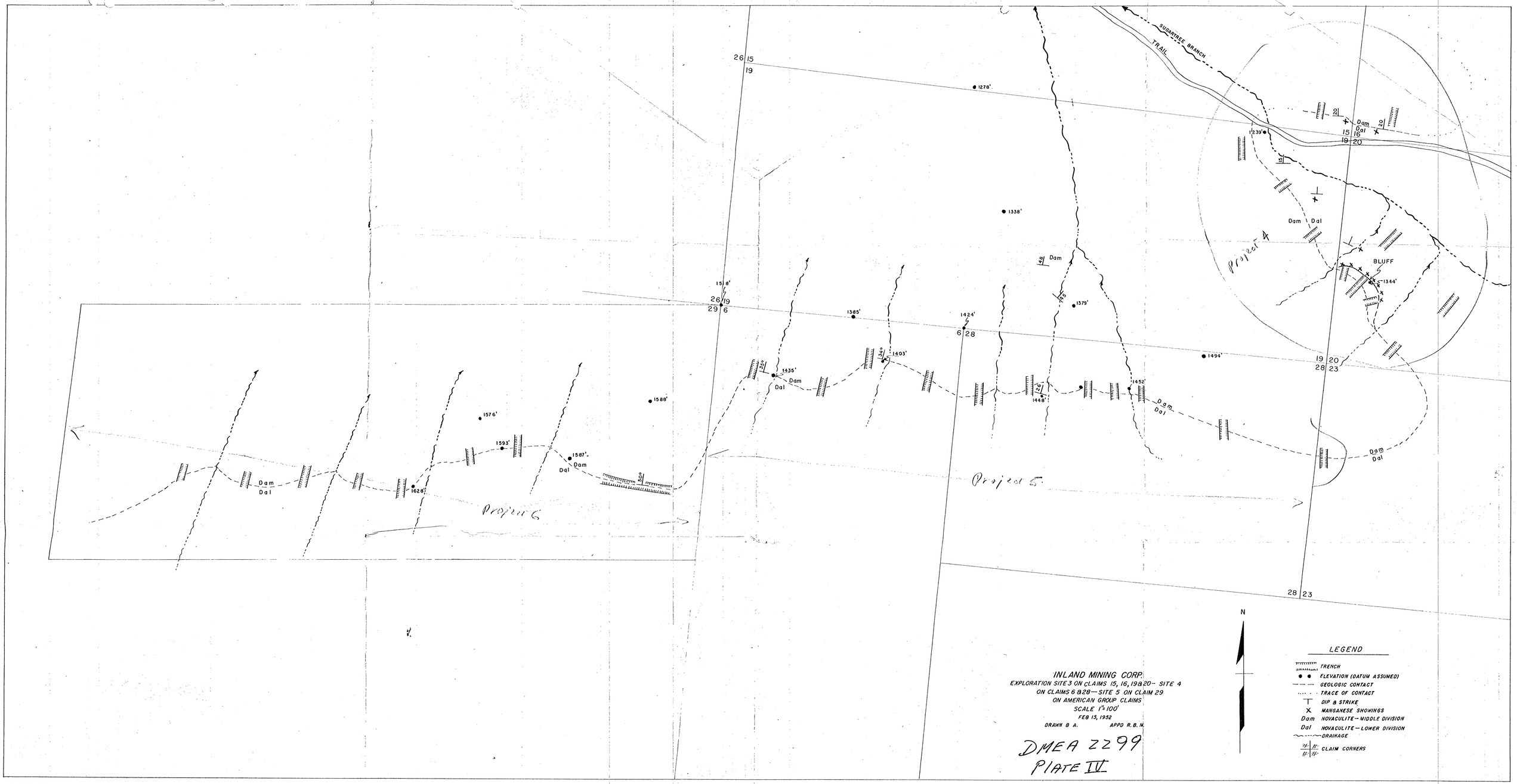
PLATE I

PLATE I

I

attached to ltr. of
1-23-52 to Mittendorf
from R. McElwaine

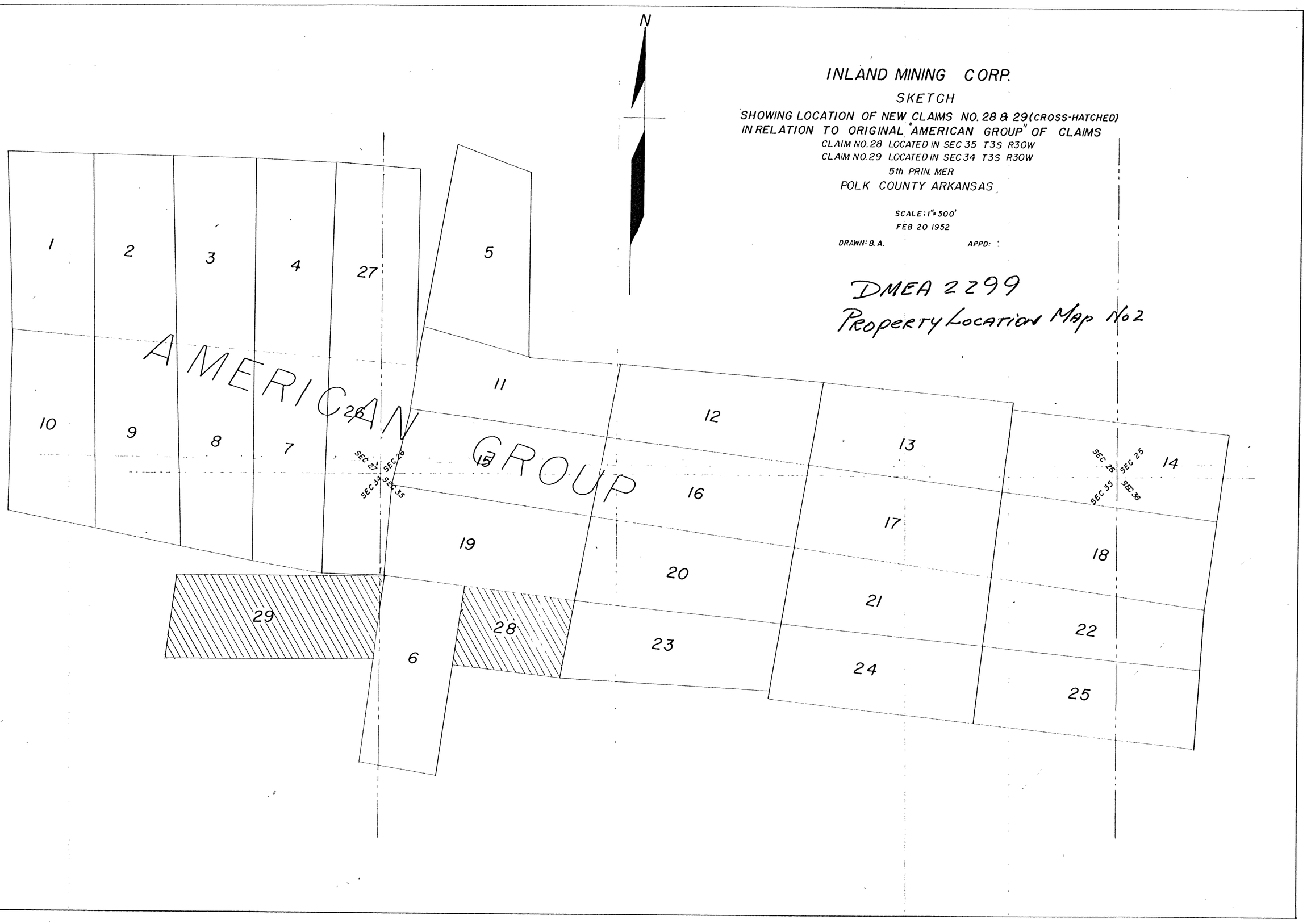

INLAND MINING CORP.
POLK COUNTY ARKANSAS
MAP SHOWING GEOLOGY AND WORK DONE TO DATE ON BOAR TUSK GROUP OF CLAIMS IN SEC 19, 20 & 29 T3S R30W AND SEC 24 T3S R31W
D M E A PROJECT NO 2299
MAR 31, 1952
SCALE 1"=25'
BY B.A.
APPD H.B.M.
N
LEGEND
BULLDOZER TRAIL
BULLDOZER TRENCH
BULLDOZER ROAD
CLAIM CORNERS
TRENCH NO
DRAINAGE
GEOLOGIC CONTACT
AXIS OF SYNCLINE
Mn SHOWINGS
STRIKE & DIP SYMBOLS
a NORMAL
b HORIZONTAL
Dcm NOVACULITE MIDDLE DIVISION
Dcl NOVACULITE LOWER DIVISION
Dcl
Dcm
Dcl exposed
BLUFF
CREST OF MOUNTAIN
Post Stone Monument
SEC 19
SEC 20
SEC 30
SEC 29



INLAND MINING CORP.
EXPLORATION SITE 3 ON CLAIMS 15, 16, 19 & 20 – SITE 4
ON CLAIMS 6 & 28 — SITE 5 ON CLAIM 29
ON AMERICAN GROUP CLAIMS
SCALE 1" = 100'
FEB 13, 1952
DRAWN B A. APPD R.B.M.

DMEA 2299
PLATE IV

PLATE IV


N
INLAND MINING CORP.
SKETCH
SHOWING LOCATION OF NEW CLAIMS NO. 28 & 29 (CROSS-HATCHED)
IN RELATION TO ORIGINAL "AMERICAN GROUP" OF CLAIMS
CLAIM NO. 28 LOCATED IN SEC 35 T3S R30W
CLAIM NO. 29 LOCATED IN SEC 34 T3S R30W
5th PRIN. MER
POLK COUNTY ARKANSAS
SCALE: 1" = 500'
FEB 20 1952
DRAWN: B. A.
APPD:
DMEA 2299
Property Location Map No 2
AMERICAN GROUP
1
2
3
4
27
5
10
9
8
7
26
11
12
13
14
15
16
17
18
19
20
21
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23
24
25
6
28
29
SEC 27
SEC 26
SEC 34
SEC 35
SEC 26
SEC 25
SEC 35
SEC 36

INLAND MINING CORP.

SKETCH
SHOWING LEASED MINING CLAIMS IN POLK COUNTY, ARKANSAS
JULY 30, 1952

SCALE 1" = 2640'
DRAWN B. A.

N

BALDFF GROUP
GOLD BUG GROUP
BOAR TUSK GROUP
SMOKE ROCK GROUP
CADDO GROUP
COSSATOT GROUP
NEW FIND GROUP
AMERICAN
AUSTIN GROUP
SUGARTREE GROUP
SUGARSTICK GROUP
SHORT CREEK GROUP
MOODY GROUP
HURRICANE BILL GROUP
COON CREEK GROUP
BIG MT. TOWER
EAGLE MT. TOWER
COSSATOT RIVER
COSSATOT ROAD
BRUSHY ROAD
BRUSHY CREEK
SHORT ROAD
MINE CREEK
MINE CREEK ROAD
SUGAR CREEK
SHORT CREEK
TO MENA 6 MILES
TO ALBERT
TO SHORT CREEK
R 31 W
R 30 W
R 29 W
R 28 W
R 27 W
T 3 S
T 4 S
POLK COUNTY
MONTGOMERY COUNTY

See DMEA 2716 Nelrobb Min. Corp.

See DMEA 590 Duncan, Dickman & Duncan Mining Co.

See DMEA 2745 Apex Mining & Milling Co., Inc.

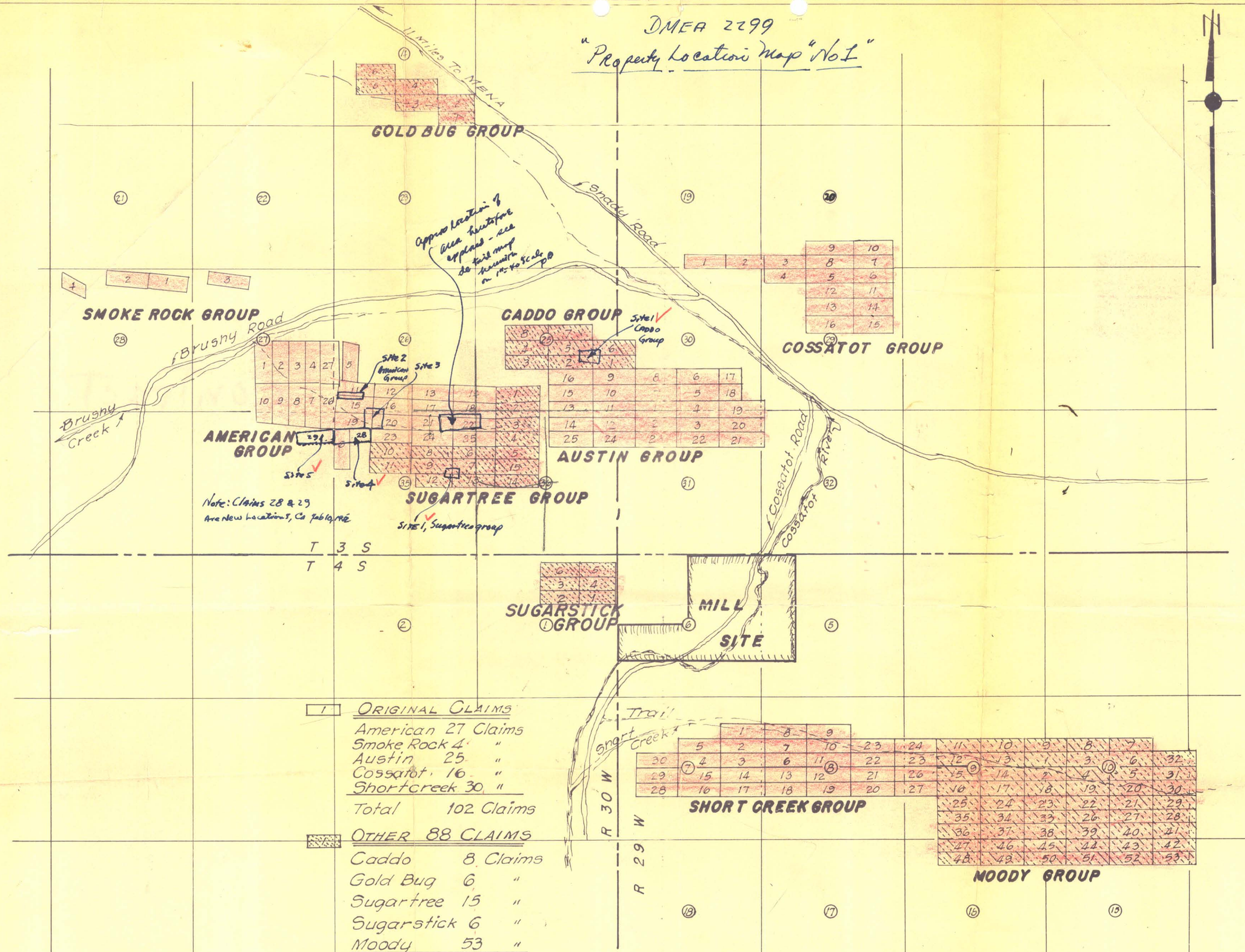
NOTE:
DASHED LINE - - - - - - DENOTES TRAIL ROAD, PASSABLE BY JEEP.

This map must belong with the Docket OMEA2000 with additional data provided to supplement the application after the the contract was written
WSM
3/29/57

DMEA-2299

DMEA 2299

"Property Location Map" No 1"



	ORIGINAL CLAIMS	
	American	27 Claims
	Smoke Rock	4 "
	Austin	25 "
	Cossatot	16 "
	Shortcreek	30 "
	Total	102 Claims
	OTHER 88 CLAIMS	
	Caddo	8 Claims
	Gold Bug	6 "
	Sugartree	15 "
	Sugarstick	6 "
	Moody	53 "
	Total	88 Claims

NOTE: OTHER 88 CLAIMS ARE CLAIMS OF CHENOWETH MINES AND METALS LTD

INLAND MINING CORPN
SKETCH

SHOWING MINING CLAIMS IN POLK COUNTY ARKANSAS

O.C.E. LANDS MENA ARK 11-2-51

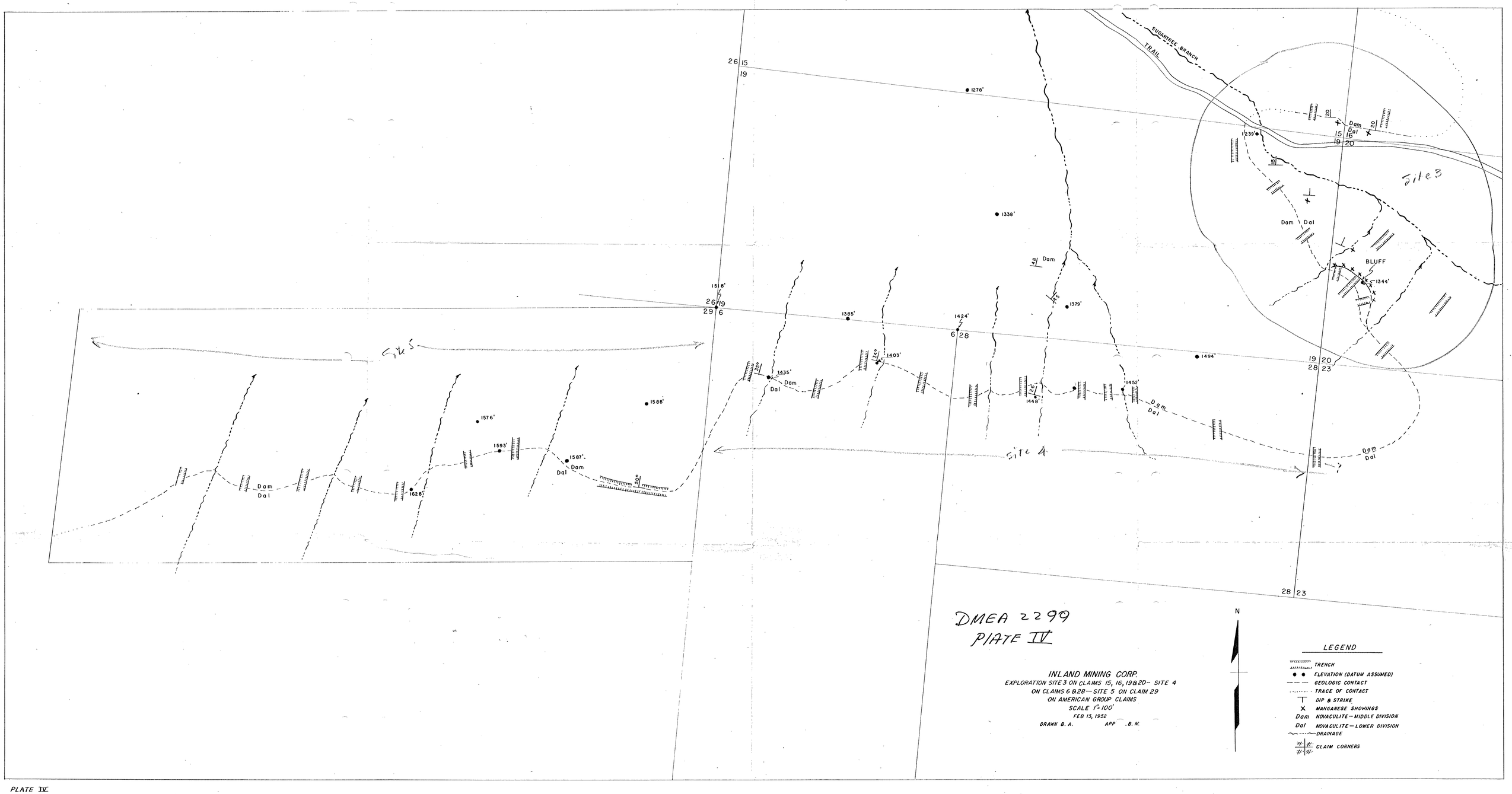
SCALE 1" = 2640'

Property Map No. 1

Contract
No 1

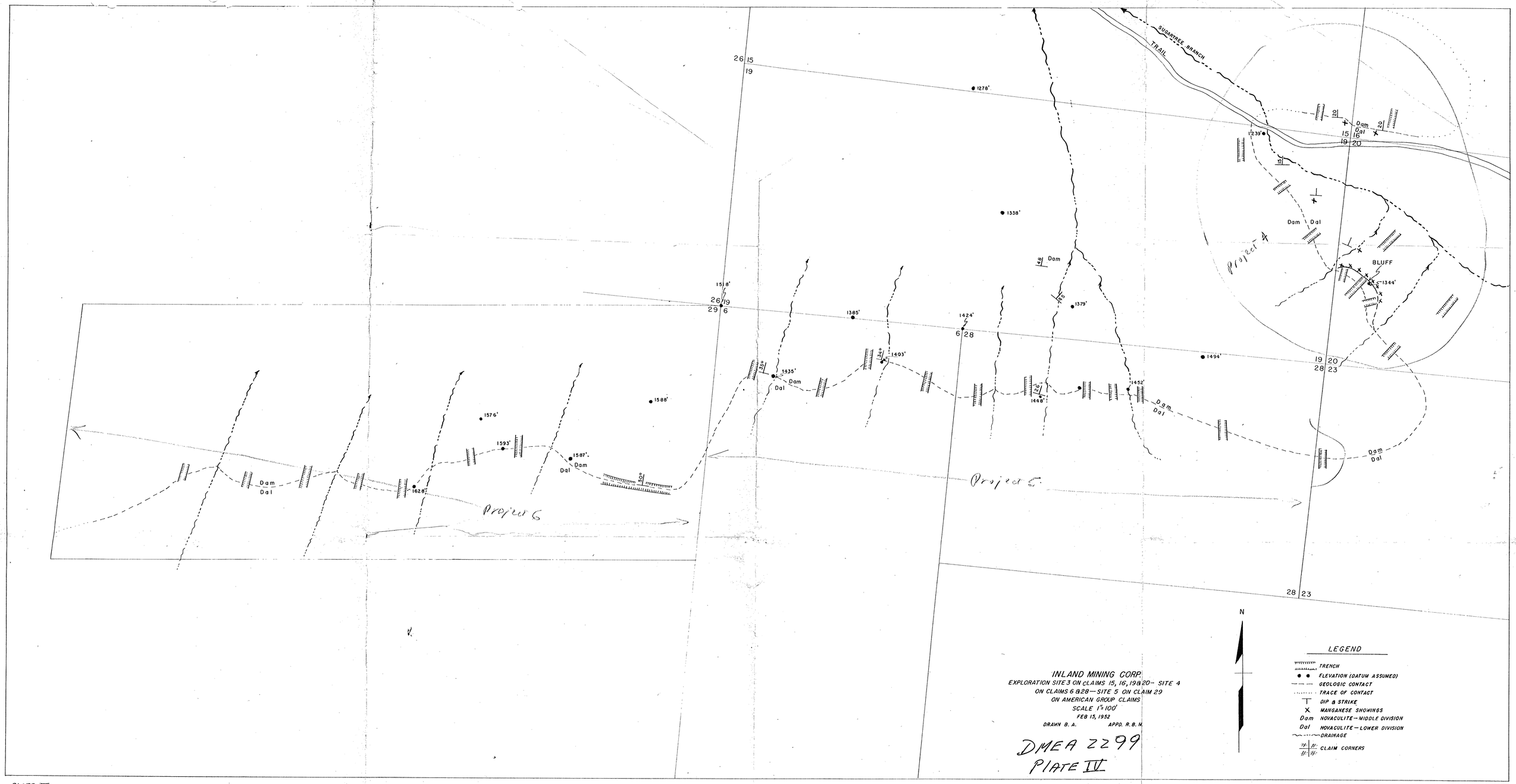
190.62
109.38
300.00

Docket 2299 –
Inland Mining Co
Contract calls for –
Property location
Map No. 1
" " " 2
Plat I – (Superior)
Plat II (Cadelo)
Plat III (American)
(not a part of contract)
Plat IV American



DMEA 2299
PLATE IV

INLAND MINING CORP.
EXPLORATION SITE 3 ON CLAIMS 15, 16, 19 & 20— SITE 4
ON CLAIMS 6 & 28— SITE 5 ON CLAIM 29
ON AMERICAN GROUP CLAIMS
SCALE 1" = 100'
FEB 15, 1952
DRAWN B. A. APP B. M.



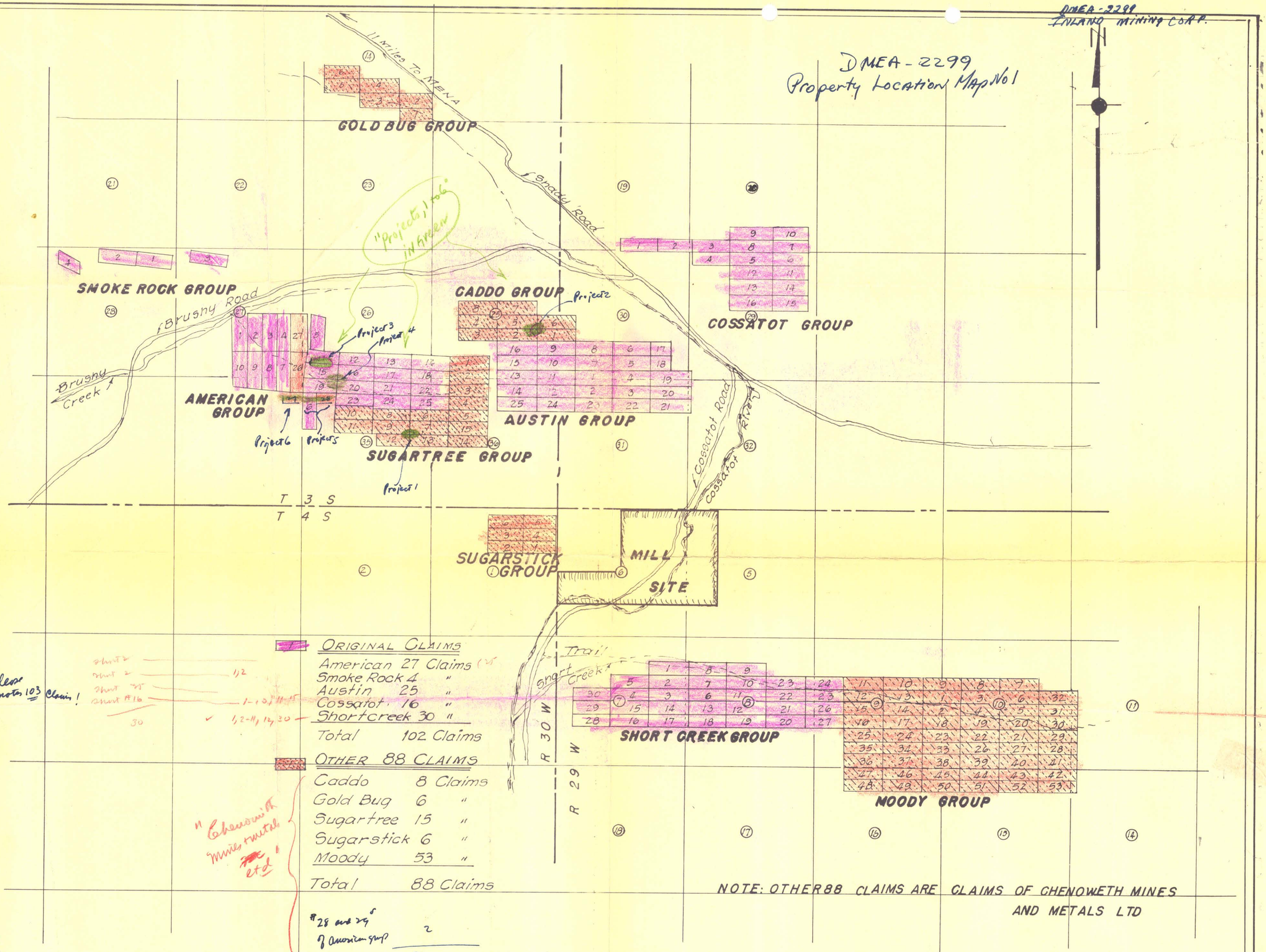
INLAND MINING CORP.
EXPLORATION SITE 3 ON CLAIMS 15, 16, 19 & 20 – SITE 4
ON CLAIMS 6 & 28 — SITE 5 ON CLAIM 29
ON AMERICAN GROUP CLAIMS
SCALE 1" = 100'
FEB 13, 1952
DRAWN B. A. APPD. R. B. M.

DMEA 2299
PLATE IV

PLATE IV

DMEA-2299
INLAND MINING CORP.

DMEA-2299
Property Location Map No 1



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Moody	53 "
Total	88 Claims

"Chenoweth Mines Ltd"

#28 and 29 of American group 2

90 "

less note 103 Claim!

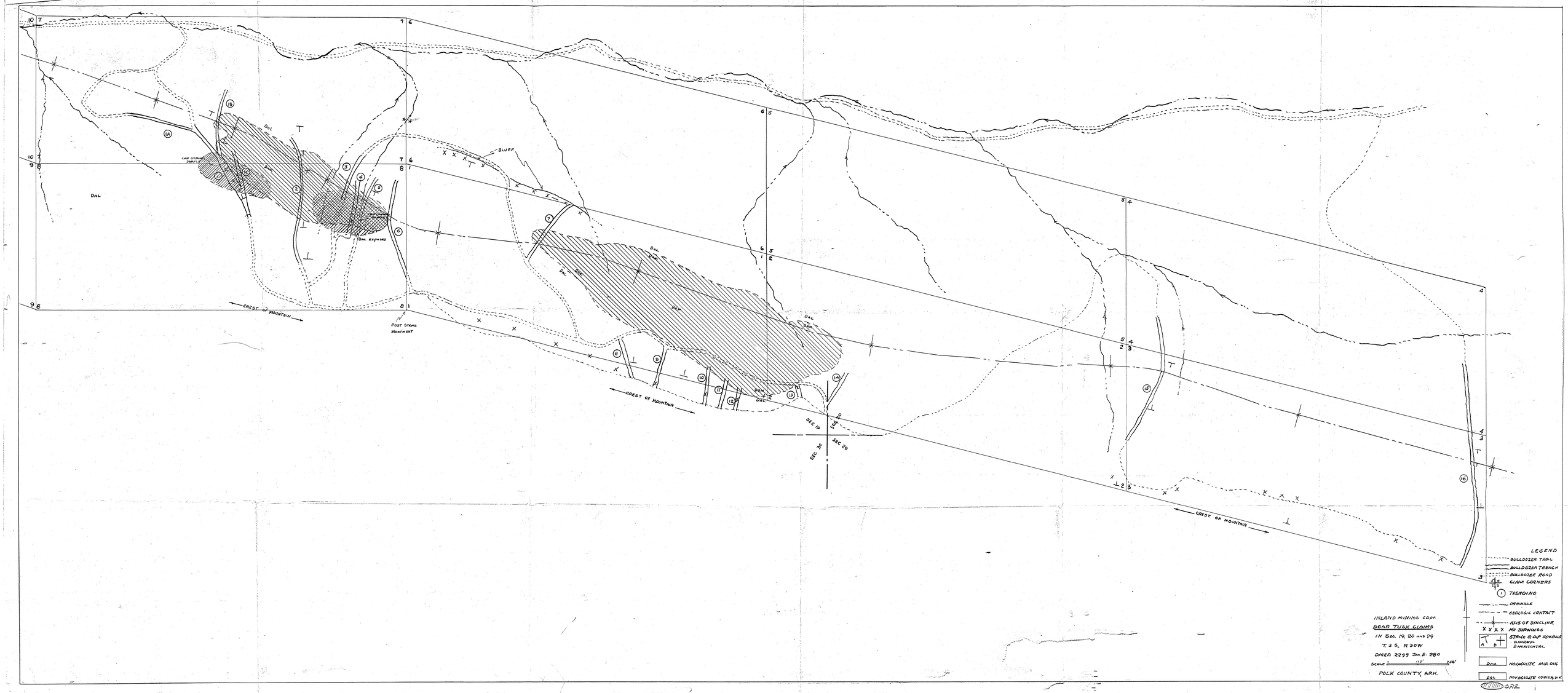
NOTE: OTHER 88 CLAIMS ARE CLAIMS OF CHENOWETH MINES AND METALS LTD

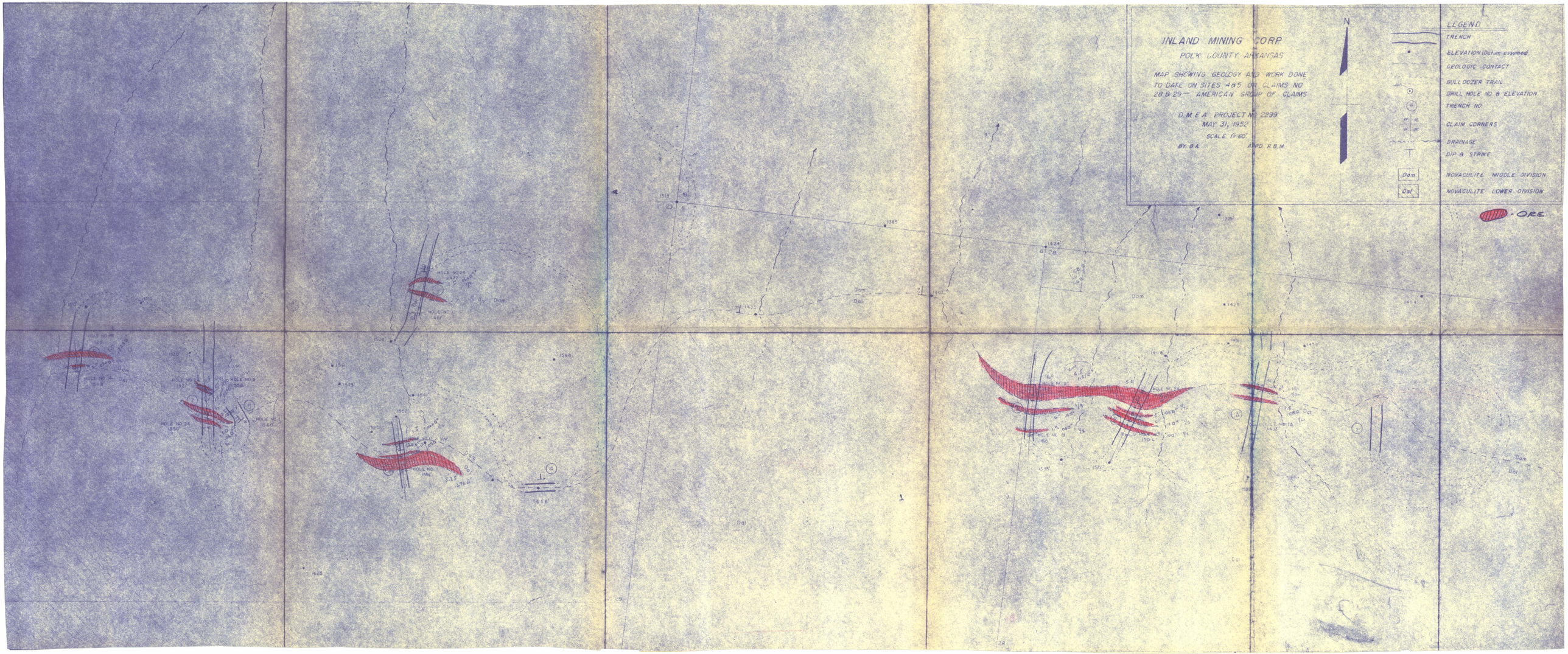
INLAND MINING CORPN
SKETCH

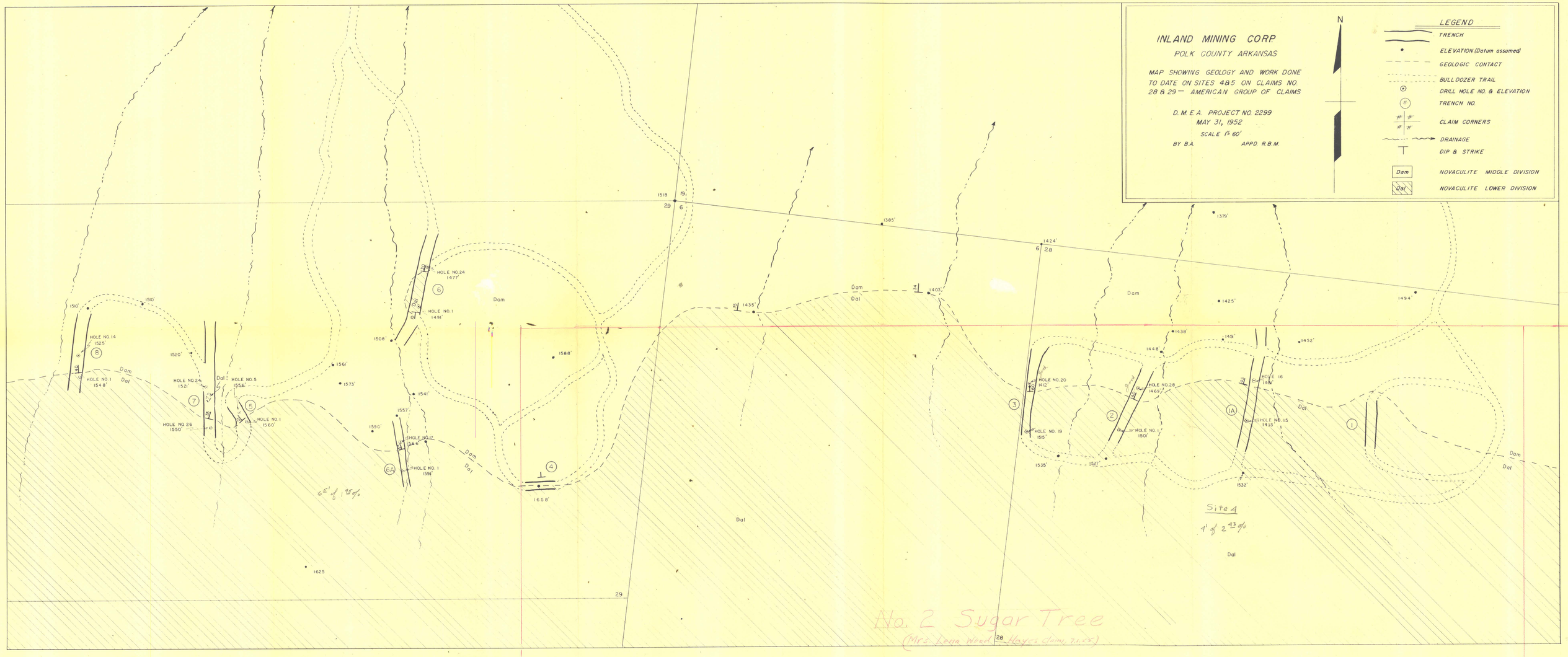
SHOWING MINING CLAIMS IN POLK COUNTY ARKANSAS

O.C.E. LANDS MENA ARK 11-2-51

SCALE 1" = 2640'


CHG DIAMOND DRILL
DAL
DAL EXPOSED
BLUFF
CREST OF MOUNTAIN
POST STONE MONUMENT
SEC 19
SEC 20
SEC 30
SEC 29
LEGEND
BULLDOZER TRAIL
BULLDOZER TRENCH
BULLDOZER ROAD
CLAIM CORNERS
TRENCHING
DRAINAGE
GEOLOGIC CONTACT
AXIS OF SYNCLINE
NO SURVINGS
STRIKE & DIP SYMBOLS
HORIZONTAL
HOYACULITE MINE DIG
HOYACULITE CORE DIG
INLAND MINING CORP.
BOAR TUSK CLAIMS
IN SEC. 19, 20 AND 29
T 3 S, R 30W
DMER 2299 IN E. 280
SCALE
POLK COUNTY, ARK.


INLAND MINING CORP
POLK COUNTY ARKANSAS
MAP SHOWING GEOLOGY AND WORK DONE TO DATE ON SITES 4 & 5 ON CLAIMS NO 28 & 29 — AMERICAN GROUP OF CLAIMS
D.M.E.A. PROJECT NO 2299
MAY 31, 1952
SCALE 1" = 60'
BY: B.A.
APPD. R.B.M.
N
LEGEND
TRENCH
ELEVATION (Datum assumed)
GEOLOGIC CONTACT
BULLDOZER TRAIL
DRILL HOLE NO & ELEVATION
TRENCH NO
CLAIM CORNERS
DRAINAGE
DIP & STRIKE
Dam NOVACULITE MIDDLE DIVISION
Dal NOVACULITE LOWER DIVISION
ORE


INLAND MINING CORP
POLK COUNTY ARKANSAS
MAP SHOWING GEOLOGY AND WORK DONE TO DATE ON SITES 4 & 5 ON CLAIMS NO. 28 & 29 — AMERICAN GROUP OF CLAIMS
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LEGEND
TRENCH
ELEVATION (Datum assumed)
GEOLOGIC CONTACT
BULLDOZER TRAIL
DRILL HOLE NO. & ELEVATION
TRENCH NO.
CLAIM CORNERS
DRAINAGE
DIP & STRIKE
Dam NOVACULITE MIDDLE DIVISION
Dal NOVACULITE LOWER DIVISION
HOLE NO. 14 1525'
HOLE NO. 1 1548'
HOLE NO. 24 1521'
HOLE NO. 26 1550'
HOLE NO. 5 1556'
HOLE NO. 1 1560'
HOLE NO. 24 1477'
HOLE NO. 1 1491'
HOLE NO. 17 1566'
HOLE NO. 1 1591'
HOLE NO. 20 1412'
HOLE NO. 19 1515'
HOLE NO. 28 1469'
HOLE NO. 1 1501'
HOLE 16 1493'
HOLE NO. 15 1493'
Site 4
4' of 2.43%
6.5' of 1.85%
No. 2 Sugar Tree
(Mrs. Lena Wood Hayes Claim 71.25)