Standard Form No. 1034
7 GAO 5000
1034-110

PUBLIC VOUCHER FOR PURCHASES AND SERVICES OTHER THAN PERSONAL

U.S. DEPARTMENT, BUREAU, OR ESTABLISHMENT AND LOCATION

U.S. Department of Interior
Geological Survey
Washington, D.C. 20242

DATE VOUCHER PREPARED: December 13, 1967

CONTRACT NUMBER AND DATE: 14-23-090-2236 Feb. 6, 1967

REQUISITION NUMBER AND DATE: OME-6415

VOUCHER NUMBER: 84021

PAID BY

PAYEE'S NAME AND ADDRESS:
Rheco-Lenado, Inc.
P. O. Box 939
Aspen, Colorado 81611

DATE INVOICE RECEIVED

DISCOUNT TERMS

PAYEE'S ACCOUNT NUMBER

SHIPPED FROM | TO | WEIGHT

GOVERNMENT B/L NUMBER

NUMBER AND DATE OF ORDER	DATE OF DELIVERY OR SERVICE	ARTICLES OR SERVICES (Enter description, item number of contract or Federal supply schedule, and other information deemed necessary)	QUANTITY	UNIT PRICE COST	UNIT PRICE PER	AMOUNT (1)
		Payment for items suspended on vouchers for period June 1967 and July 1967. Sch. # 81339 & 82672.				
		Payroll taxes				$ 128.54
		Casing lost in hole	42	3.00	ft.	126.00
						$254.54
		Government participation 75%				$ 190.90

(Use continuation sheet(s) if necessary) (Payee must NOT use the space below) TOTAL $ 190.90

PAYMENT:
- [ ] COMPLETE
- [ ] PARTIAL
- [ ] FINAL
- [ ] PROGRESS
- [ ] ADVANCE

APPROVED FOR = $

EXCHANGE RATE = $1.00

BY (2)

TITLE

DIFFERENCES

Amount verified; correct for

(Signature or initials) JLm

Pursuant to authority vested in me, I certify that this voucher is correct and proper for payment.

(Date) (Authorized Certifying Officer) (2) (Title)

ACCOUNTING CLASSIFICATION (Appropriation symbol must be shown; other classification optional)

POSTED 12/21/67

14X0804

PAID BY

CHECK NUMBER ON TREASURER OF THE UNITED STATES

CHECK NUMBER ON (Name of bank)

CASH $

DATE

PAYEE (3)

PER

TITLE

When stated in foreign currency, insert name of currency.
If the ability to certify and authority to approve are combined in one person, one signature only is necessary; otherwise the approving officer will sign in the space provided, over his official title.
When a voucher is 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.

* GPO : 1963 OF—653281—16-C

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON, D.C. 20242

Memorandum

To: Budget and Finance

From: Assistant Chief
Office of Minerals Exploration

Subject: OME-6415 (Silver)
Richmond Hill Exploration, Inc.
RHECO - Lenado Area
Pitkin County, Colorado
Contract 2236

Enclosed is a letter of November 20, 1967 from the Operator reclaiming two items of costs, one each from the June and July 1967 vouchers, which had been disallowed. The original Suspension Statement for June was returned last month and is now in your files; the Statement for July is enclosed.

The two items are as follows:

1. June: $128.54 for FICA etc., disallowed for lack of documentation, which was subsequently furnished with the July voucher.

2. July: $126.00 for lost casing, disallowed because it was not certain whether casing was lost or left in hole at Operator's request. This question is answered in the enclosed letter.

Both items are actual and allowable costs, and are now proper for payment in the amounts specified above. We suggest that the total of $254.54 be paid by separate check rather than included with the next regular voucher payment in order to clarify this unusually complicated account.

Harold Kirkemo

Harold Kirkemo

Enclosure

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
FEDERAL CENTER, DENVER, COLORADO 80225

Office of Minerals Exploration
Building 53 Room 200

3+ F 4/2

March 24, 1969

Memorandum

To: Acting Chief, Office of Minerals Exploration

From: Field Officer, Region III

Subject: OME-6415 (Silver)
RHECO-LENADO (Assignee)
Lenado Area
Pitkin County, Colorado
Contract 2236

Transmitted herewith are the original and two copies of the Operator's Monthly Voucher (MME Form 60) and Monthly Progress Report (MME Form 61) with supporting documents for the months of November, December, 1968 and January 1969 included in one voucher. The Operator's report of review of their work will be sent shortly as it has been transmitted to us. It is not, however, a final report as required in the subject contract under Article 5(c).

J. William Hasler

J. William Hasler,
Field Officer, Region III
Office of Minerals Exploration

Enclosures

MME FORM 60
SEPT. 1959

OFFICIAL COPY
O. M. E.
RECEIVED
APR 10 1969
INITIALS CODE

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

OPERATOR'S MONTHLY VOUCHER

For Month of January 1969

Docket No. OME-6415
Contract No. 14-23-090-2236
Contract Amount $ 78,800.00
Gov't. Participation % 75 $ 59,100.00
Mineral(s) Silver

Operator's Name RHECO-LENADO, INC.
Address P.O. BOX 1023, ASPEN, COLORADO 81611

COST CATEGORIES	FOR OPERATOR'S USE			FOR GOVERNMENT APPROVAL ONLY		
	MONTHLY TOTAL	PREVIOUSLY REPORTED	TOTALS TO DATE	MONTHLY TOTAL	PREVIOUSLY REPORTED	TOTALS TO DATE
Fixed Unit Costs and						
(1) Independent Contracts:						
Bulldozing	0	882.00	882.00			
Drifting Reaming	0	695.40	695.40			
Standby time Crosscutting	242.00	484.00	726.00			
Drilling Core	3776.20	27604.76	31380.96			
Cementing time	1800.00	8425.00	10225.00			
Moblization 100%	0	350.00	350.00			
(2) Personal Services:						
Supervision & Technical	0	7280.00	7280.00			
Outside Consultants						
Labor	0	5200.00	5200.00			
(3) Operating Mat'l. & Supplies:						
Timber						
Explosives						
Pipe						
Rail Water Haul	14.88	38.76	53.64			
Cement additives	742.50	3646.50	4389.00			
Core boxes	12.00	212.00	224.00			
In-hole Survey	246.00	552.00	816.00			800.00
Casing last hole	0	1489.86	1489.86			
(4) Operating Equipment:						
Rental Water truck	380.00	807.50	1187.50			
Purchase Survey instrument	75.00	825.00	900.00			
Depreciation Truck Driver etc.	753.24	2077.11	2830.35			
(5) Initial Rehab. & Repairs:						
Buildings, Fixtures, etc.						
Operating Equipment						
(6) New Buildings, Fixtures, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Analytical Work	607.75	2281.00	2888.75			
Payroll Taxes	0	1057.62	1057.62			
Employee's Liability Ins.						
Vehicle Milage	129.60	1546.68	1676.28			
Accounting office	120.00	553.33	673.33			
TOTALS	8917.17	66008.52	74925.66			

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

Date 8/6/69 *Payee RHECO-LENADO, INC.

Per Henry S. Stein Title Vice President

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

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

(INSTRUCTIONS ON REVERSE)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of: (63) 14X0804

$ 5912.34

Signature [illegible] (Authorized Certifying Officer)

Date APR 8 1969 Vou. No. 90848

(SEE OTHER SIDE)

MME FORM 60
SEPT. 1959

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Docket No. _____
Contract No. _____

OPERATOR'S MONTHLY VOUCHER

For Month of _____

Contract Amount $ _____
Gov't. Participation % _____ $ _____
Mineral(s) _____

Operator's Name _____
Address _____

COST CATEGORIES	FOR OPERATOR'S USE			FOR GOVERNMENT APPROVAL ONLY		
	MONTHLY TOTAL	PREVIOUSLY REPORTED	TOTALS TO DATE	MONTHLY TOTAL	PREVIOUSLY REPORTED	TOTALS TO DATE
Fixed Unit Costs and						
(1) Independent Contracts:						
Bulldozing						
Drifting						
Crosscutting						
Drilling						
(2) Personal Services:						
Supervision & Technical						
Outside Consultants						
Labor						
(3) Operating Mat'l. & Supplies:						
Timber						
Explosives						
Pipe						
Rail						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehab. & Repairs:						
Buildings, Fixtures, etc.						
Operating Equipment						
(6) New Buildings, Fixtures, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Analytical Work						
Payroll Taxes						
Employee's Liability Ins.						
TOTALS						

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

Date _____ *Payee _____

Per _____ Title _____

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

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

(INSTRUCTIONS ON REVERSE)

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

$ _____

Signature _____
(Authorized Certifying Officer)

Date _____ Vou. No. _____

(SEE OTHER SIDE)

Certification by Government Representative:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating an exploration project in accordance with the terms of Contract No. 2236

Signature J. William Hasler Title Field Officer Date 3/24/69

Approved by:

Signature J. William Hasler Title Field Officer Date 3/24/69

OPERATOR'S MONTHLY REPORT

The Operator, under an Office of Minerals Exploration contract, is required to report monthly to the Government. The report consists of three parts.

FIRST, the Operator's Monthly Voucher on MME Form 60 listing the project costs incurred and claimed by the Operator is the voucher basis for payment of the Government's share of the cost.

SECOND, the Operator's Progress Report on MME Form 61 is a statistical report of the units and cost of of work performed under the contract.

THIRD, the Operator's Narrative Report is a concise description of the work performed, results accomplished, and any unusual situations encountered, illustrated and supported by engineering-geological maps or sketches, drill hole logs, assay reports, etc., as pertinent.

The Operator submits the original and four copies of each of the three sections of this report to the OME regional Field Officer at the end of each month during the life of the contract.

PREPARATION OF OPERATOR'S MONTHLY VOUCHER, MME FORM 60

After all applicable spaces are filled in, the Operator or his agent must sign the certification in the lower left corner. Categories (2) through (7) apply to "Actual Cost" contracts only.

Under "Fixed Unit Costs" and Category (1) report, (a) the total fixed unit costs of work performed under contract provisions for contribution by the Government on a basis of "fixed unit costs"; and (b) the claimed costs of work performed on a unit-price basis by independent contractors.

Under Category (2) include the claimed costs of all payrolled and invoiced supervisory, technical, and labor personnel, except the costs for services applicable to Categories (5) and (6).

Under Category (3) include the claimed costs of all project materials and supplies other than those used for work under Categories (5) and (6).

Under Category (4) report claimed rentals on equipment belonging to a third party, claimed payments or obligations for payments on the Operator's purchase of equipment, and claimed depreciation for the use of Operator-owned equipment.

Under Categories (5) and (6) include all claimed costs of labor, supervision, technical services, operating materials and supplies, and all other items used in (5) the initial rehabilitation and repairs of existing buildings, fixtures, installations (exclusive of mine workings), and operating equipment; and (6) the installation or construction of new buildings, fixtures, and fixed improvements (exclusive of mine workings). Do not report these costs under Categories (2), (3), (4), and (7).

Under Category (7) include all miscellaneous claimed costs such as repairs (other than initial) and maintenance of equipment, sampling and analysis, travel, communication, accounting, office expenses, and the Operator's share of payroll taxes and insurance.

Except for amounts claimed under "fixed unit costs" provisions of the contract, all costs claimed in this voucher must be supported by documentary evidence consisting of: (a) certified copies or transcripts of payrolls which list each employee, wage rate, period of employment, gross earnings, itemized deductions, and net earnings; (b) original or certified copies of invoices, statements of accounts, or purchase orders which indicate items of materials or services, quantities, unit prices, total charges, and payment terms; and (c) certified memoranda of the Operator for such items as depreciation of Operator-owned equipment, unemployment taxes, and employee's liability insurance. The certification may be stated thus, "Certified True Copy (or Transcript)", followed by the signature of the Operator or his agent. One copy of each document should accompany the original of this voucher.

The requirement for submitting documentary evidence of claimed costs may be waived by the OME regional Field Officer if he determines that it is impracticable for an Operator to submit this material. In any case of waiver of this requirement an "on-site" audit by an OME auditor is mandatory prior to payment of the final Operator's Monthly Voucher.

MME FORM 61
SEPT. 1959

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

OK-WE 4/2/69

OPERATOR'S PROGRESS REPORT

For Month of January 1969 (November & December 1968)

Docket No. OME-6415

Operator's Name RHECO-LENADO, INC.

Contract No. 14-23-090-2236

OPERATION	UNITS	FOR OPERATOR'S USE: UNITS THIS MONTH	UNITS TO DATE	COSTS TO DATE	FOR GOVERNMENT USE: APPROVED UNITS THIS MONTH	APPROVED UNITS TO DATE	APPROVED COSTS TO DATE
Labor, Asst. Salary		0		5,200.00	—	—	4,847.50
Drifting / Casing in hole							
Crosscutting	ft.	0	618	1,489.86	—	618	1,489.86
In-hole survey / Raising	hrs.	22	68	816.00	20 1/2	66 1/2	800.00 *
Shafts / Reaming	ft.	0	183	695.40	0	183	695.40
Winzes / Bulldozing	hrs.	0	60 1/2	882.00	0	60 1/2	882.00
Other Underground / Standby	hrs.	22	66	726.00	22	66	726.00
Drilling, Core-Diamond	ft.	391	4223	38,660.96	391	4224	37,670.10 *
Core boxes / Rotary	no.	12	224	224.00	12	208	208.00
Drilling, Non-core-Diamond							
Water truck rent / Rotary	Mo.	2	6 1/2	1,187.50	2	6 1/2	1,187.50
Survey Inst. rent / Churn	days	30	41	900.00	30	41	900.00
Water haul / Percussion	miles	124	447	53.64	124	447	53.64
Miscellaneous / Cementing	hrs.	144	818	10,225.00	144	818	10,225.00
Additives	sacks	99	605	4,389.00	99	605	4,389.00
Roads and Trails							
Stripping / Truck driver, etc.	hrs.	224	920	2,830.35	224	920	2,830.35
Trenching							
Test Pitting							
Other Surface Work / Vehicular mileage	mi.	1080	13,960	1,676.28	1080	13,960	1,675.20
Initial Rehabilitation and Repairs / Moblization 100%				350.00			350.00
Rehabilitation of Mine Workings / Accounting, office				673.33			673.33
New Buildings, Fixtures, etc. / Payroll taxes, ins.				1,057.62			1,010.11
Operating Equipment Purchases							
Analytical Work				2,888.75			2,855.00 *
TOTAL TO DATE (per MME Form 60)				74,925.69			73,467.99

REMARKS

(Continue on back)

REMARKS

See memo 3/24/69 for itemized deductions.

(Continue on back)

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 3/6/69 Operator RHECO-LENADO, INC.

Per Henry L. Stein Title Vice President

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

I certify that the information above is complete and accurate to the best of my knowledge and belief.

Signature J. William Hacker

Title Field Office Government Representative

Date March 24 1969

(INSTRUCTIONS ON REVERSE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
Geological Survey
Branch of Budget and Finance
Washington, D. C. 20242

ADMINISTRATIVE SUSPENSION STATEMENT

Name and Address of Payee: Rheco-Lenado, Inc.
P.O. Box 1023
Aspen, Colorado 81611

95848

Amount Claimed:	Differences (Explained Below)	Amount Approved
8,917.17	1,034.05	7,883.12 5,912.34 Gov. Part.

Eu. Voucher No.	Payee's Invoice No.	Period
	Docket #6415 Contract #2236	November, December, January

EXPLANATION

		Claimed			Contract Allowed		Disallowed
50 ft.	at	10.35	517.50	at	7.75	387.50	130.00
81 ft.	"	9.90	801.90	"	7.40	599.40	202.50
20 ft.	"	9.90	198.00	"	7.40	148.00	50.00
60 ft.	"	9.00	540.00	"	6.50	390.00	150.00
38 ft.	"	9.60	364.80	"	7.10	269.80	95.00
120 ft.	"	9.60	1,152.00	"	7.10	852.00	300.00
22 ft.	"	9.10	200.00	"	6.60	145.20	55.00
			3,774.40			2,791.90	982.50
Error in addition 3,776.20 should be 3,774.40							1.80
In-hole Survey claimed 816.00 Contract only allowed 800.00							16.00
Claimed 607.75 for analytical work should be 82 samples at 7.00 574.00							33.75.
							1,034.05

Any reclaim for items deducted must be included as a separate item on subsequent monthly voucher and supported by the original of this statement.

Branch of Budget and Finance

Office of Minerals Exploration
Building 53 Room 200

March 24, 1969

Memorandum

To: Acting Chief, Office of Minerals Exploration

From: Field Officer, Region III

Subject: OME-6415 (Silver)
RHECO-LENADO (Assignee)
Lenado Area
Pitkin County, Colorado
Contract 2236

Transmitted herewith are the original and two copies of the Operator's Monthly Voucher (MME Form 60) and Monthly Progress Report (MME Form 61) with supporting documents for the months of November, December, 1968 and January 1969 included in one voucher. The Operator's report of review of their work will be sent shortly as it has been transmitted to us. It is not, however, a final report as required in the subject contract under Article 5(c).

J. William Hasler

J. William Hasler,
Field Officer, Region III
Office of Minerals Exploration

Enclosures

cc: OME-6415
OME chron
Mr. Hasler

NARRATIVE REPORT OF OPERATIONS FOR THE MONTHS OF NOVEMBER AND DECEMBER, 1968 AND FOR THE MONTH OF JANUARY, 1969

RHECO - LENADO, Inc., Operator

Lenado Area, Pitkin County, Colorado

Docket No. OME-6415

Contract No. 14-23-090-2236

Drilling continued in DDH 8 which began the month of November at a depth of 39 feet and culminated at the end of January at a depth of 430 feet. This drill hole inclined at an angle of 50 degrees and intersected 89 feet of recent talus and overburden. It then proceeded to a depth of 339 feet in middle Belden formation sedimentary breccias and dolomites, from which point to the total depth the drill hole transected fault gouge associated with the north strand of the Lenado fault. The fault gouge appears to be composed of lower Belden carbonaceous shales and bluish gray dolomites.

Between depths of 163 and 190 feet DDH 8 passed through a mineralized zone 27 feet thick. With a core recovery of 66% the weighted average of this zone shows 13.25 ounces of silver, 35.54 % of lead, and 3.95% of zinc. A rough estimate of value premised upon 90% silver return, 60% lead return, and no return nor penalty for the zinc shows a gross value of $79.00 per ton.

We do not believe DDH 7 intersected the mineralized zone described above, as no mention is made of highly mineralized rocks in the original lithologic description of cored material in the upper portion of this hole. That portion of the core was subsequently lost in a core shed fire.

The mineralized zone of DDH 8 is approximately 140 feet from abandoned workings associated with the Aspen Contact mine. No mineralization is associated with Lenado fault gouge in the lower portion of DDH 8. We suggest a zone of zinc mineralization may lie 100 ahead of the termination point of DDH 8.

The geologic cross section of DDH 8 as well as the geologic plan map indicates the mineralized zone is not contiguous with nor associated with the high-zinc low-silver mineralization shown locally in the north strand of the Lenado fault such as shown in DDH 7 and 1 offset. We suggest the silver-lead mineralization shown in DDH 8 may be associated with a northeastward trending fault with minor movement. This structure may be terminated on the southwest by the imbricate slivers of the Lenado fault system and on the northeast by the Campbird fault.

Mr. John Kellogg, geologist and general manager of Rheco Lenado, left the corporation as of February, 1969. Mr. W. Manning Cox, consulting geologist has been retained to prepare a summation report of our Lenado exploratory activities. His report may by completed by March 20, 1969, at which time a copy will be forwarded to the Office of Minerals Exploration.

We are enclosing revised cross sections of all 8 drill holes, a geologic plan map, logs and assays from DDH 7 and 8, and

In addition we are submitting herewith a brief final report which may be used in lieu of the summation report by Mr. Cox.

James N. Babcock
Consulting Geologist

THE COMPUTATION OF MISCELLANEOUS COSTS FOR
NOVEMBER, DECEMBER 1968 AND JANUARY 1969

1. Supervision - none claimed: total completed

2. Vehicular mileage: Operator's Jeep, ten round trips to Lenado per month @ 36 miles = 1080 miles @ 12¢ = $129.60

~~3. Analytical work to be summarized and submitted on future voucher.~~

Standard Form No. 65
November 1961
General Services Administration
FPMR (41 CFR) 101-11.6

U.S. Government Messenger Envelope

NAME (OR TITLE) OF ADDRESSEE, AGENCY, ORGANIZATIONAL UNIT, ADDRESS, AND ROOM		NAME (OR TITLE) OF ADDRESSEE, AGENCY, ORGANIZATIONAL UNIT, ADDRESS, AND ROOM	
Administrative Services WRD, Rm. 2127 D.F.C., Denver, Colo.	STOP		STOP
Service and Supply	STOP	[illegible]	STOP
[illegible]	STOP	[illegible] 1040	STOP
O.R. Sherwin	STOP	[illegible]	STOP
[illegible]	STOP	[illegible]	STOP
Thos. A. Mendricks Rm 1625	STOP	~~Mrs. Hubbard~~ ~~Geologic Inquiries Group~~ ~~Rm 1025~~	STOP
~~Personnel~~	STOP	801-19th ~~St. N.W.~~	STOP
U. S. Geological Survey Processing and Servicing Section Branch of Personnel Washington D. C. 20242	STOP	~~Mr. Neel~~ ~~Bldg. 10~~	STOP
~~Service & Supply~~ ~~Rm 1040 Interior~~	STOP	Harold Kirkemo 4460- Int. Bldg	STOP
[illegible]	STOP		STOP

Use other side

Use STOP only when messenger service between Government buildings in Washington, D.C., is required or wherever a STOP system is used. Your mail room has STOP information.

65-107

NAME (OR TITLE) OF ADDRESSEE, AGENCY, ORGANIZATIONAL UNIT, ADDRESS, AND ROOM		NAME (OR TITLE) OF ADDRESSEE, AGENCY, ORGANIZATIONAL UNIT, ADDRESS, AND ROOM	
	STOP		STOP
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Use other side first

☆ U.S. GOVERNMENT PRINTING OFFICE: 1966—O—249-909

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
FEDERAL CENTER, DENVER, COLORADO 80225

Office of Minerals Exploration
Building 53 Room 200

December 18, 1968

OFFICIAL COPY
O. M. E.
RECEIVED
DEC 20 1968

INITIALS	CODE
	130
BSF	120
on leave	120
	120

Memorandum

To: Chief, Office of Minerals Exploration

From: Field Officer, Region III

Subject: OME-6415 (Silver)
Rheco-Lenado (Assignee)
Lenado Area
Pitkin County, Colorado
Contract 2236

Enclosed is an original and two copies of the Operator's monthly voucher, and monthly report for the month of October, 1968 with narrative, maps, and supporting documents. I have approved them for payment.

J. William Hasler

J. William Hasler,
Field Officer, Region III
Office of Minerals Exploration

MME FORM 60
SEPT. 1959

OFFICIAL COPY M. E. RECEIVED DEC 27 1968 INITIALS CODE

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

Docket No. OME-6415
Contract No. 2236
14-23-090- 78,800.00
Contract Amount $75 59,100.00
Gov't. Participation Silver
Mineral(s)

OPERATOR'S MONTHLY VOUCHER

For Month of October, 1968

Operator's Name RTECO - LENADO, INC.
Address P. O. Box 933, Aspen, Colorado 81611

COST CATEGORIES	FOR OPERATOR'S USE: MONTHLY TOTAL	PREVIOUSLY REPORTED	TOTALS TO DATE	FOR GOVERNMENT APPROVAL ONLY: MONTHLY TOTAL	PREVIOUSLY REPORTED	TOTALS TO DATE
Fixed Unit Costs and						
(1) Independent Contracts:						
Bulldozing Reaming	0	882.00	882.00			
Drilling	0	695.40	695.40			
Standby Time	0	484.00	484.00			
Crosscutting Dia. Core	616.35	26,980.41	27,604.76			
Drilling Cementing Time	925.00	7,500.00	8,425.00			
Mobilization 100%	0	350.00	350.00			
(2) Personal Services:						
Supervision & Technical	0	7,280.00	7,280.00			
Outside Consultants	0	5,200.00	5,200.00			
Labor						
(3) Operating Mat'l. & Supplies:						
Timber						
Explosives						
Pipe Water Haul	0	38.76	38.76			
Rail Cement Additives	292.50	3,354.00	3,646.50			
Core Boxes	5.00	207.00	212.00			
In-Hole Survey	0	552.00	552.00			
Casing lost inhole	0	1,489.86	1,489.86			
(4) Operating Equipment: Water Truck	0	807.50	807.50			
Rental Surv. Instrument	0	825.00	825.00			
Purchase Truck Driver etc.	0	2,077.11	2,077.11			
Depreciation						
(5) Initial Rehab. & Repairs:						
Buildings, Fixtures, etc.						
Operating Equipment						
(6) New Buildings, Fixtures, etc.						
(7) Miscellaneous:						
Repairs to Equipment	0	2,281.00	2,281.00			
Analytical Work	0	1,057.62	1,057.62			
Payroll Taxes						
Employer's liability Ins. Vehicle Mileage	43.20	1,503.48	1,546.68			
Accounting office	40.00	513.33	553.33			
		$64,086.47				
TOTALS	$1,922.05		$66,008.52			

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

Date 11/12/1968 *Payee RTECO - Lenado, Inc.

Per Henry L. Stein Title V. Pres.

* 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.

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

(INSTRUCTIONS ON REVERSE)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of: (63) 14X0804

$ 1,441.54

Signature [illegible]
(Authorized Certifying Officer)

Date DEC 26 1968 Vou. No. 95750

(SEE OTHER SIDE)

Certification by Government Representative:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating an exploration project in accordance with the terms of Contract No. 2236

Signature J. William Haslor Title Field Officer Date 12/18/68

Approved by OME Executive Officer or Alternate:

Signature J. William Haslor Title Field Officer Date 12/18/68

OPERATOR'S MONTHLY REPORT

The Operator, under an Office of Minerals Exploration contract, is required to report monthly to the Government. The report consists of three parts.

FIRST, the Operator's Monthly Voucher on MME Form 60 listing the project costs incurred and claimed by the Operator is the voucher basis for payment of the Government's share of the cost.

SECOND, the Operator's Progress Report on MME Form 61 is a statistical report of the units and cost of of work performed under the contract.

THIRD, the Operator's Narrative Report is a concise description of the work performed, results accomplished, and any unusual situations encountered, illustrated and supported by engineering-geological maps or sketches, drill hole logs, assay reports, etc., as pertinent.

The Operator submits the original and four copies of each of the three sections of this report to the OME regional Executive Officer at the end of each month during the life of the contract.

PREPARATION OF OPERATOR'S MONTHLY VOUCHER, MME FORM 60

After all applicable spaces are filled in, the Operator or his agent must sign the certification in the lower left corner. Categories (2) through (7) apply to "Actual Cost" contracts only.

Under "Fixed Unit Costs" and Category (1) report, (a) the total fixed unit costs of work performed under contract provisions for contribution by the Government on a basis of "fixed unit costs"; and (b) the claimed costs of work performed on a unit-price basis by independent contractors.

Under Category (2) include the claimed costs of all payrolled and invoiced supervisory, technical, and labor personnel, except the costs for services applicable to Categories (5) and (6).

Under Category (3) include the claimed costs of all project materials and supplies other than those used for work under Categories (5) and (6).

Under Category (4) report claimed rentals on equipment belonging to a third party, claimed payments or obligations for payments on the Operator's purchase of equipment, and claimed depreciation for the use of Operator-owned equipment.

Under Categories (5) and (6) include all claimed costs of labor, supervision, technical services, operating materials and supplies, and all other items used in (5) the initial rehabilitation and repairs of existing buildings, fixtures, installations (exclusive of mine workings), and operating equipment; and (6) the installation or construction of new buildings, fixtures, and fixed improvements (exclusive of mine workings). Do not report these costs under Categories (2), (3), (4), and (7).

Under Category (7) include all miscellaneous claimed costs such as repairs (other than initial) and maintenance of equipment, sampling and analysis, travel, communication, accounting, office expenses, and the Operator's share of payroll taxes and insurance.

Except for amounts claimed under "fixed unit costs" provisions of the contract, all costs claimed in this voucher must be supported by documentary evidence consisting of: (a) certified copies or transcripts of payrolls which list each employee, wage rate, period of employment, gross earnings, itemized deductions, and net earnings; (b) original or certified copies of invoices, statements of accounts, or purchase orders which indicate items of materials or services, quantities, unit prices, total charges, and payment terms; and (c) certified memoranda of the Operator for such items as depreciation of Operator-owned equipment, unemployment taxes, and employee's liability insurance. The certification may be stated thus, "Certified True Copy (or Transcript)", followed by the signature of the Operator or his agent. One copy of each document should accompany the original of this voucher.

The requirement for submitting documentary evidence of claimed costs may be waived by the OME regional Executive Officer if he determines that it is impracticable for an Operator to submit this material. In any case of waiver of this requirement an "on-site" audit by an OME auditor is mandatory prior to payment of the final Operator's Monthly Voucher.

MME FORM 51
SEPT. 1959

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

OPERATOR'S PROGRESS REPORT For Month of October, 1968 Docket No. OME - 641S 2236

Operator's Name RMECO - LENADO, INC. Contract No. 14-23-090-

OPERATION	UNITS	FOR OPERATOR'S USE: UNITS THIS MONTH	UNITS TO DATE	COSTS TO DATE	FOR GOVERNMENT USE: APPROVED UNITS THIS MONTH	APPROVED UNITS TO DATE	APPROVED COSTS TO DATE
Labor, Ass't	salary	0		5,200.00	0		4,847.50
Drifting							
Casing in hole	ft.	0	618	1,489.86	0	618	1,489.86
Crosscutting							
In-hole Survey	hrs.	0	46	552.00	0	46	552.00
Raising							
Reaming	ft.	0	183	695.40	0	183	695.40
Shafts							
Bulldozing	hrs.	0	60½	882.00	0	60½	882.00
Winzes							
Standby	hrs.	0	44	484.00	0	44	484.00
Other Underground							
Drilling, Core-Diamond	ft.	86	3,833	34,884.76	86	3,833	34,878.20
Core Boxes	no.	5	212	212.00	5	196	196.00
Drilling, Rotary							
Drilling, Non-core-Diamond							
Water truck Rent.	No.	0	4½	807.50	0	4½	807.50
Rotary							
Surv. Inst. Rent.	days	0	11	825.00	0	11	825.00
Churn							
Water Haul	miles	0	323	38.76	0	323	38.76
Percussion							
Cementing	hrs.	74	674	8,425.00	74	674	8,425.00
Miscellaneous							
Additives	sacks	39	506	3,646.50	39	506	3,646.50
Roads and Trails							
Truck Driver etc.	hrs	0	696	2,077.11	0	696	2,077.11
Stripping							
Trenching							
Vehicular mileage	miles	360	12,880	1,546.68	360	12,880	1,545.60
Other Surface Work							
Mobilization 100%				850.00			850.00
Initial Rehabilitation and Repairs							
Accounting, office				553.33			553.33
Rehabilitation of Mine Workings							
Payroll taxes, Insur.				1,057.62			1,010.11
New Buildings, Fixtures, etc.							
Operating Equipment Purchases				2,281.00			2,281.00
Analytical Work							
TOTAL TO DATE (per MME Form 60)				~~$66,008.52~~ ($66,008.52)			65,584.87

REMARKS

(Continue on back)

REMARKS

(Continue on back)

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

Date Nov. 12, 1968 Operator RMECO - LENADO, INC.

Per Henry L. Stein Title V. Pres.

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

I certify that the information above is complete and accurate to the best of my knowledge and belief.

Signature J. William Hasler

Title Field Office Government Representative

Date December 18, 1968

(INSTRUCTIONS ON REVERSE)

INSTRUCTIONS FOR PREPARING OPERATOR'S PROGRESS REPORT, MME FORM 61

This report is the second of the three parts of the Operator's Monthly Report. Submit the original and four copies.

The cost for each operation should be the total of all claimed costs attributable to that type of work with two exceptions, namely—operating equipment purchased and analytical work which are stated separately. For example, drifting costs should be the total of all costs chargeable to drifting including supervision, technical services, timbering (if any), etc. Similarly, drilling costs should include the cost of cementing, reaming, core boxes, etc. This procedure of distribution holds whether the contract was written on an actual cost or a unit cost basis, or some combination of the two. Distribute the cost of such general items as supervision, equipment rented, etc. according to relative footages or on some other conventional basis. The item "Initial Rehabilitation and Repairs" covers all rehabilitation and/or repairs other than the rehabilitation of mine workings.

The item titled "Drilling, Non-core Percussion" includes all drilling performed with wagon, jack-hammer, stoper and mounted drills. The several items labelled "Other" are provided to take care of particular exploration operations not specified on this form.

NARRATIVE REPORT OF OPERATIONS FOR MONTH OF OCTOBER, 1968

RHECO - LENADO, INC., Operator

Lenado Area, Pitkin County, Colorado

Docket No. OME-6415

Contract No. 14-23-090-2236

OME Region III
RECEIVED
DEC 3 - 1968
Denver, Colorado

Little can be added to the Narrative Report for September, since we mentioned DDH 7 bottoming at 470' after penetrating 10 feet of Sawatch Quartzite, and by month's end DDH 8 had drilled but 39 feet of quartzite overburden boulders. For October, DDH 7 advanced from 423 feet to the bottom of 470 feet, and, with the 39 feet in DDH 8, total drilling footage for the month was only 86 feet. Nearly two weeks were lost due to fishing for a broken string of rods, the core barrel and bit in DDH 7 just beyond 423 feet.

As previously noted, the cores and sludges from 231' to 253' in DDH 7 were completely lost in the fire to our field cabin, neither logged nor sampled. From 253' to 255' we had 1.4 oz. Silver, 6.2% Lead, and 11.3% Zinc. From 253' through 261' we had 0.75 oz. Silver, 2.61% Lead, and 7.68% Zinc. The lost cores had visible PbS seams, so the width and grade of this first mineral zone must remain unknown; our current DDH 8 should pick this up, however. We consider having commercial grade ore from 383 feet through 430 feet, with 1.0 oz. Silver, 3.5% Lead, and 19.4% Zinc, fora true width of close to 30 feet. Attached is a copy of an Assay Report on our composite samples 383' through 423 feet, showing only 0.30% Oxide Lead, and 2.10% Oxide Zinc. Also attached is a Qualitative Spectographic Analysis report on the same composite. Together with the Oxide content report, this suggests an ore highly favorable to metallurgical treatment. It is interesting that in the percentage range, the silver converts to from 2.4 ounces to 24 ounces.

A completed Vertical Section Profile of DDH 7 is attached, with some of the pertinent Aspen Contact Mine Workings projected from the southwest.

John P. Kellogg
General Manager

THE COMPUTATION OF MISCELLANEOUS COSTS FOR OCTOBER, 1960

1. Supervision - none claimed; total completed.

2. Vehicular mileage: Operator's Jeep, ten round trips to Lenado @ 36 Miles = 360 miles x 12¢ = $43.20.

3. Analytical work to be summarized and submitted on future voucher.

Telephone 363-3302

Hand Sample Serial 36041

ASSAY REPORT

UNION ASSAY OFFICE, Inc.

W. C. WANLASS, President
L. G. HALL, Vice President
G. P. WILLIAMS, Treasurer
GERALDINE A. WANLASS, Secretary
P. O. Box 1528
Salt Lake City, Utah 84110

Mine Richmond Hill Exploration Co.
Box 939
Aspen, Colorado 81611

RESULTS PER TON OF 2000 POUNDS

Oct. 30, 1968

NUMBER	GOLD Ozs. per Ton	SILVER Ozs. per Ton	LEAD Wet on Ore	COPPER Per Cent	INSOL. Per Cent	ZINC Per Cent	SULPHUR Per Cent	IRON Per Cent	LIME Per Cent	Per Cent	Per Cent
										Ox Pb	Ox Zn
Comp. 294 thru 298										0.30	2.10

Note: Individual Assays

Sple No.	Interval	Oz. Au.	Oz. Ag.	% Pb.	% Zn.
294	383 - 393	Tr.	0.9	2.8	9.7
295	393 - 403	Tr.	0.6	1.8	11.2
296	403 - 405	Tr.	0.6	2.2	16.1
297	405 - 413	0	1.0	3.2	19.0
298	413 - 423 (423)	Tr.	2.0	8.2	36.3

- Nil Cd.

Remarks

Charges $ 4.00

G. P. Williams

METALLURGICAL LABORATORIES, INC. CHEMISTS • ASSAYERS • SPECTROGRAPHERS

1142 HOWARD STREET • SAN FRANCISCO, CALIFORNIA 94103 • AREA CODE 415 863-8575

Submitted by Union Assay Office, Inc
P.O. Box 1528
Salt Lake City, Utah

Date November 7, 1968

Sample of Mineral

Qualitative Spectrographic Analysis

METALS FOUND AND PERCENTAGE RANGE

P. O. No.

Lab. No. 3205-3

SAMPLE MARK	LESS THAN 0.01%	.01 TO .10%	.10 TO 1.0%	1.0 TO 10.0%	MAJOR
Richmond Hill	Strontium	Copper	Magnesium	Zinc	Silicon
Expl. Comp.	Vanadium	Titanium	Manganese	Iron	
294-298	Chromium	Cadmium	Calcium	Lead	
	Bismuth	Silver	Sodium		
	Barium		Potassium		
	Zirconium				
	Boron				
	Nickel				
	Cobalt				

REMARKS: Lead, Zinc and Iron close to high side of percentage range.

METALLURGICAL LABORATORIES, INC.

By [signature]
SPECTROCHEMIST

MET LAB FORM 14

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
FEDERAL CENTER, DENVER, COLORADO 80225

Office of Minerals Exploration
Building 53 Room 203

November 21, 1968

OFFICIAL COPY
O. M. E.
NOV 25 1968

Memorandum

To: Chief, Office of Minerals Exploration

From: Field Officer, Region III

Subject: OME-6415 (Silver)
RHECO-LENADO
Pitkin County, Colorado
Contract 2236

Transmitted herewith are the original and two copies with substantiating documents of the September, 1968 monthly voucher (Form 9-1648) on the above-captioned subject.

J. William Hasler

J. William Hasler,
Field Officer, Region III
Office of Minerals Exploration

Enclosures

MME FORM 60
SEPT. 1959

OFFICIAL COPY J. M. E. RECEIVED DEC 13 1968 DIVISION CODE

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

Docket No. ONE-6415
Contract No.
14-23-090- 2236

OPERATOR'S MONTHLY VOUCHER

For Month of September, 1968

Contract Amount $ 78,800.00
Gov't. Participation % 75 $ 59,100.00
Mineral(s) Silver

Operator's Name RHECO - LENADO, INC.
Address P. O. Box 939, Aspen, Colorado 81611

COST CATEGORIES	FOR OPERATOR'S USE			FOR GOVERNMENT APPROVAL ONLY		
	MONTHLY TOTAL	PREVIOUSLY REPORTED	TOTALS TO DATE	MONTHLY TOTAL	PREVIOUSLY REPORTED	TOTALS TO DATE
Fixed Unit Costs and						
(1) Independent Contracts:						
Bulldozing	0	882.00	882.00			
Drifting Reaming	0	695.40	695.40			
Standby Time	0	484.00	484.00			
Drilling Dia. Core	1,165.50	25822.91	26,988.41			
Cementing time	662.50	6837.50	7,500.00			
Mobilization 100%	0	350.00	350.00			
(2) Personal Services:						
Supervision & Technical	0	7280.00	7,280.00			
Outside Consultants						
Labor	0	5200.00	5,200.00			
(3) Operating Mat'l. & Supplies:						
Timber						
Explosives						
Pipe						
Rail Water Haul	0	38.76	38.76			
Cement Additives	240.00	3114.00	3,354.00			
Core Boxes	10.00	197.00	207.00			
In-hole Survey	72.00	480.00	552.00			
Casing lost inhole	0	1489.86	1,489.86			
(4) Operating Equipment:						
Rental Water Truck	0	807.50	807.50			
Surveying Instrument	75.00	750.00	825.00			
Truck Driver etc	0	2077.11	2,077.11			
(5) Initial Rehab. & Repairs:						
Buildings, Fixtures, etc.						
Operating Equipment						
(6) New Buildings, Fixtures, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Analytical Work	126.00	2155.00	2,281.00			
Payroll Taxes	0	1057.62	1,057.62			
Employee's Liability Ins.						
Vehicle mileage	25.92	1477.56	1,503.48			
Accounting, office	40.00	473.33	513.33			
		$61,669.55				63662.82
TOTALS	$2,416.92		$64,086.47			

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

Date 10/28/1968 *Payee RHECO-Lenado, Inc

Per Henry L. Stertzle Title V. Pres.

* 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.

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

(INSTRUCTIONS ON REVERSE)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of: (63) 14X0801

$ 1812.69

Signature mo
(Authorized Certifying Officer)

Date DEC 10 1968 Vou. No. 93469

(SEE OTHER SIDE)

Certification by Government Representative:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating an exploration project in accordance with the terms of Contract No. 2236

Signature J. William Hasler Title Field Officer Date 11/20/68

Approved by OME Executive Officer or Alternate:

Signature J. William Hasler Title Field Officer Date 11/20/68

OPERATOR'S MONTHLY REPORT

The Operator, under an Office of Minerals Exploration contract, is required to report monthly to the Government. The report consists of three parts.

FIRST, the Operator's Monthly Voucher on MME Form 60 listing the project costs incurred and claimed by the Operator is the voucher basis for payment of the Government's share of the cost.

SECOND, the Operator's Progress Report on MME Form 61 is a statistical report of the units and cost of of work performed under the contract.

THIRD, the Operator's Narrative Report is a concise description of the work performed, results accomplished, and any unusual situations encountered, illustrated and supported by engineering-geological maps or sketches, drill hole logs, assay reports, etc., as pertinent.

The Operator submits the original and four copies of each of the three sections of this report to the OME regional Executive Officer at the end of each month during the life of the contract.

PREPARATION OF OPERATOR'S MONTHLY VOUCHER, MME FORM 60

After all applicable spaces are filled in, the Operator or his agent must sign the certification in the lower left corner. Categories (2) through (7) apply to "Actual Cost" contracts only.

Under "Fixed Unit Costs" and Category (1) report, (a) the total fixed unit costs of work performed under contract provisions for contribution by the Government on a basis of "fixed unit costs"; and (b) the claimed costs of work performed on a unit-price basis by independent contractors.

Under Category (2) include the claimed costs of all payrolled and invoiced supervisory, technical, and labor personnel, except the costs for services applicable to Categories (5) and (6).

Under Category (3) include the claimed costs of all project materials and supplies other than those used for work under Categories (5) and (6).

Under Category (4) report claimed rentals on equipment belonging to a third party, claimed payments or obligations for payments on the Operator's purchase of equipment, and claimed depreciation for the use of Operator-owned equipment.

Under Categories (5) and (6) include all claimed costs of labor, supervision, technical services, operating materials and supplies, and all other items used in (5) the initial rehabilitation and repairs of existing buildings, fixtures, installations (exclusive of mine workings), and operating equipment; and (6) the installation or construction of new buildings, fixtures, and fixed improvements (exclusive of mine workings). Do not report these costs under Categories (2), (3), (4), and (7).

Under Category (7) include all miscellaneous claimed costs such as repairs (other than initial) and maintenance of equipment, sampling and analysis, travel, communication, accounting, office expenses, and the Operator's share of payroll taxes and insurance.

Except for amounts claimed under "fixed unit costs" provisions of the contract, all costs claimed in this voucher must be supported by documentary evidence consisting of: (a) certified copies or transcripts of payrolls which list each employee, wage rate, period of employment, gross earnings, itemized deductions, and net earnings; (b) original or certified copies of invoices, statements of accounts, or purchase orders which indicate items of materials or services, quantities, unit prices, total charges, and payment terms; and (c) certified memoranda of the Operator for such items as depreciation of Operator-owned equipment, unemployment taxes, and employee's liability insurance. The certification may be stated thus, "Certified True Copy (or Transcript)", followed by the signature of the Operator or his agent. One copy of each document should accompany the original of this voucher.

The requirement for submitting documentary evidence of claimed costs may be waived by the OME regional Executive Officer if he determines that it is impracticable for an Operator to submit this material. In any case of waiver of this requirement an "on-site" audit by an OME auditor is mandatory prior to payment of the final Operator's Monthly Voucher.

MME FORM 61
SEPT. 1959

OK-WKE
11/20/68

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

OPERATOR'S PROGRESS REPORT For Month of September, 1968 Docket No. OME - 6415

Operator's Name RHECO - LENADO, INC. Contract No. 14-23-090-2236

OPERATION	UNITS	FOR OPERATOR'S USE: UNITS THIS MONTH	UNITS TO DATE	COSTS TO DATE	FOR GOVERNMENT USE: APPROVED UNITS THIS MONTH	APPROVED UNITS TO DATE	APPROVED COSTS TO DATE
Labor, Ass't - salary		0		$ 5,200.00	0		4,847.50
Drifting							
Casing in hole	ft.	0	618	1,489.86	0	618	1,489.86
Crosscutting							
In-hole Survey	hrs.	6	46	552.00	6	46	552.00
Raising							
Reaming	ft.	0	183	695.40	0	183	695.40
Shafts							
Bulldozing	hrs.	0	60½	882.00	0	60½	882.00
Winzes							
Standby	hrs.	0	44	484.00	0	44	484.00
Other Underground							
Drilling, Core-Diamond	ft.	170	3,747	34,268.41	170	3,747	34,261.85
Core Boxes	no.	10	207	207.00	10	191	191.00
Drilling, Non-core-Diamond							
Water Truck Rent.	Mo.	0	4½	807.50	0	4½	807.50
Rotary							
Surv. Inst. Rent.	days	1	11	825.00	1	11	825.00
Chum							
Water Haul	miles	0	323	38.76	0	323	38.76
Percussion							
Cementing	hrs.	53	600	7,500.00	53	600	7,500.00
Miscellaneous							
Additives	sacks	32	467	3,354.00	32	467	3,354.00
Roads and Trails							
Truck Driver etc	hrs.	0	696	2,077.11	0	696	2,077.11
Stripping							
Trenching							
Test Pitting							
Vehiculer mile	miles	216	12,520	1,503.48	216	12,520	1,502.40
Other Surface Work							
Initial Rehabilitation and Repairs	Mobilization 100%			350.00			350.00
Rehabilitation of Mine Workings	Accounting, office			513.33			513.33
New Buildings, Fixtures, etc.	Payroll taxes, insur.			1,057.62			1,010.11
Operating Equipment Purchases							
Analytical Work				2,281.00			2,281.00
TOTAL TO DATE *(per MME Form 60)*				$64,096.47			63,662.82

REMARKS

(Continue on back)

REMARKS

(Continue on back)

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 Oct. 28, 1968 Operator RHECO - LENADO, INC.

Per Henry F. Stein Title V. Pres.

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

I certify that the information above is complete and accurate to the best of my knowledge and belief.

Signature J. William Hasler

Title Field Office
Government Representative

Date Nov. 20, 1968

(INSTRUCTIONS ON REVERSE)

REMARKS *(Cont.)*

REMARKS *(Cont.)*

INSTRUCTIONS FOR PREPARING OPERATOR'S PROGRESS REPORT, MME FORM 61

This report is the second of the three parts of the Operator's Monthly Report. Submit the original and four copies.

The cost for each operation should be the total of all claimed costs attributable to that type of work with two exceptions, namely—operating equipment purchased and analytical work which are stated separately. For example, drifting costs should be the total of all costs chargeable to drifting including supervision, technical services, timbering (if any), etc. Similarly, drilling costs should include the cost of cementing, reaming, core boxes, etc. This procedure of distribution holds whether the contract was written on an actual cost or a unit cost basis, or some combination of the two. Distribute the cost of such general items as supervision, equipment rented, etc. according to relative footages or on some other conventional basis. The item "Initial Rehabilitation and Repairs" covers all rehabilitation and/or repairs other than the rehabilitation of mine workings.

The item titled "Drilling, Non-core Percussion" includes all drilling performed with wagon, jack-hammer, stoper and mounted drills. The several items labelled "Other" are provided to take care of particular exploration operations not specified on this form.

NARRATIVE REPORT OF OPERATIONS FOR MONTH OF SEPTEMBER, 1968

RHECO - LENADO, INC., Operator

Lenado Area, Pitkin County, Colorado

Docket No. OME-6415

Contract No. 14-23-090-2236

-

DDH 7 advanced from a depth of 253' on September 1 to a depth of 423' on October 1. The hole was drilled with BX Wireline to 340' and from AX Wireline from there on. All of this advance was probably in the Leadville formation, although the altered, leached, brecciated nature of the dolomite makes exact identification difficult. Attached to this report is a condensed core log, with assays. A detailed log for shorter intervals is available.

This hole has shown gratifying mineral content, with perhaps commercial lead-zinc, but with low silvers in the cores. It is possible that the sludges will show higher silvers, as they did in DDH 1. The relatively high assays starting at 253' make the loss of cores and sludges in the fire particularly unfortunate. The interval from 383' to 423' has a weighted average of a Trace of Au., 1.11 Ag., 3.93% Pb., and 18.9% Zinc. Subsequently, we have extended this interval to 430 feet for an average of 1.0 oz. Ag., 3.47% Pb. and 19.4 Zinc for a true width of close to 30 feet. After 430' the assays drop rapidly, but still mineralized, to 460', where we encountered Sawatch Quartzite. The hole was bottomed at 470' during October.

Tests are being made to determine what percent of the lead-zincs are oxides. Visible galena has been fairly common, but the zinc is probably mostly Smithsonite - its leaching hastened by the presence of iron pyrites. Chances are good that this is is a leached and oxidized "capping" over primary lead and silver. From U.S.G.S. Bulletin 1135-C, reference to Lenado: "They (massive pediko orebodies) are zoned: the upper zones are rich in zinc and manganese and contain some lead and a little silver; the central zones are lead ores rich in silver; and the lower zones are rich silver ores ...." and "Within the upper zinc-rich zones of the silver-lead ore bodies, nearly all of the sphalerite has been replaced by dirty-brown iron-rich smithsonite." This quote probably refers more to Aspen, but the author, Mr. Heyl, lumps Lenado and Aspen together. Several other authorities have noted the same zoning, and have predicted it for Lenado.

DDH 8 is collared from the same drill site as DDH 7, but angled S 10½° W to intercept the "ore" zone about half way between

DDH 7 and zinc reserves as mapped in the Aspen-Contact Mine workings. Indications are that these reserves and DDH 7's 30' of mineral are continuous, although separated by about 325 feet; DDH 8 should resolve this. Also, indications are that somehow this zinc ore in DDH 7 is connected with the erratic assays in DDH 1, about 300 ft. to the northeast. Thus, an inference may be made as to reserves, as our attached sketch suggests. A vertical section of DDH 7 shows a vertical distance of about 480 ft. from the 383' - 430' interval in DDH 7 to the base of the gravels.

Admittedly, connecting up DDH 1, DDH 7 and the Aspen Contact, for a distance of 675 feet, and calling this "Indicated" may seem far-fetched, but the continuous mineable zones in the Aspen-Contact and Leadville Mines ran from 800' to over 1,000 ft., depending on which authority you accept. In the Aspen District, so similar and probably related, this continuity was not at all unusual.

Finally, there is a strong resemblance in the cores and types of mineralization in DDH 7 and DDH 1, and in the zinc minerals and rock on the Aspen-Contact dump, very likely that mined in the 1920's.

A question may be asked: to reach the targets aimed at in DDH 8, why not push the access farther to the southwest, and drill a shorter hole? For 100 feet west of DDH 7 there is a jumble of quartzite slidorock boulders, some as large as a D-7, and a competent bulldozer operator we had out to look at it just shook his head. Any other way up to the west side of this steep slide would require at least 1,000 feet of new road.

We feel that DDH 8 will be most significant in the development of ore reserves.

John P. Kellogg

John P. Kellogg
General Manager

THE COMPUTATION OF MISCELLANEOUS COSTS FOR SEPTEMBER, 1968

1. Supervision - none claimed; total completed.

2. Certain unit costs on attached MME forms, such as drilling, are lower than Boyles Bros. Invoice costs in order to agree with O.M.E. contract prices.

3. Vehicular mileage based on number of round trips to Lenado (6 trips x 36 miles = 216 total miles)

CORE LOG AND ASSAYS FOR DDH 7, Lenado Area Project, O.M.E. Contract 14-23-090-2236
To Accompany September, 1968 Report of Operations - RHECO-LEHADO, INC.

Sample Number	Interval	% Core Recov.	Description	ASSAYS Oz. Au.	Oz. Ag.	% Pb.	% Zn.
	0 - 100'		Overburden; 95% Sawatch boulders				
	100 - 160'	9%	Altered yellow-brown Belden				
281	160 - 163'	25%	Leached, altered sandy Dol. Belden	Tr.	0.0	0.8	1.0
	163 - 231'	5-10%	Altered leached gougy Belden				
	231 - 245'	10%	Dark clay gouge; Silver Fault contact?				
284	245 - 253'	80% ?	Leadville Dol. Burned and oxidized	Tr.	0.2	0.9	2.2
(Note: Up to 253' all cores and dudges lost in fire mentioned in August Narrative. Sample # 284 salvaged from ashes by guess.)							
283	253 - 254'	50%	Pebbly Leadville Dol. visible S_2	Tr.	1.4	5.6	13.7
282	254 - 255'	80%	Breccia; gry Dol. visible S_2	Tr.	1.4	6.8	8.9
285	255 - 257'	100%	Flt. Gouge; mud; gry-brown	0	1.0	3.0	3.6
286	257 - 258'	100%	Leached, tan, fine-grained silty mud	0	1.1	0.7	7.8
287	258 - 259'	100%	Sandy, Red oxides; breccia	0	0.1	0.6	6.6
288	259 - 261	100%	Dark yellow; speckled w/red; sandy	0	0	0.6	8.6
289	261 - 263'	100%	Soft speckled yellow-brown s.stone	0	0	0.4	0.7
	263 - 340'	70% ave.	Altered and oxidized sandy Dolomite breccia; yellow to red to green-gry; quartzite inclusions; silty in places.				
290	340 - 346'	25%	Dense silty green-yellow s.stone brecc.	0	0	0.4	1.1
291	346 - 353'	25%	Hard blue-gray pebbly Dol. breccia	Tr.	0.6	1.0	1.1
292	353 - 373'	21%	Gry to blk banded dol. breccia; silty	0	0.2	0.8	1.0
293	373 - 383'	45%	Gry-Blk sandy dol. breccia; banded	Tr.	0.7	1.7	2.6
294	383 - 393'	40%	Same; darker, visible S_2	Tr.	0.9	2.8	9.7
295	393 - 403'	25%	Same; dark; softer; more gouge, FeS_2	Tr.	0.6	1.8	11.2
296	403 - 405'	100%	Same; more fragmented breccia, FeS_2	Tr.	0.5	2.2	16.1
297	405 - 413'	45%	Lt. and Dark Gry Breccia; visible PbS	0	1.0	3.2	19.0
298	413 - 423'	3%	Same (only 4" core; tube didn't latch)	Tr.	2.0	8.2	36.3
			Total Number O. M. E. determinations:		18	18	18

Samples assayed for Pb. and Zn: 18 @ $4.00 - - - - - $72.00
Samples assayed for Au. and Ag: 18 @ 3.00 - - - - - 54.00
$126.00

Note: Sample No. 298 run for Cadmium; none determined
all cores checked with Geiger Counter, with negative results

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
FEDERAL CENTER, DENVER, COLORADO 80225

Office of Minerals Exploration
Building 53 Room 203

October 9, 1968

OFFICIAL COPY
O. M. E.
RECEIVED
OCT 11 1968

INITIALS	CODE
	130
	120
	110
	~~120~~

Memorandum

To: Chief, Office of Minerals Exploration

From: Field Officer, Region III

Subject: OME-6415 (Silver)
RHECO-LENADO
Pitkin County, Colorado
Contract 2236

Transmitted herewith are the original and two copies of the August, 1968 monthly voucher (Form 9-1648) on the above-captioned subject.

J. William Hasler
mc

J. William Hasler,
Field Officer, Region III
Office of Minerals Exploration

Enclosures

MME FORM 60
SEPT. 1959

OFFICIAL COPY
O. M. E.
RECEIVED
SEP 30 1968
INITIALS CODE

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

Docket No. OME-6415
Contract No. 14-23-090-2236
Contract Amount $ 78,800.00
Gov't. Participation % 75 $ 59,100.00
Mineral(s) Silver

OPERATOR'S MONTHLY VOUCHER

For Month of August, 1968

Operator's Name RHECO - LENADO, INC.
Address P. O. Box 939, Aspen, Colorado 81611

COST CATEGORIES	FOR OPERATOR'S USE: MONTHLY TOTAL	PREVIOUSLY REPORTED	TOTALS TO DATE	FOR GOVERNMENT APPROVAL ONLY: MONTHLY TOTAL	PREVIOUSLY REPORTED	TOTALS TO DATE
Fixed Unit Costs and						
(1) Independent Contracts:						
Bulldozing Teaming	0	882.00	882.00			
Standby Time	19.00	676.40	695.40			
Crossc Dia. Core	0	484.00	484.00			
Cementing Time	1,403.15	24419.76	25,822.91			
Mobilization 100%	975.00	5862.50	6,837.50			
	0	350.00	350.00			
(2) Personal Services:						
Supervision & Technical	0	7280.00	7,280.00			
Outside Consultants						
Labor	0	5200.00	5,200.00			
(3) Operating Mat'l. & Supplies:						
Timber						
Explosives			3,114.00			
Pipe						
Rail Water Haul	0	38.76	38.76			
Cement additives	500.77	2613.23	3,114.00			
core boxes	4.00	193.00	197.00			
In-hole Survey	36.00	444.00	480.00			
casing lost inhole	0	1489.86	1,489.86			
(4) Operating Equipment:						
Rental Water truck	0	807.50	807.50			
Surv Instrument	75.00	675.00	750.00			
Truck Driver, etc	0	2077.11	2,077.11			
(5) Initial Rehab. & Repairs:						
Buildings, Fixtures, etc.						
Operating Equipment						
(6) New Buildings, Fixtures, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Analytical Work	0	2155.00	2,155.00			
Payroll Taxes	0	1057.62	1,057.62			
Employee's Liability Ins.						
Vehicle mileage	56.16	1421.40	1,477.56			
Accounting, office	40.00	433.33	473.33			
TOTALS	$3,109.08	$58,560.47	$61,669.55	3102.58		61,261.90

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

Date 9/30/1968 *Payee RHECO - Lenado Inc

Per Henry L. Stern Title V. Pres.

* 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.

Wilfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

(INSTRUCTIONS ON REVERSE)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of: I4X0804

$ 2326.94

Signature [illegible]
(Authorized Certifying Officer)

Date OCT 25 1968 Voucher No. 92618

(SEE OTHER SIDE)

Certification by Government Representative:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating an exploration project in accordance with the terms of Contract No. 2236

Signature J. William Hasler Title Field Officer Date 10/9/68

Approved by OME Executive Officer or Alternate:

Signature J. William Hasler Title Field Officer Date 10/9/68

OPERATOR'S MONTHLY REPORT

The Operator, under an Office of Minerals Exploration contract, is required to report monthly to the Government. The report consists of three parts.

FIRST, the Operator's Monthly Voucher on MME Form 60 listing the project costs incurred and claimed by the Operator is the voucher basis for payment of the Government's share of the cost.

SECOND, the Operator's Progress Report on MME Form 61 is a statistical report of the units and cost of of work performed under the contract.

THIRD, the Operator's Narrative Report is a concise description of the work performed, results accomplished, and any unusual situations encountered, illustrated and supported by engineering-geological maps or sketches, drill hole logs, assay reports, etc., as pertinent.

The Operator submits the original and four copies of each of the three sections of this report to the OME regional Executive Officer at the end of each month during the life of the contract.

PREPARATION OF OPERATOR'S MONTHLY VOUCHER, MME FORM 60

After all applicable spaces are filled in, the Operator or his agent must sign the certification in the lower left corner. Categories (2) through (7) apply to "Actual Cost" contracts only.

Under "Fixed Unit Costs" and Category (1) report, (a) the total fixed unit costs of work performed under contract provisions for contribution by the Government on a basis of "fixed unit costs"; and (b) the claimed costs of work performed on a unit-price basis by independent contractors.

Under Category (2) include the claimed costs of all payrolled and invoiced supervisory, technical, and labor personnel, except the costs for services applicable to Categories (5) and (6).

Under Category (3) include the claimed costs of all project materials and supplies other than those used for work under Categories (5) and (6).

Under Category (4) report claimed rentals on equipment belonging to a third party, claimed payments or obligations for payments on the Operator's purchase of equipment, and claimed depreciation for the use of Operator-owned equipment.

Under Categories (5) and (6) include all claimed costs of labor, supervision, technical services, operating materials and supplies, and all other items used in (5) the initial rehabilitation and repairs of existing buildings, fixtures, installations (exclusive of mine workings), and operating equipment; and (6) the installation or construction of new buildings, fixtures, and fixed improvements (exclusive of mine workings). Do not report these costs under Categories (2), (3), (4), and (7).

Under Category (7) include all miscellaneous claimed costs such as repairs (other than initial) and maintenance of equipment, sampling and analysis, travel, communication, accounting, office expenses, and the Operator's share of payroll taxes and insurance.

Except for amounts claimed under "fixed unit costs" provisions of the contract, all costs claimed in this voucher must be supported by documentary evidence consisting of: (a) certified copies or transcripts of payrolls which list each employee, wage rate, period of employment, gross earnings, itemized deductions, and net earnings; (b) original or certified copies of invoices, statements of accounts, or purchase orders which indicate items of materials or services, quantities, unit prices, total charges, and payment terms; and (c) certified memoranda of the Operator for such items as depreciation of Operator-owned equipment, unemployment taxes, and employee's liability insurance. The certification may be stated thus, "Certified True Copy (or Transcript)", followed by the signature of the Operator or his agent. One copy of each document should accompany the original of this voucher.

The requirement for submitting documentary evidence of claimed costs may be waived by the OME regional Executive Officer if he determines that it is impracticable for an Operator to submit this material. In any case of waiver of this requirement an "on-site" audit by an OME auditor is mandatory prior to payment of the final Operator's Monthly Voucher.

964056

MME FORM 61
SEPT. 1959.

WLE 10/17/68

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

OPERATOR'S PROGRESS REPORT For Month of August, 1968 Docket No. OME - 6415

Operator's Name RHECO - LENADO, INC. Contract No. 14-23-090- 2236

OPERATION	UNITS	FOR OPERATOR'S USE: UNITS THIS MONTH	UNITS TO DATE	COSTS TO DATE	FOR GOVERNMENT USE: APPROVED UNITS THIS MONTH	APPROVED UNITS TO DATE	APPROVED COSTS TO DATE
Labor, Ass't salary		0		$5,200.00	0		4,847.50
Drifting							
Casing in hole	ft.	0	618	1,489.86	0	618	1,489.86
Crosscutting							
In-hole Survey	hrs	3	40	480.00	3	40	480.00
Raising							
Reaming	ft.	5	183	695.40	5	183	695.40
Shafts							
Bulldozing	hrs.	0	60½	882.00	0	60½	882.00
Winzes							
Standby	hrs.	0	44	484.00	0	44	484.00
Other Underground							
Drilling, Core-Diamond	ft.	204	3,577	33,102.91	204	3,577	33,102.85
Core Boxes	no.	4	197	197.00	4	181	181.00
Rotary							
Drilling, Non-core-Diamond							
Water truck Rent.	no.	0	4½	807.50	0	4½	807.50
Rotary							
Surv. Inst. Rent.	days	1	10	750.00	1	10	750.00
Churn							
Water Haul	miles	0	323	38.76	0	323	38.76
Percussion							
Cementing	hrs.	78	547	6,837.50	78	547	6,837.50
Miscellaneous							
Additives	sacks	79	435	3,114.00	79	435	3,114.00
Road and Trail							
Truck Driver, etc	hrs	0	696	2,077.11	0	696	2,077.11
Stripping							
Trenching							
Test Pitting							
Vehicular mileage	miles	468	12,304	1,477.56	468	12,304	1,476.48
Other Surface Work							
Mobilization 100%				350.00			350.00
Initial Rehabilitation and Repairs							
Accounting, office				473.33			473.33
Rehabilitation of Mine Workings							
Payroll taxes, Insuranc				1,057.62			1,010.11
New Buildings, Fixtures, etc.							
Operating Equipment Purchases				2,155.00			2,155.00
Analytical Work							
TOTAL TO DATE (per MME Form 60)				$61,669.55			61,151.28

REMARKS

(Continue on back)

REMARKS
1) Disallow $6.50 from core drilling claim. Excess of one foot of BX core drilling claimed beyond amount (150 ft) shown on Contractor's invoice
W. L. Emerick 10/17/68

(Continue on back)

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 Sept. 30, 1968 Operator RHECO - LENADO, INC.

Per Henry L. Stein Title V. Pres.

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

I certify that the information above is complete and accurate to the best of my knowledge and belief.

Signature J. William Hosler

Title Field Office
Government Representative

Date October 9, 1968

(INSTRUCTIONS ON REVERSE)

REMARKS *(Cont.)*

REMARKS *(Cont.)*

INSTRUCTIONS FOR PREPARING OPERATOR'S PROGRESS REPORT, MME FORM 61

This report is the second of the three parts of the Operator's Monthly Report. Submit the original and four copies.

The cost for each operation should be the total of all claimed costs attributable to that type of work with two exceptions, namely—operating equipment purchased and analytical work which are stated separately. For example, drifting costs should be the total of all costs chargeable to drifting including supervision, technical services, timbering (if any), etc. Similarly, drilling costs should include the cost of cementing, reaming, core boxes, etc. This procedure of distribution holds whether the contract was written on an actual cost or a unit cost basis, or some combination of the two. Distribute the cost of such general items as supervision, equipment rented, etc. according to relative footages or on some other conventional basis. The item "Initial Rehabilitation and Repairs" covers all rehabilitation and/or repairs other than the rehabilitation of mine workings.

The item titled "Drilling, Non-core Percussion" includes all drilling performed with wagon, jack-hammer, stoper and mounted drills. The several items labelled "Other" are provided to take care of particular exploration operations not specified on this form.

BUDGET & MANAGEMENT
OCT 21 8 09 AM '59
9 0 4 9 6

UNITED STATES
DEPARTMENT OF THE INTERIOR
Geological Survey
Branch of Budget and Finance
Washington, D. C. 20242

ADMINISTRATIVE SUSPENSION STATEMENT

Name and Address of Payee:

Rhoco -Lenado Inc.
P.O. Box 939
Aspen, Colorado 81611

Amount Claimed:	Differences (Explained Below)	Amount Approved
3,109.08	6.50	3,102.58 2,326.94 Govt. Part.
Mo. Voucher No.	Payee's Invoice No.	Period
	Docket #6115 COntract #2236	August, 1968

EXPLANATION

Disallowing $6.50 from core drilling claim. Excess of one foot of BX core drilling claimed beyond amount of 150 ft. shown on Contractor's invoice.

Any credit for items deducted must be included as a separate item on subsequent monthly voucher and supported by the original of this statement.

ms
Branch of Budget

THE COMPUTATION OF MISCELLANEOUS COSTS FOR AUGUST, 1968

1. Supervision - none claimed; total completed. Labor - none claimed until future reclaim with supporting documents for Suspension Statement No. 86394.

2. Unit costs on attached MME forms based on O.M.E. contract, not on Boyles Bros. sub-contract prices, which are higher.

3. Payroll taxes - none claimed until future reclaim with supporting documents for Suspension Statement No. 86394.

4. Cement additives cheaper this month than the $7.50 O.M.E. contract price. Only Boyles' Bros actual Invoice price of $508.77 for 79 sacks is claimed on attached MME forms.

5. Vehicular mileage based on number of round trips to Lenado (13 trips x 36 miles = 468 total miles)

NARRATIVE REPORT OF OPERATIONS FOR MONTH OF AUGUST, 1968

RHECO - LENADO, INC., Operator

Lenado Area, Pitkin County, Colorado

Docket No. OME-6415

Contract No. 14-23-090-2236

-

DDH 7 advanced from a depth of 49' on Aug. 1 to a depth of 253' on September 1. The overburden of Sawatch Quartzite continued to a depth of 100 feet. From 100 feet to about 231 feet the bedrock was highly altered, yellow-brown, leached and oxidized Belden. Much of the core was a gouge-breccia. The Belden-Leadville contact was encountered at the projected 231' - 245 feet. Beyond 245 feet the core was definitely Leadville dolomite. On Sunday morning, September 1, the writer drove to Lenado to log, split and sample the cores from 231' to the bottom of 253', which the driller had placed in the core shed, along with the sludge samples. The locked and U. S. Gov't posted shed, together with two other cabins and a large barn had been completely reduced to ashes as the result of a fire during Saturday night's hippie party. All of our previous cores and sludges, all boxed and labelled, all of our large supply of unused core boxes, other valuable supplies and books, etc. were a smouldering pile of irrecoverable rubble. The Hippies happily admitted causing the fire, beaming through their beards.

The major loss was the 22 feet of core, which had showed sulfides. From 253' to 254', for instance, the split core assayed 1.4 oz. Ag., 5.6% Pb., and 13.7% Zinc.

From 160' to 163' a core assay was 0 Ag., 0.8% Pb. and 1% Zinc.

During the month the drilling was difficult and slow, requiring almost constant cementing to maintain water return.

John P. Kellogg

John P. Kellogg
General Manager

MME FORM 60
SEPT. 1959

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

OFFICIAL COPY
Docket No. M.E.
Contract No.
RECEIVED
SEP 27 1968
INTERIOR CODE

CME - 6415

2236

OPERATOR'S MONTHLY VOUCHER

For Month of July, 1968

Contract Amount $ 78,800.00

Operator's Name RHECO - LENADO, INC.

Description % 75 $ 59,100.00

Mineral(s) Silver

Address P. O. Box 939, Aspen, Colorado 81611

COST CATEGORIES	FOR OPERATOR'S USE: MONTHLY TOTAL	PREVIOUSLY REPORTED	TOTALS TO DATE	FOR GOVERNMENT APPROVAL ONLY: MONTHLY TOTAL	PREVIOUSLY REPORTED	TOTALS TO DATE
Fixed Unit Costs and						
(1) Independent Contracts:						
Bulldozing	0	882.00	882.00			
Drifting Reaming	57.00	619.40	676.40			
Standby Time Crosscutting	0	484.00	484.00			
Drilling Dia. Core	384.65	24035.11	24,419.76			
cementing time	187.50	5675.00	5,862.50			
mobilization 100%	0	350.00	350.00			
(2) Personal Services:						
Supervision & Technical	0	7280.00	7,280.00			
Outside Consultants						
Labor	0	5200.00	5,200.00			
(3) Operating Mat'l. & Supplies:						
Timber						
Explosives						
Pipe						
Rail Water Haul	0	38.76	38.76			
cement additives	232.50	2380.73	2,613.23			
core boxes	0	193.00	193.00			
in-hole survey	0	444.00	444.00			
casing lost inhole	0	1489.86	1,489.86			
(4) Operating Equipment:						
Rental water truck	0	807.50	807.50			
Surv. Instrument Purchase	0	675.00	675.00			
Truck Driver, etc Depreciation	0	2077.11	2,077.11			
(5) Initial Rehab. & Repairs:						
Buildings, Fixtures, etc.						
Operating Equipment						
(6) New Buildings, Fixtures, etc.						
(7) Miscellaneous:						
Repairs to Equipment	0	2155.00	2,155.00			
Analytical Work	0	1057.62	1,057.62			
Payroll Taxes						
Employee's Liability Ins.						
Vehicle mileage	51.84	1369.56	1,421.40			
Accounting, office	20.00	413.33	433.33			
TOTALS	$933.49	$57626.98	$58,560.47			

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

Date Aug. 20, '68 *Payee RHECO-Lenado Inc.

Per Henry S. Stein Title V. Pres.

* 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.

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

(INSTRUCTIONS ON REVERSE)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of: 14X0804

$ 700.12

Signature mo
(Authorized Certifying Officer)

Date SEP 25 1968 Vou. No. 91911

(SEE OTHER SIDE)

Certification by Government Representative:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating an exploration project in accordance with the terms of Contract No. 2236

Signature J. William Hasler Title Field Officer Date 9/11/68

Approved by OME Executive Officer or Alternate:

Signature J. William Hasler Title Field Officer Date 9/11/68

OPERATOR'S MONTHLY REPORT

The Operator, under an Office of Minerals Exploration contract, is required to report monthly to the Government. The report consists of three parts.

FIRST, the Operator's Monthly Voucher on MME Form 60 listing the project costs incurred and claimed by the Operator is the voucher basis for payment of the Government's share of the cost.

SECOND, the Operator's Progress Report on MME Form 61 is a statistical report of the units and cost of of work performed under the contract.

THIRD, the Operator's Narrative Report is a concise description of the work performed, results accomplished, and any unusual situations encountered, illustrated and supported by engineering-geological maps or sketches, drill hole logs, assay reports, etc., as pertinent.

The Operator submits the original and four copies of each of the three sections of this report to the OME regional Executive Officer at the end of each month during the life of the contract.

PREPARATION OF OPERATOR'S MONTHLY VOUCHER, MME FORM 60

After all applicable spaces are filled in, the Operator or his agent must sign the certification in the lower left corner. Categories (2) through (7) apply to "Actual Cost" contracts only.

Under "Fixed Unit Costs" and Category (1) report, (a) the total fixed unit costs of work performed under contract provisions for contribution by the Government on a basis of "fixed unit costs"; and (b) the claimed costs of work performed on a unit-price basis by independent contractors.

Under Category (2) include the claimed costs of all payrolled and invoiced supervisory, technical, and labor personnel, except the costs for services applicable to Categories (5) and (6).

Under Category (3) include the claimed costs of all project materials and supplies other than those used for work under Categories (5) and (6).

Under Category (4) report claimed rentals on equipment belonging to a third party, claimed payments or obligations for payments on the Operator's purchase of equipment, and claimed depreciation for the use of Operator-owned equipment.

Under Categories (5) and (6) include all claimed costs of labor, supervision, technical services, operating materials and supplies, and all other items used in (5) the initial rehabilitation and repairs of existing buildings, fixtures, installations (exclusive of mine workings), and operating equipment; and (6) the installation or construction of new buildings, fixtures, and fixed improvements (exclusive of mine workings). Do not report these costs under Categories (2), (3), (4), and (7).

Under Category (7) include all miscellaneous claimed costs such as repairs (other than initial) and maintenance of equipment, sampling and analysis, travel, communication, accounting, office expenses, and the Operator's share of payroll taxes and insurance.

Except for amounts claimed under "fixed unit costs" provisions of the contract, all costs claimed in this voucher must be supported by documentary evidence consisting of: (a) certified copies or transcripts of payrolls which list each employee, wage rate, period of employment, gross earnings, itemized deductions, and net earnings; (b) original or certified copies of invoices, statements of accounts, or purchase orders which indicate items of materials or services, quantities, unit prices, total charges, and payment terms; and (c) certified memoranda of the Operator for such items as depreciation of Operator-owned equipment, unemployment taxes, and employee's liability insurance. The certification may be stated thus, "Certified True Copy (or Transcript)", followed by the signature of the Operator or his agent. One copy of each document should accompany the original of this voucher.

The requirement for submitting documentary evidence of claimed costs may be waived by the OME regional Executive Officer if he determines that it is impracticable for an Operator to submit this material. In any case of waiver of this requirement an "on-site" audit by an OME auditor is mandatory prior to payment of the final Operator's Monthly Voucher.

MME FORM 61
SEPT. 1959

HR 9/12/68

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

OPERATOR'S PROGRESS REPORT For Month of July, 1968 Docket No. OME - 6415

Operator's Name RHECO - LENADO, INC. Contract No. 14-23-090-2236

OPERATION	UNITS	FOR OPERATOR'S USE: UNITS THIS MONTH	UNITS TO DATE	COSTS TO DATE	FOR GOVERNMENT USE: APPROVED UNITS THIS MONTH	APPROVED UNITS TO DATE	APPROVED COSTS TO DATE
Drilling							
Labor, Ass't	salary	0		$5,200.00	0		4,847.50
Cross-cutting							
Casing in hole	ft.	0	618	1,489.86	0	618	1,489.86
Raising							
In-hole survey	hrs	0	37	444.00	0	37	444.00
Shafts							
Reaming	ft.	15	178	676.40	15	178	676.40
Winzes							
Bulldozing	hrs.	0	60½	882.00	0	60½	882.00
Other Underground							
Standby	hrs.	0	44	484.00	0	44	484.00
Drilling, Core-Diamond							
Core Boxes	ft.	49	3,373	31,699.76	49	3,373	31,699.70
Rotary	no.	0	193	193.00	—	177	177.00
Drilling, Non-core-Diamond							
Water Track Rent.	Mo.	0	4½	807.50	0	4½	807.50
Rotary							
Surv. Inst. Rent.	days	0	9	675.00	0	9	675.00
Churn							
Water Haul	miles	0	323	38.76	0	323	38.76
Percussion							
Miscellaneous							
Cementing	hrs.	15	469	5,862.50	15	469	5,862.50
Additives	sacks	31	356	2,613.23	31	356	2,613.23
Roads and Trails							
Truck Driver, etc	hrs.	0	696	2,077.11	0	696	2,077.11
Stripping							
Trenching							
Test Pitting							
Vehicular mileage	miles	432	11,836	1,421.40	432	11,836	1,420.32
Other Surface Work							
Initial Rehabilitation and Repairs	Mobilization 100%			350.00			350.00
Rehabilitation of Mine Workings	Accounting, office			433.33			433.33
New Buildings, Fixtures, etc.	Payroll taxes, insur.			1,057.62			1,010.11
Operating Equipment Purchases							
Analytical Work				2,155.00			2,155.00
TOTAL TO DATE *(per MME Form 60)*				$58,560.47			58,159.32

REMARKS

(Continue on back)

REMARKS

(Continue on back)

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 Aug. 20, 1968 Operator RHECO - LENADO, INC.

Per Henry L. Stein Title V. Pres.

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

I certify that the information above is complete and accurate to the best of my knowledge and belief.

Signature J. William Hasler

Title Field Officer
Government Representative

Date Sept. 11, 1968

(INSTRUCTIONS ON REVERSE)

REMARKS *(Cont.)*

REMARKS *(Cont.)*

INSTRUCTIONS FOR PREPARING OPERATOR'S PROGRESS REPORT, MME FORM 61

This report is the second of the three parts of the Operator's Monthly Report. Submit the original and four copies.

The cost for each operation should be the total of all claimed costs attributable to that type of work with two exceptions, namely—operating equipment purchased and analytical work which are stated separately. For example, drifting costs should be the total of all costs chargeable to drifting including supervision, technical services, timbering (if any), etc. Similarly, drilling costs should include the cost of cementing, reaming, core boxes, etc. This procedure of distribution holds whether the contract was written on an actual cost or a unit cost basis, or some combination of the two. Distribute the cost of such general items as supervision, equipment rented, etc. according to relative footages or on some other conventional basis. The item "Initial Rehabilitation and Repairs" covers all rehabilitation and/or repairs other than the rehabilitation of mine workings.

The item titled "Drilling, Non-core Percussion" includes all drilling performed with wagon, jack-hammer, stoper and mounted drills. The several items labelled "Other" are provided to take care of particular exploration operations not specified on this form.

NARRATIVE REPORT OF OPERATIONS FOR MONTH OF JULY, 1968

SHECO - LENADO, INC., Operator

Lenado Area, Pitkin County, Colorado

Docket No. OME-6415

Contract No. 14-23-090-2236

-

Reference is made to our letter of July 24, explaining the delay in restarting the project, setting up on July 15, hooking up and collaring DDH 7 on July 17.

The first ten feet drilled with a rock bit were off the dip inclination more than 5 degrees, and it was necessary to cement and redrill after securing the rig more firmly. The finaly dip as subsequently drilled was closer to 52° than the 51° planned.

All of the 49 feet advance for July was in Sawatch Quartzite overburden and rubble. The drillers' bits were down rapidly, usually becoming useless after penetrating only five feet. Water loss was frequent and considerable cementing was done.

John P. Kellogg

John P. Kellogg
General Manager

THE COMPUTATION OF MISCELLANEOUS COSTS FOR JULY, 1968

1. Supervision - none claimed; total completed. Labor - none claimed until future reclaim with supporting documents for Suspension Statement No. 86394.

2. Bulldozing to site for DDH 7 - none claimed; work done free.

3. Unit costs on attached MME forms based on O.M.E. contract, not on Boyles Bros. sub-contract prices, which are higher.

4. Payroll taxes - none claimed until future reclaim with supporting documents for Suspension Statement No. 86394.

5. Office and accounting - only 50% claimed for last half of month.

6. Cement additives: 31 sacks x $7.50 = $232.50 (vs Boyles(31 sacks for $387.94 = $12.51/sack.

7. Dia. core, 49' all overburden, drilled NC size, @ O.M.E. contract price of $7.85.

8. Vehicular mileage based on number of round trips to Lenado (12 trips x 36 miles distance) rather than by speedometer reading as formerly because Operator's Jeep in non-project use.

MME FORM 60
SEPT. 1959

OFFICIAL COPY O. L. E. RECEIVED MAY 12 1968 INITIALS CODE

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

OME Region III RECEIVED APR 9 1968 Denver, Colorado

Docket No. IMC - 6415
Contract No. 14-23-090-2236
Contract Amount $ 78,800.00
Gov't. Participation % 75 $ 59,100.00
Mineral(s) Silver

OPERATOR'S MONTHLY VOUCHER

For Month of March, 1968

Operator's Name RHECO - LENADO, INC.
Address P. O. Box 939, Aspen, Colorado 81611

COST CATEGORIES	FOR OPERATOR'S USE: MONTHLY TOTAL	PREVIOUSLY REPORTED	TOTALS TO DATE	FOR GOVERNMENT APPROVAL ONLY: MONTHLY TOTAL	PREVIOUSLY REPORTED	TOTALS TO DATE
Fixed Unit Costs and						
(1) Independent Contracts:						
Bulldozing	0	882.00	882.00			
Drifting Reaming	0	619.40	619.40			
Crosscutting Standby time	0	484.00	484.00			
Drilling Dia. Core	1516.10	22519.01	24,035.11		22,518.95	24,035.05
cementing time	75.00	5600.00	5,675.00			
mobilization 100%	175.00	175.00	350.00			
(2) Personal Services:						
Supervision & Technical	0	7280.00	7,280.00			
Outside Consultants						
Labor	76.88	5123.12	5,200.00		4770.62	4,847.50
(3) Operating Mat'l. & Supplies:						
Timber						
Explosives						
Pipe						
Rail Water Haul	6.24	32.52	38.76			
cement additives	360.00	2020.73	2,380.73			
core boxes	18.00	175.00	193.00			
in-hole surveying	36.00	408.00	444.00			
casing lost in hole	330.00	1159.86	1,489.86			
(4) Operating Equipment:						
Rental water truck	95.00	712.50	807.50			
Purchase Surv. Instrument	75.00	600.00	675.00			
Depreciation Truck Driver, etc	265.96	1811.15	2,077.11			
(5) Initial Rehab. & Repairs:						
Buildings, Fixtures, etc.						
Operating Equipment						
(6) New Buildings, Fixtures, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Analytical Work	0	2155.00	2,155.00			
Payroll Taxes	7.45	1050.17	1,057.62		1002.66	1010.11
Employee's Liability Ins.						
Vehicle mileage	37.92	1331.64	1,369.56		1330.56	1368.48
Accounting, office	40.00	873.33	413.33			
		$54,512.43				
TOTALS	$3,114.55		$57,626.98		54,111.28	57,225.83

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

Date April 6, '68 *Payee RHECO - Lenado Inc.

Per Henry F. Klein Title V. Pres

* 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.

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

(INSTRUCTIONS ON REVERSE)

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

$ 2,335.91 14X0804

Signature John
(Authorized Certifying Officer)

Date MAY 7 1968 Voucher No. 86709
(SEE OTHER SIDE)

Certification by Government Representative:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating an exploration project in accordance with the terms of Contract No. 2236

Signature J. William Hasler Title Field Officer Date 4/16/68

Approved by OME Executive Officer or Alternate:

Signature J. William Hasler Title Field Officer Date 4/16/68

OPERATOR'S MONTHLY REPORT

The Operator, under an Office of Minerals Exploration contract, is required to report monthly to the Government. The report consists of three parts.

FIRST, the Operator's Monthly Voucher on MME Form 60 listing the project costs incurred and claimed by the Operator is the voucher basis for payment of the Government's share of the cost.

SECOND, the Operator's Progress Report on MME Form 61 is a statistical report of the units and cost of of work performed under the contract.

THIRD, the Operator's Narrative Report is a concise description of the work performed, results accomplished, and any unusual situations encountered, illustrated and supported by engineering-geological maps or sketches, drill hole logs, assay reports, etc., as pertinent.

The Operator submits the original and four copies of each of the three sections of this report to the OME regional Executive Officer at the end of each month during the life of the contract.

PREPARATION OF OPERATOR'S MONTHLY VOUCHER, MME FORM 60

After all applicable spaces are filled in, the Operator or his agent must sign the certification in the lower left corner. Categories (2) through (7) apply to "Actual Cost" contracts only.

Under "Fixed Unit Costs" and Category (1) report, (a) the total fixed unit costs of work performed under contract provisions for contribution by the Government on a basis of "fixed unit costs"; and (b) the claimed costs of work performed on a unit-price basis by independent contractors.

Under Category (2) include the claimed costs of all payrolled and invoiced supervisory, technical, and labor personnel, except the costs for services applicable to Categories (5) and (6).

Under Category (3) include the claimed costs of all project materials and supplies other than those used for work under Categories (5) and (6).

Under Category (4) report claimed rentals on equipment belonging to a third party, claimed payments or obligations for payments on the Operator's purchase of equipment, and claimed depreciation for the use of Operator-owned equipment.

Under Categories (5) and (6) include all claimed costs of labor, supervision, technical services, operating materials and supplies, and all other items used in (5) the initial rehabilitation and repairs of existing buildings, fixtures, installations (exclusive of mine workings), and operating equipment; and (6) the installation or construction of new buildings, fixtures, and fixed improvements (exclusive of mine workings). Do not report these costs under Categories (2), (3), (4), and (7).

Under Category (7) include all miscellaneous claimed costs such as repairs (other than initial) and maintenance of equipment, sampling and analysis, travel, communication, accounting, office expenses, and the Operator's share of payroll taxes and insurance.

Except for amounts claimed under "fixed unit costs" provisions of the contract, all costs claimed in this voucher must be supported by documentary evidence consisting of: (a) certified copies or transcripts of payrolls which list each employee, wage rate, period of employment, gross earnings, itemized deductions, and net earnings; (b) original or certified copies of invoices, statements of accounts, or purchase orders which indicate items of materials or services, quantities, unit prices, total charges, and payment terms; and (c) certified memoranda of the Operator for such items as depreciation of Operator-owned equipment, unemployment taxes, and employee's liability insurance. The certification may be stated thus, "Certified True Copy (or Transcript)", followed by the signature of the Operator or his agent. One copy of each document should accompany the original of this voucher.

The requirement for submitting documentary evidence of claimed costs may be waived by the OME regional Executive Officer if he determines that it is impracticable for an Operator to submit this material. In any case of waiver of this requirement an "on-site" audit by an OME auditor is mandatory prior to payment of the final Operator's Monthly Voucher.

INT.DUP.,D.C.59- 27162

9/19/38/R 3318

MME FORM 61
SEPT. 1959

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

OPERATOR'S PROGRESS REPORT For Month of March, 1968 Docket No. OME-6415

Operator's Name RHECO - LENADO, INC. Contract No. 14-23-090-2236

OPERATION	UNITS	FOR OPERATOR'S USE: UNITS THIS MONTH	UNITS TO DATE	COSTS TO DATE	FOR GOVERNMENT USE: APPROVED UNITS THIS MONTH	APPROVED UNITS TO DATE	APPROVED COSTS TO DATE
Labor, Ass't. Salary				5,200.00	311.88	10 + 70 Hrs	5,200.00
Casing in hole	ft.	110	618	1,489.86	110	618	1,489.86
Inhole survey	hrs.	3	37	444.00	3	37	444.00
Shafts Reaming	ft.	0	163	619.40	0	163	619.40
Winzes Bulldozing	hrs.	0	60½	882.00	0	60½	882.00
Other Undergrd. Standby	hrs.	0	44	484.00	0	44	484.00
Drilling, Core-Diamond	ft.	216	3,324	31,315.11	216	3,324	29,091.59
Core Boxes Rotary	no.	18	193	193.00	22	177	177.00
Drilling, Non-core-Diamond							
Water Truck Rent. Rotary	No.	½	4½	807.50	1/2	4 1/4	807.50
Surf. Inst. Rent.	days	1	9	675.00	1	9	675.00
Water Haul Percussion	miles	52	323	38.76	52	323	38.76
Miscellaneous Cementing	hrs.	6	454	5,675.00	6	454	5,675.00
Additives	sacks	48	325	2,380.73	48	325	2,380.73
Roads and Trails							
Stripping Truck Driver, etc	hrs.	106	696	2,077.11	106	696	2,077.11
Trenching							
Test Pitting							
Other Service Work Vehicular mileage	miles	316	11,404	1,369.56	316	12,234	1,464.48
Initial Rehabilitation and Repair	Mobilization 100%			350.00			175.00
Rehabilitation of Mine Workings	Accounting, office			413.33			413.33
New Buildings, Fixtures, etc.	Payroll taxes, Insur			1,057.62			904.40
Operating Equipment Purchases							
Analytical Work				2,155.00			2,155.00
TOTAL TO DATE (per MME Form 60)				$57,626.98			$55,154.16

REMARKS

(Continue on back)

REMARKS

(Continue on back)

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 April 6, 1968 Operator RHECO - LENADO, INC.

Per Henry L. Stein Title V. Pres

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

I certify that the information above is complete and accurate to the best of my knowledge and belief.

Signature J. William Hasler

Title Field Officer
Government Representative

Date April 16, 1968

(INSTRUCTIONS ON REVERSE)

REMARKS *(Cont.)*

REMARKS *(Cont.)*

INSTRUCTIONS FOR PREPARING OPERATOR'S PROGRESS REPORT, MME FORM 61

This report is the second of the three parts of the Operator's Monthly Report. Submit the original and four copies.

The cost for each operation should be the total of all claimed costs attributable to that type of work with two exceptions, namely—operating equipment purchased and analytical work which are stated separately. For example, drifting costs should be the total of all costs chargeable to drifting including supervision, technical services, timbering (if any), etc. Similarly, drilling costs should include the cost of cementing, reaming, core boxes, etc. This procedure of distribution holds whether the contract was written on an actual cost or a unit cost basis, or some combination of the two. Distribute the cost of such general items as supervision, equipment rented, etc. according to relative footages or on some other conventional basis. The item "Initial Rehabilitation and Repairs" covers all rehabilitation and/or repairs other than the rehabilitation of mine workings.

The item titled "Drilling, Non-core Percussion" includes all drilling performed with wagon, jack-hammer, stoper and mounted drills. The several items labelled "Other" are provided to take care of particular exploration operations not specified on this form.

THE COMPUTATION OF MISCELLANEOUS COSTS FOR MARCH, 1968

1. Labor: all J.P.Kellogg: $76.88, brings to contract total of $5,200.00. (Supervision total used up.) Voucher check copy, first half March to Kellogg is attached.

2. Payroll taxes: FICA @ 4.4% plus State Compensation Insurance @ 5.29% = 9.69% x $76.88 = $ 7.45

3. Core Boxes:

Boyles invoice for Feb.	6 boxes		
" " " Mar.	22 "		
Total for DDH 6:	28		
Claimed, Feb. voucher	10		
Boxes used in March:	18		18.00

4. Vehicular mileage: Jeep speedometer, 3/15 41,129
3/1 40,813

@ 12@ Total Mileage, March: 316 37.92

5. Additives: 48 sacks @ $7.50 360.00
(Boyles charge for 48 sacks is $443.20, or $9.233/sack, plus 10 gals condet for $42.50)

6. Bx Casing, 110 feet, lost in hole; <u>not</u> left at Operator's request.

7. Truck Driver: Straight Time plus Overtime = 106 hours for $265.96 = $2.51/hr.

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
FEDERAL CENTER, DENVER, COLORADO 80225

Office of Minerals Exploration
Building 53 Room 203

April 4, 1968

OFFICIAL COPY
O. M. E.
RECEIVED
APR 8 1968

INITIALS	CODE
	130
bal	120 m
	110
Rmd	120 s

Memorandum

To: Chief, Office of Minerals Exploration

From: Field Officer, Region III

Subject: OME-6415 (Silver)
RHECO-LENADO (Assignee)
Pitkin County, Colorado
Contract 2236

Transmitted herewith are the original and two copies of MME Form 60 (Operator's Monthly Voucher), MME Form 61 (Operator's Progress Report) and narrative with substantiating documents for the month of February, 1968 on the above-stated contract.

J. William Hasler

J. William Hasler,
Field Officer, Region III
Office of Minerals Exploration

MME FORM 68
SEPT. 1959

OFFICIAL COPY
O. M. E.
RECEIVED
APR 19 1968
INITIALS CODE

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

Docket No. OME - 6415
Contract No. 14-23-090-2236
Contract Amount $78,800.00
Gov't. Participation 75% $59,100.00
Mineral(s) Silver

OPERATOR'S MONTHLY VOUCHER

For Month of February, 1968

Operator's Name RHECO - LENADO, INC.
Address P. O. Box 939, Aspen, Colorado 81611

COST CATEGORIES	FOR OPERATOR'S USE			FOR GOVERNMENT APPROVAL ONLY		
	MONTHLY TOTAL	PREVIOUSLY REPORTED	TOTALS TO DATE	MONTHLY TOTAL	PREVIOUSLY REPORTED	TOTALS TO DATE
Fixed Unit Costs and						
(1) Independent Contracts:						
Bulldozing	0	882.00	882.00			
Drifting Reaming	193.00	429.40	619.40			
Standby time	0	484.00	484.00			
Drilling Dia. Core	2372.65	20146.36	22,519.01		20,146.30	22,518.95
cementing time	662.50	4937.50	5,600.00			
mobilization 50%	0	175.00	175.00			
(2) Personal Services:						
Supervision & Technical	0	7280.00	7,280.00			
Outside Consultants						
Labor	650.00	4473.12	5,123.12	297.50		4,770.62
(3) Operating Mat'l. & Supplies:						
Timber						
Explosives						
Pipe						
Rail Water Haul	8.88	23.64	32.52			
cement additives	635.06	1585.73	2,020.73			
core boxes	10.00	165.00	175.00			
in-hole surveying	36.00	372.00	408.00			
casing lost in Hole	0	1159.86	1,159.86			
(4) Operating Equipment:						
Rental Water truck	190.00	522.50	712.50			
Surv. Instrument	75.00	525.00	600.00			
Truck Driver, etc.	625.05	1186.10	1,811.15			
(5) Initial Rehab. & Repairs:						
Buildings, Fixtures, etc.						
Operating Equipment						
(6) New Buildings, Fixtures, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Analytical Work	239.00	1916.00	2,155.00			
Payroll Taxes	62.98	987.19	1,050.17	28.82	973.84	1,002.66
Employee's Liability Ins.						
Vehicle mileage	73.08	1258.56	1,331.64		1,257.48	1,330.56
Accounting, office	40.00	333.33	373.33			
		$48,842.29				
TOTALS	$5,670.14		$54,512.43	5,283.48	48,827.08	54,111.28

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

Date Mar. 15, '68 *Payee RHECO - Lenado Inc

Per Henry L. Ittey Title V. Pres.

* 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.

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

(INSTRUCTIONS ON REVERSE)

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

$ 3,962.61 14X0804

Signature John (Authorized Certifying Officer)

Date APR 19 1968 Vou. No. 86394

(SEE OTHER SIDE)

Certification by Government Representative:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating an exploration project in accordance with the terms of Contract No. 2236.

Signature J. William Hasler Title Field Officer Date 4/3/68

Approved by OME Executive Officer or Alternate:

Signature J. William Hasler Title Field Officer Date 4/3/68

OPERATOR'S MONTHLY REPORT

The Operator, under an Office of Minerals Exploration contract, is required to report monthly to the Government. The report consists of three parts.

FIRST, the Operator's Monthly Voucher on MME Form 60 listing the project costs incurred and claimed by the Operator is the voucher basis for payment of the Government's share of the cost.

SECOND, the Operator's Progress Report on MME Form 61 is a statistical report of the units and cost of of work performed under the contract.

THIRD, the Operator's Narrative Report is a concise description of the work performed, results accomplished, and any unusual situations encountered, illustrated and supported by engineering-geological maps or sketches, drill hole logs, assay reports, etc., as pertinent.

The Operator submits the original and four copies of each of the three sections of this report to the OME regional Executive Officer at the end of each month during the life of the contract.

PREPARATION OF OPERATOR'S MONTHLY VOUCHER, MME FORM 60

After all applicable spaces are filled in, the Operator or his agent must sign the certification in the lower left corner. Categories (2) through (7) apply to "Actual Cost" contracts only.

Under "Fixed Unit Costs" and Category (1) report, (a) the total fixed unit costs of work performed under contract provisions for contribution by the Government on a basis of "fixed unit costs"; and (b) the claimed costs of work performed on a unit-price basis by independent contractors.

Under Category (2) include the claimed costs of all payrolled and invoiced supervisory, technical, and labor personnel, except the costs for services applicable to Categories (5) and (6).

Under Category (3) include the claimed costs of all project materials and supplies other than those used for work under Categories (5) and (6).

Under Category (4) report claimed rentals on equipment belonging to a third party, claimed payments or obligations for payments on the Operator's purchase of equipment, and claimed depreciation for the use of Operator-owned equipment.

Under Categories (5) and (6) include all claimed costs of labor, supervision, technical services, operating materials and supplies, and all other items used in (5) the initial rehabilitation and repairs of existing buildings, fixtures, installations (exclusive of mine workings), and operating equipment; and (6) the installation or construction of new buildings, fixtures, and fixed improvements (exclusive of mine workings). Do not report these costs under Categories (2), (3), (4), and (7).

Under Category (7) include all miscellaneous claimed costs such as repairs (other than initial) and maintenance of equipment, sampling and analysis, travel, communication, accounting, office expenses, and the Operator's share of payroll taxes and insurance.

Except for amounts claimed under "fixed unit costs" provisions of the contract, all costs claimed in this voucher must be supported by documentary evidence consisting of: (a) certified copies or transcripts of payrolls which list each employee, wage rate, period of employment, gross earnings, itemized deductions, and net earnings; (b) original or certified copies of invoices, statements of accounts, or purchase orders which indicate items of materials or services, quantities, unit prices, total charges, and payment terms; and (c) certified memoranda of the Operator for such items as depreciation of Operator-owned equipment, unemployment taxes, and employee's liability insurance. The certification may be stated thus, "Certified True Copy (or Transcript)", followed by the signature of the Operator or his agent. One copy of each document should accompany the original of this voucher.

The requirement for submitting documentary evidence of claimed costs may be waived by the OME regional Executive Officer if he determines that it is impracticable for an Operator to submit this material. In any case of waiver of this requirement an "on-site" audit by an OME auditor is mandatory prior to payment of the final Operator's Monthly Voucher.

4/10/68/RHS

MME FORM 61
SEPT. 1959

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

OPERATOR'S PROGRESS REPORT For Month of February, 1968 Docket No. OME-6415

Operator's Name RHECO - LENADO, INC. Contract No. 14-23-090- 2236

OPERATION	UNITS	FOR OPERATOR'S USE: UNITS THIS MONTH	UNITS TO DATE	COSTS TO DATE	FOR GOVERNMENT USE: APPROVED UNITS THIS MONTH	APPROVED UNITS TO DATE	APPROVED COSTS TO DATE
Labor, Ass't. salary		1	9+70Hrs	5,123.12	1	9+70Hrs	4,888.12
Casing in hole	ft.	0	508	1,159.86	0	508	1,159.86
In-hole survey	hrs.	3	34	408.00	3	34	408.00
Shafts Reaming	ft.	50	163	619.40	50	163	619.40
Winzes Bulldozing	hrs.	0	60½	882.00	0	60½	882.00
Other Underg Standby	hrs.	0	44	484.00	0	44	484.00
Drilling, Core-Diamond	ft.	329	3,108	29,799.01	329	3,108	29,575.49
Core Boxes tary	no.	10	175	175.00	10	155	155.00
Drilling, Non-core-Diamond							
Water truck Rent.	Mo.	1	3 3/4	712.50	1	3 3/4	712.50
Surv. Inst. Rent.	days	1	8	600.00	1	8	600.00
Water Haul Percussion	miles	74	271	32.52	74	271	32.52
Miscell Cementing	hrs.	53	448	5,600.00	53	448	5,600.00
Additives	sacks	58	277	2,020.73	58	277	2,020.73
Roads and Trails							
Truck Driver, etc	hrs.	202	590	1,811.15	202	590	1,811.15
Trenching							
Test Pitting							
Vehicular miles	miles	609	11,088	1,331.64	609	11,918	1,426.56
Other Surface Work							
Initial Rehabilitation and Repairs	Mobilization 50%			175.00			175.00
Rehabilitation of Mine Workings	Accounting, office			373.33			373.00
New Buildings, Fixtures, etc.	Payroll taxes, Insur.			1,050.17			874.18
Operating Equipment Purchases							
Analytical Work				2,155.00			2,155.00
TOTAL TO DATE (per MME Form 60)				$54,512.43			$51,952.84

REMARKS

(Continue on back)

REMARKS

Engineering Asst. etc
Allow $160.00
80.00
36.25
21.25
$297.50
allow payroll taxes & insurance @ 9.69% $28.82

(Continue on back)

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 Mar. 15, 1968 Operator RHECO - LENADO, INC.

Per Henry L. Stein Title

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

I certify that the information above is complete and accurate to the best of my knowledge and belief.

Signature J. William Hasler

Title Field Office
Government Representative

Date April 3, 1968.

(INSTRUCTIONS ON REVERSE)

REMARKS (Cont.)

REMARKS (Cont.)

INSTRUCTIONS FOR PREPARING OPERATOR'S PROGRESS REPORT, MME FORM 61

This report is the second of the three parts of the Operator's Monthly Report. Submit the original and four copies.

The cost for each operation should be the total of all claimed costs attributable to that type of work with two exceptions, namely—operating equipment purchased and analytical work which are stated separately. For example, drifting costs should be the total of all costs chargeable to drifting including supervision, technical services, timbering (if any), etc. Similarly, drilling costs should include the cost of cementing, reaming, core boxes, etc. This procedure of distribution holds whether the contract was written on an actual cost or a unit cost basis, or some combination of the two. Distribute the cost of such general items as supervision, equipment rented, etc. according to relative footages or on some other conventional basis. The item "Initial Rehabilitation and Repairs" covers all rehabilitation and/or repairs other than the rehabilitation of mine workings.

The item titled "Drilling, Non-core Percussion" includes all drilling performed with wagon, jack-hammer, stoper and mounted drills. The several items labelled "Other" are provided to take care of particular exploration operations not specified on this form.

86394

UNITED STATES
DEPARTMENT OF THE INTERIOR
Geological Survey
Branch of Budget and Finance
Washington, D. C. 20242

ADMINISTRATIVE SUSPENSION STATEMENT

Name and Address of Payee:

Rheco - Lonado, Inc.
P.O. Box 959
Aspen, Colorado 81611

Amount Claimed:	Differences (Explained Below)	Amount Approved
$5,670.14	$386.66	$5,283.48 $3,962.61 Government Participation
Bu. Voucher No.	Payee's Invoice No.	Period
	Contract # 6425 Contract # 2236	February 1968

EXPLANATION

Labor claimed	$650.00	
" allowed	297.50	
Disallowed (no supporting documents)		$352.50
Payroll taxes claimed	62.98	
" " allowed 9.69% of $297.50 =	28.82	
Disallowed (only $297.50 labor allowed)		34.16
Total Disallowance		$386.66

Any reclaim for items deducted must be included as a separate item on subsequent monthly voucher and supported by the original of this statement.

JRT

Branch of Budget and Finance

NARRATIVE REPORT OF OPERATIONS FOR MONTH OF FEBRUARY, 1968

RHECO - LENADO, INC., Operator

Lenado Area, Pitkin County, Colorado

Docket No. OME-6415

Contract No. 14-23-090-2236

OME Region III
RECEIVED
MAR 22 1968
Denver, Colorado

Due to correcting the bearing of DDH 6 and redrilling most of the overburden (see final paragraph in Narrative for January) the new, and correct line of this hole started on February 1. During the month 329 feet of hole was completed. Attached to this report are: a Plan sketch of DDH 6 showing its location relative to holes 1, 3 & 4, a lithological log of DDH 6, and a separate sheet of all assays for this hole. These attachments cover information to the hole's completed depth on March 13 of 545 feet. The attached MME forms, invoices, etc. are only to the March 1 depth of 329 feet.

As the log shows, the first drill run beyond 163 feet was unsatisfactory, with virtually no information to 205 feet. The contractor was asked to redrill it by reaming, side-hole sampling or by whatever method would yield some information. He elected to cement up to 160 feet and attempt to deflect his bit off of the hard cement into the softer ground (apparently the major "Camp Bird Fault"), and to dry sample by forcing a spring plug into the ground. This did not work, and he then reduced from NX to BX size, followed by casing. This did yield sludge returns and a small amount of core to about 220 feet. From this point on, beyond the fault, the core recovery increased. Unfortunately, the information from this faulted area was barren of desired mineral, but this negative information would not have been gained without deflecting the rods and redrilling after casing down.

Unless it should seem desirable to have microscopic petrographic analyses made of the cores beyond the Camp Bird Fault, from about 220 feet to the hole bottom of 545 feet, identification of the formation or formations penetrated must remain doubtful, at least insofar as this office is concerned. At first we thought we had identified altered Leadville dolomite, perhaps because this was expected. In places, particularly around 256 feet, where galena was visible, the core is typical Leadville, but in general the entire section is too sandy, more like Minturn, and most of the real dolomite appears more like Dyer than Leadville. There are even sections of carbonaceous, shaly material, very dark and limy, typical of Belden. Alteration alone is insufficient to explain this lack of definition. Perhaps the hole parallels a fault, a feature that these Lenado Paleozoics have admitted in

such surprising abundance. The amount of breccias, gouges and slickensides would support this. Neither the positively identified Belden in DDH 3, nor the positively identified Leadville in DDH 4 (see attached map) were found in this hole, which lies between the two.

The hole gained a few degrees to the right, or into the beds as expected, as shown on the map. Its dip increased slightly, from a starting inclination of -60° to about a -63°. By every section angle, considering elevations and formational dips, this hole should have crossed the entire width of Leadville after leaving the Camp Bird Fault. Perhaps it did, but if so it is an expression of Leadville unknown to this writer. Perhaps the existence of phlogopite mica from about 300' to 314' is a clue for one better versed in this stratigraphy.

John P. Kellogg

John P. Kellogg
General Manager

THE COMPUTATION OF MISCELLANEOUS COSTS FOR FEBRUARY, 1968

1. Payroll taxes: FICA @ 4.4% plus State Compensation Insurance @ 5.29% = 9.69% X $650.00 Labor = $ 62.98

2. Ten Boyles Bros core boxes actual count; bottom of box # 10 is at 329 feet, total footage for month.

3. Vehicular mileage: Jeep speedometer reading 3/1 40,813
   2/1 40,204

   Month's mileage, @ 12¢ - 609 73.08

4. Additives: 58 sacks @ $7.50 435.00
   (Boyles' charge for 58 sacks is $502.35
   plus 15 Gals. Condet 63.75

   $666.10)

5. Assays (original laboratory assay reports attached):
   43 Au and Ag. @ $3.00 129.00
   55 Pb or Zn. @ 2.00 110.00

   $239.00

6. Water Truck Driver, straight time plus overtime = 202 hours for a total, including payroll tax and insurance, of $625.05, or $3.094/hr (O.M.E. contract is $3.51/hr.)

LENADO CORE HOLE ASSAYS

To Accompany February, 1968 Report & Voucher

I. DDH 6 - Core Samples

Sample Number	Interval	Oz. Au.	Oz. Ag.	% Pb.	% Zn.	
582	152 - 153	Tr.	0	0.7	0.3	First Run
603	143 - 150	0	0		0.3	Second Run
604	150 - 153	0	0		0.4	First Run
605	153 - 157	0	0	Tr.	0.1	" "
606	157 - 160	0	0		0.3	" "
607	160 - 163	0	0		1.0	" "
608	150 - 158	0	0			(Second Run
609	163 - 193	0	0		0.3	from # 608 on)
610	193 - 223	0	0		0.3	
611	223 - 243				0.4	
612	243 - 248				1.0	
613	253 - 256	0	0	0.1	1.0	
614	256 - 257	0	0.4	1.6	4.6	visible PbS
615	257 - 258	0	0	0.2	1.5	visible ZnS ?
616	263 - 265	0	0	0	1.6	" " ?
617	265 - 267	0	0	0.3	1.7	" " ?
618	267 - 273	Tr.	0.1		1.4	
619	273 - 283	0	0		1.2	
620	283 - 288	0	0.3	0.2	2.1	
621	288 - 291	0	0.3	0.2	1.5	
622	293 - 296	0	0		1.0	
623	300 - 304	0	0		0.8	
624	320 - 321	0	0.1		1.2	
625	323 - 325	0	0		0.4	
626	353 - 358	0	0		0.3	

II. DDH 6 - Sludge Samples

583	166 - 173	.005	0		0
584	173 - 178	Tr.	0	0.3	Tr.
585	178 - 183	Tr.	0		0.8
586	183 - 188	Tr.	0		0.8
587	188 - 193	0	0		0.8
588	193 - 198	0	0	0.3	0.8
589	198 - 203	0	0		0.8
590	203 - 208	0	0		1.3
591	208 - 213	0	0		1.0
592	213 - 218	Tr.	0	0	1.4
593	218 - 223	0	0	0	0.5
594	223 - 228	0	0	0	0.2
595	228 - 233	0	0.2	0.2	0.3
596	233 - 238	0	0	0.1	0.3
597	243 - 248	0	0		
598	248 - 253	0	0		1.0
599	253 - 258	0	0.1		
600	258 - 263	0	0		
601	263 - 283	0	0		
602	283 - 293	0	0		1.7

Lenado Project Log DDH 6

RHECO - LENADO, Inc.

Interval	Lithological Description	% Core Recov.
0 - 139'	Overburden; gravels, large boulders, mostly granite; till, alluvium, colluvium, talus.	
139 - 143	Possibly overburden, but probably top bedrock consisting of leached, arkosic sandstone (Minturn?) contaminated by granite pebbles.	
143 - 157	Mixture, Minturn-like buff-colored altered leached sandstone-qtzite, arkosic; partly calcareous, med. gry siltstone and claystone mixed w/sand; white decomposed feldspars. Non-fossil	65
157 - 163	Breccia - sandstone, gry siltstone, lt. olive clay	85
163 - 167	Lt. Gry-Med. Gry claystone	6
167 - 172	Same	4
172 - 205	No core; no sludge. Evidently Fault Zone.	0
	Second Run, after cementing to 160 ft. to deflect bit, attempted "dry sampler" without effect; Cased down with "B", drilled BX as follows (including complete sludge-cuttings return):	
161 - 218	Blue-gry slightly calcareous silty sandstone w/much clay and several tan, soft leached zones; dolomite-sandstone mixed, much brecciated.	4
218 - 223	Med. gry dol. breccia w/tan altered dolomitic void fillings. Appearance of Leadville Dol.	40
223 - 243	Ground-up med. gry talc-breccia Dolomite. White altered Feldspar (?) soft gouge. 5% yellow-red alteration.	30
243 - 245	Dark gry- red Sandy dolomite	65
245 - 253	Med. to lt. gry sandy dolomite, massive and hard. brn oxide flecks on cleavage. Greenish cast	80
253 - 263	Lt. gry to grn-yllw gry leached and vuggy dol. rehealed breccia. FeS_2 ckusters; visible PbS at 256'. Appearance of altered Leadville.	90
263 - 265	Green to brn Dol. gouge-breccia, very sandy; Altered, some vugs; Fe stain or Zn ?	90
265 - 285	Dol. breccia gouge w/soft clay; 5% hard core of drk. brn - grn sandy dol. Friable. brn stain.	45
285 - 300	Alternate bands solid core and clay gouge, changing every two feet. Lt. gry sandy dol. breccia; gouge is generally darker gry to red. Slickensides at 289'. Kaolinized ?	73
300 - 309	90% dark gry-purple "terrazzo" breccia-dolomite. 10% light gry same. Sandy in part. Phlogopite mica.	100
309 - 314	dk. brn-gry very sandy dol. some breccia. blk stain white 312 - 313; white gouge 313 - 314, sandy. Phlogopite mica, bronze to yellow.	100
314 - 320	Mixture Terrazzo breccia, sand, lt gry dol. yellow cast; black slickensided seams	100

RHECO - LENADO, Inc.

Interval	Lithological Description	% Core Recov&
320 - 327	Bull qtz @ 320'; whit to greenish-gry to drk red brn dolomite; breccia gouge w/qtz inclusions	100
327 - 329	Altered lt. gry dolomite, w/calcite and yellow buff clays; appearance of Leadville formation	100
329	Bottom of hole on March 1.	
329 - 343	Buff gry Dol, leached, altered & brecciated	15
343 - 353	Ground-up pebbly, altered Dol. breccia; friable; buff gry & med gry.	35
353 - 358	All-color, friable Dol. lime breccia; $CaCO_3$ veinlets; jarosite a brn. stain	100
358 - 375	Sandy, limy dol. breccia. Buff-gry, yellow calcite & silica inclusions fading to clay breccia about 360 - 375.	38
375 - 380	Highly altered buff sandy dolomite-sandstone. some quartz	38
380 - 386	Buff Dol-sandstone & med Gry sandy dol w/pink dol. veinlets; white-speckled	75
386 - 403	Buff to lt. gry dol.sandstone; some med gry to lt. gry cherty dol.	47
403 - 413	Pinkish med. gry dolomitic sandstone; sparse qtz. fine dark laminae @ 30° pink dol. veinlets; last 6" core is rounded pebbles sstone, w/10% qtz.	15
413 - 418	No Core	0
418 - 423	Lt. gry sstone and drk to med gry fine grained dolomite. Leadville appearance	30
423 - 447	Blue gry, fine-grained, hard, Leadville (?)	8
447 - 457	Same; w/gry mud & clay; looks like "Zebra" Leadville	50
457 - 467	"Sericitized" (?) schisty Dol. w/sand inclusions	19
467 - 482	Same, w/qtz stringers; slickensided; sparse calcite	13
482 - 497	Same w/more qtz & calcite; sparse FeS_2 Leadville?	13
497 - 502	Sandy qtzite w/calcite breccia & Dol. gry-white; sparse FeS_2; spots of lt. gry lime	80
502 - 510	Same; more cemented Sstone lt. gry	50
510 - 512	Cemented sanstone; pebbles w/dolomite cement	25
512 - 517	Leadville-appearing dolomite; no sand; wht.calcite sparse FeS_2	40
517 - 528	Return to cemented sand pebbles & Dol. lt gry with black carbon seams, like Belden	40
528 - 540	Gry-brn cherty dolomite, very hard & fine grained; highly brecciated; increase in FeS_2	17
540 - 545	Sandstone again w/dolomite cement	20
545	End of DDH 6 March 13, 1968	

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
FEDERAL CENTER, DENVER, COLORADO 80225

Office of Minerals Exploration
Building 53 Room 203

OFFICIAL COPY

February 28, 1968

Memorandum

To: Chief, Office of Minerals Exploration

From: Field Officer, Region III

Subject: OME-6415 (Silver)
Richmond Hill Exploration, Inc.
RHECO - Lenado Area
Pitkin County, Colorado
Contract 2236

Transmitted herewith are the original and two copies of MME Form 60 "Operator's Monthly Voucher" and MME Form 61 "Operator's Progress Report" plus the narrative report on the above-stated subject for the month of January, 1968.

J. William Hasler

J. William Hasler,
Field Officer, Region III
Office of Minerals Exploration

Enclosures

MME FORM 60
SEPT. 1959

OFFICIAL COPY
O. M. E.
RECEIVED
MAR 8 1968
INITIALS | CODE

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

Docket No. OME-6415
Contract No. 14-23-090-2236
Contract Amount $78,800.00
Gov't. Participation % 75 $ 59,100.00
Mineral(s) Silver

OPERATOR'S MONTHLY VOUCHER

For Month of January, 1968

Operator's Name RHECO - LENADO, INC.
Address P. O. Box 939, Aspen, Colorado 81611

COST CATEGORIES	FOR OPERATOR'S USE			FOR GOVERNMENT APPROVAL ONLY		
	MONTHLY TOTAL	PREVIOUSLY REPORTED	TOTALS TO DATE	MONTHLY TOTAL	PREVIOUSLY REPORTED	TOTALS TO DATE
Fixed Unit Costs and						
(1) Independent Contracts:						
Bulldozing	330.00	552.00	882.00			
Drifting Reaming	0	429.40	429.40			
Cr Standby Time	0	484.00	484.00			
Drilling Dia.Core	1384.80	18,761.56	20,146.36		18,761.50	20,146.30
cementing time	350.00	4,587.50	4,937.50			
mobilization 50%	0	175.00	175.00			
(2) Personal Services:						
Supervision & Technical	910.00	6,673.33	7,583.33	606.67		7,280.00
Outside Consultants						
Labor	400.00	4,073.12	4,473.12			
(3) Operating Mat'l. & Supplies:						
Timber						
Explosives						
Pipe						
Rail Water Haul	9.96	13.68	23.64			
cement additives	45.00	1,540.73	1,585.73			
core boxes	18.00	147.00	165.00			
in-hole surveying	36.00	336.00	372.00			
casing lost in hole	480.00	679.86	1,159.86			
(4) Operating Equipment:						
Rental Water truck	190.00	332.50	522.50			
Purchase Surv. Instrument	75.00	450.00	525.00			
Truck Driver, etc.	499.47	686.63	1,186.10			
(5) Initial Rehab. & Repairs:						
Buildings, Fixtures, etc.						
Operating Equipment						
(6) New Buildings, Fixtures, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Analytical Work	365.00	1,551.00	1,916.00			
Payroll Taxes	101.71	885.48	987.19	88.36		973.84
Employee's Liability Ins.						
Vehicle mileage	90.84	1,167.72	1,258.56		1,166.64	1,257.48
Accounting, office	40.00	293.33	333.33			
		$43,819.84				
TOTALS	$5,325.78		$49,145.62	5,009.10	43,818.70	48,827.80

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

Date Feb.17,'68 *Payee Rheco-Lenado Inc.

Per Henry L. Stern Title V. Pres.

* 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.

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

(INSTRUCTIONS ON REVERSE)

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

$3,756.82 14X0804

Signature _____ (Authorized Certifying Officer)

Date MAR 8 1968 Vou. No. 05588

(SEE OTHER SIDE)

Certification by Government Representative:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating an exploration project in accordance with the terms of Contract No. 2236

Signature J. William Hasler Title Field Officer Date 2/27/68

Approved by OME Executive Officer or Alternate:

Signature J. William Hasler Title Field Officer Date 2/27/68

OPERATOR'S MONTHLY REPORT

The Operator, under an Office of Minerals Exploration contract, is required to report monthly to the Government. The report consists of three parts.

FIRST, the Operator's Monthly Voucher on MME Form 60 listing the project costs incurred and claimed by the Operator is the voucher basis for payment of the Government's share of the cost.

SECOND, the Operator's Progress Report on MME Form 61 is a statistical report of the units and cost of of work performed under the contract.

THIRD, the Operator's Narrative Report is a concise description of the work performed, results accomplished, and any unusual situations encountered, illustrated and supported by engineering-geological maps or sketches, drill hole logs, assay reports, etc., as pertinent.

The Operator submits the original and four copies of each of the three sections of this report to the OME regional Executive Officer at the end of each month during the life of the contract.

PREPARATION OF OPERATOR'S MONTHLY VOUCHER, MME FORM 60

After all applicable spaces are filled in, the Operator or his agent must sign the certification in the lower left corner. Categories (2) through (7) apply to "Actual Cost" contracts only.

Under "Fixed Unit Costs" and Category (1) report, (a) the total fixed unit costs of work performed under contract provisions for contribution by the Government on a basis of "fixed unit costs"; and (b) the claimed costs of work performed on a unit-price basis by independent contractors.

Under Category (2) include the claimed costs of all payrolled and invoiced supervisory, technical, and labor personnel, except the costs for services applicable to Categories (5) and (6).

Under Category (3) include the claimed costs of all project materials and supplies other than those used for work under Categories (5) and (6).

Under Category (4) report claimed rentals on equipment belonging to a third party, claimed payments or obligations for payments on the Operator's purchase of equipment, and claimed depreciation for the use of Operator-owned equipment.

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Except for amounts claimed under "fixed unit costs" provisions of the contract, all costs claimed in this voucher must be supported by documentary evidence consisting of: (a) certified copies or transcripts of payrolls which list each employee, wage rate, period of employment, gross earnings, itemized deductions, and net earnings; (b) original or certified copies of invoices, statements of accounts, or purchase orders which indicate items of materials or services, quantities, unit prices, total charges, and payment terms; and (c) certified memoranda of the Operator for such items as depreciation of Operator-owned equipment, unemployment taxes, and employee's liability insurance. The certification may be stated thus, "Certified True Copy (or Transcript)", followed by the signature of the Operator or his agent. One copy of each document should accompany the original of this voucher.

The requirement for submitting documentary evidence of claimed costs may be waived by the OME regional Executive Officer if he determines that it is impracticable for an Operator to submit this material. In any case of waiver of this requirement an "on-site" audit by an OME auditor is mandatory prior to payment of the final Operator's Monthly Voucher.

3/1/68/KMS

MME FORM 61
SEPT. 1959

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

OPERATOR'S PROGRESS REPORT For Month of January, 1968 Docket No. OME-6415

Operator's Name RHECO - LENADO, Inc. Contract No. 14-23-090- 2236

OPERATION	UNITS	FOR OPERATOR'S USE: UNITS THIS MONTH	UNITS TO DATE	COSTS TO DATE	FOR GOVERNMENT USE: APPROVED UNITS THIS MONTH	APPROVED UNITS TO DATE	APPROVED COSTS TO DATE
Drilling: Labor; Ass't; salary				4,473.12	1	8+47Hrs	4,590.62
Crosscutting: casing in hole	ft.	160	508	1,159.86	160	508	1,159.86
Raising: In-hole survey	hrs.	3	31	372.00	3	31	372.00
Shafts: Reaming	ft.	0	113	429.40	0	113	429.40
Winzes: Bulldozing	hrs.	22	60½	882.00	22	60½	882.00
Other Underground: Standby	hrs.	0	44	484.00	0	44	484.00
Drilling, Core-Diamond	ft.	178	2,779	27,729.69	178	2,779	25,202.84
core boxes Rotary	no.	18	165	165.00	18	165	165.00
Drilling, Non-core-Diamond							
Water truck Rotary Rent.	Mo.	1	2 3/4	522.50	1	2 3/4	522.50
Surv. Inst. Churn Rent.	days	1	7	525.00	1	7	525.00
Water Haul Percussion	miles	83	197	23.64	83	197	23.64
Miscellaneous: Cementing	hrs.	28	395	4,937.50	28	395	4,937.50
Additives	sacks	6	219	1,585.73	6	219	1,585.73
Roads and Trails							
Truck driver, etc.	hrs.	166	388	1,186.10	166	388	1,186.10
Trenching							
Test Pitting							
Vehicular miles	miles	757	10,479	1,258.56	757	11,309	1,353.48
Initial Rehabilitation and Repairs	Mobilization 50%			175.00			175.00
Rehabilitation of Mine Workings	accounting, office			333.33			333.33
New Buildings, Fixtures, etc.	Payroll taxes, Ins.			987.19			845.36
Operating Equipment Purchases							
Analytical Work				1,916.00			1,916.00
TOTAL TO DATE (per MME Form 60)				$49,145.62			46,669.36

REMARKS

(Continue on back)

REMARKS

Disallow $303.33 for Supervision & Technical service. Disallow 13.35 FICA for Supervision and Technical Services

(Continue on back)

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

Date Feb. 17, 1968 Operator RHECO - LENADO, Inc.

Per Henry S. Atty Title V. Pres.

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

I certify that the information above is complete and accurate to the best of my knowledge and belief.

Signature J. William Hasler

Title Field Office
Government Representative

Date February 27, 1968

(INSTRUCTIONS ON REVERSE)

REMARKS *(Cont.)*

REMARKS *(Cont.)*

INSTRUCTIONS FOR PREPARING OPERATOR'S PROGRESS REPORT, MME FORM 61

This report is the second of the three parts of the Operator's Monthly Report. Submit the original and four copies.

The cost for each operation should be the total of all claimed costs attributable to that type of work with two exceptions, namely—operating equipment purchased and analytical work which are stated separately. For example, drifting costs should be the total of all costs chargeable to drifting including supervision, technical services, timbering (if any), etc. Similarly, drilling costs should include the cost of cementing, reaming, core boxes, etc. This procedure of distribution holds whether the contract was written on an actual cost or a unit cost basis, or some combination of the two. Distribute the cost of such general items as supervision, equipment rented, etc. according to relative footages or on some other conventional basis. The item "Initial Rehabilitation and Repairs" covers all rehabilitation and/or repairs other than the rehabilitation of mine workings.

The item titled "Drilling, Non-core Percussion" includes all drilling performed with wagon, jack-hammer, stoper and mounted drills. The several items labelled "Other" are provided to take care of particular exploration operations not specified on this form.

UNITED STATES
DEPARTMENT OF THE INTERIOR
Geological Survey
Branch of Budget and Finance
Washington, D. C. 20242

ADMINISTRATIVE SUSPENSION STATEMENT

Name and Address of Payee:

Rheco - Lenado, Inc.
P.O. Box 939
Aspen, Colorado 81611

Amount Claimed:	Differences (Explained Below)	Amount Approved
$5,325.78	$316.68	$5,009.10 $3,756.82 Government Participation
Bu. Voucher No.	Payee's Invoice No.	Period
	Docket # 6415 Contract # 2236	January 1960

EXPLANATION

Supervision & Technical claimed			$910.00	
Maximum allowable (per contract)		$7,280.00		
Total approved thru December 1967		6,673.33		
Balance remaining and approved Jan. 68			606.67	
Disallowed				$303.33
Payroll taxes claimed			101.71	
Allowed: F.I.C.A. 4.4% of 1,006.67 =		44.29		
State Compensation Ins. 5.29% of 833.00 =		44.07		
Total Approved Jan. 68			88.36	
Disallowed				13.35
Total Disallowed				$ 316.68

Any reclaim for items deducted must be included as a separate item on subsequent monthly voucher and supported by the original of this statement.

JDM

Branch of Budget and Finance

NARRATIVE REPORT OF OPERATIONS FOR MONTH OF JANUARY, 1968

RHECO - LENADO, INC., Operator

Lenado Area, Pitkin County, Colorado

Docket No. OME-6415

Contract No. 14-23-090-2236

OME Region RECEIVED FEB 21 1968 Denver, Colorado

Drilling continued in DDH 5 with 178 ft. of advance, from a depth of 454' on January 1 to a final bottom depth of 632', completed during the month. At 456' the core size was reduced from NX to BX, which was used to complete the hole. A log of this advance, with abreviated lithology, is attached. Core recovery was variable, from 5% in a fault zone to 100% in competent limestones or dolomites. There was no water return, hence no sludge samples.

As did three of the four previous holes, DDH 5 proved the existence of an unexpected transverse fault. Reference is made to the attached log, and to the graphic picture of this hole on the attached Plan Map of Exploration, scale 1" = 100'. At 370' we crossed from the Belden formation into the Leadville, which continued to 531', the last 41' being the basal Gilman sand member of the Leadville. From 531' to 570' we cored the Dyer Dolomite. To this depth all of DDH 5 showed normal stratigraphic sequence. Then, however, after crossing a strong fault zone from 570' to 582', we re-entered the Belden limes and shales, which continued to the hole bottom of 632 feet. Assuming a normal westerly formational dip, the "new" fault must be downthhown to the south, or the reverse of the Lenado Fault. For no particular reason, other than explaining some unusual geological sections of Lenado Mine workings made by a Mr. Freeland in 1893 (vertical sections included in our November Report), we envision this fault to be roughly parallel to the Lenado Fault, with both faults intersecting somewhere between the Leadville and Aspen-Contact tunnels. This would form an up-block "island" through which we drilled the full width of Leadville dolomite.

The geological picture between DDH 5 and DDH 8 on the Contract Map, and farther to the southwest to the BiMetallic workings thus remains not only unresolved but increasingly complicated by this new fault. It should be noted that this same area yielded high geochemical counts for metallic content and, with the addition of another transverse fault, the area becomes more attractive for exploratory drilling.

Despite the geochemical "highs", the full width of Leadville with its basal Gilman sand member, the Silver Fault contact, and the

crossing of two major transverse faults, the cores from DDH 5 were disappointingly barren of sought-for mineral. Samples from all hopeful zones assayed virtually nothing. The rock was unaltered and unbleached, and the only metal noted was iron pyrite in scattered clusters.

Because of the generally unfavorable indications in DDH 5, the first and only hole in the "Phase II" Area, a meeting was held on January 9 in the Denver Offices of the O.M.E. to discuss the advisability of abandoning this hole and area for the time being, and to return to the Phase I Area, where good mineral values had been cut in previous holes. Mister Hasler of the O.M.E., Mr. Bruce Bryant of the Geological Survey, and Mr. Kellogg, representing the Operator, attended the meeting. The location of DDH 6, to be drilled next, was determined, although it was decided to continue DDH 5 another hundred feet or so before stopping it (this was before it crossed the new cross-fault and re-entered the Belden).

DDH 6 is located at approximately 4822' North, and 5412' East, bearing N. 58° E., with a dip inclination of minus 60° (reference: our attached Plan Map of Exploration, scale 1" = 100'; our letter justifying the move to DDH 6 of January 18, with attached maps, and written approval from J. William Hasler, dated January 29.) After bulldozing of new access roads, considerable snow removal, and a drill site, the rig was moved to this new location, and lined up in position for dip and strike. Since the crew was drilling overburden, mostly granite boulders, the Operator did not visit the rig again until January 30. On this date it was found that the hole was 13° off, bearing N. 71° East instead of N. 58° East. Due to the critical positioning of this hole for its targets, and after learning that "whipstocking" with a wedge was not technically feasible, we stopped them after they had penetrated 105 feet of overburden, and reset the rig to the correct bearing. Of course this meant redrilling the 105 feet, and this is not claimed on the attached MMB Forms 60 and 61. At month's end the drill contractor was just commencing the new, corrected hole.

John P. Kellogg

John P. Kellogg
General Manager

THE COMPUTATION OF MISCELLANEOUS COSTS FOR JANUARY, 1968

1. Payroll taxes: (a) FICA @ 4.4% x $1,310.00 ($910 supervision & technical plus $400.00 labor) = $57.64 plus (b) State Compensation Insurance @ 5.29% (new) x $833.00 ($433 Supervision + $400 Labor) = $44.07 = total: $101.71

2. Vehicular mileage: Jeep speedometer reading 2/1 40,204
1/1 39,503

	701	
Private car, voucher attached	56	
No. miles, @ 12¢	757	90.84

3. BX Casing lost in hole; not requested by Operator: 160 ft. @ $3.00 480.00

4. Additives claimed: 6 sacks at $7.50 45.00
(Boyles charge is " " 8.92 =$53.52)

5. Water Truck Driver, straight time plus overtime = 166 hours for a total, including payroll tax and insurance, of $499.47, or $3.01/hr (O.M.E. contract is $3.51/hr.)

6. Bulldozing was for new access roads, snow removal and drillsite for DDH 6

RHECO - LENADO, Inc.

LITHOLOGY			ASSAYS				
Interval	Description	% Core Recov.	Interval	Oz. Au.	Oz. Ag.	% Pb.	% Zn
309-324	Blk limy carb. shales; 40% med. gry dolom lms. Wht. Dol. veins @ 60°, 85° & 90°	100					
324-344	Coaly blk limy carb. shales; some drk gry; some blk. lms. sheared and gougy near end. 60° - 90° veins	100	364-366	0.005	0.1		
			367-369	Tr.	0		
344-370	Coaly blk shales; sparse med gry lms; breccia lms w/dolomite; 75° to 90° veinlets; highly carbonaceous in part.	100					
370'	Top of Leadville Formation						
370-378½8	Med. to dark gry Dolomite, brecc-iated, w/gouge; lt. gry dol. " " w/bluish-lavender cast. Some Blk. gouge	100	377-378	Tr.	0		
			378-379	Tr.	0.1		
378½-394	Dol. breccia lt to med gry, with med. gry groundmass	100	381-382	Tr.	0		
			385-386	Tr.	0		
394-400½	Same as above	65	387-388	Tr.	0		
400½-405	Same as above	100					
405-416	Same as above	40					
416-454	Same as above, definitely Leadville; 60° shears; some "Zebra rock" appearance	95					
			Hole bottom 1/1/1968				
454-490	Med. to dark gry cherty dolomite; some brecciation; lower 2" sandy	15					
490-531	Gilman Sand; lt gry sandy dol. w/qtz grains; several tan altered zones.	(490 - 495 80% recov. 495 - 515 60% " 515 - 531 5% ")					
531-570	Dyer Dolomite; lt gry; brecciated; some light gray chert	(10 to 28% Recov.)					
570-582	Fault Zone; blk talcy flt gouge; fragments dk gry ls	5					
582-584	Belden Limestone; lt gry to blk; pyrite clusters, tiny xtals	100					
584-632	Belden carbonaceous shales, limy; some close-spaced pyrite veins replaced bedding; coally material; white calcite stringers.	(20 - 85% Recov.)					
632	DDH 5 bottomed, January 1968						

LENADO CORE HOLE ASSAYS

To Accompany January, 1968 Report & Voucher

I. DDH 3 - Core

Sample Number	Interval	Oz. Au.	Oz. Ag.	% Pb.	% Zn.	Remarks
1002	117 - 125		0		0.4	
1003	129 - 131		0.02		0.4	
1004	141 - 143		0.08		Tr.	
1005	146 - 147		0.06		Tr.	
491	147 - 149		0		Tr.	
492	149 - 151		0		0.2	
494	158 - 161		0		0.3	
493	162.5-163	Tr.	Tr.	Tr.	Tr.	
495	164 - 168.5		0.02		Tr.	
496	176 - 181		0.05		0.2	
500	183 - 186		0		0.9	
497	216 - 221		0.04		0	
498	221 - 226.5		0.02		0.9	
499	226.5-231		0		0.9	
501	237 - 241		0.02		0.2	
502	250 - 256		0		Tr.	
503	266 - 270		0		0	
504	270 - 272		0		0	
505	279 - 281		0.03		Tr.	Minturn
506	287 - 292		0		Tr.	291'
507	318 - 322		0.02		Tr.	
508	336 - 341		0		0.1	Belden
509	344 - 351		0		Tr.	
513	431 - 436	Tr.	0.6			
510	446 - 448	Tr.	1.6			
511	448 - 451	Tr.	1.0			
512	451 - 453	Tr.	0.4	0.6		
514	501 - 511	Tr.	0	Tr.		
515	511-511.7	Tr.	0			
516	511.7-521	0	0			
517	521 - 526	0	0	0		
518	526 - 531	0	0	0		
519	531 - 534	0	0	0		
520	534 - 541	Tr.	0.2			
521	541 - 546	0	0			
522	546 - 555	0	0			
523	555 - 561	0	0			
524	561 - 566	0	0			
525	566 - 569	0	0			
526	569 - 571	0	0			
527	571 - 576	0	0			
528	576 - 581	Tr.	0			End October, 1967
529	581 - 591	0	0.1			
530	591 - 601	0	0.1			601 - 606 N/R
531	606 - 611	0	0	0	0.2	

LENADO CORE HOLE ASSAYS

To Accompany January, 1968 Report & Voucher (Page 2)

II. DDH 3 - Sludges-Cuttings

Sample Number	Interval	Oz. Au.	Oz. Ag.	% Pb.	% Zn.	Remarks
532	201 - 206	0	0.1			
533	206 - 211	0.025	0			
534	211 - 216	0	0.2			
535	216 - 221	0	0	Tr.	0.2	
536	221 - 227	Tr.	0	Tr.	0.1	
537	227 - 231	Tr.	0			
538	231 - 237	Tr.	0			
539	237 - 241	0	0			
540	241 - 246	0	0.1			
541	251 - 256	0	0			

III. DDH 5 - Core only; no sludge returns

542	37 - 38	0	0		0.1	
543	38 - 39	0	0.1		0.1	
544	42 - 42.5	0	0		Tr.	
545	46 - 46.5	0	0.3		Tr.	
546	50 - 52	0	0		Tr.	
547	80 - 80.4	Tr.	0.1		0.1	
548	81 - 81.3				Tr.	
549	83 - 84	Tr.	0	0.20	Tr.	
550	86 - 86.8	0	0		Tr.	
551	88 - 88.4	0	0.1		Tr.	
552	89 - 89.4	0	0		0	
553	91 - 91.5	Tr.	0		Tr.	
554	119 - 119.3	0	0		0	
555	121 - 121.4	Tr.	0		0	
556	124 - 125	0.005	0			
557	129 - 129.5	Tr.	0			
558	142 - 146	Tr.	0		0	
559	156.5-159	0	0		0	
560	140 - 140.5	0	0		0	
561	147.5-148	0	0		0	
562	155 - 156	0	0	0	0	
564	162.5-163	0	0	0	0	
565	169 - 170	0	0		0	
566	171 - 172	0	0.1	0	0	
567	177 - 178	Tr.	0	0	0	
568	181 - 182	0	0	0	0	
569	184 - 184.5	0	0	0	0	
575	364 - 366	0.005	0.1			Belden
576	367 - 369	Tr.	0			
577	377 - 378	Tr.	0			370
578	378 - 379	Tr.	0.1			Leadville
579	381 - 382	Tr.	0			
580	385 - 386	Tr.	0			
581	387 - 388	Tr.	0			

LENADO CORE HOLE ASSAYS

To Accompany January, 1968 Report & Voucher (Page 3)

Summary: Total Number of Determinations for DDH 3 and DDH 5

No. Determinations		Price	Total:
66	Au & Ag.	$3.00	$198.00
22	Ag. only	1.50	33.00
11	Pb. & Zn.	4.00	44.00
40	Zn. only	2.00	80.00
5	Pb. only	2.00	10.00
	Shown on attached MME Forms - - - - -		$365.00

MME FORM 60
SEP'T. 1959

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

OFFICIAL COPY
RECEIVED
FEB 20 1968
INITIALS COLLECTED

Desk No. QIE-6415
Contract No. 14-20-090-2236
Contract Amount 78,800.00
Gov't. Participation % 75 59,100.00
Mineral(s) Silver

OPERATOR'S MONTHLY VOUCHER

For Month of December, 1967

Operator's Name RHECO - LEMADO, Inc.
Address P. O. Box 939, Aspen, Colorado 81611

COST CATEGORIES	FOR OPERATOR'S USE: MONTHLY TOTAL	PREVIOUSLY REPORTED	TOTALS TO DATE	FOR GOVERNMENT APPROVAL ONLY: MONTHLY TOTAL	PREVIOUSLY REPORTED	TOTALS TO DATE
Fixed Unit Costs and						
(1) Independent Contracts:						
Bulldozing	150.00	402.00	552.00			
Drifting Reaming	0	429.40	429.40			
Cr Standby Time	132.00	352.00	484.00			
Drilling Dia. Core	1968.80	16,792.76	18,761.56			
cementing time	175.00	4,412.50	4,587.50			
Mobilization 50%	0	175.00	175.00			
(2) Personal Services:						
Supervision & Technical	910.00	5,763.33	6,673.33			
Outside Consultants						
Labor	400.00	3,673.12	4,073.12			
(3) Operating Mat'l. & Supplies:						
Timber						
Explosives						
Pipe						
Roll Water Haul	8.88	4.80	13.68			
cement additives	37.50	1,503.23	1,540.73			
core boxes	24.00	123.00	147.00			
in-hole surveying	24.00	312.00	336.00			
casing in hole	0	679.86	679.86			
(4) Operating Equipment:						
Rental Water truck	190.00	142.50	332.50			
Surv. Instrument	75.00	375.00	450.00			
Truck driver, etc.	613.64	72.99	686.63			
(5) Initial Rehab. & Repairs:						
Buildings, Fixtures, etc.						
Operating Equipment						
(6) New Buildings, Fixtures, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Analytical Work	0	1,551.00	1,551.00			
Payroll Taxes	107.94	777.54	885.48			
Employee's Liability Ins.						
Vehicle mileage	76.44	1,091.28	1,167.72			
Accounting, office	40.00	253.33	293.33			
		$18,886.64				
TOTALS	$4,933.20		$43,819.84			

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

Date Jan. 23, '68 *Payee Rheco-Lemado Inc

Per Henry L. Stein Title V. Pres.

* 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.

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

(INSTRUCTIONS ON REVERSE)

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

$ 3,699.90 14X0804

Signature John (Authorized Certifying Officer)

Date FEB 21 1968 Vou. No. 85262

(SEE OTHER SIDE)

Certification by Government Representative:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating an exploration project in accordance with the terms of Contract No. 2236

Signature J. William Hasler Title Field Officer Date 2/5/68

Approved by OME Executive Officer or Alternate:

Signature J. William Hasler Title Field Officer Date 2/5/68

OPERATOR'S MONTHLY REPORT

The Operator, under an Office of Minerals Exploration contract, is required to report monthly to the Government. The report consists of three parts.

FIRST, the Operator's Monthly Voucher on MME Form 60 listing the project costs incurred and claimed by the Operator is the voucher basis for payment of the Government's share of the cost.

SECOND, the Operator's Progress Report on MME Form 61 is a statistical report of the units and cost of of work performed under the contract.

THIRD, the Operator's Narrative Report is a concise description of the work performed, results accomplished, and any unusual situations encountered, illustrated and supported by engineering-geological maps or sketches, drill hole logs, assay reports, etc., as pertinent.

The Operator submits the original and four copies of each of the three sections of this report to the OME regional Executive Officer at the end of each month during the life of the contract.

PREPARATION OF OPERATOR'S MONTHLY VOUCHER, MME FORM 60

After all applicable spaces are filled in, the Operator or his agent must sign the certification in the lower left corner. Categories (2) through (7) apply to "Actual Cost" contracts only.

Under "Fixed Unit Costs" and Category (1) report, (a) the total fixed unit costs of work performed under contract provisions for contribution by the Government on a basis of "fixed unit costs"; and (b) the claimed costs of work performed on a unit-price basis by independent contractors.

Under Category (2) include the claimed costs of all payrolled and invoiced supervisory, technical, and labor personnel, except the costs for services applicable to Categories (5) and (6).

Under Category (3) include the claimed costs of all project materials and supplies other than those used for work under Categories (5) and (6).

Under Category (4) report claimed rentals on equipment belonging to a third party, claimed payments or obligations for payments on the Operator's purchase of equipment, and claimed depreciation for the use of Operator-owned equipment.

Under Categories (5) and (6) include all claimed costs of labor, supervision, technical services, operating materials and supplies, and all other items used in (5) the initial rehabilitation and repairs of existing buildings, fixtures, installations (exclusive of mine workings), and operating equipment; and (6) the installation or construction of new buildings, fixtures, and fixed improvements (exclusive of mine workings). Do not report these costs under Categories (2), (3), (4), and (7).

Under Category (7) include all miscellaneous claimed costs such as repairs (other than initial) and maintenance of equipment, sampling and analysis, travel, communication, accounting, office expenses, and the Operator's share of payroll taxes and insurance.

Except for amounts claimed under "fixed unit costs" provisions of the contract, all costs claimed in this voucher must be supported by documentary evidence consisting of: (a) certified copies or transcripts of payrolls which list each employee, wage rate, period of employment, gross earnings, itemized deductions, and net earnings; (b) original or certified copies of invoices, statements of accounts, or purchase orders which indicate items of materials or services, quantities, unit prices, total charges, and payment terms; and (c) certified memoranda of the Operator for such items as depreciation of Operator-owned equipment, unemployment taxes, and employee's liability insurance. The certification may be stated thus, "Certified True Copy (or Transcript)", followed by the signature of the Operator or his agent. One copy of each document should accompany the original of this voucher.

The requirement for submitting documentary evidence of claimed costs may be waived by the OME regional Executive Officer if he determines that it is impracticable for an Operator to submit this material. In any case of waiver of this requirement an "on-site" audit by an OME auditor is mandatory prior to payment of the final Operator's Monthly Voucher.

2/14/68/RMA

MME FORM 61
SEPT. 1959

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

OPERATOR'S PROGRESS REPORT For Month of December, 1967 Docket No. ~~OMP-6415~~

Operator's Name RHECO - LENADO, Inc. Contract No. 14-23-090- 2236

OPERATION	UNITS	FOR OPERATOR'S USE: UNITS THIS MONTH	UNITS TO DATE	COSTS TO DATE	FOR GOVERNMENT USE: APPROVED UNITS THIS MONTH	APPROVED UNITS TO DATE	APPROVED COSTS TO DATE
Labor; Ass't; salary & hr.wage				4,073.12	1	7 mo. 47 Hrs	4,190.62
Drifting							
Coaling in hole	ft.	0	348	679.86	0	348	679.86
Crosscutting							
In-hole survey	hrs.	2	28	336.00	2	28	336.00
Raising							
Reaming	ft.	0	113	429.40	0	113	429.40
Shafts							
Bulldozing	hrs.	10	38½	552.00	10	38½	552.00
Winzes							
Standby	hrs.	12	44	494.00	12	44	494.00
Other Underground							
Drilling, Core-Diamond	ft.	244	2,601	23,434.89	244	2,601	23,818.04
Core Boxes	no.	24	147	147.00	24	127	127.00
Rotary							
Drilling, Non-core-Diamond							
Water truck Rent.	No.	1	1 3/4	332.50	1	1¾	332.50
Rotary							
Surv. Inst. Rent.	days	1	6	450.00	1	6	450.00
Churn							
Water Haul	Hr.	74	114	13.68	74	114	13.68
Percussion							
Cementing	hrs.	14	367	4,587.50	14	367	4,587.50
Miscellaneous							
Additives	sacks	5	213	1,540.73	5	213	1,540.73
Roads and Trails							
Truck Driver, etc	hrs.	198	222	686.63	198	222	686.63
Stripping							
Trenching							
Test Pitting							
Vehicular miles	miles	637	9,722	1,167.72	637	10,522	1,262.64
Other Surface Work							
Mobilization 50%				175.00			175.00
Initial Rehabilitation and Repairs							
Accounting, office				293.33			293.33
Rehabilitation of Mine Workings							
Payroll taxes, Ins.				885.48			757.00
New Buildings, Fixtures, etc.							
Operating Equipment Purchases							
Analytical Work				1,551.00			1,551.00
TOTAL TO DATE (per MME Form 60)				$43,819.84			$40,763.70

REMARKS

(Continue on back)

REMARKS

(Continue on back)

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

Date Jan. 23, 1968 Operator RHECO - LENADO, Inc.

Per Henry L. Stein Title V. Pres.

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

I certify that the information above is complete and accurate to the best of my knowledge and belief.

Signature J. William Hasler

Title Field Officer
Government Representative

Date Feb. 5, 1968

(INSTRUCTIONS ON REVERSE)

REMARKS (Cont.)

REMARKS (Cont.)

INSTRUCTIONS FOR PREPARING OPERATOR'S PROGRESS REPORT, MME FORM 61

This report is the second of the three parts of the Operator's Monthly Report. Submit the original and four copies.

The cost for each operation should be the total of all claimed costs attributable to that type of work with two exceptions, namely—operating equipment purchased and analytical work which are stated separately. For example, drifting costs should be the total of all costs chargeable to drifting including supervision, technical services, timbering (if any), etc. Similarly, drilling costs should include the cost of cementing, reaming, core boxes, etc. This procedure of distribution holds whether the contract was written on an actual cost or a unit cost basis, or some combination of the two. Distribute the cost of such general items as supervision, equipment rented, etc. according to relative footages or on some other conventional basis. The item "Initial Rehabilitation and Repairs" covers all rehabilitation and/or repairs other than the rehabilitation of mine workings.

The item titled "Drilling, Non-core Percussion" includes all drilling performed with wagon, jack-hammer, stoper and mounted drills. The several items labelled "Other" are provided to take care of particular exploration operations not specified on this form.

INT DIP D C 59- 27162

January 23, 1968

OME Region III
RECEIVED
JAN 29 1968
Denver, Colorado

Mr. J. William Hasler, Field Officer
Office of Minerala Exploration
U. S. Department of the Interior
Building 53, Room 203, Federal Center
Denver, Colorado 80225

Re: OME-6415 (Silver)
Lenado Area
Contract 2236

Dear Bill:

Under cover of this letter are one original and three copies of our Report of Operations for December, 1967. Included in each of the four reports are the Narrative, the completed and signed MME Form 60 Voucher, the completed and signed MME Form 61 Progress Report, an extra page fpr the computing and clarification of miscellaneous costs, and the log for DDH 5 to the month's end depth of 454 feet, including lithological and assay intervals. Since this hole was completed in January we will include a graphic section in that month's Report.

Attached to the original copy are: Boyles Bros original invoice for December, and Xerox copies of our voucher checks for office rent, payroll, and bulldozing that was done in November but billed late in December.

I note in our December 18 letter covering our November Report that we "hit Leadville dolomite at 382 feet". Subsequent review of the core has determined that this dolomite first appeared at 370 feet, as shown on the attached log.

By tomorrow the drillers should be moved to the new hole, DDH 6, as explained and illustrated with our letter of January 18.

I have exhausted our supply of MME Forms, and could use some.

Sincerely yours,

John P. Kellogg

John P. Kellogg,
General Manager

enclosures

NARRATIVE REPORT OF OPERATIONS FOR MONTH OF DECEMBER, 1967

RMECO - LENADO, Inc., Operator

Lenado Area, Pitkin County, Colorado

Docket No. OMS-6415

Contract No. 14-23-090-2236

-

Drilling continued in DDH 5, with 244 feet of advance, from a depth of 210 feet on December 1 to a depth of 454 feet on January 1. This advance was cored NX size for nearly 100% recovery. There was no water return, hence no sludge or cuttings. Lithologically this advance drilled typical basal Belden and into the Leadville formation. The Lenado Fault was crossed from about 290' to 309', and the Leadville dolomite was encountered at 370 feet. What few assays were taken, in the vicinity of the "Silver Fault" at the Belden-Leadville Contact, were virtually nil. A log of December's drilling is attached.

There was no sign of alteration in any of the core, and no visible mineral other than sparse pyrite in the lower Belden. These results have been disappointing, and plans were made to move soon to the more favorable "Phase I" area.

John P. Kellogg

John P. Kellogg
General Manager

THE COMPUTATION OF MISCELLANEOUS COSTS FOR DECEMBER, 1967

1. Payroll Taxes: FICA @ 4.4% plus State Compensation Insurance @ 3.84% = 8.24% X $910.00 Supervision & Technical plus $400.00 labor = $1,310.00 = $ 107.94

2. Vehicular mileage: Jeep speedometer reading 1/1 39503
   12/1 38866
   No. miles, @ 12¢ 637 76.44

3. Core Boxes: Boyles' Invoice for 24 boxes is exact number used for 244' of core, nearly 100% recovery plus marker blocks.

4. Additives: actual cost charged by drill contractor was $41.18 for 5 sacks, or $8.24/sack. Contract allowance per sack is $7.50, or: 37.50

5. "Delay Time" charged by contractor is "Standby", due to waiting for bulldozer to remove snow on access roads.

6. Bulldozing claim of $150 was for work done in November. Their statement not received until middle of December.

7. Water truck driver: straight time, overtime and payroll taxes + insurance = contractor's total of $613.64 for 198 hours, or $3.10/hr., which is $0.41 less than contract allows.

8. Assays since October's Voucher listing to be tabulated, calculated & claimed in future.

RHECO - LENADO, Inc.

LITNOLOGY			ASSAYS				
Interval	Description	% Core Recov.	Interval	Oz. Au.	Oz. Ag.	% Pb.	% Zn
173-175	tbl. & dark gry lms.	100					
175-176	" , altered & gougy	100					
176-179	" , dark gry lms. 70° - 90° stringers. End of Terrazzo breccia limestones	100	177-178	Tr.	0	0	0
179-181	lms. breccia; 60° veinlets; sparse pyrite	100					
181-183	Altered bredciated dark gry lms. Fe alteration; boxwork	100	181-182	0	0	0	0
183-185	gry lms. 70° + 85° stringers; sparse pyrite in veinlets	100	184-184.5	0	0	0	0
185-190	Altered lms. & gouge; finely brecciated in part	100					
190-192	Lms. breccia; altered, tan	100					
192-194	Med. gry lms. breccia	100					
194-199	gougy shale & med gry lms. with 60° stringers	70					
199-203	lms. breccia & clay gouge; tan	25					
203-206	lt. gry lms. 48° dips; 50° dips on stringers	100					
206-210	lms. same as above; 60° & 85° stringer dips	100	Hole bottom 12/1/1967				
210-222	lms. same as above;55° stringers ptly brecciated; sparse Fe	80					
222-229	med. gry lms; brecciated; 55° vein dip	100					
229	Top Of Black Shale Sequence						
229-234	dolomitic lms. breccia; 40% gry blk limy shales; 60° stringers	100					
234-264	Shales; with gry dol. lms and lms breccia 60° - 90° shears;	100					
264-273	lms and shale; breccia; drk gry	90					
273-283	Blk to drk gry shale; 35% drk gry lms; 30° lam; 60° shears 8" clayey coal @ 283'	100					
283-290	40% coaly blk shales; 60% lms and drk gry shaly lms	85					
290	Begin. Lenado Fault						
290-304	Med. gry to dark talcy gouge,lt. gry to med lms. 45° - 65° vein dips; iron pyrite clusters	100					
304-309	salt and pepper lms., shaly lms. 45° gouge shears; blk carb.shale	100					
	End of Lenado Fault ?						

RHECO - LENADO, Inc.

LITHOLOGY			ASSAYS				
Interval	Description	% Core Recov.	Interval	Oz. Au.	Oz. Ag.	% Pb.	% Zn
309-324	Blk limy carb. shales; 40% med. gry dolom lms. Wht. Dol. veins @ 60°, 85° & 90°	100					
324-344	Coaly blk limy carb. shales; some drk gry; some blk. lms. sheared and gougy near end. 60° - 90° veins	100	364-366	0.005	0.1		
			367-369	Tr.	0		
344-370	Coaly blk shales; sparse med gry lms; breccia lms w/dolomite; 75° to 90° veinlets; highly carbonaceous in part.	100					
370'	Top of Leadville Formation						
370-378½8	Med. to dark gry Dolomite, brecciated, w/gouge; lt. gry dol. " " w/bluish-lavender cast. Some Blk. gouge	100	377-378	Tr.	0		
			378-379	Tr.	0.1		
378½-394	Dol. breccia lt to med gry, with med. gry groundmass	100	381-382	Tr.	0		
			385-386	Tr.	0		
394-400½	Same as above	65	387-388	Tr.	0		
400½-405	Same as above	100					
405-416	Same as above	40					
416-454	Same as above, definitely Leadville; 60° shears; some "Zebra rock" appearance	95					

Hole bottom 1/1/1968

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
FEDERAL CENTER, DENVER, COLORADO 80225
Office of Minerals Exploration
Building 53 Room 203

December 22, 1967

O. M. E.
RECEIVED
DEC 26 1967
INITIALS | CODE
130
120 M
110
120 S

Memorandum

To: Chief, Office of Minerals Exploration

From: Field Officer, Region III

Subject: OME-6415 (Silver)
Richmond Hill Exploration, Inc.
RHECO-Lenado
Pitkin County, Colorado
Contract 2236

Transmitted herewith are the original and two copies of the monthly voucher for November, 1967 on the above-stated subject.

I certify that the foregoing is correct and just; and recommend that payment be made.

J. William Hasler
mc

J. William Hasler,
Field Officer, Region III
Office of Minerals Exploration

Enclosures

Richmond Hill Exploration Company Inc.

P. O. Box 939

ASPEN, COLORADO 81611

Telephone 925-3717

December 18, 1967

OME Region III
RECEIVED
DEC 20 1967
Denver, Colorado

Mr. J. William Hasler, Field Officer
Office of Minerals Exploration
U. S. Department of the Interior
Building 53, Room 203, Federal Center
Denver, Colorado 80225

Re: OME-6415 (Silver
Lenado Area
Contract 2236

Dear Bill:

Under cover of this letter are one original and three copies of our Report of Operations for November, 1967. Included in each of the four reports are the Narrative, the completed and signed MME Form 60 Voucher, the completed and signed MME Form 61 Progress Report, an extra page for the computing and the clarification of miscellaneous costs, and the log for DDH 5 to the month's end depth of 210 feet, including lithological and assay intervals. Also enclosed are two prints of the following: our base Plan Map of Exploration, with geology in color, scale 1" = 100', our New Claim and Topographic Map of the same area, same coordinates, as an overlay to the above map, and two prints each of the five sections described in the Narrative. Additional copies of any of these can be made and sent to you on request.

Attached to the original copy are: Boyles Bros original invoice for November, Reese H. Henry's original invoice for accounting for November, and Xerox copies of office rent, KIVA Container Corporation's invoice for core boxes, and payroll voucher checks.

On December 15 we hit Leadville dolomite at 382 feet, and continued in it to Friday's ending depth of 408 feet. We will check the core in their new advance today. The Leadville has been added to the two prints of Section No. 2.

Sincerely yours,

John P. Kellogg

John P. Kellogg,
General Manager

enclosures

MME. FORM 60
SEPT. 1955

OFFICIAL COPY
O. M. E.
RECEIVED
JAN 9 1968
INITIALS CODE

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

Docket No. OME-6415
Contract No. 14-23-090-2236
Contract Amount $78,800.00
Gov't. Participation % 75 $ 59,100.00
Mineral(s) Silver

OPERATOR'S MONTHLY VOUCHER

For Month of November, 1967

Operator's Name RHECO - LENADO, Inc.
Address P. O. Box 939, Aspen, Colorado 81611

COST CATEGORIES	FOR OPERATOR'S USE: MONTHLY TOTAL	PREVIOUSLY REPORTED	TOTALS TO DATE	FOR GOVERNMENT APPROVAL ONLY: MONTHLY TOTAL	PREVIOUSLY REPORTED	TOTALS TO DATE
Fixed Unit Costs and						
(1) Independent Contracts:						
Bulldozing	0	402.00	402.00			
Drifting Reaming	0	429.40	429.40			
Crosscutting Standby time	352.00	0	352.00			
Drilling Dia. Core	1,946.35	14,846.41	16,792.76			
cementing time	837.50	3,575.00	4,412.50			
Mobilization 50%	0	175.00	175.00			
(2) Personal Services:						
Supervision & Technical	910.00	4,853.33	5,763.33			
Outside Consultants						
Labor	458.12	3,215.00	3,673.12			
(3) Operating Mat'l. & Supplies:						
Timber						
Explosives						
Pipe						
Rail Water Haul	4.80	0	4.80			
cement additives	247.50	1,255.73	1,503.23			
core boxes	37.00	86.00	123.00			
in-hole surveying	96.00	216.00	312.00			
casing in hole	336.66	343.20	679.86			
(4) Operating Equipment:						
Rental Water truck	142.50	0	142.50			
Surv. Rehab. Instrument	375.00	0	375.00			
Truck Driver, etc. Depreciation	72.99	0	72.99			
(5) Initial Rehab. & Repairs:						
Buildings, Fixtures, etc.						
Operating Equipment						
(6) New Buildings, Fixtures, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Analytical Work	0	1,551.00	1,551.00			
Payroll Taxes	112.73	664.81	777.54			
Employee's Liability Ins.						
Vehicle mileage	98.16	993.12	1,091.28			
Accounting, office	40.00	213.33	253.33			
		132,819.33				
TOTALS	15,067.31		138,886.64			

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

Date Dec. 15, '67 *Payee Rheco-Lenado Inc

Per John Voorhees Title President

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

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

(INSTRUCTIONS ON REVERSE)

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

$ 4,550.48 14X0804

Signature John
(Authorized Certifying Officer)

Date JAN 8 1968 Vou. No. 0441 6

(SEE OTHER SIDE)

Certification by Government Representative:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating an exploration project in accordance with the terms of Contract No. 2236

Signature J. William Haslam Title Field Officer Date 12/22/67

Approved by OME Executive Officer or Alternate:

Signature J. William Haslam Title Field Officer Date 12/22/67

OPERATOR'S MONTHLY REPORT

The Operator, under an Office of Minerals Exploration contract, is required to report monthly to the Government. The report consists of three parts.

FIRST, the Operator's Monthly Voucher on MME Form 60 listing the project costs incurred and claimed by the Operator is the voucher basis for payment of the Government's share of the cost.

SECOND, the Operator's Progress Report on MME Form 61 is a statistical report of the units and cost of of work performed under the contract.

THIRD, the Operator's Narrative Report is a concise description of the work performed, results accomplished, and any unusual situations encountered, illustrated and supported by engineering-geological maps or sketches, drill hole logs, assay reports, etc., as pertinent.

The Operator submits the original and four copies of each of the three sections of this report to the OME regional Executive Officer at the end of each month during the life of the contract.

PREPARATION OF OPERATOR'S MONTHLY VOUCHER, MME FORM 60

After all applicable spaces are filled in, the Operator or his agent must sign the certification in the lower left corner. Categories (2) through (7) apply to "Actual Cost" contracts only.

Under "Fixed Unit Costs" and Category (1) report, (a) the total fixed unit costs of work performed under contract provisions for contribution by the Government on a basis of "fixed unit costs"; and (b) the claimed costs of work performed on a unit-price basis by independent contractors.

Under Category (2) include the claimed costs of all payrolled and invoiced supervisory, technical, and labor personnel, except the costs for services applicable to Categories (5) and (6).

Under Category (3) include the claimed costs of all project materials and supplies other than those used for work under Categories (5) and (6).

Under Category (4) report claimed rentals on equipment belonging to a third party, claimed payments or obligations for payments on the Operator's purchase of equipment, and claimed depreciation for the use of Operator-owned equipment.

Under Categories (5) and (6) include all claimed costs of labor, supervision, technical services, operating materials and supplies, and all other items used in (5) the initial rehabilitation and repairs of existing buildings, fixtures, installations (exclusive of mine workings), and operating equipment; and (6) the installation or construction of new buildings, fixtures, and fixed improvements (exclusive of mine workings). Do not report these costs under Categories (2), (3), (4), and (7).

Under Category (7) include all miscellaneous claimed costs such as repairs (other than initial) and maintenance of equipment, sampling and analysis, travel, communication, accounting, office expenses, and the Operator's share of payroll taxes and insurance.

Except for amounts claimed under "fixed unit costs" provisions of the contract, all costs claimed in this voucher must be supported by documentary evidence consisting of: (a) certified copies or transcripts of payrolls which list each employee, wage rate, period of employment, gross earnings, itemized deductions, and net earnings; (b) original or certified copies of invoices, statements of accounts, or purchase orders which indicate items of materials or services, quantities, unit prices, total charges, and payment terms; and (c) certified memoranda of the Operator for such items as depreciation of Operator-owned equipment, unemployment taxes, and employee's liability insurance. The certification may be stated thus, "Certified True Copy (or Transcript)", followed by the signature of the Operator or his agent. One copy of each document should accompany the original of this voucher.

The requirement for submitting documentary evidence of claimed costs may be waived by the OME regional Executive Officer if he determines that it is impracticable for an Operator to submit this material. In any case of waiver of this requirement an "on-site" audit by an OME auditor is mandatory prior to payment of the final Operator's Monthly Voucher.

12/27/67/RMG

MME FORM 61
SEPT. 1959

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

OPERATOR'S PROGRESS REPORT For Month of November, 1967 Docket No. CMC-6415

Operator's Name RHECO - LENADO, Inc. Contract No. 14-23-090-2236

OPERATION	UNITS	FOR OPERATOR'S USE: UNITS THIS MONTH	UNITS TO DATE	COSTS TO DATE	FOR GOVERNMENT USE: APPROVED UNITS THIS MONTH	APPROVED UNITS TO DATE	APPROVED COSTS TO DATE
Drifting Labor - Ass't:	salary &	Hr. wage		3,673.12	458.12		3,790.62
Crosscutting Casing in hole	ft.	186	348	679.86	186	348	679.86
Raising In-hole survey	hrs.	8	26	312.00	8	26	312.00
Shafts Reaming	ft.	0	113	429.40	0	113	429.40
Winzes Bulldozing	hrs.	0	28½	402.00	0	28½	402.00
Other Underground Standby	hrs.	32	32	352.00	32	32	352.00
Drilling, Core-Diamond	ft.	260	2,357	22,556.09	260	2,357	21,849.64
Core Boxes Rotary	no.	37	123	123.00	37	103	103.00
Drilling, Non-core-Diamond							
Water truck rent. Rotary	No.	3/4	3/4 mo.	142.50	3/4	3/4	142.50
Surv. Inst. rent. Chip	days	5	5	375.00	5	5	375.00
Water Haul Percussion	Mi.	40	40	4.80	40	40	4.80
Miscellaneous Cementing	hrs.	67	353	4,412.50	67	353	4,412.50
Additives	sacks	33	208	1,503.23	33	208	1,503.23
Roads and Trails							
Stripping Truck Driver, etc	hrs.	24	24	72.99	24	24	72.99
Trenching							
Test Pitting							
Other Surface Work Vehicular mile.	miles	818	9,885	1,091.28	818	9,885	1,186.20
Initial Rehabilitation and Repairs	Mobilization 50%			175.00			175.00
Rehabilitation of Mine Workings	Accounting, office			253.33			253.33
New Buildings, Fixtures, etc.	Payroll taxes			777.54			649.06
Operating Equipment Purchases							
Analytical Work				1,551.00			1,551.00
TOTAL TO DATE *(per MME Form 60)*				$38,886.64			38,244.13

REMARKS

(Continue on back)

REMARKS

(Continue on back)

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 Dec. 15, 1967 Operator RHECO - LENADO, Inc.

Per John C. Sparkes Title President

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

I certify that the information above is complete and accurate to the best of my knowledge and belief.

Signature J. William Hosler

Title Field Officer
Government Representative

Date December 22 1967

(INSTRUCTIONS ON REVERSE)

REMARKS (Cont.)

REMARKS (Cont.)

INSTRUCTIONS FOR PREPARING OPERATOR'S PROGRESS REPORT, MME FORM 61

This report is the second of the three parts of the Operator's Monthly Report. Submit the original and four copies.

The cost for each operation should be the total of all claimed costs attributable to that type of work with two exceptions, namely—operating equipment purchased and analytical work which are stated separately. For example, drifting costs should be the total of all costs chargeable to drifting including supervision, technical services, timbering (if any), etc. Similarly, drilling costs should include the cost of cementing, reaming, core boxes, etc. This procedure of distribution holds whether the contract was written on an actual cost or a unit cost basis, or some combination of the two. Distribute the cost of such general items as supervision, equipment rented, etc. according to relative footages or on some other conventional basis. The item "Initial Rehabilitation and Repairs" covers all rehabilitation and/or repairs other than the rehabilitation of mine workings.

The item titled "Drilling, Non-core Percussion" includes all drilling performed with wagon, jack-hammer, stoper and mounted drills. The several items labelled "Other" are provided to take care of particular exploration operations not specified on this form.

NARRATIVE REPORT OF OPERATIONS FOR MONTH OF NOVEMBER, 1967

RHECO - LENADO, Inc., Operator

Lenado Area, Pitkin County, Colorado

Docket No. OME-6415

Contract No. 14-23-090-2236

-

Drilling continued in DDH 3, with 50 feet of advance, from a depth of 581 feet on November 1 to a final bottom depth of 631 feet. As narrated in October's Report, this hole proved the Camp Bird Fault with nearly 2,000 feet horizontal displacement; instead of penetrating the Leadville formation, we entered the Minturn, which lies 2,000 feet west, then we drilled true Belden from 290 feet to the bottom. We had virtually no hope of finding Leadville in this block, other than a "sliver" next to the Lenado Fault. We did hope to hit the fault, a known ore carrier, but at 631 feet, with no sign of fault influence in the cores, we stopped the hole. Spot sampling of the very limy cores resulted in not merely discouraging assays but practically barren rock. The sludges for this hole have been saved, but it seems wasted effort and money to have them assayed. This hole was a geological revelation, and furnished data that could aid in future discoveries (e.g., along the Camp Bird Fault), but in itself it was a disappointment.

We moved to DDH 5, just west of the Leadville tunnel portal on the attached 100 scale Plan Map of Exploration. After drilling only 25 feet of overburden, which appeared to be one large granite boulder, we entered Belden limestones and shales to a month-end depth of 210 feet. Including the overburden we have had exactly 100% core recovery with NC and NX bits. This hole, hopefully, will locate commercial silver in and on both sides of the Lenado Fault, projected to a hole depth of about 300 feet.

The location of DDH 5 is 4146' East, 4131' North, at an elevation of 8682 feet, bearing S. 34° E., at an inclination of -30°. A water truck has been necessary. (See our attached Plan Map of Exploration, with geology, and our new Claim and Topographic Map overlay, with drill holes located. Both maps are at a scale of 1" = 100 feet.) A log of this hole, with assays, is attached, with completed information for November. After 184.5 feet we stopped sampling; with all the "zero" determinations up to that point it seemed purposeless to "chance sample" until we actually recognize something of value.

Rather than continuing the usual monthly commentary, we would like to digress from the conventional at thistime, and to discuss briefly the several attached Lenado Sections. They are of interest primarily to a trained geologist, and for this reason only two prints each are being submitted, although more copies can be made if requested. Despite the technical nature of these maps certain generalities may be deduced, understandable to a non-geologist (although a broad knowledge of Aspen - Lenado geology would be helpful). They were originally mapped by Francis T. Freeland in 1893, and but recently "found" by the Operator. We have added comments, measurements, fault displacements, and certain interpretations. These rough tracings of Freeland's work are offered with no guarantee of their dependability, but the degree of their accuracy is in direct ratio to some important changes in concept of Lenado ore deposition, and hence, to possible modifications in our drilling program. The following sections (numbered on the print copies) are included:

<u>No. 1</u> Section of Aspen-Contact Mine workings showing a displaced block of Leadville dolomite within the workings, in

the area of richest production. This is in opposition to Spurr, et al, who determined that the ore had been "dragged" into place along the faults from some unknown Leadville source. Should Freeland be correct, the Leadville dolomite north of the Lenado Fault would be much shallower than heretofore assumed, and could be less than 100 feet below the lowest mine workings. This could be a major silver deposit.

No. 2 A view through the Leadville Tunnel and workings, with our current hole, DDH 5, superimposed (although not in plane with the section, bearing at an angle of 52° divergent from the tunnel). Our DDH 5 has just entered a major fault at 290 feet (12/11/'67), presumably the Lenado Fault, in position as about originally projected. Freeland's picture here is discouraging for DDH 5, with nothing but Belden ahead, but we are 300 feet southwest of the Leadville Shaft shown on the section, with indications, surface and otherwise, of another fault lying between the drill hole and the shaft, trending northwest along Tinpot, which could make anything possible beyond the fault we are in.

No. 3 Section through the "Power Winze" of Aspen Contact Mine, with no clue to the identity of the "D" dolomite, but presumably the same displaced Leadville as shown in Section No. 1. There is duplication here with No.1, but with the Leadville somewhat lower, and the Parting Quartzite differently located.

No. 4. Freeland's plan mapping of the Tillie Shaft and workings. Inasmuch as Spurr's examination, made two years later than Freeland's, and published in the U.S.G.S. Monograph XXXI in 1898, mentions no shaft depth here nor

workings, Freeland's mapping of a 270 foot shaft with over 500 feet of crosscuts and drifts, with one raise in ore, is rather surprising. Spurr does mention "ore encountered in hard blue dolomite" and finds it significant that it is in place, which lends strength to his belief that the Aspen-Contact Leadville ores will also be found "in place" lower down.

No. 5 Our projection of No. 4, above, to the vertical view looking north, determines formational dips from known surface contacts. This helps confirm the existence of the "North Woody Fault", shown as two possibilites on the attached 100 scale Plan Map (colored geology), and helps to pinpoint possible future exploratory drilling in the Tillie area.

Note: Freeland's elevations are arbitrary, to illustrate comparative vertical distances, and they bear no relationship to true regional elevations. His "W" is wash, which we call Qs, or gravels, alluvium and talus slump, undifferentiated.

John P. Kellogg

John P. Kellogg,
General Manager

THE COMPUTATION OF MISCELLANEOUS COSTS FOR NOVEMBER, 1967

1. Payroll taxes: FICA @ 4.4% plus State Compensation Insurance @ 3.84% = 8.24% x $910.00 Supervision & Technical plus $458.12 Labor = $112.73

2. Vehicular mileage: Jeep speedometer reading 12/1 38866
   11/1 38048
   No. miles, @ 12¢ 818 98.16

3. Core Boxes: DDH 3, Oct. & Nov. 24 boxes, actual count
   DDH 5, Nov. 13 boxes, actual count
   37 boxes @ $1.00 37.00

   (Supported by: Boyles' Invoice, attached, for 100 AX cord box lids, and 21 boxes; And by Kiva Corp. Invoice for 50 AX core boxes, attached. Boyles is $1.00 a box; Kiva's $0.48. These, plus original supply of Boyles and Operator's, are interchangeable, and mixed as used)

4. Additives: actual cost charged by drill contractor was $389.75 for 33 sacks, or $11.81/sack. Contract allows $7.50 a sack, for 33 sacks = 247.50
   Not included: 10 gallons Condet Additive, for $42.50, since contract calls for sacks.

5. AX casing Lost in Hole: 186' AX @ $1.81 = 336.66
   was not left at Operator's request; it was not recoverable.

6. Standby time: due to bad snow conditions at time of moving from DDH 3 to DDH 5, and inability to get bulldozer, after trying all local dozer operators, for two days.

7. Water truck rental: contract is $190/month; Boyles charged 3 weeks @ $47.50, or 3/4 of a month.

8. Water truck driver: contract is $3.51/hr ("rounded"), including FICA, etc. Boyles charge for 24 hours is $22.99 wage plus payroll taxes & insurance, or $3.04/hr.

9. Bulldozing for November, not billed yet.
   Assays to be tabulated and calculated on future voucher.

LENADO PROJECT

RHECO - LENADO, Inc.

Log. DDH 5

Hole Coordinates: 4131 N, 4146 E.
Bearing: S. 34° E., Dip: - 30°
Elevation 8682 feet

LITHOLOGY

Interval	Description	% Core Recov.
0-25	One Precambrian granite boulder	60
25-42	Altered Belden Dol. & lms., tan to dark gry; $CaCo_3$ veinlets, with 90° & 60° dips. Apparent dips on laminae are 50°. Brecciated & gougy in part	40
42-76	Belden lms. partly altered; 70° veinlets; 50° apparent dips; brecciated in part	40
76-81	Lms. breccia; partly silicified one clay zone	30
81-95	Lms. & Dol; sandy; 50° dips; brecciated in part; 90° $CaCo_3$ stringers; second set at 50°; altered & gougy in part.	40
95-113	Lms. breccia; some sedimentary breccia; some silicification; 0° to 50° dips	40
113-117	Med. gray lms. 90° vein dip & 60° 2nd set. Some boxwork	100
117-129	Med. gry lms. and lms. breccia; 30° dip; 90° on stringers	65
129-132	Dol, Lms. & Breccia. 70° & 50° dips on veinlets. 50° dip on Laminations	100
132-135	Dol, ptly altered; ptly brecciated	
135-138	Dol.breccia; ptly silicified; 70° dips on fault planes; tan alteration	100
138-142	Altered lms.; tan & gray	90
142-146	Same, with some black gouge	30
146-152	Terrazzo breccialms (tbl) 6" black gouge. 0° dips	100
152-156	tbl.(terrazzo breccia limest.)	85
156-159	tbl. Brown in part	100
159-162	tbl.	100
162-167	" dark gry & 10" blk. gouge	100
167-169	" clayey; tan	100
169-173	" dark gray	75

ASSAYS

Interval	Oz. Au.	Oz. Ag.	% Pb.	% Zn
37-38	0	0		0.10
38-39	0	0.1		0.10
42-42½	0	0		Tr.
46-46½	0	0.3		Tr.
50-52	0	0		Tr.
80-80.4	Tr.	0.1		0.10
81-81.3				Tr.
83-84	Tr.	0	0.20	Tr.
86-86.8	0	0		Tr.
88-88.4	0	0.1		Tr.
89-89.4	0	0		0
91-91.5	Tr.	0		Tr.
119-119.3	0	0		0
121-121.4	Tr.	0		0
124-125	.005	0		
129-129.5	Tr.	0		
140-140.5	0	0		0
142-146	Tr.	0		0
147.5-148	0	0		0
155-156	0	0	0	0
156.5-159	0	0		0
162.5-163	0	0	0	0
169-170	0	0		0
171-172	0.	0.1	0	0

RHECO - LENADO, Inc.

LITNOLOGY			ASSAYS				
Interval	Description	% Core Recov.	Interval	Oz. Au.	Oz. Ag.	% Pb.	% Zn
173-175	tbl. & dark gry lms.	100					
175-176	" , altered & gougy	100					
176-179	" , dark gry lms. 70° - 90° stringers. End of Terrazzo breccia limestones	100	177-178	Tr.	0	0	0
179-181	lms. breccia; 60° veinlets; sparse pyrite	100					
181-183	Altered bredciated dark gry lms. Fe alteration; boxwork	100	181-182	0	0	0	0
183-185	gry lms. 70° + 85° stringers; sparse pyrite in veinlets	100	184-184.5	0	0	0	0
185-190	Altered lms. & gouge; finely brecciated in part	100					
190-192	lms. breccia; altered, tan	100					
192-194	Med. gry lms. breccia	100					
194-199	gougy shale & med gry lms. with 60° stringers	70					
199-203	lms. breccia & clay gouge; tan	25					
203-206	lt. gry lms. 43° dips; 50° dips on stringers	100					
206-210	lms. same as above; 60° & 85° stringer dips	100					

Hole bottom 12/1/1967

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
FEDERAL CENTER, DENVER, COLORADO 80225

Office of Minerals Exploration
Building 53 Room 203

November 27, 1967

OFFICIAL COPY
O. M. E.
RECEIVED
NOV 28 1967

INITIALS	CODE
gla	130
[illegible]	20
[illegible]	110
RMA	130 S

Memorandum

To: Chief, Office of Minerals Exploration

From: Field Officer, Region III

Subject: OME-6415 (Silver)
Richmond Hill Exploration, Inc.
RHECO - Lenado Area
Pitkin County, Colorado
Contract 2236

Transmitted herewith are the original and two copies of the October, 1967 monthly voucher on the above-stated subject.

I certify that the foregoing is correct and just; and recommend that payment be made.

J. William Hasler

J. William Hasler,
Field Officer, Region III
Office of Minerals Exploration

Encls.

MMS FORM (1)
SEPT. 1959

OFFICIAL COPY O. M. E. RECEIVED

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

INITIALS

Docket No. OME - 6415
Contract No. 2236
~~14-23-090~~ ~~78,800.00~~
Contract Amount $ 75 59,100.00
Gov't. Participation % Silver
Mineral(s)

OPERATOR'S MONTHLY VOUCHER

For Month of October, 1967

Operator's Name RHECO - LENADO, Inc.
Address ~~P. O. Box 939, Aspen, Colorado 81611~~

COST CATEGORIES	FOR OPERATOR'S USE: MONTHLY TOTAL	PREVIOUSLY REPORTED	TOTALS TO DATE	FOR GOVERNMENT APPROVAL ONLY: MONTHLY TOTAL	PREVIOUSLY REPORTED	TOTALS TO DATE
Fixed Unit Costs and						
(1) Independent Contracts:						
Bulldozing	0	402.00	402.00			
Drifting Reaming	0	429.40	429.40			
Crosscutting						
Drilling Dia. Core	3,223.10	11,623.31	14,846.41			
cementing time	762.50	2,812.50	3,575.00			
mobilization 50%	0	175.00	175.00			
(2) Personal Services:						
Supervision & Technical	910.00	3,943.33	4,853.33			
Outside Consultants						
Labor	615.00	2,600.00	3,215.00			
(3) Operating Mat'l. & Supplies:						
Timber						
Explosives						
Pipe						
Rail						
cement additives	495.00	760.73	1,255.73			
core boxes	0	86.00	86.00			
in-hole surveying	48.00	168.00	216.00			
casing in hole	0	343.20	343.20			
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehab. & Repairs:						
Buildings, Fixtures, etc.						
Operating Equipment						
(6) New Buildings, Fixtures, etc.						
(7) Miscellaneous:						
Repairs to Equipment		540.50	1,551.00			
Analytical Work	1,010.50	~~539.15~~	~~1,549.65~~			
Payroll Taxes	125.66	539.15	664.81			
Employee's Liability Ins.						
vehicle mileage	107.76	885.36	993.12			
accounting, office	40.00	173.33	213.33			
		$25,481.81				
TOTALS	$7,337.52		$32,819.33			

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

Date Nov. 13, '67 *Payee RHECO - Lenado Inc

Per Henry L. Stein Title V Pres

* 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.

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

(INSTRUCTIONS ON REVERSE)

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

$ 5,503.14 14X0804

Signature [illegible]
(Authorized Certifying Officer)

Date DEC 6 1967 Vou. No. 83917

Certification by Government Representative:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating an exploration project in accordance with the terms of Contract No. 2236

Signature J. William Hasler Title Field Officer Date 11/27/67

Approved by OME Executive Officer or Alternate:

Signature J. William Hasler Title Field Officer Date 11/27/67

OPERATOR'S MONTHLY REPORT

The Operator, under an Office of Minerals Exploration contract, is required to report monthly to the Government. The report consists of three parts.

FIRST, the Operator's Monthly Voucher on MME Form 60 listing the project costs incurred and claimed by the Operator is the voucher basis for payment of the Government's share of the cost.

SECOND, the Operator's Progress Report on MME Form 61 is a statistical report of the units and cost of of work performed under the contract.

THIRD, the Operator's Narrative Report is a concise description of the work performed, results accomplished, and any unusual situations encountered, illustrated and supported by engineering-geological maps or sketches, drill hole logs, assay reports, etc., as pertinent.

The Operator submits the original and four copies of each of the three sections of this report to the OME regional Executive Officer at the end of each month during the life of the contract.

PREPARATION OF OPERATOR'S MONTHLY VOUCHER, MME FORM 60

After all applicable spaces are filled in, the Operator or his agent must sign the certification in the lower left corner. Categories (2) through (7) apply to "Actual Cost" contracts only.

Under "Fixed Unit Costs" and Category (1) report, (a) the total fixed unit costs of work performed under contract provisions for contribution by the Government on a basis of "fixed unit costs"; and (b) the claimed costs of work performed on a unit-price basis by independent contractors.

Under Category (2) include the claimed costs of all payrolled and invoiced supervisory, technical, and labor personnel, except the costs for services applicable to Categories (5) and (6).

Under Category (3) include the claimed costs of all project materials and supplies other than those used for work under Categories (5) and (6).

Under Category (4) report claimed rentals on equipment belonging to a third party, claimed payments or obligations for payments on the Operator's purchase of equipment, and claimed depreciation for the use of Operator-owned equipment.

Under Categories (5) and (6) include all claimed costs of labor, supervision, technical services, operating materials and supplies, and all other items used in (5) the initial rehabilitation and repairs of existing buildings, fixtures, installations (exclusive of mine workings), and operating equipment; and (6) the installation or construction of new buildings, fixtures, and fixed improvements (exclusive of mine workings). Do not report these costs under Categories (2), (3), (4), and (7).

Under Category (7) include all miscellaneous claimed costs such as repairs (other than initial) and maintenance of equipment, sampling and analysis, travel, communication, accounting, office expenses, and the Operator's share of payroll taxes and insurance.

Except for amounts claimed under "fixed unit costs" provisions of the contract, all costs claimed in this voucher must be supported by documentary evidence consisting of: (a) certified copies or transcripts of payrolls which list each employee, wage rate, period of employment, gross earnings, itemized deductions, and net earnings; (b) original or certified copies of invoices, statements of accounts, or purchase orders which indicate items of materials or services, quantities, unit prices, total charges, and payment terms; and (c) certified memoranda of the Operator for such items as depreciation of Operator-owned equipment, unemployment taxes, and employee's liability insurance. The certification may be stated thus, "Certified True Copy (or Transcript)", followed by the signature of the Operator or his agent. One copy of each document should accompany the original of this voucher.

The requirement for submitting documentary evidence of claimed costs may be waived by the OME regional Executive Officer if he determines that it is impracticable for an Operator to submit this material. In any case of waiver of this requirement an "on-site" audit by an OME auditor is mandatory prior to payment of the final Operator's Monthly Voucher.

MME FORM 61
SEPT. 1959

11/29/67 JRMS

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

OPERATOR'S PROGRESS REPORT For Month of October, 1967 Docket No. OME-6415 2236

Operator's Name RHECO - LENADO, Inc. Contract No. 14-23-090-

OPERATION	UNITS	FOR OPERATOR'S USE: UNITS THIS MONTH	UNITS TO DATE	COSTS TO DATE	FOR GOVERNMENT USE: APPROVED UNITS THIS MONTH	APPROVED UNITS TO DATE	APPROVED COSTS TO DATE
Drifting Labor - Ass't:	salary &	Hr. wage		3,215.00	615.00	5M0+47Hrs	3,332.50
Cross Reaming in hole	ft.	0	162	343.20	42	162	343.20
Raising In-hole survey	hrs	4	18	216.00	4	18	216.00
Shafts Reaming	ft.	0	113	429.40	0	113	429.40
Winzes Bulldozing	hrs	0	28½	402.00	0	28½	402.00
Other Underground							
Drilling, Core-Diamond	ft.	461	2,097	19,699.74	461	2,097	19,903.29
Core Boxes Rotary	no.	0	86	86.00	0	66	66.00
Drilling, Non-core-Diamond							
Rotary							
Churn							
Percussion							
Miscellaneous Cementing	Hrs.	61	286	3,575.00	55	280	3,500.00
Additives	sacks	66	175	1,255.73	66	175	1,255.73
Roads and Trails							
Stripping							
Trenching							
Test Pitting							
Other Vehicular mile.	miles	898	8,267	993.12	898	9,067	1,088.04
Initial Rehabilitation and Repairs Mobilization 50%				175.00			175.00
Rehabilitation of Mine Workings Accounting, office				213.33			213.33
New Buildings, Fixtures, etc. Payroll taxes				664.81			536.33
Operating Equipment Purchases							
Analytical Work				1,551.00			1,551.00
TOTAL TO DATE (per MME Form 60)				$32,819.33			$33,011.82

REMARKS

(Continue on back)

REMARKS

Suspended 6 Hrs Cementing time. Max allowed Stage I + II total 280 Hrs @ 12.50/Hr = 3500.00

Only the rate (12.50/Hr) is a maximum limit

(Continue on back)

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

Date Nov. 13, 1967 Operator RHECO - LENADO, Inc.

Per Henry L. Klein Title V. Pres

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

I certify that the information above is complete and accurate to the best of my knowledge and belief.

Signature J. William Hasler

Title Field Office Government Representative

Date Nov. 27 1967

(INSTRUCTIONS ON REVERSE)

REMARKS (Cont.)

REMARKS (Cont.)

INSTRUCTIONS FOR PREPARING OPERATOR'S PROGRESS REPORT, MME FORM 61

This report is the second of the three parts of the Operator's Monthly Report. Submit the original and four copies.

The cost for each operation should be the total of all claimed costs attributable to that type of work with two exceptions, namely—operating equipment purchased and analytical work which are stated separately. For example, drifting costs should be the total of all costs chargeable to drifting including supervision, technical services, timbering (if any), etc. Similarly, drilling costs should include the cost of cementing, reaming, core boxes, etc. This procedure of distribution holds whether the contract was written on an actual cost or a unit cost basis, or some combination of the two. Distribute the cost of such general items as supervision, equipment rented, etc. according to relative footages or on some other conventional basis. The item "Initial Rehabilitation and Repairs" covers all rehabilitation and/or repairs other than the rehabilitation of mine workings.

The item titled "Drilling, Non-core Percussion" includes all drilling performed with wagon, jack-hammer, stoper and mounted drills. The several items labelled "Other" are provided to take care of particular exploration operations not specified on this form.

NARRATIVE REPORT OF OPERATIONS FOR MONTH OF OCTOBER, 1967

RHECO - LENADO, Inc., Operator

Lenado Area, Pitkin County, Colorado

Docket No. OME-6415

Contract No. 14-23-090-2236

-

Drilling continued in DDH 3, with 461 feet of advance, from a depth of 120 feet on October 1 to a depth of 581 feet on November 1. Sludge return was sporadic, and the weighted core recovery was a disappointing 43 %. Due to the squeezing, caving nature of the ground it was necessary to cement often, and to telescope down to smaller sizes: NX casing to 108 feet, BX casing to 202 feet, and AX casing to 370 feet. The hole was surveyed at 435 feet, showing somewhat greater deviations in dip and bearing than in previous holes, although in the same directions: from a beginning dip of 45° it angled steeper to 55°; from a beginning strike of S. 42° E. it angled more easterly to S. 49° E.

Geologically, DDH 3 has been a surprise, and mineralogically a disappointment. This instance of cause and effect is illustrated on the attached preliminary (Advance Sheet) Plan Map of Exploration, scale 1:1200. A brief word concerning our new map: it is based on accurate, closed transit traverses tied to claim corners, previous surveys, an established Base Line, and to USLM # 5244. The drill hole collars are located to 1/10 of a foot, and surface features are plotted by stadia. The geologogy is largely projected due to the paucity of data and outcrops. An overlay of patented claims and locations is completed, and an overlay of topography isbeing processed. On this map the significant formations are colored, more intensely

so in the four drill holes, and all beds are labelled. The lemon-yellow at the begging of each hole is overburden, consisting of surficial Pleistocene alluvium, colluvium and talus. The Aspen Contact - Leadville Mine workings have been superimposed from Spurr's Atlas and tied to our surveys. North and East coordinates give directions. All drill holes, dipping from 40° - 55°, are plotted by cosine to the horizontal.

To return to DDH 3. Based on identified Leadville in DDH 4 and suspected Leadville in DDH 1 we located DDH 3 downhill from DDH 1, and westerly, as shown on the map. Calculations of regional dips, strikes and overburden depth showed on sections that DDH 3 should have drilled through the Leadville from top to bottom at a 45° dip. Instead, we drilled lower Minturn from the bottom of overburden, at 117 feet, to 160 feet; Minturn-Belden transition zone to 290 feet, and Belden for the remainder of the hole. Since, in this area, the surface distance across the Belden, from younger Minturn to the west to older Leadville to the east, is about 2,000 feet, the horizontal displacement of strata in DDH 3 must be this much, or roughly equal to the big Lenado cross-fault displacement. At normal regional dips the vertical displacement is about 1,800 feet. This astounding fact can only be explained by the existence of an heretofore unsuspected transverse fault between DDH 3 and DDH 4, down-dropped toward DDH 3. We have named this the Camp Bird Fault for the patented claim of the same name. Whether this is a normal fault, dipping south, or a thrust, dipping north, is unknown. Now that the Minturn has been (but recently) identified, the chances of reacing the Leadville are nil, other than a possible "sliver" of Leadville wedged along the Lenado Fault. Had the Minturn not been identified,

the Camp Bird Fault would still have been necessary to explain the Belden to the bottom of DDH 3, although the displacement would have been less, and reacing the Leadville would have been a possibility. We have curved the Camp Bird Fault down Woody Creek because there is no fault of this magnitude to the north or west.

There have been no assays of importance for DDH 3, although at this writing a considerable number of returns are still to come in. In the last fifty feet of so there was a marked increase in iron pyrite. The Belden beds are fresh and unaltered, suggesting that the Lenado Fault is a considerable distance away. A log of DDH 3 is attached, with lithological intervals, recovery percent, and assays.

John P. Kellogg

John P. Kellogg,
General Manager

I N T E R I M R E P O R T

At this stage, and as an adjunct to October's Narrative, it might be opportune to draft a brief resume' of operations to date, with recommendations. With four of the eight holes completed, 50% of the total estimated footage drilled, some 60% of the estimated time, and roughly 40% of the total estimated costs, we are at the project's half-way point.

The first unhappy conclusion is that we have not yet made a discovery of commercial ore - or if we have, we don't know it. The high values in the Leadville in DDH 4 were in 4 inches of core, all that was recovered over an eleven foot interval. Should the entire eleven feet, or even half of this, contain the same values as did the 4 inches, this would be a commercial, mineable width worthy of delimitation. In DDH 1, our third hole, in the vicinity of the Lenado Fault, we had a broader zone of "mill-grade" values, mostly zinc, with some exciting silver assays in sludges that were undoubtedly concentrated "heavies" in the catching pan. Encouraging - but no measurable reserves, and nothing definite enough to offset.

The most striking general geological fact developed by our drilling is the complex faulting that couldn't be anticipated through the heavy mantle of overburden. Of our first four holes, three were located in unsuspected fault blocks. Laws of probability predicate other cross-faults, sympathetic to and conjugate with the Lenado - Woody Creek Fault System. (There must be another fault, for instance, between the

Lenado Fault and the Camp Bird Fault, to account for the younger Minturn in DDH 3 and older Belden in the Aspen Contact tunnel 750 feet to the southwest of DDH 3. This has been drawn on the attached map subsequent to printing, with question marks.)

In DDH 2, our northernmost hole, the existence of the North Woody Fault was proved, although its exact location could be anywhere from DDH 2 to 250 feet north, and it could lie more east-west than is arbitrarily shown on our map. Again, this hole was aimed to cross the Leadville, and its two important bedding-plane faults, but it drilled immediately into Parting Quartzite, with a horizontal displacement of at least 250 feet. Due to unresolved complexities between DDH 2 and DDH 4 the existence of South Woody Fault is less certain, although until the "surface" Leadville is located between DDH 2 and the Camp Bird Fault the South Woody Fault is as good an explation as we have.

Moving south to DDH 4, the first hole drilled, we have the only "normal" hole out of four - "normal" in the sense that formations were about as originally projected. The locating of this hole was a compromise, conceding to the Geological Survey's plotting of the "Woody Creek Fault", which would have been intercepted had it been as located, at the same time the hole was aimed to cross the Leadville if the fault were not at this point. The latter proved to be the case, and this explains the excessive width of Belden that was cored. There was no water return in DDH 4, and poor recovery - unfortunate in the only hole to have crossed the Leadville.

Continuing south, our recently completed hole, DDH 3, has been covered in October's Narrative, with its remarkable disclosure of the big Camp Bird Fault. Since November 1 this hole continued to 631 feet in apparently all Belden. On November 6 we stopped this hole for several reasons: the primary reason is simply mechanical - economic; the drilling contractor is at an impasse', with no advance for seven shifts, re-cementing and re-drilling more than the last 100 feet for four times, and the rods still bind and won't rotate. Another reason is geological: by straight-line projection DDH 3 would have to go nearly 200 feet more to cut the south-dipping Lenado Fault; its easterly deviation, and steepening dip could be greater, not lesser, than we have projected. Furthermore, our last cores are totally unaltered, with no suggestion of a nearby fault influence.

We are now commencing Phase II drilling, holes 5, 6, 7 and 8, west of the former productive mines, in an area of particularly high geochemical anomalies, to seek inferred ore bodies in limestone - dolomite host rocks along the Lenado transverse fault. We are moving to DDH 7, located on the attached map at 3725.33' North, 3712.48' East, with expectations of drilling lower Belden, of crossing the Lenado Fault, and exploring the Leadville south of the fault. Because the fault dips steeper, about 83°, than the Leadville strata (50° ?), our customary 45° - 50° is too steep to catch more than a lower "point" of Leadville, so we are angling this hole at a - 30°. Its bearing will be S. 34° E.

In DDH 1, our southernmost hole, another fault was proved. Lying south of and more or less parallel to the Lenado Fault,

its existence is argued by (1) the last 364 feet of DDH 1 being in Sawatch Quartzite instead of granite, which it would have been in had there been no fault, (2) our surface mapping of it, although we had assumed mainly vertical displacement rather than the considerable horizontal movement proved by DDH 1, and (3) the mapping by Spurr et al of this same fault in the Aspen Contact Mine, south of and parallel to the Lenado Fault. We have named this the "Cambrian Fault".

General Comments and Recommendations

After five months of pulling "blanks" we risk appearing specious by asserting, without hesitation and with honest conviction, that the probablity of discovering commercial ore reserves at Lenado is now greater than it was when the project began. Our contract states its objective: "The purpose of the project is to explore by drilling, from sites to be prepared on the land surface, for silver-bearing ore bodies below an elongate geochemical anomaly which is approximately coextensive with the outcrop areas of the Leadville limestone and of the transverse Woody Creek and Lenado faults between offset segments of the limestone.

"Ore bodies are inferred in and along the transverse faults and possibly along bedding-plane faults where the faults intersect or traverse limestone strata of the Manitou, Dyer, Leadville, and Belden formations of Paleozoic age."

North Woody, South Woody, Camp Bird, Lenado, and Cambrian are "transverse faults" - "dip faults which cross the general

structure." Until these faults are explored, where they "intersect or traverse limestone strata", Phase I drilling will have disproved nothing, and will have barely set the stage for serious, controlled, directional exploratory drilling.

Throughout the Aspen District the history of discovery and rich production closely paralleled the operators' crosscutting along east-west cross faults (transverse faults) that displaced the Leadville and Dyer, in places the Belden and Manitou. This was true of Tourtelotte Park, the Durant, Mollie Gibson, Smuggler, and Cowenhoven, to name a few. From Tourtelotte north toward Aspen there are five cross faults over a north-south distance of 800 feet, then four cross faults over 650 feet, then another productive locality of five cross faults over a distance of only 500 feet. At Lenado we have proved four, possibly five of these transverse faults over a distance of 1,000 feet. There are probably more, not yet located, in that distance. In Phase I only one hole, DDH 1, crossed a fault, the Lenado Fault (and, we might add, with metal values that verged on the exciting). Four faults, North Woody, South Woody, Camp Bird, and Cambrian have not been crossed, cored or seen. Phase I drilling has proved that the potential for ore deposition has compounded, by giving us many more reservoirs for ore bodies than was foreseen six months ago.

Recently we located a report by Otto Sussman, dated Dec. 12, 1905, titled "Notes on the Aspen-Contact Mine."

Mr. Sussman spends a lot of time quoting, and concurring, with Spurr, but goes on: " - but I am of the opinion that a large or lasting production cannot be expected from the ore which may be encountered within this Lenado Fault. Such a thing is possible if the original ore deposit can be located and mined." And " - as ore shipments which came out of the Lenado Fault were considerable, it is quite probable that if the original deposit could be located this may be of some extent." Finally, and more pertinent: " - as the displacement caused by the Lenado Fault was not only vertical but also a lateral one, so that it may be that the original deposit might not be encountered just exactly vertically below the Aspen Contact Mine, but possibly east or west of it." Mr. Sussman recommends diamond core drilling that corresponds surprisingly close to the program as set forth in our current project. Thus, without the knowledge we now have from Phase I drilling, were we (or Sussman, for American Metals) to be commencing this exploration now, we would do exactly as we have done.

Recommendations for future Lenado Exploration

This subject unavoidably divides into two routes: (1) the original contract program continuance as conceived and outlined, and (2) a completely independent appraisal as might be made by a hired consultant who has all available data and an unrestricted choice of exploratory techniques. Regarding the contract program we believe it should be followed, with this important difference: that a certain amount of footage, say around 800 feet, be "borrowed" from Phase II, and allocated back to Phase I, intesting the

transverse faults and the locating of favorable strata such as the Leadville and the attending favorable bedding-plane faults, such as the Silver Fault and Contact Fault. This would be shallow drilling, less than 200 feet. This would be cheaper drilling per foot, and with the partial control we can now give them, these holes, more in number, would have that much more numerical chance for discovery.

With encouragement to this end, we could present a basic program for approval, together with a request for contract amendment should this be necessary.

Regarding a completely unrestricted approach to future exploration, and justified now by a considerably different geological picture than we had originally assumed, we would like to present a plan that appeals for its simplicity, economic saving, time saving, and increased chances for discovery. This is to use a rotary rig to drill a large number of shallow, vertical holes. These holes, none over 100' in depth, would be scattered on roughly 250' centers but located over the most critical areas, from the Lenado Fault to about 300' north of DDH 2. The coverage would be about 500,000 square feet with, say, fifteen holes,at a cost of less than $10,000. A rotary will drill dry or wet, core or non-core. When bedrock proves, by cuttings, to be a limestone or dolomite, we could change to core. Together with the completed four diamond core holes the information gained by this rotary program should largely resolve the crazy-quilt pattern of blocks, segments, transverse faults, and displaced beds of favorable host limestones and dolomites. Fault

dips would likely be determined on occasions. Most important, if there is commercial ore in large amounts in the ground covered, this drilling should find it, or at least "point" to it with sufficient accuracy that a small diamond core rig could follow up with angle holes. Based on our geological analysis we feel that this plan be given serious consideration. If our contention that the ore probablities have increased in this area be valid, but that with this increase, because of fault complexities, locating a target becomes more and more difficult and surface drilling then assumes a "random" nature, this problem can best be met with a large number of short, vertical holes, quickly drilled, for less money. Should this method find favorable acceptance, we would like to suggest an advance, or possibly concurrent fast geophysical survey. Conditions at Lenado should be ideal for spontaneous polarization of shallow sulfide orebodies undergoing oxidation, and might be located quickly with a Self-Potential, Resistivity unit. We would prefer an I.P. unit with its increased accuracy and versatility which would be more costly and require more time than the Self-Potential method.

A close-controlled, close-spaced geochemical grid over the area should also be a definite assist in choosing locations for the short rotary holes.

The estimated $10,000 rotary drilling cost would be nearly halved by drilling with a cat or truck-mounted percussion (wagon) drill, with cyclone sampler. Objections here are (1) no core, and (2) wet ground, which makes such sampling difficult, if not impossible.

In conclusion, we should like to invite comments and criticism. There are certain to be deviations and probably outright contradictions to our geological picture; we welcome suggestions. We have purposely avoided weather considerations, which are in the special province of nature, and of greatest concern to Boyles Bros, who have shown no disinclination to continue their drilling all winter, if necessary. Extreme freezing will naturally slow operations to some extent; unless snow becomes excessive it should be no great problem, particularly with a cat available at Lenado.

A final word of praise for Boyles Bros. It would be naive to expect absolute perfection, 100% recovery, and round-the-clock dedication from any drill contractor - but Boyles rates high in our experience. This is rough, tough diamond core drilling ground, and the contractor deserves credit for their determined effort to see this through, despite what must be a considerable financial loss.

John P. Kellogg

John P. Kellogg

THE COMPUTATION OF MISCELLANEOUS COSTS FOR OCTOBER, 1967

1. Payroll Taxes: FICA @ 4.4% plus State Compensation Insurance @ 3.84% = 8.24% x $910.00 supervision & Technical plus $615.00 Labor = $125.66

2. Vehicular mileage: Jeep mileage 11/1 38048
10/1 37222
826
Two Bronco round trips @ 36 miles = 72
898 @ 12¢=107.76

3. Analytical Work:

130 Au & Ag., @ $3.00	$ 390.00	
31 Ag. only @ 1.50	46.50	
129 Pb. & Zn. @ 4.00	516.00	
29 Zn. only @ 2.00	58.00	
		$ 1,010.50

4. Actual costs cement additives for 66 sacks was $649.54, or $9.84/sack. The 66 sacks were calculated at contract price of $7.50/sack = 495.00

5. Supervision & Technical was included, as usual, in Diamond Core Drilling on MME Form 61

6. Core Boxes: none claimed until tally taken next period for a two months' total.

LENADO CORE HOLE ASSAYS

To accompany October, 1967 Report & Voucher

I. DDH 1 - Core (No Cuttings - Sludges returned)

Sample Number	Interval	Oz. Ag.	% Pb.	% Zn.	Remarks
837	122 - 127	0.04	0	16.0	
838	127 - 137	0	0	11.2	
857	137 - 147	0.02	0	0	
882	137 - 147	0	0.6	11.5	(Recheck on # 857)Tr.Au.
839	147 - 152	0.12	0	7.8	
840	152 - 157	0.04	0	1.1	
841	157 - 162	0.02	0.15	6.7	
842	162 - 165	2.86	0.7	3.7	
843	165 - 167	3.66	1.1	13.9	
844	167 - 177	0.15	0.10	1.0	
845	177 - 178	0.22	0	0.5	
846	178 - 179	0.08	0	1.8	
847	179 - 180	7.30	1.10	1.2	
848	180 - 180.5	0.16	0.1	1.8	
849	180.5-181	0.66	0.6	1.7	
850	181 - 182	0.10	0	1.2	
851	182 - 185	0	0	0.5	
852	185 - 186	0.10	0	2.0	
853	186 - 192	0.46	0.10	0.6	
854	192 - 197	0.16	0.10	1.1	
	(197 - 202	No returns)			
855	202 - 207	0.10	0.10	0.5	
856	207 - 212	0.06	0.15	0.6	
	(212 - 222	No returns; bottom of hole)			

II. DDH - Offset: Core

858	121 - 122	0.02	0	6.9	Tr. Au.
883	147 - 149	0	0.4	1.2	"
884	149 - 152	0	0	1.9	"
885	152 - 157	0	0	0.5	"
886	157 - 162	0	0	0.3	"
887	162 - 165	0.8	0.9	3.65	"
888	165 - 167	0.6	1.2	3.45	"
889	167 - 168	0.3	0.4	2.75	"
890	168 - 169	0.1	0.6	1.6	"
891	169 - 170	0	Tr.	1.2	"
892	170 - 172	0.1	Tr.	1.0	"
893	172 - 174	0	0.1	1.0	"
894	174 - 177	0.2	Tr.	1.0	0.0 Au.
895	177 - 178	0.2	1.15	1.3	0.0 Au.
896	178 - 180	0	0.1	1.3	Tr. Au.
897	180 - 181	0	0.35	1.6	"

Lenado Core Hole Assays DDH - 1, Offset; Core, Continued

Sample Number	Interval	Oz Au.	Oz. Ag.	% Pb.	% Zn	
898	181 - 182	Tr.	0.4	0.5	1.6	
899	182 - 183	Tr.	0	0.2	1.0	
900	183 - 185	Tr.	0.7	0.2	1.7	
901	185 - 186	Tr.	0.3	0.2	0.8	
902	186 - 187	Tr.	0.4	0.9	1.2	
903	187 - 190	Tr.	0.3	3.25	1.2	
904	190 - 193	Tr.	0.2	0.35	6.1	
905	193 - 195	Tr.	0.1	0.25	1.2	
906	195 - 198.5	Tr.	0	Tr.	0.9	
907	198.5-206	Tr.	0.4	1.1	5.9	
908	205 - 207	Tr.	0.1	0.4	4.85	
909	207 - 209.5	Tr.	0.1	0.6	6.2	
910	209.5-211.5	0	0	0.25	1.1	
911	211.5-212	Tr.	0.1	Tr.	0.7	
912	212 - 214	Tr.	0	0.4	0.6	
913	214 - 216	Tr.	0.1	0.2	1.7	
914	216 - 217.5	0	0	0.40	2.5	
915	217.5-219	0	0.2	0.10	1.4	
916	219 - 220.5	Tr.	0	Tr.	1.0	
917	220.5-222	0	0.1	0.10	1.3	
918	222 - 224	0	0	0.10	0.7	
919	224 - 226	0	0	0	0.3	
920	226 - 232	0	0	Tr.	0.2	
921	232 - 237.5	Tr.	0	0	0.1	
922	237.5-239	0	0	Tr.	2.0	
923	239 - 240	0	0	Tr.	1.5	
924	240 - 243	0	0	Tr.	1.1	
925	243 - 245	0	0	Tr.	2.3	
926	245 - 247	0	0	0.95	6.2	
927	247 - 249.5	0	0	0	18.95	
928	249.5-252.5	0	0	0	2.55	
929	252.5-255	0	0.1	0	0.3	
930	255 - 259	Tr.	0	Tr.	0.4	
931	259 - 261	Tr.	0.2	Tr.	0.4	
932	261 - 263	Tr.	0	Tr.	0.2	
933	263 - 265	Tr.	0	Tr.	0.2	
934	265 - 267	0	0	Tr.	0.3	
935	267 - 272	0	0	Tr.	0.3	
936	272 - 274.5	0	0	0	0.2	
937	274.5-277	0	0	Tr.	0.1	
938	277 - 280	0	0.1	Tr.	0.2	
939	280 - 282	0	0	0	0.2	
940	287 - 292	Tr.	0.3	0.4	0.2	(Begin. Sawatch)
941	292 - 297	Tr.	0.1	0.55	0.7	
942	297 - 299	Tr.	0	0.2	0.2	
943	299 - 301	Tr.	0	Tr.	0.4	

Lenado Core Hole Assays DDH - 1, Offset; Core; Continued

Sample Number	Interval	Oz. Au.	Oz. Ag.	% Pb.	% Zn	
944	301 - 302	Tr.	0.3	0.55	0.3	
945	302 - 305	0	0	0.3	0.3	
946	305 - 307	Tr.	0.2	0	0.1	
951	317 - 319.5	Tr.	0.34		Tr.	
952	319.5-322	Tr.	0.52		Tr.	
953	322 - 327	Tr.	0.54		Tr.	
954	327 - 330	Tr.	0.56		0.08	
955	330 - 333	Tr.	0.66		0.1	
956	333 - 341	Tr.	0.24		0.08	
957	341 - 352	Tr.	0.60		0.12	
958	352 - 358	Tr.	0.96		Tr.	
959	358 - 365	Tr.	0.40		Tr.	
960	365 - 369	Tr.	0.48		0.07	
961	369 - 375	Tr.	0.40		Tr.	
962	375 - 378	.005	0.56		Tr.	
963	378 - 383	Tr.	0.50		0.08	
964	383 - 392	Tr.	1.00		Tr.	
965	392 - 397	Tr.	0.64		Tr.	
966	397 - 403	Tr.	0.90		Tr.	
967	403 - 409	.005	0.80		Tr.	
968	409 - 412	0.01	0.60		Tr.	
969	412 - 426	Tr.	0.50		Tr.	
970	426 - 428	.005	0.46		0.08	
971	428 - 433	0	0.10	0.20	Tr.	
972	433 - 436.5	0	0.90	0.10	0	
973	436.5-445	Tr.	0.70	1.64	Tr.	
974	445 - 450	0	0.30	0.35	0.4	NilCd.
975	450 - 452	Tr.	0.30	0.16	Tr.	Nil Cd.
976	452 - 455	Tr.	0.46	Tr.	0.07	
977	455 - 458	0	0.2	0	0.2	
978	458 - 461	0	0.1	0.30	0.1	
979	461 - 464	0	0	0.50	0.2	
980	464 - 467	0	0	0.70	0.3	Nil Cd.
981	467 - 469	Tr.	0.42	0.30	0.07	.003% Cd.
982	469 - 471	0	0.2	0.30	0.3	
983	471 - 475	Tr.	0.22	Tr.	0.08	
984	475 - 478	0	0	0	0.1	
985	478 - 481	Tr.	0.1			
986	481 - 484	0	0	0.70		
987	484 - 486	Tr.	0.20	Tr.	Tr.	
988	499 - 508	Tr.	0.18	Tr.	Tr.	
989	508 - 509	Tr.	0			
990	509 - 512	Tr.	0.46	0.36	0.06	
991	512 - 514	Tr.	0.32	Tr.	0.06	

Lenado Core Hole Assays DDH - 1, Offset; Continued

Sludges (cuttings & slimes)

Sample Number	Interval	Oz. Au.	Oz. Ag.	% Pb.	% Zn.	
860	135 - 137	Tr.	13.8	2.1	3.25	
861	137 - 139	Tr.	10.7	1.9	2.00	
862	139 - 141	0	2.7	0.5	0.40	
863	141 - 142	Tr.	8.0	1.3	1.20	
864	142 - 144	0	0.2	0.15	1.70	
865	144 - 146	Tr.	17.1	2.80	1.60	
866	146 - 148	Tr.	2.0	0.55	2.85	
867	148 - 150	0	0	0.10	1.80	
868	150 - 152	0	0.1	0.20	1.50	
869	152 - 154	Tr.	15.0	2.75	2.75	
870	154 - 156	0	0.5	0.40	1.50	
871	156 - 158	Tr.	9.7	1.60	1.20	
872	158 - 160	Tr.	3.8	0.80	1.10	
873	160 - 162	Tr.	5.2	0.96	1.70	
874	162 - 167	Tr.	13.9	4.10	2.25	
875	167 - 172	Tr.	57.9	9.40	4.65	
876	192 - 200	Tr.	6.1	2.80	2.85	
878	200 - 210	Tr.	47.4	7.20	5.10	
880	210 - 217	Tr.	0.4	0.60	2.00	
950	217 - 222	Tr.	13.9	2.20	3.35	
947	117 - 122	0	0.1	0	0.10	sample lost 1 wk
948	122 - 127	0	21.8	3.20	1.45	" " "
949	127 - 132	Tr.	34.3	4.7	1.85	" " "
992	232 - 237		0.08		0.55	
993	237 - 242		0.08		0.67	
994	242 - 247		0.10		0.60	
995	450 - 458		2.90		0.50	
996	458 - 468		0.20		0.28	
997	468 - 478		0.16		0.27	
998	478 - 488		0.22		0.20	
999	494 - 508		0.06		0.18	
1000	539 - 549		0.12		0.27	
1001	622 - 631		0.14		Tr.	
Total Number of determinations for DDH - 1 and 1-Offset		130	161	129	158	

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
FEDERAL CENTER, DENVER, COLORADO 80225

Office of Minerals Exploration
Building 53 -- Room 203

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M. E.
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NOV 9 1967

INITIALS	CODE
	130
	120
Fej	140
RMD	120

November 7, 1967

Memorandum

To: Chief, Office of Minerals Exploration

From: Field Officer, Region III

Subject: OME-6415 (Silver)
Richmond Hill Exploration Company, Inc.
RHECO - Lenado Area
Pitkin County, Colorado
Contract 2236

Transmitted herewith are the original and two copies of the September, 1967 vouchers on the above-stated contract. The vouchers were held up in the OME Region III office pending conversations with the general manager of the company.

I certify that the vouchers are correct and just; and recommend that payment be made.

J. William Hasler

J. William Hasler,
Field Officer, Region III
Office of Minerals Exploration

Enclosures

MMS FORM 80
SEPT. 1959

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RECEIVED
OCT 30 1967
INITIALS | CODE

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

Docket No. OMS-0415
Contract No. 14-23-090-2236
Contract Amount $ 70,800.00
Gov't. Participation % 75 $ 53,100.00
Mineral(s) Silver

OPERATOR'S MONTHLY VOUCHER For Month of September, 1967

Operator's Name Disco - Dynamic, Inc.
Address P. O. Box 939, Aspen, Colorado 81611

COST CATEGORIES	FOR OPERATOR'S USE: MONTHLY TOTAL	PREVIOUSLY REPORTED	TOTALS TO DATE	FOR GOVERNMENT APPROVAL ONLY: MONTHLY TOTAL	PREVIOUSLY REPORTED	TOTALS TO DATE
Fixed Unit Costs and						
(1) Independent Contracts:						
Bulldozing	66.00	336.00	402.00			
Drifting Reaming	0	429.40	429.40			
Crosscutting						
Drilling Dia. Core	4,393.45	8,239.86	11,633.31			
cementing time	712.50	2,100.00	2,812.50			
mobilization 50%	0	175.00	175.00			
(2) Personal Services:						
Supervision & Technical	910.00	3,033.33	3,943.33			
Outside Consultants						
Labor	650.00	1,950.00	2,600.00			
(3) Operating Mat'l. & Supplies:						
Timber						
Explosives						
Pipe						
Rail						
cement additives	352.50	408.23	760.73			
core boxes	32.00	54.00	86.00			
in-hole surveying	72.00	96.00	168.00			
casing in hole	217.20	126.00	343.20			
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehab. & Repairs:						
Buildings, Fixtures, etc.						
Operating Equipment						
(6) New Buildings, Fixtures, etc.						
(7) Miscellaneous:						
Repairs to Equipment	0	940.50	940.50			
Analytical Work	123.54	410.61	534.15			
Payroll Taxes						
Employee's Liability Ins.						
vehicle mileage	160.46	734.89	895.36			
accounting, office	40.00	133.33	173.33			
		$10,757.14				
TOTALS	$6,284.67		$25,481.81			

I certify that the above bill is correct and just and that payment therefor has not been received.
Date Oct. 24, '67 *Payee PtEco - Lemado Inc
Per Henry L. Sherr Title V. Pres.

* 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.

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

(INSTRUCTIONS ON REVERSE)

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

$ 5,042.69 14X0804

Signature [illegible] (Authorized Certifying Officer)
Date NOV 28 1967 Vou. No. 83788

(SEE OTHER SIDE)

Certification by Government Representative:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating an exploration project in accordance with the terms of Contract No. 2226

Signature J. William Taylor Title Field Officer Date 11/7/67

Approved by OME Executive Officer or Alternate:

Signature J. William Taylor Title Field Officer Date 11/7/67

OPERATOR'S MONTHLY REPORT

The Operator, under an Office of Minerals Exploration contract, is required to report monthly to the Government. The report consists of three parts.

FIRST, the Operator's Monthly Voucher on MME Form 60 listing the project costs incurred and claimed by the Operator is the voucher basis for payment of the Government's share of the cost.

SECOND, the Operator's Progress Report on MME Form 61 is a statistical report of the units and cost of of work performed under the contract.

THIRD, the Operator's Narrative Report is a concise description of the work performed, results accomplished, and any unusual situations encountered, illustrated and supported by engineering-geological maps or sketches, drill hole logs, assay reports, etc., as pertinent.

The Operator submits the original and four copies of each of the three sections of this report to the OME regional Executive Officer at the end of each month during the life of the contract.

PREPARATION OF OPERATOR'S MONTHLY VOUCHER, MME FORM 60

After all applicable spaces are filled in, the Operator or his agent must sign the certification in the lower left corner. Categories (2) through (7) apply to "Actual Cost" contracts only.

Under "Fixed Unit Costs" and Category (1) report, (a) the total fixed unit costs of work performed under contract provisions for contribution by the Government on a basis of "fixed unit costs"; and (b) the claimed costs of work performed on a unit-price basis by independent contractors.

Under Category (2) include the claimed costs of all payrolled and invoiced supervisory, technical, and labor personnel, except the costs for services applicable to Categories (5) and (6).

Under Category (3) include the claimed costs of all project materials and supplies other than those used for work under Categories (5) and (6).

Under Category (4) report claimed rentals on equipment belonging to a third party, claimed payments or obligations for payments on the Operator's purchase of equipment, and claimed depreciation for the use of Operator-owned equipment.

Under Categories (5) and (6) include all claimed costs of labor, supervision, technical services, operating materials and supplies, and all other items used in (5) the initial rehabilitation and repairs of existing buildings, fixtures, installations (exclusive of mine workings), and operating equipment; and (6) the installation or construction of new buildings, fixtures, and fixed improvements (exclusive of mine workings). Do not report these costs under Categories (2), (3), (4), and (7).

Under Category (7) include all miscellaneous claimed costs such as repairs (other than initial) and maintenance of equipment, sampling and analysis, travel, communication, accounting, office expenses, and the Operator's share of payroll taxes and insurance.

Except for amounts claimed under "fixed unit costs" provisions of the contract, all costs claimed in this voucher must be supported by documentary evidence consisting of: (a) certified copies or transcripts of payrolls which list each employee, wage rate, period of employment, gross earnings, itemized deductions, and net earnings; (b) original or certified copies of invoices, statements of accounts, or purchase orders which indicate items of materials or services, quantities, unit prices, total charges, and payment terms; and (c) certified memoranda of the Operator for such items as depreciation of Operator-owned equipment, unemployment taxes, and employee's liability insurance. The certification may be stated thus, "Certified True Copy (or Transcript)", followed by the signature of the Operator or his agent. One copy of each document should accompany the original of this voucher.

The requirement for submitting documentary evidence of claimed costs may be waived by the OME regional Executive Officer if he determines that it is impracticable for an Operator to submit this material. In any case of waiver of this requirement an "on-site" audit by an OME auditor is mandatory prior to payment of the final Operator's Monthly Voucher.

11/13/67/RMd

MME FORM 61
SEPT. 1959

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

OPERATOR'S PROGRESS REPORT For Month of September, 1967 Docket No. [illegible]-6015

Operator's Name RICCO - LENADO, Inc. Contract No. 14-23-090- 2256

OPERATION	UNITS	FOR OPERATOR'S USE: UNITS THIS MONTH	UNITS TO DATE	COSTS TO DATE	FOR GOVERNMENT USE: APPROVED UNITS THIS MONTH	APPROVED UNITS TO DATE	APPROVED COSTS TO DATE
Drifting	Labor - Acc't - monthly salary			2,600.00	1	4 Mo. x 47 Hrs	2,717.50
Crosscutting	Cutting in hole ft.	120	163	343.20	120	120	217.20
Raising	Drilling Day HRS.	54	147	188.00	6	14	168.00
Shafts					0	113	429.40
Winzes	ft.	468	1,636	15,966.64			
Other Underground	Core Boxes no.	32	54	66.00			
Drilling, Core-Diamond					468	1,636	14,680.49
Rotary					32	54	66.00
Drilling, Non-core-Diamond							
Percussion	Rotary cementing hrs.	57	225	2,812.50	57	225	2,812.50
	Chum additives sacks	47	109	760.73	47	109	760.73
Miscellaneous							
Roads and Trails							
Stripping	Vehicular mileage miles	1,245	7,369	985.36	1245	8169	980.28
Trenching	Mobilization 50%			175.00			175.00
Test Pitting	accounting, office			173.33			173.33
Other Surface Work	Payroll taxes			559.15			410.67
Initial Rehabilitation and Repairs							
Rehabilitation of Mine Workings							
New Buildings, Fixtures, etc.	197 determinations			540.50			542.50
Operating Equipment Purchases				125,481.01			
Analytical Work							
TOTAL TO DATE (per MME Form 60)							24,535.30

REMARKS

(Continue on back)

REMARKS

I approved N.C. over-burden footage as drilled by the open hole drillers.

Disallow $1.08 Mileage error - RMd

(Continue on back)

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.

RICCO - LENADO, INC.

Date _____ Operator _____

Per Henry S. Klein Title V. Pres.

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

I certify that the information above is complete and accurate to the best of my knowledge and belief.

Signature J. William Hasler

Title Field Officer
Government Representative

Date Nov. 7, 1967

(INSTRUCTIONS ON REVERSE)

REMARKS (Cont.)

REMARKS (Cont.)

INSTRUCTIONS FOR PREPARING OPERATOR'S PROGRESS REPORT, MME FORM 61

This report is the second of the three parts of the Operator's Monthly Report. Submit the original and four copies.

The cost for each operation should be the total of all claimed costs attributable to that type of work with two exceptions, namely—operating equipment purchased and analytical work which are stated separately. For example, drifting costs should be the total of all costs chargeable to drifting including supervision, technical services, timbering (if any), etc. Similarly, drilling costs should include the cost of cementing, reaming, core boxes, etc. This procedure of distribution holds whether the contract was written on an actual cost or a unit cost basis, or some combination of the two. Distribute the cost of such general items as supervision, equipment rented, etc. according to relative footages or on some other conventional basis. The item "Initial Rehabilitation and Repairs" covers all rehabilitation and/or repairs other than the rehabilitation of mine workings.

The item titled "Drilling, Non-core Percussion" includes all drilling performed with wagon, jack-hammer, stoper and mounted drills. The several items labelled "Other" are provided to take care of particular exploration operations not specified on this form.

UNITED STATES
DEPARTMENT OF THE INTERIOR
U. S. Geological Survey
Branch of Budget and Finance
Washington, D. C. 20242

ADMINISTRATIVE SUSPENSION STATEMENT

Name and Address of Payee: Rheco - Lenado, Inc.
P.O. Box 939
Aspen, Colorado 81611

Amount Claimed:	Differences (Explained Below)	Amount Approved
$6,724.67	$1.08	$6,723.59 $5,042.69 Govt. Share
Bu. Voucher No.	Payee's Invoice No.	Period
	Docket # 6415 Contract # 2236	September 1967

EXPLANATION

Error in computation of vehicle mileage $1.08

Any reclaim for items deducted must be supported by the original of this statement and submitted to the office shown above.

JDH
Branch of Budget and Finance

NARRATIVE REPORT OF OPERATIONS FOR MONTH OF SEPTEMBER, 1967

RIECO - LENADO, Inc., Operator

Lenado Area, Pitkin County, Colorado

Docket No. OME-6615

Contract No. 14-23-090-2236

Drilling continued in DDH 1-Offset, in the Sawatch Quartzite, from 303 feet depth on September 1 to a final bottom of 651 feet. We had hoped to locate the "South Lenado Fault", and the Precambrian granite, since that was an important ore contact zone in the Aspen Contact Mine, but decided at 651 feet that we were losing precious footage for this questionable target. As the attached log will show, the assays in the quartzite were disappointing, even though in general its appearance was that of a highly leached, altered, mineralized gossan. From about 312 on there was some silver in all of it, averaging 1/3 to 1/2 ounce. What we mistook for tiny "black jack" sphalerite crystals was probably siderite, and what we hoped might be cadmium was probably jarosite. The darker material was probably some manganese - iron combination. It is apparent that the only interest in this hole, aside from the geology, is the upper leached dolomite (Leadville ?) where we had some interesting mineral shows.

On September 20 a new access hole was dozed, and the drilling rig was moved to DDH 3. A total of 120 feet was drilled in this new hole by month's end - charged to us as overburden by the driller, but we consider bedrock to have started at 117 feet, which is how it is calculated on the attached MMC forms. DDH 3 is about 180 feet N. 13° W. of DDH-1 Offset, and about 70 feet lower down hill. Its initial bearing is S. 42° E, dipping 45°.

A new Plan Map of the project area, scale 1" = 100', was started, based on several completed, and closed transit traverses, tied to claim corners and a mineral monument.

John P. Kellogg

John P. Kellogg
General Manager

THE COMPUTATION OF MISCELLANEOUS COSTS FOR SEPTEMBER, 1967

1.	Payroll taxes: FICA @ 4.4% plus State Compensation Insurance @ 3.84% = 8.24% x $910.00 Supervision & Technical plus $650 Labor =		$128.54
2.	Vehicular mileage: Jeep mileage 10/1	37222	
	9/1	35977	
		1254 @ 12¢	150.48
		45	149.40 RMA
3.	120 feet of AX casing <u>lost</u> in hole - not left in at our request.		
4.	Actual costs cement additives for 47 sacks was $401.60, or $8.545/sack. The 47 sacks were calculated at contract price of $7.50/sack =		352.50
5.	The "35 core boxes for August" on driller's invoice already claimed as "34", since one was destroyed. The claim for September is 32 boxes.		
6.	The considerable analytical work done in September will be compiled on future Voucher.		

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
FEDERAL CENTER, DENVER, COLORADO 80225
Office of Minerals Exploration

September 28, 1967

OFFICIAL COPY
O. M. E.
RECEIVED
SEP 29 1967

INITIALS	CODE
	130
	120 M
	140
RMS	120 (Smith)

Memorandum

To: Chief, Office of Minerals Exploration

From: Field Officer, Region III

Subject: OME-6415 (Silver)
RHECO-LENADO, Incorporated
Pitkin County, Colorado
Contract 2236

Transmitted herewith are the original and two copies of the monthly report for August, 1967 on the above-stated subject.

I certify that this account is correct and proper for payment and recommend that payment be made.

J. William Hasler

J. William Hasler,
Field Officer, Region III
Office of Minerals Exploration

10/3/67 RA

MME FORM 60
SEPT. 1959

OFFICIAL COPY O. M. E. RECEIVED OCT 11 1967 INITIALS

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

Docket No. GMB-0415
Contract No. 2236
14-23-090-~~78,000.00~~
Contract Amount $
Gov't. Participation %75 59,100.00
Mineral(s) Silver

OPERATOR'S MONTHLY VOUCHER For Month of August, 1967

Operator's Name Rhoco-Lemado, Inc.
Address P. O. Box 939, Deson, Colorado 81611

COST CATEGORIES	FOR OPERATOR'S USE: MONTHLY TOTAL	PREVIOUSLY REPORTED	TOTALS TO DATE	FOR GOVERNMENT APPROVAL ONLY: MONTHLY TOTAL	PREVIOUSLY REPORTED	TOTALS TO DATE
Fixed Unit Costs and						
(1) Independent Contracts:						
Bulldozing	224.00	112.00	336.00			
Drifting						
Crosscutting Reaming	228.00	201.40	429.40			
Drilling Dia. Core	3,065.85	5,164.01	8,229.86			
Cementing time	175.00	1,925.00	2,100.00			
Mobilization 50%	0	175.00	175.00			
(2) Personal Services:						
Supervision & Technical	910.00	2,123.33	3,033.33			
Outside Consultants						
Labor	650.00	1,300.00	1,950.00			
(3) Operating Mat'l. & Supplies:						
Timber						
Explosives						
Pipe						
Rail						
cement additives	210.00	198.23	408.23			
core boxes	34.00	20.00	54.00			
in-hole surveying	48.00	48.00	96.00			
coring in hole	0	126.00	126.00			
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehab. & Repairs:						
Buildings, Fixtures, etc.						
Operating Equipment						
(6) New Buildings, Fixtures, etc.						
(7) Miscellaneous:						
Repairs to Equipment	0	936.50	936.50			
Analytical Work	128.54	282.07	410.61			
Payroll Taxes						
Employee's Liability Ins.						
vehicle mileage	144.72	590.16	734.88			
accounting, office	40.00	93.33	133.33			
TOTALS	5,858.11	13,295.03	19,153.14			

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

Date Sept. 22, '67 * Payee Rhoco-Lemado, Inc.

Per Henry L. Klein Title V. Pres.

* 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.

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

(INSTRUCTIONS ON REVERSE)

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

$ 4393.58 14X0804

Signature jdm
(Authorized Certifying Officer)

Date OCT 6 1967 Vou. No. 82711

Certification by Government Representative:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating an exploration project in accordance with the terms of Contract No. 2236

Signature J. William Hasler Title Field Officer Date 9/27/67

Approved by OME Executive Officer or Alternate:

Signature J. William Hasler Title Field Officer Date 9/27/67

OPERATOR'S MONTHLY REPORT

The Operator, under an Office of Minerals Exploration contract, is required to report monthly to the Government. The report consists of three parts.

FIRST, the Operator's Monthly Voucher on MME Form 60 listing the project costs incurred and claimed by the Operator is the voucher basis for payment of the Government's share of the cost.

SECOND, the Operator's Progress Report on MME Form 61 is a statistical report of the units and cost of of work performed under the contract.

THIRD, the Operator's Narrative Report is a concise description of the work performed, results accomplished, and any unusual situations encountered, illustrated and supported by engineering-geological maps or sketches, drill hole logs, assay reports, etc., as pertinent.

The Operator submits the original and four copies of each of the three sections of this report to the OME regional Executive Officer at the end of each month during the life of the contract.

PREPARATION OF OPERATOR'S MONTHLY VOUCHER, MME FORM 60

After all applicable spaces are filled in, the Operator or his agent must sign the certification in the lower left corner. Categories (2) through (7) apply to "Actual Cost" contracts only.

Under "Fixed Unit Costs" and Category (1) report, (a) the total fixed unit costs of work performed under contract provisions for contribution by the Government on a basis of "fixed unit costs"; and (b) the claimed costs of work performed on a unit-price basis by independent contractors.

Under Category (2) include the claimed costs of all payrolled and invoiced supervisory, technical, and labor personnel, except the costs for services applicable to Categories (5) and (6).

Under Category (3) include the claimed costs of all project materials and supplies other than those used for work under Categories (5) and (6).

Under Category (4) report claimed rentals on equipment belonging to a third party, claimed payments or obligations for payments on the Operator's purchase of equipment, and claimed depreciation for the use of Operator-owned equipment.

Under Categories (5) and (6) include all claimed costs of labor, supervision, technical services, operating materials and supplies, and all other items used in (5) the initial rehabilitation and repairs of existing buildings, fixtures, installations (exclusive of mine workings), and operating equipment; and (6) the installation or construction of new buildings, fixtures, and fixed improvements (exclusive of mine workings). Do not report these costs under Categories (2), (3), (4), and (7).

Under Category (7) include all miscellaneous claimed costs such as repairs (other than initial) and maintenance of equipment, sampling and analysis, travel, communication, accounting, office expenses, and the Operator's share of payroll taxes and insurance.

Except for amounts claimed under "fixed unit costs" provisions of the contract, all costs claimed in this voucher must be supported by documentary evidence consisting of: (a) certified copies or transcripts of payrolls which list each employee, wage rate, period of employment, gross earnings, itemized deductions, and net earnings; (b) original or certified copies of invoices, statements of accounts, or purchase orders which indicate items of materials or services, quantities, unit prices, total charges, and payment terms; and (c) certified memoranda of the Operator for such items as depreciation of Operator-owned equipment, unemployment taxes, and employee's liability insurance. The certification may be stated thus, "Certified True Copy (or Transcript)", followed by the signature of the Operator or his agent. One copy of each document should accompany the original of this voucher.

The requirement for submitting documentary evidence of claimed costs may be waived by the OME regional Executive Officer if he determines that it is impracticable for an Operator to submit this material. In any case of waiver of this requirement an "on-site" audit by an OME auditor is mandatory prior to payment of the final Operator's Monthly Voucher.

FORM 6
T. 1959

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

OPERATOR'S PROGRESS REPORT For Month of August, 1967 Docket No. OMC-6415

Operator's Name RIMCO - LEMARO, INC. Contract No. 14-23-090- 2236

OPERATION	UNITS	FOR OPERATOR'S USE: UNITS THIS MONTH	UNITS TO DATE	COSTS TO DATE	FOR GOVERNMENT USE: APPROVED UNITS THIS MONTH	APPROVED UNITS TO DATE	APPROVED COSTS TO DATE
Drifting: Labor - ass't	- monthly		salary	1,950.00	1	3 mo. 47 hrs	2067.50
Cross: coming in hole	ft.	0	42	126.00	—	42	126.00
Raising: in-hole survey	hrs.	4	8	96.00	4	4	96.00
Shafts: reaming	ft.	60	113	429.40	60	113	429.30
Winzes: bulldozing	hrs.	16	23	336.00	16	23	336.00
Other Underground							
Drilling, Core-Diamond	ft.	428	1,160	11,263.19	428	1168	*7647.35
core boxes	no.	34	54	54.00	34	34 ?	34.00
Drilling, Non-core-Diamond							
Rotary							
Churn							
Percussion							
Miscellaneous: cementing	hrs	14	168	2,100.00	14	168	2100.00
additives	sacks	28	62	408.23	28	62	408.23
Roads and Trails							
Stripping							
Trenching							
Test Pitting							
Other Surface Work: vehicular mileage	miles	1,206	6,124	734.88	1206	6924	830.88
Initial Rehabilitation and Repairs: Mobilization 50%				175.00	—	1/2	175.00
Rehabilitation of Mine Workings: Accounting, office				133.33	1 Mo.	3.333	133.33
New Buildings, Fixtures, etc.: Payroll taxes				410.61	1 Mo.	2.333	282.07
Operating Equipment Purchases							
Analytical Work: 296 determinations				936.50	None	99 Ag, 98 Pb-Zn, 2 Pb	542.50
TOTAL TO DATE (per MME Form 60)				$19,153.14			19197.90

REMARKS

(Continue on back)

REMARKS
* Drilling only

(Continue on back)

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 Sept. 22, 1967 Operator RIMCO-LEMARO, INC.

Per Henry L. Stein Title V. Pres.

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

I certify that the information above is complete and accurate to the best of my knowledge and belief.

Signature R. M. Smith

Title Geologist
Government Representative

Date Sept. 27, 1967

(INSTRUCTIONS ON REVERSE)

REMARKS (Cont.)

REMARKS (Cont.)

INSTRUCTIONS FOR PREPARING OPERATOR'S PROGRESS REPORT, MME FORM 61

This report is the second of the three parts of the Operator's Monthly Report. Submit the original and four copies.

The cost for each operation should be the total of all claimed costs attributable to that type of work with two exceptions, namely—operating equipment purchased and analytical work which are stated separately. For example, drifting costs should be the total of all costs chargeable to drifting including supervision, technical services, timbering (if any), etc. Similarly, drilling costs should include the cost of cementing, reaming, core boxes, etc. This procedure of distribution holds whether the contract was written on an actual cost or a unit cost basis, or some combination of the two. Distribute the cost of such general items as supervision, equipment rented, etc. according to relative footages or on some other conventional basis. The item "Initial Rehabilitation and Repairs" covers all rehabilitation and/or repairs other than the rehabilitation of mine workings.

The item titled "Drilling, Non-core Percussion" includes all drilling performed with wagon, jack-hammer, stoper and mounted drills. The several items labelled "Other" are provided to take care of particular exploration operations not specified on this form.

NARRATIVE REPORT OF OPERATIONS FOR MONTH OF AUGUST, 1967

Rheco - Lenado, Inc., Operator

Lenado Area, Pitkin County, Colorado

Docket No. OME-6415

Contract No. 14-23-090-2236

-

Drilling continued in DDH 2 from 160' depth on August 1 to the hole bottom of 285 feet. From the overburden depth of 147 feet the bedrock was all Parting Quartzite, proving the existence of an east-west crossfault (the Woody Fault?) north of the drill hole. No mineralization nor fine fault gouge was observed, hence no samples were taken. Our log of this hole, submitted with our July Voucher, shows 280 feet as the hole bottom, but the drillers continued another five feet, with virtually no recovery. The total average recovery for this hole was about 24%.

On August 4 we had our road and site completed for DDH 1, the location of which is shown on the project area map, scale 1" = 200 feet, that was submitted with the July voucher. The purpose of DDH 1 was to penetrate the Leadville formation and enter the Lenado Fault Zone. Unfortunately the overburden was considerably deeper than expected - 117 feet according to the drill contractor, and 121 or 122 feet by our measurements, and the top of the Leadville, at the "Silver Fault", was missing. The hole was drilled over it in gravels. We encountered Leadville dolomite from 121 or 122 feet to about 163 feet - all of it fair zinc. Strong indications of a major fault appeared at about 163 feet, with much gouge and brecciated cores. This zone of faulting continued to the hole bottom at 222 feet. There was no water return, hence no sludge samples for this hole. At 222 feetthe hole was abandoned by the drill contractor because it was thoroughly plugged with steel casing, bits, drill rods, core barrel and fishing tools. From the bottom of the overburden to the bottom of the hole was a highly altered dolomite, bleached and leached, light-colored and oxidized, highly brecciated beyond 163 feet. It was not possible to identify this dolomite. Mr. Bruce Bryant, of the U.S.G.S. agreed that it could be Leadville, Manitou or Dyer. We are calling it Leadville to the fault (at about 163'), and Manitou thereafter. Subsequent drilling into the Sawatch, under the Manitou, and assay returns of both dolomites, have fairly well assured this distinction. With rare exceptions

(and not all assays have yet been returned) the values in silver, lead and zinc are in the top 45 to 50 feet, or before the fault. For instance, from 122' to 167' we have a weighted average of 45 feet of 9.42% zinc. At 14¢ this is $26.38/ton, gross. Unfortunately, the weighted average % recovery for this 45' was 12.9 - and, to repeat, there were no sludges for a double check. Depending upon the dip of the bids and the strike vs. the hole bearing, and the hole dip (about 50°) the true width of this 45 feet is more like 25 feet. Even so, this might conceivably be commercial zinc if there is enough of it. With one exception, zinc was the most predominant mineral for the remainder of the hole, down to 222 feet. The exception was from 179' to 180' where we had 7.3 oz. silver, 1.1% lead, and 1.8% zinc. This interval was a rare 100% recovery.

Of interest is the interval from 162' - 167', or just in the northern fault face, with a weighted average of 3.18 oz. silver, 0.87% lead, and 7.78% zinc, or just under $30/ton at today's gross market prices. This true width would be just under 3 feet.

Because of the northern edge of the Lenado wide fault zone dipping north, instead of the expected south dip, DDH 1 also missed the bottom of the Leadville, or the important Gilman sand member. Thus, we only nicked the center of the Leadville, for 40 - 45', or less than 25' true width.

A log of DDH 1, with lithological descriptions, recovery percentages, and assay returns, is attached.

Around August 20 the drill contractor decided to abandon this hole at 222 feet, and offset with a new hole. The offset hole was 8 feet northeast, same dip and parallel to the original hole. The new hole we have named DDH 1-Offset. This hole was drilled to a depth of 303 feet at month's end. No. 1 Offset confirmed our geology as projected for No. 1. We hit definite Sawatch Quartzite, Cambrian, at 287 feet, so the dolomite on top of it must have been the Manitou. Again, we hit bedrock at about 122 feet, with a little recognizable dolomite core from 121 - 122 feet. Through the good section in the first hole (high zinc), from 122' - 147' there was zero core recovery - but there were some rather remarkable sludges. So far, there has appeared more silver in these sludges and slimes than we have ever had in cores. Reference is made to the attached copy of the log of this hole,

with lithological descriptions, recovery percentages, and assay returns for all cores to the 303' Sept. 1 bottom and all but a few of the sludges. Starting at the "top", from 122' - 132', in the slimes we had an average of 28 ounces of silver. From 135' down to 167' we had fifteen samples than ran from 0 ounces up to 17.1 ounces, with low lead and zinc (although the lead was higher in the slimes than in the corresponding cores that started at 147 feet). From 167' to 172' we got our highest silver to date: 57.9 ounces, with 9.4% lead, and 4.65% zinc. Again, at 200' - 210' we had 47.4 ounces silver, 7.20% Lead, and 5.10% Zinc.

We visualize thin clay-gouge seams of good silver, that won't core, that goes into fines that wash up with the cuttings. It is also possible that we are having a "concentrating process" in the catching of these sludges, since the pan is shallow, due to a low stand-pipe in the hole, with heavier material remaining in the pan while the lighter gangue material is washing away. Henceforth we have given instructions to have a high stand-pipe so we can put our high pails under it to get all of the sludges and slimes. At any rate, even with the extreme unreliability of the cuttings, even to knowing exactly where the material comes from, it is gratifying to know that there is silver in the vicinity - hopefully, at depth.

The cores were generally disappointing. The small amount of dolomite from 121-122 yielded the expected zinc: 6.9%, and all three metals picked up somewhat in the same zone they did in the first hole: from 162' - 168'. In the original hole there was only 15% recovery through this north fault face, and in this hole there was only 22% recovery, so again it is difficult to visualize just what we have, both in grades and thicknesses. In the 47.4 ounce-silver zone from 200 - 210' (in sludge) the cores picked up in zinc only, with an average of over 5.5%, with very little or no silver or lead. From 245' - 249.5' we had an average of 13.3% zinc in the cores.

From 249.5 to the bottom of the Manitou at 287', and into the Cambrian Sawatch to month's end at 303 feet, all values dropped markedly in the cores. There are a few sludge samples drying in our core shed for this interval, butfor the most part there was no water return.

John P. Kellogg Jr

John P. Kellogg
General Manager

MME FORM 60
SEPT. 1965

OFFICIAL COPY
U. S. M. E.
RECEIVED
OCT 11 19
INITIALS

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

Docket No. CME-6415
Contract No. 14-23-090-2236
Contract Amount $78,800.00
Gov't. Participation % 75 $ 59,100.00
Mineral(s) Silver

OPERATOR'S MONTHLY VOUCHER

For Month of July, 1967

Operator's Name Richmond Hill Exploration Company, Inc.
Address P. O. Box 939, Aspen, Colorado 81611

COST CATEGORIES	FOR OPERATOR'S USE: MONTHLY TOTAL	PREVIOUSLY REPORTED	TOTALS TO DATE	FOR GOVERNMENT APPROVAL ONLY: MONTHLY TOTAL	PREVIOUSLY REPORTED	TOTALS TO DATE
Fixed Unit Costs and						
(1) Independent Contracts:						
Bulldozing	0	112.00	112.00			
Drifting						
Crosscutting Reaming	171.00	30.40	201.40			
Drilling Dia. Core	3,296.66	1,867.35	5,164.01	3296.60		
cementing time	275.00	1,650.00	1,925.00			
mobilization 50%	0	175.00	175.00			
(2) Personal Services:						
Supervision & Technical	910.00	1,213.33	2,123.33			
Outside Consultants						
Labor	650.00	650.00	1,300.00			
(3) Operating Mat'l. & Supplies:						
Timber						
Explosives						
Pipe						
Rail						
cement additives	42.68	155.55	198.23			
core boxes	20.00	0	20.00			
in-hole surveying	48.00	0	48.00			
casing in hole	126.00	0	126.00	0		
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehab. & Repairs:						
Buildings, Fixtures, etc.						
Operating Equipment						
(6) New Buildings, Fixtures, etc.						
(7) Miscellaneous:						
Repairs to Equipment	936.50	0	936.50			
Analytical Work	128.54	153.53	282.07	540.50		
Payroll Taxes						
Employee's Liability Ins.						
vehicle mileage	210.48	379.68	590.16			
accounting, office	40.00	53.33	93.33			
		$6,440.17				
TOTALS	$6,854.86		$13,295.03	3832.80		

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

Date Aug. 28, 1967 Payee Richmond Hill Exploration Company, Inc.

Per Wm. R. Ruley Title President

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

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

(INSTRUCTIONS ON REVERSE)

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

$ 4,589.47 14X0804

Signature JDM
(Authorized Certifying Officer)

Date OCT 4 1967 Vou. No. 82672

Certification by Government Representative:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating an exploration project in accordance with the terms of Contract No. 2236

Signature J. William Hasler Title Field Officer Date 9/8/67

Approved by OME Executive Officer or Alternate:

Signature J. William Hasler Title Field Officer Date 9/8/67

OPERATOR'S MONTHLY REPORT

The Operator, under an Office of Minerals Exploration contract, is required to report monthly to the Government. The report consists of three parts.

FIRST, the Operator's Monthly Voucher on MME Form 60 listing the project costs incurred and claimed by the Operator is the voucher basis for payment of the Government's share of the cost.

SECOND, the Operator's Progress Report on MME Form 61 is a statistical report of the units and cost of of work performed under the contract.

THIRD, the Operator's Narrative Report is a concise description of the work performed, results accomplished, and any unusual situations encountered, illustrated and supported by engineering-geological maps or sketches, drill hole logs, assay reports, etc., as pertinent.

The Operator submits the original and four copies of each of the three sections of this report to the OME regional Executive Officer at the end of each month during the life of the contract.

PREPARATION OF OPERATOR'S MONTHLY VOUCHER, MME FORM 60

After all applicable spaces are filled in, the Operator or his agent must sign the certification in the lower left corner. Categories (2) through (7) apply to "Actual Cost" contracts only.

Under "Fixed Unit Costs" and Category (1) report, (a) the total fixed unit costs of work performed under contract provisions for contribution by the Government on a basis of "fixed unit costs"; and (b) the claimed costs of work performed on a unit-price basis by independent contractors.

Under Category (2) include the claimed costs of all payrolled and invoiced supervisory, technical, and labor personnel, except the costs for services applicable to Categories (5) and (6).

Under Category (3) include the claimed costs of all project materials and supplies other than those used for work under Categories (5) and (6).

Under Category (4) report claimed rentals on equipment belonging to a third party, claimed payments or obligations for payments on the Operator's purchase of equipment, and claimed depreciation for the use of Operator-owned equipment.

Under Categories (5) and (6) include all claimed costs of labor, supervision, technical services, operating materials and supplies, and all other items used in (5) the initial rehabilitation and repairs of existing buildings, fixtures, installations (exclusive of mine workings), and operating equipment; and (6) the installation or construction of new buildings, fixtures, and fixed improvements (exclusive of mine workings). Do not report these costs under Categories (2), (3), (4), and (7).

Under Category (7) include all miscellaneous claimed costs such as repairs (other than initial) and maintenance of equipment, sampling and analysis, travel, communication, accounting, office expenses, and the Operator's share of payroll taxes and insurance.

Except for amounts claimed under "fixed unit costs" provisions of the contract, all costs claimed in this voucher must be supported by documentary evidence consisting of: (a) certified copies or transcripts of payrolls which list each employee, wage rate, period of employment, gross earnings, itemized deductions, and net earnings; (b) original or certified copies of invoices, statements of accounts, or purchase orders which indicate items of materials or services, quantities, unit prices, total charges, and payment terms; and (c) certified memoranda of the Operator for such items as depreciation of Operator-owned equipment, unemployment taxes, and employee's liability insurance. The certification may be stated thus, "Certified True Copy (or Transcript)", followed by the signature of the Operator or his agent. One copy of each document should accompany the original of this voucher.

The requirement for submitting documentary evidence of claimed costs may be waived by the OME regional Executive Officer if he determines that it is impracticable for an Operator to submit this material. In any case of waiver of this requirement an "on-site" audit by an OME auditor is mandatory prior to payment of the final Operator's Monthly Voucher.

SEP 25 1967 FINANCIAL REPORTS

MME FORM 61
SEPT. 1959

HIL
Vol 837

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

OPERATOR'S PROGRESS REPORT For Month of July, 1967 Docket No. OME-6415

Operator's Name Richmond Hill Exploration Co., Inc. Contract No. 14-23-090-2236

OPERATION	UNITS	FOR OPERATOR'S USE: UNITS THIS MONTH	UNITS TO DATE	COSTS TO DATE	FOR GOVERNMENT USE: APPROVED UNITS THIS MONTH	APPROVED UNITS TO DATE	APPROVED COSTS TO DATE
Labor, ass't - monthly salary				1,300.00	1	2 Mo + 47 hrs	1,417.50
Drilling: Casing in hole	ft.	42	42	126.00	42'	42'	126.00
Core-Drilling: in-hole survey	hrs.	4	4	48.00	4	4	48.00
Blasting: reaming	ft.	45	53	201.40	45	53	201.40
Shafts: bulldozing	hrs.	0	7	263.66	0	7	263.66
Winzes							
Other Underground							
Drilling, Core-Diamond	feet	464	740	7,135.68	464	740	7,135.68
Core boxes Rotary	no.	20	20	20.00	20	20	20.00
Drilling, Non-core-Diamond							
Rotary							
Churn							
Percussion							
Miscellaneous: Cementing	hrs	22	154	1,950.00	22	154	1,925.00
Additives	sacks	6	34	198.23	6	34	198.23
Roads and Trails							
Stripping							
Trenching							
Test Pitting							
Other Surface Work: Vehicular mileage	miles	1,754	4,918	590.16	1,754	5,718	686.16
Initial Rehabilitation and Repairs: Mobilization 50%				175.00			175.00
Rehabilitation of Mine Workings: Accounting, office				53.33			53.33
New Buildings, Fixtures, etc.: Payroll taxes				282.07			153.33
Operating Equipment Purchases							
Analytical Work: 296 determinations				936.50			936.50
TOTAL TO DATE (per MME Form 60)				$13,295.00			$13,339.79

REMARKS

(Continue on back)

REMARKS

Disallow

(1) 42 ft. casing in hole $ 126.00
(Not certain whether casing was lost or left in hole at operators request. If former, can be reclaimed.)
Analytical work 396.00
(See Summary sheet of Miscellaneous costs)
(3) Error in drill cost for month on Form 61 0.06
(Continue on back) Total disallowance $ 522.06

A. Kibbe

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 Aug. 28, 1967 Operator Richmond Hill Exploration Company, Inc.

Per W M Kelley Title President

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

I certify that the information above is complete and accurate to the best of my knowledge and belief.

Signature J. William Hasler

Title Field Office Government Representative

Date Sept 8, 1967

(INSTRUCTIONS ON REVERSE)

REMARKS (Cont.)

REMARKS (Cont.)

INSTRUCTIONS FOR PREPARING OPERATOR'S PROGRESS REPORT, MME FORM 61

This report is the second of the three parts of the Operator's Monthly Report. Submit the original and four copies.

The cost for each operation should be the total of all claimed costs attributable to that type of work with two exceptions, namely—operating equipment purchased and analytical work which are stated separately. For example, drifting costs should be the total of all costs chargeable to drifting including supervision, technical services, timbering (if any), etc. Similarly, drilling costs should include the cost of cementing, reaming, core boxes, etc. This procedure of distribution holds whether the contract was written on an actual cost or a unit cost basis, or some combination of the two. Distribute the cost of such general items as supervision, equipment rented, etc. according to relative footages or on some other conventional basis. The item "Initial Rehabilitation and Repairs" covers all rehabilitation and/or repairs other than the rehabilitation of mine workings.

The item titled "Drilling, Non-core Percussion" includes all drilling performed with wagon, jack-hammer, stoper and mounted drills. The several items labelled "Other" are provided to take care of particular exploration operations not specified on this form.

INT.DUP. D.C.59— 27162

UNITED STATES
DEPARTMENT OF THE INTERIOR
U. S. Geological Survey
Branch of Budget and Finance
Washington, D. C. 20242

ADMINISTRATIVE SUSPENSION STATEMENT

Name and Address of Payee: Rhoco-Lonado, Inc.
P.O. Box 939
Aspen, Colorado 81611

Amount Claimed:	Differences (Explained Below)	Amount Approved
$6082.56	$1,621.61	$6,460.95 $4,845.71 Government Participation
Bu. Voucher No.	Payee's Invoice No.	Period
	Rocket # 6415 Contract # 2236	May 67, July 67

EXPLANATION

Can. Reclaim

May 67 Reclaim voucher

Bulldozing	$ 112.00		
Diamond core-drilling	416.05		
Cementing time	112.50		
Mobilization 50%	175.00		
Cement additives	22.50		
Vehicle mileage	48.00		
Disallowed (Previously paid on May 67 voucher)		$ 886.05	—
July 1967 voucher			
Labor paid May 67 voucher	117.50		
" allowable May 67 per your letter Aug. 23, 67	-0-		
Disallowed		117.50	—
Vehicle mileage paid May 67 voucher	144.00		
" " allowable May 67 per your letter Aug 23 67	48.00		
Disallowed		96.00	—
Disallowed 42' casing in hole (not certain whether casing was lost or left in hole at Operator's request. If former, can be reclaimed.)		126.00	126.00
Analytical Work claimed	$ 935.50		
Allowed 99 silver samples @ 1.50 ea.	148.50		
" 98 lead & zinc samples @ 4.00 ea.	392.00	540.50	
Disallowed Any reclaim for items deducted		396.00	—
must be supported by the original of	Error in drill cost	.06	—
this statement and submitted to the	Total Disallowed	1,621.61	
office shown above.			

J. P. McAllister
Branch of Budget and Finance

Richmond Hill Exploration Company Inc.

P. O. Box 939

ASPEN, COLORADO 81611

Telephone 925-3717

August 31, 1967

Mr. J. William Hasler, Field Officer
Office of Minerals Exploration
U. S. Department of the Interior
Building 25, Room 2284, Federal Center
Denver, Colorado 80225

Re: OME-6415 (Silver)
Lenado Area
Contract 2236

Dear Bill:

Under cover of this letter are one original and three copies of our Report of Operations for July, 1967. Attached to each of the four Reports are the Narrative, the completed and signed MME Form 6C Voucher, the completed and signed MME Form 61 Progress Report, an extra page for the computing of Miscellaneous Costs not shown on normal invoices, a Plan Map, scale 1" = 200' of the Project Area showing geology, claims, drill hole locations and former mine workings, lithological logs for holes 4 and 2, and an assay list (3 pages) of determinations made and paid for through July 31.

Attached to the original are: Boyles Bros original Invoice, original Assay Report sheets to correspond with the list, above, and Xerox copies of the Operator's voucher checks for (a) Payroll, (b) office rent, (c) Accounting, and (d) non-jeep mileage used on project.

Sincerely yours,

John P. Kellogg

John P. Kellogg,
General Manager

NARRATIVE REPORT OF OPERATIONS FOR MONTH OF JULY, 1967

Richmond Hill Exploration Company, Inc., Operator

Lenado Area, Pitkin County, Colorado

Docket No. OME-6415

Contract No. 14-23-090-2236

-

Drilling continued in DDH 4 from 276 feet to the hole bottom at 580 feet. This was completed with AX size rods in extremely difficult ground. Recovery was poor, not over 15% average, with many intervals of no core at all. This made it necessary to catch cuttings-slimes which, fortunately, returned with the aid of drilling mud and cement. This accounts for the excessive number of assay determinations of cuttings and sludge. With so little core it was difficult to recognize formations, and we penetrated over one hundred feet of the Dyer Dolomite (and we are not absolutely certain of this), before we could determine that we had left the Leadville. If we are correct, the Gilman Sand Member of the Leadville should lie between 441 and 456. This is strengthened by the high assay of about 5" of core, which is all we had from 441 to 452 of 10.05 oz. Silver, 28.5% Lead, 18.2% Zinc, and 0.16% Cadmium. Unfortunately, this section had no sludge returns either, for a check.

We moved to DDH 2, north of Woody Creek on attached Plan Map. At this point, at 45° inclination, we penetrated 147 feet of overburden. Bedrock down to the hole depth of 160 feet at month's end proved to be Parting Quartzite, indicating a fault displacement north of DDH 2 (Woody Creek Fault?), with a horizontal throw of nearly 200 feet. At month's end plans were hurriedly made to get a bulldozer for access road and site for a new hole, since the continuing of this hole beyond the Parting Quartzite was without purpose.

Logs and sections for both holes are attached. Assay lists, with intervals, are attached. A plan map of the Project Area, scale 1" = 200', with the hole locations, claims, known geology, and former mine workings, is attached. On this map the "marker" bed of Parting Quartzite, is colored purple.

John P. Kellogg
General Manager

John P. Kellogg

THE COMPUTING OF MISCELLANEOUS COSTS FOR JULY, 1967

1. Payroll Taxes: FICA @ 4.4% plus State Compensation Insurance @ 3.84% = 8.24% x $910.00 Supervision & Technical plus $650 Labor = $128.54

2. Vehicle mileage: Jeep mileage 8/1 34915
7/1 33269
1646
3 Bronco round trips @ 36 miles 108
total miles: 1754 @ 12¢ 210.48

3. Analytical Work: (No gold determinations)
99 Silvers @ $1.50 148.50
197 Leads and Zincs @ $4.00 788.00
936.50

4. Accounting, Office: Rent was $150; accounting was $60 Maximum allowed 40.00

(For 3 and 4, above, voucher checks and/or statements attached)

99 silver samples @ $1.50 = $148.50 $936.50 claimed
98 lead and zinc samples @ $4.00 392.00 540.50 allowed
Allowable $540.50 $396.00 disallowed

H. Kirkemo 9/22/67

LENADO CORE HOLE ASSAYS

OME Docket # 6415 Contract 2236

(All in DDH 4 - First Hole Drilled)

Through July 31, 1967

Sample Number	Interval	Oz. Ag.	% PB.	% ZN.	Other	Description or Remarks
731	47-50	0.02	0			Core
732	92-93	0.02	0	0	0.018 Cu.	Dark blue mud
750	143-151	0.04	0.5	0.4		Core
747	149-155	0.09	0.8	1.0		Core
746	155-160	0.10	1.2	1.0		Core
749	160-171	0.04	0	0.2		Core
741	158-168	0.02	0	1.1		Cuttings
751	171-199	0.04	0.4	0.4		Selected gouge
752	191-199	0	0	0		Clay gouge & Core
753	203-204	0	0.4	0		Core
754	205-217	0.04	0	0.2		Core
755	217-238	0.06	0	0.1		Core
756	238-258	0.04	0	0.1		Core
742	248-250	0.02	0	0.1		Cuttings
743	250-255	0.02	0.7	0.1		"
744	255-260	0.02	0	Tr.		"
745	255-260	0.02	0	0.1		" (sampled on re-drilling)
761	260-265	0.02	0	0.1		"
762	265-267	0.02	0.4	0.1		"
760	265-267½	0	0	0.8		Core
763	267-272	0.02	1.2	0.2		Cuttings
733	267½-268	0.02	0	0.2		Core
734	268-292	0.04	0	0.2		Core
787	272-283	0	0	0.1		Cuttings
774	283-289	0.02	0	0.3		"
786	289-292	0.02	0	0.2		"
785	292-297	0	0	0.8		"
735	292-297	0.04	0	1.7		Core
736	297-307	0.02	0	Tr.		Core
775	297-307	0.02	0	0.2		Cuttings
779	307-312	0.02	0	0.5		"
		31	31	30	(O.M.E. Determinations)	

Lenado Core Hole Assays, DDH 4
Through July 31, 1967 (Continued)

Sample Number	Interval	Oz. Ag.	% Pb.	% Zn.	Other	Description or Remarks
789	312-316	0.02	0	0.1		Cuttings
737	312-316	0.02	0	1.0		Core
738	316-323	0.04	0	0.9		Core
773	316-321	0.02	0	0.3		Cuttings
791	321-326	0.02	0	0.7		"
740	324-326	0.02	0	0.8		Core
792	326-331	0.02	0	Tr.		Cuttings
739	326-333	0.02	0	0.1		Core
783	331-333	0.02	0	0.2		Cuttings
781	336-341	0.02	0	0		"
776	341-346	0.02	0	0.3		"
790	346-351	0.02	0	0.5		"
782	351-355	0.04	0	0.6		"
780	355-360	0.04	0	0.5		"
784	360-364	0.02	0	0.7		"
788	364-370	0.02	0	0.2		"
777	370-373	0.02	0	0.3		"
770	373-376	0.04	0	0.7		"
766	376-384	0.04	0	0.3		Core
730	384-390	0.04	0	0.5		Cuttings
767	384-390	0.04	0	0.6		Core
778	390-395	0.02	0	0.5		Cuttings
771	395-400	0.03	0	0.7		Cuttings
768	390-400	0.02	0	0.8		Core
822	400-408	0.04	0.2	0.6		Cuttings
769	400-416	0.04	0	0.8		Core
772	408-416	0	0	0.3		Cuttings
823	416-419	0.04	0	0.5		"
826	419-424	0.04	0.5	0.5		"
824	424-430	0	0	0.5		"
728	430-436	0.04	0	0.4		"
765	430-441	0.06	0	1.3		Core
795	436-441	0.02	0	0.7		Cuttings
764	441-452	10.05	28.5	18.2	0.16 Cd. 0.025 Cu	4-5" core; Galena; no cuttings retur
		34	34	34	(O.M.E. Determinations - Page 2)	

Lenado Core Hole Assays, DDH 4
Through July 31, 1967 (Continued)

Sample Number	Interval	Oz. Ag.	% Pb.	% Zn.	Description
796	452-454	0	0	0.8	Cuttings
794	454-456	0.02	0	0.7	"
797	456-458	0.02	0.6	0.8	" Top of Dyer Dolomite ?
793	458-460	0.04	0.4	0.3	"
798	460-462	0.02	0	Tr.	"
799	462-464	0.02	0	0	"
720	464-466	0.06	0.2	0.2	"
727	466-468	0.10	1.0	0.5	"
721	470-472	0.08	0.25	0.3	"
825	472-474	0.06	0.5	0.5	"
724	474-476	0.10	0.3	0.7	"
723	476-478	0.08	0.3	0.5	"
725	478-480	0.12	0	0.5	"
802	480-481	0.08	0	0.5	"
729	481-483	0.06	0	0.5	"
726	483-485	0.10	0.15	0.6	"
804	485-486	0.08	0.3	0.5	"
717	486-491	0.08	0.5	0.4	"
722	491-496	0.06	0	0.1	"
827	496-501	0.06	0	0.6	"
821	501-506	0.08	0	0.6	"
805	510-512	0.06	0	0.5	"
718	512-516	0.08	0	0.5	"
828	516-520	0.05	0	0.6	"
829	520-524	0.02	0.3	0.5	"
830	524-526	0	0	Tr.	"
719	526-530	0.08	0.3	0.5	"
831	530-534	0.02	1.0	0.1	"
832	534-536	0.02	0	0.3	"
833	536-541	0	0	0.8	"
834	541-545	0	0.1	0.9	"
835	546-551	0.02	0	0.8	"
803	558-570	0.06	0	1.3	Core
836	568-570	0.02	0.4	0.8	Cuttings
		34	34	34	
		34	34	34	(Page 2)
		31	31	30	(Page 1)
		99	99	98	(Total Number C.M.E. Determinations up to August 1, 1967)

MME FORM 60
SEPT. 1959

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

Docket No. GME-6415
Contract No. 2236
14-23-090- 70,800.00
Contract Amount $ 75 59,100.00
Gov't. Participation % 83% var
Mineral(s)

OPERATOR'S MONTHLY VOUCHER

For Month of Last ten days May, 1967

Operator's Name Richmond Hill Exploration Company, Inc.
Address P. O. Box 939, Aspen, Colorado 81611

COST CATEGORIES	FOR OPERATOR'S USE: MONTHLY TOTAL	PREVIOUSLY REPORTED	TOTALS TO DATE	FOR GOVERNMENT APPROVAL ONLY: MONTHLY TOTAL	PREVIOUSLY REPORTED	TOTALS TO DATE
Fixed Unit Costs and						
(1) Independent Contracts:						
Bulldozing	112.00	0	112.00	0		
Drifting						
Crosscutting						
Drilling Min. Core	410.05	0	410.05	0		
Cementing Pipe	112.50	0	112.50	0		
Mobilization 50%	175.00	0	175.00	0		
(2) Personal Services:						
Supervision & Technical	303.33	0	303.33			
Outside Consultants						
Labor						
(3) Operating Mat'l. & Supplies:						
Timber						
Explosives						
Pipe						
Rail						
cement additives	22.50	0	22.50	0		
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehab. & Repairs:						
Buildings, Fixtures, etc.						
Operating Equipment						
(6) New Buildings, Fixtures, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Analytical Work						
Payroll Taxes	24.99	0	24.99			
Employee's Liability Ins.						
vehicle mileage	40.00	0	40.00	0		
accounting, office	13.33	0	13.33			
TOTALS	1,227.70	0	1,227.70	341.65		

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

Date Aug. 24, 1967 Payee Richmond Hill Exploration Company, Inc.

Per W M B Ruby Title President

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

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

(INSTRUCTIONS ON REVERSE)

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

$ 256.24 14X0804

Signature John
(Authorized Certifying Officer)

Date OCT 4 1967 Vou. No. 82 672

Certification by Government Representative:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating an exploration project in accordance with the terms of Contract No. _____

Signature _____ Title _____ Date _____

Approved by OME Executive Officer or Alternate:

Signature _____ Title _____ Date _____

OPERATOR'S MONTHLY REPORT

The Operator, under an Office of Minerals Exploration contract, is required to report monthly to the Government. The report consists of three parts.

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PREPARATION OF OPERATOR'S MONTHLY VOUCHER, MME FORM 60

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INT.DUP.,D.C.69- 27161

MME FORM 61
SEPT. 1959

MK 8/24/67

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

OPERATOR'S PROGRESS REPORT

For Month of Last ten days May, 1967 Docket No. GMC-6415

Operator's Name Richmond Hill Exploration Co., Inc. Contract No. 14-23-090-2236

OPERATION	UNITS	FOR OPERATOR'S USE: UNITS THIS MONTH	UNITS TO DATE	COSTS TO DATE	FOR GOVERNMENT USE: APPROVED UNITS THIS MONTH	APPROVED UNITS TO DATE	APPROVED COSTS TO DATE
Drifting							
Crosscutting							
Raising							
Shafts Bulldozing	hrs.	7	7	$ 263.66	7	7	263.66
Winzes							
Other Underground					53	53	567.72
Drilling, Core-Diamond	foot	53	53	567.72			
Rotary							
Drilling, Non-core-Diamond							
Rotary							
Churn							
Percussion							
Miscellaneous cementing	hrs.	9	9	112.50	9	9	111.50
additives	sacks	3	3	22.50	3	3	22.50
Roads and Trails							
Stripping							
Trenching							
Test Pitting							
vehicular mileage	mile	400	400	40.00	400 HK ~~[illegible]~~	400 HK ~~[illegible]~~	40.00 HK ~~[illegible]~~
Other Surface Work							
Initial Rehabilitation and Repairs	Mobilization - 50%			175.00			175.00
Rehabilitation of Mine Workings	Accounting, office			13.33			13.33
New Buildings, Fixtures, etc.	Payroll expense			24.99			24.99
Operating Equipment Purchases							
Analytical Work							
TOTAL TO DATE (per MME Form 60)				$1,227.70			$1,227.70 HK ~~$1,223.70~~

REMARKS

(Continue on back)

REMARKS

1/ Work on contract during last ten days of May '67. HK

(Continue on back)

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 Aug. 24, 1967 Operator Richmond Hill Exploration Company, Inc.

Per Wm B Ruby Title President

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

I certify that the information above is complete and accurate to the best of my knowledge and belief.

Signature J. William Hosler

Title Field Officer
Government Representative

Date Sept. 7, 1967

(INSTRUCTIONS ON REVERSE)

REMARKS (Cont.)

REMARKS (Cont.)

INSTRUCTIONS FOR PREPARING OPERATOR'S PROGRESS REPORT, MME FORM 61

This report is the second of the three parts of the Operator's Monthly Report. Submit the original and four copies.

The cost for each operation should be the total of all claimed costs attributable to that type of work with two exceptions, namely—operating equipment purchased and analytical work which are stated separately. For example, drifting costs should be the total of all costs chargeable to drifting including supervision, technical services, timbering (if any), etc. Similarly, drilling costs should include the cost of cementing, reaming, core boxes, etc. This procedure of distribution holds whether the contract was written on an actual cost or a unit cost basis, or some combination of the two. Distribute the cost of such general items as supervision, equipment rented, etc. according to relative footages or on some other conventional basis. The item "Initial Rehabilitation and Repairs" covers all rehabilitation and/or repairs other than the rehabilitation of mine workings.

The item titled "Drilling, Non-core Percussion" includes all drilling performed with wagon, jack-hammer, stoper and mounted drills. The several items labelled "Other" are provided to take care of particular exploration operations not specified on this form.

INT DIP D C 59 27162

Richmond Hill Exploration Company Inc.

P. O. Box 939

ASPEN, COLORADO 81611

Telephone 925-3717

August 23, 1967

OME Region III
RECEIVED
AUG 29 1967
Denver

[illegible] E. Johnson, Chief
[illegible] of Minerals Exploration
United States Department of the Interior
Geological Survey
[illegible], D. C. 20242

Re: OME-6415 (Silver)
Lenado Area
Pitkin County, Colorado
Contract 2236

[illegible] Johnson:

Reference is also made to your letter of August 17 in [illegible] answered our letter of July 29, ad ressed to [illegible] William Hasler, relating to your suspension [illegible] for May, 1967.

Under cover of this letter are one original and three copies of new, revised MME Forms 60, Operator's Monthly [illegible], and 61, Operator's Progress Report for the last [illegible] of May, 1967, completed in accordance with the [illegible] in your letter, and signed. Also attached to [illegible] is an extra page of basic figures used to [illegible] the costs not shown on formal invoices, as you [illegible] in your last paragraph. In submitting these data [illegible] we assume (1) that no new Narrative Report for [illegible] required, and (2) that they be mailed, as usual, [illegible]ler in Denver.

[illegible] a few words of explanation should be made here to [illegible]ment the above-listed attachments.

1. There was no labor or assistant on May's [illegible] after the project starting date of May 22. The [illegible] claimed for labor in our original voucher was for [illegible], etc. between May 1 and May 22. Hence, it is not allowable, and is not being claimed.

2. For Supervision and Technical Services we have [illegible] the only payroll records we have: (a) May's payroll as [illegible] by Reese H. Henry, Jr., the certified public

accountant who handles all of the Operator's accounts, and enclosed with our letter of June 27 to Mr. J. William Hasler; (b) Xerox copies of salary checks paid in May by Operator to John P. Kellogg for supervision and technical services, attached to our July [illegible] letter to Mr. Hasler, and (c) a Xerox copy of the M[illegible] Payroll Report to the State Compensation Insurance Fund, also attached to our July 29 letter.

3. Regarding "job description, names, dates of employment, and amount paid". I was, as Project Supervisor, the only employee of the Operator during the last ten days in May. In this capacity I handled all geological mapping of surface and drill hole section, the logging and boxing of cores, lithological descriptions, sampling, splitting of cores, etc. I served as office manager for the Operator which included all business accounts and correspondence, drafting of maps, making print reproductions, engineering calculations for surveys, etc.

4. For the computation of costs for the last ten days of May we have taken one-third (33 1/3%) of the monthly total for four items. They are (1) Supervision and Technical, 1/3 of $910.00; (2) vehicle mileage, 1/3 of 1200 miles, or 400 miles; (3) "Accounting and office expense" under category (7) Miscellaneous in captioned contract, 1/3 of the Accounting bill of $60 (enclosed with our July 29 letter to Mr. Hasler) plus 1/3 of our office rent of $1[illegible], and (4) 1/3 of the FICA and 1/3 of the State Compensation as applied only to 1/3 of the Supervision and Technical Services allowance (no. 1, above).

5. The FICA is calculated at 4.4%, and State Compensation is calculated at 3.84%.

6. Our liability insurance is not based on payroll, hence is not allowable.

7. As to core boxes, this relatively minor item seems to effect a disproportionate amount of confusion. We will attempt a warehouse inventory as you requested.

Since the actual boxes are only made up as we progress, what will have to be inventories are mixed-up bales and loose piles of flattened bottoms, tops and dividers of all sizes. It would be an incredible coincidence if there were an equal number of each part to make X number of whole boxes. Also, made-up boxes are occasionally destroyed by rain, etc., which we do not claim but would figure in any inventory. It would be more accurate, far simpler, and far less time-consuming to count the boxes (which we number) that are actually filled with core and stored each month.

We hope we have found the formula, at last, for an acceptable voucher and will endeavor in the future to follow the procedures you have outlined.

Sincerely yours,

John P. Kellogg, General Manager
Richmond Hill Exploration Company, Inc.

x.c.: J. W. Hasler
Operator Officers & Stockholders

THE COMPUTING OF MISCELLANEOUS COSTS FOR MAY, 1967

1. Supervision & Technical, $910.00/mo.
Last ten days = 1/3, or - - - - - - - - - - - - - - - - $303.33
(This item applied equally to drilling and bulldozing on MME Form 61)

2. Payroll Taxes: FICA @ 4.4% plus State Compensation Insurance @ 3.84% = 8.24% x $303.33 - - - - - - - - - 24.99

3. Vehicle mileage total for month: 1200 miles
Pro-rated last ten days = 1/3, or 400 miles @ 12¢ - 48.00

4. Accounting & Office ($40/mo. allowable)
Accounting bill for May: $60; 1/3 = $20.00
Office rent for May: $100; 1/3 = 33.33

Total last ten days $53.33

Therefore, taking 1/3 of $40, or - - - - - - - - - - 13.33

5. Not claimed for last ten days of May: Labor-assistant; core boxes; liability insurance.

Copy to Washington
9/18/67

OME Region III
RECEIVED
SEP 15 1967
Denver, Colorado

September 14, 1967

OFFICIAL COPY
O. M. E.
RECEIVED
SEP 20 1967
INITIALS | CODE
jhe | 130
JHL | 120 m
110
HIL | 120
(smith)

Mr. J. Howard McCarthy, Jr.
Branch of Exploration Research
Geological Survey
U. S. Department of the Interior
Federal Center, Bldg. 25
Denver, Colorado 80225

Dear Howard:

Thank you for the semi-quantitative spectographic results on the samples we submitted. They tally extremely close to the Lab's assays for Silver, Lead & Zinc. Lower than I had expected were Fe, Mn, and Cd.

OME-6415 ?
Kos

Subsequent to these intervals sampled we have run into some really hot-looking cores, off and on all the way down to today's 514' depth. We are still in ground-up quartzite fault breccia, with no sign yet of granite (the south terminus of the Lenado Fault zone). We are very hopeful. No assay returns yet on the good stuff. May forward you the pulps for specs - if you could handle some more.

Sure appreciate your help. Looked for you at the Convention Monday, after which I had to get back here on the rig.

Regards,

John P. Kellogg

cc: J. W. Hasler

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
FEDERAL CENTER, DENVER, COLORADO 80225
Office of Minerals Exploration

September 6, 1967

OFFICIAL COPY
O. M. E.
RECEIVED
SEP 8 1967

INITIALS	CODE
glu	120 M
JH	110
glu	120 M
	120 S
	~~110~~

Memorandum

To: Chief, OME

From: Field Officer, Region III

Subject: OME-6415 (Silver)
Richmond Hill Exploration Co. Inc.
Lenado Area
Contract 2236

Enclosed is a supporting statement itemizing a reclaim for $128.54 relating to the attached suspension statement No. 81339, on the June 1967 voucher.

J. William Hasler
J. William Hasler
Field Officer, Region III

Hold until reclaim on Forms 6040-11 June is received — then attach

Copy to Dean McAllister 9/28/67

Copy to Washington 8-31-67 JLH

Richmond Hill Exploration Company Inc.

P. O. Box 939
ASPEN, COLORADO 81611

Telephone 925-3717

August 30, 1967

Mr. J. William Hasler, Field Officer
Office of Minerals Exploration
U. S. Department of the Interior
Building 25, Federal Center
Denver, Colorado 80225

Re: OME-6415 (Silver)
Lenado Area
Contract 2236

Dear Bill:

Regarding the attached Suspension Statement for June, we recalculated our "Disallowed payroll taxes", for which we had claimed $266.00 as follows:

Supervision & Technical	$910.00
Labor	650.00
Total Payroll	$1,560.00
@ 8.24%	$ 128.54 - RECLAIM

The 8.24% is calculated at FICA @ 4.4%, and
State Compensation @ 3.84%
8.24%

The core boxes we do not reclaim; hemceforth, as for July and this month we are using Boyles' Bros boxes, for which they will bill us on their Invoice.

Incidentally, our drilling is going great - high recovery, good footage and lots of mineral, if not ore. The present hole (No. 1) we lost at 222' with all kinds of "junk" in it, including 3 bits. The new hole, offset about six feet, and parallel, penetrated the same 121' of overburden, then immediately hi-zinc, over 16% in altered Leadville, and from there on to the present depth of about 280' we have had all mineral, considerable galena shows, lots of zinc, and, we hope, gratifying silver all through. We crossed into the Lenado Fault Zone at roughly 150.

We lost Billy Rubey Monday night with a massive coronary. A great loss to us and the community.

Sincerely yours,

John P. Kellogg

John P. Kellogg

attached: orig. Suspension Statement

Copy to Washington
8-31-67

Hill
81339

UNITED STATES
DEPARTMENT OF THE INTERIOR
U. S. Geological Survey
Branch of Budget and Finance
Washington, D. C. 20242

[illegible] BILLING SUPPRESSION STATEMENT

Richmond Hill Exploration Co. Inc.
P.O. Box 939
Aspen, Colorado 81611

$5,363. 43	$279.50	$5,083.93 $3,812.95 Govt. Participation
	Docket # 6415 Contract # 2236	June 1967

Disallowed payroll taxes (no supporting documents)	$266.00
Disallowed core boxes (no supporting documents)	13.50
Total disallowed	$ 279.50

[illegible] is a true and correct copy of the original [illegible] and submitted to the [illegible]

J. D. McAlister
Branch of Budget and Finance

RTD 8/10/67

MME FORM 50
SEPT. 1959

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

OFFICIAL COPY
O. M. E.
RECEIVED
AUG 17 1967
INITIALS

Docket No. OMB-6415
Contract No. 14-23-090-2236
Contract Amount $ 78,800.00
Gov't. Participation % 75 $59,100.00
Mineral(s) Silver

OPERATOR'S MONTHLY VOUCHER

For Month of June, 1967

Operator's Name Richmond Hill Exploration Company, Inc.
Address P. O. Box 939, Aspen, Colorado 81611

COST CATEGORIES	FOR OPERATOR'S USE: MONTHLY TOTAL	PREVIOUSLY REPORTED	TOTALS TO DATE	FOR GOVERNMENT APPROVAL ONLY: MONTHLY TOTAL	PREVIOUSLY REPORTED	TOTALS TO DATE
Fixed Unit Costs and						
(1) Independent Contracts:						
Bulldozing	0	112.00	112.00			
Drifting						
Crosscutting Reaming	30.40	0	30.40			
Drilling Dia. core	1,451.30	416.05	1,867.35			
cementing time	1,537.50	112.50	1,650.00			
Mobilization 50%	0	175.00	175.00			
(2) Personal Services:						
Supervision & Technical	910.00	910.00	1,820.00			
Outside Consultants						
Labor	650.00	117.50	767.50			
(3) Operating Mat'l. & Supplies:						
Timber						
Explosives						
Pipe						
Rail						
cement additives	133.05	22.50	155.55			
core boxes	13.50	4.00	17.50			
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehab. & Repairs:						
Buildings, Fixtures, etc.						
Operating Equipment						
(6) New Buildings, Fixtures, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Analytical Work						
Payroll Taxes	266.00	266.00	532.00			
Employee's Liability Ins.						
vehicle mileage	331.68	144.00	475.68			
accounting, office	40.00	40.00	80.00			
TOTALS	5,363.43	2,319.55	7,682.98			

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

Date July 19, '67 Payee Richmond Hill Exploration Company, Inc

Per [signature] Title President

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

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

(INSTRUCTIONS ON REVERSE)

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

$ 3,812.95 14X0804

Signature [signature]
(Authorized Certifying Officer)

Date AUG 17 1967 Vou. No. 81339

Certification by Government Representative:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating an exploration project in accordance with the terms of Contract No. 2236

Signature J. William Hasler Title Field Officer Date 8/7/67

Approved by OME Executive Officer or Alternate:

Signature J. William Hasler Title Field Officer Date 8/7/67

OPERATOR'S MONTHLY REPORT

The Operator, under an Office of Minerals Exploration contract, is required to report monthly to the Government. The report consists of three parts.

FIRST, the Operator's Monthly Voucher on MME Form 60 listing the project costs incurred and claimed by the Operator is the voucher basis for payment of the Government's share of the cost.

SECOND, the Operator's Progress Report on MME Form 61 is a statistical report of the units and cost of of work performed under the contract.

THIRD, the Operator's Narrative Report is a concise description of the work performed, results accomplished, and any unusual situations encountered, illustrated and supported by engineering-geological maps or sketches, drill hole logs, assay reports, etc., as pertinent.

The Operator submits the original and four copies of each of the three sections of this report to the OME regional Executive Officer at the end of each month during the life of the contract.

PREPARATION OF OPERATOR'S MONTHLY VOUCHER, MME FORM 60

After all applicable spaces are filled in, the Operator or his agent must sign the certification in the lower left corner. Categories (2) through (7) apply to "Actual Cost" contracts only.

Under "Fixed Unit Costs" and Category (1) report, (a) the total fixed unit costs of work performed under contract provisions for contribution by the Government on a basis of "fixed unit costs"; and (b) the claimed costs of work performed on a unit-price basis by independent contractors.

Under Category (2) include the claimed costs of all payrolled and invoiced supervisory, technical, and labor personnel, except the costs for services applicable to Categories (5) and (6).

Under Category (3) include the claimed costs of all project materials and supplies other than those used for work under Categories (5) and (6).

Under Category (4) report claimed rentals on equipment belonging to a third party, claimed payments or obligations for payments on the Operator's purchase of equipment, and claimed depreciation for the use of Operator-owned equipment.

Under Categories (5) and (6) include all claimed costs of labor, supervision, technical services, operating materials and supplies, and all other items used in (5) the initial rehabilitation and repairs of existing buildings, fixtures, installations (exclusive of mine workings), and operating equipment; and (6) the installation or construction of new buildings, fixtures, and fixed improvements (exclusive of mine workings). Do not report these costs under Categories (2), (3), (4), and (7).

Under Category (7) include all miscellaneous claimed costs such as repairs (other than initial) and maintenance of equipment, sampling and analysis, travel, communication, accounting, office expenses, and the Operator's share of payroll taxes and insurance.

Except for amounts claimed under "fixed unit costs" provisions of the contract, all costs claimed in this voucher must be supported by documentary evidence consisting of: (a) certified copies or transcripts of payrolls which list each employee, wage rate, period of employment, gross earnings, itemized deductions, and net earnings; (b) original or certified copies of invoices, statements of accounts, or purchase orders which indicate items of materials or services, quantities, unit prices, total charges, and payment terms; and (c) certified memoranda of the Operator for such items as depreciation of Operator-owned equipment, unemployment taxes, and employee's liability insurance. The certification may be stated thus, "Certified True Copy (or Transcript)", followed by the signature of the Operator or his agent. One copy of each document should accompany the original of this voucher.

The requirement for submitting documentary evidence of claimed costs may be waived by the OME regional Executive Officer if he determines that it is impracticable for an Operator to submit this material. In any case of waiver of this requirement an "on-site" audit by an OME auditor is mandatory prior to payment of the final Operator's Monthly Voucher.

MME FORM 61
SEPT. 1959

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

OPERATOR'S PROGRESS REPORT For Month of June, 1967 Docket No. [illegible]

Operator's Name Richmond Hill Exploration Company, Inc. Contract No. 14-23-090-2236

OPERATION	UNITS	FOR OPERATOR'S USE: UNITS THIS MONTH	UNITS TO DATE	COSTS TO DATE	FOR GOVERNMENT USE: APPROVED UNITS THIS MONTH	APPROVED UNITS TO DATE	APPROVED COSTS TO DATE
Drifting							
Crosscutting							
Raising							
Shafts Labor - Ass't. Monthly Salary				767.50	—	—	767.50
Winzes Bulldozing	hrs.	0	7	567.00	0	7	567.00
Other Underground							
Drilling, Core-Diamond	feet	223	276	3,232.35	233	276	3 232.35
core boxes	no.	20	24	17.50	20	20	13.50
Drilling, Non-core-Diamond							
Rotary							
Churn							
Percussion							
Miscellaneous Cementing	hrs	123	132	1,650.00	123	132	1,650.00
Additives	Sacks	25	28	155.55	25	28	155.55
Roads and Trails							
~~Stripping~~ Reaming	ft.	8	8	30.40	8	8	30.40
Trenching							
Test Pitting							
Vehicular mileage	miles	2,764	3,964	475.68	2,764	3,964	475.68
Initial Rehabilitation and Repairs Mobilization				175.00			175.00
Rehabilitation of Mine Workings Accounting, office				80.00			80.00
New Buildings, Fixtures, etc. P.I.C.A. payroll taxes				532.00			532.00
Operating Equipment Purchases							
Analytical Work							
TOTAL TO DATE (per MME Form 60)				7,682.99			7,678.98

REMARKS
Supervisor's salary all in drilling costs.
Exact costs used (less than contract costs): bulldozing, core boxes, additives

(Continue on back)

REMARKS

(Continue on back)

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 19, 1967 Operator Richmond Hill Exploration Company, Inc.

Per Wm B Kelley Title President

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

I certify that the information above is complete and accurate to the best of my knowledge and belief.

Signature J. William Hasler

Title Field Office Government Representative

Date August 7 1967

(INSTRUCTIONS ON REVERSE)

REMARKS (Cont.)

REMARKS (Cont.)

INSTRUCTIONS FOR PREPARING OPERATOR'S PROGRESS REPORT, MME FORM 61

This report is the second of the three parts of the Operator's Monthly Report. Submit the original and four copies.

The cost for each operation should be the total of all claimed costs attributable to that type of work with two exceptions, namely—operating equipment purchased and analytical work which are stated separately. For example, drifting costs should be the total of all costs chargeable to drifting including supervision, technical services, timbering (if any), etc. Similarly, drilling costs should include the cost of cementing, reaming, core boxes, etc. This procedure of distribution holds whether the contract was written on an actual cost or a unit cost basis, or some combination of the two. Distribute the cost of such general items as supervision, equipment rented, etc. according to relative footages or on some other conventional basis. The item "Initial Rehabilitation and Repairs" covers all rehabilitation and/or repairs other than the rehabilitation of mine workings.

The item titled "Drilling, Non-core Percussion" includes all drilling performed with wagon, jack-hammer, stoper and mounted drills. The several items labelled "Other" are provided to take care of particular exploration operations not specified on this form.

UNITED STATES
DEPARTMENT OF THE INTERIOR
U. S. Geological Survey
Branch of Budget and Finance
Washington, D. C. 20242

ADMINISTRATIVE SUSPENSION STATEMENT

Name and Address of Payee: Richmond Hill Exploration Co. Inc.
P.O. Box 939
Aspen, Colorado 81611

Amount Claimed:	Differences (Explained Below)	Amount Approved
$5,363.43	$279.50	$5,083.93 $3,812.95 Govt. Participation
Gov. Voucher No.	Payee's Invoice No.	Period
	Docket # 6415 Contract # 2236	June 1967

EXPLANATION

Disallowed payroll taxes (no supporting documents)	$265.00
Disallowed core boxes (no supporting documents)	13.50
Total disallowed	$ 279.50

Any reclaim for items deducted must be supported by the original of this statement and submitted to the office shown above.

J. D. McAllister
Branch of Budget and Finance

NARRATIVE REPORT OF OPERATIONS FOR MONTH OF JUNE, 1967

Richmond Hill Exploration Company, Inc., Operator
Lenado Area, Pitkin County, Colorado
Docket No. OME-6415
Contract No. 14-23-090-2236

Drilling advance for June in DDH 4 was 223 feet, from 53 feet to 276 feet. Size NX was cored to 76 feet; size BX was cored to 207 feet, and AX was cored to 276 feet. This was all wireline drilling. Size N casing was pushed to 43 feet; size B casing was pushed to 76 feet, and size A casing was drilled to 215 feet. The hole was reamed from 207 to 215 feet to permit the lowering of the A casing. Cementing and redrilling time was 123 hours, with the use of 25 sacks of cement. Drilling was done two shifts a day. Core recovery was just under 20%.

By the above redord it can be seen that problems were encountered. All of this advance was in the Beldon formation, which proved extremely incompetent - crushed, fragmented, brecciated, fissured, with considerable non-coring clay gouge. Return circulation was impossible without constant cementing. No important mineralization was found, although just over 1% Zinc was sampled between 149' and 156', with 1.2% Lead in a fault gouge from 155' - 156 feet.

Attached are the MME Forms 60, Operator's Monthly Voucher, and 61, Operator's Progress Report, necessary invoices and receipts, and a temporary "working log" of DDH 4 showing lithologic intervals and assays.

John P. Kellogg

John P. Kellogg,
General Manager

LENADO PROJECT DIAMOND DRILL HOLE # 4
DRILL CORE LOG SCALE 1" = 20'

BELDEN FORMATION

Depth	LITHOLOGY	ASSAYS (s = sludge)
0	47' Qs glacial overburden. NX cores good recovery. Cores consist of fragments of Pe boulders	
43'	base of NX casing; no shoe no cement	
47	base of overburden top of dark blue gray dolomite (Belden shale)	731 ~~47~~ → 48' .02 Ag nil Pb
	N/R	
60	24" small cores & reground frag. of tan dol & tan gry dol.; some fn. gr. pyr. cores show much brecciation & recem.	
70		
76	base of BX casing	
	N/R	
92	40" small reground frag. & broken cores. dk gry dol. Some fn. gr. pyr. core fract. healed w/ wht dol. darker gry blk than 60-70' interval. Finely veined. Dk gry on fresh cuts (fract.) med. gry on powdered drill cuts. Cone sampler recovered 8" blk. sandy, clayey mat. Pyr. x'ls.; lt blu gry (Cu stn)	732 92' sampled by cone sampler Hi count by D. Gagliardo. .02 Ag nil Pb
99		
	N/R	
110	30" frag. dol. same as 92-99	
117	18" frag. dol. same as 92-99	
125	12" " " " " one 2" core shows fault breccia w/ rounded frag. thoroughly recem. w/ blk gougy dol. powder. Maybe some organic mat. Small pyr. x'ls.	
135	40" dol. frag. same as 92-99 except 10% gry blk to carbon blk clayey dol.; v. fn. gr. prob. ½ clayey material. prob. org. mat. present	
147	4" rounded dol. pebbles; rnd'd by drill; prob. slump.	750 143-151 .04 Ag .5 Pb .4 Zn
149	6" med. gry. dol. frag & partial cores. 1½" shiny blk cly gouge w/ slicks. 2" lt. gry. fract. dolomitic sltst. one frag. w/ much pyr.; not mineralized.	747 149-155 .09 Ag .8 Pb 1.0 Zn
153	8" dol. frag. & gouge; both rnd'd & crushed pyr.; some post flt. pyr.	
155	6" med. gry claystone	
	6" med. gry. dol. pcb. same as 158-155 & 92-99	741s 158-168 .02 Ag nil Pb 1.1 Zn
	12" fault gouge same as 153-155	746 155-156 .10 Ag 1.2 Pb 1.0 Zn
	5" gry. clayst. " " "	749s 160-171 .04 Ag nil " 0.2 Zn
171	1½" lt. tan gry dol. w/ many parallel fract. filled w/ coarser gr. dol.	
172½	N/R 6" silty clyst. w/ slump type bedding @ 45° apparent dip. lt & med. gry.; irreg. streaks crudely parallel	
174	some lt. gry brecc. frag. (sedim. brec.?)	
176	12" clyst., sltst. & gouge w/ calcite veinlets. No lamin. in lower clyst.	
	non-lamin. clyst.; some clayey dol., some dol., some highly brecc. clyst.	751 171-199 .04 Ag .4 Pb .4 Zn
186	med gry. dol. frag.	
188	6" dol. frag.	
191	6" med. dk gry cly gouge v. soft. w/ finely dissem. pyr.	752 191-199 nil Ag nil Pb
	32" fault gouge & ls. frag. 4" med gry cly gouge	
	14" limestone same as the 30" unit. badly brecciated – almost to flt. gouge	
199	30" med. gry LIMESTONE; finely veined w/ calcite. Open vugs lined w/ calcite x'ls.; sev. diff. sets of fract. sev. large pyr. lumps 5-10 mm.	
203	15" rnd'd dol. frag.; dol. brecc. & med. gry cly flt gouge.	753 203-205 nil Ag .4 Pb
205	3" rnd'd gry dol. pcb. 2" lt gry cly gouge 4" med gry cly gouge w/ dol. frag.	
208	base of AX casing (215)	
212	4" dol. frag. 8" flt brec.; & lt gry dol. to wht dol.; groundmass med. gry dol. brec. frag & cly gouge.	754 208-217 .04 Ag nil Pb .2 Zn
	5" dol. frag.; 6" dol. brec.	
217	2" dol. sandstone(?). maybe flt mat.	
	10" dol. brec.; apparent dip 45° on core. 1" dol. frag. med.	
223	5" med. dk gry v. fn. gr. dol. shale. 3" dol. breccia, much pyrite	755 217-238 .06 Ag nil .1 Zn
228	18" cly gouge w/ dol. frag., much pyr.	
	2" med. gry dol.	
	30" cly flt. breccia w/ dol. frag.	
238		
243	1" dk. gry cly. gouge w/ dol. frag.	
	8" dk. gry cly gouge	
	15" med gry dol. pb dol. w/ thin stringers & small vugs	756 238-258 .04 Ag nil Pb .1 Zn
248		742s 248 .02 Ag nil Pb .1 Zn
250	4" med. gry clay dolomitic flt. breccia	743s 250 .02 Ag .7 Pb .1 Zn
	4" med. gry cherty dol. (slump?) & dol. flt. breccia	
255		744s 255 nil all
	med. gry dol. flt. breccia, gouge; pyrite abundant.	
258	20" dol. breccia; gry dol. enclosed in med gry groundmass. much pyr., finely brecciated	761s 260 .02 Ag nil Pb .1 Zn
260	4" dol breccia; shale, fn. gr., dk gry.	
265	18" dol breccia same as 258-260, but more finely ground; 2" dk gry flt brec.	762s 265 .02 Ag .4 Pb .1 Zn
267½	6" med gry flt brec. w/ lt tan sand on core sfc.; fn. gr.; 3" coarse gr. med dk gry dol. maybe	760 265-267½ nil all .8 Zn
268	change to Readville type lith.; 15" lt gry dol. breccia. Large frag. lt. gry dol. in flt gouge groundmass	763s 267 .02 Ag 1.2 Pb .2 Zn
	4" lt gry v. cr. gr. dol.; 2" brec. & gouge; 1" cr. gr. dol.; 1" brec. gouge.	733 267-268 .02 Ag nil Pb .2 Zn
	N/R	
280		734 267½-292 .04 Ag nil Pb .5 Zn
		787s 283
286		
287½		774s 283-289
		786s 289-293
292		735 292-297 .04 Ag nil Pb 1.7 Zn
293		785s 292-297
297		775s 297-307
		730 297-307

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
FEDERAL CENTER, DENVER, COLORADO 80225

Office of Minerals Exploration

June 29, 1967

OFFICIAL COPY
O. M. E.
RECEIVED
JUN 30 1967

INITIALS	CODE
gla	120 M
JH	110
RM	120 S

Memorandum

To: Chief, OME

From: Field Officer, Region III

Subject: OME-6415 (Silver)
Richmond Hill Exploration, Inc.
Lenado Area
Pitkin County, Colorado
Contract 2236

Transmitted herewith are a letter and substantiating documents pertinent to the May voucher on the above-stated contract.

J. William Hasler

J. William Hasler,
Field Officer, Region III
Office of Minerals Exploration

enclosures to B. 7 of May voucher

Office of Minerals Exploration

June 29, 1967

Mr. John P. Kellogg, General Manager
Richmond Hill Exploration Company
P. O. Box 939
Aspen, Colorado 81611

Subject: OME-6415 (Silver)
Richmond Hill Exploration, Inc.
Lenado Area
Pitkin County, Colorado
Contract 2236

Dear John:

Thank you for your letter of June 27 and its enclosures on the above-mentioned subject. A copy of your letter and the substantiating documents pertinent to the May vouchers have been sent to the Washington office.

Sincerely yours,

J. William Hasler

J. William Hasler,
Field Officer, Region III
Office of Minerals Exploration

cc: Chief, OME
Hasler chron
OME chron
2236

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
FEDERAL CENTER, DENVER, COLORADO 80225
Office of Minerals Exploration

June 19, 1967

OFFICIAL COPY
O. M. E.
RECEIVED
JUN 23 1967

INITIALS	CODE
gla	120 M
[illegible]	110
RMA	120 S

Memorandum

To: Chief, OME

From: Field Officer, Region III

Subject: OME-6415 (Silver)
Richmond Hill Exploration Company, Inc.
Lenado Area
Contract 2236

Transmitted herewith are the original and two copies of MME Form 60 (Operator's Monthly Voucher), MME Form 61 (Operator's Progress Report) and Narrative vouchers with supporting documents for the month of May, 1967.

I certify that the information is complete and accurate to the best of my knowledge and belief, and recommend that payment be made.

J. William Hasler

J. William Hasler,
Field Officer, Region III
Office of Minerals Exploration

MME FORM 60
SEPT. 1939

OFFICIAL COPY
O. M. E.
RECEIVED
JUL 19 1967
INITIALS | CODE

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

Docket No. OME-6415
Contract No. 14-23-090-2236
Contract Amount $ 78,800.00
Gov't. Participation % 75 $59,100.00
Mineral(s) Silver

OPERATOR'S MONTHLY VOUCHER

For Month of May, 1967

Operator's Name Richmond Hill Exploration Company, Inc.

Address P. O. Box 999, Aspen, Colorado 81611

COST CATEGORIES	FOR OPERATOR'S USE: MONTHLY TOTAL	PREVIOUSLY REPORTED	TOTALS TO DATE	FOR GOVERNMENT APPROVAL ONLY: MONTHLY TOTAL	PREVIOUSLY REPORTED	TOTALS TO DATE
Fixed Unit Costs and						
(1) Independent Contracts:						
Bulldozing	112.00	0	112.00			
Drifting						
Crosscutting						
Drilling Dia, Core	416.05	0	416.05			
cementing time	112.50	0	112.50			
Mobilization 50%	175.00	0	175.00			
(2) Personal Services:						
Supervision & Technical	910.00 ✓	0	910.00	-0-		
Outside Consultants						
Labor	117.50 ✓	0	117.50			
(3) Operating Mat'l. & Supplies:						
Timber						
Explosives						
Pipe						
Rail						
cement additives	22.50	0	22.50			
core boxes	4.00 ✓	0	4.00	-0-		
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehab. & Repairs:						
Buildings, Fixtures, etc.						
Operating Equipment						
(6) New Buildings, Fixtures, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Analytical Work						
Payroll Taxes	266.00 ✓	0	266.00	-0-		
Employee's Liability Ins.						
vehicle mileage	144.00	0	144.00			
accounting, office	40.00 ✓	0	40.00	-0-		
TOTALS	$2,319.55	0	$2,319.55	1,099.55		

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

Date June 14, 1967 * Payee Richmond Hill Exploration Co. Inc.

Per Henry A. Stein Title V. Pres.

* 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.

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

(INSTRUCTIONS ON REVERSE)

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

$ 824.66 14X0804

Signature JDM
(Authorized Certifying Officer)

Date JUL 17 1967 Vou. No. 80254

Certification by Government Representative:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating an exploration project in accordance with the terms of Contract No. 2236

Signature J. William Fisher Title Field Officer Date 6/19/67

Approved by OME Executive Officer or Alternate:

Signature J. William Fisher Title Field Officer Date 6/19/67

OPERATOR'S MONTHLY REPORT

The Operator, under an Office of Minerals Exploration contract, is required to report monthly to the Government. The report consists of three parts.

FIRST, the Operator's Monthly Voucher on MME Form 60 listing the project costs incurred and claimed by the Operator is the voucher basis for payment of the Government's share of the cost.

SECOND, the Operator's Progress Report on MME Form 61 is a statistical report of the units and cost of of work performed under the contract.

THIRD, the Operator's Narrative Report is a concise description of the work performed, results accomplished, and any unusual situations encountered, illustrated and supported by engineering-geological maps or sketches, drill hole logs, assay reports, etc., as pertinent.

The Operator submits the original and four copies of each of the three sections of this report to the OME regional Executive Officer at the end of each month during the life of the contract.

PREPARATION OF OPERATOR'S MONTHLY VOUCHER, MME FORM 60

After all applicable spaces are filled in, the Operator or his agent must sign the certification in the lower left corner. Categories (2) through (7) apply to "Actual Cost" contracts only.

Under "Fixed Unit Costs" and Category (1) report, (a) the total fixed unit costs of work performed under contract provisions for contribution by the Government on a basis of "fixed unit costs"; and (b) the claimed costs of work performed on a unit-price basis by independent contractors.

Under Category (2) include the claimed costs of all payrolled and invoiced supervisory, technical, and labor personnel, except the costs for services applicable to Categories (5) and (6).

Under Category (3) include the claimed costs of all project materials and supplies other than those used for work under Categories (5) and (6).

Under Category (4) report claimed rentals on equipment belonging to a third party, claimed payments or obligations for payments on the Operator's purchase of equipment, and claimed depreciation for the use of Operator-owned equipment.

Under Categories (5) and (6) include all claimed costs of labor, supervision, technical services, operating materials and supplies, and all other items used in (5) the initial rehabilitation and repairs of existing buildings, fixtures, installations (exclusive of mine workings), and operating equipment; and (6) the installation or construction of new buildings, fixtures, and fixed improvements (exclusive of mine workings). Do not report these costs under Categories (2), (3), (4), and (7).

Under Category (7) include all miscellaneous claimed costs such as repairs (other than initial) and maintenance of equipment, sampling and analysis, travel, communication, accounting, office expenses, and the Operator's share of payroll taxes and insurance.

Except for amounts claimed under "fixed unit costs" provisions of the contract, all costs claimed in this voucher must be supported by documentary evidence consisting of: (a) certified copies or transcripts of payrolls which list each employee, wage rate, period of employment, gross earnings, itemized deductions, and net earnings; (b) original or certified copies of invoices, statements of accounts, or purchase orders which indicate items of materials or services, quantities, unit prices, total charges, and payment terms; and (c) certified memoranda of the Operator for such items as depreciation of Operator-owned equipment, unemployment taxes, and employee's liability insurance. The certification may be stated thus, "Certified True Copy (or Transcript)", followed by the signature of the Operator or his agent. One copy of each document should accompany the original of this voucher.

The requirement for submitting documentary evidence of claimed costs may be waived by the OME regional Executive Officer if he determines that it is impracticable for an Operator to submit this material. In any case of waiver of this requirement an "on-site" audit by an OME auditor is mandatory prior to payment of the final Operator's Monthly Voucher.

MME FORM 61
SEPT. 1959

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

OPERATOR'S PROGRESS REPORT For Month of May, 1967 Docket No. OME-6415 2236

Operator's Name Richmond Hill Exploration Company, Inc. Contract No. 14-23-090-

OPERATION	UNITS	FOR OPERATOR'S USE: UNITS THIS MONTH	UNITS TO DATE	COSTS TO DATE	FOR GOVERNMENT USE: APPROVED UNITS THIS MONTH	APPROVED UNITS TO DATE	APPROVED COSTS TO DATE
Drifting							
Crosscutting							
Raising							
~~Shafts~~ Labor - Monthly Salary				117.50	47 Hrs	47 Hrs	117.50
~~Winzes~~ Bulldozing	hrs.	7	7	* 567.00	7	7	567.00
Other Underground							
Drilling, Core-Diamond	feet	53	53	* 871.05	53	53	871.05
core boxes ~~Stations~~	no.	4	4	4.00	4	4	4.00
Drilling, Non-core-Diamond							
Rotary							
Churn							
Percussion							
Miscellaneous cementing	hrs	9	9	112.50	9	9	112.50
additives	sacks	3	3	22.50	3	3	22.50
Roads and Trails							
Stripping							
Trenching							
Test Pitting							
~~Other Surface Work~~ vehicular mileage	miles	1,200	1,200	144.00	1200	1200	144.00
Initial Rehabilitation and Repairs Mobilization - 50%				175.00			175.00
Rehabilitation of Mine Workings Accounting, Office				40.00			40.00
New Buildings, Fixtures, etc. F.I.C.A. payroll taxes				266.00			266.00
Operating Equipment Purchases							
Analytical Work							
TOTAL TO DATE (per MME Form 60)				$2,319.55			$2,319.55

REMARKS * Supervisor's salary divided equally between drilling and bulldozing.
Bulldozing: actual charge $16/hr; contract allowance is $18, or $14 total unpaid.
Labor: Category (2) "Personal Services". Actual time 47 hours @ $2.50.
Drilling: 0-53', all overburden, @ $7.85

(Continue on back)

REMARKS
Disallow core boxes $4.00
Invoice dated prior to contract
Disallow FICA $218.71
(Actual cost = 47.29)
RMA
7/5/67

(Continue on back)

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 14, 1967 Operator Richmond Hill Exploration Company, Inc.

Per Henry L. Stein Title V. Pres.

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

I certify that the information above is complete and accurate to the best of my knowledge and belief.

Signature J. William Hasler

Title Field Office Government Representative

Date June 12, 1967

REMARKS (Cont.)

REMARKS (Cont.)

INSTRUCTIONS FOR PREPARING OPERATOR'S PROGRESS REPORT, MME FORM 61

This report is the second of the three parts of the Operator's Monthly Report. Submit the original and four copies.

The cost for each operation should be the total of all claimed costs attributable to that type of work with two exceptions, namely—operating equipment purchased and analytical work which are stated separately. For example, drifting costs should be the total of all costs chargeable to drifting including supervision, technical services, timbering (if any), etc. Similarly, drilling costs should include the cost of cementing, reaming, core boxes, etc. This procedure of distribution holds whether the contract was written on an actual cost or a unit cost basis, or some combination of the two. Distribute the cost of such general items as supervision, equipment rented, etc. according to relative footages or on some other conventional basis. The item "Initial Rehabilitation and Repairs" covers all rehabilitation and/or repairs other than the rehabilitation of mine workings.

The item titled "Drilling, Non-core Percussion" includes all drilling performed with wagon, jack-hammer, stoper and mounted drills. The several items labelled "Other" are provided to take care of particular exploration operations not specified on this form.

UNITED STATES
DEPARTMENT OF THE INTERIOR
U. S. Geological Survey
Branch of Budget and Finance
Washington, D. C. 20242

ADMINISTRATIVE SUSPENSION STATEMENT

Name and Address of Payee: [illegible] Co. Inc.
[illegible]
[illegible], Colorado [illegible]

Voucher Claim $:	Differences (Explained Below)	Amount Approved
$2,219.54	$1,220.00	$1,[illegible]
		$ [illegible].66
Voucher No.	Payee's Invoice No.	Period
[illegible]	[illegible]	[illegible]

EXPLANATION

The following items are disallowed - no supporting documents furnished:

Supervision and Technical Services	$910.00	
Payroll taxes	265.00	
Accounting and office expense	41.00	$1,216.00

Reclaim of above amount may be made when supported by the proper invoices.

Disallowed 4 core boxes @ $1.00 - Invoice dated prior to Contract. 4.00

Total Disallowance $1,220.00

Any reclaim for items deducted must be supported by the original of this statement and submitted to the office shown above.

J. [illegible] Collister
Branch of Budget and Finance

June [illegible], [illegible]

Mr. J. William [illegible], Field Officer
Office of Minerals Exploration
U. S. Department of the Interior
Building 25, Room [illegible], Federal Center
Denver, Colorado 80[illegible]

Re: OME-6415 (Silver)
Lease [illegible]
Contract [illegible]

Dear Bill:

In accordance with the request made to you by [illegible] on, and called to our office this morning, [illegible] our May voucher, dated June 14, we are attaching the following:

1. By dint of much thumbing around in old files I located our invoice from the [illegible] Container Corporation, in Phoenix, where we bought our core boxes. This shows our payment of .6754 [illegible] box; if this invoice is not legible [illegible] we include the price list from this company, showing the same price for [illegible]. On our voucher we claimed the full $1.00 price for 4 boxes; it should have been $2.70.

2. Our accountant has made up a payroll [illegible] for May, substantiating our claim for supervision and labor.

3. As near as I can tell from various [illegible], etc. our Jeep miles [illegible] was about [illegible],809 on May 1, and 31,009 on June 1, which [illegible] for the month, or 1,800 miles less than [illegible] allows. This was all used on the [illegible] work.

[illegible],

John [illegible]
General [illegible]

cc: W. B. Rubey
H. L. Stein

REESE H. HENRY, JR.
CERTIFIED PUBLIC ACCOUNTANT

POST OFFICE BOX 1166
TELEPHONE 303-925-3771
ASPEN, COLORADO 81611

MAY 1967 PAYROLL

Richmond Hill Exploration Company Inc.

Rheco-Lenado Inc.

Date	Job discription	Gross	FICA	Fed. W/H	State W/H	Net
5/12/67	Supervisor	$ 500.00	22.00	68.20	12.41	397.39
5/31/67	Labor-surveyor	[illegible]	3.29			71.71
5/31/67	Labor-surveyor-contract	[illegible]				42.50
5/31/67	Supervisor [illegible]	[illegible]	22.00	[illegible]	12.41	397.39

Reese H. Henry Jr.

Allow
Supervisor [illegible]
assistant [illegible]
FICA [illegible]

Disallow
FICA [illegible]
[illegible]
[illegible]

REESE H. HENRY, JR.
CERTIFIED PUBLIC ACCOUNTANT

POST OFFICE BOX 1166
TELEPHONE 303-925-3771
ASPEN, COLORADO 81611

MAY 1967 PAYROLL

Richmond Hill Exploration Company Inc.

Rheoo-Lenado Inc.

Date	Job discription	Gross	FICA	Fed. W/H	State W/H	Net
5/12/67	Supervisor	$ 500.00	22.00	68.20	12.41	397.39
5/31/67	Labor-surveyor	75.00	3.29			71.71
5/31/67	Labor-surveyor-contract	42.50				42.50
5/31/67	Supervisor (illegible)	500.00	22.00	[illegible]	12.41	397.39
			47.29	136.40	24.81	

Reese H. Henry Jr.

Allow
Supervisor 910.00
assistant [illegible]
FICA [illegible]

Disallow
FICA $266.00
- 47.29
$ 218.71

KIVA CONTAINER CORPORATION
2935 GRAND AVENUE
PHOENIX, ARIZONA 85017

OCTOBER 15, 1964

PHONE NO. 272-6511

CORRUGATED CORE BOXES (NEW STYLE) 275# TEST

WATER RESISTANT – DIE CUT CONTAINERS WITH SINGLE UNIT INSERT

SIZES MAY BE COMBINED FOR QUANTITY PRICE

1. THE BOXES ARE OF TELESCOPE DESIGN WITH 1 SLIT SCORED INSERT FOR HOLDING THE CORES. ONE END AND ONE SIDE OF BOTH THE TOP AND THE BOTTOM ARE PRINTED AS FOLLOWS

   PROJECT _____ HOLE NO. _____

   FROM _____ TO _____ BOX NO. _____

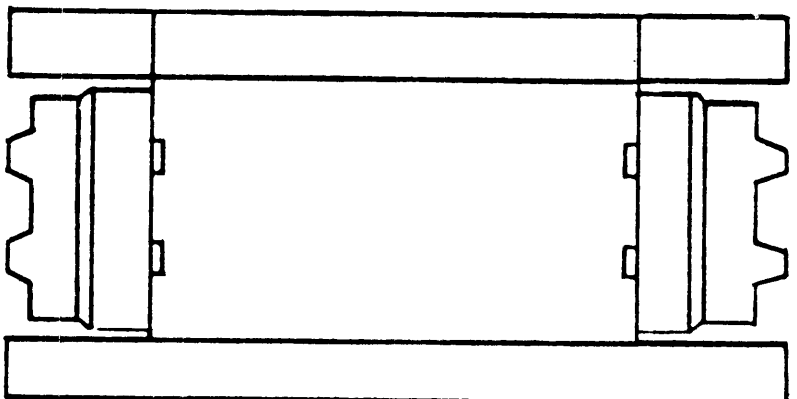
2. ALL PRICES AND SIZES ARE SUBJECT TO CHANGE OR DELETION WITHOUT NOTICE.
3. EACH BOX HOLDS 10 FEET OF CORE.
4. APPLY FOR PRICES WHEN SPECIAL SIZES, DESIGNS, OR SPECIAL TYPES OF CORRUGATED CONTAINERS ARE REQUIRED--ALL TYPES OF MATERIAL AND SIZES ARE AVAILABLE.
5. THESE BOXES AND INSERTS ARE MADE FROM CORRUGATED, WAXED, WATER-RESISTANT FIBREBOARD AND ARE SHIPPED FLAT – THEY CAN BE ASSEMBLED EASILY WITHOUT TAPING, STITCHING OR GLUING, THUS KEEPING STORAGE SPACE TO A MINIMUM.

PRICED PER 1000

CORE SIZE	LESS THAN 500	500	1000	2500
AX	$ 470.00	$ 420.00	$ 370.00	$ 365.00
BX	575.00	525.00	475.00	450.00
NX	675.00	625.00	575.00	550.00
NC	730.00	680.00	630.00	600.00
* EX	480.00	430.00	380.00	355.00

* EX HAS 12 FEET OF CORE PER CARTON

New Style



KIVA CONTAINER CORPORATION

2935 GRAND AVENUE | Tel. No. 272-6511 Area Code 602 | PHOENIX, ARIZONA 85017

MANUFACTURERS AND DESIGNERS OF CARTONS TO YOUR SPECIFICATIONS

VARIOUS STOCK SIZE CARTONS AVAILABLE

CUST NO. #

DATE 196

SOLD TO:

SHIPPED TO:

ORDER NO.

CUSTOMER'S ORDER NUMBER	F. O. B.	TERMS	☐ CHARGE ☐ C.O.D.

QUANTITY	ITEMS AND DESCRIPTION	PRICE PER M	AMOUNT

All accounts are due and payable by the 10th of the month following date of purchase. A 1½ per month interest will be charged on all past due accounts. Should the account be placed in the hands of an attorney for collection, the customer agrees to pay all court costs and a reasonable attorney's fee.

SUB TOTAL WITHOUT TAX

RECEIVED ABOVE IN GOOD CONDITION

BY

FOR RESALE ☐ ADD SALES TAX ☐ % ON

PAPER PATENTED BY U.S.A. CO. No. 04290 CARDS INCORPORATED

PLEASE PAY FROM THIS INVOICE

STATEMENT SENT ONLY ON REQUEST

INVOICE TOTAL →

CUSTOMER'S INVOICE

June [illegible], 1[illegible]

[illegible]r. [illegible] [illegible]
[illegible]ffice of [illegible]
[illegible] [illegible] the Interior
[illegible]uilding [illegible]
[illegible]enver, [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]e hope to see you [illegible] Friday.

[illegible]

NARRATIVE REPORT OF OPERATIONS FOR MONTH OF MAY, 1967

Richmond Hill Exploration Company, Inc., Operator

Lenado Area, Pitkin County, Colorado

Docket No. OME-6415

Contract No. 14-23-090-2236

OME Region
RECEIVED
JUN 15 1967
Denver, Colorado

On May 1 the operator's office was opened, accounting and insurance set up, bank account established, and supervisor's salary begun. Vehicle acquisition followed, and work started shortly thereafter surveying the project area for drill hole locations, access roads and ties to claim corners. On May 15 a meeting was held in the O.M.E. Denver office, attended by Messrs Hasler, Field Officer, Bryant and McCarthy of the Geological Survey, and Kellogg, representing the Operator. On May 22 bulldozing was done on sites and access roads for the first four drill holes. On May 23 Boyles Bros moved in their equipment and set up on DDH 4 ("Lenado Project" map attached to captioned contract) on bearing and dip angle as set by Operator. viz.?

By month's end only 53 feet of "N" size wireline hole had been drilled, working one shift a day. The first 10 feet were drilled with a rock bit, the remainder cored. A total of 20 feet of casing was installed and three sacks of cement used. This was all, or nearly all overburden, primarily granite boulders; penetration was difficult, and lost circulation of water required much cementing. Core recovery was surprisingly good for overburden, and the cores have been boxed for possible future interest. A storage shed for materials such as cores was acquired in Lenado by the Operator.

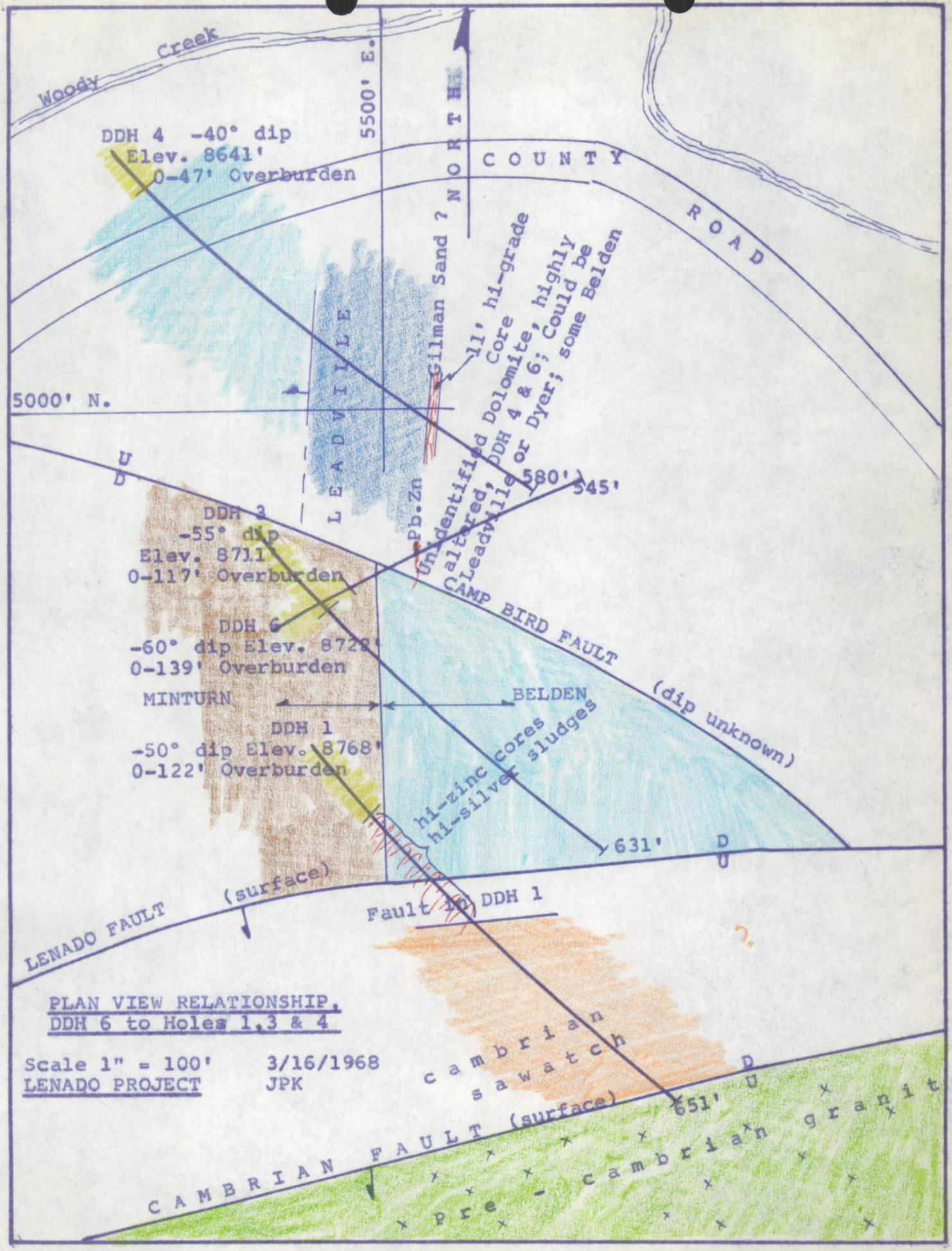
Near the bottom of the 53 foot depth at month's end some ground-up fragments of a dark lime, with dolomite, containing stringers of white calcite, appeared in the core. This is typical of basal Belden, which was expected at bedrock, but due to some granite and quartzite inclusions (which could have been caused by contamination) and the paucity of any core beyond 47 feet, the exact location of bedrock cannot be determined with any confidence.

A sample of blue-black clay just beyond 47 feet was submitted to an assayer for silver-lead determinations but it proved virtually barren of both metals.

Attached are the MME forms 60, Operator's Monthly Voucher, and 61, Operator's Progress Report. No map or drill log are attached at this time, but both Progress Map and Drill Log have been prepared for the future when more data are available.

John P. Kellogg

John P. Kellogg,
General Manager

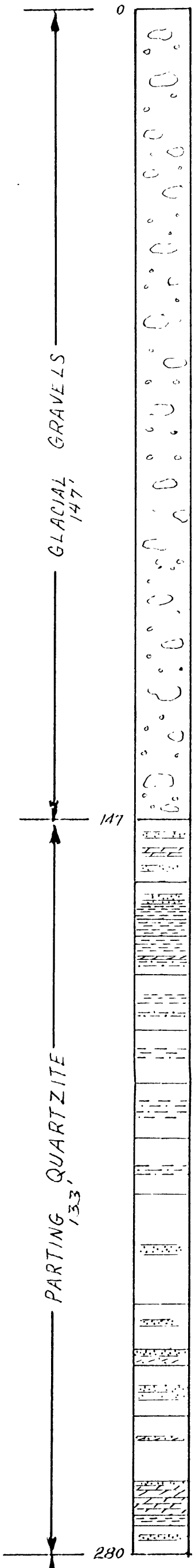

Woody Creek
5500' E.
NORTH
COUNTY ROAD
DDH 4 -40° dip
Elev. 8641'
0-47' Overburden
LEADVILLE
Gilman Sand ?
11' hi-grade Core
Unidentified Dolomite, highly altered, DDH 4 & 6; Could be Leadville or Dyer; some Belden
5000' N.
Pb.Zn
580'
545'
U
D
DDH 3
-55° dip
Elev. 8711'
0-117' Overburden
CAMP BIRD FAULT (dip unknown)
DDH 6
-60° dip Elev. 8722'
0-139' Overburden
MINTURN
BELDEN
DDH 1
-50° dip Elev. 8768'
0-122' Overburden
hi-zinc cores
hi-silver sludges
631'
D
U
LENADO FAULT (surface)
Fault to DDH 1
?
PLAN VIEW RELATIONSHIP,
DDH 6 to Holes 1,3 & 4
Scale 1" = 100'
LENADO PROJECT
3/16/1968
JPK
cambrian
sawatch
651'
D
U
CAMBRIAN FAULT (surface)
pre - cambrian granite

LENADO PROJECT DIAMOND DRILL HOLE NUMBER 2

DRILL CORE LOG SCALE 1" = 20'

JULY & AUG 1967

HOLE DIPS AT 45° TO HORIZONTAL



LITHOLOGY

Glacial gravels. Boulders up to 4' in diameter of mostly pre-Cambrian granite with red and pink Orthoclase phenocrysts. Other rock types include Paleozoic dolomite, quartzite, Sawatch white quartzite, and Parting tan altered quartzite. Good core recovery.

147-158 18' ptg qtzite, tan-pink, highly brecciated, frac. filled w/ limonite, pitted, very poorly seen qtz grains (only on drill spc), sharpened, no gr on fract spc, some blk & red specks (residual sulfides?)
2" gry dol w/ wht calcite stringers, app dip 80°; maybe AL in glacial overburden
2" dolom qtzite, tan pink, gry; well def gr. 2" gry wht qtzite. 6" gry pink dol qtzite as above, except med gr.; 12" same, except fine grained

158-165 14" pink & gry qtzite; 14" pink & gry on gr qtzite. pink color from hematite stn(?) on fract planes. 2" brecciated qtzite, probably in a microfault

165-168 24" PINK CLAYSTONE, slty somewhat, but st. scratches

168-175 24" " " same as above
36" " " " " " ; 45° V poor app dips. 8" dolomitic tan silty claystone. 10" pink siltst.

175-185 6" silty pink clayst, soft & alt. in small part
3" tan sltst, dolomitic, 18" pink dolom sltst, clayey & fn gr.

185-195 24" altered, tan & pink sltst., with limonite & kaolin, brecciated

195-205 48" gry & pink sltst., dolomitic, some limon. alteration on fractures

205-215 18" same as 195-205

215-235 18' brecciated parting gouge; 18" med gr pink gry qtzite. w/ hematite on fract

235-243 10' gouge & brecciated ptg. 12" gry wht qtzite, pitted on drilled spc

243-247 18" wht qtzite same as 235-243; 6" cr gr altered, red, dolom qtzite, pebbles of wht qtzite - reworked by drill

247-255 6" gry pink wht qtzite; 8" red alt. qtzite (on fractures) wht on unfract.

255-267 4" pink gry dolom qtzite, soft - 50% dol. 45° app. dip; 5' gry qtzite stn red on fract.

267-270 4" gry qtzite 14' yellow-green tan dol., fn gr

270-273 24" yel. grn tan dol w/ thin stringers gry cherty qtzite

273-275 18" bluish lt gry claystone w/ calcite stringers, pyr. & maybe a diff. metallic mineral

275-280 20" lt. gry qtzite; cr gr., pink gry in part 35° apparent dip.

ASSAYS

No samples were sent in for analysis, as no mineralization nor fine gr fault gouge was observed

LENA ? PROJECT DIAM'D DRILL HOLE # 4
DRILL CORE LOG SCALE 1" = 20'
May, June, & July 1967

HOLE DRILLED AT 40° DIP FROM HORIZONTAL

DRILL HOLE COORDINATES: N 5213 35, E 5288.49

Formations (left margin):
- GLACIAL GRAVELS 47' (0–47)
- BELDEN FORMATION 245' (47–292)
- LEADVILLE DOLOMITE 164' (292–456)
- GILMAN SAND MEMBER OF THE LEADVILLE DOL. 15' (441–456)
- DYER DOLOMITE MEMBER OF CHAFFEE FORMATION 124' (456–580)
- PARTING QUARTZITE ?

Depth at end of June 276'
July 13 1967 580

LITHOLOGY

0 – 47' Qs glacial overburden. NX cores good recovery. Cores consist of fragments of Pε boulders

43' base of NX casing; no shoe no cement

47 base of overburden
top of dark blue gray dolomite (Belden shale).

N/R

60 – 24" small cores & reground frag. of tan dol & tan gry dol.; some fn. gr. pyr. cores show much brecciation & recem.

70

76 base of BX casing

N/R

92 – 40" small reground frag. & broken cores. dk gry dol Same fn. gr. pyr. core fract. healed w/ wht dol. darker gry blk than 60-70' interval. Finely veined. Dk gry on fresh cuts (fract.). med. gry on powdered drill cuts. Cone sampler recovered 8" blk. sandy, clayey mat. Pyr. x'ls., lt blu gry (Ca sfo)

99 N/R

110 – 30" frag. dol. same as 92-99

117 – 18" frag. dol. same as 92-99

125 – 12" " " " " one 2" core shows fault breccia w/ rounded frag. thoroughly recem. w/ blk gougy dol. powder. Maybe some organic mat. Small pyr x'ls.

135 – 40" dol. frag. same as 92-99 except 10% gry blk to carbon blk clayey dol.; v. fn. gr. prob. clayey material. prob. org. mat. present

147 – 4" rounded dol. pebbles; rnd'd by drill, prob. slump.
149 – 6" med. gry. dol. frag & partial cores. 1½" shiny blk cly gouge w/ slicks 2" lt gry fract. dolomitic sltst. One frag. w/ much pyr.; not mineralized.
153 – 8" dol. frag. & gouge; both rnd'd & crushed pyr.; same post flt. pyr.
155 – 2" med. gry & dragstone

6" med. gry. dol. peb. same as 153-155 & 92-99
12" fault gouge same as 153-155
5" gry clyst. " "

171 – 1½" lt. tan gry dol. w/ many parallel fract. filled w/ coarser gr. dol.
171½ N/R
174 – 6" slty clyst. w/ slump type bedding @ 45° apparent dip. lt & med. gry.; irreg. streaks crudely parallel. Some lt. gry brecc. frag. (sedim. brec.?)
176 – 12" clyst., sltst. & gouge w/ calcite veinlets. No lamin. in lower clyst.
non-lamin. clyst.; some clayey dol., some dol., some highly brecc. clyst.

186 – med gry. dol. frag.
188 – 6" dol. frags.
191 – 6" med. dk gry cly gouge v. soft. w/ finely dissem. pyr.
32" fault gouge & lts. frags.
14" limestone same as the 30" unit. badly brecciated – almost to flt. gouge 4" med gry cly gouge
197 – 30" med. gry limestone; finely veined w/ calcite. Open vugs lined w/ calcite x'ls.; sev. diff. sets of fract. sev. large pyr. lumps & stringers.
203 – 10" rnd'd dol. frag., dol. brecc. & med. gry cly flt gouge.
205 – 3" rnd'd gry dol. peb. 2" lt gry cly gouge 14" med gry cly gouge w/ dol. frag.

208 – base of AX casing (?)
212 – 4" dol frag. 8" flt brec., & lt gry dol. to wht dol; groundmass med. gry dol. brec. frag & cly gouge.
5" dol. frag.; 6" dol. brec.
217 – 2" dol. sandstone(?). maybe flt mat.
10" dol. brec.; apparent dip 45° on core. 1" dol. frag. med.
223 – 5" med. dk grey v. fn. gr. dol. shale. 3" dol. breccia, much pyrite
228 – 18" cly gouge w/ dol. frag., much pyr.
2" med. gry dol.
30" cly flt. breccia w/ dol. frag.

238

243 – 6" dk. gry. cly. gouge w/ dol. frag.
8" dk. gry cly gouge
3" med gry ?dol? ?? dol. w/ thin stringers & small vugs
248 – 4" med. gry clay dolomitic flt. breccia
250 – 4" med. gry cherty dol. (slump?) & dol. flt. breccia
255 – med. gry dol. flt breccia - gouge; pyrite abundant.
258 – 10" dol. breccia; gry dol. enclosed in med gry groundmass. much pyr., finely brecciated
260 – 4" dol breccia, ", shale, fn. gr., dk gry.
265 – 18" dol breccia same as 258-260 but more finely ground; 2" dk gry flt brec.
267½ – 6" med gry flt brec. w/ lt tan sand on core sfc.; fn. gr.; 3" coarse gr. med dk gry dol.; maybe
268 – changed to Leadville type lith.; 15" lt gry dol. breccia. Large frag. lt. gry dol. in flt gouge groundmass
4" lt gry. v. cr. gr. dol.; 3" brec. & gouge; 1" cr. gr. dol.; 1" brec. gouge.
N/R

280

286 – 15" lt gry flt brec. in dk gry ground mass lt to med gry dol. frag. 3% Py
287½ – 4" dk gry flt brec. & cly gouge **292' TOP OF LEADVILLE FM.**
292 – 12" dk gry. 1-2 mm x'ls. lmed gry; lt gry on fresh fract. Interst. fract. dolomite
293 – 12" dk gry cly gouge w/ some Ml frag.
297 – 8" dol. same as above; 18" Ml frag. same as above
Ml dol. lt gry coarsly x'line, some x'ls 4 mm diam some frag.; recem. brec. Small dark glassy x'ls common. (maybe mineral). Much Pyr. (maybe flourspar
8" dol frag. & 2" med gry cly gouge & dol. frag.

312 – 1' fn. gr. med gry dol. 1' dol frag in cly gouge; 1' silty med gry dol. & to Pb
1" fn. gr. gry dol frag.
316 – 2' flt gouge w/ frag. sh. Ml. & cly
321 – 6" Brec. Ml & cly gouge, 18" highly fract Ml (almost gouge)
323 – 6" cly med gry dol. 18" cr gr. lt. to med gry dol.
326 – 18" gouge w/ Ml frag.
328 – 18" gouge w/ Ml frag.
331 – 1' vuggy Ml large dol. x'ls line cavities; coarsly x'line; frag.; 1' med gr med gry dol.
333 – 3" blk cly gouge
336 – 6" med gry; cr. gr. dol.
341 – 6" gouge; 2" fn. gr. brec. dol. 3" brn gry brec. dol. prob. Ml.; 2" cr. gr. brec. dol.
2" gouge
346 – 8" fn gr. brec. dol.
351 – 8" same as 341-346
355 – lt. to med gry fn. to med gr. dol. some brec.
359 – " " " " " "
360 – same as above
" "
364 –
same as above but not brecciated
370 – " " " " " ; some limonite stn. on fract.
373 – " " " "
376 –
5" med gry med grn dol. w/ limonite orange brn on fract.; 18" sndy dol. med gry on fract. lim. stn on fract. prob. hydroth. alt., blk alt. metallic mineral specks; friable & decomp. small leached areas along fract.
384 – 3' sndy dol.; blk min. is crusty w/ rnd'd lumps — prob. Mn, Pb, or psilomelene; sd gr. seem to be carbonate (dol.) or much decomp. Qtz. (not hard)
390 – 9" sandy dol. as above

400 – 5" med gry dol., not as much lim., but more Mn

408 –
5" same as above
416 – 6" dk gry cherty dol. 1" nodule chert med gry; med gr.
419 – 4" fn. med lt gry dol. } prob. slump
425 – 2" same as above
20"
430 – 20" tan brn sdy dol.; finely frac. hydroth. alt. to limonite & dol. sd.
436
441 – same as above
1" brn sndy dol.; 40% apparent dip; 60% galena; 4" med gry dol frag.; could be slump
452 – N/R
4"
456 – 4" med gry sndy dol.; prob slump.; one piece lt gry dol; fract. w/ Zn (?)
465 – N/R
469 – 2" lt gry dol. prob. slump; ½" bff. ss. Gilman (?) no qtz. med gr.
473
477 – 6" lt gry slty dol. frag.
6" same as above
484 – N/R
486
491 – 2" lt. dk gry dol. prob. slump
496 – 2" fn gr. lt gry dol.
501 – 3" slty dol.; tan gry
506 – 3" same as above
3" med. gry clayey dol. frag.; 20% alt. lim gr.
512
N/R
524 – 5" Rounded frag. same as 506-512
526 – N/R
530 – Rnd dol. frag. same as above
534
N/R
540
N/R
550 – 1" med gry chert.
551 – 1" brn gry alt. sndy dol. frag.
554 – 6" brec. sandy alt. dol.; med. gry; alt. to carb.; sd. along fract.
558 – 1" same as above
560
6" same as above; much lim. w/ decomp. carb. gr.
570
N/R
580

ASSAYS
s = sludge

Sample	Interval	Ag	Pb	Zn
731	47→48'	.02 Ag	nil Pb	
732	92' sampled by cone sampler. Hi count by D. Gagliardo.	.02 Ag	nil Pb	
750	143-151	.04 Ag	.6 Pb	.4 Zn
747	149-155	.09 Ag	.8 Pb	1.0 Zn
741s	158-168	.02 Ag	nil Pb	1.1 Zn
746	155-156	.10 Ag	1.2 Pb	1.0 Zn
749s	160-171	.04 Ag	nil "	0.2 Zn
751	171-199	.04 Ag	.4 Pb	.4 Zn
752	191-199	nil Ag	nil Pb	
753	203-205	nil Ag	.4 Pb	
754	208-217	.04 Ag	nil Pb	.2 Zn
755	217-238	.06 Ag	nil	.1 Zn
756	238-258	.04 Ag	nil Pb	.1 Zn
742s	248	.02 Ag	nil Pb	.1 Zn
743s	250	.02 Ag	.1 Pb	.1 Zn
744s	255	nil	all	
761s	260	.02 Ag	nil Pb	.1 Zn
762s	265	.02 Ag	.4 Pb	.1 Zn
760	265-267½	nil	all	.3 Zn
763s	267	.02 Ag	1.2 Pb	.2 Zn
733	267-268	.02 Ag	nil Pb	.2 Zn
734	267½-292	.04 Ag	nil Pb	.5 Zn
787s	283	nil	nil	.1
774s	283-289	.02	nil	.3
786s	289-293	.02	nil	.2
735	292-297	.04 Ag	nil Pb	1.1 Zn
785s	292-297	nil	nil	.8
775s	297-307	.02	nil	.2
736	297-307	.02	nil	Tr
779s	307-312	.02	nil	.5
789s	312-316	.02	nil	.1
737	312-316	.02	nil	1.0
773s	321	.02	nil	.3
738	316-323	.04	nil	.9
791s	321-326	.02	nil	.7
740	324-326	.02	nil	.8
792	326-331	.02	nil	Tr
739	326-333	.02	"	.1
783s	331-333	.02	"	.2
781	336-341	.02	nil	nil
776s	341-346	.02	"	.3
770s	346-351	.02	"	.5
782s	351-355	.04	"	.6
780s	355-360	.04	"	.5
784s	360-364	.02	"	.7
788s	364-370	.04	"	.2
771s	365-370	.02	"	.3
770s	370-375	.04	"	.7
766	376-384	.04	"	.3
767	384-390	.04	"	.6
778s	389	.02	"	.5
730s	384-390R	.04	"	.5
768	390-400	.02	"	.8
771s	390-400R	.03	"	.1
832s	400-408	.04	.2	.6
769	400-416	.04	nil	.8
772s	408-416	nil	nil	.3
823s	416-419	.04	nil	.5
826s	419-429	.04	.5	.5
824s	419-424R	nil	nil	.5
728s	430-436	.04	nil	.4
765	430-441R	.06	"	1.3
795s	441	.02	"	.7
764	441-452	10.05 (.16 cadmium)	28.5	18.2
796s	452-454	nil	nil	.8
794s	454-456	.02	"	.7
797s	456-458	.02	.6	.8
793s	458-460	.04	.4	.3
798s	460-462	.02	nil	Tr
799s	462-464	.02	"	nil
720s	464-467	.06	.2	.2
727s	467-469	.10	1.0	.5
721	470-472	.08	.25	.3
822s	472-474	.06	.5	.5
724s	474-476	.10	.3	.7
723s	476-478	.08	.3	.5
725s	478-480	.12	nil	.5
801s	480-481	.08	"	.5
729s	481-483	.08	"	.5
726s	483-485	.10	.15	.6
804s	484-486	.09	.3	.5
717s	486-491	.08	.5	.4
726s	491-496	.06	nil	.1
827s	496-501	.06	nil	.6
821s	501-506	.08	nil	.6
805s	510-512	.06	nil	.5
718s	512-516	.02	nil	.5
828s	516-520	.05	.3	.5
829s	520-524	.02	.3	.5
830s	524-526			
719s	526-530	.08	.3	.5
831s	530-534	.02	1.0	.1
832s	534-536	.02	nil	.3
833s	566-541	.02	nil	.8
834s	541-545	nil	3.1	.9
835s	546-551	.02	nil	.8
803	558-570	.06	nil	1.3
836s	568-570	.02	.4	.8

LEI DO PROJECT ~ DIAMON DRILL HOLE NUMBER 1 OFFSET

DRILL CORE LOG — SCALE 1" = 20'

AUG & SEPT. 1967

E DIPS 50°

0'

QUATERNARY LANDSLIDE

LEACHED DOLOMITE (LEADVILLE ?)

LENADO FAULT ZONE (?)

Sept 1 303' →

LITHOLOGY

QUATERNARY LANDSLIDE SEE DESCRIPTION OF D.D.H. 1

% of Recovery

% of Recovery	Interval	Description
0%	122 - 147	N/R
60%	147-153	2' altered gry wht buff dolomite. Bleached & leached. Brecciated many tan fract. fillings represent 15% of rock & maybe 100% Wurtzite
13	153-157	6" lt gry dol.; small cavities filled w/ leached calcite & some sulfides.
30	157-162	18" highly altered dol.; many fract.; lt. gry; much tan zinc; many thin veinlets w/ unaltered fn. gr. galena.
22	162-167	14" s.a abv.; qtz x'ls & galena.
100	167-170	3'6" s.a abv.; some cherty zones; some blk flt. gouge; some 20% galena
100	170-172	2' lt gry to tan, highly altered dol. Much Zn; much flt bree & gouge; galena frag. in gouge
100	172-178	6' same as 170-172
100	178-180	20' same as 170-172; finely brecciated
	180-182	2' same as 170-172
100	182-187	5' " " " " ; except bottom 1" is buff yell flt. breccia — fine gr.
66	187-190	2' " " " " ; very soft
6	190-193	2" " " " "
33	193-195	1' " " " " ; very soft
100	195-202	7' gry. wht., v. fn gr sltst.? (maybe alt. dol. or even clyst). Finely veined w/ galena: Several clayey, gougy zones. Some pyrite.
33	202-205	1' same as 195-202
50	205-207	1' " " " " lt. gry, med gr. some lge flakes gyp.; some fnly dissem. galena (.5) sheared &
	207-212	5' " " " " except 40% is less clayey & not sheared; many small veins of galena
100		and pyrite (1% of total). Small streaks of lim. yellow & ochre & streaks of black.
	212-216	4' bottom of 207-212 & top of this interval is transitional into yell. buff ochre; very soft; 30% of this unit is massive & non-mineralized to sulf. but is highly leached. 40% of the interval is flt breccia & gouge w/ thin streaks sulf. & pods of calcite (prob. 2nd min). Some gry wht. breccia
100	216-217	1' same as 212-212
100	217-222	5' " " " " but less altered & shows tan lt gry alt. dol. w/ brn coatings along v. thin fract metal. sulf. in many fract., v thin specks & filing of Mn. 20% calcite (estim. from fig 3)
100	222-224	2' some as 212-216; v. fn. gr.; lt gry less altered dol. w/ lim. & Mn stn on veins; some gry dol. stains
90	224-227	" " " " ; v fn. gr. (30")
20	227-232	" " 222-224. (1')
40	232-237	4" gran. & qtzite slump. 18" same as 212-216; lt gry w/ scattered sulf. grains.
100	237-240	3' highly altered & sheared dol. w/ much sulf. (5% of total). Yell ochre to tan gry; much Mn.
100	240-242	2' same as 237-240.
100	242-247	5' " " "
60	247-252	Same as 237-240, except more altered; & one 5" piece gossany flt breccia, badly leached. Much Mn & limonite.
60	252-259	highly alt. fn. grn. lt. gry. dol. w/ 18" ground up dol.; sdy?
100	259-261	same as 252-259.
100	261-263	" " " " . More limonite staining
100	263-265	" " " " Scattered sulfides.
100	265-267	lt. gry., fn. grn dol.; massive; scattered sulfides.
60	267-272	same as 265-267
8	272-277	" " " " ; 1" ground up flt breccia.
70	277-282	flt. breccia, gry dol. & some qtzite. Much lim.; many scattered sulf.
0	282-287	N/R
30	287-292	highly alt. $\mathcal{C}_s$; greatly leached, much lim., many void struct. 5" red & yell. ochre clay, some dk streaks w/ small scattered sulfides.
2	292-297	1" $\mathcal{C}_s$ frag. & highly alt. flt. gouge w/ dk gry streaks
23	297-299	5" qtzite frag. w/ dk gry metallic sulf. — not galena — maybe manganite.
75	299-301	18" highly altered qtzite & qtzite gouge
100	301-302	12" qtzite sly gouge & pink mud & sulfide v'ls.
80	302-303	6" qtzite frag. & tan gouge.
70	303-305.5	qtzite frag. highly alt. & v. soft; purp., red, tan.
100	305.5-312	pink gry wht $\mathcal{C}_s$; faint reddish streaks of bedding; felds gr. only, slightly leached. Arkosic. upper 36" sheared w/ ochre cly & mn & sulf.
50	312-315	slightly alt. $\mathcal{C}_s$ w/ small mud seams
100	317-322	lt. gry. cr gr qtzite; felds. kaolinized; brn red on fract.; some ochre; very feldspathic. Some sulfides (?) Mauve red in fract.; some
60	322-327	same as 317-322; some steel gry sulf. (?); mauve red in fract.
100	327-330	same as 317-322.
65	330-333	" " " "
20	333-341	" " " " Relatively unaltered; some sulfides on fractures.

ASSAYS

CORES Interval	oz. Ag	% Pb	% Zn	CUTTINGS Interval	oz. Ag	% Pb	% Zn
121-122	.02	0	6.9	117-122	0.1	0	.10
				122-127	21.8	3.2	1.35
				127-132	34.3	4.7	1.85
				135-137	13.8	2.1	3.25
				137-139	10.7	1.9	2.00
				139-141	2.7	0.5	.40
				141-142	8.0	1.3	1.20
				142-144	0.2	.15	1.70
147-149	0	0.4	1.2	144-146	17.1	2.80	1.60
149-151	0	0	1.9	146-148	2.0	.55	2.85
				148-150	0	.10	1.80
				150-152	0.1	.20	1.50
152-157	0	0	0.5	152-154	15.0	2.75	2.75
				154-156	0.5	.40	.40
				156-158	9.7	1.60	1.20
157-162	0	0	0.3	158-160	3.8	.80	1.10
				160-162	3.2	.95	1.70
162-165	0.8	0.9	3.65	162-167	13.9	4.10	2.25
165-167	0.6	1.2	3.45				
167-168	0.3	0.4	2.75	167-172	37.3	9.4	4.65
168-169	0.1	0.6	1.6				
169-170	0	TR	1.2				
170-172	0.1	TR	1.0				
172-174	0	0.1	1.0				
174-177	0.2	TR	1.0				
177-178	0.2	1.15	1.3				
178-180	0	0.1	1.3				
180-181	0	.35	1.6				
181-182	0.4	0.5	1.6				
182-183	0	0.2	1.0				
183-185	0.7	0.2	1.7				
185-186	0.3	0.2	0.8				
186-187	0.4	0.9	1.2				
187-190	0.3	3.25	1.2	192-195	6.1	2.80	2.85
190-193	0.2	.35	6.1				
193-195	0.1	.25	1.2				
195-198.5	0	TR	0.9	195-200			
198.5-205	0.4	1.1	5.9	200-205	47.4	7.20	5.10
205-207	0.1	0.4	4.85				
207-209.5	0.1	0.6	6.2	205-210			
209.5-211.5	0	.25	1.7				
211.5-212	0.1	TR	0.7				
212-214	0	0.4	0.6	210-212	0.4	.60	2.00
214-216	0.1	0.2	1.7				
216-217.5	0	.40	2.50	212-217			
217.5-219	0.2	.10	1.40				
219-220.5	0	TR	1.00				
220.5-222	0.1	.10	1.30	217-222	13.9	2.2	3.35
222-224	0	0.1	0.7				
224-226	0	0	0.3				
226-232	0	TR	0.2				
232-237.5	0	0	0.1				
237.5-239	0	TR	2.0				
239-240	0	TR	1.5				
240-243	0	TR	1.1				
243-245	0	TR	2.3				
245-247	0	.95	6.2				
247-249.5	0	0	18.95				
249.5-252.5	0	0	2.55				
252.5-255	0.1	0	0.3				
255-259	0	TR	0.4				
259-261	0.2	TR	0.4				
261-263	0	TR	0.2				
263-265	0	TR	0.2				
265-267	0	TR	0.3				
267-272	0	TR	0.3				
272-274.5	0	0	0.2				
274.5-277	0	TR	0.1				
277-280	0.1	TR	0.2				
280-282	0	0	0.2				
287-292	0.3	0.4	0.2				
292-297	0.1	.55	0.7				
297-299	0	0.2	0.2				
299-301	0	TR	0.4				
301-302	0.3	.55	0.3				
302-305	0	0.3	0.3				
305-307	0.2	0	0.1				
317-317.5							
317.5-322							
322-327							
327-330							
330-333							

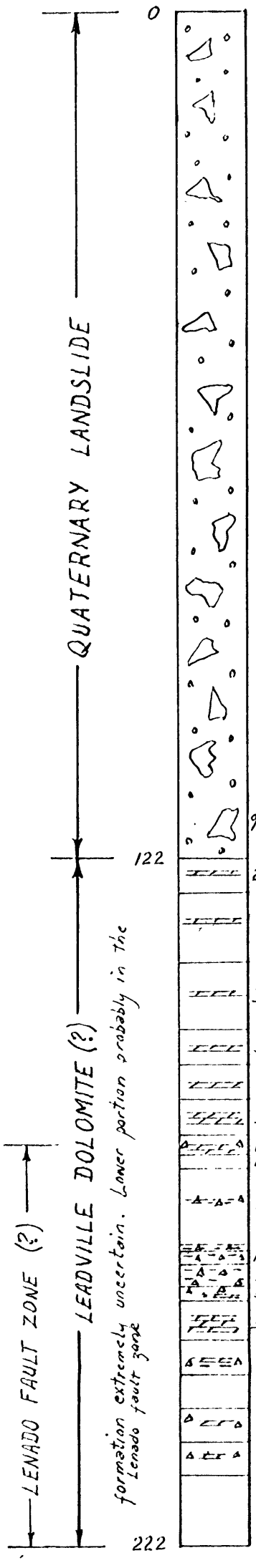
LENADO PROJECT DIAMOND DRILL HOLE NUMBER 1

HOLE DIPS 50° TO HORIZONTAL

DRILL CORE LOG

SCALE 1" = 20'

AUGUST 1967



% Recovery	LITHOLOGY	ASSAYS			
	0-122' Landslide breccia. Large fragments of pre-Cambrian granite with pink orthoclase. Fragments in road cut are very angular. Some (up to 20%) $\mathcal{E}_s$ fragments in lower portion. good recovery				
20%	122-127' 1' lt gry dolomite. Yellow buff and tan altered patches. Very fine grained, clayey. lt gry to gry wht, much fractured. Manganese stain. Brn & blk altered mineral grains	122-127	.05 oz Ag	0% Pb	16% Zn
10	127-137 1' same as above	127-137	0	0	11.2
3	137-147 4" same as above	137-147	.02	.6	11.5
5	147-152 3" same as above	147-152	.12	0	78
20	152-157 1' same as above	152-157	.04	0	1.1
30	157-162 16" same as above	157-162	.02	.15	6.7
15	162-165 5" brecciated lt gry dol same as above	162-165	2.86	.7	37
15	165-167 4" fault breccia in gry dol. 1/4" very oxidized galena. Residual cores of galena and much leaching. 4" frag. (prob. from flt. zone)	165-167	3.66	1.1	13.9
3	167-178 5" fault gouge. 2" frag. prob. reworked slump	167-178	.15	.10	1.0
40	178-179 5" fault gouge clay. Med gry & lt gry dol. frag.; Some manganese	177-178	.22	0	.5
100	179-181 16" cly gouge & dol. frag. Same as above. lt lavender gry cly gouge; 5" brn tan dol. w/ small lav. gry cly gouge.	178-179	.08	0	1.8
28	181-184 2" tan & gry dol. same as above; 8" wht gry fn gr. sp. 6" lt. gry dol. frag (prob. slump) med. blu gry dol. Med. grn size. Intensely fract. & alt. fg. 22°; tan dol along fract.; 7" flt brec & cly gouge.	179-180	7.30	1.10	1.2
50	184-186 5" dol. frag. same as above 8" lt. gry wht fn. gr. dol.	180-180.5	.16	.01	1.8
55	186-192 6" wht gry dol. same as above; 3" buff gry dol. 10" buff to v. albite; clayey; sl. (hydroth. alte) 5" dol. breccia; 18" buff lt gry dol. v. fn. gr. same as above; app. dip 60°	180.5-181	.66	.6	1.1
20	192-197 1' buff gry dol. s.a. abv. 5" dol. breccia gouge; yel. buff.	181-182	.10	0	1.2
0	197-202 N/R	182-185	0	0	.5
6	202-207 5" buff gry dol. frag.; prob. a flt zone	185-186	.10	0	2.0
6	207-212 5" same as above	186-192	.46	.10	.6
0	212-222 N/R	192-197	.16	.10	1.1
		202-207	.10	.10	.5
		207-212	.06	.15	.6

hole abandoned at 222' full of steel casing, bits, drill rod fishes

Average Recovery 15.27%

LENADO PROJECT ~ DIAMOND DRILL HOLE NUMBER 1 OFFSET

DRILL CORE LOG — SCALE 1" = 20'

AUG & SEPT. 1967

HOLE DIPS 50°

0'

Formation intervals (left margin): QUATERNARY LANDSLIDE; LEACHED DOLOMITE (LEADVILLE ?); LENADO FAULT ZONE (?); SAWATCH QUARTZITE; Sept 1 303'

LITHOLOGY

QUATERNARY LANDSLIDE SEE DESCRIPTION OF D.D.H. 1

% of Recovery	Interval	Description
0%	122-147	N/R
80%	147-153	2' altered gry wht. Buff dolomite. Bleached & leached. Brecciated. many tan fract. fillings represent 15% of rock & maybe 100% Wurtzite
13	153-157	6" lt gry dol.; small cavities filled w/ leached calcite & some sulfides.
30	157-162	18" highly altered dol.; many fract.; lt. gry; much tan zinc; many thin veinlets w/ unaltered fn. gr. galena.
22	162-167	14" s.a. abv.; qtz x'ls & galena.
100	167-170	3'6" s.a. abv.; some cherty zones; some blk flt. gouge; some 20% galena zones
100	170-172	2' lt gry to tan, highly altered dol. Much Zn; much flt brec. & gouge; galena frag. in gouge
100	172-178	6' same as 170-172
100	178-180	2' same as 170-172; finely brecciated
	180-182	2' same as 170-172
100	182-187	5' " " " " ; except bottom 1" is buff yell. flt. breccia — fine gr.
66	187-190	2' " " " " ; very soft
6	190-193	2" " " " "
33	193-195	1' " " " " ; very soft
100	195-202	7' gry wht. v. fn gr. sltst. ? (maybe alt. dol. or even clyst). Finely veined w/ galena. Several clayey, gougy zones. Some pyrite. Aplite (?).
33	202-205	1' same as 195-202.
50	205-207	1' " " " " lt. gry, med gr, some lge flakes gyp.; some fn'ly dissem. galena (.3) sheared &
100	207-212	5' " " " " except 40% is less clayey & not sheared, many small veins of galena and pyrite (1% of total). Small streaks of lim. Yellow & ochre & streaked out black.
100	212-216	4' bottom of 207-212 & top of this interval is transitional into yell. buff ochre, very soft; 30% of this unit is massive & non-mineralized to sulf. but is highly leached. 40% of the interval is flt breccia & gouge w/ thin streaks sulf. & pods of calcite (prob. 2nd'ry). Some gry wht. breccia
100	216-217	1' same as 212-216.
100	217-222	5' " " " " but less altered & shows tan lt. gry alt. dol. w/ brn. coatings along v. thin fract. metal sulf. in many fract., v. thin speckles & filing of Mn. 20% calcite (estim. from (13))
100	222-224	2' same as 212-216; v. fn. gr.; lt gry less altered dol. w/ lim. & Mn stn on veins; some gry clay seams
90	224-227	" " " " ; v. fn. gr. (30')
20	227-232	" " 222-224. (2')
40	232-237	4' gran. & qtzite slump. 18" same as 212-216; lt. gry w/ scattered sulf. grains.
100	237-240	3' highly altered & sheared dol. w/ much sulf. (5% of total). Yell. ochre to tan gry; much Mn.
100	240-242	2' same as 237-240.
100	242-247	5' " " "
60	247-252	same as 237-240, except more altered, & one 5" piece gossany flt breccia, badly leached. Much Mn & limonite.
60	252-259	highly alt. fn. grn. lt. gry dol. w/ 18" ground up dol.; sdy?
100	259-261	same as 252-257
100	261-263	" " " " . More limonite staining
100	263-265	" " " " scattered sulfides.
100	265-267	lt grey; fn. grn dol.; massive; scattered sulfides.
60	267-272	same as 265-267
8	272-277	" " " " ; 1" ground up flt. breccia.
70	277-282	flt. breccia, gry dol. & some qtzite. Much lim.; many scattered sulf.
0	282-287	N/R
30	287-292	highly alt. Cs, greatly leached, much lim., many void struct. 5" red & yell. ochre clay, some dk streaks w/ small, scattered sulfides.
2	292-297	1" Cs frag. & highly alt. flt gouge w/ dk gry streaks
43	297-299	5" qtzite frag. w/ dk gry metallic sulf. — not galena — maybe manganite.
75	299-301	18" highly altered qtzite & qtzite gouge w/ sulfide x'ls.
40	301-303	12" qtzite sly gouge & pink mud & sulfide
70	303-305.5	qtzite frags, v. soft, gouge, red, tan.
100	305.5-312	pink gry wht. qtzite; reddish streaks of bedding; felds. gr. only slightly leached. Arkosic. upper 30" sheared w/ ochre cly & mn & sulf.
50	312-315	slightly alt. Cs w/ small mud seams
100	317-322	lt. gry. cr. gr. qtzite; felds. kaolinized; brn red on fract.; some ochre; very feldspathic. Some sulfides (?) Mauve red in fract.; some
60	322-327	same as 317-322; some steel gry sulf. (?); mauve red in fract.
100	327-330	same as 317-322
65	330-333	" " " "
20	333-341	" " " " Relatively unaltered; some sulpides on fractures.
7	341-348	same as 317-322 unaltered.
40	348-352	v. glassy qtzite. Relatively unaltered Orthoclase felds.; Pc felds. is white
33	352-358	same as 348-352.
40	358-363	" " " " ; but comparatively altered & stained mauve & leached.
60	363-368	" " 358-363; some sulfides; some Mn.
100	368-369	" " 363-368
50	369-373	" " " "
75	373-375	" " " " but less altered.
100	375-378	" " " " " " "
100	378-383	" " " " ; 2 zones more altered.
10	383-388	lt. gry qtzite; cr. gr., brecciated
8	388-392	same as 383-388
100	392-397	" " " " but altered to reddish in 2 zones; red contains someth
100	397-398	same as 392-397
60	398-403	" " " " ; some red & blk stains on fractures; Feldsp. voids some leaching.
50	403-407	same as 398-403.
83	407-409	lt. gry. qtzite; canary yellow stains on fract. & voids; some red staining.
100	409-411	12" altered qtzite as above; 12" slightly altered qtzite.
100	411-413	lt. gry qtzite; some alteration.
100	413-413	same as 411-413; except purple brown fracture coatings
63	413-415	same as 413-413, but stained also ochre yellow to light yellow.
22	415-418	qtzite fragments.
2	418-426	qtzite fragments
100	426-428	lavender gry qtzite; stained canary to ochre yellow
55	428-434	3' fault gouge; gry wht, ochre, lavender, purple-red "barber pole". Some Mn & some sulf. 35° appar. dip on flt plane. 4" qtzite frag.
100	434-436	3" (?) hard, med. gry. qtzite.
33	436-445	4" lt. gry streaked qtzite, stained & altered to lt. ochre & gry wht. 12" red purp. to lt. ochre gouge. 14" med lt. gry flt. gouge. Much Pyr. & dk gry sulf. 4" tan & red flt. gouge. Sltst. noddles (which look like aplite)
100	445-446	highly altered qtzite stained mauve; fn. gr. gry blk sulfides. Some ochre in voids
50	446-452	24" same as 445-446; much dk gry slightly altered sulfide; some ochre. 12" lt. gry. fn. gr. qtzite, pinkish cast, slightly altered
100	452-456	18" pink red altered qtzite, dk gry, v. fn. gr. Nodules of sulfides altering to a shell of ochre. 30" fault gouge, lt yell. to wht. gry; highly altered.
100	456-458	12" fault gouge. Lemon yellow to pink mauve. 12" fault breccia w/ gry qtzite & stained brown red. Some yellow.
100	458-464	lt gry. qtzite breccia, 30% open filling. Filled w/ porous earthy black to dark brown-red materials. Some dark tan, some mauve, some lt. red fault gouge
100	464-466	same as 458-464.
	466-475	missing notes
90	475-478	31" gry qtzite, stn. brn red & greatly brecciated. All open spaces filled w/ porous aphanitic red brn. material w/ much Fe & Mn.
95	478-484	20" qtzite breccia w/ veins of yellow altered material. Some red veins. Gry leached qtzite, ochre yellow 6" lt. yell. stn on lt gry silty dol. or dol. qtzite. Some gypsum. 20" med gry clayey silty material same as above. 24" lt. blu green gry silty dol. Some gypsum
100	484-488	12" lt. gry fn. grg sltst or alt. dol. (?) bluish green cast; fract. & leached; some thin gry veins of py, chalcopy & a fine black crystal.
85	488-494	18" same as above. 12" fault breccia of gry dol. or silty dol. w/ streaked out dk gry; some pyr. & sulf.; some veinlets of yellow & red. Breccia composit. 12" qtzite & dol. 12" flt breccia; tan w/ frag. of gry qtzite Cs; small speckles of sulf (?) 12" lt gry qtzite — brecciated; some replacement by pyrite & gry sulfides. Altered to tan on fract.
0	494-496	3" slump & reworked pebbles.
70	496-499	tan fault gouge & breccia. Some highly alt. qtzite w/ much wurtzite (prob. 40% of Rock
60	499-502	same as 496-499
60	502-508	12" lt gry to lt yellow wht silty dolomitic qtzite; v. soft & decomp.
100	508-512	12" tan, clayey, v. alt. material like in 502-508. Blk Mn gr. in part. 36" lt. to med gry qtzite — v. hard, v. cr. gr. to med gr. mostly glassy qtz. Some Biotite streaks (?) Some Epidote coloration; some lim. stn on fract.
100	512-514	qtzite, same as 508-512
80	514-517	glassy, lt. gry. qtzite, w/ fract. stn. yell. & red brn; some sulf.
42	517-520	same as 514-517; more brecciated.
100	520-522	" " " " but no red or yell on fract.; some sulf.
50	522-524	" " 520-522
12	524-528	" " " "
20	528-533	lt. gry qtzite w/ lt. ochre stn & red brn stn. on fract.
50	533-536	5" same as 528-533; 10" med dk gry flt. gouge w/ much pyr & sulf.; 4" lt. gry quartzite.
47	536-539	lt gry qtzite w/ dk gry sulf. on fract.; some red & yell. stn.; Biotite (?)
40	539-544	lt gry fn. gr. qtzite; somewhat brecciated. Open spaces partly filled w/ ochre material. 40° apparent dips
40	544-549	12" med. gry to buff fault gouge; 20° app. dips. 12" lt. gry qtzite brecc. w/ much buff ochre.
40	549-554	lt. greenish gry to blu gry sltst (?) No miner. other than alt. & clayey.
0	554-557	mislabled core causes this interval to be missing.
50	557-559	lt. bluish gry sltst. (?) fn. gr. clayey; altered.
40	559-564	12" lt. gry sheared, clayey dol. (?) gougy in part; buff to lt. gry; some Zn; 12" flt gouge ochre yellow; some gyp. 25° app. dip; some alt. dol.; lower part stn. reddish.
60	564-569	18" highly alt. qtzite stn. purple-red & yell., orange, gry in part. 12" gry qtzite; stn. brn-red & fractured; some blk min. grains.
43	569-576	9" fract. qtzite, stn. red & yell. same as above. 60° app. dip on qtzite; 15° app. dip on faulting.
33	576-579	qtzite brec. stained purp-red & highly altered. Much purp.-blk min.
100	579-584	fault breccia of gry partly alt. qtzite in matrix of orange brn. red to purplish finely ground material.
100	584-589	same as 579-584 60° app. dip on fault.
20	589-594	less altered gry qtzite frag. w/ red & yell. fract. fillings.
60	594-600	same as 584-594. 15% WURTZITE (?) fracture fillings. Some gouge; brecciated
30	600-605	" " " " NO WURTZITE. CONSIDERABLE reddish fracture fillings; some reddish and yellow gouge zones; some dk gry amorphous black & yellow min.; ochre.
30	605-610	same as 600-605
100	610-612	extremely altered & sheared gougy quartzite; yellow ochre to red; no noticeable sulfides.
80	612-617	lt. gry. qtzite; stained lt. orange-red. Purple-red in some fractures.
40	617-622	same as 612-617
80	622-627	" " " "
	627-631	" " " "
100	631-635	" " " "
100	635-637	" " " "
90	631-651	" " " "

ASSAYS

CORES

Interval	oz. Ag	% Pb	% Zn	Notes
121-122	.02	0	6.9	
147-149	0	0.4	1.2	
149-157	0	0	1.9	
152-157	0	0	0.5	
157-162	0	0	0.3	
162-165	0.8	0.9	3.65	
165-167	0.6	1.2	3.45	
167-169	0.3	0.4	2.75	
168-169	0.1	0.6	7.6	
169-170	0	TR	1.3	
170-172	0.1	TR	1.0	
172-174	0	0.1	1.0	
174-177	0.2	TR	1.0	
177-178	0.2	1.5	1.3	
178-180	0	0.1	1.3	
180-181	0	.35	1.6	
181-182	0.4	0.5	1.6	
182-183	0	0.2	1.9	
183-185	0.7	0.2	1.7	
185-186	0.3	0.2	0.8	
186-187	0.1	0.9	1.2	
187-190	0.3	3.25	1.2	
190-193	0.2	.35	6.1	
193-195	0.1	.25	1.2	
195-198.5	0	TR	0.9	
198.5-205	0.4	1.1	5.9	
205-207	0.1	0.4	4.85	
207-209.5	0.1	0.6	6.2	
209.5-211.5	0	.25	1.7	
211.5-212	0.1	TR	0.7	
212-214	0.	0.4	0.6	
214-216	0.1	0.2	1.7	
216-217.5	0	.40	2.50	
217.5-219	0.2	.10	1.40	
219-220.5	0	TR	1.00	
220.5-222	0.1	.10	1.30	
222-224	0	0.1	0.7	
224-226	0	0	0.3	
226-232	0	TR	0.2	
232-237.5	0	0	0.1	
237.5-239	0	TR	2.0	
239-240	0	TR	1.5	
240-243	0	TR	1.1	
243-245	0	TR	2.3	
245-247	0	.95	6.2	
247-249.5	0	0	18.95	
249.5-252.5	0	0	2.55	
252.5-255	0.1	0	0.3	
255-259	0	TR	0.4	
259-261	0.2	TR	0.4	
261-263	0	TR	0.2	
263-265	0	TR	0.2	
265-267	0	TR	0.3	
267-272	0	TR	0.3	
272-274.5	0	0	0.2	
274.5-277	0	TR	0.1	
277-280	0.1	TR	0.2	
280-282	0	0	0.2	
287-292	0.3	0.4	0.2	
292-297	0.1	.55	0.7	
297-299	0	0.2	0.2	
299-301	0	TR	0.4	
301-302	0.3	.55	0.3	
302-305	0	0.3	0.3	
305-307	0.2	0	0.1	
317-319.5	.34		TR	
319.5-322	.52		TR	
322-327	.54		TR	
327-330	.56		.08	
330-333	.66		.10	
333-341	.24		.08	
341-352	.60		.12	
352-358	.96		TR	
358-365	.40		TR	
365-369	.48		.07	
369-375	.40		TR	
375-378	.56		TR	.005 Au
378-383	.50		.08	
383-392	1.00		TR	
392-397	.44		TR	
397-403	.90		TR	
403-409	.80		TR	.005 Au
409-412	.60		TR	
412-426	.50		TR	
426-428	.46		.08	.005 Au
428-433	0.1	0.20	TR	
433-436.5	0.9	.10	0	
436.5-445	.70	1.64	TR	
445-450	0.3	.35	0.4	
450-452	.30	.16	TR	
452-455	.46	TR	.07	
455-458	0.2	0	0.2	
458-461	0.1	.30	0.1	
461-464	0	.50	0.2	
464-467	0	.70	0.3	
467-469	.42	.30	.37	.003% Cd
469-471	0.2	.30	0.3	
471-475	.12	TR	.08	
475-478	0	0	0.1	
478-481	0.1	nil	nil	
481-484	0	.70	nil	
484-486	.20	TR	TR	
486-499				
499-508	.18	TR	TR	
508-509	0	nil	nil	
509-512	.46	.36	.06	
512-514	.32	TR	.06	

CUTTINGS

Interval	oz. Ag	% Pb	% Zn
117-122	0.1	0	.10
122-127	21.8	3.2	1.45
127-132	34.3	1.7	1.85
135-137	13.8	2.1	3.25
137-139	10.7	1.9	2.00
139-141	4.7	0.5	.40
141-142	8.0	1.3	1.20
142-144	9.4	.15	1.70
144-146	17.1	1.80	1.60
146-148	2.0	.55	2.85
148-150	0	.10	1.80
150-152	0.1	.20	1.50
152-154	15.0	2.75	2.75
154-156	0.5	.40	.40
156-158	9.7	1.60	1.20
158-160	3.8	.80	1.19
160-162	4.3	.95	1.70
162-167	13.9	4.10	2.25
167-172	37.9	9.4	4.65
192-195, 195-200	6.1	2.80	2.85
200-205, 205-210	47.4	7.20	5.10
210-212, 212-217	0.4	.60	2.00
217-222	13.9	2.2	3.35
232-237	.08		.55
237-242	.08		.67
242-247	.10		.60
450-458	2.90		.50
458-468	.20		.28
468-478	.16		.27
478-488	.22		.20
494-508	.06		.18
539-549	.12		.27

LENADO PROJECT – DIAMOND DRILL HOLE NUMBER 3

DRILL HOLE INITIAL DIP IS 45°
at 435' HOLE DIPS 55°

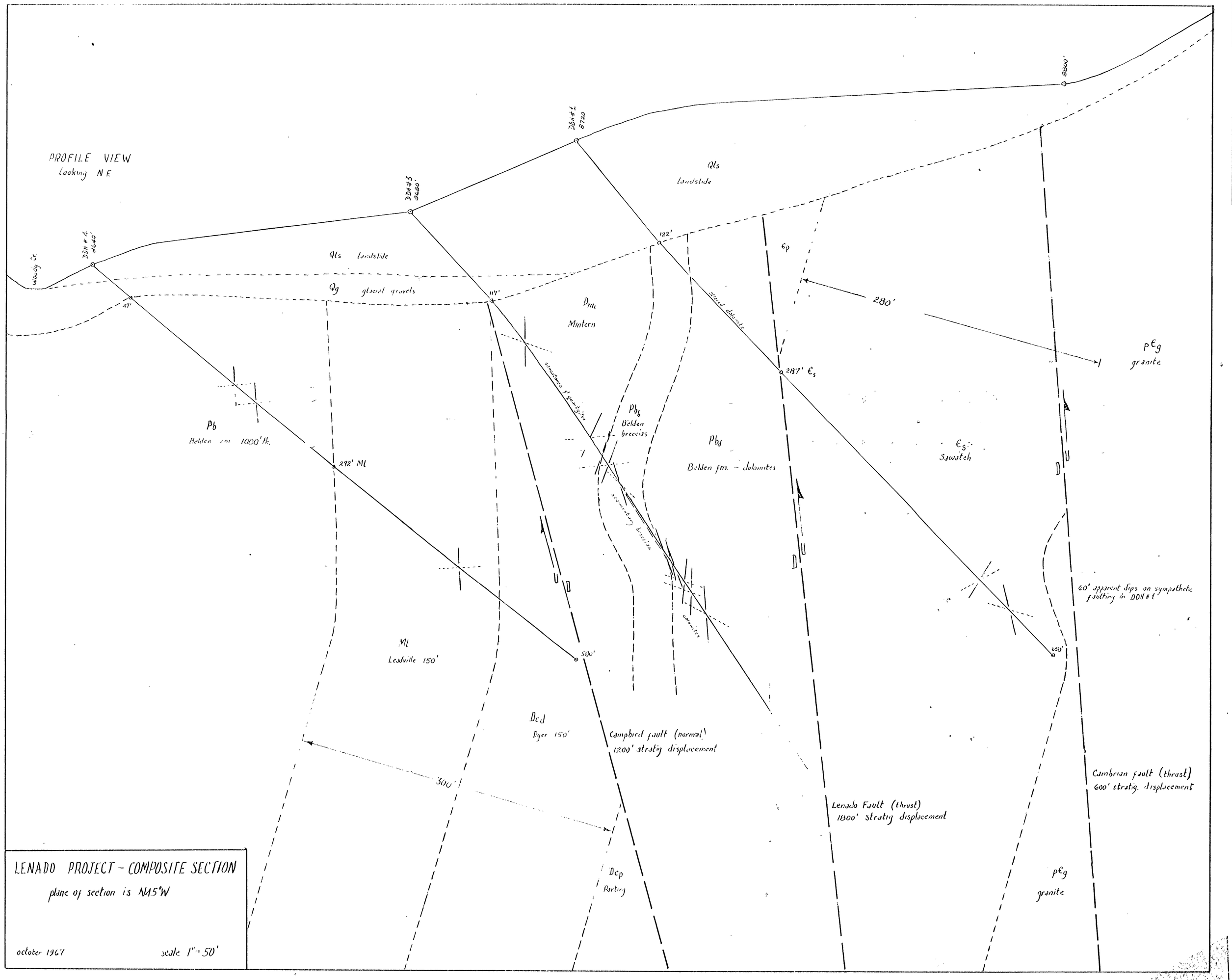
DRILL CORE LOG SCALE 1" = 20'

SEPT & OCT. 1967

Formation labels (left margin): 0–80' QUATERNARY LANDSLIDE; 80–117' QUATERNARY glacial gravels; 117–~290' MINTERN fm or upper BELDEN Quartzites & dolomitic sedimentary breccias; ~290–375' upper BELDEN fm sedimentary dolomitic breccias; 375–631' BELDEN fm dk gry dol. with minor sedimentary breccias

Depth	% Recovery	LITHOLOGY	Sample interval	Oz. Ag	% Zn
0'–80'		Quaternary landslide mostly p€ granite blocks			
80'–117'		Quaternary glacial gravels. One large block of Tertiary diorite which had to come from up canyon.			
117'–125	37	36" buff, altered ss (or original quartzite). Med. gr; 40% soft, leached quartz grains; 60% fn gr dolom gr(?) forming matrix. Very soft & crumbly. Some sericite (?)	117-125	0	0.4
125–129	0	N/R			
129–131	75	fault gouge & breccia of ground up dolomitic arkose ss. Common white blebs	129-131	.02	0.4
131–136	25	15" dk to med gry qtzite; glassy qtz. gr; Speckled with interstitial white altered Pc(?), felds., 60% of the rock is glassy dk gry Orthoclase(?) w/ very good cleavage sfc			
136–141	20	12" Same as 131-136			
141–143	15	4" " " "	141-143	.08	TR
143–146	0	N/R			
146–147	15	1½" altered soft gry qtzite pebbles.	146-147	.06	TR
147–149	100	12" lt gry alt, soft, leached qtzite, some Mn stn. 4" flt brecc & gouge @ top of core	147-149	0	TR
149–151	75	20" med gry ss. same as 131-136, except soft & altered; fract., gougy & brecciated in part	149-151	0	0.2
151–157	100	72" Sandy dolomites or dolom. ss.; gry to buff to med tan color. Many breccia & gougy zones. The med gr ss contains chips of lt. gry silty mudstone & buff claystone. Very distinctive shale chips			
157–158	100	12" same as 151-157			
158–161	100	same as 151-157, v. soft, v leached, v brecciated	158-161	0	0.3
161–165	100	16" tan flt. brecciat ss. w/ gry mdst. chips. 6" med to dk. gry, clayey, altered, gougy ss. (or original qtzite) w/ clayst. sedim. breccia. Maybe blk carb. material. 10" soft tan crumbly ss 4" harder ss. like 151-156 but alt. & tan	162.5-163	TR	TR
165–166	100	fault breccia & gouge, brn tan, lt gry w/ ss. frag (buff white)			
166–168.5	35	same as 165-166.	164-168.5	.02	TR
168.5–171	75	lt gry qtzite, altering to tan on fract; slightly arkosic; med gr, med. well rnd gr; kaolin between qtz gr; brn finely dissem min			
171–176	0	N/R			
176–181	70	36" lt gry to dk gry slty claystone. Mostly brecciated to v fn frag., dolom, some dk gry dolomite, v fn gr dol recem w/ tan med gr dolom; some lim stn; prob flt. breccia; not leached.	176-181	.05	0.2
181–183	0	N/R			
183–186	66	14" lt gry, alt, clayey dolomite, v fn. gr. to aphan; fract, Mn stn, brecc in part; 6" dolo breccia; 3" Leadville dol. med gr, dk gry, soln cavities, prob. from top of ml, very probably this is a piece of the sedim. breccia.	183-186	0	0.9
186–189	15	5" tan gry, alt, fn gr. clayey dolomite, highly fract. & leached			
189–192	25	lt gry v soft silty dol, badly leached, powdery			
192–201		N/R			
201–206	18	2" qtzite, badly leached, rnd'd frag (maybe slump) 8" dolom. sed. breccia, lt gry, fn gr dol recemented by tan, med gr dol; laminations in the matrix dol.			
206–211	10	same as 201-206 except v leached & altered			
211–216	0	N/R			
216–221	25	lt gry, v. clayey dol. breccia, probab in part tectonic; v powdery, extremely soft	216-221	.04	0
221–226.5	100	lt gry dol, sandy, v powdery, v soft, fn. to med gr x'ls, prob brecciated tho most traces obliterated. Last 6" tan buff alt qtzite w/ dol cement(?) in part, v. soft, leached, qtzite & dolomite breccia	221-226.5	.02	0.9
226.5–227	100	lt. gry qtzite, v leached & alt, much cly. brecciated in most part w/ some frag of dol			
227–231	65	same as above; some frag of dk gry chert. lower portion mostly buff to gry tan dol. breccia. Well rnd. well sort qtz gr. Some possibility they are carb gr. since they are so soft (leached)	226.5-231	0	0.9
231–237	5	same as 227-231			
237–241	75	6" wht gry qtzite, med gr, stn'd buff 24" yellow tan alt qtzite, leached, soft, brecciated in part, 2" gry. sltst & qtzite breccia, gry qtzite & soft buff gry sltst & tan clayst inter mixed. At least some is sed breccia 80 to 50% of unit may be tectonic breccia leached & alt. in several zones	237-241	.02	0.2
241–246	100				
246–250	40	same as 241-246; cherty qtzite, v hard			
250–251	90	gouge, sltst, clyst, small qtzite frag., qtzite breccia, much alt, v clayey, lt gry	250-256	0	TR
251–256	60	same as 250-251; dolomitic breccia w/ sandy matrix of extremely alt qtz(?) gr; gry buff to lt gry			
256–262	100	Breccia of lt & dk gry chert, lt gry ss, tan clyst, lt gry sltst; prob sed brec, some conglom portions; some med gr dol. same recem brec, some dk gry dol; 40% of the zone is dolomite.			
262–266	100	40" wht. gry qtzite w/ med gr dol cement in part, leached cavities. Sed. brec. in part; med gry chert seen developing from qtzite – speckled w/ wht felds(?) Well rnd'd glassy qtz gr in part. 16" dol breccia, med to tan gry dolom breccia same as 262-266; some frag of qtzite present, some dk brn introduced minerl. Some limonite stn	266-270	0	0
270–271	100	" " 262-270 (last ½) w med gry qtzite frag	270-272	0	0
271–277	100	36" breccia same as above. 12" sandy dol, brecciated, tan to gry tan. Excellent laminations. Bedding crumpled (slump type) indications of 0 to 30° dip. 12" dol breccia same as above. 12" fn. gr lt gry dolomitic sltst(?) brec(?)			
277–279	100	6' dolomitic breccia as 262-266 6" lt. to med gry qtzite, cherty 12" breccia as above	279-281	.03	TR
279–281	100	dol sed brec & some tectonic breccia clayey, leached, & powdery in part			
281–287	8	5" dol brec. w/ lam. dol frag in part			
287–291	70	12" lt gry qtzite, 3" dol brec, 10" tectonic breccia (dolomite) 3" olive gry dol brec, v alt 3" dk gry Pb type dol.; Ml frag (included in breccia probably) app dip 35° Graded bedding, finely laminated 5" dol breccia, lt. gry lam, wht gry buff, med gry, sub rnd'd frag. sed. breccia, mosaic textured	287-292	0	TR
291–296	8	12" dol brec (prob tectonic); 12" dol brec mosaic w/ frag. of orgl Dyer. lt gry to buff gry 18" dol. breccia (tect in part)			
296–299	75	5" sandy blue gry dol (looks like Ml) 6" med gry sltst interlamin w/ olive gry to blk clyst. exc grad bedding. Excellent Pb lithology in sed contact w/ overlying sed dol breccia! 35° app dips section is right side up. Undoubtedly Belden			
299–301	100	dk gry sed brec frag. of Ml other Pb dol incorp in matrix of v fn gr blk Pb dolomit. 3" Pb Sh & med gr. blk ss interbd in finely lamin Pb. Excellent 35° app dips 1" Pb blk sh w/ med gry. dol. frag. incorp along bedding planes. 2" dk brn sh. 5" brn sed breccia w/ blk sd lenses & olive gry & lt gry dol frag. 35° app dips 5" gry blk Pb sh. w/ thin sd lam & w/ dol chips. 5" dol breccia w/ exc lam. @ 35° & large Ml dol frag. incorpor. Some evid. of slump bedding.			
301–311	0	N/R			
311–316	25	6' same as 293-301 w/ various rock types but hydrotherm altered & leached in part			
316–322	100	Gry blk dol breccia w/ frag Dyer. Shows laminae & some Ml. Matrix is blu blk v fn gr dol. App dips 15° 20" as above except less matrix & larger particles. App dips of 70° to 90°. 28" dol. breccia, ground up in part maybe tectonic	318-322	.02	TR
322–331	40	40" lt gry fn gr dol, brecciated in part, finely fract 20° dips. Sed breccia in part. Lim in fract. some calcite(?) in fract			
331–336	65	40" same as above. Tectonic breccia in part			
336–341	60	same as above	336-341	0	0.1
341–351	50	48" same as above 90° dips. med gry laminae between lt gry breccia frag & finely lam. sed breccia, 12" tectonic breccia, ground up clayey, gougy lt gry dol., lim stn. in part (maybe a claystone zone?)	344-351	0	TR
351–356	40	24" lt gry to tan gry dol as above. Altered & brecciated in lower part			
356–360	75	12" gry blk clyst, gougey wht gry frag 24" lt to med gry v fn. gr dol (typical Ml), fractured (white stringers)			
360–361	100	12' dk gry clyst. w/ some ls frag.			
361–366	80	Limey, med gry clyst & dk gry clyst. 90° dips. All fract & brecciated			
366–375	45	18" dk gry to blk clyst. breccia. 10" lt gry clayey dol (once a limey clyst) 18" dk gry clyst. breccia. 12" lt to med. gry dol			
375–387	3	Rounded pebbles & slump. Med gr. dol., v fn. gr			
387–391	40	18" lt to med. gry. dol., v fn gr. 40° to 90° dips. slump bedding wht. calcite(?) veins. v fn laminae in part			
391–396	10	dol frag same as 387-391			
396–401	15	5" med to dk gry, fn gr dol looks somewhat like Ml			
401–403	40	14" v fn gr., med gry dol w/ slump structures. 70° dips			
403–406	25	8" same as above 75° to 90° dips			
406–421	5	6" same as above 90° dips			
421–423	25	6" dol frag same as above			
423–428	5	24" dk gry, v fn gr dol prob has carb mater, pitted 50° dips, v fn blk laminae, v. fn. wht veinlets; Pb t... (now a dolomite). Much finely disseminat'd Pyrite. Silicified to a large extent.			
428–431	70				
431–436	48	dk gry Pb dol. w/ much pyrite. lighter gry laminae 50° dips	431-436	TR	0.6
436–438	25	6" dk gry dol, broken core same as above, 45° dips. darker gry recryst. & ... dol (rest of rock is extremely fn gr dol)			
438–439	80	8" lt gry silty(?) dol. frag one veinlet of ...			
439–446	20	18" dk gry finely lam Pb dol impure w/ clay material 90° dips.			
446–451	40	24" dk gry clayey dol same as above.	446-448	TR	1.6
			448-451	TR	1.0
451–453	6	3" same as above but heavy w/ pyrite	451-453	TR	0.4 (0.6 % Pb)
453–456	70	24" lt gry flt breccia No gouge; lt. gry. qtzite; med gry dol.; silty.			
456–459	100	12" breccia same as 453-456, 12" lt gry finely lam. silty dol, 60° app dip leached & slightly altered			
459–467	45	48" lt gry silty dol v fn gr, fract but not finely brecciated 65° dips			
467–471	50	fract lt gry dol., Pb odd n same as above			
471–476	20	fract dol sed breccia; lt. gry, finely dissem. pyr; v. fn. dk laminae; v. fn gr			
476–481	20	same as 471-476			
481–484	100	21" lt gry dol breccia same as above; 12" lt gry flt. gouge (ground up dol)			
484–486	6	6" dol breccia frag. " " "			
486–491	70	36" lt gry fn gr. dol.; massive, tho somewhat fract.			
491–496	30	13" med gry to lt gry dol. similar to above, but more cr... & sandy textured May have some qtz. grains.			
496–501	85	6" fault brec... & gouge; lt gry w/ wht specks; 30" lt bluish gry. v. fn gr dol, mas... healed wht fractures			
501–511	8	18" lt gry silty dol w wht veinlets of dol, fn to med gr considerable v. fn gr pyr, maybe some galena @ top of core	501-511		
511–521	8	3" gry grn v soft mud, clayey. 6" lt gry dol., v fn. gr w/ v. fn veinlets of pyrite	511-512		
			512-521		
521–526	40	lt. gry. dol. same as 511-521 w/ patches of mineralz. – prob. galena.	521-526		
526–531	35	lt & med gry dol as 511-521; fn. gr veinlets of dol healing fractures	526-531		
531–534	40	lt gry dol as 511-521; v fn gr, finely brecciated (tectonic); v fractures healed w/ dolomite & many thin veinlets of galena & pyrite	531-534		
534–541	15	1" lt gry chert; 6" med. gry gougy clayst.; Sheared, w/ white rounded dol. frag. (spots of X'ls) 1mm 4" med. gry claystone	534-541		
541–546	20	12" med. gry. dol.; partly silicified, fractured; fine grained	541-546		
546–551	6	3" lt gry fn. gr dol.; coarser gr.; wht. dol. & pyr. in fract fillings			
551–555	18	5" same as 546-551; 12" lt. gry clayey, sheared dol & claystone fragments. 24" med gry breccia of clyst. & dol	546-555		
555–565	33		555-561		
565–569	50	24" lt gry clayey dol w/ pinkish wht fractures; fine gr.	561-566		
569–571	45	10" med gr. clayey dol. w/ some laminations 35° & 60° apparent dips.	566-569		
571–576	23	14" lt. gry. fn gr. dol.; 70° (poor) app. dip	569-571		
			571-576		
576–581	18	10" clayey dol., sheared; lt to med. gry.	576-581		
581–586	10	6" lt. gry. dol. frag.	581-591		
586–591	7	4" dol. frag.; prob. slump			
591–601	18	10" v lt. gry dol; fn. gr.	591-601		
601–611	8	4" lt gry. dol.; fine gr.	611		
611–631	10	24" (total) rounded dol. frag – v lt gry to med gry. (some slump) cores in this interval are mixed due to the box overturning.			
631		T.D 11-5-67 631 feet			

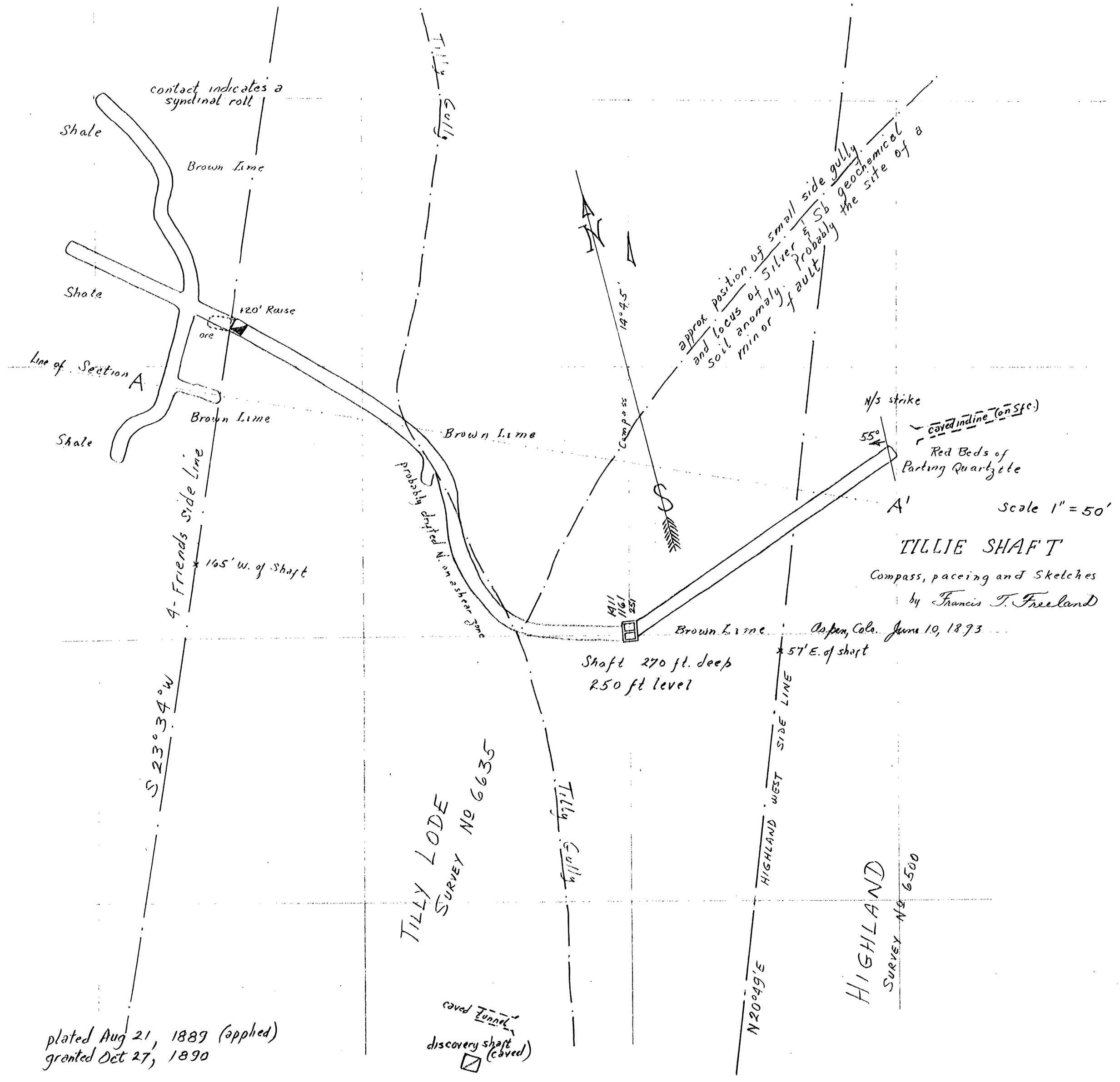
end of October → 581



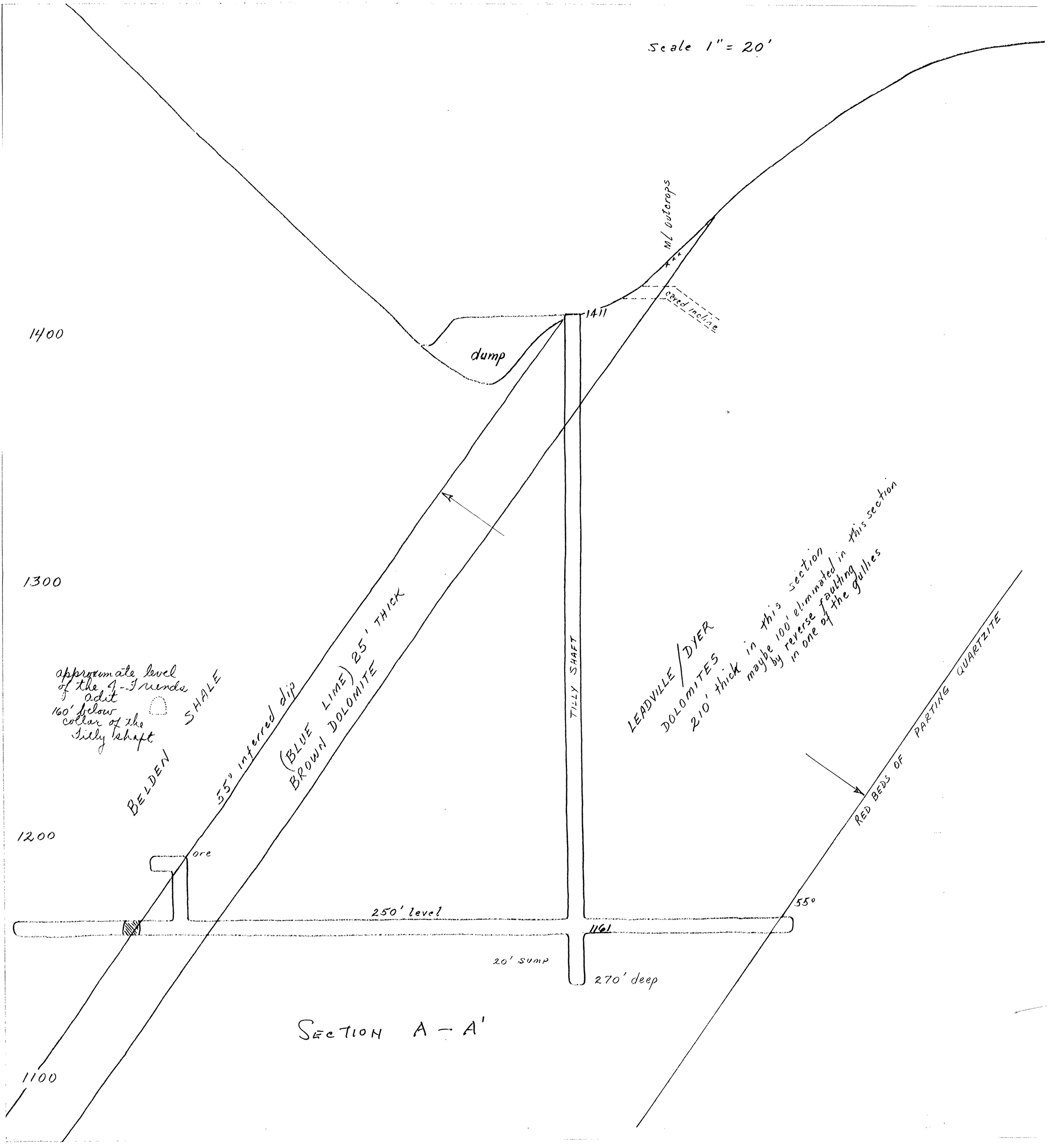
LENADO PROJECT - COMPOSITE SECTION

plane of section is N45°W

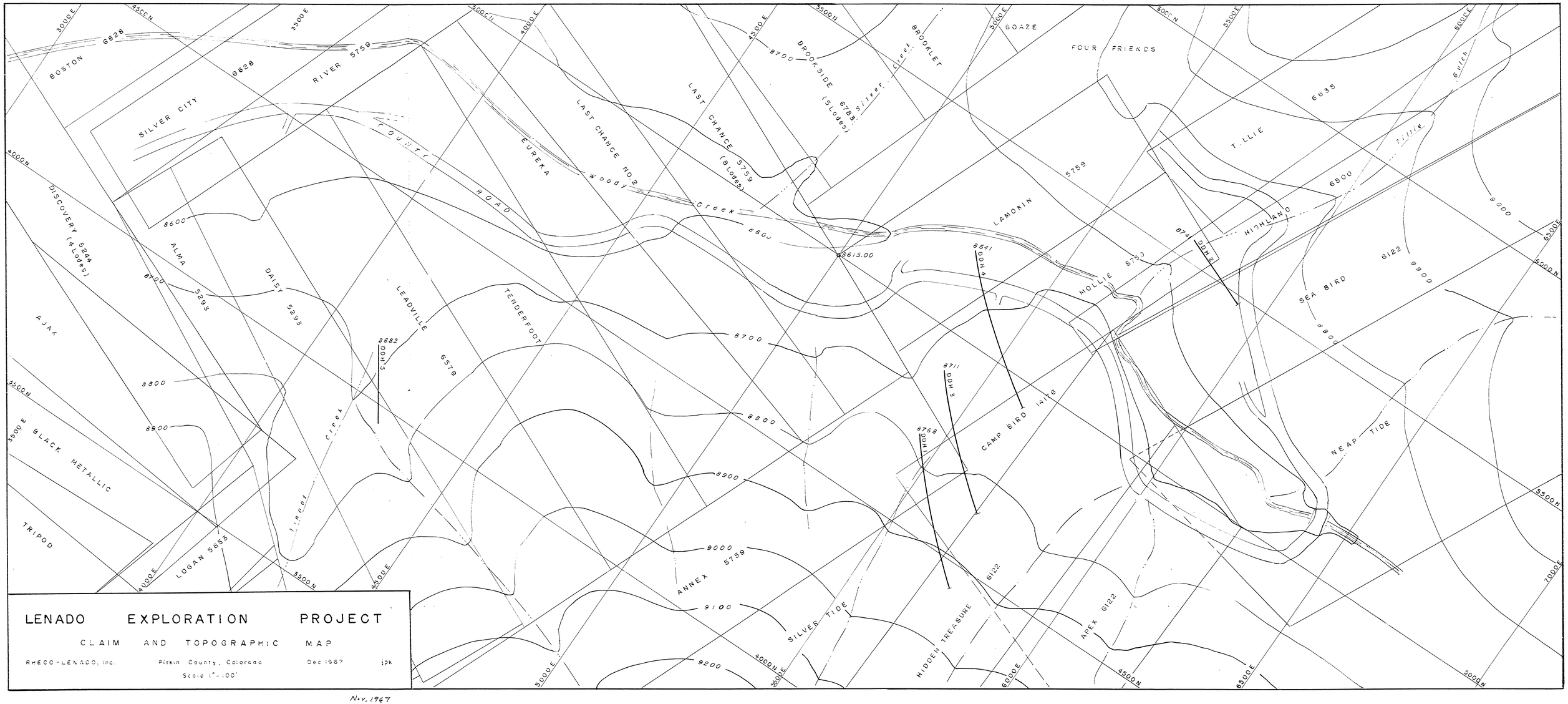
october 1967 scale 1" = 50'



plated Aug 21, 1889 (applied)
granted Oct 27, 1890


Scale 1" = 20'
1400
1300
1200
1100
ML outcrops
caved incline
1411
dump
TILLY SHAFT
approximate level of the 4-Friends adit 160' below collar of the Tilly shaft
BELDEN SHALE
55° inferred dip
(BLUE LIME) 25' THICK
BROWN DOLOMITE
LEADVILLE / DYER DOLOMITES
210' thick in this section
maybe 100' eliminated in this section by reverse faulting in one of the gullies
RED BEDS OF PARTING QUARTZITE
ore
250' level
55°
1161
20' sump
270' deep

SECTION A – A'


LENADO EXPLORATION PROJECT
CLAIM AND TOPOGRAPHIC MAP
RHECO-LENADO, Inc.
Pitkin County, Colorado
Dec 1967
jpk
Scale 1" = 100'
BOSTON
SILVER CITY
RIVER
COUNTY ROAD
EUREKA
LAST CHANCE NO 2
LAST CHANCE
BROOKSIDE
BROOKLET
GOAZE
FOUR FRIENDS
TILLIE
LAMOKIN
HIGHLAND
MOLLIE
SEA BIRD
NEAP TIDE
CAMP BIRD
APEX
HIDDEN TREASURE
SILVER TIDE
ANNEX
LEADVILLE
TENDERFOOT
DAISY
ALMA
DISCOVERY
AJAX
BLACK METALLIC
TRIPOD
LOGAN
Woody Creek
Tillie Gulch
Tenderfoot Creek
DDH 1
DDH 2
DDH 3
DDH 4
DDH 5

Nov. 1967

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
FEDERAL CENTER, DENVER, COLORADO 80225

Office of Minerals Exploration
Building 53 Room 203

February 8, 1968

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O. M. E.
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Jr 130
Orland 116
HK 130
RHCO 130 S

Memorandum

To: Chief, Office of Minerals Exploration

From: Field Officer, Region III

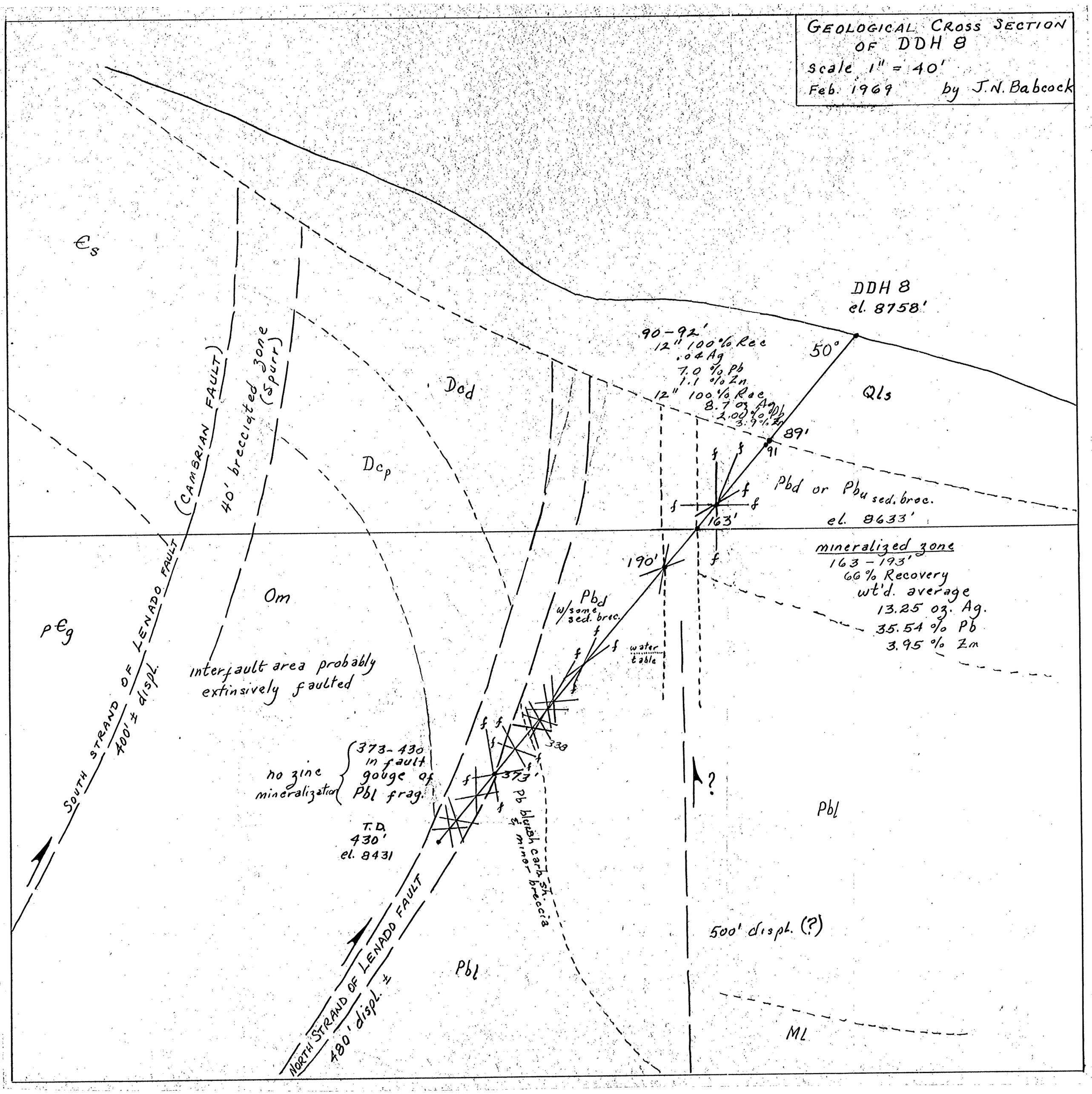
Subject: OME-6415 (Silver)
Richmond Hill Exploration Company, Inc.
RHECO-Lenado Area
Pitkin County, Colorado
Contract 2236

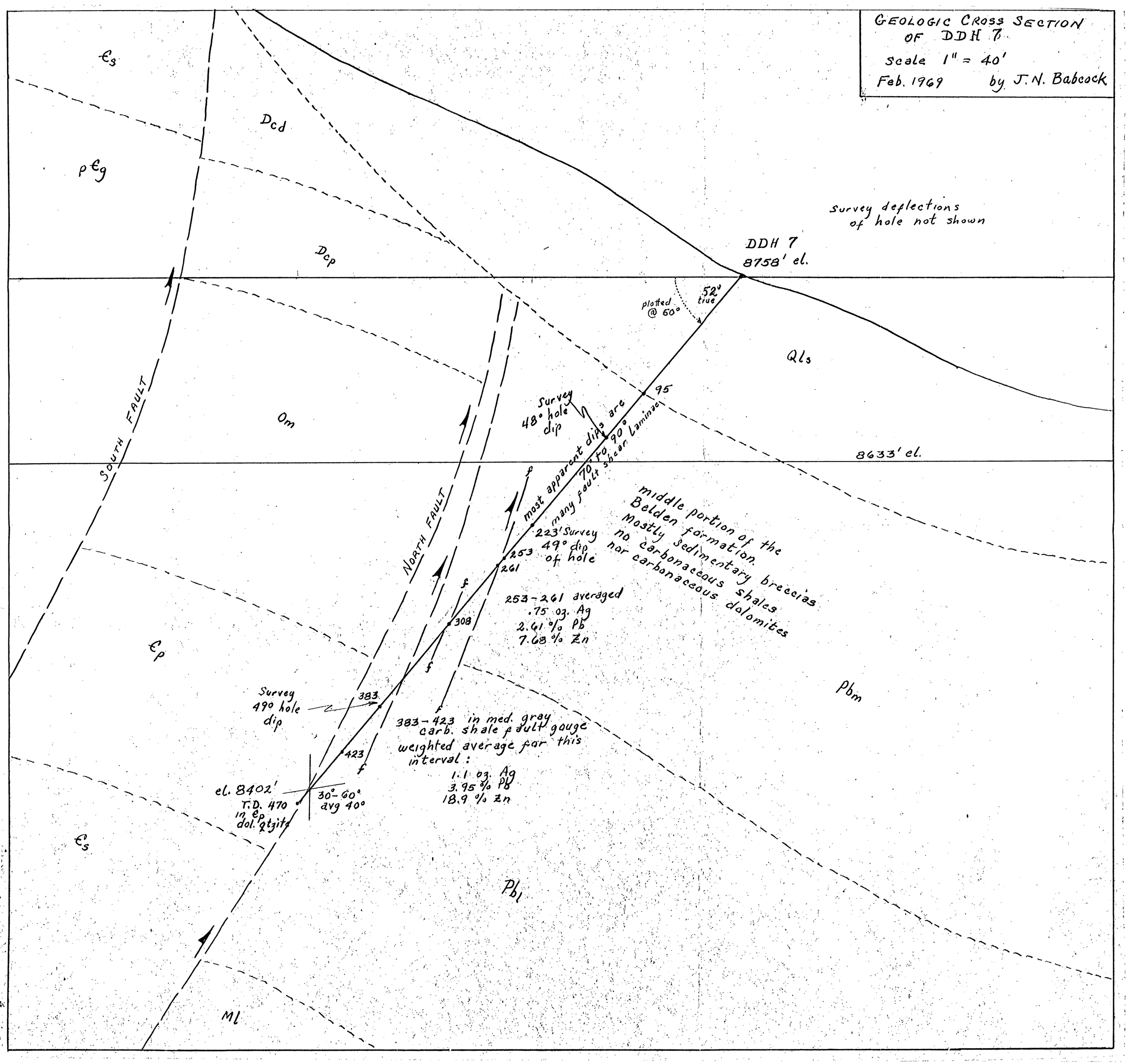
Transmitted herewith is an original and two copies of the MME Form 60 (Operator's Monthly Voucher), MME Form 61 (Operator's Progress Report) and narrative for the month of December, 1967 on the subject contract.

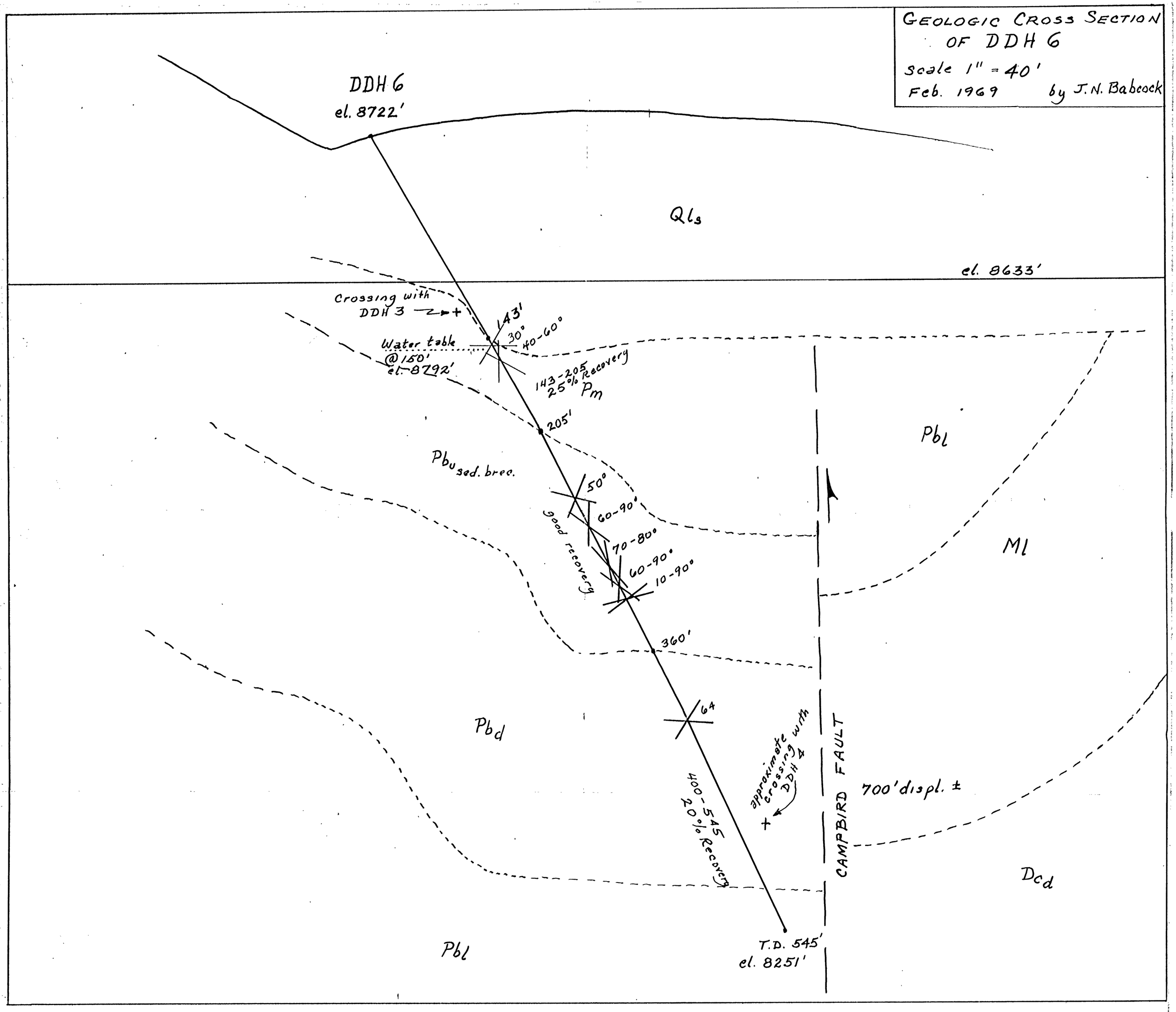
J. William Hasler

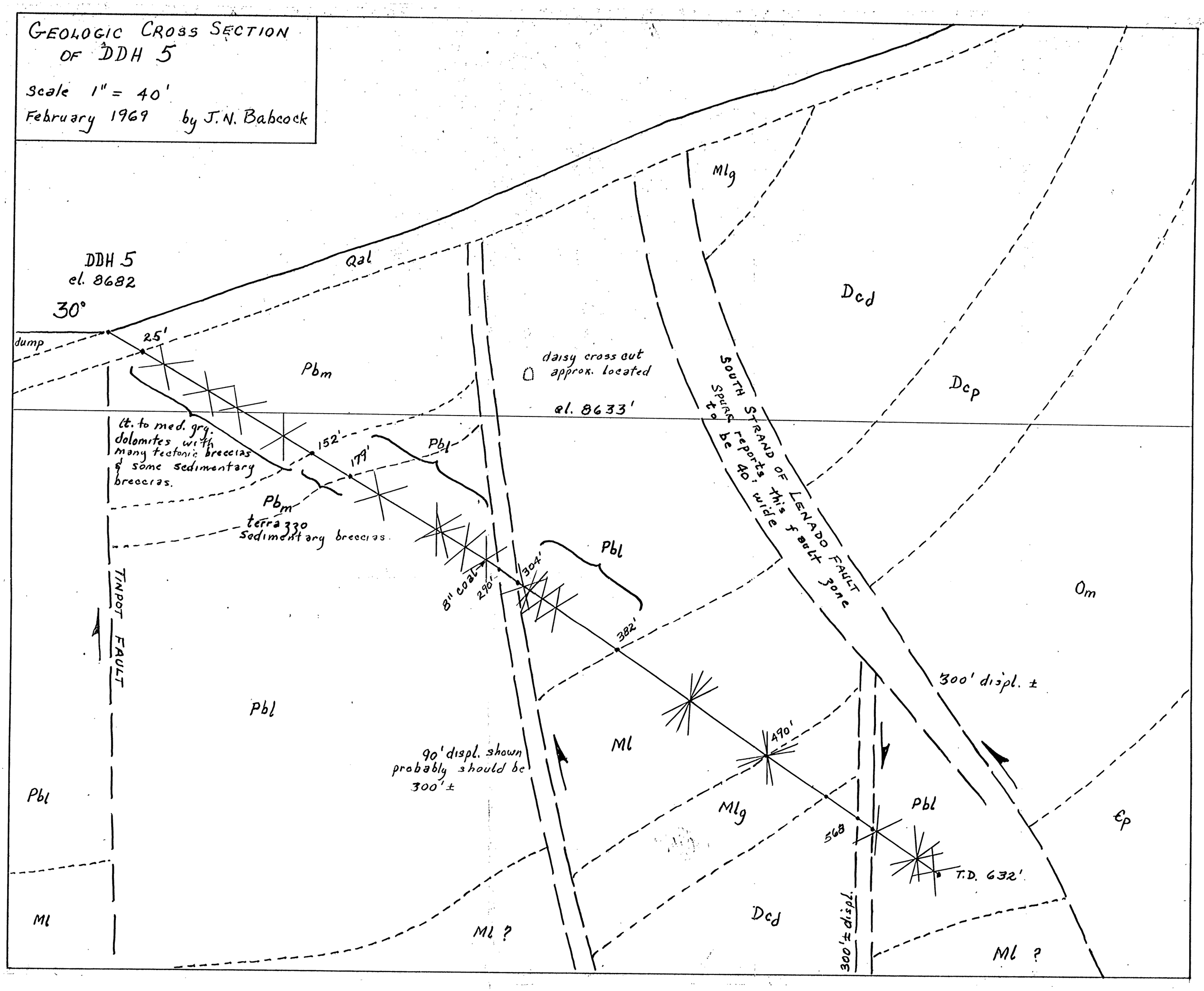
J. William Hasler,
Field Officer, Region III
Office of Minerals Exploration

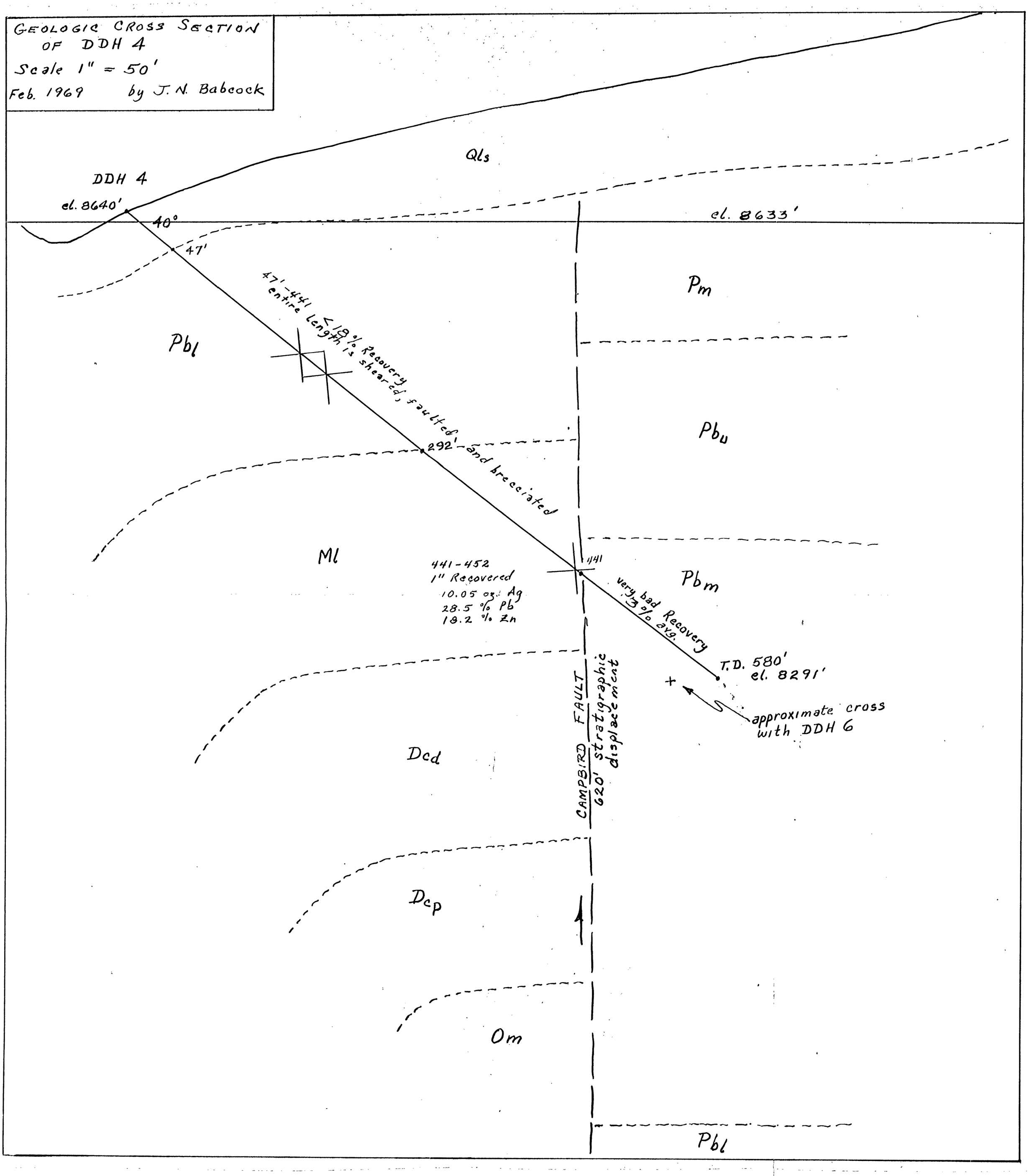
Enclosure

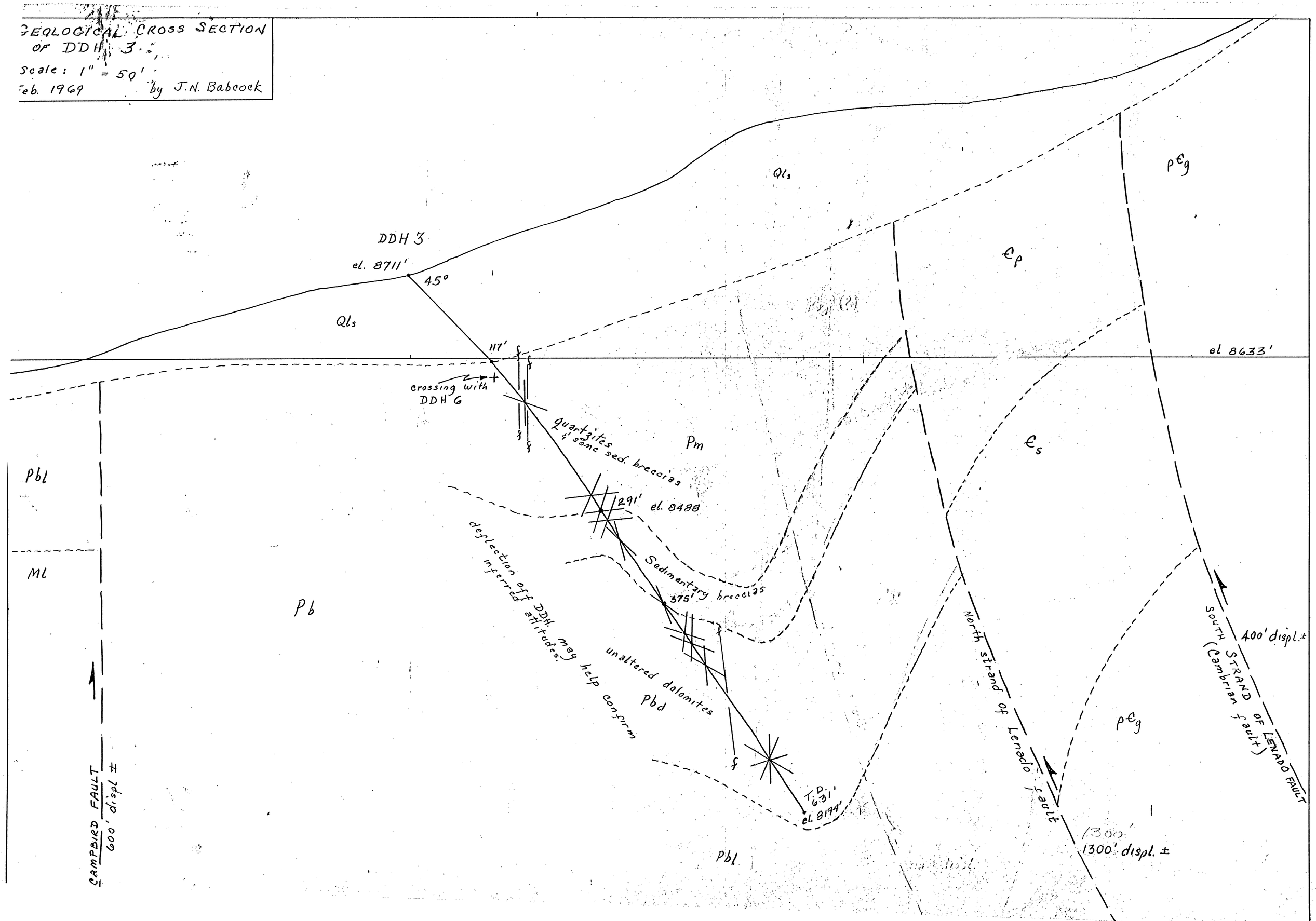

GEOLOGICAL CROSS SECTION OF DDH 8
Scale 1" = 40'
Feb. 1969 by J.N. Babcock
Ꞓs
DDH 8
el. 8758'
50°
90-92'
12" 100% Rec
.04 Ag
7.0 % Pb
1.1 % Zn
12" 100% Rec
8.7 oz Ag
2.00 % Pb
3.9 % Zn
Qls
89'
91
Dcd
Dcp
(CAMBRIAN FAULT)
40' brecciated zone (Spurr)
Pbd or Pbu sed. brec.
el. 8633'
163'
mineralized zone
163 - 193'
66 % Recovery
wt'd. average
13.25 oz. Ag.
35.54 % Pb
3.95 % Zn
190'
Om
Pbd w/some sed. brec.
water table
pꞒg
SOUTH STRAND OF LENADO FAULT
400' ± displ.
interfault area probably extinsively faulted
373-430 in fault gouge of Pbl frag.
no zinc mineralization
338
373'
T.D. 430'
el. 8431
Pb bleach carb sh. & minor breccia
?
Pbl
500' displ. (?)
NORTH STRAND OF LENADO FAULT
480' displ. ±
Pbl
ML


GEOLOGIC CROSS SECTION OF DDH 7
Scale 1" = 40'
Feb. 1969 by J.N. Babcock
survey deflections of hole not shown
DDH 7
8758' el.
52' true
plotted @ 50°
Qls
95
8633' el.
Survey 48° hole dip
most apparent dips are 70° to 90°
many fault shear laminae
middle portion of the Belden formation.
Mostly sedimentary breccias
no carbonaceous shales
nor carbonaceous dolomites
223' Survey 49° dip of hole
253
261
253-261 averaged
.75 oz. Ag
2.61 % Pb
7.68 % Zn
308
383
Survey 49° hole dip
383-423 in med. gray carb. shale fault gouge
weighted average for this interval:
1.1 oz. Ag
3.95 % Pb
18.9 % Zn
423
el. 8402'
T.D. 470 in ep dol. qtzite
30°-60° avg 40°
SOUTH FAULT
NORTH FAULT
Om
Dcd
Dcp
pЄg
Єs
Єp
Pbm
Pbl
Ml


GEOLOGIC CROSS SECTION
OF DDH 6
Scale 1" = 40'
Feb. 1969
by J.N. Babcock
DDH 6
el. 8722'
Qls
el. 8633'
Crossing with
DDH 3
143'
30°
40-60°
Water table
@150'
el. 8792'
143-205
25% Recovery
Pm
205'
Pbl
Pbu sed. brec.
50°
60-90°
good recovery
70-80°
60-90°
10-90°
Ml
360'
64
Pbd
approximate
crossing with
DDH 4
400-545
20% Recovery
CAMPBIRD FAULT
700' displ. ±
Dcd
Pbl
T.D. 545'
el. 8251'

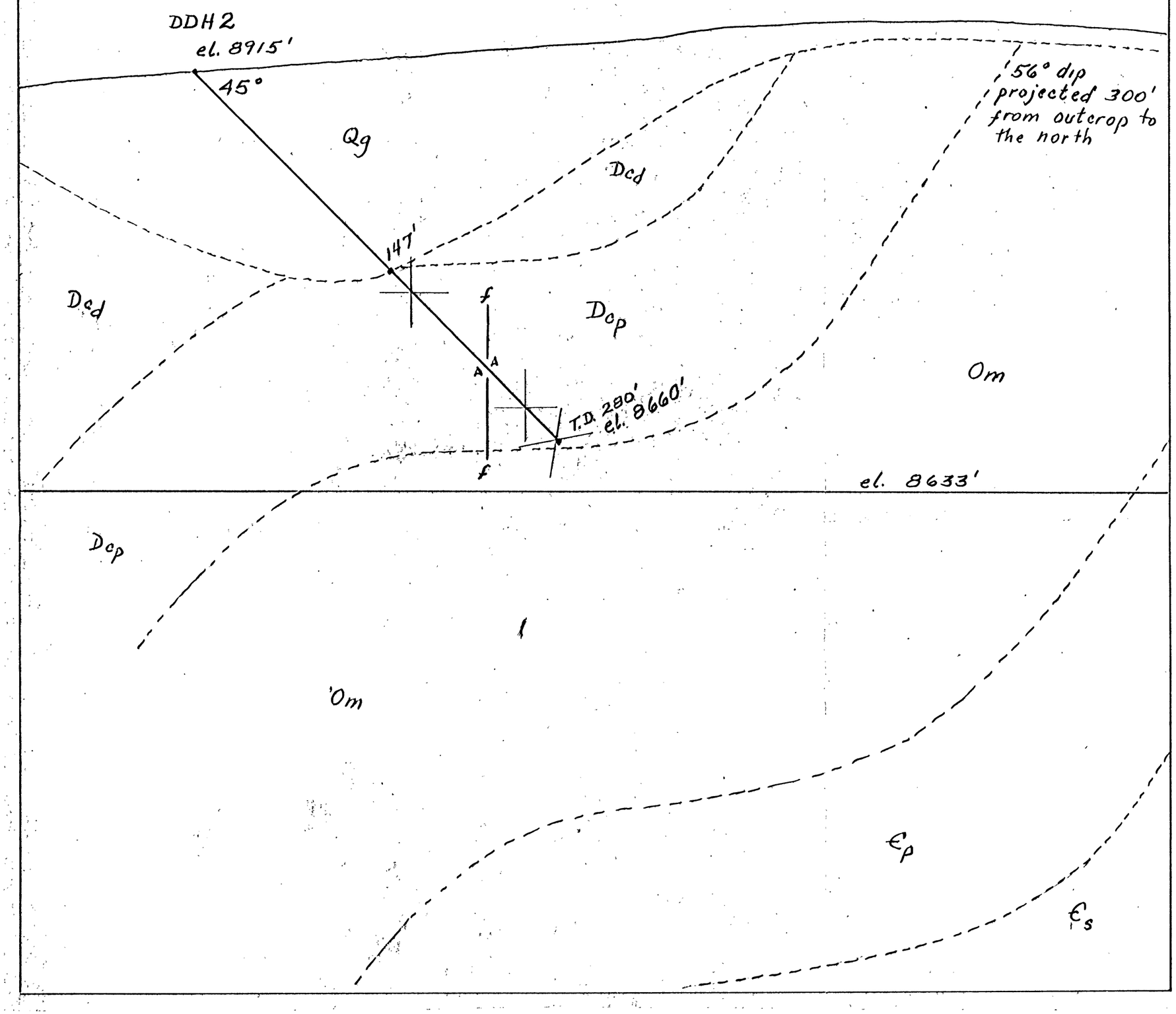

GEOLOGIC CROSS SECTION OF DDH 5
Scale 1" = 40'
February 1969 by J.N. Babcock
DDH 5
el. 8682
30°
dump
25'
Qal
Pbm
daisy cross cut approx. located
el. 8633'
Mlg
Dcd
Dcp
SOUTH STRAND OF LENADO FAULT
Spur reports this fault zone to be 40' wide
lt. to med. grg. dolomites with many tectonic breccias & some sedimentary breccias.
152'
179'
Pbl
Pbm
terrazzo sedimentary breccias.
8" coal
290'
304'
382'
Pbl
Om
TINPOT FAULT
Pbl
300' displ. ±
90' displ. shown probably should be 300'±
Ml
490'
Mlg
Pbl
Pbl
568
T.D. 632'
Ep
Ml
Ml ?
Dcd
300'± displ.
Ml ?

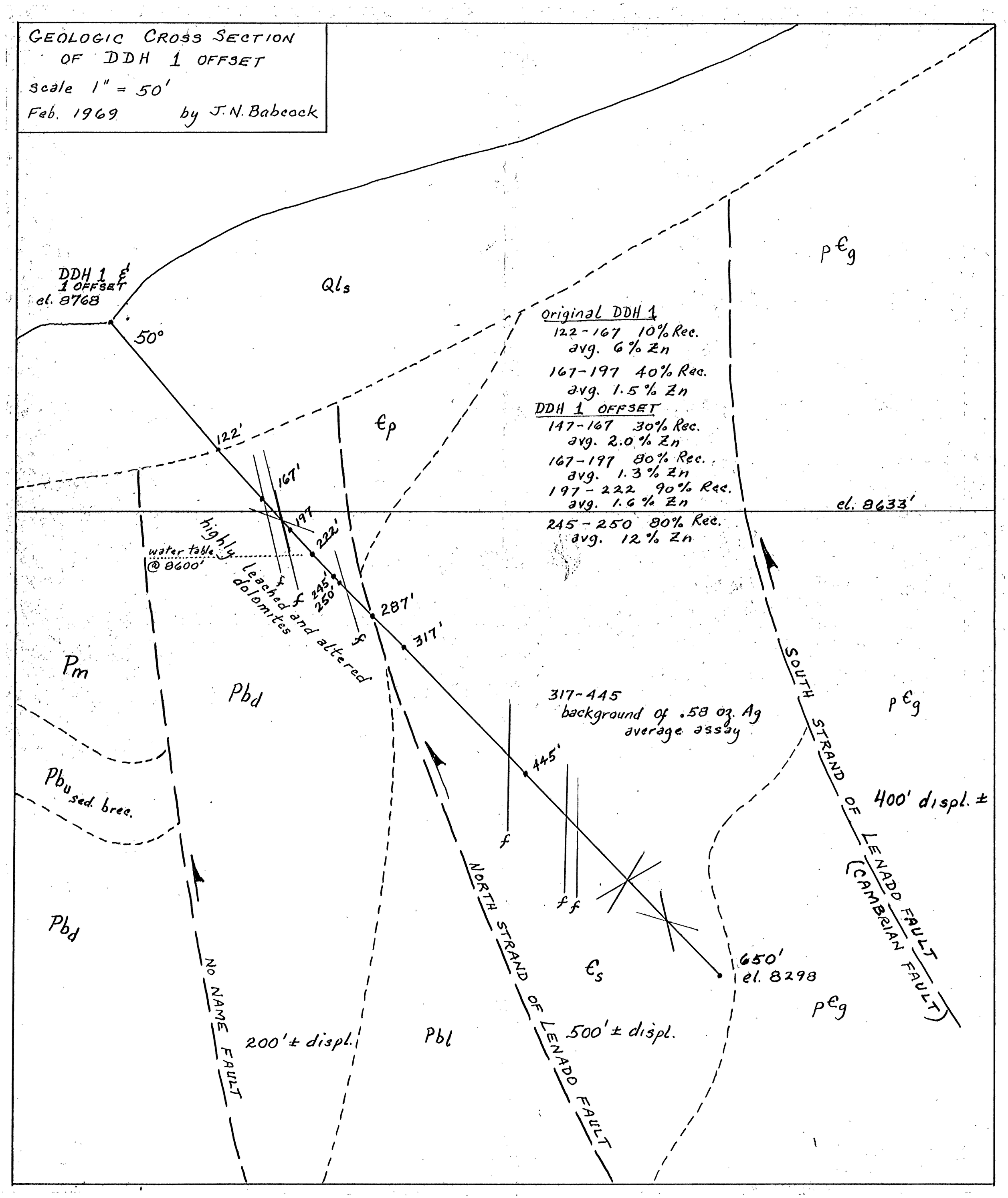

GEOLOGIC CROSS SECTION
OF DDH 4
Scale 1" = 50'
Feb. 1969 by J. N. Babcock
Qls
DDH 4
el. 8640'
40°
el. 8633'
47'
47'-441 < 19% Recovery
entire length is sheared, faulted and brecciated
Pm
Pbl
Pbu
292'
Ml
441
441-452
1" Recovered
10.05 oz. Ag
28.5 % Pb
18.2 % Zn
Pbm
very bad Recovery
3% avg.
T.D. 580'
el. 8291'
approximate cross
with DDH 6
CAMPBIRD FAULT
620' stratigraphic
displacement
Dcd
Dcp
Om
Pbl


GEOLOGICAL CROSS SECTION
OF DDH 3
Scale: 1" = 50'
Feb. 1969
by J.N. Babcock
DDH 3
el. 8711'
45°
117'
crossing with
DDH 6
quartzites
& some sed. breccias
291'
el. 8488
Sedimentary breccias
375'
unaltered dolomites
Pbd
T.D.
631'
el. 8194'
deflection off DDH may help confirm
inferred attitudes.
Ql_s
Ql_s
Pm
Pb
Pbl
Pbl
ML
CAMPBIRD FAULT
600' displ. ±
el 8633'
Є_p
Є_s
pЄ_g
pЄ_g
North strand of Lenado fault
1300' displ. ±
SOUTH STRAND OF LENADO FAULT
(Cambrian fault)
400' displ. ±

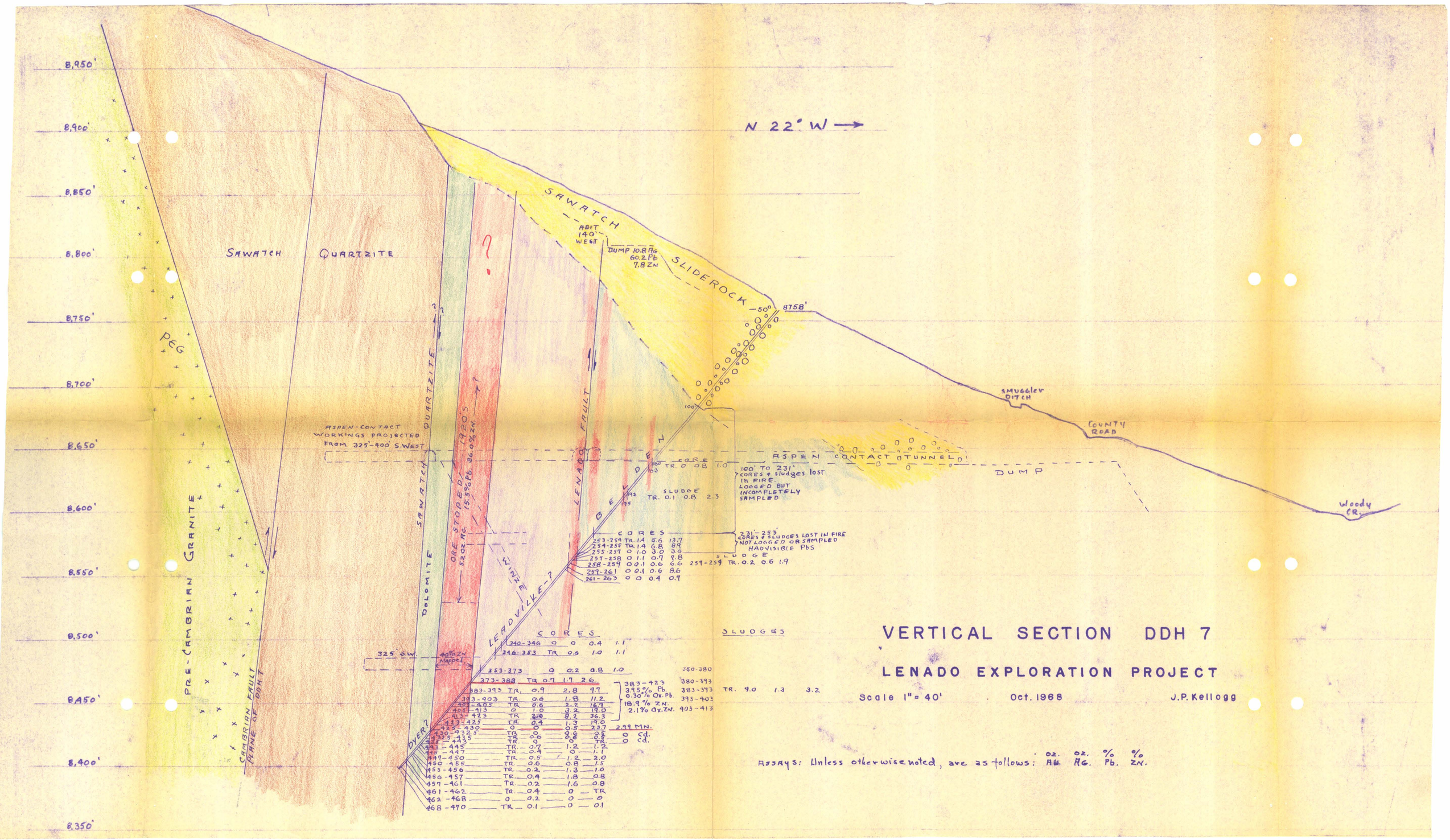
GEOLOGIC CROSS SECTION
OF DDH 2

scale 1" = 50'
Feb. 1969 by J.N. Babcock




GEOLOGIC CROSS SECTION
OF DDH 1 OFFSET
Scale 1" = 50'
Feb. 1969 by J.N. Babcock
DDH 1 & 1 OFFSET
el. 8768
50°
Qls
Original DDH 1
122-167 10% Rec.
avg. 6% Zn
167-197 40% Rec.
avg. 1.5% Zn
DDH 1 OFFSET
147-167 30% Rec.
avg. 2.0% Zn
167-197 80% Rec.
avg. 1.3% Zn
197-222 90% Rec.
avg. 1.6% Zn
245-250 80% Rec.
avg. 12% Zn
pЄg
Єp
122'
167'
197
222'
245'
250'
287'
317'
445'
650'
el. 8633'
highly leached and altered dolomites
water table @ 8600'
Pm
Pbd
Pbu sed. brec.
317-445
background of .58 oz. Ag
average assay
SOUTH STRAND OF LENADO FAULT (CAMBRIAN FAULT)
400' displ. ±
NORTH STRAND OF LENADO FAULT
500' ± displ.
Єs
el. 8298
NO NAME FAULT
200' ± displ.
Pbl

GEOLOGIC MAP OF LENADO AREA
RHECO-LENADO, INC.
Scale 1" = 40'
February 1969
by James N. Babcock
All mine workings are inaccurately & crudely located from maps by Spurr & Herron. maps are inadequate and no Geology is shown.
CAMPBIRD FAULT
NORTH STRAND LENADO FAULT
SOUTH STRAND OF LENADO FAULT
CAMBRIAN FAULT
NO NAME FAULT
SILVER CREEK LINEAMENT
COUNTY ROAD
Portal of Aspen Contact Mine
First 80' to be opened with a front end loader
550' long adit
40' wide zone of breccation reported in Spurr
DDH 4 el 8640'
DDH 3 el. 8711' 55°
DDH 6 el. 8722 60°
DDH 1 50°
DDH 1 OFFSET el. 8768'
DDH 7 el. 8758' 52°
DDH 8 50°
Lower Belden
Leadville ?
Middle Belden
Pm quartzites & sed. brec.
Pbu sed. brec.
unaltered dolomites
altered dolomites
Ꞓs Quartzites
Pb sed. breccias
25' wide zone of fault gouge
N. STRAND LENADO FAULT IN DDH.
carb. sh. Pbl fault gouge
trend unknown
60-85°
58-87°
Dcp
pꞒg
Ꞓs
Ꞓp
8615


8,950'
8,900'
8,850'
8,800'
8,750'
8,700'
8,650'
8,600'
8,550'
8,500'
8,450'
8,400'
8,350'
N 22° W →
SAWATCH QUARTZITE
PEG
PRE-CAMBRIAN GRANITE
CAMBRIAN FAULT PLANE OF DDH 7
SAWATCH QUARTZITE
DOLOMITE
ORE STOPED 1920'S
SPOKANE 15.5% Pb 36.0% ZN
?
LENADO FAULT
LEADVILLE-?
DYER?
ASPEN-CONTACT WORKINGS PROJECTED FROM 325'-400' S.WEST
SAWATCH SLIDEROCK
ADIT 140' WEST
DUMP 10.8 Ag 60.2 Pb 7.8 ZN
-50°
8758'
100'
SMUGGLER DITCH
COUNTY ROAD
ASPEN CONTACT TUNNEL
DUMP
Woody CR.
CORES
TR. 0 0.8 1.0
SLUDGE
TR. 0.1 0.8 2.3
100' TO 231' CORES & sludges lost in FIRE. LOGGED BUT INCOMPLETELY SAMPLED
231-253' CORES & SLUDGES LOST IN FIRE NOT LOGGED OR SAMPLED HAD VISIBLE Pbs
CORES
253-254 TR. 1.4 5.6 13.7
254-255 TR. 1.4 6.8 8.9
255-257 0 1.0 3.0 3.0
257-258 0 1.1 0.7 9.8
258-259 0 0.1 0.6 6.6
259-261 0 0.1 0.6 8.6
261-263 0 0 0.4 0.7
SLUDGE
259-263 TR. 0.2 0.6 1.9
CORES
240-346 0 0 0.4 1.1
346-353 TR 0.6 1.0 1.1
325' S.W.
40% ZN Mapped
353-373 0 0.2 0.8 1.0
373-383 TR 0.7 1.7 2.6
383-393 TR. 0.9 2.8 9.7
393-403 TR. 0.6 1.8 11.2
403-413 TR. 0.6 2.2 16.7
413-423 0 1.0 3.2 19.0
423-425 TR. 2.0 8.2 36.3
425-430 TR. 0.4 1.3 19.0
430-432.5 0 0 0.5 2.37
432.5-435 TR. 0 0.8 0.5
435-443 TR. 0.6 0.8 0.5
443-445 TR. 0 0 TR.
445-447 TR. 0.7 1.2 1.2
447-450 TR. 0.4 0 1.1
450-455 TR. 0.5 1.2 2.0
455-456 TR. 0.6 0.8 1.5
456-457 TR. 0.2 1.3 1.0
457-461 TR. 0.4 1.8 0.8
461-462 TR. 0.2 1.6 0.8
462-468 0 0.4 0 TR
468-470 0 0.2 0 0
TR. 0.1 0 0.1
SLUDGES
380-380
380-393
383-393 TR. 9.0 1.3 3.2
393-403
403-413
383-423 3.95% Pb. 0.30% Ox. Pb. 18.9% ZN. 2.1% Ox. ZN.
2.99 MN.
0 Cd.
0 Cd.
VERTICAL SECTION DDH 7
LENADO EXPLORATION PROJECT
Scale 1" = 40'
Oct. 1968
J.P. Kellogg
ASSAYS: Unless otherwise noted, are as follows: oz. Au. oz. Ag. % Pb. % Zn.

(ADVANCE SHEET)

LENADO EXPLORATION PROJECT

SURVEY PLAN MAP

RHECO-LENADO, Inc. Pitkin County, Colorado Oct. 1967 jpk

scale 1" = 100'

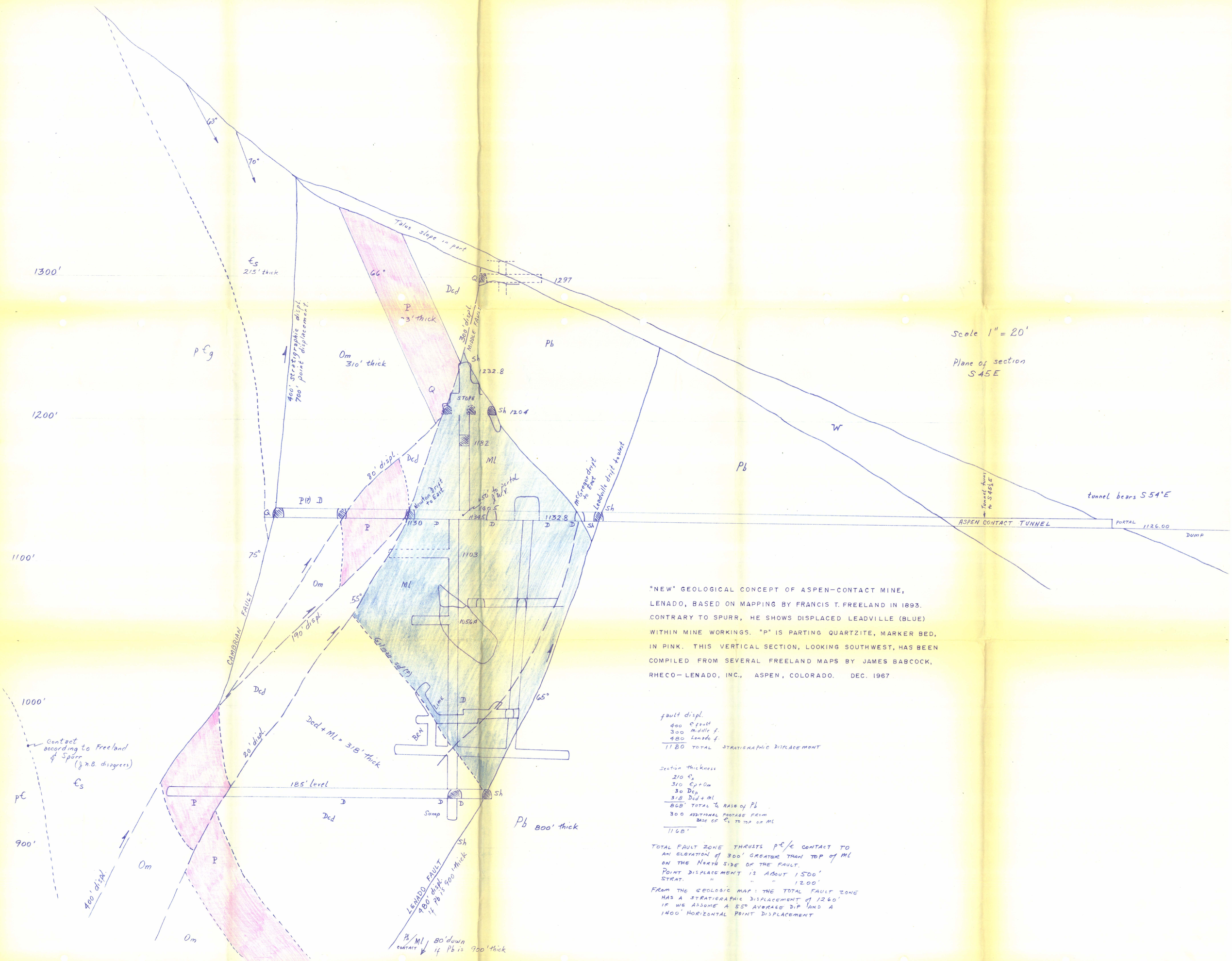
(ADVANCE SHEET)

LENADO EXPLORATION PROJECT

SURVEY PLAN MAP

RHECO-LENADO, Inc. Pitkin County, Colorado Oct. 1967 jpk

scale 1" = 100'



"NEW" GEOLOGICAL CONCEPT OF ASPEN–CONTACT MINE, LENADO, BASED ON MAPPING BY FRANCIS T. FREELAND IN 1893. CONTRARY TO SPURR, HE SHOWS DISPLACED LEADVILLE (BLUE) WITHIN MINE WORKINGS. "P" IS PARTING QUARTZITE, MARKER BED, IN PINK. THIS VERTICAL SECTION, LOOKING SOUTHWEST, HAS BEEN COMPILED FROM SEVERAL FREELAND MAPS BY JAMES BABCOCK, RHECO–LENADO, INC., ASPEN, COLORADO. DEC. 1967

fault displ.

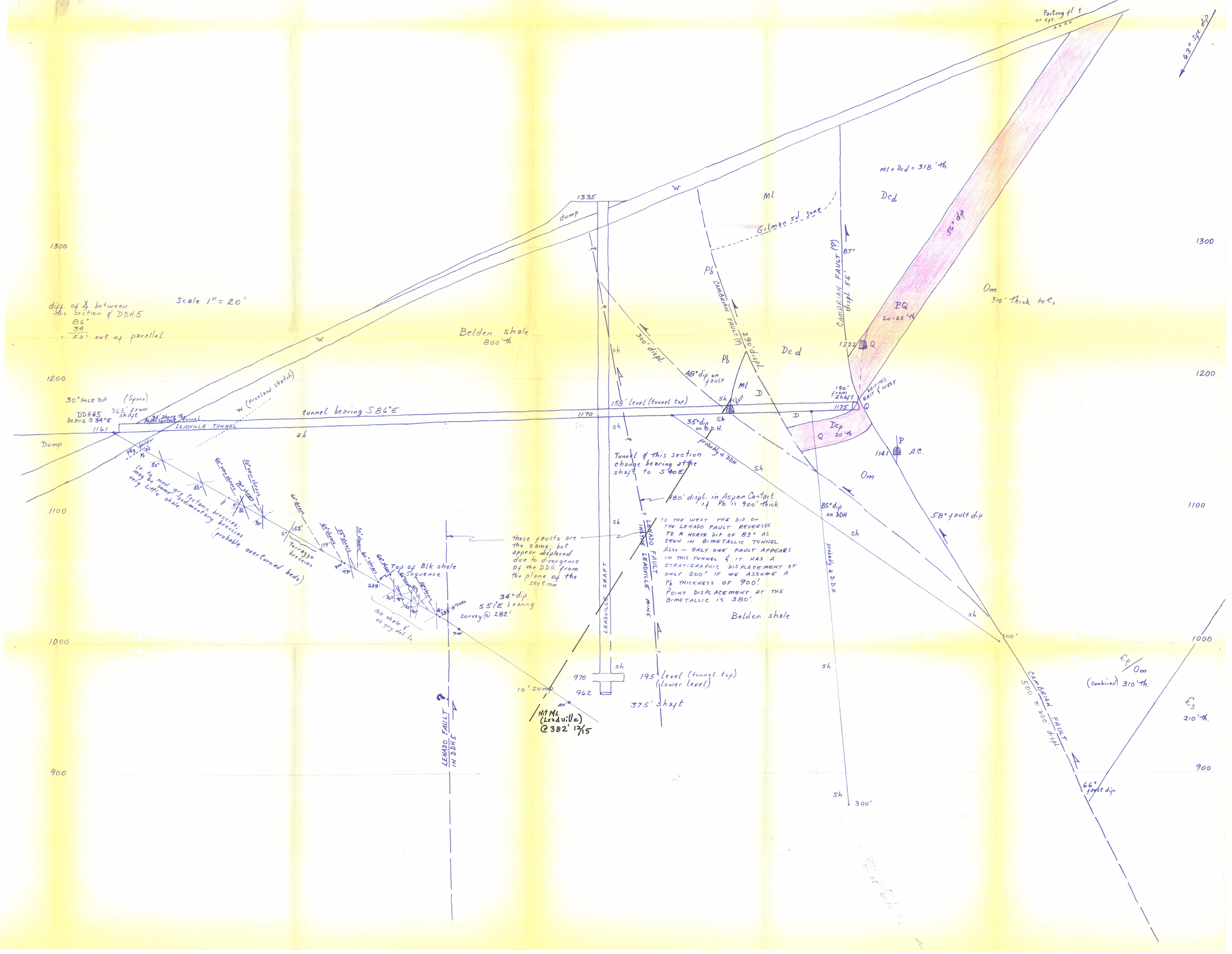
400	Ꞓ fault
300	middle f.
480	Lenado f.
1180	TOTAL STRATIGRAPHIC DISPLACEMENT

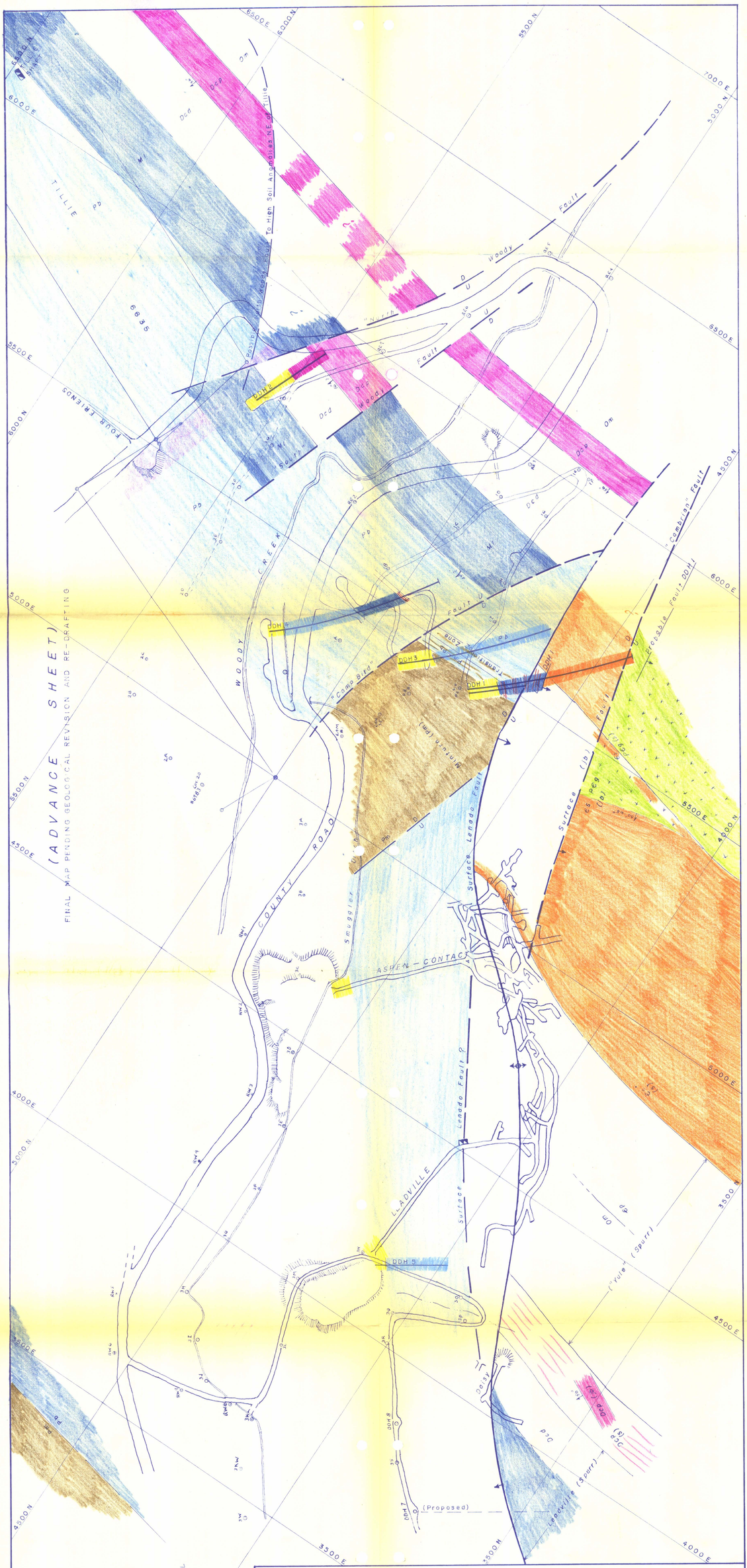
Section thickness

210	Ꞓs
310	Ꞓp + Om
30	Dcp
318	Dcd + Ml
868'	TOTAL to BASE of Pb
300	ADDITIONAL FOOTAGE FROM BASE OF Ꞓs TO TOP OF Ml
1168'	

TOTAL FAULT ZONE THRUSTS pꞒ/Ꞓ CONTACT TO AN ELEVATION of 300' GREATER THAN TOP of Ml ON THE NORTH SIDE OF THE FAULT.
POINT DISPLACEMENT IS ABOUT 1500'
STRAT. " " " 1200'

FROM THE GEOLOGIC MAP: THE TOTAL FAULT ZONE HAS A STRATIGRAPHIC DISPLACEMENT of 1260' IF WE ASSUME A 55° AVERAGE DIP AND A 1400' HORIZONTAL POINT DISPLACEMENT


Parting fl t on sfc.
63° Sfc. dip
1335
dump
W
Ml
Dcd
Ml + Dcd = 318' th.
Gilman sd. zone
56° dip
1300
Pb
CAMBRIAN FAULT (?)
87°
CAMBRIAN FAULT (?) disp. 55'
Om
310' thick to ℰs
diff. of ∡ between this section & DDH5
86°
34
52° out of parallel
Scale 1" = 20'
Belden shale 800' th
300' disp.
290' disp.
PQ
20-25' th
1222
Q
1200
48° dip on fault
Dcd
30° HOLE DIP
(Spur)
DDH#5 bears S 34° E
365' from shaft
35' above the Aspen contact
W (freeland sketch)
tunnel bearing S 86° E
158' level (tunnel top)
1170
190' from shaft
DRIFTED EAST & WEST
1175
Dcp
20' th
1161
LEADVILLE TUNNEL
Dump
Peg. boulder
35° dip on D.D.H.
probably a DDH
Tunnel of this section change bearing at the shaft to S 40 E
1141
A.C.
Om
Lt. to be mod. gry. tectonic breccias, may be some sedimentary breccias very little shale.
(probable overturned beds)
60° von shears
50° von shears
70° shears
60° shears
55° shears
35° shears
Terrazzo breccias
152'
179'
229'
Top of Blk shale sequence
Blk shale & dk. gry dol. ls.
BituCOAL
these faults are the same, but appear displaced due to divergence of the DDH. from the plane of the section
34° dip
S 51° E bearing
survey @ 282'
10' sump
Hit Ml (Leadville) @ 382' 12/15
LEADVILLE SHAFT
LENADO FAULT IN DDH5
LENADO FAULT IN THE LEADVILLE MINE
180' displ. in Aspen Contact if Pb is 900' thick
TO THE WEST THE DIP ON THE LENADO FAULT REVERSES TO A NORTH DIP OF 83° AS SEEN IN BIMETALLIC TUNNEL ALSO — ONLY ONE FAULT APPEARS IN THIS TUNNEL & IT HAS A STRATIGRAPHIC DISPLACEMENT OF ONLY 200' IF WE ASSUME A Pb THICKNESS OF 900'. POINT DISPLACEMENT AT THE BIMETALLIC IS 380'.
Belden shale
85° dip on DDH
probably a D.D.H.
58° fault dip
1100
970
962
195' level (tunnel top) (lower level)
375' shaft
300'
CAMBRIAN FAULT 500 to 600' disp.
66° fault dip
ℰp/Om (combined) 310' th.
ℰs 210' th.
1000
900



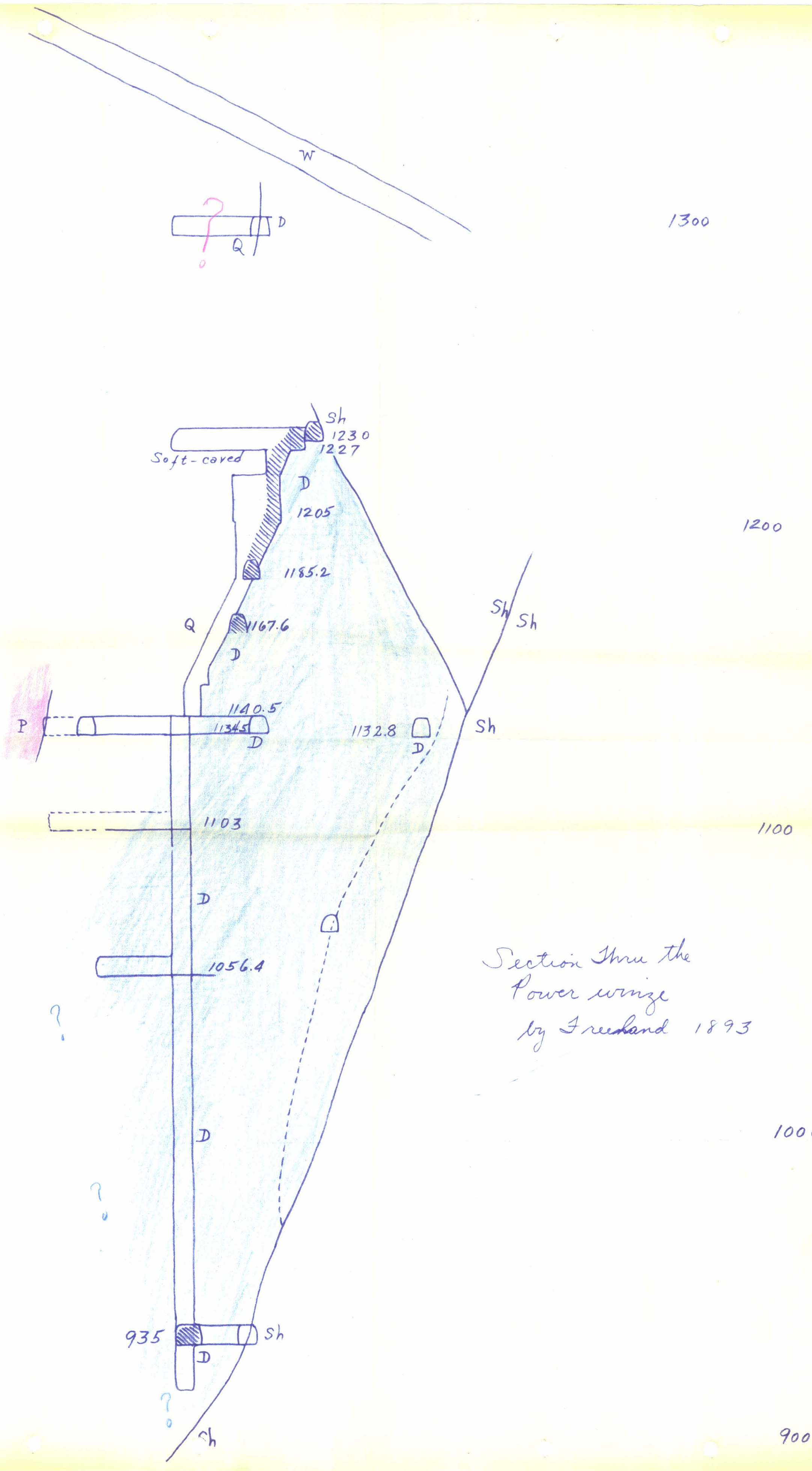
(ADVANCE SHEET)

LENADO EXPLORATION PROJECT

SURVEY PLAN MAP

RHECO-LENADO, Inc. Pitkin County, Colorado Oct. 1967 jpk

scale 1" = 100'


W
D
Q
?
1300
Sh
1230
1227
Soft-cored
D
1205
1200
1185.2
Sh
Sh
Q
1167.6
D
1140.5
P
1134.5
D
1132.8
D
Sh
1103
1100
D
1056.4
Section thru the
Power winze
by Freeland 1893
?
D
1000
?
935
Sh
D
?
Sh
9000

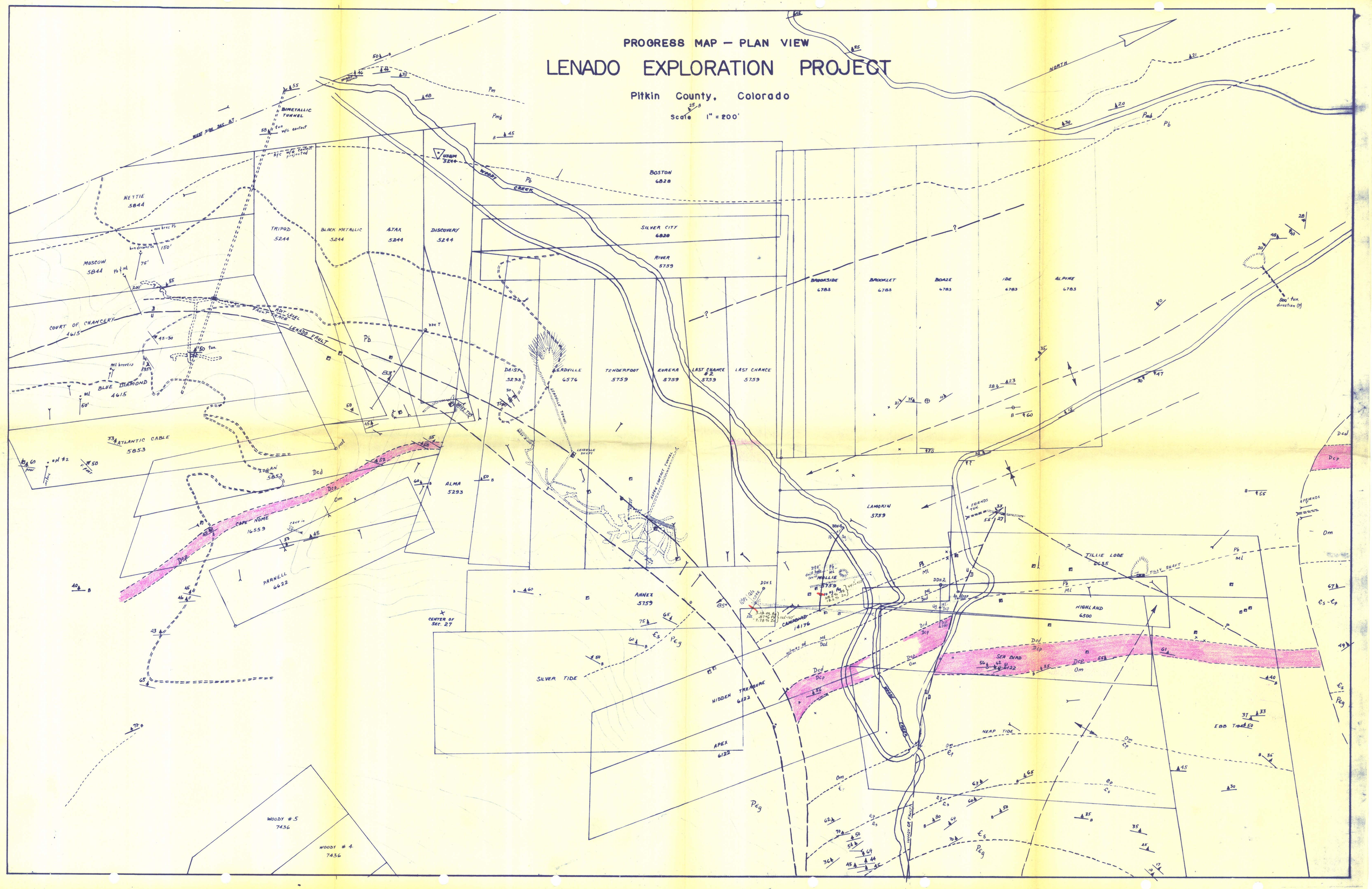
(ADVANCE SHEET)

LENADO EXPLORATION PROJECT

SURVEY PLAN MAP

RHECO-LENADO, Inc. Pitkin County, Colorado Oct. 1967 jpk

scale 1" = 100'


PROGRESS MAP — PLAN VIEW
LENADO EXPLORATION PROJECT
Pitkin County, Colorado
Scale 1" = 200'
NORTH
BIMETALLIC TUNNEL
NETTIE 5844
MOSCOW 5844
COURT OF CHANCERY 4615
BLUE DIAMOND 4615
ATLANTIC CABLE 5853
TIDGAN 5853
CAPE NOME 16559
PARNELL 6622
TRIPOD 5244
BLACK METALLIC 5244
AJAX 5244
DISCOVERY 5244
ADIT LEVEL
FAULT FORCE
LENADO FAULT
WOODY CREEK
BOSTON 6828
SILVER CITY 6828
RIVER 5759
BROOKSIDE 6783
BROOKLET 6783
BOAZE 6783
IDE 6783
ALPINE 6783
DAISY 5293
KEADVILLE 6576
TENDERFOOT 5759
EUREKA 5759
LAST CHANCE #2 5759
LAST CHANCE 5759
LEADVILLE SHAFT
ALPINE TUNNEL
ALMA 5293
LAMOKIN 5759
TILLIE LODE 6635
TILLY SHAFT
HIGHLAND 6500
ANNEX 5759
CENTER OF SEC. 27
SILVER TIDE
HIDDEN TREASURE 6622
APEX 6622
SEA BIRD
NEAP TIDE
EBB TIDE
WOODY #5 7436
WOODY #4 7436
800' tun. direction (?)