OFFICIAL FILE COPY
O. M. E
RECEIVED MAR 17 1961

DATE	INITIALS	
3-17	gad	VVO
"	JEL	110
3/20	[illegible]	800
"	Hoeft	500

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
So. 157 Howard Street
Spokane 4, Washington
March 13, 1961

Memorandum

To: Chief, Division of Field Operations

From: Acting Field Officer, Region I

Subject: Interim inspection report, Docket No. OME-6086 (Mercury)
A. O. Bartell, Nisbet Mine, Clackamas County, Oregon
Contract 2120

The project was inspected March 2, 1961, accompanied by A. O. Bartell.

Soft boglike ground near the proposed start of the road, caused by excessive rainfall, made it impossible to follow the original plan. The route followed required considerably more timber removal and blasting than was estimated and is about 200 feet longer than the 1,570 feet allowed by the contract. The approximate location of the road as constructed is shown on the accompanying sketch.

The holes from stations Y and C have been completed as have holes A-1, A-2, and B-1 from station 76. The drill is a Sullivan 12 with a swivel head and hoist. At stations Y and C the drill was powered by a 12 hp gasoline driven motor. Station 76 is within 100 feet of the old mill to which a 440 volt line had been run prior to the OME contract. At this station the drill is powered by a 10 hp 3-phase General Electric motor connected directly to the drill. Water is taken from the creek at the drill site by a Boyles Brothers 4 x 4 piston pump connected by a V-belt to a 10 hp 3-phase Westinghouse motor.

At the start of the drilling a 5-foot Sullivan rigid tube core barrel was used with an AX bit. Core recovery with this equipment was about 80 percent. Later, a change was made to an AX HW core barrel manufactured by Diamond Drill Contracting Company of Spokane, Washington. This barrel achieved virtually 99 percent recovery.

The drilling so far has been discouraging. All veins were intersected by the appropriate completed holes; they comprised silica and calcite with many small bits of pyrite but only an occasional flake or paper thin seam of cinnabar. Sludge from each 5-foot run was panned, the pannings showing considerable fresh pyrite but little or no cinnabar.

Hole Y was drilled to a depth of 150 feet, on a bearing of N. 17° E. and at an inclination of -70°. Starting in highly altered basalt the hole within a few feet passed into hard, gray-black amygaloidal basalt with occasional bands of alteration. The Yew Tree vein and the Falls vein were cut at depths of 35 to 47 feet and 87 to 92 feet, respectively. Both veins were mixtures of hard silica ribs and calcite with some stilbite in vugs. Pyrite was much more common than in the surface exposure of the vein. No cinnabar was found in the core or sludge pannings from either vein.

Hole C was drilled to a depth of 155.5 feet on a bearing of N. 50° E. and at an inclination of -75°. This hole cut the Cedar Tree vein and the Falls vein at depths of 35 to 53 feet and 92.5 to 96 feet, respectively. The basalt and the veins were similar in composition and texture to those cut by hole Y.

From station 76, holes A-1, A-2, and B-1 have been completed at depths of 148 feet, 251.5 feet, and 154 feet, respectively. Holes A-1 and A-2 were drilled on a bearing of S. 52° W., A-1 at an inclination of -46° and A-2 at -80°. Hole B-1 was drilled on a bearing of S. 40° E. at -45°.

Hole A-1 was in altered to fresh basalt for its entire length. At about 70 feet a 6-inch calcite vein with one or two small specks of cinnabar was cut. The Oak Grove vein zone was cut at about 88 feet, the hole not passing through the vein until it had reached a depth of about 123 feet. The Oak Grove vein zone in this hole dips about 80° and is therefore about 27 feet thick. It comprises altered basalt breccia cemented with silica and calcite and veins of calcite with silica ribs. Core and pannings of the sludge showed considerable fine specks of pyrite and occasional specks of cinnabar.

Hole A-2 was in altered and fresh basalt to a depth of about 243 feet where it passed into the Warrendale agglomerate. Four calcite veins were cut before the Oak Grove vein was encountered: a 4-inch calcite vein with no cinnabar at 98 feet, a 4-inch calcite vein with a few small flecks of cinnabar at 137 feet, a 6-inch calcite vein with no cinnabar at 159 feet, and an 18-inch calcite vein with no cinnabar at 177 feet. The Oak Grove vein zone was cut from 207 feet to 229 feet but is broken by a horse of basalt from 216 feet to 222 feet. The total width of the zone, including the horse is about 9 feet. The vein material is the same as that found in hole A-1; occasional small flakes of cinnabar were found in the core and the pannings.

Hole B-1 is in altered and fresh basalt to the bottom of the hole. It cut two vein zones separated by basalt, the first zone from about 67 feet to 87.5 feet, the second from 127 feet to 144 feet. The vein material is similar to that in hole A-1 but contains no cinnabar.

At the time of the inspection hole B-3 had been drilled with a non-coring AX bit to a depth of 188 feet, all in basalt. Sludge from each 5-foot section is being saved and is carefully panned. So far no appreciable calcite and no cinnabar has been observed. The Warrendale formation should be cut at a depth of about 240 feet and the Oak Grove vein should be cut at about 340 feet.

Unusually heavy rain has resulted in excessively high water in the Oak Grove fork of the Clackamas River and has caused considerable loss of time on project work.

Status of contract:

Date of contract:	August 31, 1960
Termination date:	February 28, 1961
Amount of contract:	$14,920.00
Amount spent through January 1961:	$ 6,860.00

Item	Authorized	Completed
Construction of access road	1,570 feet	1,570 feet
Diamond core drilling (AX size)	1,500 "	859 "
Core boxes	48 each	27 each

D. R. MacLaren

Enclosure
Distribution:
OME(Orig.&2)
Docket
MacLaren

MME FORM 60
SEPT. 1959

RECEIVED
Cert.-R.R.
MAY 2 1962
U. S. G. S.
SPOKANE, WASH.

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

July 2 1962
Docket No. 2
Contract No. 14-23-090-
Contract Amount $ 14,920
Gov't. Participation % 50 $ 7,460
Mineral(s) Mercury

~~OMS 6096~~
2120

OPERATOR'S MONTHLY VOUCHER

For Month of ~~April, 1962~~

Operator's Name ~~A. O. Bartell~~
Address ~~5115 S. W. Northwood Ave., Portland 1, Ore.~~

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						
Drifting						
Crosscutting						
Drilling ~~AX Core~~	~~$ 174.00~~	~~$ 8,591.25~~	~~$ 8,765.25~~	174.00	8,591.25	8,765.25
~~AX Non-Core~~	~~---~~	~~1,073.58~~	~~1,073.58~~	–	1,073.58	1,073.58
~~Access Road~~	~~---~~	~~1,570.00~~	~~1,570.00~~	–	1,570.00	1,570.00
(2) Personnel: ~~Core Boxes~~	~~3.50~~	~~112.00~~	~~115.50~~	3.50	112.00	115.50
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.					5960	
Operating Equipment						
(6) New Buildings, Fixtures, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Analytical Work						
Payroll Taxes						
Employee's Liability Ins.						
TOTALS	~~$ 177.50~~	~~11,346.83~~	~~11,524.33~~	177.50	11,346.83	11,524.33

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

Date ~~4-30-62~~ *Payee A. O. Bartell

Per _____ Title ~~Owner~~

* 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:

$ 88.75

Signature BHB
(Authorized Certifying Officer)

Date 6/27/62 Vou. No. 5960

(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. 2120

Signature Donald R. MacKaven Title Acting Field Officer Date JUN 1 1962

Approved by OME Executive Officer or Alternate:

Signature Donald R. MacKaven Title Acting Field Officer Date JUN 1 1962

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

RECEIVED
Cert.-R.R.
MAY 2 1962
U.S. GEOL. SURV.
SPOKANE, WASH.

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

OPERATOR'S PROGRESS REPORT

For Month of April 1962 Docket No. OME 6086

Operator's Name A. O. Bartell Contract No. 14-23-090-2120

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							
Winzes							
Other Underground							
Drilling, Core-Diamond AX	1500	20	1007.5	$ 8,765.25	20 ft	1,007.5 ft	8,765.25
DIA. NonCore AX	200		185.1	1,073.58	—	185.1 ft	1,073.58
Drilling, Non-core-Diamond							
Rotary							
Churn							
Percussion							
Miscellaneous Assays	33						
Core Boxes	40	1	33	115.50	1	33	115.50
Roads and Trails	1570		1570	1,570.00	—	1,570 ft	1,570.00
Stripping							
Trenching							
Test Pitting							
Other Surface Work							
Initial Rehabilitation and Repairs							
Rehabilitation of Mine Workings							
New Buildings, Fixtures, etc.							
Operating Equipment Purchases							
Analytical Work							
TOTAL TO DATE *(per MME Form 60)*				$11,524.33			11,524.33

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 4/30/62 Operator A O Bartell

Per _____ Title owner

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 Donald R. Mackoven

Title Acting Field Officer
Government Representative

Date JUN 1 1962

(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- 61577

A. O. BARTELL, E. M.
REGISTERED PROFESSIONAL ENGINEER

5115 S. W. Northwood Ave.
Portland 1, Oregon

April 30, 1962

Mr. D. R. McLaren
Office of Minerals Exploration
South 157 Howard Street
Spokane 4, Washington

Sub: Narrative Report OME 6086 - 2120
Nisbet Quicksilver Mine

Dear Mr. McLaren:

As reported to you on the telephone earlier this month hole B3 was stopped at 339 feet.

Since my report dated January 17, 1962, I spent seven weeks at the drill site cementing and recementing to secure the caving ground above 331 feet. The hard rock encountered at 331 feet--which, it was hoped, marked the end of the unconsolidated ground--proved to be just a layer and the drill again entered caving ground at 336 feet. In spite of a heavy, 100% crankcase and gear oil drilling fluid, the drill ceased to advance and was jammed by the loose formation at 339 feet.

As can be seen on the accompanying sketch B3 had advanced into the area where contact with the Oak Grove vein should occur. If it had been even near the vein it is reasonable to expect the formation to be soaked and consolidated with mineralizing solutions. The core recovered was a pebbly mud with absolutely no evidence of mineralization. The hole or the vein or both have deviated. Further advance is not justified until other drill holes give more information on the attitude of the vein and until a drill with a headworks of sufficient size to accommodate at least AX casing is obtained.

While I have the drill on the site I intend to drill out under the creek into unknown ground to check for parallel veins and geological conditions. A 200 foot hole N 52° E @ 45° dip is planned. According to my contract, Art. 5 (c), I must submit a final report with a geological evaluation. The information to be gained by this proposed hole will be of value to such an appraisal. If you can wait until July 1st for the final report I will include the results of the new drilling. Please advise.

note

Respectfully submitted,

A. O. Bartell

A. O. Bartell

RECEIVED
Cert.-R.R.
MAY 2 1962

U. S. G. S.
SPOKANE, WASH.

OAB:JC

OME

A. O. BARTELL, E. M.
REGISTERED PROFESSIONAL ENGINEER
5115 S.W. Northwood Ave.
Portland 1, Oregon

OFFICIAL FILE COPY
O. M. E.
RECEIVED JAN 8 1962
DATE 1/8/62 Hect
CODE
5-74 500

December 21, 1961

Mr. D. R. McLaren
Office of Minerals Exploration
South 157 Howard Street
Spokane 4, Washington

Sub: Narrative Report OME 6086 - 2120
Nisbet Quicksilver Mine

Dear Mr. McLaren:

I am very sorry that these monthly reports continue to be a recitation of misfortune and requests for extension of the contract. The plain fact is that the drill that I have is just not adequate to expeditiously handle the very difficult caving quicksand conditions at depth. The drill is in good condition and is amply powered, but the headworks will not accommodate any larger than "E" casing. E rod and equipment are too small for pumping cement and the heavy drilling fluids that are necessary.

Cementing the way through the caving ground is my only choice, and this worrisome method has enlarged the hole to the point where rod vibration is almost an unsurmountable problem.

This last vein intersection is expected at any time. If the projection of the vein was true, intersection should have been at 328 feet. I am now at 334 feet.

Considering the expense of this hole and the probable proximity of intersection, I must continue to worry it down. Unless there is an unexpected change for the better in both the weather and the drilling conditions, I probably am not going to be able to complete this hole by December 31st.

I hereby request an extension of the contract date.

Respectfully submitted,

A. O. Bartell

A. O. Bartell

AOB:mb

see R-I reply 1/4/62
Folder #1

A. O. BARTELL, E. M.
REGISTERED PROFESSIONAL ENGINEER
5115 S.W. Northwood Ave.
Portland 1, Oregon

OFFICIAL FILE COPY
O. M. E.
RECEIVED NOV 24 1961

DATE	INITIALS	CODE
11/27	[illegible]	800
"	[illegible]	500
11/27	[illegible]	500

November 18, 1961

Mr. D. R. McLaren
Office of Minerals Exploration
South 157 Howard Street
Spokane 4, Washington

Subject: Narrative Report OME 6086 - 2120
Nisbet Quicksilver Mine

Dear Mr. McLaren:

I was able to spend only one week at drill site during the month of October.

Due to the difficulties in pumping a thick drilling fluid, a bit was burned and the diamonds lost in the hole. Chopping and washing to rid the hole of the diamonds caused caving at the 328 foot level, which will have to be cemented.

Respectfully submitted,

A. O. Bartell
mb

A. O. Bartell

AOB:mb

RECEIVED
NOV 20 1961
U. S. G. S.
SPOKANE, WASH.

A. O. BARTELL, E. M.
REGISTERED PROFESSIONAL ENGINEER
5115 S.W. Northwood Ave.
Portland 1, Oregon

OFFICIAL FILE COPY
O. M. E.
RECEIVED OCT 9 1961

DATE	INITIALS	CODE
10/9	[illegible]	800
"	[illegible]	500
	Nact	500

October 5, 1961

OME 6086
E 1120

Mr. D. R. McLaren
Office of Minerals Exploration
South 157 Howard Street
Spokane 4, Washington

Dear Mr. McLaren:

Subject: Narrative Report OME 6086-2120
Nisbet Quicksilver Mine

Thank you for your letter of September 29.

Caving conditions still are plaguing Hole B-3. Bottom of the hole is at 334 feet and still in the Warrendale Formation. The hole has been advanced through the 51 feet (since 283 feet) by cementing with Lumnite. Thirty-three sacks of cement have been used for twenty cement jobs at a cost of $4.00 per foot for cement alone.

Various types of drill mud have been tried. An emulsion of thick bentonitic mud and used motor oil which was experimented with last week shows the most promise. It is, however, difficult to get the cuttings to drop out of the goop that is the consistency of butterscotch pudding. I am shut down now awaiting a new cylinder and piston from the pump manufacturer.

Respectfully submitted,

A. O. Bartell
mb

A. O. Bartell

AOB:mb

OCT [illegible] 1961

A. O. BARTELL, E. M.
REGISTERED PROFESSIONAL ENGINEER
5115 S.W. Northwood Ave.
Portland 1, Oregon

OFFICIAL FILE COPY
RECEIVED JUL 1961
DATE
CODE

July 12, 1961

Subject: June Narrative Report
OME 6086, 2120
Nisbet Quicksilver Mine

Mr. D. R. McLaren
Office of Minerals Exploration
So. 157 Howard Street
Spokane 4, Washington

Dear Mr. McLaren:

Three weeks were spent at the drill site during the month of June. Two weeks were consumed in drilling Lumnite cement out of 320 feet of rods after a cement job that failed, and one week was spent in making a net gain of 5 feet in the same quicksand-type conditions heretofore described. Core has been recovered from 324 feet in Hole B3. This is not sufficient advance to justify a voucher.

I hereby request an extension of time on the contract to complete this hole. I believe that an intersection of the vein is important and justifies the difficulty of advance. Slickensides in the cored material indicate a heavily sheared zone. The footwalls of such clay shear zones are sufficiently often mineralized to justify continuation of this drill hole.

Since this is a fixed unit cost contract, the O.M.E. has very little to lose in joining my pursuance of this hole -- and perhaps much to gain. I urge that you continue the contract and grant an extension to September 31st.

Respectfully submitted,

A. O. Bartell

A. O. Bartell

AOB:mb

Cert. Mail
JUL 19 1961
R. R. R.

6 REFERENCE SLIP

OFFICE OF MINERALS EXPLORATION 6/16/61

f, Div. of Field Operations	DA	INITIALS
OME-6086 (Mercury) A. O. Bartell		
Nisbet Mine Clackamas County, Oregon		
Contract 2120		
Donald R. MacLaren D. R. MacLaren		
Acting Field Officer, Region	I	

Check items for action desired

_ Action	____	Reply for signature of			
_ Approval	____	Investigate		____	Surname
_ Comment	____	Recommendations		____	Signature
_ Conference	____	Rewrite		X	File
_ Instructions		Your information			

EMARKS:

Transmittal of Operator's narrative report for May 1961. There were no MME Forms 60 and 61 submitted with the subject narrative.

A. O. BARTELL, E.M.
REGISTERED PROFESSIONAL ENGINEER
5115 S.W. Northwood Ave.
Portland 1, Oregon

OFFICIAL FILE COPY
O. M. E.
RECEIVED JUN 19 1961

DATE	INITIALS	CODE
6/19	gad	VVO
6/19	[illegible]	800
[illegible]	[illegible]	500
6/20	[illegible]	500

June 5, 1961

Subject: May Narrative Report
OME 6086, 2120
Nisbet Quicksilver Mine

Mr. D. R. McLaren
Office of Minerals Exploration
So. 157 Howard Street
Spokane 4, Washington

Dear Mr. McLaren:

I have no footage advance to report for the month of May. The caving situation described in the Narrative Reports to you for March and April is still causing trouble.

The formation is impervious to grout, even under pressure, because of the contained clay. It can be drilled and cored, but the wash of the drill water dissolves the clay around the drill string releasing gravel and boulders which stop the drilling.

The literature on the subject has been perused and all possible methods have been discussed with qualified experts. Various suggestions have been tried, and I believe the solution is at hand.

The remaining caved area, some six feet in length, is now being grouted. As soon as this is stabilized, drilling will proceed with a fairly thick bentonitic drilling mud. Experimentation indicates that a fluid of the consistency of heavy cream will hold the hole open and cause little wash and solution of the clay. Pumping, plumbing and sludge collection has been changed to accommodate the thick drill fluid.

I believe I can finish the contract by June 31st. If it appears that I cannot make the deadline, I shall phone you concerning a possible extension.

My very best regards,

A. O. Bartell
mb

A. O. Bartell

AOB:mb

RECEIVED
Cert Mail
JUN 13 1961
R. R. R.
SPOKANE, WASH.

Sch 1638

OME FORM 60
SEPT. 1959

RECEIVED
cert. mail
MAY 11 1961
R.R.R.

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

Docket No. OMX 6086
Contract No.
14-23-090- 2120
Contract Amount $ 14,920
Gov't. Participation % 50 $ 7,460
Mineral(s) Mercury

OPERATOR'S MONTHLY VOUCHER

For Month of April, 1961

Operator's Name A. O. Bartell
Address 5115 S.W. Northwood Ave., Portland 1, Ore.

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						
Drifting						
Crosscutting						
Drilling AX Core	226.20	8,365.05	8,591.25			
AX-Non-Core	-.--	1,073.50	1,073.50			
Access Road	-.--	1,570.00	1,570.00			
Core Boxes	3.50	108.50	112.00			
(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	229.70	11,117.13	11,346.83	229.70	11,117.13	11,346.83

EXTRA COPY
O. M. E
RECEIVED MAY 22 1961

DATE	INITIALS	CODE
	to lead	110
		140
5/23	SPH	500

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

Date 5/8/61 *Payee A. O. Bartell

Per _____ Title Owner

* 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:

$ 114 85

Signature DAS
(Authorized Certifying Officer)

Date 5/18/61 Vou. No. 4460

(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. 2120

Signature D.R. MacKaren Title Acting Field Officer, Region I Date MAY 12 1961

Approved by OME Executive Officer or Alternate:

Signature D.R. MacKaren Title Acting Field Officer, Region I Date MAY 12 1961

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

RECEIVED
Cert. mail
MAY 11 1961
R.R.
U.S.
SPOKANE, WASH.

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

OPERATOR'S PROGRESS REPORT For Month of April, 1961 Docket No. OIB-6036

Operator's Name A. O. Bartell Contract No. 14-23-090- 2120

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							
Winzes							
Other Underground							
Drilling, Core-Diamond AX	1500'	26'	987.5'	$8,591.25	26	987.5'	$8,591.25
AX Dia. Non-Core Rotary	200	--	195.1	1,073.50	—	195.1'	1,073.50
Drilling, Non-core-Diamond			1172.6				
Rotary							
Churn							
Percussion							
Miscellaneous Assays	33	--	--		—	—	
Coro Bosco	48	1	32	112.00	1	32	112.00
Roads and Trails	1570'	--	1570'	1,570.00	—	—	1,570.00
Stripping							
Trenching							
Test Pitting							
Other Surface Work							
Initial Rehabilitation and Repairs							
Rehabilitation of Mine Workings							
New Buildings, Fixtures, etc.							
Operating Equipment Purchases							
Analytical Work							
TOTAL TO DATE (per MME Form 60)				$11,386.83			$11,386.83

EXTRA COPY
O. M. E
RECEIVED MAY 22 1961

DATE	INITIALS	CODE

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 5/8/61 Operator A. O. Bartell

Per _____ Title Owner

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 D. R. McLaren

Title Acting Field Officer, Region I
Government Representative

Date MAY 12 1961

(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.

RECEIVED
MAY 1 5 1961
OFFICE OF THE SECRETARY
FISCAL SECTION

A. O. BARTELL, E.M.
REGISTERED PROFESSIONAL ENGINEER
3115 S.W. Northwood Ave.
Portland 1, Oregon

Narrative Report
April, 1961
OME 6086
Contract 2120

During the April period, Hole B3 was advanced only 26 feet. Bottom is now at 319 feet below the collar.

The formation is still an unconsolidated area of sand, boulders, and clay in the Warrendale agglomerate. Drilling can be advanced about five feet before wash of the drill water loosens the formation. Recovering the drill string is sometimes difficult.

Pressure grouting is solving the problem, but progress is necessarily slow.

Respectfully submitted,

A. O. Bartell
mb

A. O. Bartell

AOB:mb
Encls.

EXTRA COPY
O. M. E
RECEIVED MAY 1961
DATE

Corr. Mail
MAY 11 1961
R. R. R.
SPOKANE, WASH.

MME FORM 60
SEPT. 1959

RECEIVED
MAY 1 1961
U.S.G.S.
SPOKANE, WASH.

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

1582

Docket No. OME 6086
Contract No. 14-23-090-2120
Contract Amount $ 14,920
Gov't. Participation % 50 $ 7,460
Mineral(s) Mercury

OPERATOR'S MONTHLY VOUCHER

For Month of March, 1961

Operator's Name A. O. Bartell
Address 5115 S.W. Northwood Av., Portland 1, Ore.

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						
Drifting						
Crosscutting At Core	939.60	7,425.45	8,365.05	939.60	7,425.45	8,365.05
Drilling At Non-Core	1073.58	-.--	1,073.58	1073.58	-.-	1073.58
Access Road	-.--	1,570.00	1,570.00	--	1570.00	1570.00
Core Boxes	14.00	94.50	108.50	14.00	94.50	108.50
(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	2027.18	9,089.95	11,117.13	2027.18	9089.95	11,117.13

EXTRA COPY
O. M. E
RECEIVED MAY 10 1961

DATE	INITIALS	
5/10	JJ	170
		170
"	Hoch	500

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

Date 4/5/61 *Payee A O Bartell

Per _____ Title Owner

* 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:

$ 1,013.59 R

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. 2120

Signature D.R. Macharen Title Acting Field Officer, Region I Date MAY 2 1961

Approved by OME Executive Officer or Alternate:

Signature D.R. Macharen Title Acting Field Officer, Region I Date MAY 2 1961

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
SEP 3. 1959

RECEIVED
Vincent Mail
MAY 1 1961
R. A. R.

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

OPERATOR'S PROGRESS REPORT For Month of March, 1961 Docket No. OME-6086

Operator's Name A. O. Bartell Contract No. 14-23-090- 2120

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							
Winzes							
Other Underground							
Drilling, Core-Diamond AX	1300	108	961.5	8,365.05	107.9	961.5	8,365.05
Drilling, Non-core-Diamond AX Rotary Core	200'	185.1	185.1	1,073.58	185.1	185.1	1,073.58
Drilling, Non-core-Diamond	500		77.46				
Rotary							
Churn							
Percussion							
Miscellaneous Assays	33	-.-	-.-				
Core Boxes	48	4	31	108.50	4	31	108.50
Roads and Trails	1570'	-.-	1570'	1,570.00			1,570.00
Stripping							
Trenching							
Test Pitting							
Other Surface Work							
Initial Rehabilitation and Repairs							
Rehabilitation of Mine Workings							
New Buildings, Fixtures, etc.							
Operating Equipment Purchases							
Analytical Work							
TOTAL TO DATE *(per MME Form 60)*				11,117.13			11,117.13

REMARKS

(Continue on back)

REMARKS
123.4 ft. non-core was vouchered for Feb. but disallowed. Amend #2 now permits this amt. to be allowed and it is included in the 185.1 ft. claimed and approved above

(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 4/5/61 Operator A O Bartell

Per _____ Title Owner

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 D R Macharen

Title Actg Field Officer Region I OME
Government Representative

Date MAY 2 1961

(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.

A. O. BARTELL, E. M.
REGISTERED PROFESSIONAL ENGINEER
5115 S.W. Northwood Ave.
Portland 1, Oregon

April 11, 1961

EXTRA COPY
O. M. E
RECEIVED MAY 10 1961
DATE | INITIALS | CODE

Mr. T. R. MacLaren
Acting Field Officer, OME
Region I
So. 157 Howard Street
Spokane 4, Washington

Dear Mr. MacLaren:

During the March period Hole B-3 was advanced from 185 feet to 293 feet by AX core drilling. The formation changed from black basalt to Warrendale agglomerate at 251 feet.

At 283 feet an unconsolidated boulder condition was found. The wash of drilling water allowed the boulders to shift after the drill had passed through, locking the steel and closing the hole at that area. After considerable effort the steel was recovered.

Cementing equipment was fabricated, and cementing has been attempted three times, using Lumnite cement. The situation has improved after each cementing, but there is one very large boulder, perhaps several tons in weight, that is still mobile and causing trouble. More than two weeks of time has been lost in attempting to stabilize this area.

Respectfully submitted,

A. O. Bartell
mb

A. O. Bartell

AOB:mb
Encls.

Via Cert Mail
MAY 1 1961
R. R. R.
U.S.G.S.
SPOKANE, WASH.

RECEIVED
Via Cert Mail
APR 12 1961
R. R. L.
SPOKANE, WASH.

OFFICIAL FILE COPY
O. M. E
RECEIVED MAR 29 1961

DATE	INITIALS	
3/29	Cag	
"		210
3/30		110
		500
3		

So. 157 Howard Street
Spokane 4, Washington
March 13, 1961

Memorandum

To: Chief, Fiscal Section
Division of Administrative Services
Office of the Secretary

From: Acting Field Officer, GMS, Region I

Subject: GMS-6086 (Mercury)
A. O. Burtell
Hibbet Mine
Clackamas County, Oregon
Contract 2320
Appropriation Symbol: GMS 14x0108

The Operator has claimed 376.9 feet of AX drilling for February. However, 123.4 feet was drilled with a non-coring bit and cannot be approved for payment.

See Amend

The total approved drilling for the month is therefore 253.5 feet at $8.70 per foot or $2,205.45. The claim of 7 core boxes at $3.50 each or $24.50 is correct and is approved for payment.

D. M. Shelarva

MME FORM 60
SEPT. 1959

RECEIVED
MAR 9 1961
U.S.G.S.
WASH.

Sch. 1300

Via Cert. Mail

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

Docket No. OME 6086
Contract No.
14-23-090- 2120
Contract Amount $ 14,920
Gov't. Participation % 50 $7,460
Mineral(s) Mercury

OPERATOR'S MONTHLY VOUCHER

For Month of February, '61

Operator's Name A. O. Bartoll
Address 5115 S.W. Northwood Ave., Portland, Ore.

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						
Drifting						
Crosscutting						
Drilling AX	3279.03	5220.00	8499.03	2205.45	5,220.00	7,425.46
Access Road	0.00	1570.00	1570.00		1,570.00	1,570.00
Gore Taxes	24.50	70.00	94.50	24.50	70.00	94.50
(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	3303.53	6860.00	10,163.53	2229.95	6,860.00	9,089.95

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

Date 3/5/61 *Payee A. O. Bartoll

Per A O Bartoll Title Owner

* 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: See suspension attached

$ 1114 97

Signature OK
(Authorized Certifying Officer)

Date 3/21/61 Vou. No. 3743

(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. _____

Signature (Sgd) D. R. MacLaren Title Acting Field Officer Reg I Date 3/13/61

Approved by OME Executive Officer or Alternate:

Signature (Sgd) D. R. MacLaren Title Acting Field Officer Reg I Date 3/13/61

OPERATOR'S MONTHLY REPORT

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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

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MME FORM 61
SEPT. 1959

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

OPERATOR'S PROGRESS REPORT For Month of February, 1961 Docket No. OME-6066

Operator's Name A. O. Bartell Contract No. 14-23-090- 2120

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							
Winzes							
Other Underground							
Drilling, Core-Diamond AX	1500'	376.9	976.9	18400.03	253.5	853.5	7,425.45
Rotary							
Drilling, Non-core-Diamond							
Rotary							
Churn							
Percussion							
Miscellaneous Assays	33	-0-	-0-				
Core Boxes	48	7	27	94.50	7	27	94.50
Roads and Trails	1570'	-0-	1570'	1570.00		1570	1,570.00
Stripping							
Trenching							
Test Pitting							
Other Surface Work							
Initial Rehabilitation and Repairs							
Rehabilitation of Mine Workings							
New Buildings, Fixtures, etc.							
Operating Equipment Purchases							
Analytical Work							
TOTAL TO DATE *(per MME Form 60)*				$ 10,163.53			9,089.95

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 3/5/61 Operator A. O. Bartell

Per A O Bartell Title Owner

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

Title
Government Representative

Date

(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
Office of the Secretary
Accounting Unit
Washington

ADMINISTRATIVE SUSPENSION STATEMENT

Name and Address of Payee: A. O. Bartell
5115 S. W. Northwood Ave.
Portland, Oregon

Amount Claimed:	Differences (Explained Below)	Amount Approved
3,303.53	1,073.58	2,229.95 Govt. Part. 50% 1,114.97
Bu. Voucher No.	Payee's Invoice No.	Period
3743	Contract No. 2120	February 1961

EXPLANATION

Amount claimed for drilling - 376.9 ft. @8.70		3,279.03
Amount allowed - 253.5 @8.70		2,205.45
	Difference	1,073.58

123.4 feet drilled with a non-coring bit per D. R. MacLaren

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

Suspension made by:

(Sgd.) Opal M. Alexander

Signature

Assistant Chief, Accounting Unit

Title

74165

A. O. BARTELL, E.M.
REGISTERED PROFESSIONAL ENGINEER
5115 S.W. Northwood Ave.
Portland 1, Oregon

Narrative Report
February, 1961
OME 6086
Contract 2120

During this period, drill hole A1 was advanced from 100 feet to 148 feet in depth. It passed through the vein zone and into basalt country rock as shown on the attached cross section log.

Drill hole A2 was advanced from 200 feet to 251 feet, passed through the Oak Grove vein and into the Warrendale formation. The Warrendale core shows a tuffaceous agglomerate identical to that found in the stream bed at a much higher elevation (1800') at the falls at the west end of the Oak Grove claim. It is described by Meredith Sheets in his thesis study of the area, and is quoted in my report "A Proposal For Exploration of the Nisbet Quicksilver District", page 15. file

Drill hole B1 was drilled from 0 to 154 feet through two vein zones separated by a "horse" of relatively unaltered basalt.

The cores from the vein zone penetrated by all three holes showed the usual basalt breccia cemented and ribbed with calcite and minor amounts of pyrite and silica. Cinnabar was occasionally visible, but was not found in amounts sufficient to justify an assay.

Hole B3 is being drilled vertically and should reach the Oak Grove vein at about 350 feet in depth. At this writing it is at 185 feet and has been drilled AX size, non-core. It will be finished AX core. The non-core drilling footage has been apportioned by 2/3, per our discussion before listing on the attached MME Form 61.

Actual footage is as follows:

					Units
AX core	Hole A1	- 100 feet	to 148 feet	-	48 feet
" "	Hole A2	- 200 "	" 251.5 "	-	51.5 "
" "	Hole B1	- 0 "	" 154 "	-	154 "
AX non-core	Hole B3	- 0 "	" 185 "	-	123.4 "
			738.5		

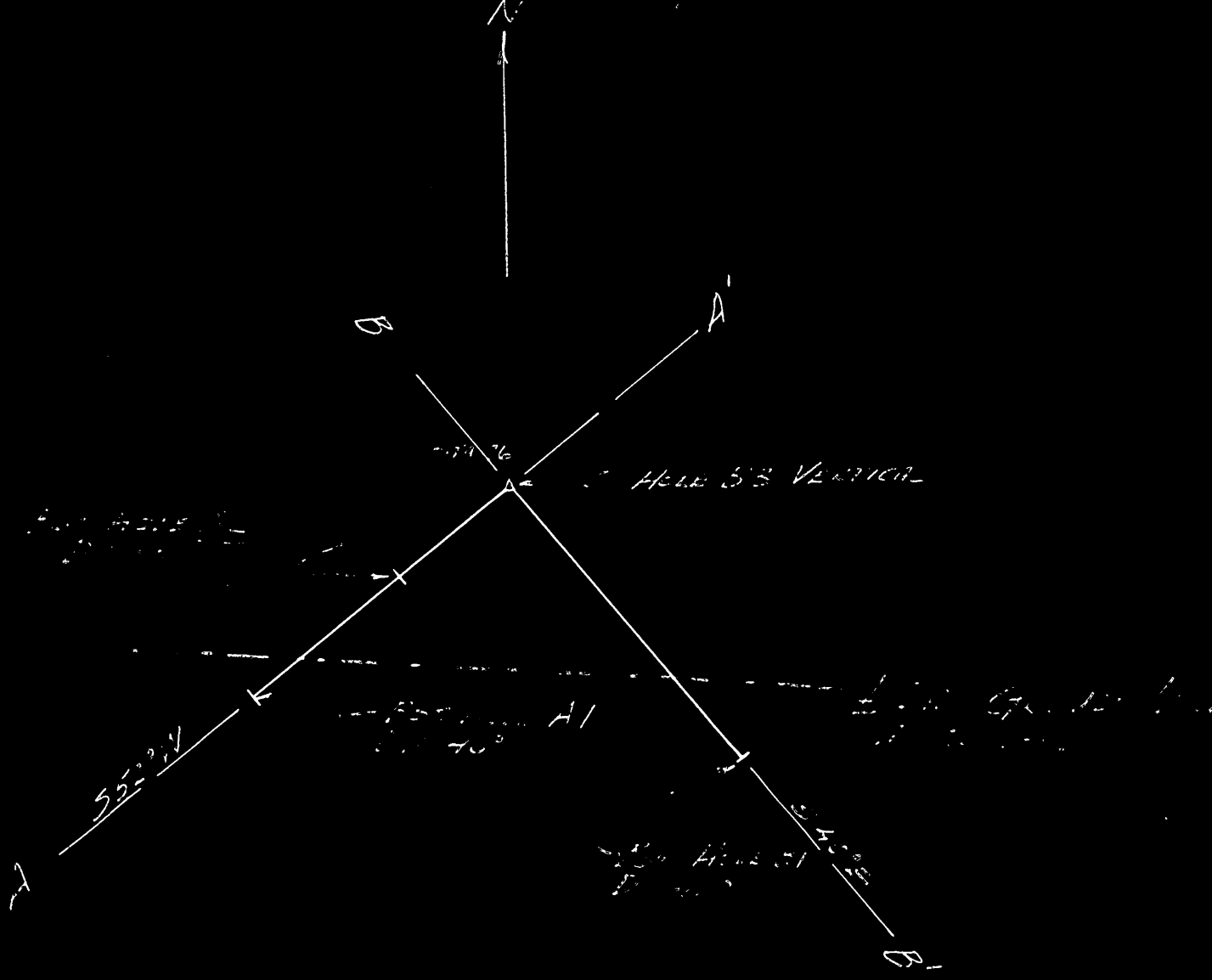
The weather has, at times, made the job hazardous and costly. Flood records have been exceeded the second time this winter, as the accompanying pictures show. The "close-up" is of the drill in the torrent some 8 inches after the peak. We lost nearly a week of time because of this flood.

Respectfully submitted,

A. O. Bartell
mb

A. O. Bartell

AOB:mb
Attach.



OAK GROVE VEIN, PEAK

[illegible] COUNTY [illegible]

SCALE 1" = 50' 1/5/71

A. O. BARTELL, E. M.
REGISTERED PROFESSIONAL ENGINEER

Nisbet Mine

RECEIVED
JAN 9 1961
U. S. G. S.
SPOKANE, WASH.

OME-6086

A. O. BARTELL, E. M.

REGISTERED PROFESSIONAL ENGINEER

MME FORM 60
SEPT. 1959

RECEIVED
FEB 8 1961
U S G.S.
SPOKANE, WASH.

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

Sch 1113

OPERATOR'S MONTHLY VOUCHER

For Month of January, 1961

Docket No. OME-6086
Contract No. 14-23-090-2120
Contract Amount $14,920
Gov't. Participation %50 $ 7,460.
Mineral(s) Mercury

Operator's Name A. O. Bartell
Address 5115 S.W. Northwood, Portland, Oregon

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 AX	$2610.00	$2610.00	$ 5220.00			
Access Road	-0-	1570.00	1570.00			
Core Boxes	35.00	35.00	70.00			
(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	$ 2645.00	$ 4215.00	$ 6860.00	2645.00	4215.00	6860.00

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

Date Feb. 5, 1961 *Payee A. O. Bartell

Per A O Bartell Title Owner

* 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:

$ 1322.50

Signature Oa
(Authorized Certifying Officer)

Date 2/14/61 Vou. No. 3276

(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. 2120

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.

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- 61579

MME FORM 61
SEPT. 1959

RECEIVED
FEB 8 1961

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

OPERATOR'S PROGRESS REPORT For Month of January, 1961 Docket No. OME-6086

Operator's Name A. O. Bartell Contract No. 14-23-090-2120

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							
Winzes							
Other Underground							
Drilling, Core-Diamond AX	1500'	300'	600'	$ 5220.00			
Rotary							
Drilling, Non-core-Diamond							
Rotary							
Churn							
Percussion							
Miscellaneous Assays	33	-0-	-0-				
Core Boxes	48	10	20	70.00			
Roads and Trails	1570'	-0-	1570'	1570.00			
Stripping							
Trenching							
Test Pitting							
Other Surface Work							
Initial Rehabilitation and Repairs							
Rehabilitation of Mine Workings							
New Buildings, Fixtures, etc.							
Operating Equipment Purchases							
Analytical Work							
TOTAL TO DATE *(per MME Form 60)*				$ 6860.00			

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 Feb. 5, 1961 Operator A. O. Bartell

Per A. O. Bartell Title Owner

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

Title
Government Representative

Date

(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.

A. O. BARTELL, E.M.
REGISTERED PROFESSIONAL ENGINEER

Narrative Report
January, 1961
OME 6086
Contract 2120

Diamond core drill holes 76-A1 and 76-A2 were drilled at Station 76 on course and depth shown on Figures 2 and 3 of Contract OME-6086. A cross section sketch is attached showing the log.

Hole A1 which was drilled at an angle of 46° intersected the Oak Grove vein at 88.5 feet as predicted. It was still in the vein at 100 feet. The vein material is a brecciated basalt altered light gray in color and cemented solidly with calcite, silica, and several percent pyrite. Within this brecciated vein zone are solid calcite ribs up to 2 feet in width. This is the type of vein material that has been productive in the surface workings, but it did not show significant cinnabar at the point of drill hole intersection. It is recommended that this hole be drilled further to examine the full width of the vein.

Hole A2, drilled on the same course as A1, at an angle of 80°, was expected to intersect the Oak Grove vein at 155 feet. Small calcite veinlets were intersected at various depths as shown on the attached log, but no important vein zone was found as in hole A1.

It is possible that the Oak Grove vein has steepened in dip somewhere below the intersection with hole A1. In this event, proposed drill hole A3 would miss it entirely. It is recommended that hole A2 be extended until intersection is made, or at most, another 100 feet.

Both drill holes have shown the formation to be basalt. It is the same massive, brickbat-fractured, black basalt found as bedrock in the stream. Fractures in the basalt have been cemented with calcite, silica, and pyrite. No Warrendale formation has yet been encountered.

Drilling was all in AX size; core recovery was excellent.

Respectfully Submitted,

A. O. Bartell

A. O. Bartell

AOB:mb
Attach.

RECEIVED
FEB 8 1961
U. S. G. S.
SPOKANE, WASH.

RECEIVED
FEB 8 1961
U. S. G. S.
SPOKANE, WASH.

Sch 974

MME FORM 60
SEP 5, 1959

RECEIVED
Cert. Mail
JAN 20 1961
R. R. S. G. S.
SPOKANE, WASH.

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

Docket No. OEB 6006
Contract No. 14-23-090-2120
Contract Amount $ ~~14,920~~
Gov't. Participation % 50 $ 7,460
Mineral(s) ~~Mercury~~

OPERATOR'S MONTHLY VOUCHER

For Month of Dec., 1960

Operator's Name A. O. BARTELL, E. M.
Address ~~3115 S. W. NORTHWOOD AVE, PORTLAND 1, OREGON~~

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						
Drifting						
Crosscutting						
Drilling AX	$ 2244.60	$ 365.40	$ 2610.00			
Access Road	-0-	1570.00	1570.00			
Core Boxes	20.00	7.00	35.00			
(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	$ 2272.60	$ 1942.40	$ 4215.00	2272.60	1942.40	4215.00

EXTRA COPY
O. M. E
RECEIVED
JAN 18 1961
DATE | MILS | CODE
1/17 | | 110
1/19 | Acct. Stmt | 120
| | 100

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

Date 1/5/61 *Payee

Per A O Bartell Title Owner

* 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:

$ 1136.30

Signature Bal
(Authorized Certifying Officer)

Date 1/18/61 Vou. No. 2896

(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. _____

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.

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- 61579

MME FORM 61
SEPT. 1959

RECEIVED
JAN 9 1961
U.S.G.S.
SPOKANE, WASH.

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

OPERATOR'S PROGRESS REPORT For Month of Dec., 1960 Docket No. OME 6086

Operator's Name A. O. BARTELL, E. M.
~~5115 S. W. NORTHWOOD AVE.~~
~~PORTLAND 1, OREGON~~

Contract No. 14-23-090- 2120

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							
Winzes							
Other Underground							
Drilling, Core-Diamond AX	1500'	258'	300'	$2610.00			
Rotary							
Drilling, Non-core-Diamond							
Rotary							
Churn							
Percussion							
Miscellaneous Accaya	33	-0-	-0-				
Coro Boxes	48	8	10	35.00			
Roads and Trails	1570'	-0-	1570'	1570.00			
Stripping							
Trenching							
Test Pitting							
Other Surface Work							
Initial Rehabilitation and Repairs							
Rehabilitation of Mine Workings							
New Buildings, Fixtures, etc.							
Operating Equipment Purchases							
Analytical Work							
TOTAL TO DATE *(per MME Form 60)*				$4215.00			

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 1/5/61 Operator A. O. Bartell

Per A O Bartell Title Owner

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

Title
Government Representative

Date

(INSTRUCTIONS ON REVERSE)

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.

A. O. BARTELL, E.M.
REGISTERED PROFESSIONAL ENGINEER
5113 S.W. Northwood Ave.
Portland 1, Oregon

January 6, 1961

Mr. D. R. MacLaren
Acting Field Officer, OME
Region I
So. 157 Howard Street
Spokane 4, Washington

Narrative Report, Dec., 1960
OME 6086
Contract 2120

Dear Mr. MacLaren:

Diamond Drill Hole Y on the Yew Tree vein was finished from 42 feet to 150 feet. Drill Hole C on the Cedar Tree vein was completed from 0 to 155.5 feet. The Yew Tree, Cedar Tree and Falls veins were intersected approximately as expected and as shown on the accompanying log. The country rock to depth was hard basalt. This was totally unexpected. From the evidence of the surficial geology and the log of the diamond drill holes of the Lake Harriet Dam, the Warrendale formation should have been reached in less than 50 feet. The writer would like to complete drilling at Station 76 before venturing any theories.

The veins, where intersected at depth were megascopically identical in mineralization to the surface exposures, except pyrite was common. They were a hard calcite silica ribbon mixture showing occasional stilbite crystals in cavities. Pyrite, which is rare in occurrence on the surface, was common in the basalt country rock, and in the vein material would occasionally comprise as much as two to four percent of the core. The core showed that there was usually a selvage of a few inches of light green-gray altered basalt on both sides of the veins. No cinnabar was encountered in either drill hole. The basalt, which is the typical gray-black country rock of the area, contained frequent amygdules of calcite-silica near the top of the drill holes, but these were infrequent at depth.

The drill holes were completed in AX size. Core recovery was excellent. The drill rod slipped easily into the holes, indicating they were drilled reasonably true to course.

The drill has been moved to Station 76, bolted to bedrock, and is ready for drilling.

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Key to Enclosed Pictures:

1. Road at creek across from drill Station Y.

2. Drill Station Y.

3. Drill Station C.

4, 5, 6, 7, 8, 9, 10. Portions of road to drill Station 76.

11. Drill at Station 76.

Sincerely,

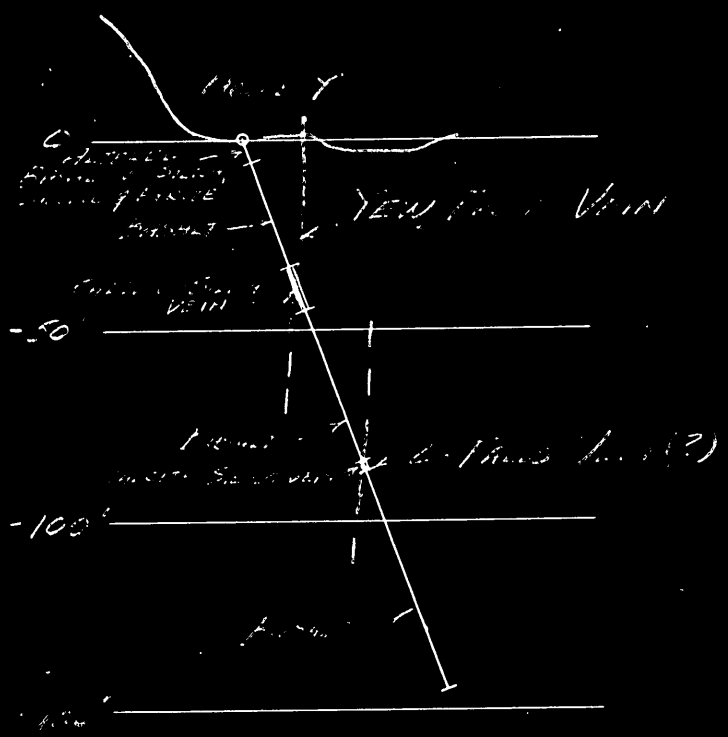
A. O. Bartell

AOB:mb
Encls.

PLAN & SECTION VIEWS

HOLE 1, N17E

HOLE 6



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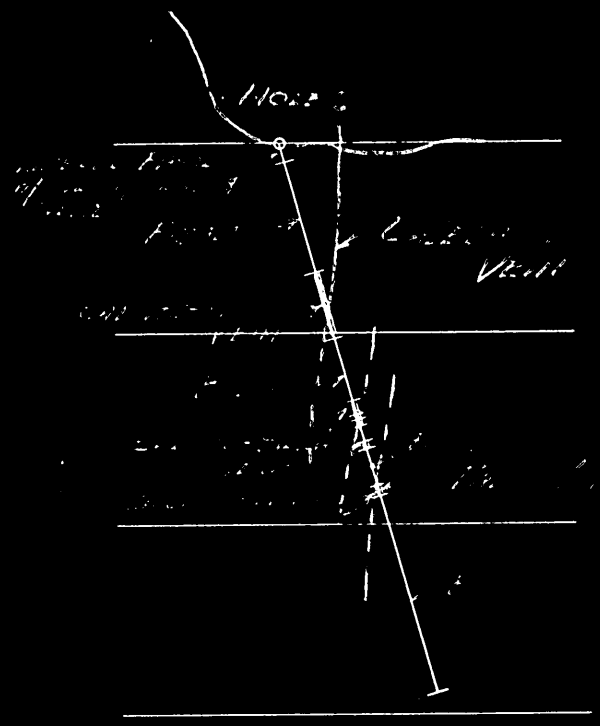

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JAN 9 1991
U.S.G.S.
SPOKANE, WASH.

MME FORM 60
SEPT. 1959

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DEC 9 1960
U.S. GEOLOGICAL SURVEY
PORTLAND

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

DEC 20 1960
OME

Docket No. OME-6086
Contract No. 14-23-[illegible] 2120
Contract Amount $ 14,920.00
Participation % 50 $7,460.00
Mineral(s) Mercury

OPERATOR'S MONTHLY VOUCHER

For Month of November, 1960

Operator's Name A. O. Bartell
Address 5115 S.W. Northwood Ave., Portland 1, Ore.

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						
Drifting						
Crosscutting						
Drilling AX	365.40	-0-	365.40			
Constr. Access Rd	1570.00	-0-	1570.00			
Core Boxes	7.00	-0-	7.00			
(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	1942.40	-0-	1942.40	194240	—	1942.40

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

Date 12/5/60 *Payee A O Bartell

Per _____ Title Owner

* 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:

$ 971.20

Signature _____ OR
(Authorized Certifying Officer)

Date 12/19/60 Vou. No. 2578

(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. 14-23-090-2120

Signature D.R. MacKaren Title Acting Field Officer, Region I Date DEC 12 1960

Approved by OME Executive Officer or Alternate:

Signature D.R. MacKaren Title Acting Field Officer, Region I Date DEC 12 1960

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

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DEC 9 1960
U.S. OPERATIONS
SPOKANE, WASH.

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

OPERATOR'S PROGRESS REPORT For Month of November, 1960 Docket No. OME-6086

Operator's Name A. O. BARTELL, E. M.
5115 S. W. NORTHWOOD AVE.
PORTLAND 1, OREGON

Contract No. 14-23-090-2120

OPERATION	FOR OPERATOR'S USE: UNITS	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							
Winzes							
Other Underground							
Drilling, Core-Diamond AX	1500'	42'	42'	$ 365.40			
Rotary							
Drilling, Non-core-Diamond							
Rotary							
Churn							
Percussion							
Miscellaneous Assays	33	-0-	-0-				
Core Boxes	48	2	2	7.00			
Roads and Trails	1570'	1570'	1570'	1570.00			
Stripping							
Trenching							
Test Pitting							
Other Surface Work							
Initial Rehabilitation and Repairs							
Rehabilitation of Mine Workings							
New Buildings, Fixtures, etc.							
Operating Equipment Purchases							
Analytical Work							
TOTAL TO DATE *(per MME Form 60)*				$ 1942.40			

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 12/5/60 Operator A. O. Bartell

Per _____ Title Owner

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 D. R. Mackaron

Title Acting Field Officer, Region I
Government Representative

Date DEC 12 1960

(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.

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A. O. BARTELL, E. M.
REGISTERED PROFESSIONAL ENGINEER
5115 S.W. Northwood Ave.
Portland 1, Oregon

December 8, 1960

Mr. D. R. MacLaren
Acting Field Officer, OME
Region I
So. 157 Howard Street
Spokane 4, Washington

Operation Narrative Report
OME-6086
Contract 2120, Nov., 1960

Dear Mr. MacLaren:

During the month of November access roads were completed to all drill sites and drilling was commenced at Station Y. Core size is AX; core recovery has been very good; the hole is at 42 feet below the collar and is still in basalt.

A week of poor weather slowed progress. The local weather observer's rain gauge overflowed at 4 plus inches in eight hours, so the true maximum rainfall was not recorded. Suffice to say that the water in the creek past the mine site rose eight feet, reportedly the highest since 1922. The diamond drill was rock-bolted to the bedrock in the creek and the engine removed. Although floodwater rose clear over the top of the drill, no damage was done.

Preliminary drilling log is as follows:

0 ft. - 5 ft. - highly altered basalt heavily mineralized with pyrite.

5 ft. - 42 ft. - basalt, occasional alteration but in general, gray-black, hard, and amygdaloidal. At 35 feet a 4 foot open vug was pierced. Calcite crystals lined the vug.

The drill on the job is a Sullivan 12 with hydraulic swivel head, hoist, and equipped with a 12 H.P. gasoline motor and a 10 H.P. electric motor. Accessories include: 400 feet of A rod, 300 feet of E rod, 100 feet of A casing, 100 feet of E casing,
1 - 5 ft. A rigid double tube core barrel
1 - 10 ft. A " " " " "
1 - 10 ft. A full swivel double tube core barrel
1 - 10 ft. A " " " " " " for low discharge, high recovery bit.

Sincerely,

A. O. Bartell

AOB:mb
Encls.

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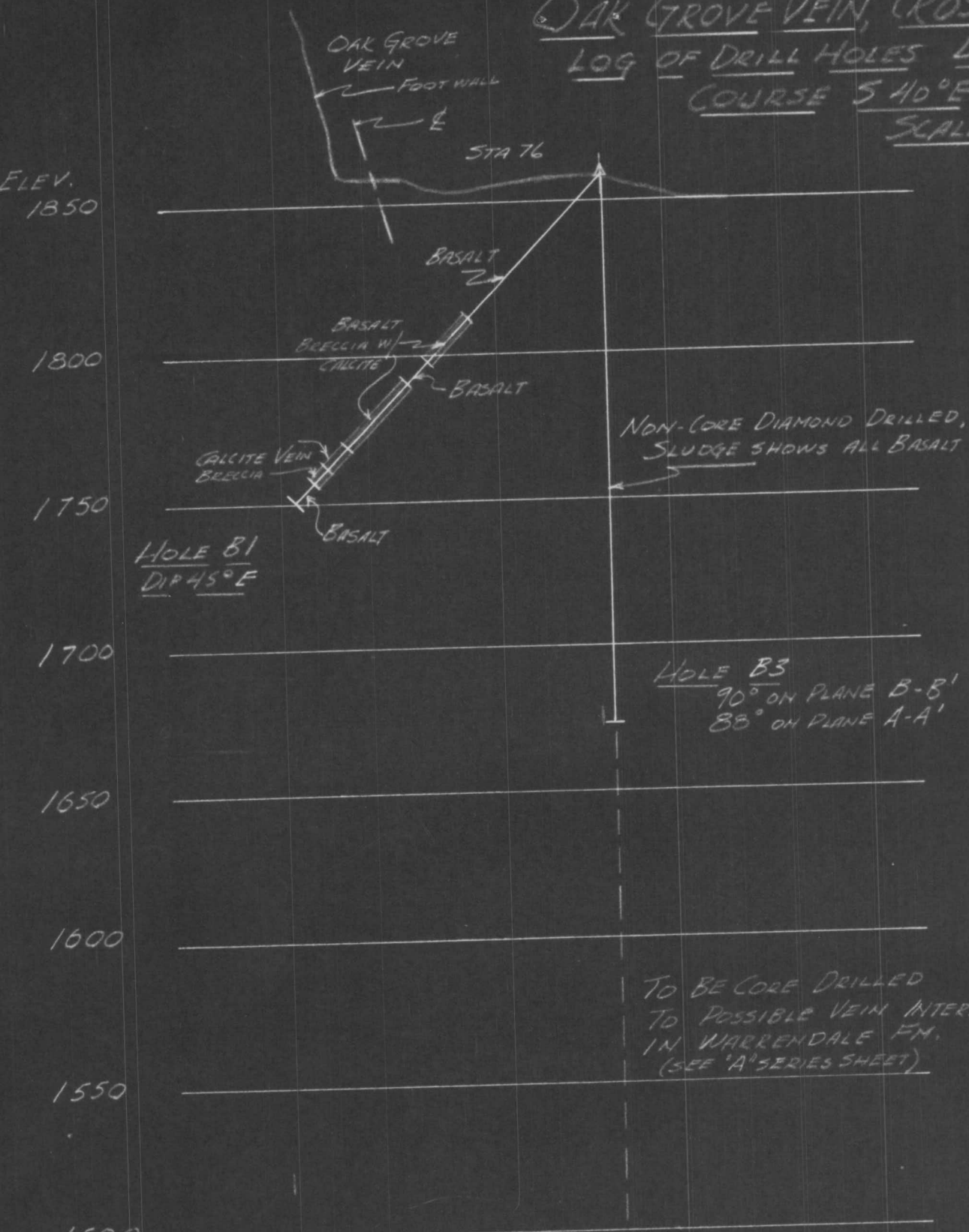
U. S. G. S.
SPOKANE, WASH.

OAK GROVE VEIN, CROSS SECTION
LOG OF DRILL HOLES B1 & B3
COURSE S 40° E
SCALE 1" = 50'



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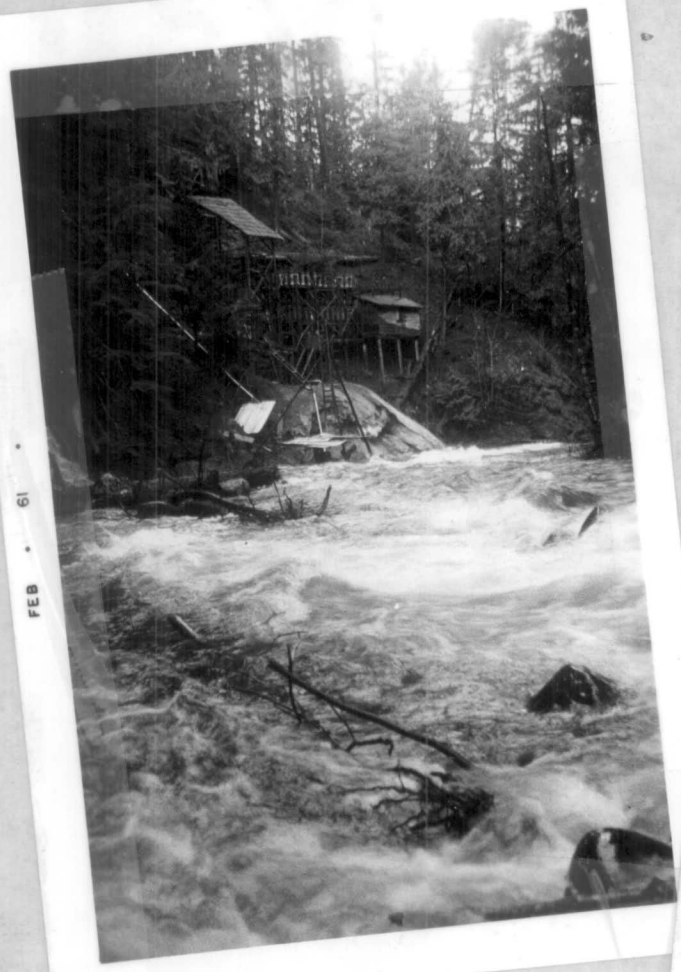
Burtell



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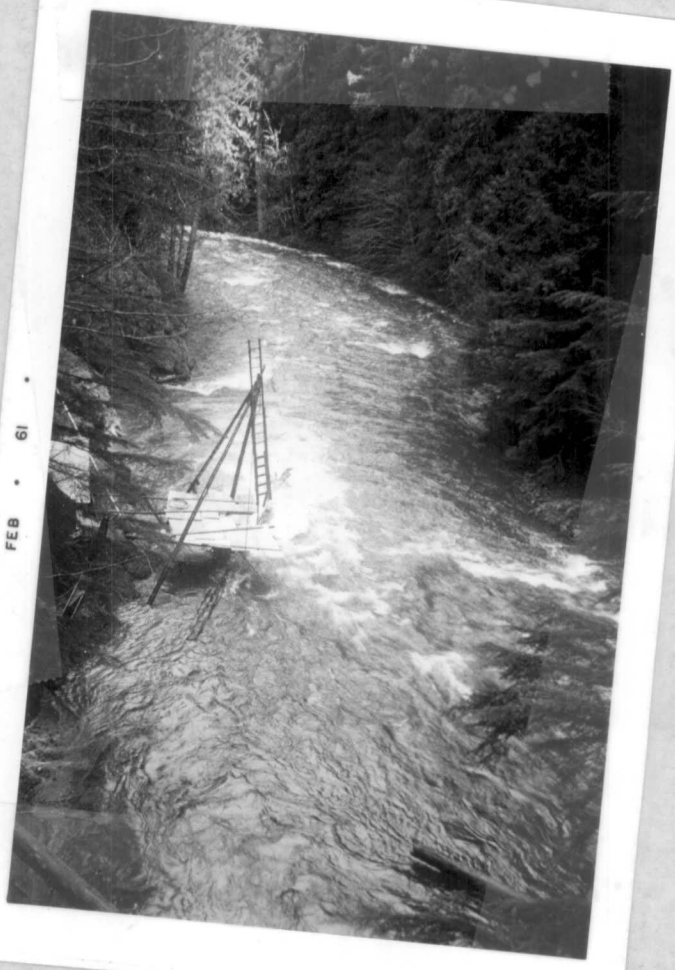

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FISCAL SECTION

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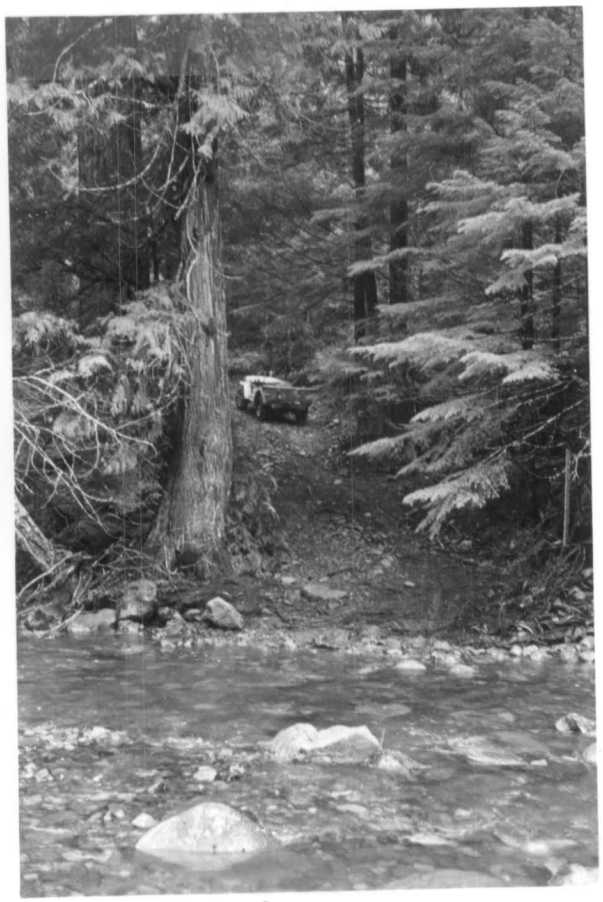

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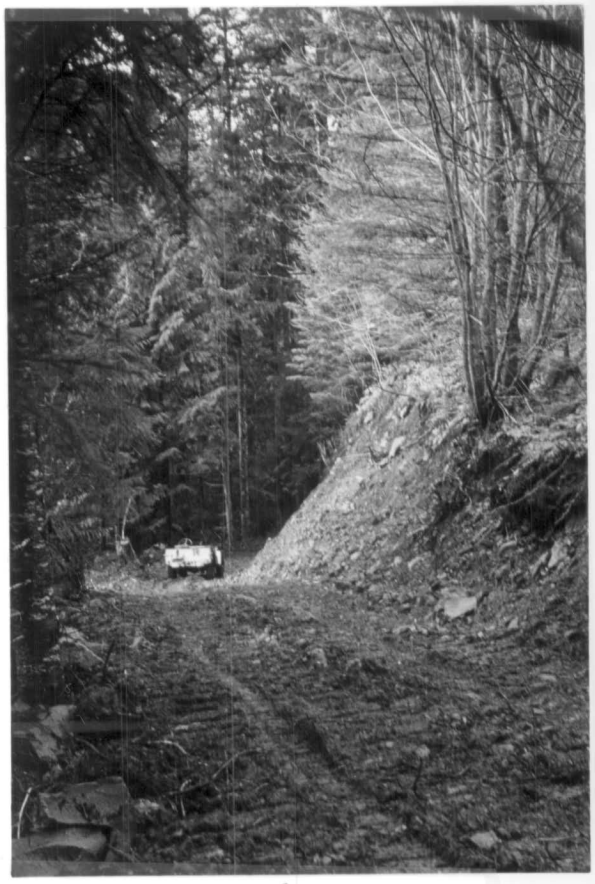

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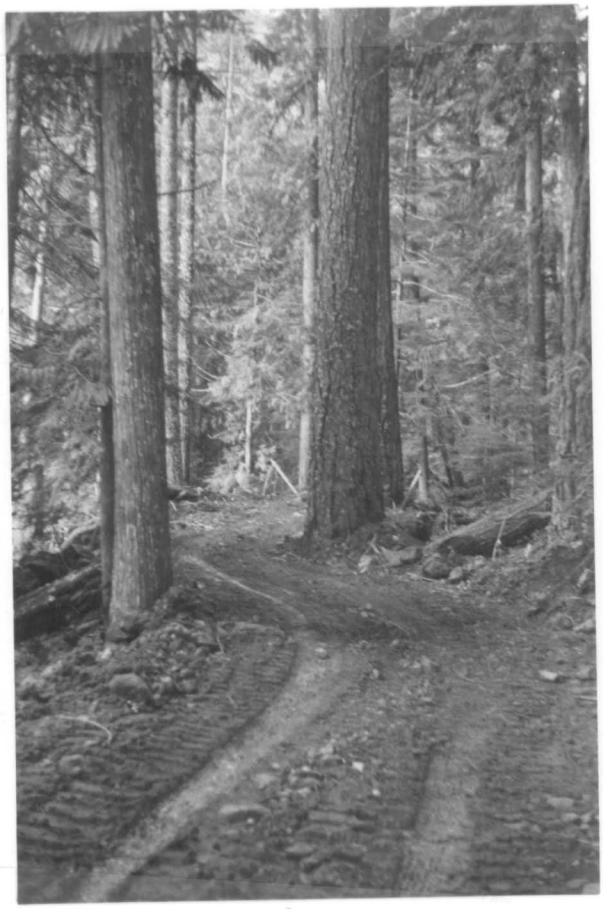

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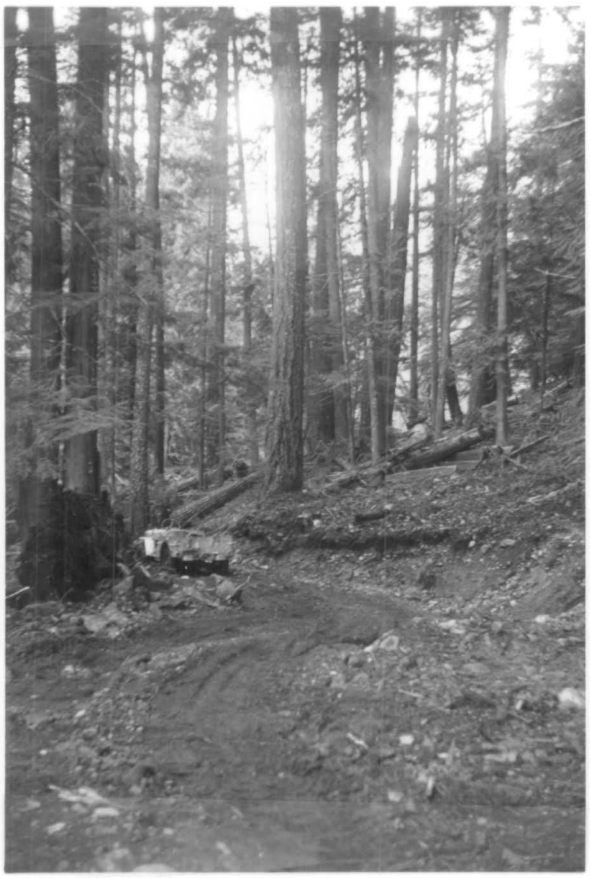

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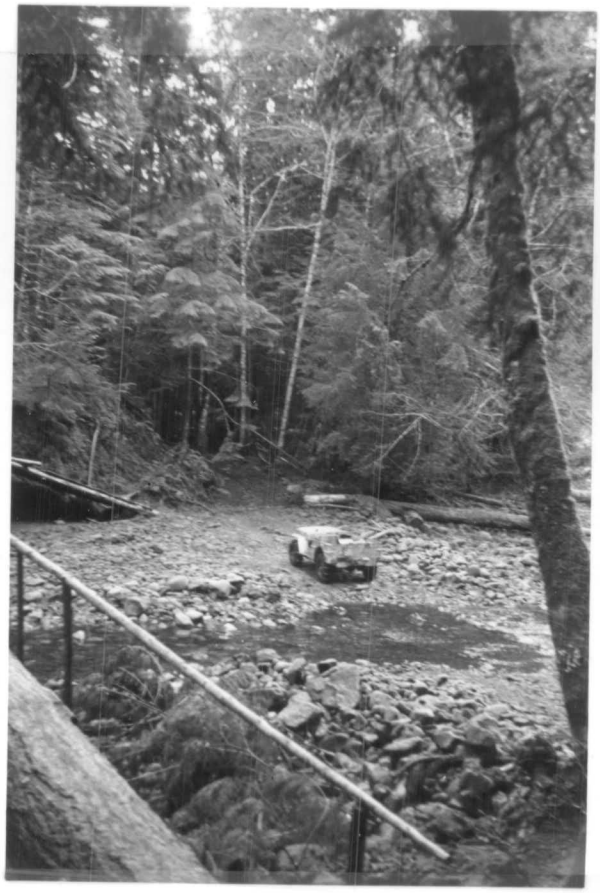

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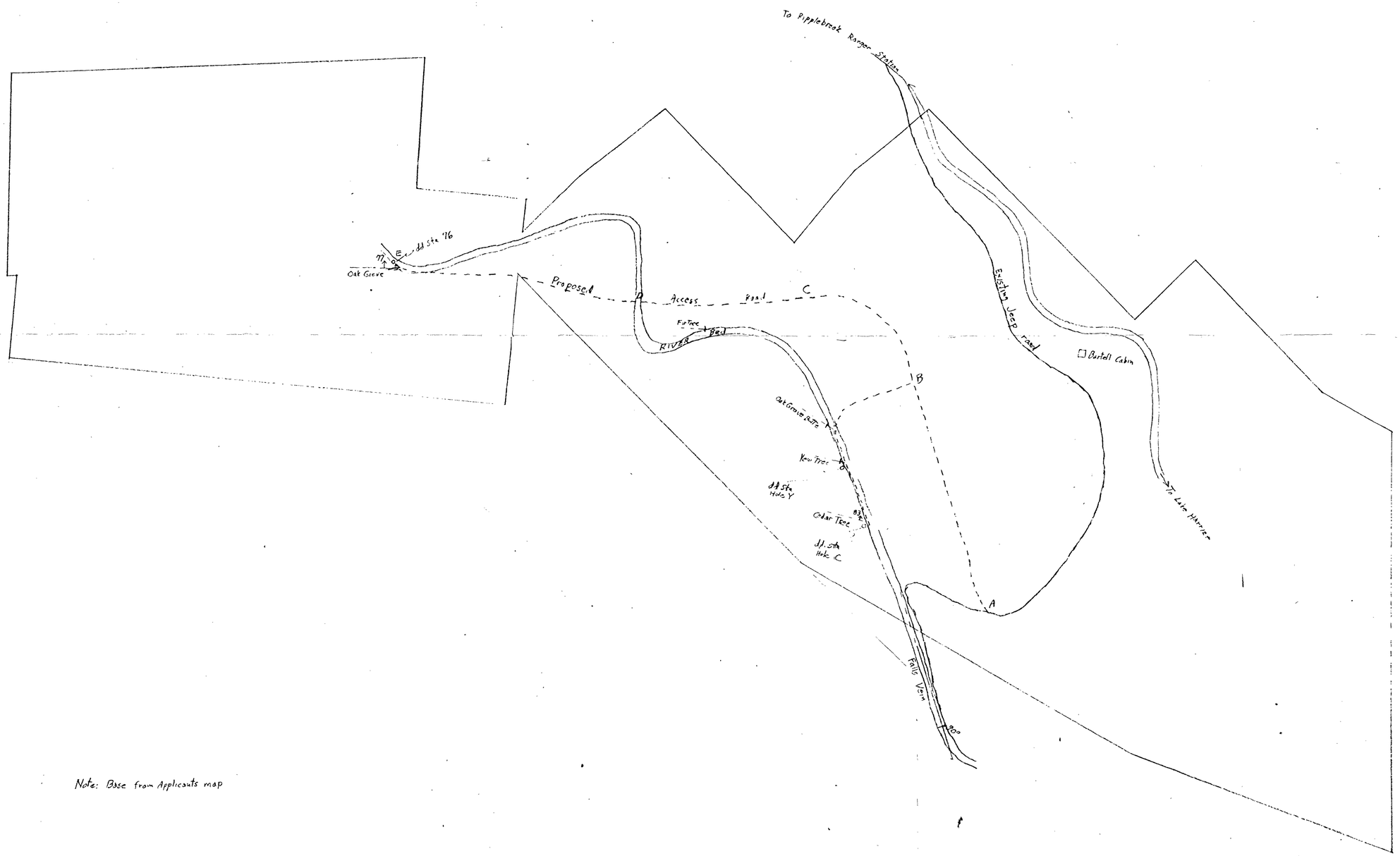
US Department of the Interior

Interim Examination Report

Docket No OME 6086



Note: Base from Applicants map

OFFICIAL FILE COPY
O. M. E.
RECEIVED MAR 17 1961
DATE | INIT

Sketch
Nisbet Claim Group
showing
Property Boundary, proposed access road location
and proposed diamond drill station
locations
A.O. Bartell, Nesbit Mine Clackamas County Oregon

Scale
200 100 0 200 Feet

D.R. Maclaren Pl. 1 March 1961

OME-6086