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DMEA
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DATE	INITIALS	CODE
10/25		220
		110
		700
10/28		

224 New Customhouse
Denver 2, Colorado

October 23, 1957

Memorandum

To: Chairman, Operating Committee, DMEA

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

Subject: Docket DMEA-3830 (Uranium) Contract Idm-E866,
Foothills Mining Company (Wright Lease)
Boulder County, Colorado - FINAL PAYMENT

Enclosed are two copies of a memorandum to T. A. Christensen, dated October 18, 1957, relative to final payment under the terms of the subject contract.

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

Enclosures

JDC:hmh

cc: DMEA, DFC
Corres.file, Reg. III
MF-104 file, Reg. III
Chron

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RECEIVED OCT 22 1957

DATE	[illegible]	CODE

224 New Customhouse
Denver 2, Colorado
October 18, 1957

Memorandum

To: T. A. Christensen

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

Subject: Docket DMEA-3830 (Uranium) Contract Idm-E366,
Foothills Mining Company (Wright Lease)
Boulder County, Colorado - FINAL PAYMENT

Reference is made to our memorandum of December 6, 1956, whereby we forwarded the final Form MF-104, Operator's Monthly Report and Voucher, for the month of September 1956, and requested that you withhold an amount of $400.00 from reimbursement to the Operator, pending possible additional work under the contract. No additional work was authorized by the Government, therefore the project is considered to be completed.

The Operator's Final Report has been received, therefore we recommend that final payment be made on the following basis, which is in conformance with the Report of Review of reported project costs by the Contract Administration and Audit Division, dated October 11, 1957. It is noted that the total drilling costs certified in the Report of Review are based on a rounded figure contained in the contract, which is $0.10 in excess of total drilling costs as calculated at the maximum allowable unit cost:

Basis for Final Payment

Total accepted cost----------	$14,964.00
Government participation at 75%-------	11,223.00
Total prior payments----------	10,822.92
Balance due the Operator----------	$ 400.08

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

JDC:hmh
cc: Chmn. Op. Comm. (2)
Harshman
DMEA, DFC
Townsend
Corres. file, Reg. III
MF-104 file, Reg. III
Chron

Paid $400.08
RRe

OCT 22 1957

DMA-58-49

12-14-56

FINAL DISTRIBUTION

MADE DEC 11 1956

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

Administrative Audit Difference Statement

Foothills Mining Company
635 Hawthorne Avenue
Golden, Colorado

Date: December 7, 1956
Payee's Reference: October 1956

DMEA-3830

Gentlemen:

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

Amount Claimed	$	1,612.50
		.10
Difference	$	354.75
Amount Approved	$	* 1,967.15

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The reason for the difference was due to:

Disallowed:
Error in computation for 270 feet of core drilling.

Claimed 1,612.50
Allowed 1,612.40

.10

Reinstated:
$354.75 claimed on March 1956 report and for which payment was withheld.

* $400.00 withheld pending possible additional work.

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

Very sincerely yours,

RRC

N. E. Stokes
Audit Section

Randal R. Cooper
Field Officer, Region III

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

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

224 New Customhouse
Denver 2, Colorado

December 6, 1956

RECEIVED DEC 13 1956 DMEA

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 3830 (Uranium) Contract Idm-E866, Foothills Mining Company (Wright Lease) Boulder County, Colorado - Operator's Monthly Progress Report for the month of September, 1956

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

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

Disallowance, Core drilling:

Amount reported on Form MF-104 for September, 1956, 290 feet of core drilling at cost of - - - - - - - -	$1,612.50
Accepted cost, 290 feet of core drilling at $5.56 per foot -	1,612.40
Amount to be disallowed	$ 0.10

Amount to be Reinstated 334.75 ~~266~~

Reinstate the amount of $266.06 which was withheld from the March, 1956 voucher.

Amount to be Withheld

Withhold an amount of $400.00 pending possible additional work under the contract.

Reconciliation with Amount Reported by the Operator on Form MF-104 for Sept., 1956

Amount reported on Form MF-104 for Sept., 1956 - - -	$1,612.50
Amount to be disallowed - - - - - - - - - - - - - - - - - -	0.10
Total accepted cost for September, 1956 - - - - - - - - -	$1,612.40
Government participation at 75 percent - - - - - - - - -	$1,209.30
Amount to be withheld - - - - $400.00	
Amount to be reinstated - - - 266.06	
Net amount withheld - - - - - - - - - - - - - -	133.94
Recommended payment to the Operator	$1,075.36

Remarks

Date of Report - - - - - - - - - - - -	September 28, 1956
Date Received in Field Office - - -	November 28, 1956
Date Received in Region Office - -	December 3, 1956

Original signed by
W. M. TRAVER

W. M. Traver

Enclosures

JDC:jy
cc: MF-104 File E866
Chm. Op. Comm. (2)
Shaw (2)
Harshman) w/copy engr's report
Townsend)
Chron.

DMEA
DEPARTMENT OF THE INTERIOR

DEC 3 1956
REGION III
DENVER, COLORADO

Building 20
Denver Federal Center
Denver 2, Colorado

December 3, 1956

Memorandum

To: Executive Officer, DMEA Field Team, Region III

Through: John F. Shaw
Supervising Mining Engineer

From: C. M. Harrer
E. W. Buel

Subject: DMEA 3830, Contract Ian-3866 (Uranium) Foothills Mining Co., Boulder County, Colorado - Progress report for August - September, 1956

Progress under the contract for the month of August 1956 was examined on September 7, 1956, in the company of Verne Wilcox. The writer was accompanied by L. J. McGreevy, geologist of the U. S. Geological Survey.

The property was again visited on November 29, 1956, to check the area for which the operator proposes an additional 500 feet of drifting. The operator in a letter of November 26, 1956, to the Field Team has requested the Government's approval of additional work and funds under the subject contract.

Progress under the contract for August and September 1956 consisted of core drilling two size AX holes as specified under amendment No. 1 to the contract. Both holes were drilled underground from a set up 360 feet southeast of the crosscut portal, as shown on the accompanying sketch. Hole No. 1 was drilled horizontally to intersect the uranium-bearing structure about 50 feet southeast of the southeast end of the drift. Hole No. 2 was drilled 177 feet at -60° to cut the same structure at depth. Total drilling was 292 feet which is 2 feet beyond contract stipulation. The holes were probed by the Denver Exploration Branch of the Atomic Energy Commission with the following results:

<u>Hole No. 1</u> (horizontal)

Background count is 0.10Mr/hr.
0 - 79 feet depth gave counts of 0.22 Mr/hr.
80 - 94 feet depth gave counts of 0.35 to 0.90 Mr/hr.
94 -115 feet depth gave counts of 0.30 to 0.36 Mr/hr.

The shear zone was cut between 82 and 94 feet depth. No ore was encountered although the structure was mineralized.

Hole No. 2 (-60° and from same set up as hole No. 1).

0 to 14 feet depth gave a count of 0.10 Mr/hr. with occasional small spotty readings up to 0.3 Mr/hr.

114 to 123 feet depth gave readings of 0.10 to 0.55 Mr/hr. This is considered to be the mineralized shear zone which is the target for drilling.

123 to 177.5 feet depth gave readings of 0.02 to 0.35 Mr/hr. No ore was encountered although this zone is mineralized.

This completes exploration under the terms of the contract.

Payment is recommended for the operator's request of 290 feet of core drilling at a total cost of $1,612.50. Government participation of 75 percent is $1,209.38.

C. M. Harrer
C. M. Harrer
Mining Engineer

E. W. Buel for
Edward W. Buel
Mining Engineer

Enclosures

cc 6
Idm-2066
Chrom.

CMH:yh

RECEIVED
DEC 13 1956
D.M.E.A.

REPORT OF PROGRESS MADE UNDER D.M.E.A.
CONTRACT ON THE WRIGHT LEASE
FOOTHILLS MINING COMPANY

Work on the Wright Lease of the Foothills Mining Company under Contract Idm-E866 was resumed in August, 1956, after a recess during which application was made by the company for an amendment to allow the substitution of 290 feet of diamond core-drilling for the remaining 50 feet of drifting allowable under Stage II. Approval of this change was received about August 15 and work began soon afterward. Mr. George Marshall of Idaho Springs, Colorado, drilled the two holes, No. 1, a horizontal hole extending 115 feet S-13°-W and No. 2, a 60° down hole extending 177 feet in the same direction. Total footage was therefore 292 feet.

This drilling yielded valuable information although no material of ore grade, judged radiometrically, was disclosed.

Hole No. 1 penetrated the radioactive zone for 16 feet from which about 10 feet of core was obtained. From 81 feet to 86 feet no core was recovered through the most radioactive part of the hole. The core resembles ore-breccia occurring in the shoots to the west, although lighter gray in color. Radioactivity as recorded in the logs prepared by A.E.C. geologists is strong enough to justify further exploration in that area.

Probing of Hole No. 2 found weak radioactivity at points practically corresponding with the location of carbonate breccia logged at 68'-70' and 118' to 120' by drilling measurement which shows that the hanging wall and foot wall fractures are present at depths of about 60 feet and 100 feet, respectively, below the main crosscut level in that area. For more details of this work, reference is made to the accompanying logs of radioactivity and geology.

Drifting is now in progress on the 86 foot level northwest of the winze sunk just beyond Station A-4 during the past few months. About 55 feet of the vein has been exposed with ore continuing in the breast at this time. After the northwestern boundary of this ore-shoot is reached, drifting will be carried southeasterly to determine the extent of the ore in that direction.

A revised application for supplemental funds has been prepared and is now under consideration by the Denver D.M.E.A. office.

Hoping that this adequately covers the work completed, we are

Yours sincerely,

Foothills Mining Company

By H. L. Bird
H. L. Bird, Geologist

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

Budget Bureau No. 42-R1036.5

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

Month of September, 1956 Docket No. DMEA 3830 Contract No. Idn E 866
Operator's Name Foothills Mining Company Minerals Uranium
Address 3240 - 6th Street, Boulder, Colorado
Contract Amount, $ 15,276.00 Government Participation: 75 % Amount, $ 11,457.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling - Core	$1612.50		$ 1,612.50			
~~Bulkhead~~ Timbering		$ 48.00	48.00			
Crosscutting		3,902.25	3,902.25			
Drifting		9,320.25	9,320.25			
Assays		81.00	81.00			
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	$1612.50	$ 13,351.50	$ 14,964.00	* 1612.40	13,351.50	14,963.90

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

Date Nov. 28, '56 *Payee Foothills Mining Company

Per Lloyd Lynn Title Sec. Treas.

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

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

(Instructions on reverse)

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

$ 1,075.36

Signature RCA
(Authorized Certifying Officer)

Date 12-7-56 Vou. No. DMA-57-63
(See other side)

* 354 March 1956 report reinstated
$ 400.00 withheld

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. dm-E86 in accordance with the terms of the contract.

Signature Edward W. Buel #1612-50 Title Mining Engr. Date 11/29/56

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature W. M. Carey Title Executive Officer Date DEC 6 1956

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-101A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of September 1956 Docket No. DMEA 3830 Contract No. Idm E 866

Operator's Name Foothills Mining Company Minerals Uranium

Address 3240 - 6th Street, Boulder, Colorado

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drifting	Feet			$ 9320.25	289	$32.25	410	13,222.50
Crosscutting	"			3902.25	121	32.25	(Amended)	
Raising								
~~xxxxx~~ Assays	Each			81.00	27	3.00	47	141.00
Winzes								
Drilling: Core X	Feet	1612.50	290	1612.50	290	5.56	290	1,612.50
(by amendment) Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Timbering	Feet			48.00	12	4.00	25	300.00
TOTAL DISTRIBUTED COSTS								TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								15,276.00
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		$1612.50		$16,966.00				$15,276.00

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

Date Sept. 28, 1956 Operator Foothills Mining Company

Per [signature] Title Sec. Treas.

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

REMARKS:

(Instructions on reverse)

(For Government use only)

RECEIVED OCT 13 1956 DMEA

Edward W. Buel

INSTRUCTIONS

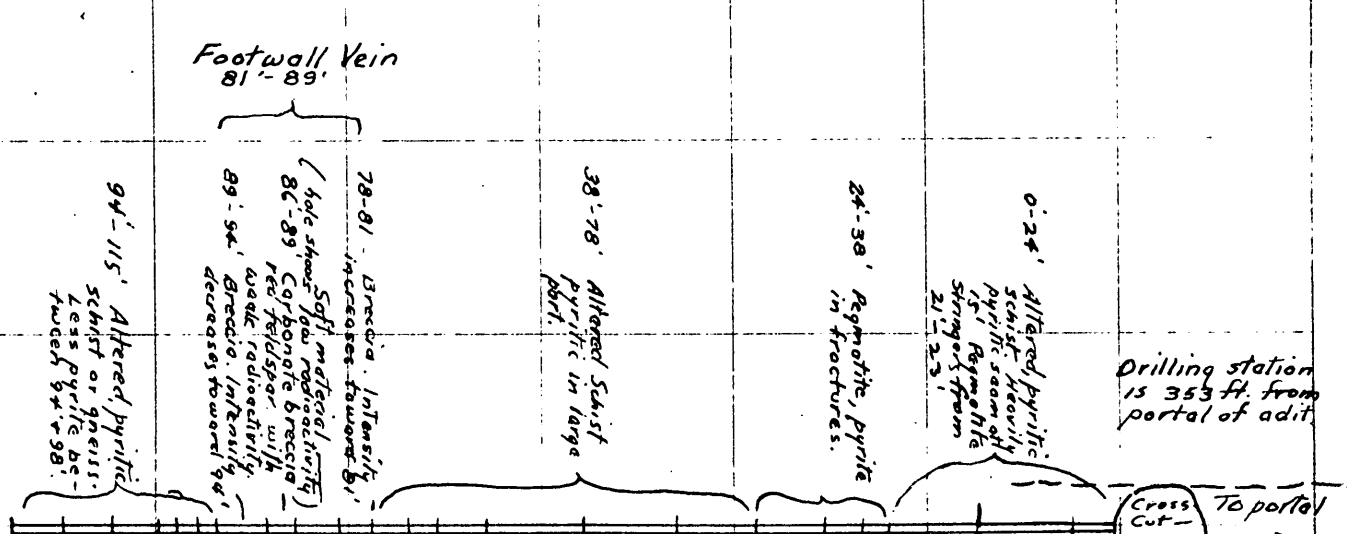
Preparation of Form MF-104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better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

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

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

GPO 872894

Hole No. 1 – AX core



Footage	Recovery
0'-5'	95+%
5'-15'	"
15'-24'	"
24'-27'	"
27'-31'	"
31'-38'	"
38'-46'	"
46'-56'	"
56'-66'	"
66'-71'	"
71'-74'	"
74'-78'	"
78'-81'	"
81'-86'	None
86'-89'	16%
89'-94'	90%
94'-96'	20%
96'-98'	95+%
98'-100'	"
100'-105'	"
105'-110'	"
110'-115'	"

Drilled by George Marshall
D.M.E.A. Contract 1dm-866
Wright Lease, Foothills Mining Company.
Hole No. 1 is horizontal in a S-13°-W direction. Total depth, 115 ft.
Not surveyed for deflection.

Scale - 1" = 20'

H.L. Bird,
Mining Geologist.

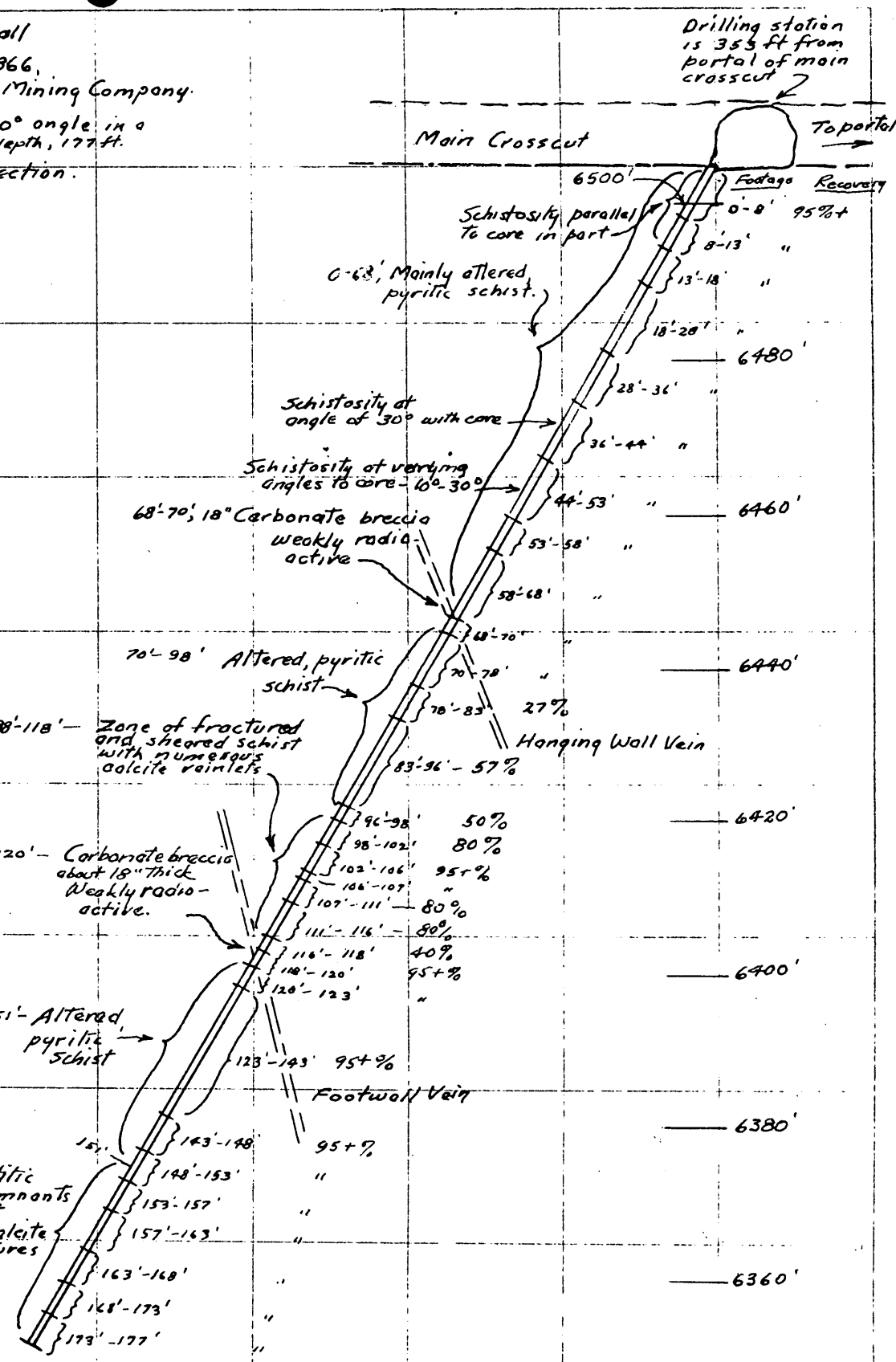
RECEIVED
DEC 13 1956
D.M.E.A.

Hole No. 2 - AX core

Drilled by George Marshall
D.M.E.A. Contract Idm-E866,
Wright Lease, Foothills Mining Company.

Drilled downward at 60° angle in a
S-13°-W direction. Total depth, 177 ft.

Not surveyed for deflection.
Scale - 1" = 20'



H. L. Bird,

RECEIVED
DEC 13 1956
D.M.E.A.

LOG OF RADIOACTIVITY IN DDH NO. 1, UNDERGROUND
WRIGHT LEASE, JEFFERSON COUNTY, COLORADO

Operated by Foothills Mining Company.
Probed by J. Schlottmann.

Depth/Ft.	MR/hr.	Depth/Ft.	MR/hr.	Depth/Ft.	MR/hr.
Collar	0.10	79	0.22	98	0.35
5	0.14	80	0.35	99	0.30
10	0.15	81	0.45	100	0.30
15	0.16	82	0.90	101	0.28
20	0.20	83	0.85	102	0.25
25	0.20	84	0.60	103	0.24
30	0.19	85	0.75	Footwall Zone 104	0.29
35	0.20	86	0.85	105	0.24
40	0.20	87	0.55	106	0.25
45	0.20	88	0.55	107	0.22
50	0.20	89	0.65	108	0.24
55	0.22	90	0.65	109	0.25
60	0.25 Hanging Wall?	91	0.50	110	0.30
65	0.20	92	0.50	111	0.26
70	0.20	93	0.37	112	0.24
75	0.19	94	0.36	113	0.22
76	0.19	95	0.35	114	0.21
77	0.20	96	0.35	115	0.20
78	0.20	97	0.35		

Drilling angle 60° off main adit.

RECEIVED
DEC 13 1956
D.M.E.A.

LOG OF RADIOACTIVITY IN DDH NO. 2, UNDERGROUND
WRIGHT LEASE, JEFFERSON COUNTY, COLORADO

Operated by Foothills Mining Company.
Probed by A. Green - 9-10-56.

Depth/Ft.	MR/Hr.	Depth/Ft.	MR/Hr.	Depth/Ft.	MR/Hr.
Collar	0.02	75	0.10	118	0.07
5	0.03	76	0.05	119	0.10
10	0.02	77	0.05	120	0.18
15	0.02	78	0.04	121	0.11
20	0.03	79	0.09	122	0.55
25	0.03	80	0.04	123	0.35
30	0.025	85	0.025	124	0.02
35	0.02	90	0.025	125	0.015
40	0.025	95	0.025	130	0.02
45	0.025	100	0.025	135	0.02
50	0.02	105	0.02	140	0.015
55	0.02	110	0.02	145	0.015
60	0.025	111	0.06	150	0.02
65	0.025	112	0.08	155	0.06
70	0.06	113	0.08	160	0.06
71	0.19	114	0.13	165	0.07
72	0.30	115	0.07	170	0.04
73	0.08	116	0.07	175	0.04
74	0.10	117	0.07	177.5	0.04

Footwall

Hanging wall

Drilling angle 60° off main adit.
Collar is 0.5' above floor of drift.
Background reading 0.02 MR/Hr.

RECEIVED
OCT 18 1956

5-7-56

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

Administrative Audit Difference Statement

Foothills Mining Company
635 Hawthorne Ave.,
Boulder, Colorado

FINAL DISTRIBUTION
MADE APR 26 1956

Date: April 25, 1956
Payee's
Reference: March 1956

Gentlemen:

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

Amount Claimed $ 354.75

Difference $

Amount Approved $ 354.75

The reason for the difference was due to:

* Withhold entire amount pending resumption of work under this contract.

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

Very sincerely yours,

RECEIVED
APR 30 1956

N. E. Stokes
Audit Section

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

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

224 New Customhouse
Denver 2, Colorado

April 19, 1956

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region III

Subject: DMEA Docket 3830 (Uranium) Contract Idm-E866, Foothills Mining Company (Wright Lease) Jefferson County, Colorado. Operator's Monthly Progress Report for the period March 1956

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

It is deemed that the Operator has complied with the intent of the contract, and the work is acceptable to the Government.

The Operator has reported a total cost of $354.75 on Form MF-104. Government participation at 75 percent is $266.06, subject to your verification of the correctness of applicable rates and arithmetical accuracy of computations.

Withhold the entire amount of $266.06 pending resumption of work under the contract, or if work is not resumed continue to hold this amount pending resolution of matters relative to closing the account. All currently approved work has been completed.

Remarks

Date of Report----------April 2, 1956
Date Received in Field Office---------- April 3, 1956
Date Received in Region Office---------- April 5, 1956

W. M. TRAVER

W. M. Traver

Enclosures
JDC:jy
cc: MF-104 File E866 Townsend w/copy engr's report
Sec. Op. Comm. (2) Cooper
Shaw (2) Chron.

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APR 30 1956

The operators have been mining uranium ore 120 to 160 feet northwest of the crosscut. Three samples were taken of the stope back (samples L-[illegible], [illegible] and L-[illegible]). About 215 wet tons of ore are reported shipped to Vitro Uranium Corporation, at Salt Lake City, during March. Settlement sheets were received for the two earliest lots shipped during February. Lot 1 was settled on 0.33 percent U_3O_8, and lot 2 on 0.40 percent U_3O_8.

Foothills Mining Company have currently reported their advance for the month of March as 11 feet of drift. Their narrative report is very complete. Their forms MP-105 and 105A are complete and correct and payment of $[illegible].56 which is 75 percent of the total amount ($[illegible].75) claimed as expenditures is recommended for approval.

C. M. Harper

C. M. Harper
Mining Engineer

CMH/mr
cc: [illegible]
Ike-[illegible]
Chron

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

Budget Bureau No. 42-R1036.5

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

Month of March, 1956 Docket No. DMEA 3830 Contract No. Idn E 866
Operator's Name Foothills Mining Company Minerals Uranium
Address 3240 6th Boulder, Colorado
Contract Amount, $ 15,276.00 Government Participation: 75 % Amount, $ 11,457.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
~~XXXX~~ Timbering		$ 48.00	48.00			
Bulldozing						
Crosscutting		3902.25	3902.25			
Drifting	$354.75	8965.50	9320.25			
Assays		81.00	81.00			
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	$354.75	$12,996.75	$13,351.50	354.75	12,996.75	13,351.50

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

Date April 2, 1956 *Payee Foothills Mining Company

Per Lloyd R. Lynch Title Vice President

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

RECEIVED APR 20 1956

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

(Instructions on reverse)

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

$

Signature (Authorized Certifying Officer)

Date 4/25/56 Vou. No. —

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. Idm-E866 in accordance with the terms of the contract.

Signature C. M. Harper $266.06 Title Mining Engineer Date April 4, 1956

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature W. J. Mayer Title Executive Officer Date APR 12 1956

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of March 1956 Docket No. DMEA 3830 Contract No. Idm E 866

Operator's Name Foothills Mining Company Minerals Uranium

Address 3240 6th Street, Boulder, Colo.

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drifting	Feet	354.75	11	9320.25	289	$32.25	460	14,835.00
Crosscutting	"			3902.25	121	32.25		
Raising								
~~Shaft~~ Assays	Each			81.00	27	3.00	47	141.00
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Timbering	Feet			48.00	12	4.00	75	$ 300.00
TOTAL DISTRIBUTED COSTS								TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								$15,276.00
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		$354.75		$13,351.50				$15,276.00

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

Date April 2-56 Operator Foothills Mining Co.

Per Lloyd B. Sweet Title Vice President

REMARKS:

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

(Instructions on reverse)

(For Government use only)

C. M. Harper

RECEIVED

APR 30 1956

INSTRUCTIONS

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

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

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

GPO 872894

REPORT OF PROGRESS MADE UNDER D.M.E.A.
CONTRACT ON THE WRIGHT LEASE
FOOTHILLS MINING COMPANY

During March 1956, the only work done on the Wright Lease under D.M.E.A. contract was the completion of the initial 50 feet of drifting southeasterly on the footwall vein under Stage II. Since 39 feet of this work was completed in February, 11 feet is allowable, although the breast is well beyond this point at the present time.

The vein continues to be tight and low in radioactivity but the strike has changed to a more southerly direction, and the dip has flattened to about 81°, which indicates a return to a more favorable attitude in the ground ahead.

During March about 215 wet tons of ore were shipped under Fringe Area Contract.

Settlement sheets have been received for the two cars shipped in February, the first, Lot 2 settled at .33% U_3O_8 and the second, Lot 3, assayed .40% U_3O_8. No control assays or settlement sheets have been received for the tonnage shipped in March.

Consideration is being given to alternate plans of using the remaining 50 feet of drifting or crosscutting allowable under Stage II of the contract, and as soon as a mutually satisfactory plan is worked out a letter of request will be forthcoming.

Hoping you will find this report satisfactory, we are

Yours truly,

Foothills Mining Company

By H. L. Bird
H. L. Bird, Geologist

3/13/56 lgm

RECEIVED
MAR 12 1956
FINAL DISTRIBUTION
MAR 9 1956
MADE

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

224 New Customhouse
Denver 2, Colorado

March 7, 1956

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region III

Subject: DMEA Docket 3830 (Uranium) Contract Idm-E866, Foothills Mining Company, Wright Lease, Jefferson County, Colorado. Operator's Monthly Progress Report, for the period February 1956

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

It is deemed that the Operator has complied with the intent of the contract, and the work for which payment is recommended is acceptable to the Government. No documentation is required for work performed under contracts prepared on Form MF-200A, therefore, we recommend that payment be made for 75 percent of the amount reported by the Operator on Form MF-104, contingent on your verification of arithmetical accuracy within the report.

Amount Claimed----------$1,257.75

Recommended Payment at 75 Percent-------- $ 943.31

Remarks

Date of Report----------March 2, 1956
Date Received in Field Office---------- March 2, 1956
Date Received in Region Office---------- March 6, 1956

W. M. TRAVER

W. M. Traver

Enclosures
JDC:jy
cc: MF-104 E866
Sec. Op. Comm. (2)
Shaw (2)
Chron.

RECEIVED

MAR 12 1956

Region III

Building 20
Denver Federal Center
Denver 2, Colorado
March 6, 1956

Memorandum

To: Executive Officer, DMEA Field Team, Region III

Through: John F. Shaw
Supervising Mining Engineer

From: C. M. Harrer

Subject: Progress report for February 1956 - Contract Idm-2866 (Uranium)
Foothills Mining Company, Jefferson County, Colorado

Progress under the contract for the month of February was inspected on March 5, 1956 in the company of H. L. Bird.

Exploration along the radioactive shear structure was limited to drifting southeast of the crosscut. At the time of inspection, the drift had been extended 44.5 feet. The operator's reported 39 feet for the month is therefore recommended for approval.

Drifting southeast was along a well defined shear structure containing considerable pyrite and calcite. Radioactivity measurements of 0.1 to 0.3 MR/hr. did not indicate uranium of commercial grade. Dip of the structure which was 71° northeast at the crosscut has steepened to 88° northeast at the face. The reddish hematite-limonite alteration prominent in the drift northeast of the crosscut is absent.

Because of the low geiger count, no samples were assayed for uranium content.

During February, Foothills Mining Co., shipped two carloads of uranium ore, totalling about 140 tons to Vitro Uranium Corp., at Salt Lake City. The central assay of the two carloads contained 0.235 and 0.367 percent U_3O_8. The shipments came from a uranium occurrence 130 to 160 feet northeast of the crosscut.

Foothills Mining Co. have correctly reported their advance for the month of February as 39 feet of drift. Their narrative report is very complete. Their forms MF-104A and 104 are complete and correct and payment of $943.31, which is 75 percent of the total amount ($1,257.75) claimed as expenditures, is recommended for approval.

C. M. Harrer
C. M. Harrer
Mining Engineer

CMH/mr
cc 6
2866 - Chron

RECEIVED
MAR 12 1959

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

Budget Bureau No. 42-R1036.5

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

RECEIVED
MAR 12 1956

Month of February, 1956 Docket No. DMEA 3830 Contract No. Idm - E866
Operator's Name Foothills Mining Co. Minerals Uranium
Address 635 Hawthorn Ave. Boulder, Colorado
Contract Amount, $ 15,276.00 Government Participation: 75 % Amount, $ 11,457.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
~~Drilling~~ Timbering		$48.00	$48.00			
Bulldozing		3902.2				
Crosscutting		3902.25	3902.25			
Drifting	$1257.75	7707.75	8965.50			
		81.00	81.00			
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	$1257.75	$11,739.00	$12,996.75	1,257.75	11,739.00	12,996.75

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

Date 3/12/56 *Payee Foothills Mining Co.

Per Leon R. Lunt Title Sec. Treas.

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

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

(Instructions on reverse)

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

$ 943.31

Signature [illegible]
(Authorized Certifying Officer)

Date 3/8/56 Vou. No. 56-79
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. Idm-E866 in accordance with the terms of the contract.

Signature C. W. Harrer #943-31 Title Mining Engineer Date March 5, 1956

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature W. M. Lane Title Executive Officer Date MAR 7 1956

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
MAR 12 1956

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of February 1956 Docket No. DMEA 3830 Contract No. Idm-#866
Operator's Name Foothills Mining Co. Minerals Uranium
Address 635 Hawthorn Ave. Boulder, Colorado

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drifting	Feet	$1257.75	39	$8965.50	278	32.25	460	$14,835.00
Crosscutting	"			3902.25	121	32.25		
Raising								
Shafts Assays	Each			81.00	27	3.00	47	141.00
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Timbering	Feet			481.00	12	4.00	75	300.00
TOTAL DISTRIBUTED COSTS								TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								15,276.00
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc								
TOTAL COSTS		12,577.75		12,996.75				15,276.00

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

Date 3/2/56 Operator Foothills Mining Co.
Per Lloyd P. Lewis Title Sec. Treas.

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

REMARKS:

(Instructions on reverse)

(For Government use only)
P. M. Harrer

INSTRUCTIONS

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

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

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

GPO 872894

RECEIVED
MAR 12 1956

REPORT OF PROGRESS MADE UNDER D.M.E.A.
CONTRACT ON THE WRIGHT LEASE
FOOTHILLS MINING COMPANY

Drifting on the Wright Lease during the month of February was carried to a distance of 39 feet from the southeasterly wall of the crosscut along the footwall vein. Throughout most of the distance the vein was tight and poorly mineralized and no samples were cut for assay. The most radioactive part was at a distance of 20 feet from the crosscut and gave Geiger readings up to 1 Mr/ Hr. The occurrence was lenticular and no commercial quantity of ore was exposed.

The vein swung to the left in this part of the drift and the dips have become progressively steeper. The strike along the last ten feet of vein exposed is S-62°- E which is more easterly than the average strike and may indicate a complementary swing to the right in the ground ahead of the drift and more favorable conditions for ore deposition.

During February two carloads of about 70 tons each were shipped under a Fringe Area Contract to Vitro Uranium Corp. at Salt Lake City. This contract allows the shipment of 300 tons of ore between January 1st 1956 and March 31st, 1956. Settlement sheets for these cars have not been received but the control assay on Lot 2, the first car in February, was 0.235% U_3O_8. and on Lot 3, the second car, the control assay was 0.367% U_3O_8.

Trusting you will find this report satisfactory, we remain

Yours truly
Foothills Mining Company

H. L. Bird

H. L. Bird

HLB:lw

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

RECEIVED
FEB 16 1956
FINAL DISTRIBUTION
MADE FEB 14 1956

224 New Customhouse
Denver 2, Colorado

February 10, 1956

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region III

Subject: DMEA Docket 3830 (Uranium) Contract Idm-E866, Foothills Mining Company, ~~Boulder~~ Jefferson County, Colorado. Operator's Monthly Progress Report, for the period January, 1956

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

It is deemed that the Operator has complied with the intent of the contract, and the work for which payment is recommended is acceptable to the Government. No documentation is required for work performed under contracts prepared on Form MF-200A, therefore, we recommend that payment be made for 75 percent of the amount reported by the Operator on Form MF-104, contingent on your verification of arithmetical accuracy within the report.

Amount claimed by Operator on Form MF-104	$2,181.75
Recommended payment to Operator at 75 percent	$1,636.31

Remarks

Date of Report----------February 2, 1956
Date Received in Field Office---------- February 6, 1956
Date Received in Region Office--------- February 9, 1956

W. M. TRAVER

W. M. Traver

Enclosures
JDC:jy
cc: MF-104 File E866

Sec. Op. Comm (2)
Shaw (2)
Chron.

DMEA
Date Rec'd.

FEB 10 1956

BUREAU OF MINES
Denver, Colorado

REGION III

Building 20
Denver Federal Center
Denver 2, Colorado
February 9, 1956

Memorandum

To: Executive Officer, DMEA Field Team, Region III

Through: John F. Shaw, Swb for
Supervising Mining Engineer

From: C. M. Harrer

Subject: Progress report for January 1956 - Contract Idm-2866 (Uranium)
Foothills Mining Company, ~~Boulder~~ Jefferson County, Colorado

Progress under the contract for the month of January was inspected on February 9, 1956. No one was at the property, probably due to the heavy snow.

The radioactive shear structure was drifted on for 67 feet during the month, as reported. Total drifting to date is 239 feet under the terms of the contract.

Seven samples were assayed for U_3O_8 as reported in the operator's narrative report and forms MF-104 and 104A are verified by included "Certificates of Assay" from the H. E. Wood Assaying Company. They are allowed at the contract rate and for the operator's total of $21.00.

Drifting continued along a well defined shear zone with dips of 65° northeast and a northwesterly strike. The operator sampled ore from his No. 2 ore shoot, about 130 feet in from the crosscut, to determine the effect of oxidation on his ore. Sample 19A of selected primary ore assayed 0.654 percent U_3O_8 and sample 19B of selected oxidized ore assayed 0.315 percent U_3O_8. In addition, the operator took two samples 186.5 feet in from the crosscut. Sample No. 19 over 8 inches of unoxidized ore assayed 0.464 percent U_3O_8 and sample No. 20 over 10 inches of oxidized material assayed 0.053 percent U_3O_8. The last two samples, 21 and 22, taken by the operator were 230 feet from the crosscut. Selected primary (unoxidized) material over a one foot width, assayed 0.654 percent U_3O_8 and oxidized material, also taken over a one foot width, assayed 0.315 percent U_3O_8.

Foothills Mining Company have shipped 45 dry tons of ore which settled on 0.41 percent U_3O_8 and have a second "fringe area" contract to deliver up to 300 tons by March 31, 1956.

The first lot shipped also assayed 0.2 percent Molybdenum.

Foothills Mining Company have correctly reported their advance for the month of January as 67 feet of drift. Their narrative report is refreshingly complete. Their forms MF-104A and 104 are complete and correct and payment of $1,636.31, which is 75 percent of the total amount ($2181.75) claimed as expenditures, is recommended for approval.

C. M. Harrer
C. M. Harrer
Mining Engineer

CMH/mw
cc 6
Idm-2866
Chron.

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

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED FEB 16 1956

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of January, 1956 Docket No. DMEA 3830 Contract No. Idm-[illegible]

Operator's Name Foothills Mining Company Minerals Uranium

Address 635 Hawthorn Ave. Boulder, Colorado

Contract Amount, $ $15,270.00 Government Participation: 75 % Amount, $ 11,457.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling						
**** Timbering Bulldozing		$ 48.00	48.00			
Crosscutting						
Drifting		3902.25	3902.25			
	$2160.75	5547.00	7707.75			
(2) Labor and Supervision:	21.00	60.00	81.00			
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	$2181.75	$ 9557.25	$11,739.00	2,181.75	9,557.25	11,739.00

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

Date 2/13/56 *Payee Foothills Mining Co.

Per Leon B. Lovett Title Sec. Treas.

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

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

(Instructions on reverse)

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

$1636.31

Signature [illegible] (Authorized Certifying Officer)

Date 2/13/56 Vou. No. DMA 56-71

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. Idm-E866 in accordance with the terms of the contract.

Signature C. M. Harper $1636.31 Title Mining Engineer Date Febr. 9, 1956.

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature [illegible] Title Executive Officer Date FEB 10 1956

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
FEB 16 1956

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of January 1956 Docket No. DMEA 3830 Contract No. Idm-2866
Operator's Name Foothills Mining Company Minerals Uranium
Address 635 Hawthorn Ave., Boulder, Colorado.

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting	Feet	$ 2160.75	67	$ 7707.75	239	$32.25	460	$14,835.00
Crosscutting	"			3902.25	121	32.25		
Raising								
Shafts Assays	Each	21.00	7	81.00	27	3.00	47	141.00
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Timbering	Feet			48.00	12	4.00	75	300.00
TOTAL DISTRIBUTED COSTS		$ 2181.75		$11,739.00				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								$15,276.00
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		$ 2181.75		$11,739.00				$15,276.00

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

REMARKS:

Date Feb. 2, 1956 Operator Foothills Mining Company
Per Lloyd P. Lynch Title Sec.-Treas.

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

(Instructions on reverse)

(For Government use only)
C. M. Harper

INSTRUCTIONS

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

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

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

GPO 872894

REPORT OF PROGRESS MADE UNDER D.M.E.A.
CONTRACT ON THE WRIGHT LEASE
FOOTHILLS MINING COMPANY

Cross cutting and drifting on the Wright lease under Stage I of the contract was completed January 30, 1956, by the extension of the northwest drift to a point 239 feet from the crosscut. The breast on January 1, 1956 was 172 feet from the crosscut so the total distance driven in January was 67 feet.

Although little commercial ore was exposed in this 67 feet the structure remained definite and it is possible that further drifting might discover more ore. At this time, however, we have elected to drift 50 feet to the southeast of the crosscut on the footwall vein as the initial work under Stage II of the contract in order to test the uranium-bearing structure in that direction.

Samples taken in January were as follows:

Assays 19 and 20 were cut at 186.5 feet from the crosscut to compare the value of oxidized and primary ore. No. 19, over 8" of dark gray material regarded as primary, assayed 0.46% U_3O_8 and No. 20, over 10" of oxidized ore, assayed 0.053% U_3O_8.

Assays 19-A and 19-B were made to further investigate the effect of oxidation on the uranium content of the ore. Made by selection of clean oxidized and primary material from a large piece of ore from ore-shoot No. 2, the following results were obtained:

No. 19-A, Primary - U_3O_8 - 0.654%
No. 19-B, Oxidized - U_3O_8 - 0.315%

The pulps from these assays were sent to the U.S.G.S. laboratories for radiometric assaying. Results from these tests have not yet been received by us.

Assays 21 and 22 were cut at 230 feet from the crosscut from a small body of ore that was exposed by the drift between 225 and 235 feet from the crosscut.

No. 21, over 12", 8" above floor assayed 0.477% U_3O_8.

No. 22, over 12", about 6 feet above floor, assayed 0.232% U_3O_8. A small amount of prospecting by winzing or raising seems justifiable at this location.

Returns on the first car of ore shipped under A.E.C. contract were encouraging, the settlement assay being 0.41% U_3O_8 on a lot of 45 dry tons.

A second car of ore was shipped February 1st and succeeding cars will be shipped as soon as possible under a second Fringe Area contract which allows us to ship up to 300 tons by March 31, 1956.

Over 350 lineal feet of long-hole drilling has been done on the company's account with good results, ore grade material having been indicated in several holes by A.E.C. probing.

A test on ore from the property made by Mr. Jack Adams of the Geological Survey staff revealed that molybdenum is present so as a check the control sample from the first car of ore was assayed from molybdenum yielding 0.20% Mo.

An occurrence of radio-activity in two short drill holes in the footwall at a point about 72 feet northwest of Sta. A-5 led to the drilling of two drift rounds into the footwall following a cross fracture. The breast of this short drift contains an interesting exposure of molybdenum and uranium bearing ore, the molybdenum being present as molybdenite.

Trusting that you will find this report satisfactory we remain,

Yours truly,

FOOTHILLS MINING COMPANY

By: H. L. Bird

H. L. Bird

1-23-56 dgm

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

FINAL DISTRIBUTION
JAN 19 1956
MADE

RECEIVED
JAN 23 1956

224 New Customhouse
Denver 2, Colorado

January 6, 1956

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region III

Subject: DMEA Docket 3830 (Uranium) Contract Idm-E866, Foothills Mining Company, Wright Lease, Boulder County, Colorado - Operator's Monthly Progress Report, for the period December, 1955

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

It is deemed that the Operator has complied with the intent of the contract, and the work for which payment is recommended is acceptable to the Government. No documentation is required for work performed under contracts prepared on Form MF-200A, therefore, we recommend that payment be made for 75 percent of the amount reported by the Operator on Form MF-104, contingent on your verification of arithmetical accuracy within the report.

Remarks

Date of Report- - - - - - - - - - - - - January 3, 1956
Date Received in Field Office- - - - January 4, 1956
Date Received in Region Office- - - January 6, 1956

W. M. Traver

W. M. Traver

Enclosures
JDC:jy
cc: MF-104 File E866
Sec. Op. Comm. (2)
Shaw (2)
Chron.

DMEA
Date Rec'd.

JAN 6 1956

BUREAU OF MINES
Denver, Colorado

RECEIVED
JAN 23 1956

Region III

Building 20
Denver Federal Center
Denver 2, Colorado
January 5, 1956

Memorandum

To: Executive Officer, DMEA Field Team, Region III

Through: John F. Shaw
Supervising Mining Engineer

From: C. M. Harrer

Subject: Progress report for December 1955 - Contract Idm-E866 (Uranium)
Foothills Mining Company, Boulder County, Colorado

Progress under the contract for the month of December was inspected on January 5, 1956, in the company of Messrs. H. L. Bird, Duane Kraft, F. W. Gapter and Verne Wilcox, members of the Company.

The radioactive shear structure was drifted on for 70 feet during the month. Total drifting is now 172 feet. Total drifting measured on January 5, 1956 was 182.5 feet. The operator's advance of 70 feet for the month is therefore allowed.

Eight assays are reported in the narrative and forms MF-104 and 104-A are verified by included certificates from the H. E. Wood Assaying Co. and are allowed at the contract rate and for the operator's total of $24.00.

Drifting continued along a well defined shear zone with dips of 60° to 70° W., and a northwesterly strike. Five samples taken during the month indicate an orebodyshoot over 30 feet long and 1.5 to over 4 feet wide. Assays vary from 0.2 to 0.44 percent U_3O_8.

Fifty tons of ore will be shipped to the Vitro Uranium Co. at Salt Lake City, Utah for amenability tests under an Atomic Energy Commission contract.

A trial shipment of 18,835.96 dry pounds reported shipped to Union Carbide Nuclear Co. of Rifle, Colorado last month was settled on an assay of 0.26 percent U_3O_8, 0.16 percent V_2O_5 and 12.4 percent $CaCO_3$.

Foothills Mining Company have correctly reported their advance for the month as 70 feet of drift. The narrative report and forms MF-104 and MF-104A are complete and correct and payment of $1,711.12, which is 75 percent of the total amount ($2,281.50) claimed as expenditures, is recommended for approval.

C. M. Harrer

C. M. Harrer
Mining Engineer

cc 6 CMHarrer
E866 Chron
CMH/ch

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

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
JAN 23 1956

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of December, 1955 Docket No. DMEA 3830 Contract No. Idm - 866
Operator's Name Foothills Mining Company Minerals Uranium
Address 635 Hawthorn Ave. Boulder, Colorado
Contract Amount, $ 15,276.00 Government Participation: 75% Amount, $ 11,457.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling ~~####~~ Timbering		48.00	48.00			
Bulldozing						
Crosscutting		3,902.25	3,902.25			
Drifting	2,257.50	3,289.50	5,547.00			
Assays	24.00	36.00	60.00			
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	2,281.50	7,275.75	9,557.25	2281.50	7275.75	9557.25

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

Date Jan. 3, 1956 *Payee Foothills Mining Company

Per M. J. Kraft Title Sec. Treas.

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

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

(Instructions on reverse)

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

$ 1,711.13

Signature [illegible]
(Authorized Certifying Officer)

Date 1-12-56 Vou. No. DMA-56-56

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. Idm-F866 in accordance with the terms of the contract.

Signature C.M. Harrer $1,711.12 Title Mining Engineer Date 1-5-56

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature W.M. Nancy Title Executive Officer Date JAN 6 1956

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-10[illegible]
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
JAN 23 1956

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of December 1955 Docket No. DMEA 5830 Contract No. Idm - 866
Operator's Name Foothills Mining Company Minerals Uranium
Address 635 Hawthorn Ave. Boulder, Colorado

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drifting	Feet	2,257.50	70	5,547.00	172	32.25	460	14,835.00
Crosscutting	Feet			3,902.25	121	32.25		
Raising								
~~Shaft~~ Assays	Each	24.00	8	60.00	20	3.00	47	141.00
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Timbering	Feet			48.00	12	4.00	75	300.00
TOTAL DISTRIBUTED COSTS		2,281.50		9,557.25				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								15,276.00
New Buildings, Improvements, etc.								
TOTAL COSTS		2,281.50		9,557.25				15,276.00

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

Date Jan 3, 1956 Operator Foothills Mining Company

Per M. J. Kraft Title Sec. Treas.

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

REMARKS:

(Instructions on reverse)

(For Government use only)
C. M. Harper

INSTRUCTIONS

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

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

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

GPO 872894

REPORT OF PROGRESS MADE UNDER D.M.E.A.
CONTRACT ON THE WRIGHT LEASE
FOOTHILLS MINING COMPANY

Exploration on the Wright lease during December, 1955, consisted of continued drifting on the vein from a point 102 feet from the crosscut to a point 172 feet from the crosscut, making a total advance for the month of 70 feet.

At 120 feet from the crosscut a second shoot of commercial uranium ore was opened and a total stope length of at least 33 feet of ore was cut in the drift.

This ore is similar in composition to that discovered in the first oreshoot encountered by the drift, but is a little darker and contains some portions of very good grade. Assays of this high grade material were not taken, but the following list of assays taken across good widths of ore is of interest.

Sample No. 14, at 120 feet from the crosscut assayed 0.337% U_3O_8 over 4 feet.

A sample over 4 feet at 124 feet from the crosscut was cut December 8 and forwarded to Vitro Uranium Company at Salt Lake City for assay and amenability test. No return from Vitro on this test has yet arrived, but an assay cut by an A. E. C. geologist at 126 feet assayed 0.543% U_3O_8 chemical over 4 feet and another sample by the same geologist cut at 129.9 feet assayed 0.354% U_3O_8 chemical over a width of 4 feet.

Our sample No. 15, taken at 129 feet, was not a channel sample but was made on ore sorted from an 18-inch streak uncovered in the hanging wall side of the drift when slabbing off some loose rock. It assayed 0.244% U_3O_8.

Assay No. 16 was also on selected ore from the oxidized portion of the vein at 129 feet, assaying 0.20% U_3O_8, and was taken to give an idea of the degree of leaching of this material. This sample was of the harder part and was good-looking vein-stuff. The softer limonitic material was clearly of sub-ore grade and was not assayed.

Assay No. 16-A containing 0.148% U_3O_8 was on pulp from a sample taken by an A. E. C. geologist from the stock pile and was taken to determine what should be done with the ore it represented after a preliminary EU assay indicated a low value.

Sample 16-C assaying 0.144% U_3O_8 was on grizzly fines which read .6 MR by geiger counter and proved by assay to be of lower grade than other samples which gave readings of this magnitude.

Assay No. 17 was across 18 inches of ore at a point 32 feet N. W. of Station A-5 and contained 0.44% U_3O_8.

Assay No. 18, across 39 inches of mineralized breccia at 38 feet N. W. of Station A-5 gave a result of 0.318% U_3O_8.

On December 20 a contract was completed with the Atomic Energy Commission which allowed us to ship fifty tons of ore produced from the second oreshoot to Vitro Uranium Company at Salt Lake City on December 23. No word concerning this shipment has yet been received.

We estimate that at least 75 tons of ore is now stockpiled at the mine available for shipment.

Since exploration on the crosscut tunnel level has proven the presence of larger bodies of ore than occurred at the outcrop, we feel that deeper exploration by means of a winze is warranted and the next logical step. Other factors that would indicate the advisability of deeper exploration is the presence of considerable oxidized ore on the tunnel level over two hundred feet below the crest of the hill and the fact that the water table is very close to the bottom of the drift.

Hoping that you will find this report satisfactory, we remain

Yours truly,

FOOTHILLS MINING COMPANY

By

Vice President

HLB:mw

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

RECEIVED
DEC 19 1955

224 New Customhouse
Denver 2, Colorado

December 16, 1955

Memorandum

To: Secretary to the Operating Committee, DMEA

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

Subject: Docket DMEA-3830 (Uranium) Contract Idm-E866, Foothills Mining Company, Boulder County, Colorado

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

E. M. Harshman

E. M. Harshman

Enclosures

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

RECEIVED
DEC 19 1955

224 New Customhouse
Denver 2, Colorado

December 14, 1955

Memorandum

To: T. A. Christensen

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

Subject: Docket DMEA-3830 (Uranium), Contract IAm-E866, Foothills Mining Company, Boulder County, Colorado - Operator's Monthly Progress Report, for November, 1955

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

It is deemed that the Operator has complied with the intent of the contract, and the work for which payment is recommended is acceptable to the Government. No documentation is required for work performed under contracts prepared on Form MF-200A, therefore, we recommend that payment be made for 75 percent of the amount reported by the Operator on Form MF-104, contingent on your verification of arithmetical accuracy within the report.

REMARKS

Date of Report----------December 2, 1955
Date Received in Field Office---December 2, 1955
Date Received in Region Office-December 12, 1955

E. E. Hartmann

JDC:pw
cc: E866 MF-104 File
Shaw (2)
Sec.Op.Comm. (2)
Chron

Region III

Building 20
Denver Federal Center
Denver 2, Colorado
December 12, 1955

Memorandum

RECEIVED
DEC 1 9 1955

To: Executive Officer, DMEA Field Team, Region III

Through: John F. Shaw
Supervising Mining Engineer

From: C. M. Harrer

Subject: DMEA 3830, Contract Idm-8866 (Uranium) Foothills Mining Company, Boulder County, Colorado - Progress report for November 1955

Progress under the contract for the month of November was inspected on December 8, 1955, in the company of Messrs. H. L. Bird, Duane Kraft, F. W. Gapter and Verne Wilcox, members of the company.

Drifting along the radioactive structure progressed 64 feet for the month for a total of 102 feet of drift to date. Total drifting measured on December 8, 1955 was 126 feet. The operator's advance of 64 feet for the month is, therefore, allowed.

Mine assays are substantiated by certificates from the M. E. Wood Assaying Co., and are allowed at the contract rate for the operator's total of $27.00.

Drifting continued along a well defined shear, dipping 65° to 70° NE, throughout the month and disclosed radioactive material from a few inches to 5 feet wide. The company has taken several samples with results shown in their very complete narrative report. At the time of the examination, members of the Denver branch of the Atomic Energy Commission were engaged in sampling the radioactive zones. Their results will be available at a later date. A trial lot of 19,600 pounds of sorted material was trucked to the Rifle plant of the Union Carbide Nuclear (UNV Corp.) Company on November 9, 1955. This lot is reported to assay 0.26 percent U_3O_8, about 0.16 percent V_2O_5, and 22 percent lime. The high lime is due to the many calcite veinlets in the shear zone. The ore is not acceptable at Rifle due to its high lime content. The company is currently negotiating with the Atomic Energy Commission for an off-plateau contract.

Foothills Mining Company have correctly reported their advance for the month as 64 feet of drift. The narrative report and forms MF-104 and MF-104A are complete and correct and payment of $1,568.25, which is 75 percent of the total amount ($2,091.00) claimed as expenditures, is recommended for approval.

C. M. Harrer
Mining Engineer

cc 6
E366
Chron

CMH/cm

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1036.5

RECEIVED
DEC 19 1955

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of November, 1955 Docket No. DMEA 3830 Contract No. Lm- 866
Operator's Name Foothills Mining Company Minerals Uranium
Address 635 Northern Ave., Boulder, Colorado.
Contract Amount, $ 15,276.00 Government Participation 75 % Amount, $ 11,457.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Wood Timbering		$ 48.00	$ 48.00			
Bulldozing						
Crosscutting		3902.25	3902.25			
Drifting	$2064.00	1225.50	3289.50			
Assays	27.00	9.00	36.00			
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	$2091.00	$5184.75	$7275.75	2091.00	5184.75	7275.75

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

Date December 2, 1955 Payee Foothills Mining Company

Per H. L. Bird Title Vice President

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

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

(Instructions on reverse)

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

$ 1568.25

Signature RRa
(Authorized Certifying Officer)

Date 12-15-55 Vou. No. DMA-56-49
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. Idm-E866 in accordance with the terms of the contract.

Signature C. M. Herrer $1,568.25 Title Mining Engineer Date Dec. 12, 1955

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature For E. H. Buchman Title Acting Executive Officer Date DEC 14 1955

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
DEC 19 1955

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of November, 1955 Docket No. DMEA 3830 Contract No. Idm-866
Operator's Name Foothills Mining Company Minerals Uranium
Address 635 Northern Ave., Boulder, Colorado.

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drifting	Feet	$2064.00	64	$3289.50	102	$32.25	460	$14,835.00
Crosscutting	Feet			$3902.25	121	$32.25		
Raising								
Assays	Each	27.00	9	36.00	12	3.00	47	141.00
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Timbering	Feet			48.00	12	4.00	75	300.00
TOTAL DISTRIBUTED COSTS		$2091.00		$7275.75				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								$15,276.00
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		$2091.00		$7275.75				$15,276.00

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

Date December 2, 1955 Operator Foothills Mining Company

Per H. L. Bird Title Vice President

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

(Instructions on reverse)

REMARKS:

(For Government use only)

C. M. Harner

INSTRUCTIONS

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

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

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

GPO 872894

REPORT OF PROGRESS MADE UNDER D.M.E.A.
CONTRACT ON THE WRIGHT LEASE,
FOOTHILLS MINING COMPANY

During the month of November, 1955 drifting on the footwall vein was continued along a well-defined fissure to a point 102 feet from the mark established by Mr. Harrer as a basis for drift measurements. Since payment under the contract for the month of October was made on 38 feet of drifting, 64 feet is used in computing the November costs although, according to our measurements, the starting point for November work was at 38.5 feet from the point of beginning.

This work has disclosed encouraging amounts of uranium ore and the drift is now less than twenty feet from the computed position of drill hole No. 3.

A slabbing round to prospect the hanging wall side of the drift at 42 feet from the crosscut disclosed a body of commercial grade ore which had a maximum width of over four feet and extended about 17 feet north-west along the vein, gradually tapering to a width of six to eight inches. The south-easterly end of this shoot has not been determined but compass readings on its walls indicate that it is narrowing in that direction. Selected samples, No's 4 and 5, with a uranium content of 1.577% U_3O_8 and 0.279% U_3O_8 respectively were taken to indicate the value of the most radioactive and moderately radioactive portions of this body where discovered and the pulps were retained to aid in determining the relationship between radiometric and chemical assays. Assay No. 6, also from this point, was a channel sample cut by the writer over a width of 3 feet with a value of 0.79% U_3O_8.

Assays No's 7 and 8 were taken at 48 feet from the crosscut. No.7 across 3 feet of fine grained breccia which, like that at 42 feet, has been fractured and mineralized. No uranium minerals were observed but a darker gray color along small seams suggests the possible presence of very finely disseminated pitchblende. This assayed 0.517% U_3O_8. Sample No. 8, across 20 inches of altered gneiss and schist on the footwall side of the vein yielded results of 0.047% U_3O_8.

Sample No. 9 was taken at 51.5 feet from the crosscut over 3 feet of mineralized breccia which showed a coarser texture than the previous samples and assayed 0.249% U_3O_8.

The vein material thruout the rest of the drift varies from a few inches up to 24 inches. Commonly there is a narrow but quite radioactive portion along the fault plane, dark gray to black in color with veinlets of calcite and a few areas of oxidation even at the considerable depth where the vein is exposed. Assay No. 10 was obtained from selected material from this streak and gave a result of 3.247% U_3O_8.

At 76 feet from the crosscut a channel sample, No.11, over 18 inches which included both the richer part and the poorer breccia on the footwall assayed 0.10% U_3O_8 and a similar section at 79 feet gave an assay of 0.234% U_3O_8. Assay No.12

A sample lot of almost ten tons was shipped by truck to the Rifle plant of the Union Carbide Nuclear Company on November 9th after a telephone conversation with Mr.T.S.Ary, plant superintendent, had brought out the advisability and necessity of large scale sampling and an amenability test. This lot assayed 0.26% U_3O_8. Neither the seller's pulp sample or the settlement sheet have yet been received.

This ore came from the occurrence of fine grained breccia described above. Conditions prevailing at the time of shipment prevented careful sorting but by better handling of the ore much waste rock can be thrown out and the grade of ore raised.

Due to the presence of 12% lime in the test lot the Rifle plant is unable to accept further shipments of this ore, so inquiry is being made to find a plant at which it can be milled.

Trusting that you will find this report satisfactory we remain

Yours truly

FOOTHILLS MINING COMPANY

BY W. L. Bird

Vice President

12-5-55 [illegible]

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

RECEIVED
DEC - 1 1955

224 New Customhouse
Denver 2, Colorado

November 29, 1955

Memorandum

To: Secretary to the Operating Committee, DMEA

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

Subject: Docket DMEA-3838 (Uranium), Contract Idm-E866, Foothills Mining Company, Wright Lease, Jefferson County, Colorado

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

In the Narrative Report the Operator recommends drilling to check the possibility of a better vein paralleling the drift where contract exploration work is in progress. The Operator was contacted in regard to this drilling and he has agreed to do the work at company expense.

E. M. Harshman

E. M. Harshman

Enclosures

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

RECEIVED
DEC - 1 1955

25th Floor Customhouse
Denver 2, Colorado

November 16, 1955

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA-3830 (Uranium), Contract Idm-2866, Foothills Mining Company, Wright Lease, Jefferson County, Colorado - Operator's Monthly Progress Report for October, 1955

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

Work has been completed as authorized by the contract. No documentation is required for work performed under contracts prepared on Form MP-200d, therefore, we recommend that payment be made for 75 percent of the amount reported by the Operator on Form MP-104, contingent on your verification of arithmetical accuracy within the report.

DETAILS

Date of Report ----------November 2, 1955
Date Received in Field Office----------November 2, 1955
Date Received in Region Office----------November 14, 1955

Enclosures

W. M. Traver

JDC:pw

cc: Sec.Op.Comm. (2)

By J. W. Thornton

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

RECEIVED
DEC - 1 1955

224 New Customhouse
Denver 2, Colorado

November 16, 1955

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA-3830 (Uranium), Contract Idm-E866, Foothills Mining Company, Wright Lease, Jefferson County, Colorado - Operator's Monthly Progress Report for October, 1955

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

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

REMARKS

Date of Report ----------November 2, 1955
Date Received in Field Office----------November 2, 1955
Date Received in Region Office---------November 14, 1955

Enclosures

W. M. Traver

JDC:pw

cc: Sec.Op.Comm. (2)

By J. W. Townsend

RECEIVED
DEC - 1 1955

REGION III

Memorandum

Building 20
Denver Federal Center
Denver 2, Colorado
November 10, 1955

To: Executive Officer, DMEA Field Team, Region III

Through: John F. Shea
Supervising Mining Engineer

From: C. M. Harrer

Subject: DMEA 3830, Contract Idm-2866 (Uranium),
Foothills Mining Company, Boulder, Colorado
Progress report for October 1955

Progress under the contract for the month of October was inspected on November 4, 1955, in the company of Messrs. H. L. Bird, Eugene Kraft, F. W. Gopter and Foster Wilson, members of the company.

The crosscut was completed with an advance of 55 feet for the month. Total crosscutting under the contract is 121 feet. A strong shear zone with a strike of N. 65° W. and a dip of about 70° N. E. was encountered 8 feet from the end of the crosscut. This shear structure is believed to be the objective to be drifted on. Upon completion of the crosscut, this structure was drifted on 12.5 feet at the time of inspection. The drift bears N. 65° W., along the strike of the limonite stained shear. The presence of uranium to date is spotty and low grade.

Foothills Mining Company have correctly reported their advance for the month as 55 feet of crosscut and 38 feet of drift. Three sets of timber were placed over a length of 12 feet as reported. In addition, three samples were sampled and are verified by an included statement from H. E. Wood, assayist. The narrative report and forms MF-104 and 104A are complete and payment of $2,292.19, which is 75 percent of the total amount ($3,056.25) claimed as expenditures is recommended for approval.

C. M. Harrer

C. M. Harrer
Mining Engineer

cc 6
Idm-2866
Chron.

CMHarrer

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

Budget Bureau No. 42-R1036.5

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

RECEIVED
DEC - 1 1955

Month of October, 1955 Docket No. DMEA 3830 Contract No. Idm-2866
Operator's Name Foothills Mining Company Minerals Uranium
Address 635 Hawthorn Ave., Boulder, Colorado
Contract Amount, $ 15,276.00 Government Participation: 75 % Amount, $ 11,457.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
~~XXXXXX~~ Timbering	$ 48.00		$ 48.00			
Bulldozing						
Crosscutting	1773.75	$2128.50	3902.25			
Drifting	1225.50		1225.50			
Assaying	9.00		9.00			
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	$3056.25	$2128.50	$5184.75			

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

Date November 2, 1955 Payee Foothills Mining Company

Per W. L. Bird Title Vice-President

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

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

(Instructions on reverse)

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

$ 2292.19

Signature [illegible]
(Authorized Certifying Officer)

Date 11-28-55 Vou. No. DMA-56-45

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. Idm-E866 in accordance with the terms of the contract.

Signature C.M. Harper $2,292.19 Title Mining Engineer Date Nov. 10, 1955

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature for W.A. Tower Title Executive Officer Date NOV 16 1955

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

RECEIVED
DEC - 1 1955

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of October 195 5 Docket No. DMEA 3830 Contract No. Idm-2866
Operator's Name Foothills Mining Company Minerals Uranium
Address 635 Southern Ave., Boulder, Colorado

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting	Feet	$1225.50	38	$1225.50	38	$32.25	460	$14,835.00
Crosscutting	Feet	1773.75	55	3902.25	121	32.25		
Raising								
Assays	Each	9.00	3	9.00	3		47	141.00
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Timbering	Feet	48.00	12	48.00	12	4.00	75	300.00
TOTAL DISTRIBUTED COSTS		$3056.25		$5184.75				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								$15,276.00
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		$3056.25		$5184.75				$15,276.00

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

Date November 2, 1955 Operator Foothills Mining Company

Per H. L. Bird Title Vice-President

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

REMARKS:

(Instructions on reverse)

(For Government use only)

C. M. Harrer

INSTRUCTIONS

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

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

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

GPO 872894

RECEIVED
DEC - 1 1955

REPORT OF PROGRESS MADE UNDER R.M.E.A.
CONTRACT ON THE WRIGHT LEASE,
FOOTHILLS MINING COMPANY

Work on the Wright lease during the month of October, 1955 began at 419.5 feet from the portal of the crosscut which was extended until the mineralized zone outcropping on the hill above was encountered and crossed. Drifting was started to the northwest on the footwall vein which was the most radioactive of several fissures in a zone of sheared and altered gneiss and schist about 20 feet in width where intersected by the crosscut. This drift was extended to a distance of 38.5 feet from the northwestern wall of the crosscut by October 31st.

Uranium mineralization in the part of the vein so far explored is irregular and as yet no body of commercial size and grade has been opened, although selected samples show enough radioactivity to indicate ore grade.

Where the footwall vein was intersected by the crosscut the most radioactive area was on the southeast side of the crosscut 12 to 18 inches above the floor. Here an assay over 6 inches of mineralized breccia and calcite veinlets ran 0.094% U_3O_8.

From about 9 feet to 16 feet from the crosscut the ground in the drift was shattered and stained with limonite and at 15 feet a vuggy, limonitic exposure of the vein in the roof of the drift gave a scintillator reading of .5 M/R. Several small fractures trending northward and dipping 70° to the east are present in the north east wall of the drift in this area and may have a relationship to the occurrence of uranium mineralization there.

At 21 feet the vein was narrower and harder with much lower radioactivity, .10 M/R in the upper part of the face. Not much change in this condition occurred until at a distance of 38.5 feet a hard breccia from 12" to 20" in width was disclosed which gave a maximum reading of .5 M/R with selected pieces more radioactive. This breccia has an irregular contact with the wall rock under it, but is sharply bounded by a gouge seam on its hanging wall.

Samples from this occurrence show a distinct resemblance to the cored samples from drill hole No. 3.

Radiometric readings on the northeast wall of the drift taken November 1 about 42 feet from the crosscut were the highest yet recorded underground being read on the 5 scale of a 111 Scintillator according to a report from the men working in the drift. Sporadic evidence of uranium mineralization in the hanging wall side of the drift and the fact that two veins of ore occurred in hole No. 3 separated by several feet of rock leads the writer to recommend the immediate drilling of the walls, especially the hanging wall, to be certain that we are not drifting alongside a better vein.

The remainder of the footage

	Drifting	Actual Footage	Total
October 2	6'	5½'	
October 3	6'	4½'	
October 4	6'	5½'	
October 5	No round fired		
October 6	6'	5½'	
October 7	6'	5½'	
October 9	Timbering		
October 10	Timbering and track laying		
October 12	6'	5½'	
October 12	6'	3½'	
October 13	No round fired		
October 14	6'	5½'	16½'
October 17	No round fired		
October 18	6'	4½'	
October 19	No round fired		
October 20	6'	5½'	17½'
October 21	First drift round		
	6' slab state	4½'	
October 23	No round fired		
October 24	6'	5½'	10'
October 25	No round fired		
October 26	6'	5½'	15½'
October 27	6'	5½'	21'
October 28	6'	6'	27'
October 30	6'	6'	33'
October 31	6'	5½'	38½'

Trusting this report will be satisfactory, we remain

Yours since.

Foothills Mining Co.

H L Bird

by H. L. Bird,
Vice-President

HLB:ck

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

RECEIVED
OCT 24 1955

224 New Customhouse
Denver 2, Colorado

October 19, 1955

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: DMEA Docket 3830, (Uranium) Contract Idm-E866, Foothills Mining Company, Wright Lease, Jefferson County, Colorado

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

W. M. Traver

Enclosures

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

RECEIVED
OCT 24 1955

224 New Customhouse
Denver 2, Colorado

October 10, 1955

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region III

Subject: DMEA Docket 3830, (Uranium) Contract Idm-E866, Foothills Mining Company, Wright Lease, Jefferson County, Colorado - Operator's Monthly Progress Report, for the period September, 1955.

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

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

Remarks

Date of Report- - - - - - - - - - - - - - - - - October 3, 1955
Date Received in Field Office- - - - - - - - - October 5, 1955
Date Received in Region Office- - - - - - October 7, 1955

for W. M. Traver

Enclosures
JDC:jy
cc: MF-104 File E866
Sec. Op. Comm. (2)
Shaw (2)
Chron.

RECEIVED
OCT 24 1955

Building 20
Denver Federal Center
Denver 2, Colorado
October 6, 1955

REGION III

Memorandum

To: Executive Officer, DMEA Field Team, Region III

Through: John F. Shaw
Supervising Mining Engineer

From: C. M. Harrer

Subject: DMEA 3830, Contract Ida-2866 (Uranium),
Foothills Mining Company,
Boulder, Colorado - Progress report for September 1955

Progress under the contract for the month of September 1955 was inspected on October 4, 1955, in the company of Messrs. M. J. and Bunne Kraft, F. E. Gapter and Verne Wilcox, members of the company.

Advance of the crosscut for the month was 66 feet as reported in the company's narrative report and forms 104. Advance at the time of examination was 78 feet. The crosscut is being advanced through biotite and hornblende schist, portions of which include abundant pyrite, calcite, quartz and some pegmatitic material. No Geiger or scintillation counter was available to examine the walls of the crosscut.

Foothills Mining Company's narrative report and forms MF-104 and 104-A are complete and payment of $1,596.37, which is 75 percent of the amount claimed, is recommended for approval.

C. M. Harrer

C. M. Harrer
Mining Engineer

CMH:ph

cc 6 ✓
Ida-2866
Chron

Form MF-10[illegible] (Rev.)
[illegible]

Budget Bureau No. [illegible]

RECEIVED
OCT 24 1955

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of September, 1955 Docket No. DMEA 3830 Contract No. Idm-2866
Operator's Name Foothills Mining Co. Minerals Uranium
Address 635 Hawthorn Ave., Boulder, Colo.
Contract Amount, $ 15,276.00 Government Participation: 75 % Amount, $ 11,457.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent / Short Form } Contracts:						
Drilling						
Bulldozing						
Crosscutting	$2128.50	none	$2128.50			
Drifting						
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	$2128.50		$2128.50	2128.50		2128.50

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

Date Oct 3 *Payee Foothills Mining Co.

Per M. J. Krafft Title Sec. Treas.

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

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

(Instructions on reverse)

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

$1596.37

Signature [illegible]
(Authorized Certifying Officer)

Date 10/14/55 Vou. No. DMA-56-36
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. Idm-E866 in accordance with the terms of the contract.

Signature C. McHarrer $1,596.37 Title Mining Engineer Date Oct. 6, 1955

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature for W. M. Tuttle Title Executive Officer Date OCT 10 1955

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
OCT 24 1955

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of Sept. 1955 Docket No. DMEA 3830 Contract No. Idm-8866

Operator's Name Foothills Mining Company Minerals

Address 635 Hawthorn Ave., Boulder, Colo.

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting								
Crosscutting	Feet	$2128.50	66	$2128.50	66	$32.25	460	$14,835.00
Raising								
~~Shafts~~ Assays	Each						47	141.00
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Timbering	Feet						75	300.00
TOTAL DISTRIBUTED COSTS		$2128.50		$2128.50				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								$15,276.00
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		$2128.50		$2128.50				$15,276.00

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

Date Oct 3 Operator Foothills Mining Co

Per M. J. Kraft Title Sec. Treas.

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

REMARKS:

(Instructions on reverse)

(For Government use only)

C. M. Herrer

INSTRUCTIONS

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

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

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

GPO 872894

RECEIVED
OCT 24 1955

SUMMARY OF PREVIOUS WORK AND REPORT OF PROGRESS MADE UNDER D. M. E. A. CONTRACT ON THE WRIGHT LEASE, JEFFERSON COUNTY, COLORADO

In September, 1954 observation of favorable geologic structures and formations led to the discovery of a radioactive vein outcropping on a low hill south west of Idledale, Colo. Prospecting by bulldozing and, later, coredrilling disclosed the presence of uranium ore in sufficient quantity to justify more exploration. Study of conditions finally led to the decision to explore the occurrence by a cross cut tunnel which the expensive had certain definite advantages over other means of opening the deposit, principally, ease of disposing of waste material and freedom from interference with the State Highway right-of-way. Work was begun on this crosscut prior to the negotiation of the D. M. E. A. Contract so the starting point for the beginning of Government participation was set at a distance of 353.5 feet from the portal of the crosscut.

The equipment in use at the present time includes a new 210 cu. ft. Ingersoll-Rand rotary compressor, a new Ingersoll-Rand heavy duty jackhammer and jackleg, ventilating fan, about 400 ft. of 14" sheet metal air duct and 200 ft. of 6" metal duct, tool house and tools, two mine cars and about 1200 lineal feet of 30 lb. mine rail. *Also an Emico mucking machine*

Work on the company's account began about June 15, 1955 and good progress was made during June, July and the early part of August, two shifts being employed during most of that time. Word having been received from the Washington office of the D. M. E. A. that a contract was in preparation and had a good chance of final approval, work was suspended at about the 350 foot mark. On September 15th, 1955 a few days after we received the contract, Mr. Harrer of the Denver office field team visited the property and established a starting point for government participation at 353½ ft. Work under this contract was begun the same day and the breast stood at 358 feet that evening. The machineman's record of progress day by day is as follows:

Sept. 16 - Previous round pulled well. Put in rails and drilled 6 foot round.
Sept. 18 - Previous round satisfactory. Drilled and shot 6 foot round. Rock was harder.
Sept. 19 - Previous round only made 4½ feet. Rock black schist or hornblende. Drilled and shot 6 foot round.
Sept. 20 - Previous round pulled 6 feet. Rock changed. Some not so hard. 20 feet pulled to date. Drilled and shot 6 foot round.
Sept. 21 - Melvin and Duane Kraft started working early shift. Both shifts pulled good rounds. Had no air last part of shift.
Sept. 22 - Trouble with fan motor again. Kraft had trouble with equipment so did not fire his round. Second shift finished drilling out and shot.
Sept. 23 - Fan motor not fixed til noon. Kraft did not work. No round shot. Mucked out and laid track. Total footage - 395.5 this date.

Sept. 25 - Drilled and shot 6 foot round, air pipe would not clear drift. Ground not too hard.

Sept. 26 - Previous round gained 5½ feet. Drilled 6 foot round. Rock was schist.

Sept. 27 - Previous round pulled 5½ feet. Drilled 6 foot round and shot. Rock was schist.

Sept. 28 - Drilled 6 foot round. Shot - did not sound right.

Sept. 29 - Previous round did not pull - only 3 foot advance. Drilled 10 holes and jackleg broke down. Went to Denver for parts. Fixed fan motor. Did not make a round.

Sept. 30 - Finished round and shot. Fan worked good. Mucked out at 3:00 p.m. Total footage to date - 419.5 - to breast or 66 feet advance from starting of contract.

During the driving of the crosscut prior to the contract, three radioactive occurrences were discovered. The first at about 32 feet from the portal was a nearly vertical shear-zone showing a low degree of radioactivity in its central seam. Its course is about N-35° W. Another area of radioactivity is about 50 feet toward the portal from the first set of timbers inside the crosscut. It has not been thoroughly studied but does not seem to be important. The third occurrence is a definite breccia varying from a few inches to almost three feet in width. A selected assay that included more than the richest portion gave an assay of 0.17% U_3O_8, Chem. We believe that this vein merits further exploration since it seems to be widening and increasing in value in its upper portion where exposed.

Formations encountered in the sixty-six feet driven under this contract include biotite schist, hornblende gneiss and pegmatites, some of which show a low degree of radioactivity. The schist in this portion of the crosscut is impregnated with pyrite, minor amounts of chalcopyrite, and glassy quartz. The hornblende gneiss has not been mineralized as strongly as the schist.

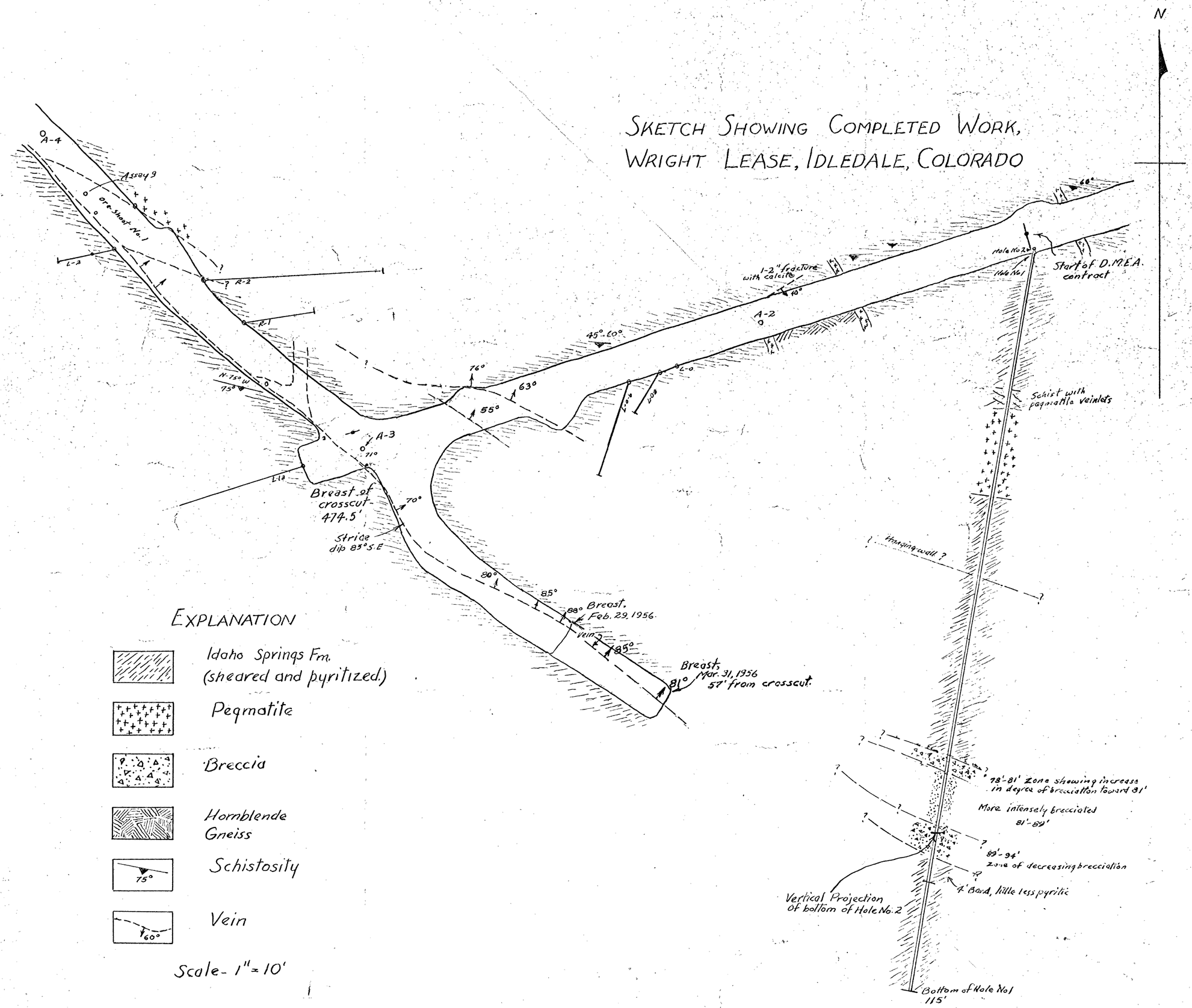
At the time this report is being prepared further work in the crosscut has indicated that we are approaching the vein. The ground is fractured, a water filled fissure was encountered and some radioactivity observed in the face before the last round was fired.

Sincerely,

Foothills Mining Co.

By: H. L. Bird

SKETCH SHOWING COMPLETED WORK, WRIGHT LEASE, IDLEDALE, COLORADO



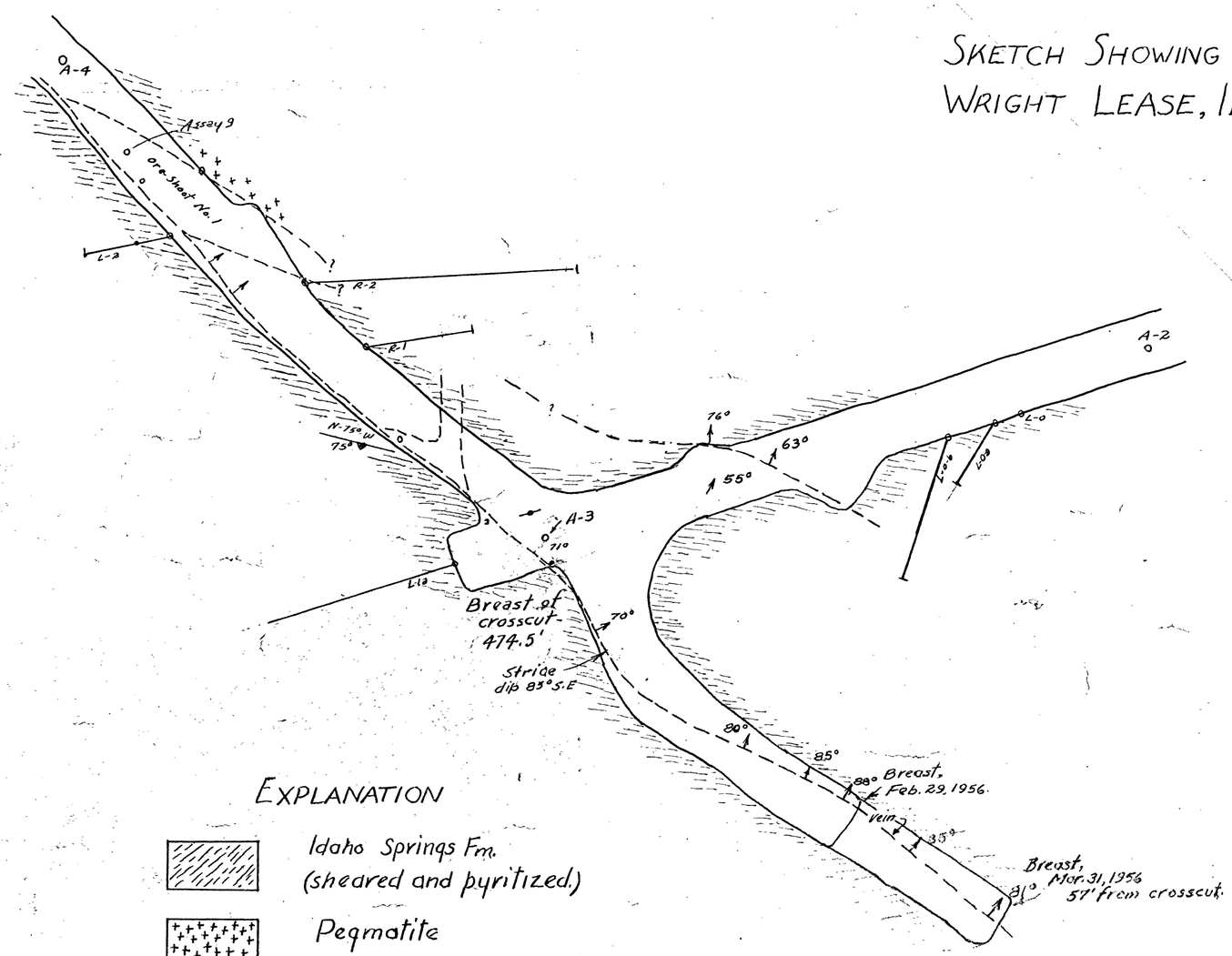
EXPLANATION

- Idaho Springs Fm. (sheared and pyritized.)
- Pegmatite
- Breccia
- Hornblende Gneiss
- Schistosity (75°)
- Vein (60°)

Scale- 1" = 10'

Foothills Mining Co.
by H.L. Bird

Sketch Showing Completed Work, Wright Lease, Idledale, Colorado



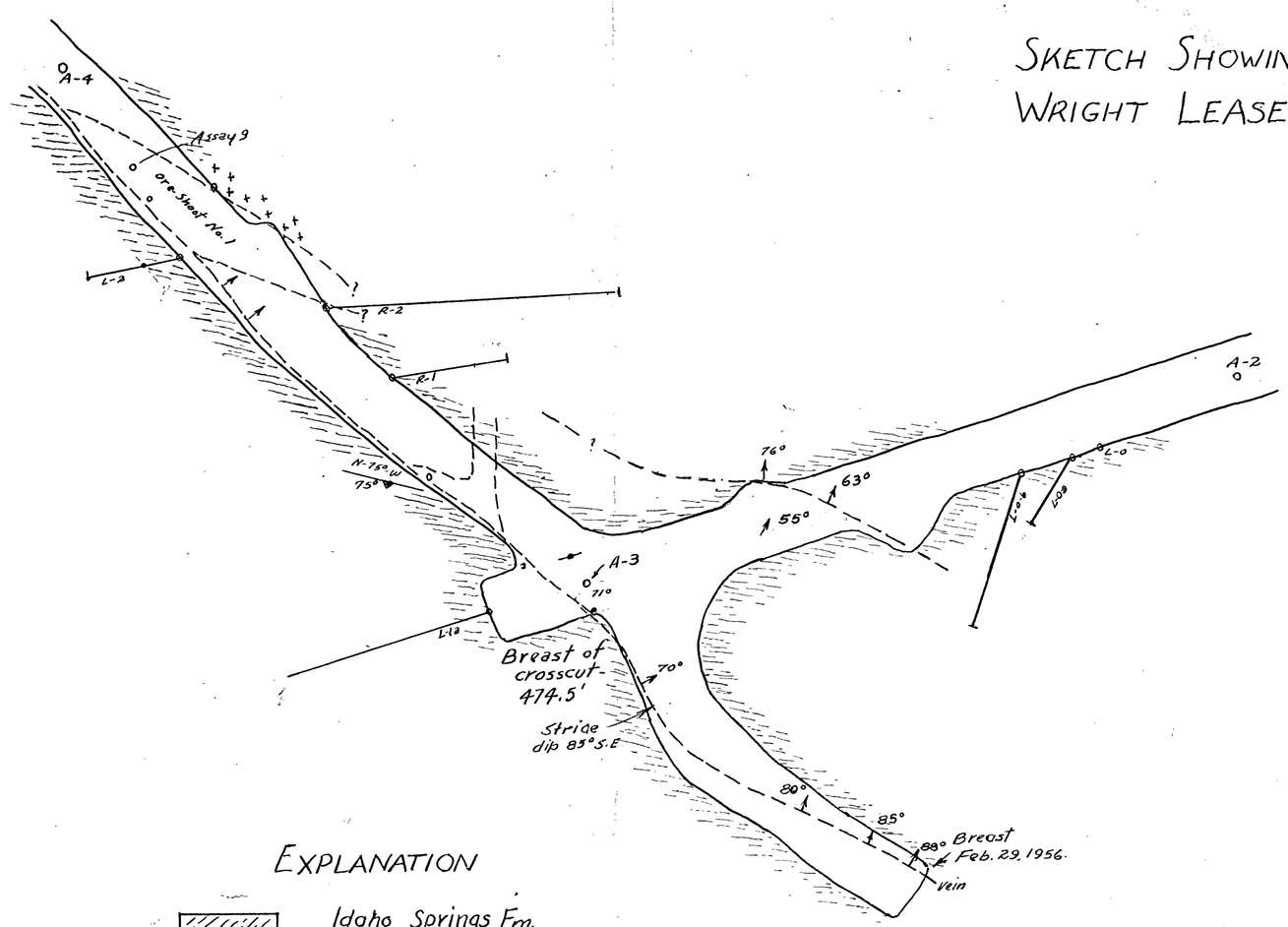
Explanation

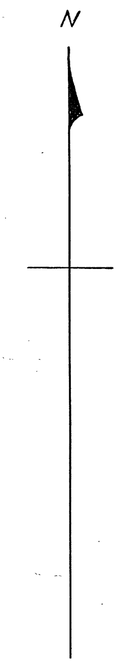
- Idaho Springs Fm. (sheared and pyritized.)
- Pegmatite
- Schistosity (75°)
- Vein (60°)

Scale- 1" = 10'

Foothills Mining Co.
by H.L. Bird

Sketch Showing Completed Work, Wright Lease, Idledale, Colorado





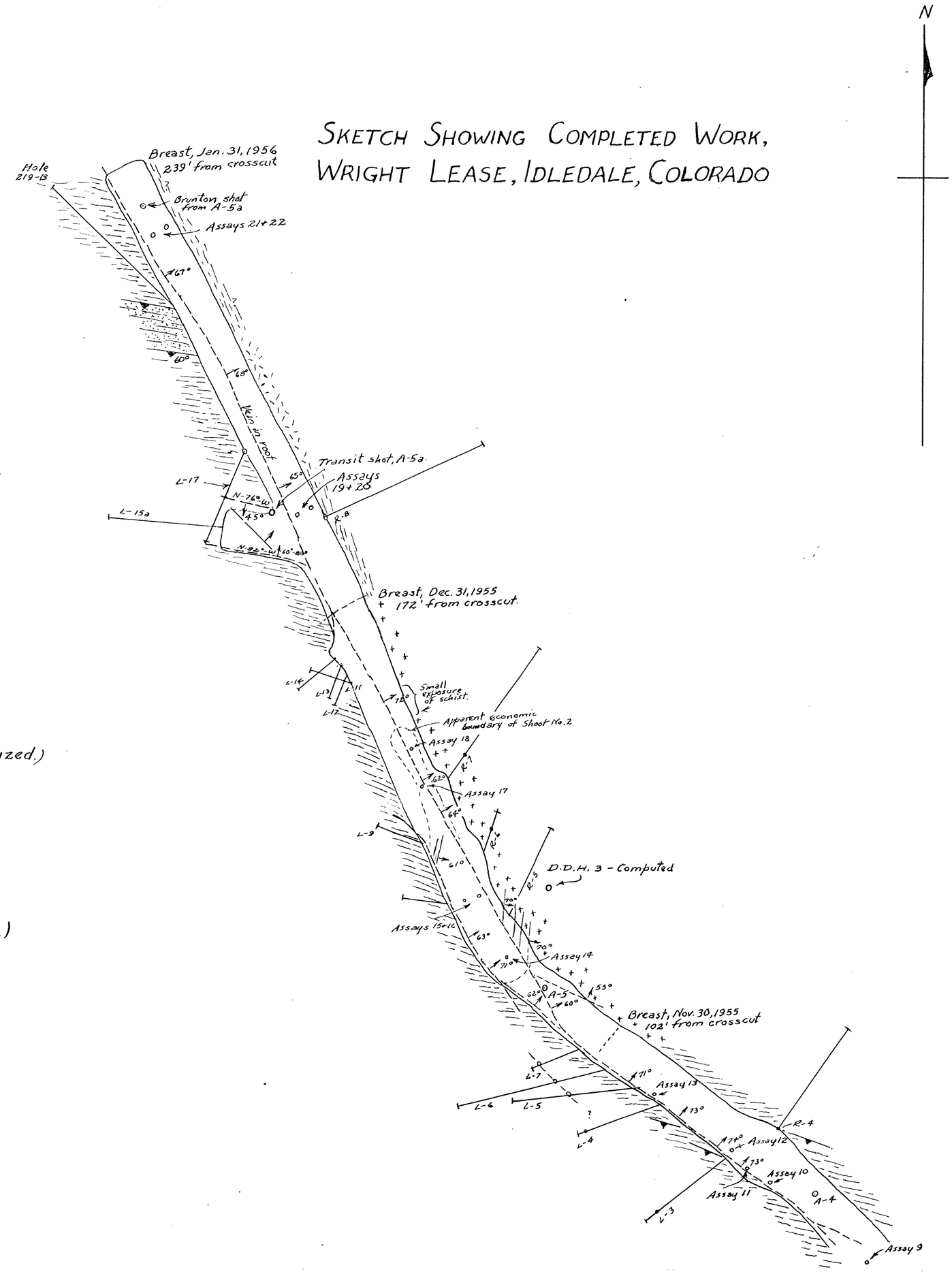
Explanation

- Idaho Springs Fm. (sheared and pyritized)
- Pegmatite
- Schistosity (75°)
- Vein (60°)

Scale- 1" = 10'

Foothills Mining Co.
by H.L. Bird

Sketch Showing Completed Work, Wright Lease, Idledale, Colorado



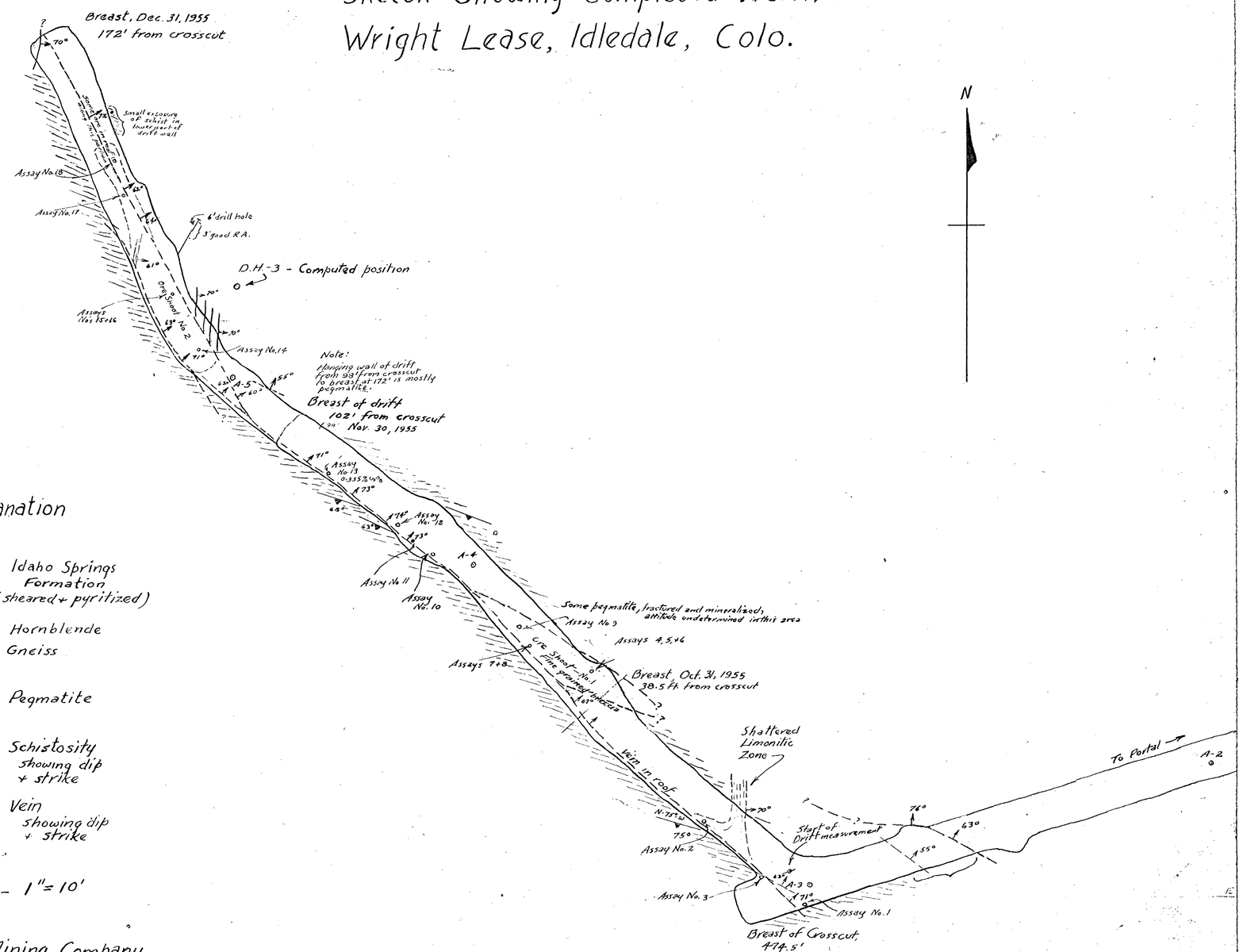
Explanation

- Idaho Springs Fm. (sheared and pyritized.)
- Pegmatite
- Aplite
- Skarn (band in Idaho Springs Fm.)
- Schistosity (70°)
- Vein (60°)

Scale - 1" = 10'

Foothills Mining Co.
by H.L. Bird

Sketch Showing Completed Work.
Wright Lease, Idledale, Colo.



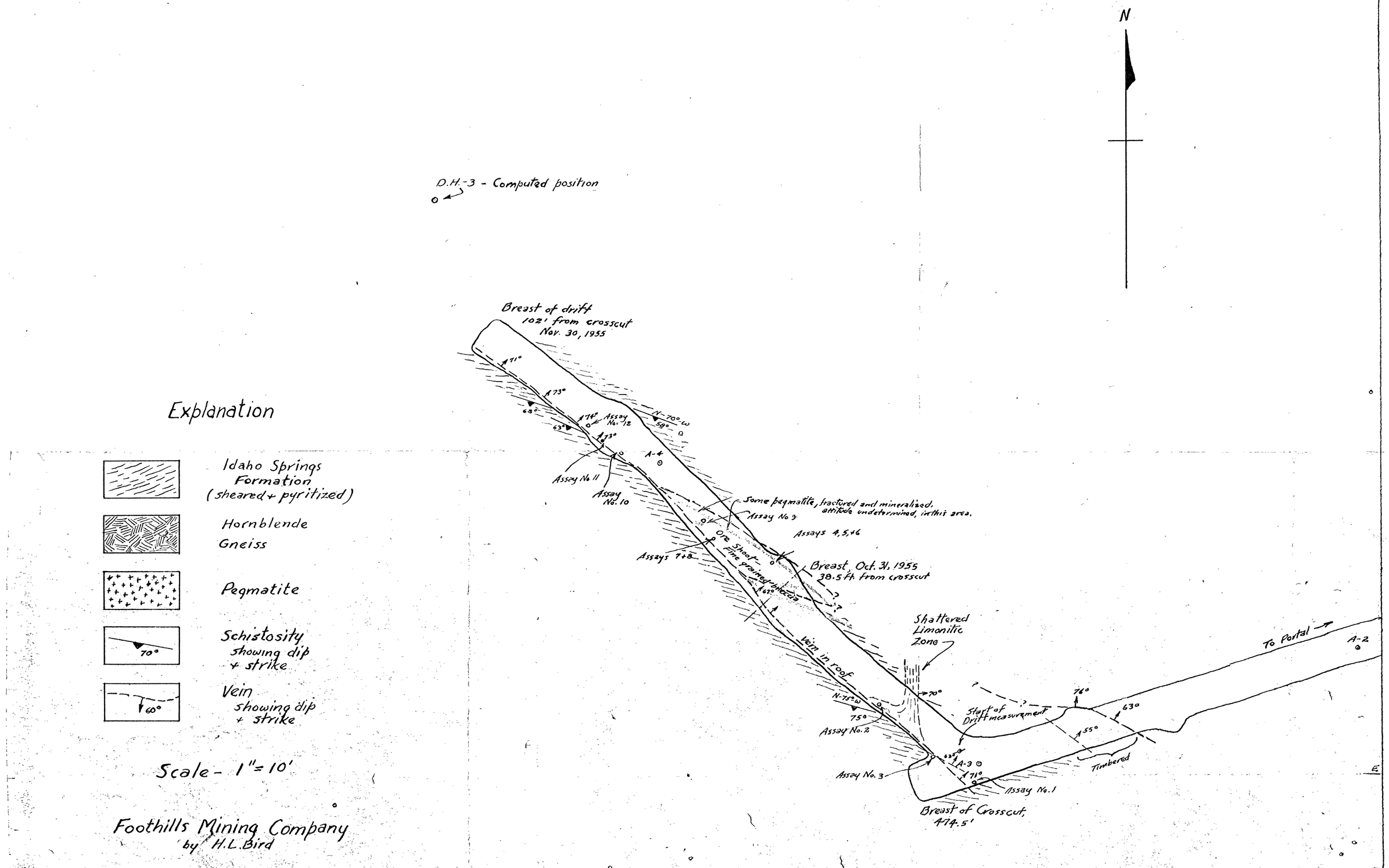
Explanation

- Idaho Springs Formation (sheared + pyritized)
- Hornblende Gneiss
- Pegmatite
- Schistosity showing dip + strike
- Vein showing dip + strike

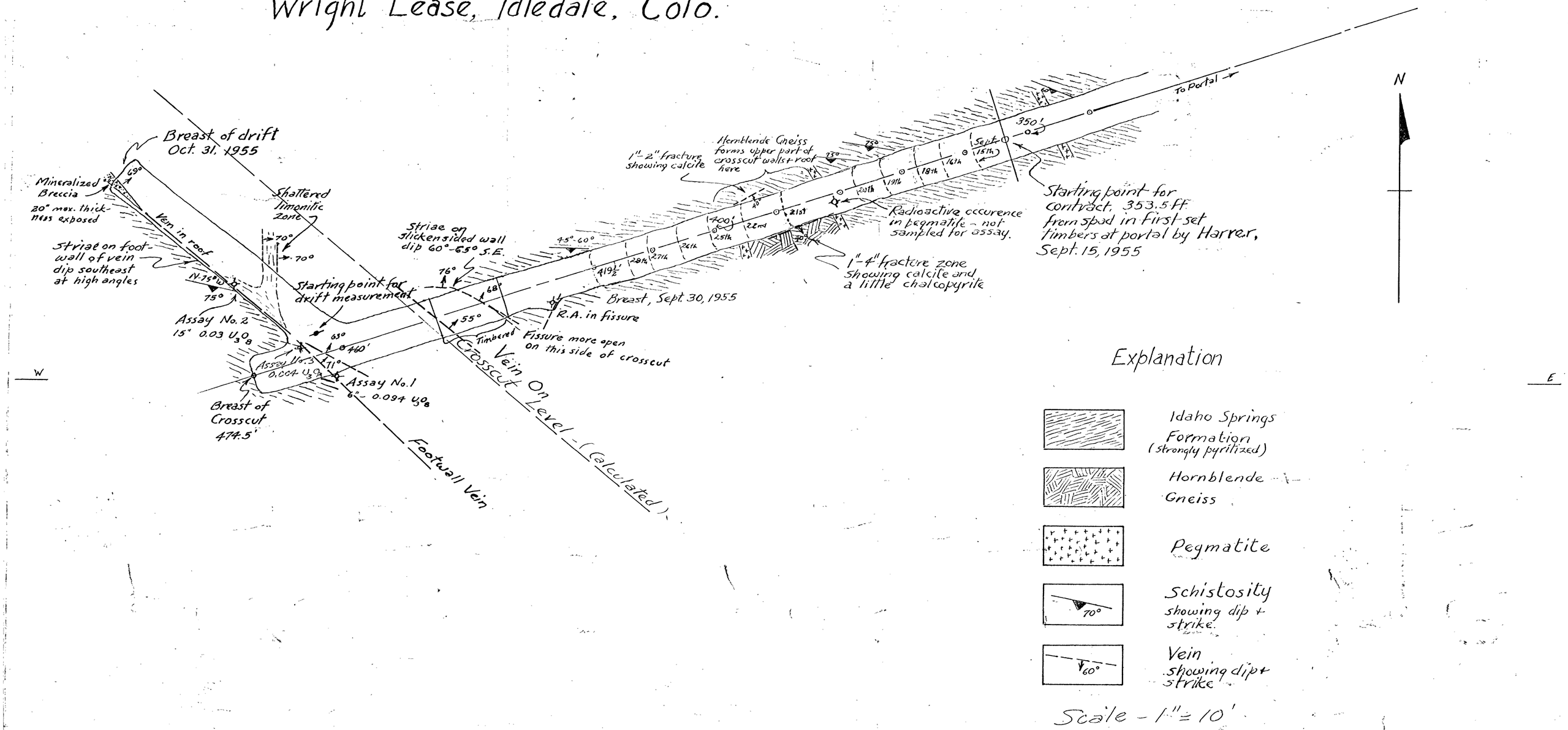
Scale - 1" = 10'

Foothills Mining Company
by H.L. Bird

Sketch Showing Completed Work.
Wright Lease, Idledale, Colo.

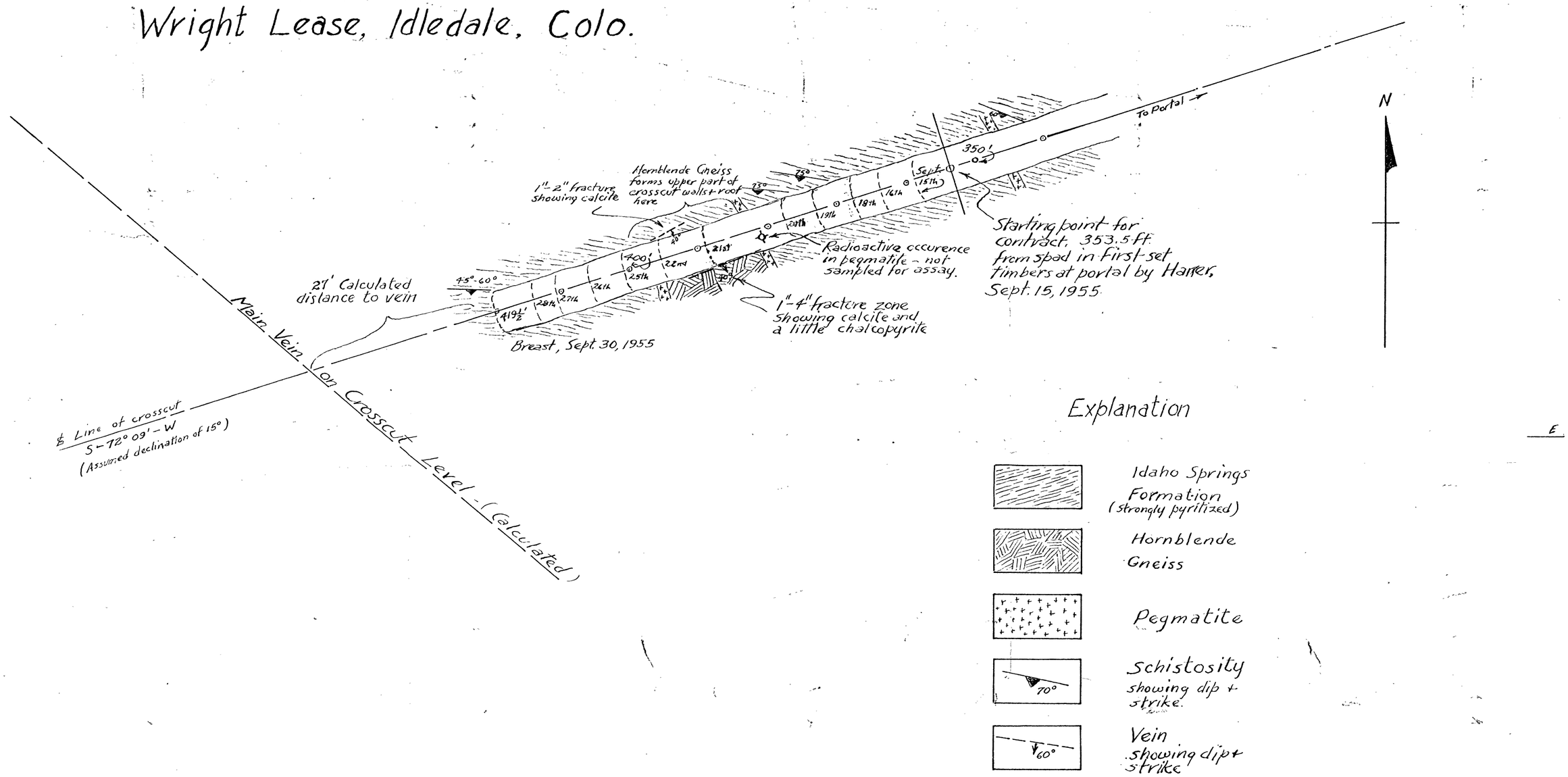


Sketch Showing Completed Work, Wright Lease, Idledale, Colo.



Foothills Mining Company
by H. L. Bird

Sketch Showing Completed Work, Wright Lease, Idledale, Colo.



Foothills Mining Company
by H.L.Bird