Dma-1113

1. [illegible] Chrisman [illegible] Milling Corporation, [illegible] Early Ave., Albuquerque, N. M.

   a. Minor Products of Columbite and rare earths
   b. Location - Rio Arriba County New Mexico, T.27 N. Range [illegible]

2. Production of Columbite from Pegmatite reported.

   History & Geology

   [illegible] District in northern New Mexico contains a great number of pegmatites. Bureau of Mines [illegible] Bulletin 25, compiled in 1906 covered this District secured some domestic resources of the [illegible] minerals. During World War II some mica mining was conducted and these minor minerals were found in the pegmatites.

   During the summer of 1950, the present owners of the property started to do some exploration and discovered an appreciable amount of columbite and rare earths in the form of a placer deposit. Several sites have been sunk to bed-rock and complete sampling has been done. The mineral columbite is found in the gravel beds. To date nearly [illegible] test pits have been sunk. The mineral is found in different sizes ranging from about one-quarter to plus one-quarter inch in diameter. The final block sands contain about [illegible] columbite and other rare earths.

   Approximate twenty thousand tons of ore has been blocked out by test conducted thus far which should average about [illegible] lbs of ore containing columbite per ton of mixed run gravel.

3. The proposed work for which a loan would be required is for the installation, buying [illegible] machinery, mining the gravel etc. This plant would contain all necessary screening equipment, jigs and concentrating tables such as used in placer operations.

   The cost of such a plant, including excavating equipment, and trucks has been estimated would be about [illegible],973.00. The plant would have a capacity of [illegible] tons.

   Operating costs have been estimated at [illegible]150.00 per day for 8 hour shift. This includes labor, taxes, and plant depreciation.

   Recovery of concentrates - columbite and rare earths are based at [illegible] per ton of back run gravel or [illegible] per day.

   Explored ore in place has been estimated at 20,000 tons.

   a. Map of explored area enclosed.
   b. List of major equipment:

1 - Caterpillar tractor complete with loader and excavating attachment.	18,000.00
1 - 6 ton truck	5,100.00
Jig, flotation cells, conveyors, screening tables, motors, installation and freight.	19,373.00
Total	[illegible],973.00

   c. Water facilities are enough for 100 ton plant.
   d. [illegible] drivers, caterpillar operator, 2 unskilled labors, and 1 foreman.
   e. Labor available in area. Housing available also. (Modern facilities)
   f. Location of mill [illegible], N. M. Distance 2.3 miles from property to mill on a good dirt road. Transportation by truck.
   g. Production of finished product about 600 lbs daily.
   h. 30 days will be required to erect and get plant ready.
   i. Trucks can drive into property, no roads have to be built.
   j. The price of the two combined concentrates, columbite and tantalite of mine grade is at 1.25 per pound f.o.b Santa Fe, N. M.

4. Ore Reserves

a. Measured ore 12,000 tons of 2/5 of 1 percent average or 8 lbs to a ton. of mineral columbite.

b. Measured approximate Indicated ore 8000 tons, same as above.

c. inferred ore 15,000 tons and grade of 1/3 of 1 percent.

5. General Geological Report of area by Bureau of Mines, Socorro, N.M. Will have one ready by Dec. 1st, 1950 (Sampling of mines)
6. Mining Corporation now actively engaged in exploration work. Present management employed previously by large mining company.
7. Additional data:

Samples	Area	Assayer	Cb205	Ta205	Combined Oxides
1	South	VC Co.	40.03	15.63	54.76
2	North	Ledoux	51.03	22.35	74.28
3	South	Colorado Assaying Co	48.28	8.84	57.12
123	South	"	"	"	Uranium - 1.3%

Sampling Results

No.1. Central Area - cut south side of gulley 1' deep by 3' long
Gross weight - 55.0 lbs.
+ 1/4 clean columbite - .0946 lbs. or 176 or 3.4 /ton
(no runs on fine columbite)

No.2 Central Area
Small trench 30' North of No.1. Cut from 6" of clay underlying 1' of soild Sample washed than panned. about 95% clay.
Gross weight - - - 44.0
+ clean columbite - - - - .066 lbs - .16 - 3.2/ per ton.
+ monozite - - - - .003 lbs.- .0075 - .14/per ton.
(-) + 16 columbite - - - - .006 lbs -.0145 - .28/per ton.
- 16 columbite - - - - .190 lbs -.48 - 9.6/per ton.

No. 3 Central Area
50' down from above,
Gross weight - - - - - - - 62.0 lbs.

+ 1/4 clean columbite - - - - - - - .147 lb - .2375 - 4.74 /ton
+ 16 columbite - - - - - - .026 lb - .0125 - .84/ton
-16 Columbite - - - - - - - - - .017 lb - .2745 - 5.40/ton.

8, yes local Banks, no assistance.

Carefully Submitted,

Joseph A. Morris

Joseph A. Morris, Pres, and General Mgr.

Ima-1113

1. St Christopher Mining & Milling Corporation, [illegible] Hardy Ave., Albuquerque, N.M.

   a. Placer Deposit of Columbite & rare earths
   b. Location - Rio Arriba County New Mexico, T.27 N. Range 9 E.

2. Production of Columbite from Pegmatite reported.

History & Geology

Petaca Mining District in Northern New Mexico contain a great number of Pegmatites. Bureau of Mines & Mineral Resources, bulletin 25, compiled in 1946 stated that in this district occured some domestic resources of the minor pegmatite minerals. During World War II some mica mining was conducted and these minor minerals were found in the pegmatites.

During the summer of 1950, the present owners of the property started to do some exploration and discovered appreciable amount of columbite and rare earths in the form of a placer deposit. Several pits have been sunk to bed-rock and complete sampling has been done. The mineral columbite is found in the gravel beds. Todate nearly 200 test pits have been sunk. The mineral is found in different sizes ranging from minus one-quarter to plus one-quarter inch in diameter. The fine black sands contain about 25% columbite and other rare earths.

Approximate twenty thousand tons of ore has been blocked out by work conducted thus far which should average about 3lbs of ore containing columbite. per ton of mined run gravel.

3. The proposed work for which a loan would be required is for the installation, buying a washing plant, mining the gravel etc. This plant would contain all necessary screening equipment, jigs and concentrating tables such as used in placer operations.

The cost of such a plant, including excavating equipment, and trucks has been estimated would be about $34,373.00. The plant would have a capacity of 100 tons.

Operating costs have been estimated at $150.00 per day for 8 hour shift. This includes labor, taxes, and plant depreciation.

Recovery of concentrates - columbite and rare earths are based at $5.33 per ton of bank run gravel or $533.00 per day.

Explored ore in place has been estimated at 20,000 tons.

   a. Map of explored area enclosed.
   b. List of Major equipment:
      1. Caterpillar tractor complete with loader and excavating attachement. $12,500.00
      2. Two - 6 ton trucks 2,100.00
      3. Jig Plant, hoppers, conveyors, sorting tables, motors, installation and freight. 19,373.00

      Total 34,973.00

   c. Water facilities are enough for 100 ton plant.
   d. 2 truck drivers, caterpillar operator, 2 unskilled labors, and 1 forman.
   e. Labor availble in area. Housing available also. (no modern facilites)
   f. Location of mill at Petaca, N.M. Distance 2.3 miles from property to mill on a good dirt road. Transporation by truck.
   g. Production of finished product about 800 lbs daily.
   h. 60 days will be required to erect and get plant ready.
   i. Trucks can drive into property, no roads have to be build.
   J. The price of the two combined pentoxides, columbite and tantalite of mine grade is at $1.25 per pound f.o.b Santa Fe, N.M.

4. Ore Reserves

a. Measured ore 12,000 tons of 2/5 of 1 percent average or 8 lbs to a ton. of mineral columbite.

b. Measured approximate Indicated ore 8000 tons, same as above.

c. inferred ore 15,000 tons and grade of 1/8 of 1 percent.

5. General Geological Report of area by Bureau of Mines, Soccoro, N.M. Will have one ready by Dec. 1st, 1950 Sampling of 175 pits
6. Mining Corporation now actively engaged in exploration work. Present managment employed previously by large mining company.
7. Additional data:

Samples	Area	Assayer	% Cb_2O_5	% Ta_2O_5	% Combined Oxides
1	South	VC Co.	40.83	13.63	54.76
2	North	Ledoux	51.93	22.35	74.28
3	South	Colorado Assaying Co	48.28	8.84	57.12
123	South		"	"	" Uranium - 1.3%

Sampling Results

Nol. Central Area - cut south side of gulley 1' deep by 3' long
Gross weight - 55.8 lbs.
+ 1/4 clean columbite -.0946 lbs. or 17% or 3.4 #/ton
(no runs on fine columbite)

No.2 Central Area
Small trench 30' North of No.1. Cut from 6# of clay underlying 1' of soil. Sample washed than panned. about 95% clay.
Gross weight - - - 41.0
+1/4 clean columbite - - - - .066 lbs - .16% - 3.2# per ton.
+1/4 monozite - - - .003 lbs.- .007% - .14#/per ton.
(-1/4 + 16 columbite - - - .006 lbs -.014% - .28#/per ton.
- 16 columbite - - - .198 lbs -.48% - 9.6#/per ton.

No. 3 Central Area
50' down from above,
Gross weight - - - - - - - 62.0 lbs.

+ 1/4 clean columbite - - - - - - .147 lb - .237% - 4.74#/ton
-1/4 +16 columbite - - - - - .026 lb - .042% - .84#/ton
-16 Columbite - - - - - - - - .017 lb - .274% - 5.40#/ton.

8, yes local Banks, no assiatgnee.

Carefully Submitted,

Joseph A Torris

Joseph A Torris, Pres, and General Mgr.

Mining Division
Date Rec'd.

OCT 17 1952

BUREAU OF MINES
Denver, Colorado

MINING DIVISION
REGION IV

October 15, 1952

Mr. E. P. Kaiser
U. S. Geological Survey
Denver Federal Center
Denver, Colorado

My dear Mr. Kaiser:

Your letter of October 7 to our Mr. John H. Soule' has been referred to me for an answer. In regard to placers in the Petaca Mining District of Rio Arriba County, New Mexico, Mr. Soule' suggests that you read the report in Mr. Koschmann's files on the St. Christopher Columbite Placer, Docket DMA-1113. This report was written by Mr. John N. Faick of the Geological Survey and Mr. Soule', and gives sampling data, etc., on a placer deposit in the Petaca area.

Sincerely yours,

Walter R. Storms, Chief
Arizona-New Mexico Branch
Mining Division, Region IV

CC W. H. King
A. H. Koschmann
DMA-1113
DF

WRStorms:frj

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

SEP 10 1951

REGIONAL DIRECTOR'S
OFFICE
REGION IV
SEP 12 1951
BUREAU OF MINES
DENVER, COLORADO

Mr. Joseph A. Terris, President
St. Christopher Mining & Milling Corp.
809 Hardy Avenue
Albuquerque, New Mexico

Re: Loan - Placer Deposit
Rio Arriba County, New Mexico
Columbite - DMA-1113

Dear Mr. Terris:

Your application of May 2, 1951, for a development loan in the sum of $34,973, DMA-1113, has been carefully reviewed by the Minor and Rare Metals Branch of the Supply Division.

We regret to advise that your application must be denied at the present time because potential reserves are insufficient to justify the requested loan.

If your explorations encounter other areas of greater potentiality, we should be glad to be advised.

Yours very truly,

Tom Lyon

Tom Lyon, Director
Supply Division

J.T.S.

Merdon/mh 9-5-51
cc: Adm. Read. File
Lyon
Bourret
DMA docket file
Field Team, IV
Norton, USGS
Dietrich

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

SEP 10 1951

REGIONAL DIRECTOR'S OFFICE
REGION IV
SEP 12 1951
BUREAU OF MINES
DENVER, COLORADO

Memorandum

To: Administrative Management Division

Through: Director, Supply Division

From: Minor and Rare Metals Branch

Subject: Loan-Lease Permit
Rio Arriba County, New Mexico
Calendar - [illegible]

Under date of May 2, 1951, the St. Christopher Mining and Milling Corporation submitted the subject application, Form 1, for a development loan in the sum of $34,773.

Attached hereto find letter of even date addressed to applicant denying the application because of insufficient potential ore reserves as found by field team examination.

(a) Two copies of internal application.
(b) Two copies of Mr. Bourret's memo of May 3, 1951.
(c) Field team report and submittal letter.

J11

Weston Bourret
Weston Bourret, Chief
Minor and Rare Metals

Enclosure

EGordon/mh 9-5-51
cc: Adm. and. File
Lyon
Bourret
Horton, U.S.G.S.
Aldrich
Field Team, IV
LMA Docket Files

Approved:

Director, Supply Division

reattch

August 9, 1971

Memorandum

To: Leonard Niepoth, Executive Secretary
Pulaski Minerals Administration

From: DNR Field Team, Region IV

Subject: DNR Docket 1113, Mr. Christopher Columbus Zinser, Pulaski Mining District, Rio Arriba County, New Mexico

Enclosed herewith are original and two copies of the report as indicated above.

We concur with the findings of the examining team and recommend that the application for a development lease be denied.

F. T. Allgood, Alternate

A. H. Zumbrunn

Enclosures
One copy by Air Mail
Two copies by Regular Mail

Jd

cc: DNR - Surgical
Zumbrunn

Memorandum

To: W. R. Storms, Tucson, Arizona June 8, 1951

From: Silver City, New Mexico Field Office

Subject: Weekly Report - June 4-8, 1951

NEW MEXICO FIELD OFFICE

DMA-1113 - St. Christopher Mining and Milling Co. of American, Inc. - applicant. St. Christopher and St. John Tantalite, Columbite, and Rare Earth Placers, Petaca Mining District, Rio Arriba County, New Mexico.

The entire week was spent in concentrating 40 samples taken of the St. Christopher and St. John placers. All of the samples with 3 exceptions contained over one pound of non-magnetic concentrate per ton of sample. Tantalite as well as monazite was noted in the samples. Five selected samples were sent to Ledoux & Co. in New York for tantalum and columbium analyses. This was specified in the docket.

The report will be submitted upon receipt of sample analyses.

Time spent on DMA-1113: John H. Soule', 52 hours; W. L. Dare, 56 hours; Helen E. Soule' 0 hours.

John H. Soule'
Acting Supervising Engineer

cc Allsman, Denver
reader
092 Wkly Rpt.

Mining Division
Date Rec'd.
JUN 11 1951
BUREAU OF MINES
Denver, Colorado

Mining Division
Region IV

August 8, 1951

Memorandum

To: DMA Field Team, Region IV

From: Chief, Mining Division, Region IV

Subject: DMA Docket 1183, St. Christopher Columbite Placer, Petaca Mining District, Rio Arriba County, New Mexico

The examining team recommends denial of the above application for a development loan of $10,000 because the quantity of placer material is small and the chances of increasing the reserves are remote.

We agree with the examining team and recommend that the loan be denied.

Paul F. Allgeier

JFS:oj
cc: DMA files
Subject
Chronological
Koschmann

Mining Division
Date rec'd.
JUL 30 1951
BUREAU OF MINES
Denver, Colorado

Bureau of Mines
REGISTERED MAIL - RRR

W. H. Sterns, Tucson, Arizona

July 27, 1951

Silver City, New Mexico Field Office

Docket 1113, St. Christopher Columbite Placer, Rio Arriba County, N.Mex.

Attached is the above numbered docket.

Sorry I forgot to take this with me when I went to Tucson yesterday.

John H. Soule'
Acting Supervising Engineer

Encl.
cc Allsman, Denver
reader
file

Mining Division
Date Rec'd.
JUL 20 1951
Bureau of Mines

Bureau of Mines

W. R. Storms, Tucson, Arizona

July 17, 1951

Silver City, N. Mex. Field Office

Rough draft St. Christopher Ta-Cb placer, Rio Arriba County, N. Mex.

Enclosed is my rough draft of the St. Christopher Columbite Placers Docket DMA-1113. I though you would like to look this over then submit it to John Faick for his information and the data contained. I am also sending over under separate cover the three tracings for printing. We would like to have 2 prints each for this office.

It looks as if I will get there Monday for conference on this application. I will bring the Docket with me.

John M. Soule'
Acting Supervising Engineer

cc Allsman
reader
file

Mining Division
Date Rec'd.
JUN 26 1951
BUREAU OF MINES
Denver, Colorado

June 26, 1951

Memorandum

To: W. M. Traver, Jr., Chief, Colo. Br. Mining Div., Denver Federal Center, Denver, Colo.

From: Silver City, New Mexico Field Office, Box 1060, Silver City, N. Mex.

Subject: Hazen's St. Christopher Mining & Milling Corp. memo (DMR Docket 1113, Rio Arriba County, N. Mex.).

Thank you for the information contained in Hazen's memo on the St. Christopher Tantalite-Columbite and Rare Earth Placers in northern New Mexico.

We examined this property a month ago and have been unable to complete our report because of the lack of sample analyses.

The information on the spectographic work and other analyses is very welcome, and also the hint of personnel change in the company may be the reason we were unable to contact one of the former corporation officials.

John H. Soule'
Acting Supervising Engineer

cc Storms, Tucson
Alleman, Denver
reader
file

Mr Mullan file

6-308
(March 1947)

cc: P. T. Allaman

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

No. 1

Salt Lake City, Utah

Report to Mr. John H. Soule'

Chemical Laboratory Report

Date received June 15, 1951

Date reported June 22, 1951

Serial No.	DESCRIPTION	Lot No.	Ta_2O_5	Cb_2O_5	$(Ta+Cb)_2O_5$
	St. Christopher Columbite Placer, Petaca Dist., Rio Arriba County, N. Mex. DMA Docket 1115				
96880		3371			<0.1
81		3372			<0.1
82		3373			<0.1
83		3376			<0.1
84		3377	0.3	0.4	0.7
85		3378	6.4	3.4	9.8
86		3379			0.2
87		3380			0.2
88		3381	0.5	0.8	1.3
89		3382	0.2	0.4	0.6
96890		3383	1.2	1.9	3.1
91		3384			<0.1
92		3385			<0.1
93		3386			<0.1

Mining Division
Date Rec'd.
JUN 25 1951
BUREAU OF MINES
Denver, Colorado

U. S. GOVERNMENT PRINTING OFFICE 16—33553-3

Signed H. E. Peterson

6-303
(March 1947) cc: P. T. Allsman

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
Salt Lake City, Utah

No. 2

Report to Mr. John H. Soule'

Chemical Laboratory Report

Date received June 15, 1951

Date reported June 22, 1951

Serial No.	DESCRIPTION	Lot No.	Ta_2O_5	Cb_2O_5	$(Ta+Cb)_2O_5$
	St. Christopher Columbite Placer, Petaca Dist., Rio Arriba County, N. Mex. DMA Docket 1113				
96694		3390			<0.1
95		3391	2.1	3.0	5.1
96		3393			<0.1
97		3395			<0.1
98		3396			<0.1
99		3397	0.9	1.4	2.3
96700		3399	0.3	0.5	0.8
1		3400	0.4	0.7	1.1
2		3401			<0.1
3		3402	1.9	2.8	4.7
4		3403			<0.1
5		3405			<0.1
6		3406	0.4	0.6	1.0
7		3407			<0.1

U. S. GOVERNMENT PRINTING OFFICE 16—33553-3

Signed H. E. Peterson

6-303
(March 1947)

cc: P. T. Allsman

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
Salt Lake City, Utah

No. 3

Report to Mr. John H. Soule'

Chemical Laboratory Report

Date received June 15, 1951

Date reported June 22, 1951

Serial No.	DESCRIPTION	Lot No.	Ta_2O_5	Cb_2O_5	$(Ta+Cb)_2O_5$
	St. Christopher Columbite Placer, Petaca Dist., Rio Arriba County, N. Mex. DMA Docket 1113				
96708		3408			<0.1
9		3410			<0.1

U. S. GOVERNMENT PRINTING OFFICE 16—33553-3

Signed H. F. Peterson

more in this file
the same stamp?

2 yes — [illegible]

Denver, Colorado

W. M. Traver, Jr. W.M.T. June 21, 1951

S. W. Hazen, Jr.

St. Christopher Mining and Milling Co.

While talking with Richard S. Bloss, Jr., lawyer, Wiley Building, Del Norte, Colorado about their perlite deposit he mentioned another company property in New Mexico.

This is a columbite-tantalite placer deposit located northwest of Petaca, New Mexico. This is about 40 miles south of the Colorado border on U. S. 285. The company has done some test pitting on this deposit but nothing sufficient to determine its extent or value.

Bloss has seen the deposit and describes it as occurring in shallow, 4-foot, overburden material along gentle slopes of an arid country. He says he has found the columbite-tantalite sand over a distance of 1/4 mile involving two intermittent stream drainage areas, but he did not attempt to find the boundaries of the occurrence. He describes the ore as black sand from the size of golf balls down to fine sand grains. There may be some natural concentration due to wind as the country is arid and little water available.

Two sample assay returns were shown to me and I copied them. These were from black sand shoveled up from natural concentrations behind rocks and in gullies. Bloss hesitates to even consider them as typical samples because he does not believe the men doing the sampling were qualified to take accurate samples. A large sample was reported to have been taken and then quartered down to the few pounds shipped.

The first sample was sent to Kennametal and they reported as follows:

	percent
Cb_2O_5	51.93
Ta_2O_5	22.35
Fe_2O_3	6.03
TiO_2	3.01

WO_3 is given as 0.75% which is quite high and classed as an impurity.

Spectrographic		
Cb	major constituent	
Ta	major constituent (low)	
Mn	minor constituent	
Fe	minor constituent	
Ti	minor constituent	
Al	trace (high)	
Ca	trace (high)	
Si	trace (high)	
Zr	trace (high)	
W	trace (high)	
Na	trace (high)	
Mg	trace	---
Sn	trace	---
U	nil	---

SWH/m

The second sample was sent to the Colorado Assaying Company. Their return showed:

Tantalum Pentoxide	8.84%
Columbium Pentoxide	48.28%
Iron Oxide (ferrous)	13.75%
Manganese	8.78%
Tin Oxide	trace
Titanium Dioxide	4.85%
Uranium Oxide (U_3O_8)	1.26%

Note: A small percentage of rare earth elements are present.

The Colorado Assaying Company returned a portion of the head sample which was not used. Mr. Bloss gave this to me for our use as a sample. He would like to have a report of the contents as found by the U. S. Bureau of Mines laboratory.

Examination of the property can be made by contacting Edward J. Turner, Jr., 1502 Sunset Road, Albuquerque, New Mexico. The former contact man Mr. Joseph A. Torres is no longer associated with the company according to Bloss.

The area to be examined can be reached by jeep or truck. A jeep is more practical as it could be used to drive over the ground.

The Kennametal company offered to buy the product at 90¢ per pound with settlement to be based on 2000 pound lots.

The General Services Administration has been contacted a few months ago and will purchase but want a reputable engineering report on the extent of the deposit etc.

The company would need financial assistance to proceed with development of the property.

Scott W. Hazen, Jr.

cc: P. T. Allsman
General
Chron.
W. R. Storms - Tucson, Ariz.
J. H. Soule' - Silver City, N.M.

New Mexico Field Office
Box 1060, Silver City, New Mexico
June 11, 1951

Mr. S. R. Zimmerley
Chief, Metallurgical Division
& Intermountain Experiment Station
Region IV, Bureau of Mines
1600 East First South Street
Salt Lake City 1, Utah

DMA Docket 1113, St. Christopher
Columbite Placers, Rio Arriba
County, New Mexico

Dear Mr. Zimmerley:

Mr. Allsman of the Denver office suggested sending these samples of placer concentrates to you for analysis as they are urgently needed to complete a report with a Washington priority designation.

If your laboratory is not equipped to do this work, could you notify Mr. Allsman and he will advise on the disposition of the samples.

Sincerely yours,

John H. Soule
Acting Supervising Engineer

cc Allsman, Denver
Storms, Tucson
reader
file

T Met-6

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
Tucson Division Metallurgical Branch

SAMPLE REPORT

Date June 11, 1951

To: W. B. Zimmerley
Met. Div., Internat. Exp. Sta.
Bureau of Mines
1600 East First South St.
Salt Lake City 1, Utah

From: John H. Soule'
N. Mex. Field Office
Bureau of Mines
Box 1060, 103 W. Yankee St.
Silver City, New Mexico

Name and Location of Property:

St. Christopher Columbite Placer, Petaca Dist., Rio Arriba County, N. Mex. EMA Docket 1113.

Number of Samples in Shipment: 30 in 1 Pkgs. Total Weight 2½ lbs.

Shipped 6/11/51; GBL No. _____ Carrier Mail

Nature of Ore and general comments:

These are concentrates from samples taken of placer ground on above property. All samples contain better than 1 lb. of non-magnetic concentrates per ton of placer ground.

Identification of Samples with tests or analyses desired:

Sample Nos.		
	3371	3390
	3372	3391
	3373	3393
	3376	3395
	3377	3396
	3378	3397
	3379	3399
	3380	3400
	3381	3401
	3382	3402
	3383	3403
	3384	3405
	3385	3406
	3388	3407
		3408
		3410

Please analyse all for tantalum and columbium.

Please return all pulps.

John H. Soule', Acting Supervising Engineer

cc in package
Storms, Tucson
Allsman, Denver
file

Memorandum

To: W. R. Storms, Tucson, Arizona June 11, 1951

From: Silver City, New Mexico Field Office

Subject: DMA-1113, St. Christopher Tantalite placers.

As you suggested Friday, I called Denver to see what could be done about analysing the samples referred to above. The only one I could talk to was Christensen and he felt that we could stand $50 more or less for assaying. Therefore, I selected 5 samples and sent them to Ledoux. These may cause further delay in the report if the results indicate the remaining 32 samples should be analysed.

cc Allsman, Denver
reader
file

John H. Soule', Acting Supervising Engineer

May 18, 1951

Memorandum

To: W. R. Storms
C. A. Anderson

From: Field Team, Region IV

Subject: DMA-1113, St. Christopher Columbite Placer, Petaca District, Rio Arriba County, New Mexico. Joseph A. Terris, President and Manager, Applicant.

Enclosed is the brochure on the above application from Joseph A. Terris, 809 Hardy Avenue, Albuquerque, New Mexico, for $34,970 to erect a plant to recover columbite from gravels.

You will note that we have been instructed to give the investigation high priority and that samples are to be sent direct to Ledoux and Company in New York. A preliminary appraisal of adjoining area is requested in order to determine whether sampling should be extended.

Paul T. Allegan, Attorney

A. H. Koschmann
A. H. Koschmann

Enclosures

CC: W. D. McMillan
DMA File
Allegan File
A. H. Koschmann

PTA:fm

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

Mining Division
Date Rec'd.
AUG 6 1951
BUREAU OF MINES
Denver, Colorado

May 9, 1951

Mr. J. H. East, Jr. Exec. Officer
Defense Minerals Administration
224 New Customhouse Building
Denver 2, Colorado

Re: St. Christopher Columbite Placer
Petaca District, N.M. - DMA-1113

REGIONAL DIRECTOR'S OFFICE
REGION IV
1951
BUREAU OF MINES
DENVER, COLORADO

Dear Mr. East:

We are referring this application to your office for appropriate investigation and will so advise the applicant Mr. Joseph H. Torris, 809 Hardy Avenue, Albuquerque, N. M.

You will find herewith the following enclosures, ~~which may be~~ retained by your office.

(a.) Two copies of undated application report signed by J. A. Torris
(b.) One print each of plan maps showing location of pits and sampling results, scale 1" = 50 ft. dated October 28, 1950 and November 3, 1950.

Applicants Proposal

The applicant states he has tested by means of shallow pits approximately 20,000 tons of gravel and eluvial material containing a few pounds of columbite per ton; in addition he estimates 15,000 tons averaging about 2.4 lb. per ton. The supporting data show the location of nearly 200 test pits, with corresponding sample results. The deposit appears to consist of hillside eluvial gravels, with depth of detrital cover averaging approximately two or three feet.

A loan of $34,970.00 is requested to equip the property for operation; the figure includes $19,373 for washing plant and jigs to treat the gravels and $16,600 for trucks and excavating equipment.

Comments of the Committee

If this property contains anything like the reserves and values of columbite claimed, it deserves consideration and action by DMA to bring out this production. The ore reserve figures, while probably very optimistic, suggest the possibility of getting something in the order of 150,000 lbs. of acceptable grade columbite concentrates from this property. The combined

pentoxide grade is given as plus 55%, though the few analyses given may be misleading. Because of the unprecedented demand for columbite in the rearmament program, it is our understanding that Electro-Metallurgical Division of Union Carbide will accept material as low as 50% combined pentoxides, or possibly even less.

The field team is instructed to give this examination a high priority. Samples for analyses should be sent direct to Ledoux & Company in New York. Kindly advise also if your judgment of the sampling should be extended into adjoining areas so as to increase the potential yardage and production possibilities.

Yours very truly,

Tom Lyon

Chief, Coordinating Committee

Enclosure

Approved:

Oley Nelson

for the Survey

Lowell B. Moon

for the Bureau

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

[illegible]

[illegible]

Dear Mr. [illegible]

[illegible]

DIRECTOR'S
1951
DEN[illegible] COLORADO

[illegible]

[illegible]

[illegible]

[illegible] ates from this property. The combined

[illegible] grade [illegible], though the few analyses from [illegible] for [illegible] in the [illegible], it is our understanding that [illegible] low [illegible] 30% combined [illegible].

[illegible] high priority. Samples for analyses should be sent direct to [illegible] & Company in New York. Kindly advise [illegible], if [illegible] of the sampling should be extended into adjoining areas so as to increase the potential yardage and [illegible] possibilities.

Yours very truly,

Tom Lyon P.B.

Chief, [illegible] Committee

Enclosure

Approved:

Lowell B. Moon

For the Survey

Olaf N. Rove

For the [illegible]

[illegible]:hh
cc: Tom Lyon
Ad. Pending File
Mr. [illegible]
Field Team IV
Mr. [illegible]
Mr. Moon
Mr. [illegible]
Mr. [illegible]
Files

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

DIRECTOR'S
OFFICE
REGION IV
MAY 17 1951
BUREAU OF MINES
DENVER, COLORADO

/S/ Weston Bonnet
P.B.

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

1 7 1951

ates from this property. The combined

[illegible] though the [illegible] given may [illegible] understanding [illegible] for [illegible] in the [illegible] understanding that the [illegible] metallurgical [illegible] [illegible] low as 50% combined [illegible], or [illegible], even less.

The [illegible] [illegible], this [illegible] high [illegible]. [illegible] [illegible] direct to [illegible] a company in New York. Kindly advise also, if your [illegible] of the sampling should be extended with [illegible] so as to increase the potential yardage and rod [illegible] possibilities.

Yours very truly,

Tom Lyon

Chief, Coordination Committee

Enclosure

Approved:
Lowell B. Moon
for the Survey

Olaf N. Rove
for [illegible]

[illegible]
cc: Tom Lyon
[illegible], Working File
Mr. [illegible]
Field [illegible]
Mr. [illegible]
Mr. [illegible]
Mr. [illegible]
Mr. [illegible]
Files

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

REGIONAL DIRECTOR'S
OFFICE
REGION IV
MAY 17 1951
BUREAU OF MINES
DENVER, COLORADO

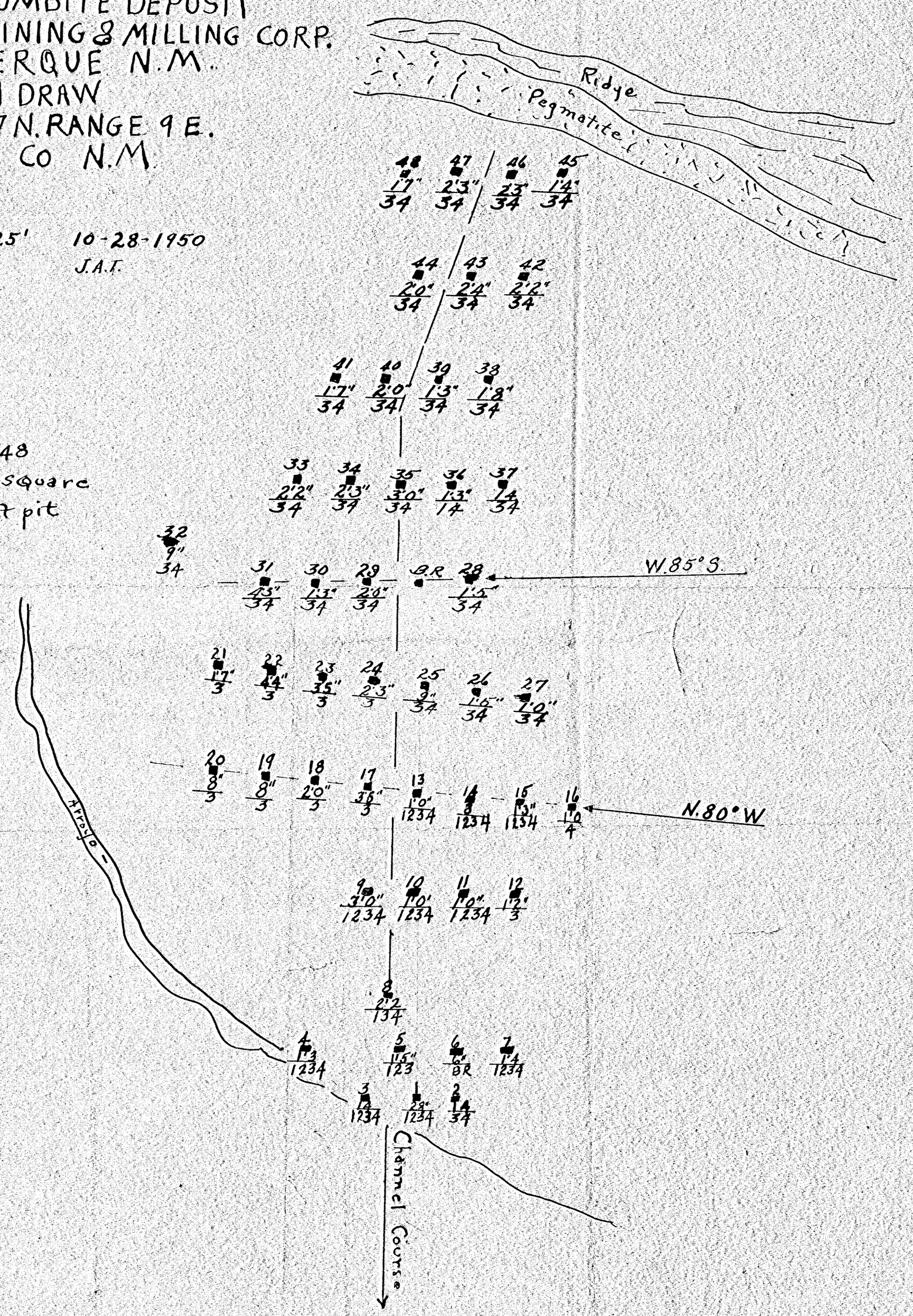
/S/ Weston Bount
P.B.

PLAT
EXPLORATION - COLUMBITE DEPOSIT
ST. CHRISTOPHER MINING & MILLING CORP.
ALBUQUERQUE N.M.
SOUTH DRAW
N ½ NW ¼ SEC. 6 T. 27 N. RANGE 9 E.
RIO ARRIBA CO N.M.

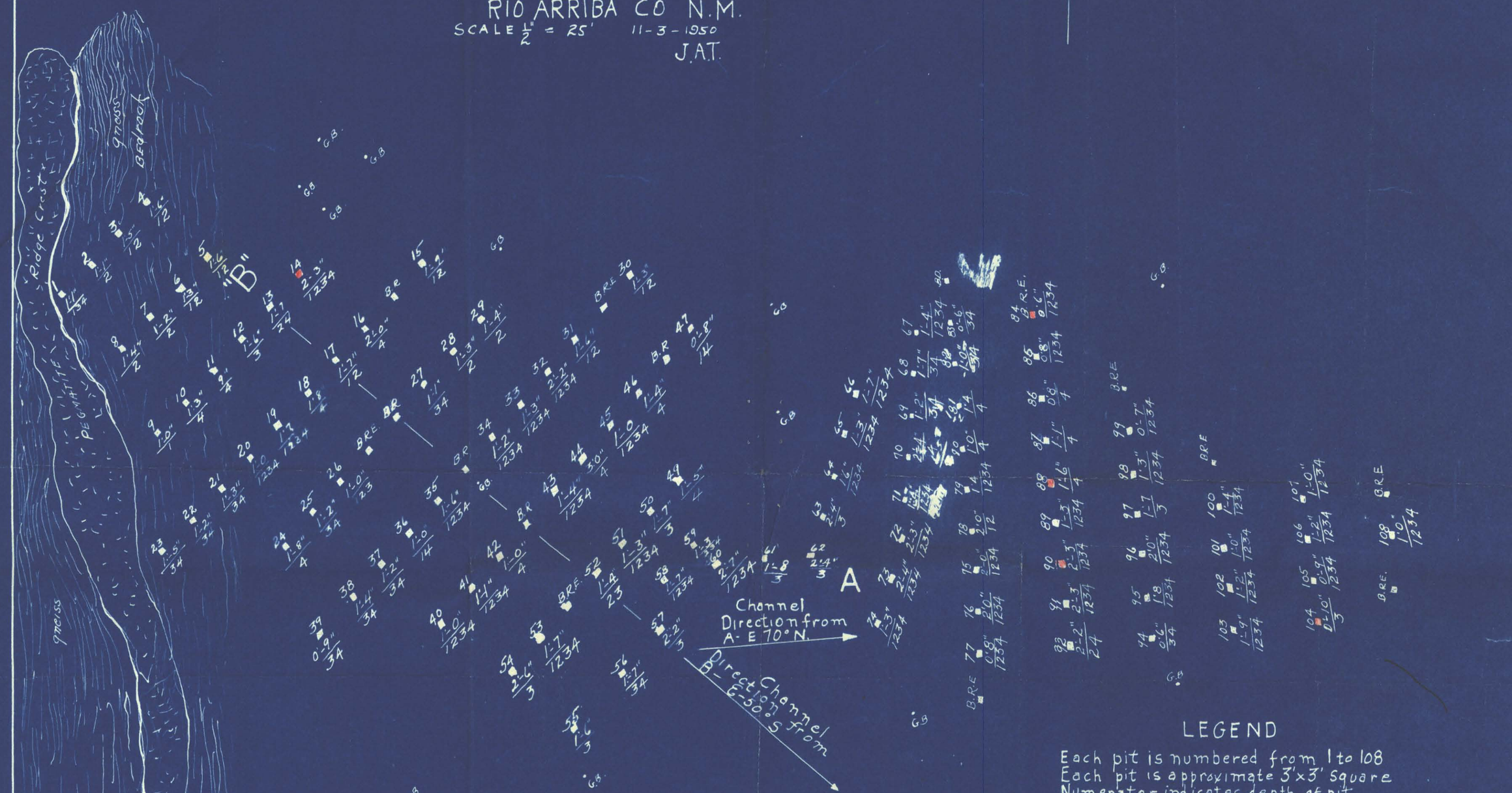
SCALE 1" = 25' 10-28-1950
J.A.T.

LEGEND

Each pit is numbered from 1 to 48
Each pit is approximate 3'x3' square
Numerator indicates depth of pit
Denominator indicates type
1 = Rock
2 = Coarse gravel
3 = Clay
4 = Fine gravel
B.R. - Bedrock



PLAT
EXPLORATION COLUMBITE DEPOSIT
ST. CHRISTOPHER MINING & MILLING CORP.
ALBUQUERQUE, N.M.
EAST DRAW
S-½ S-¼ SEC 31 T 27 N. RANGE 9 E.
RIO ARRIBA CO N.M.
SCALE ½" = 25' 11-3-1950
J.A.T.



LEGEND

Each pit is numbered from 1 to 108
Each pit is approximate 3'x3' square
Numerator indicates depth of pit
Denominator indicates type of earth
1 = Rock
2 = Coarse gravel
3 = Clay
4 = Fine gravel
E.B.R. = Exposed bed-rock
G.B = Gnessic Bedrock encountered at bedrock decomposed in most pits below red clay.