

BULLDOZER TRENCHING & SAMPLING PROGRAM

POTATO TUNGSTEN PROSPECT

DUBLIN GULCH, MAYO DISTRICT, Y.T.

October, 1968

Between October 9 and 23, 86 hours of bulldozing were completed at the head of Dublin Gulch in building one mile of winter trail and digging 24 trenches. A Caterpillar D7E with hydraulic U tilt blade was rented from placer miner Fred Taylor who resides a few miles downstream. Eighteen trenches are near the hand pits dug by Conrad Provencher earlier in 1968 and these are shown on the accompanying plan. They were dug in soil and weathered bedrock to an average depth of 5 feet. The volume moved in this area totals 4500 cubic yards. In addition, six trenches consisting of 500 cubic yards were dug elsewhere, two to the northeast towards Cascallen Creek, two on the south side of Dublin Gulch, and two at the head of Bawn Boy Gulch. These did not reach bedrock due to permafrost and were not sampled.

Bedrock consists of decomposed, rubbly granodiorite

cut by numerous quartz veins. Some of these contain visible scheelite while others contain arsenopyrite and scorodite. Bedrock is coloured light to medium brown by iron stain. The weathered rubbly zone extends to an unknown depth. It is covered by at least three feet of sand which has formed from the weathering of the bedrock, and one foot of black organic soil. The sandy layer displays vague horizontal banding which indicates that it is slowly creeping downhill, even on slopes as gentle as 5°.

The trenches were examined at night with the aid of an ultraviolet lamp. The scheelite occurs both in individual veins and in local patches up to one foot in length. There was no noticeable horizontal banding or enrichment in the sandy layer.

The trenches were sampled by filling large plastic bags with random grabs from the entire length of the trench. Each sample weighed about 20 pounds. All samples were taken from the bottom of the walls of the trenches and each trench was sampled twice- one sample by Provencher and one by Cathro. In addition, trenches 1, 2, 3, and 11 were sampled twice by each man, a total of 4 samples from each, because of their greater length, and trenches 4 and 6, which are particularly long, were divided into upper and lower halves and four samples were taken from each half. The total number of samples taken was 56. The assaying was conducted at three

laboratories as a further check on accuracy. Twenty samples were assayed by Coast Eldridge, Vancouver, 28 by Whitehorse Assay Office, and 8 by Technical Service Labs, Toronto. If trace and nil is assumed to be 0.01% W_3 , the average of all 56 assays is 0.042% W_3 . Only six assays exceeded 0.10%, as follows:

<u>% W_3</u>	<u>Trench No.</u>	<u>Sampler</u>
0.36	15	Provencher
0.28	10	Cathro
0.21	2	Cathro
0.20	4	Provencher
0.18	2	Provencher
0.11	8	Cathro

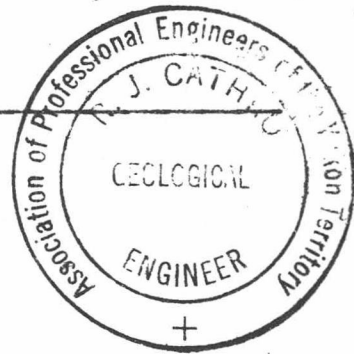
Of the four samples from trench 2, two assayed 0.21% and 0.18%, while the other two assayed trace, an average of 0.10%. In trench 4, one sample assayed 0.20% while two assayed 0.08% and 0.06% and five assayed trace. The average for trench ⁴ is 0.04%. In trench 8, the two samples assayed 0.11% and trace, an average of 0.06%. Similarly, the second samples from trenches 10 and 15 each assayed trace, giving averages of 0.15% and 0.19%.

Thus, the significant samples show a random distribution with no consistency within a trench or by one sampler. The sampling is considered to be representative

of the particular depth reached by the trenches. The average for this area is about 1 pound WO_3 /ton with a gross value at present metal prices of about \$2.00/ton. While this is a significant, measurable amount considering the size of the Potato Stock, it is too low to be of economic interest in the foreseeable future.

Respectfully submitted,
ARCHER, CATHRO & ASSOC. LTD.

R.J.C.
R.J. Cathro



RJC/pc

TO:

Archer Cathro & Associates (2)



PHONE: (604) 876-4111
 TELEX: 04-50353
 CABLE ADDRESS:
 ELDRICO

Certificate of Assay
COAST ELDRIDGE
 PROFESSIONAL SERVICES DIVISION
 WARNOCK HERSEY INTERNATIONAL LIMITED
 125 EAST 4TH AVE. VANCOUVER 10, B.C., CANADA

FILE NO. A.3-A.4-68-2818

DATE November 6, 1968

We Hereby Certify that the following are the results of assays made by us upon submitted DRILL CORE samples

MARKED	GOLD		SILVER	Tungsten (WO ₃)	Copper (Cu)				
	OUNCES PER TON	VALUE PER TON	OUNCES PER TON	PER CENT.	PER CENT.	PER CENT.	PER CENT.	PER CENT.	PER CENT.
8685		\$		0.01					
8686				0.01					
8687				0.02					
8688				0.09					
8689				0.01					
Composite	0.01	0.35	0.06		0.02				

Gold calculated at \$ per ounce

Note. Rejects retained one week.
 Pulps retained one month.
 Pulps and rejects may be stored for a maximum
 of one year by special arrangement.

Unless it is specifically stated otherwise, gold
 and silver values reported on these sheets have
 not been adjusted to compensate for losses and
 gains inherent in the fire assay process.

H. Hayes

Provincial Assayer



PHONE: (604) 876-4111
 TELEX: 04-50353
 CABLE ADDRESS:
 ELDRICO

TO: Archer Cathro & Associates
 P.O. Box 1708
 Whitehorse, Y.T.

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 WARNOCK HERSEY INTERNATIONAL LIMITED
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	OUNCES PER TON	VALUE PER TON	OUNCES PER TON	PER CENT.	PER CENT.	PER CENT.	PER CENT.	PER CENT.	PER CENT.
		\$							
8670				0.04					
8671				0.21					
8672				0.07					
8673				0.06					
8674				0.08					
8675				0.06					
8676				0.02					
8677				0.01					
8678				0.01					
8679				0.11					
8680				0.01					
8681				0.28					
8682				0.01					
8683				0.07					
8684				0.05					

Gold calculated at \$ per ounce

/j/p

Note. Rejects retained one week.
 Pulps retained one month.
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H. Shays

Provincial Assayer



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 TELEX: 04-50353
 CABLE ADDRESS:
 ELDRICO

TO:
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 P.O. Box 1708.....
 Whitehorse, Y.T.

Certificate of Assay
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 PROFESSIONAL SERVICES DIVISION
 WARNOCK HERSEY INTERNATIONAL LIMITED
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FILE NO. A.3-A.4-68-2818

DATE November 7, 1968

We Hereby Certify that the following are the results of assays made by us upon submitted **COMPOSITE** samples

MARKED	GOLD		SILVER	Total Molybdenum	PER CENT.	PER CENT.	PER CENT.	PER CENT.	PER CENT.
	OUNCES PER TON	VALUE PER TON	OUNCES PER TON	PER (Mo) CENT.					
8670 - 8689		\$		0.015					

/jp

Gold calculated at \$ per ounce

Note. Rejects retained one week.
 Pulps retained one month.
 Pulps and rejects may be stored for a maximum of one year by special arrangement.

Unless it is specifically stated otherwise, gold and silver values reported on these sheets have not been adjusted to compensate for losses and gains inhere in the fire assay process.

H. Hayles

Provincial Assayer

DATE Oct 30, 1968

ASSAY CERTIFICATE

FILE NO. 5132-29

WHITEHORSE ASSAY OFFICE

P.O. BOX 346. WHITEHORSE. YUKON

RECEIVED FROM

ARCHER & CATRO

SAMPLE NO.	GOLD OZ. PER TON	SILVER OZ PER TON	Tungsten	Copper	Molly			
8013 - 8017			TR					
8018			.03					
8019- 8028			TR					
8029			.36					
8030			.04					
8031 - 8032			TR					
8690 - 8697			TR					
Composite	TR	TR		TR	TR			

ASSAYER

Geo. Sp. ...



• CHEMICAL RESEARCH AND ANALYSIS

• INSTRUMENT SALES AND SERVICE

TECHNICAL SERVICE LABORATORIES

DIVISION OF BURGEMER TECHNICAL ENTERPRISES LIMITED

355 KING ST. W., TORONTO 2B, ONT., CANADA

TELEPHONE : 962-4248

Representing . . .

JARRELL-ASH COMPANY
HILGER & WATTS LIMITED
SADTLER RESEARCH
ULTRA CARBON CORPORATION
METALS RESEARCH LIMITED

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Archer Cathro and Associates Ltd.,

REPORT NO.

T-13259

SAMPLE(S) OF CRUSHED ROCK

<u>Sample No.</u>	<u>Tungsten Oxide (WO₃) %</u>
8033	nil
8034	0.18
8035	trace
8036	0.20
8037	trace
8038	trace
8039	nil
8040	trace

Samples, Pulps and Rejects discarded after ^{two}~~30~~ months

ATE _____ Nov. 5/68

SIGNED _____

C.S. JOYCE, B.Sc., Manager of Laboratories





• CHEMICAL RESEARCH AND ANALYSIS
• INSTRUMENT SALES AND SERVICE

TECHNICAL SERVICE LABORATORIES
DIVISION OF BURGEMER TECHNICAL ENTERPRISES LIMITED
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SADTLER RESEARCH
ULTRA CARBON CORPORATION
METALS RESEARCH LIMITED

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Archer Cathro and Associates Ltd.,
Bentall Centre,
Vancouver, B.C.

REPORT NO.
T-13259

SAMPLE(S) OF CRUSHED ROCK

<u>Sample No.</u>	<u>Gold (Au) oz:ton</u>	<u>Silver (Ag) oz:ton</u>	<u>Copper (Cu) %</u>	<u>Molybdenum (Mo) %</u>
Composite 1033 - 8040	trace	trace	< 0.01	< 0.01

(< less than)

Samples, Pulps and Rejects discarded after ^{two} ~~six~~ months

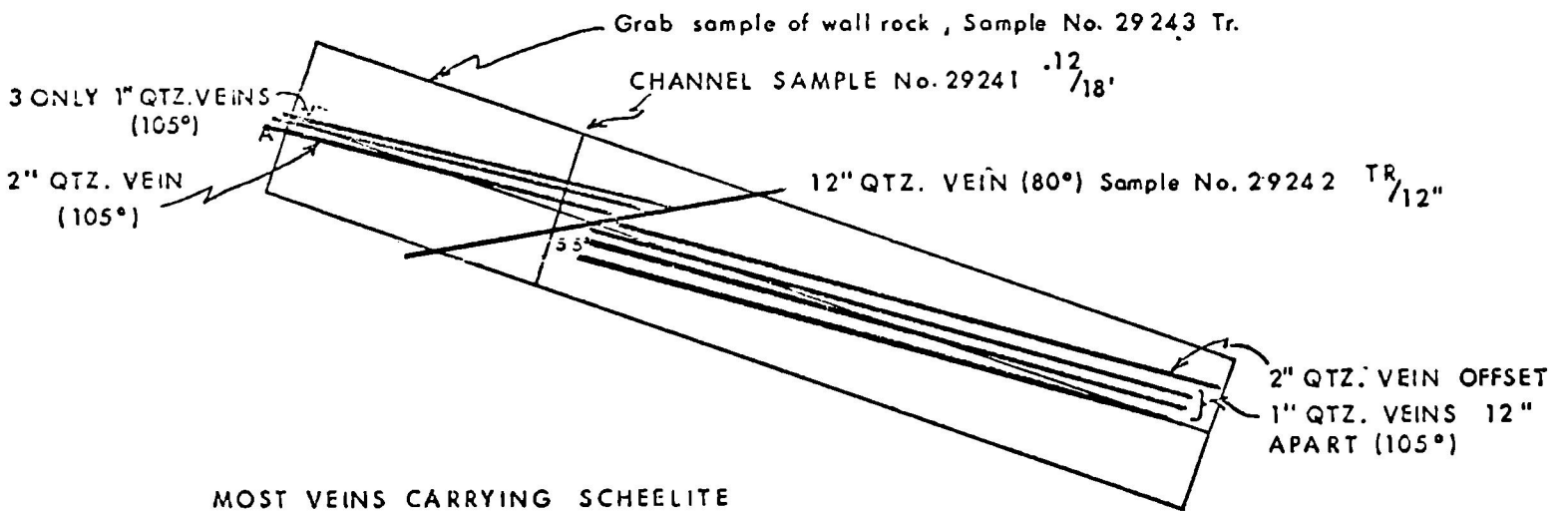
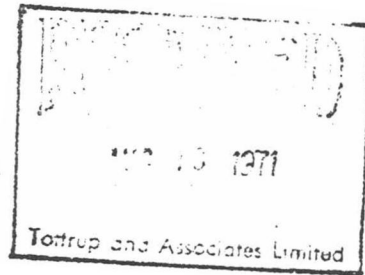
DATE Nov. 5/68

SIGNED *C.S. Joyce*
C.S. JOYCE, B.Sc., Manager of Laboratories



POTATO HILLS, YUKON.

109°
LENGTH 98'
DEPTH 15'
LINE 76 Δ 30 31
Scale 1' = 20'

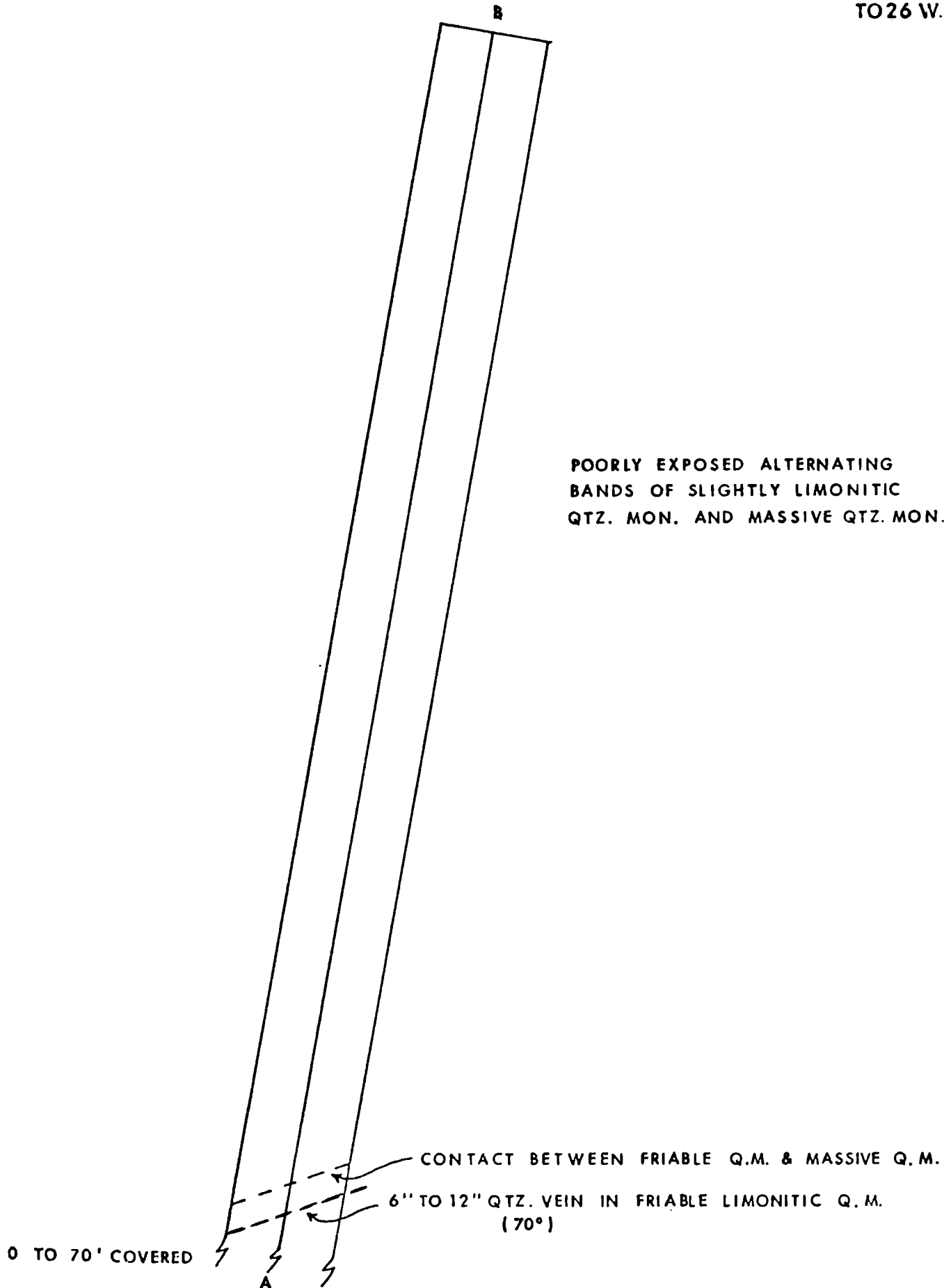


MOST VEINS CARRYING SCHEELITE
ARE PARALLEL OR NEAR PARALLEL
TO LONG AXIS OF TRENCH

MAJOR ROCK TYPE ALTERED
QTZ. MONZONITE.

TRENCH No. 2a. 2
PULIATO HILLS, YUKON.

231°
BEARING 10°
LENGTH 252'
DEPTH 3'
LINE 76W Δ 24 W.
TO 26 W.

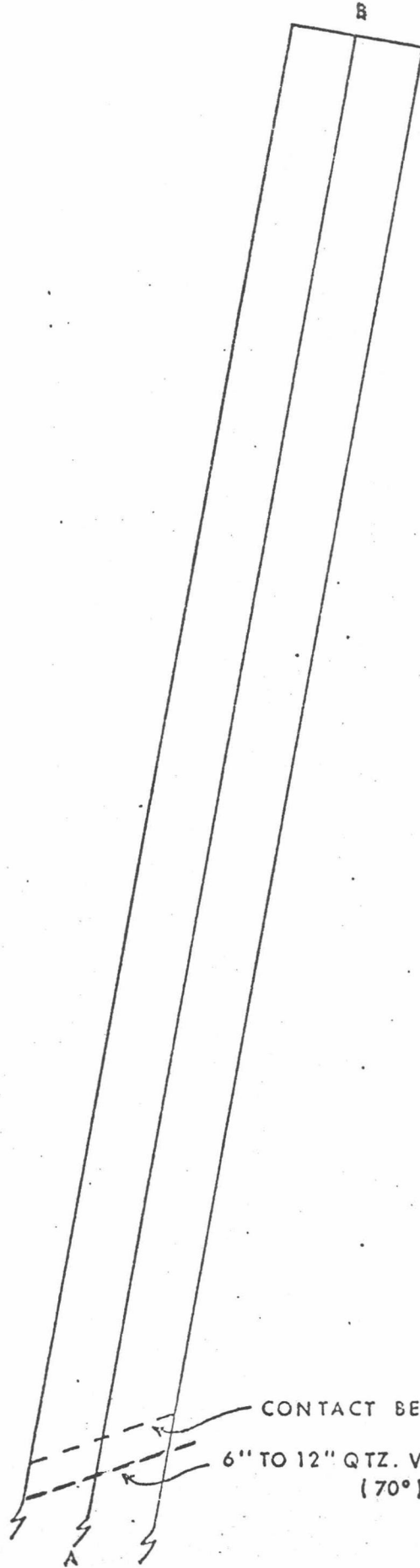


3

ATC HILLS, TENN.

224°

LENGTH 252
DEPTH 3'
LINE 76W Δ 24 W.
TO 26 W.



POORLY EXPOSED ALTERNATING
BANDS OF SLIGHTLY LIMONITIC
QTZ. MON. AND MASSIVE QTZ. MON.

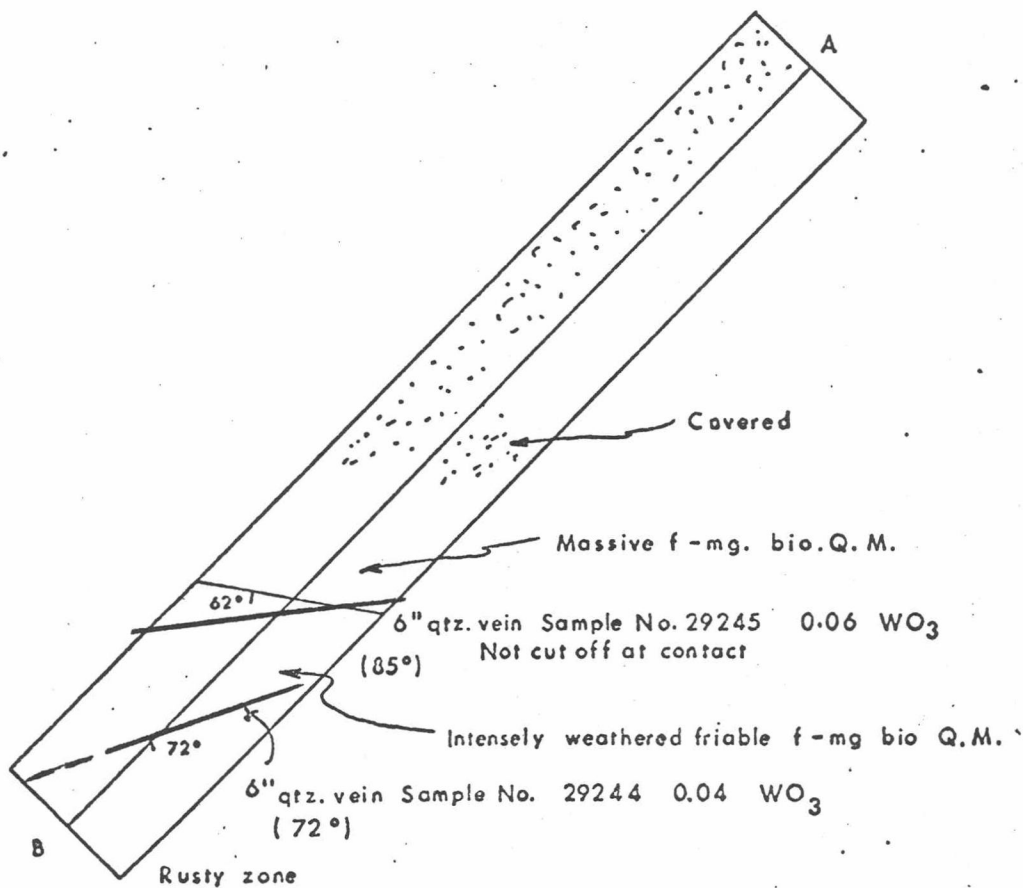
CONTACT BETWEEN FRIABLE Q.M. & MASSIVE Q.M.

6" TO 12" QTZ. VEIN IN FRIABLE LIMONITIC Q.M.
(70°)

0 TO 70' COVERED

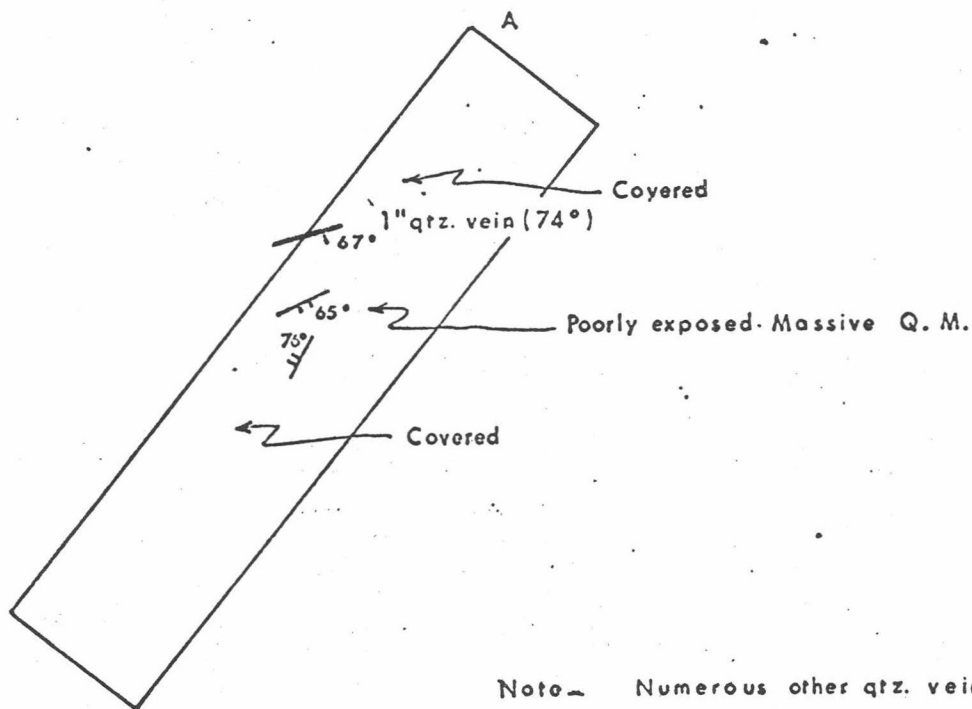
4
POTATO MILLS, YUKON.

225°
LENGTH 100'
DEPTH 10'
LINE 76S Δ 22



5
P JATO HILLS, YUKON

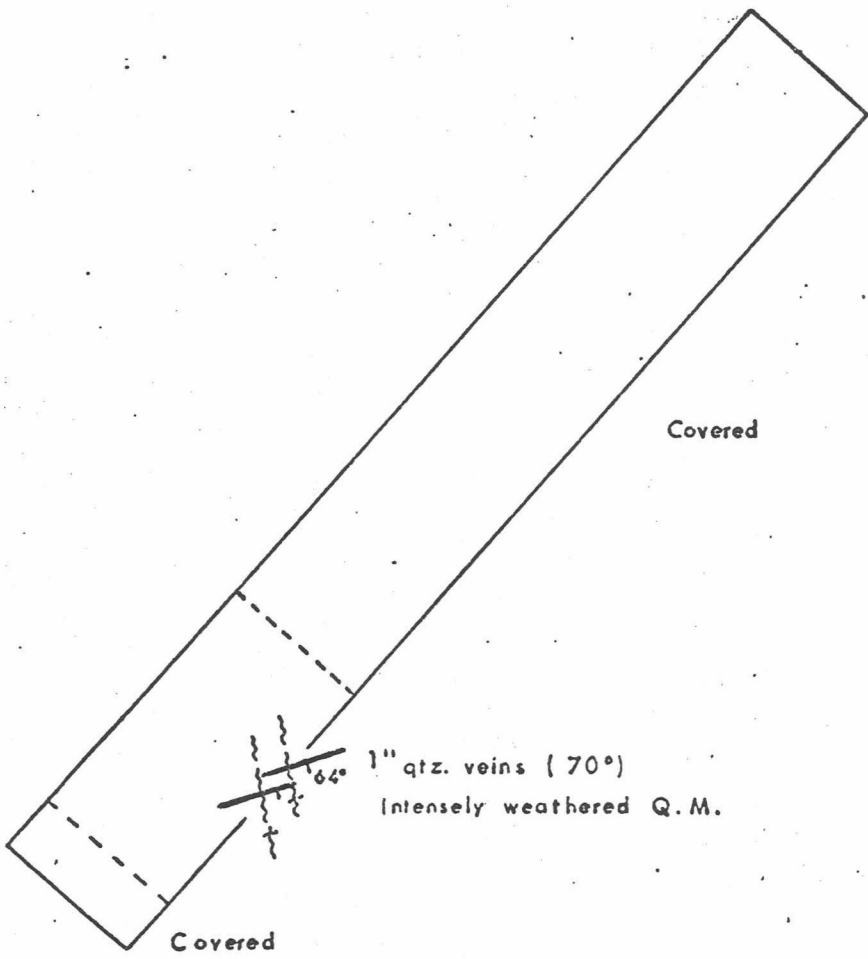
218°
LENGTH 76'
DEPTH 6'
LINE 72S Δ 12W.



Note - Numerous other qtz. veins
but due to poor exposure
could not be mapped.
A few friable sections, but
do not have any continuity.
No sample taken.

222°
113°

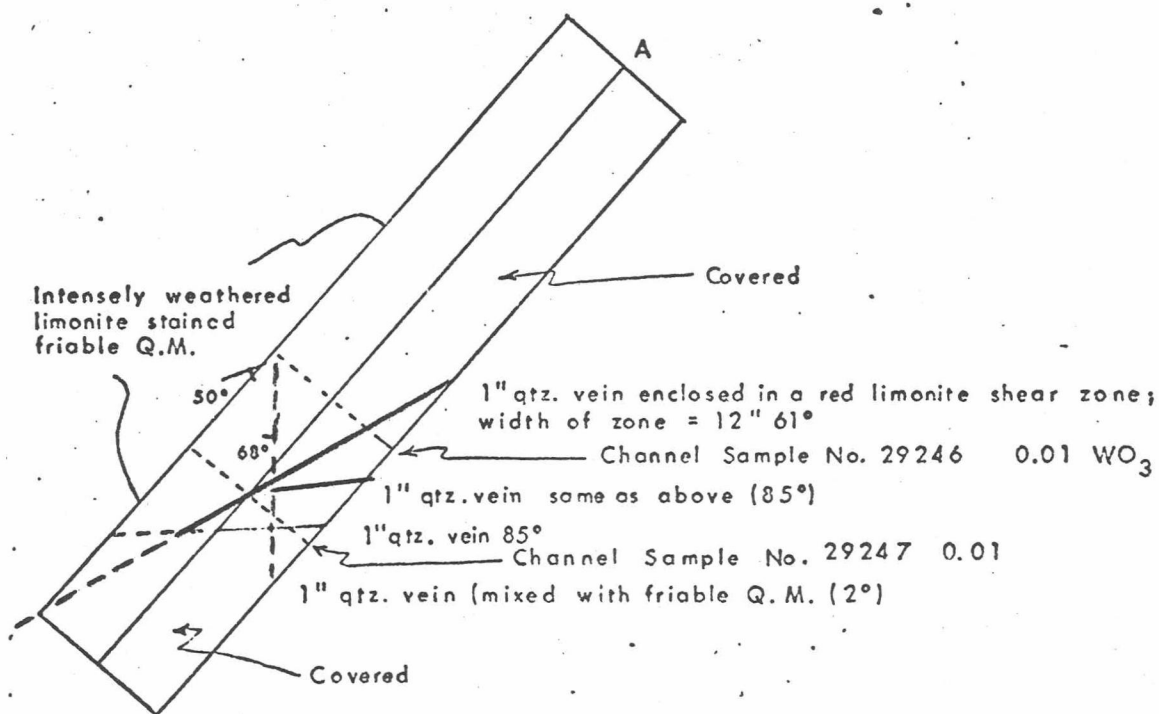
DEPTH 6'
LINE 72S & 11W



TRENCH No. 7

POT. O HILLS, YUKON.

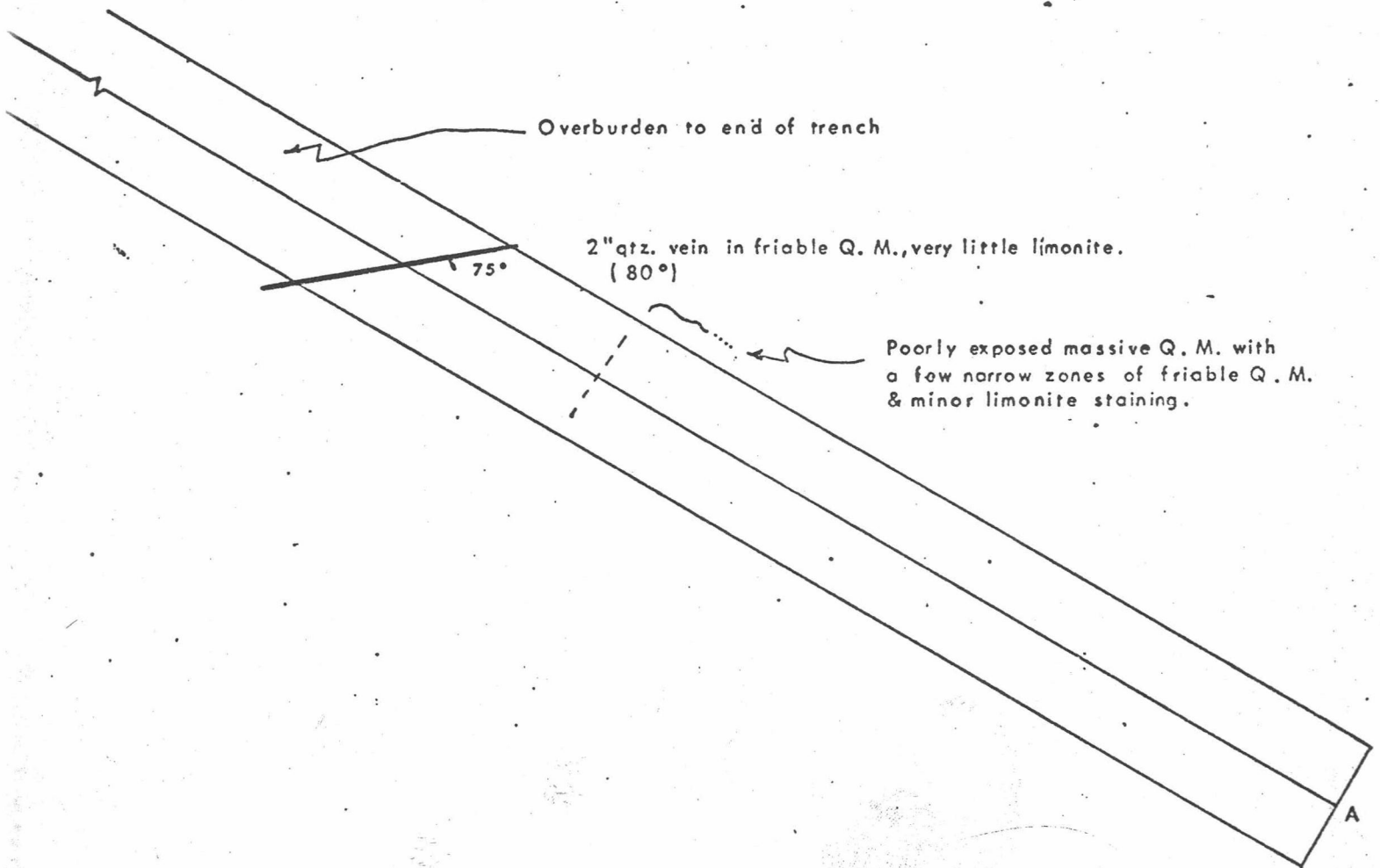
BEARING 221°
LENGTH 81°
DEPTH
LINE 72 S Δ 10 W.



TRENCH No. 8
POTATO HILLS, YUKON.

BEARING 300°
LENGTH 200'
DEPTH 7'
LINE 72S Δ 10-12 W

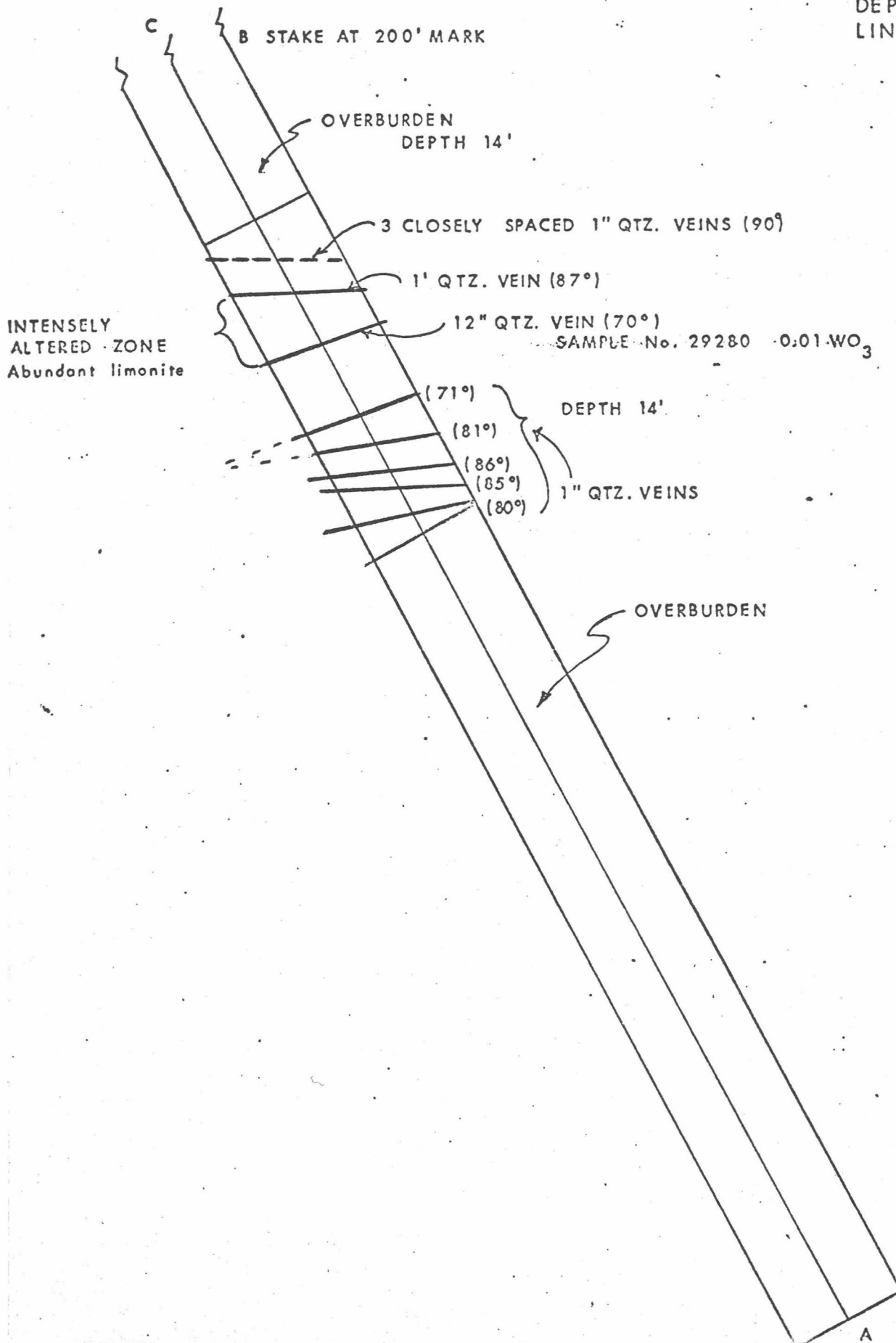
Massive Q.M. ledges made
trenching very difficult.



TRENCH No. 9.

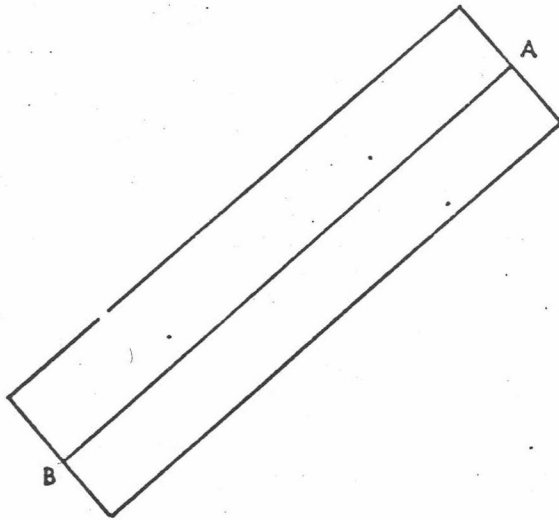
POTATO HILLS, YUKON.

BEARING 332°
LENGTH 342'
DEPTH 14'
LINE 72S Δ 8-11W.



10
PO .TO HILLS, YUKON.

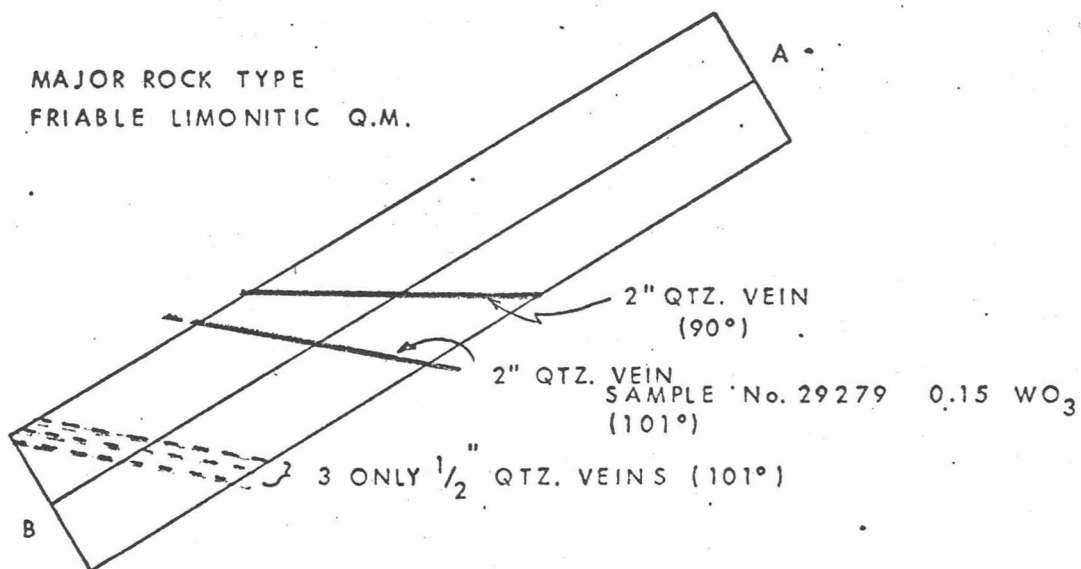
LENGTH 61'
DEPTH 6'
LINE 72S Δ 20W.



No bedrock exposed

TRENCH No. 11
POTATO HILLS, YUKON.

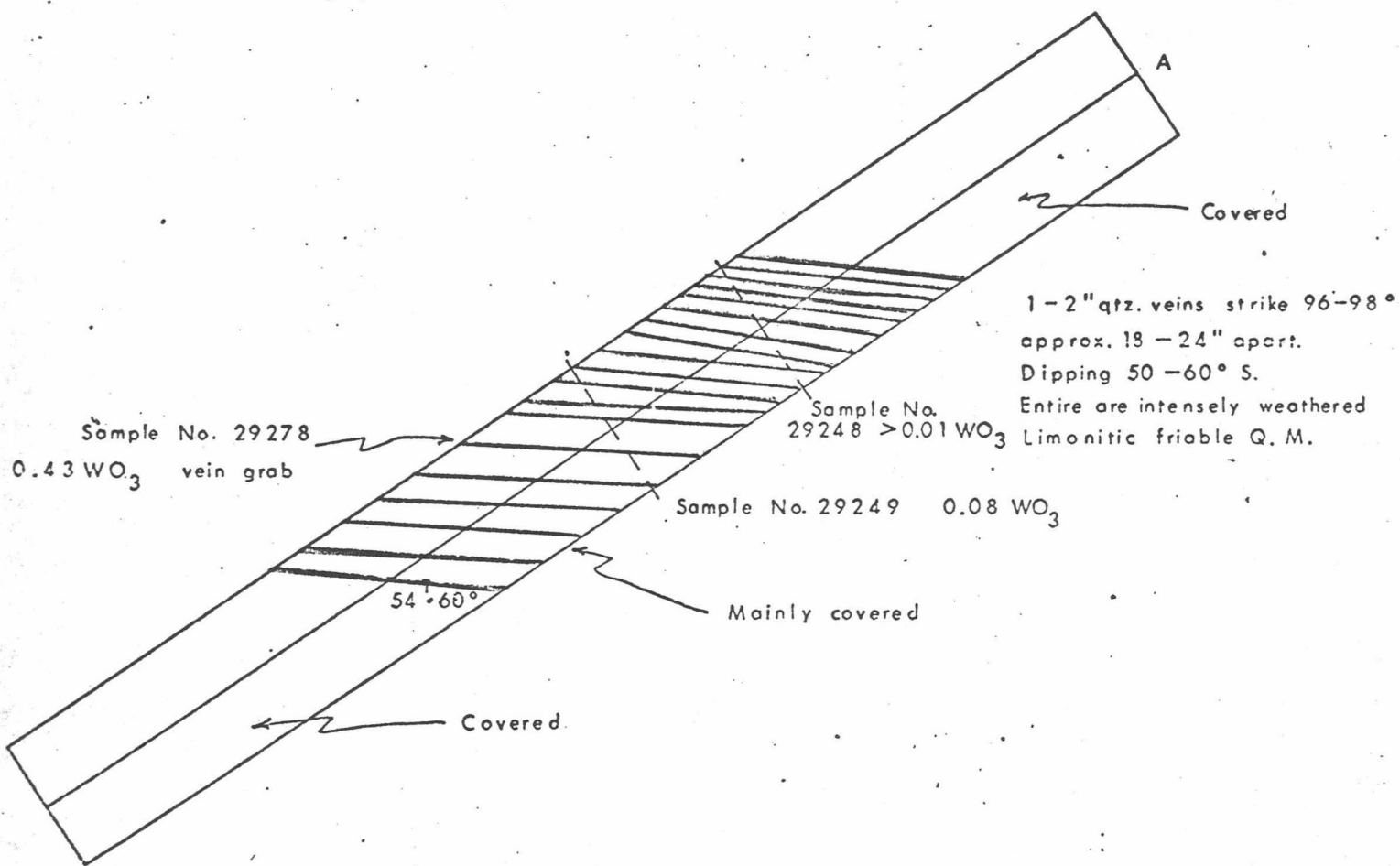
BEARING 238°
LENGTH 83'
DEPTH 4'
LINE 725 Δ 21W



TP NCH No. 12

POTATO HILLS, YUKON.

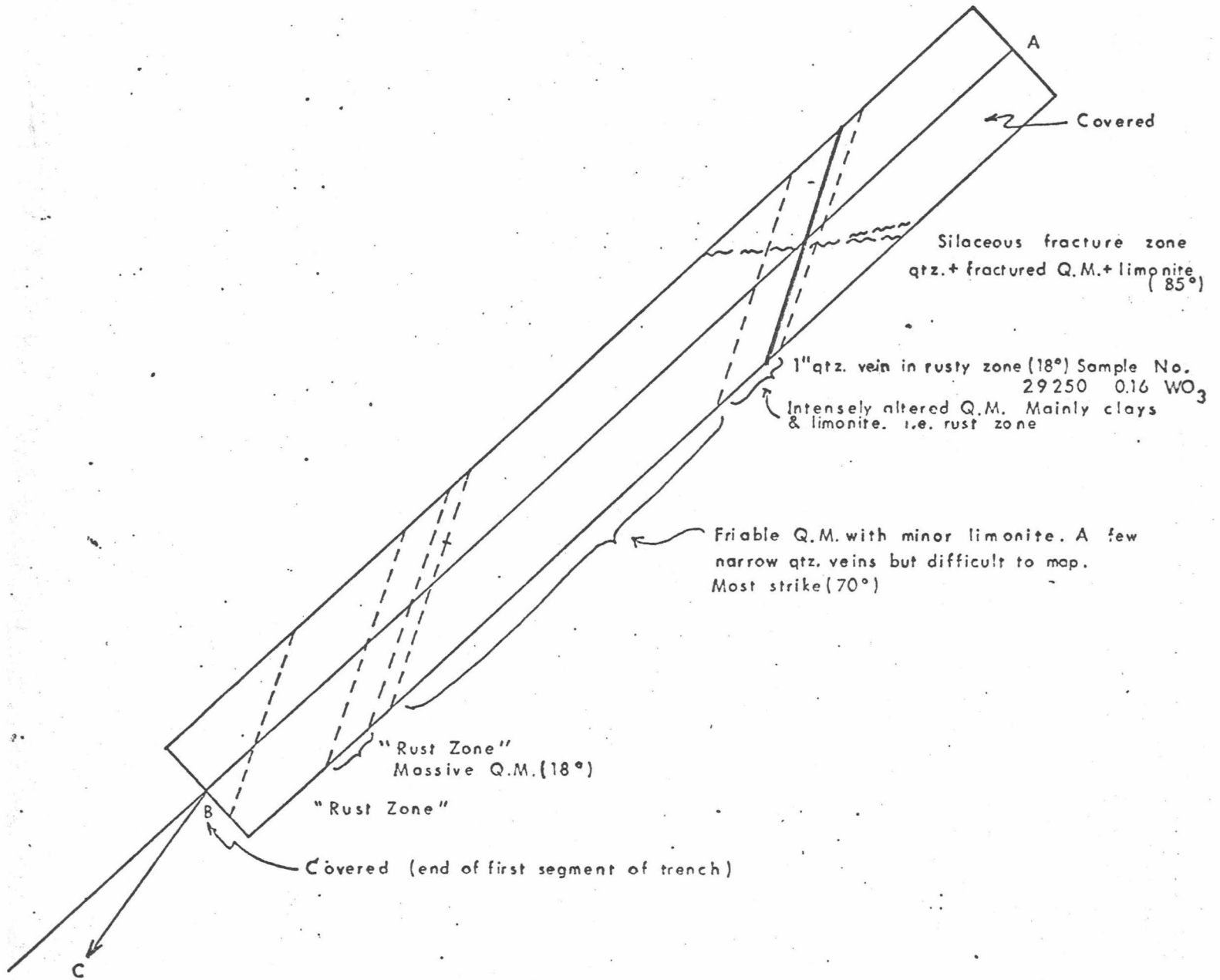
BEARING 236°
LENGTH 148'
DEPTH 12'
LINE 84S Δ 8W.



TRENCH No. 13

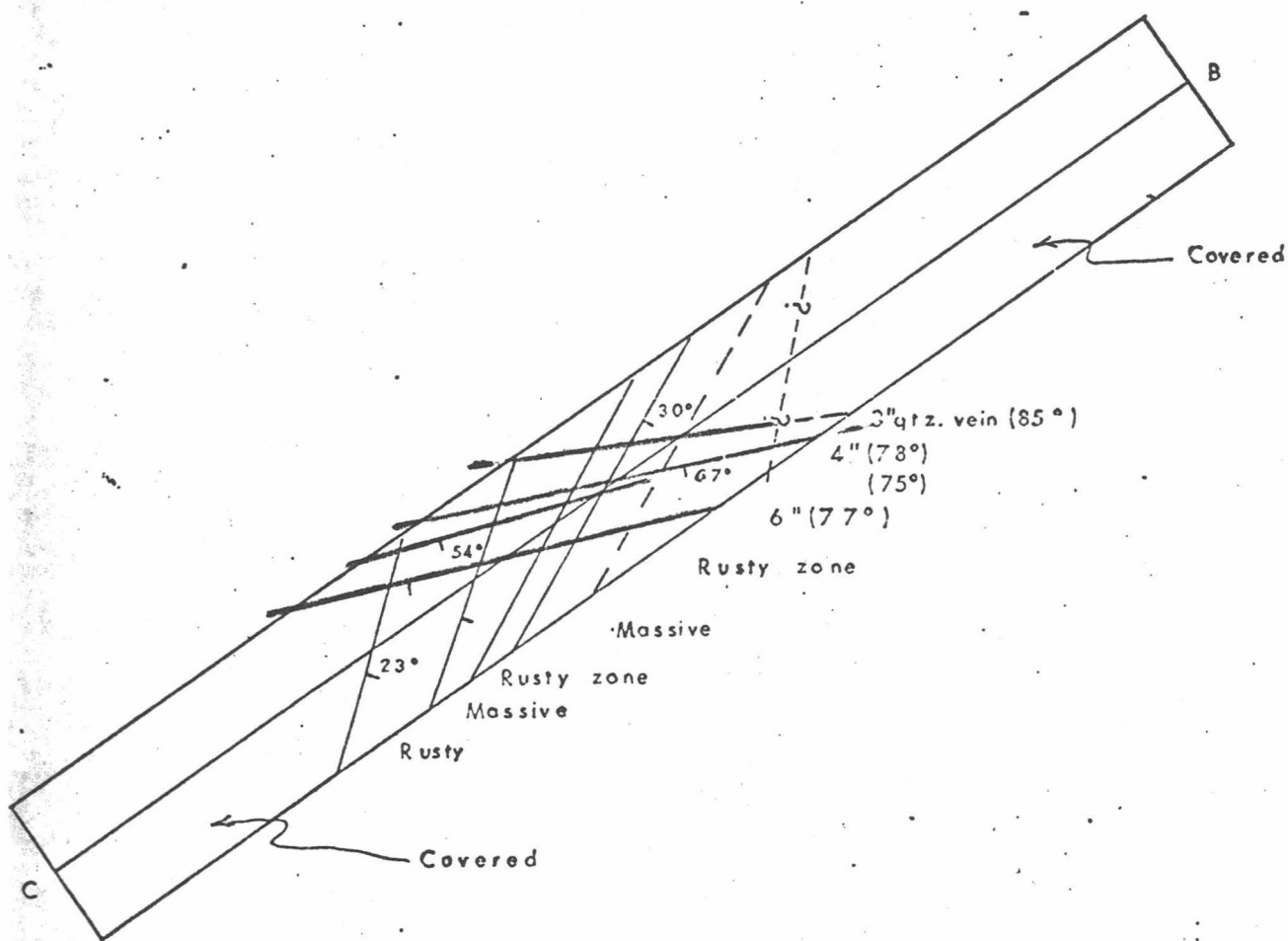
POTATO HILLS, YUKON.

BEARING 227°
LENGTH 144' (A-B)
DEPTH 9'
LINE 84 S. Δ 7 W.



TRENCH No. 13 (B-C)
POIATO HILLS, YUKON.

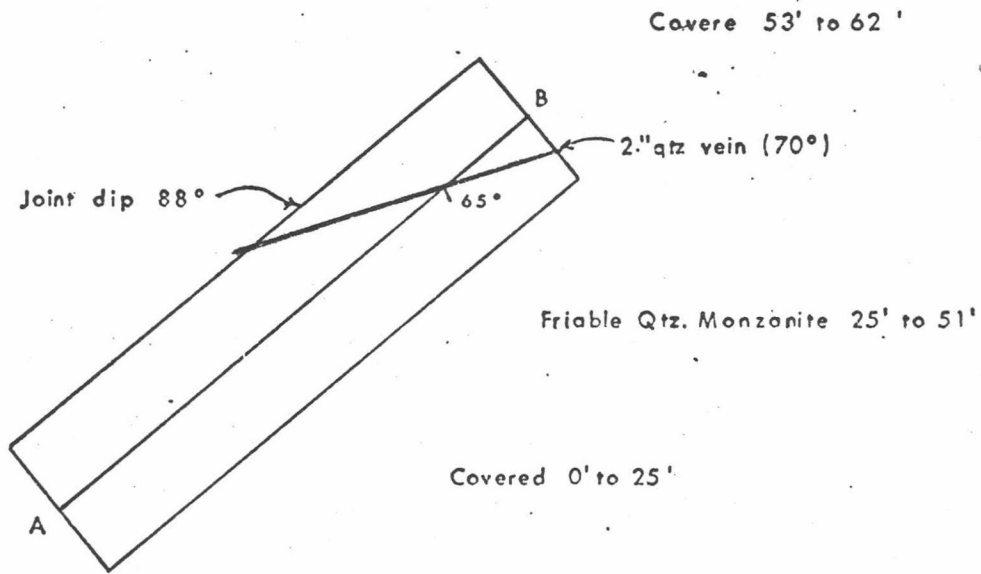
BEARING 235°
LENGTH 144'
DEPTH 12"
LINE



TRENCH No. 14

POTATO HILLS, YUKON.

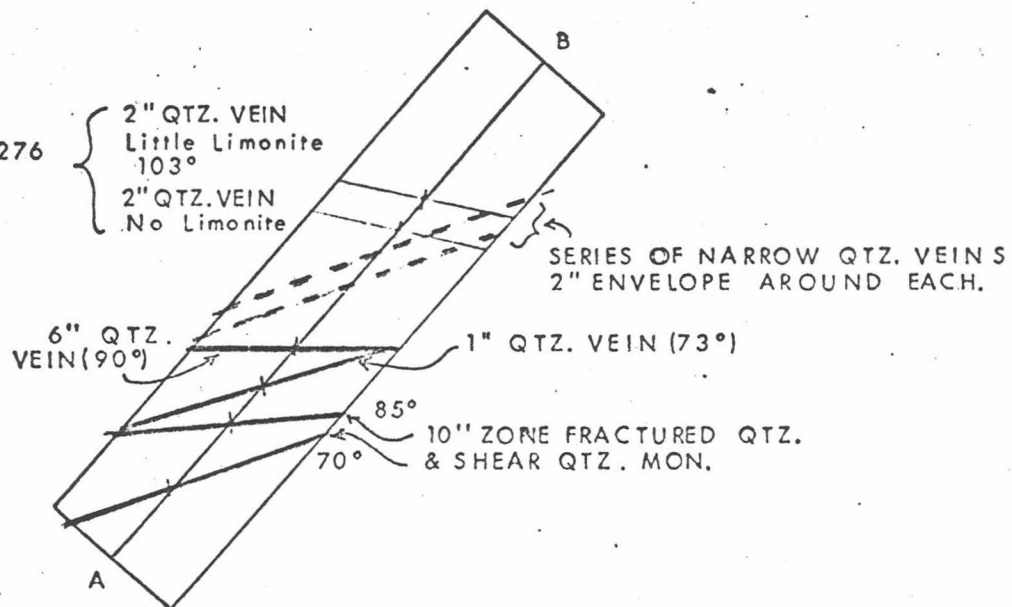
BEARING 230°
LENGTH 62'
DEPTH 9'
LINE 84 Δ 23 W.



TRENCH No. 15
POTATO HILLS, YUKON.

BEARING 221°
LENGTH 67'
DEPTH 8'
LINE 845 A 22W.

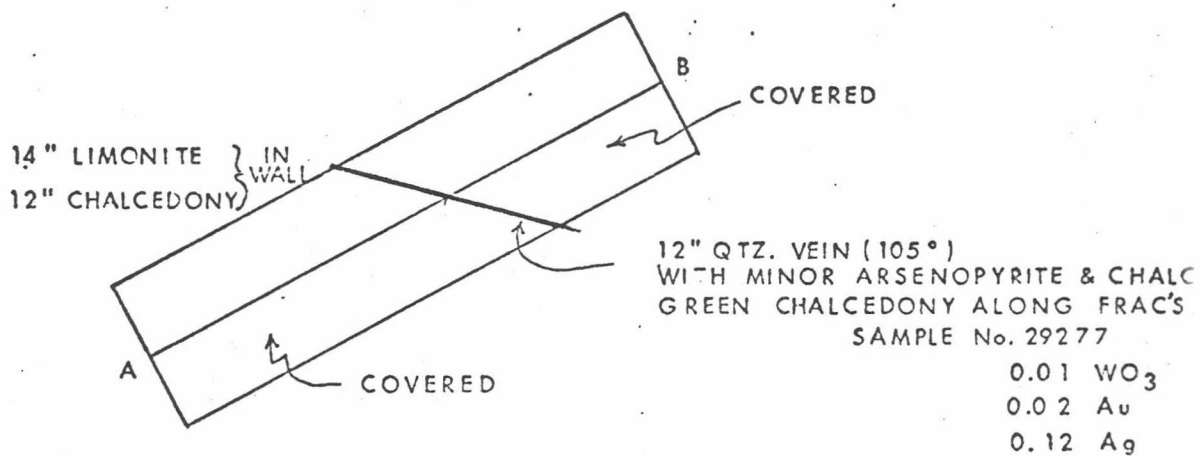
SAMPLE No. 29276
0.60 WO₃



MAJOR ROCK TYPE
FRIABLE QTZ. MONZANITE

TRENCH No. 16
POIATO HILLS, YUKON.

BEARING 241°
LENGTH 59'
DEPTH 4'
LINE 845 Δ 21 W.

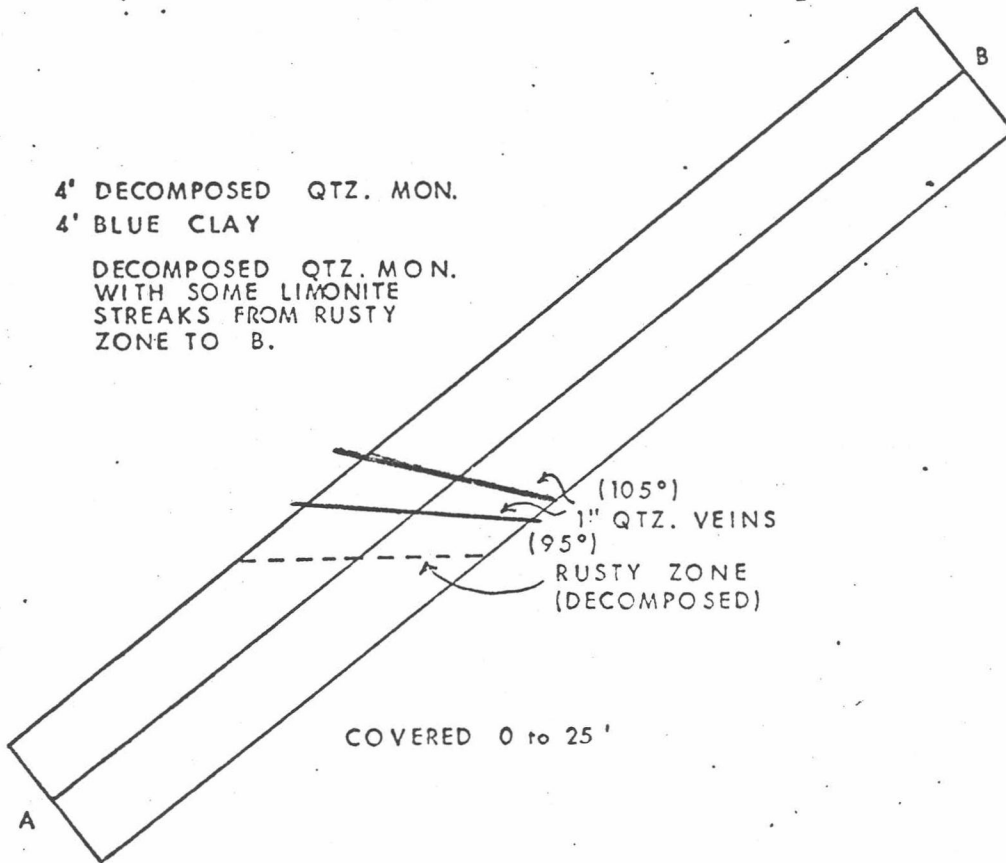


TRENCH No. 17

PC 4 TO HILLS, YUKON.

BEARING 231°
LENGTH 118'
DEPTH 12'
LINE 80S Δ 12W.

TOP 4' DECOMPOSED QTZ. MON.
MIDDLE 4' BLUE CLAY
BASE DECOMPOSED QTZ. MON.
WITH SOME LIMONITE
STREAKS FROM RUSTY
ZONE TO B.

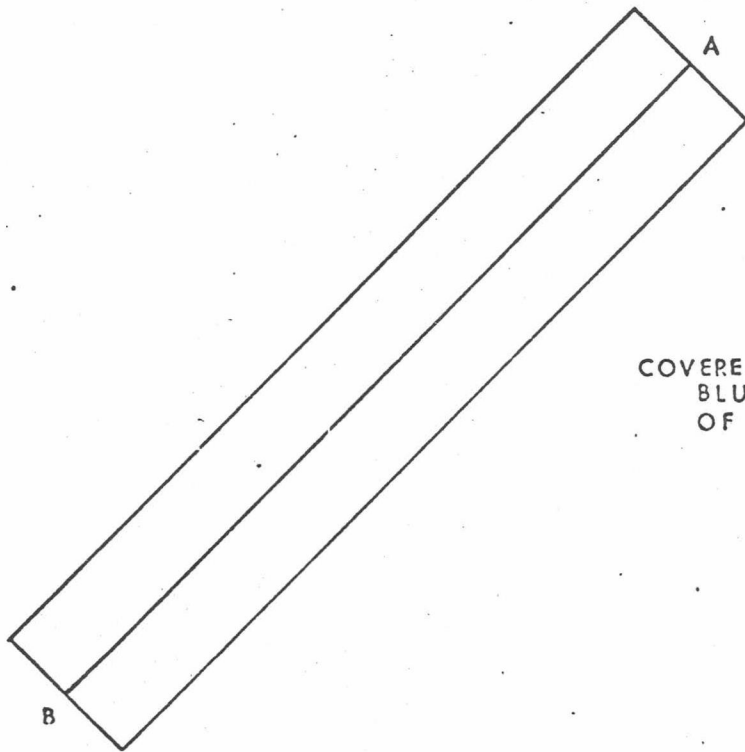


COVERED 0 to 25'

TRENCH No. 18

POTATO HILLS, YUKON.

BEARING 225°
LENGTH 90'
DEPTH 14'
LINE 80S Δ 11W.



COVERED
BLUE CLAY AT BOTTOM
OF TRENCH