NON-PRIVILEGED DOCUMENT

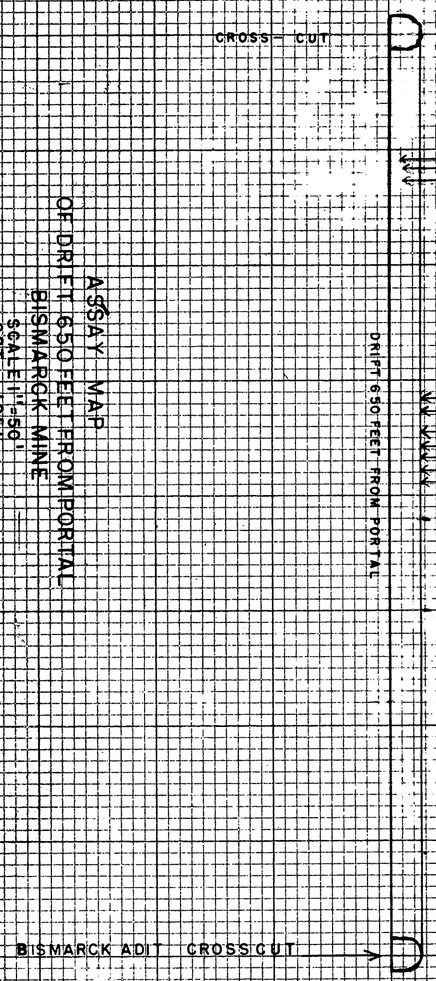
TO BE PHOTOCOPIED AND PRODUCED

DO NOT CODE

BATES NO. USGSP00000382

ASSAY MAP
OF DRIFT 650 FEET FROM PORTAL
BISMARCK MINE

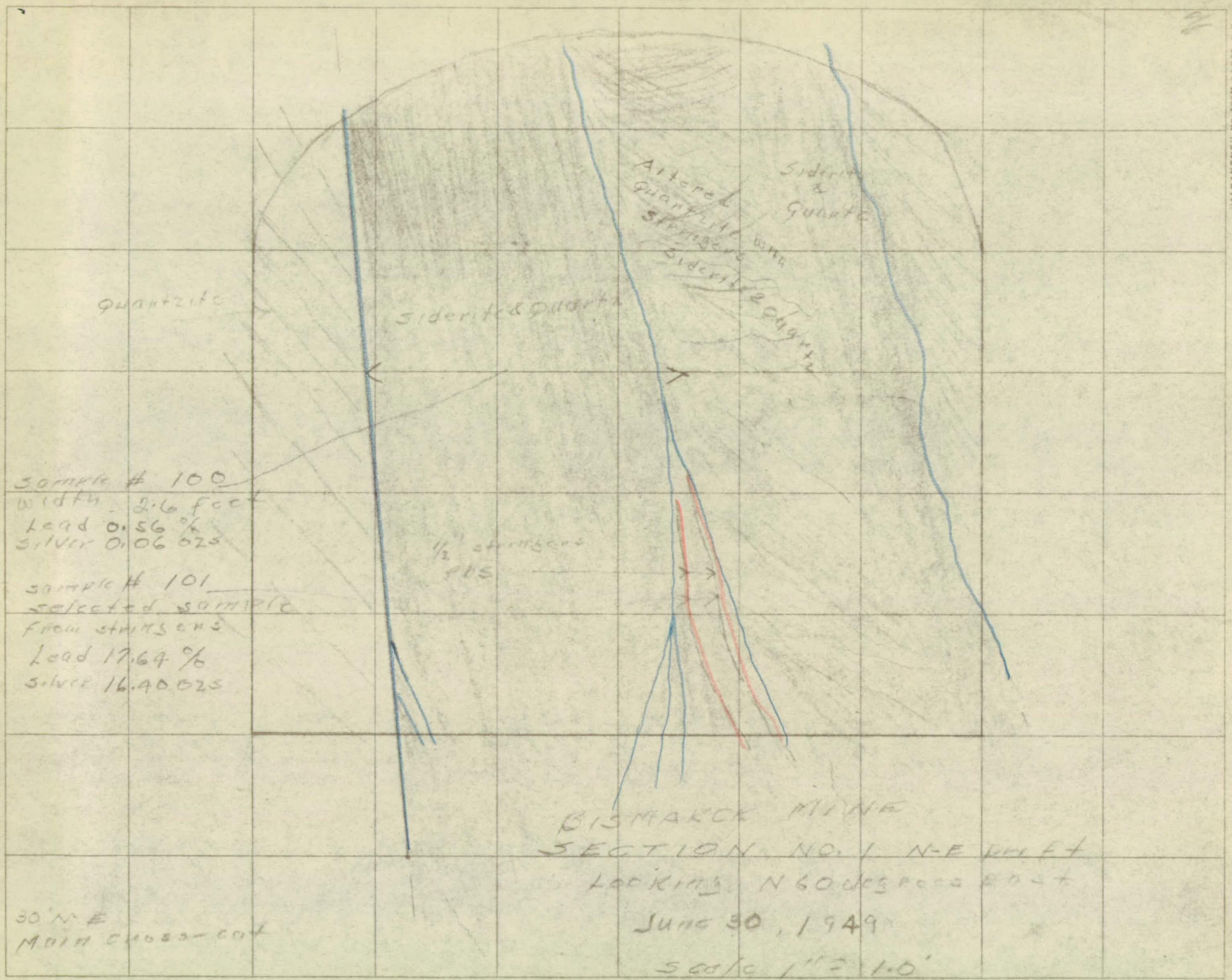
SCALE 1" = 50'
OCT. 1951

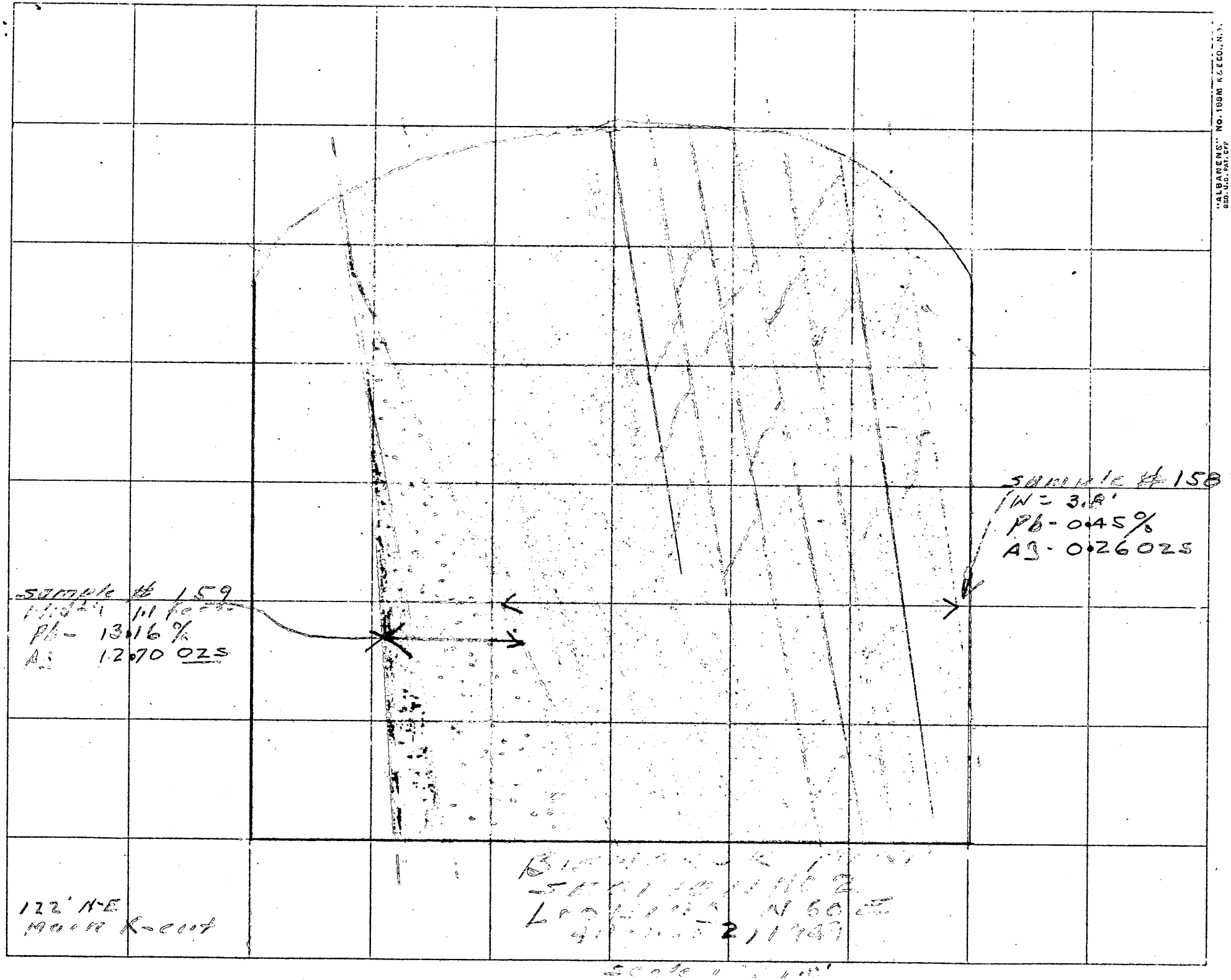


SAMPLE NO.	% LEAD	OZS. SILVER	% ZINC	% COPPER	WIDTH FEET
1142	0.08	0.8	0.0	5.7	0.3'
1141	0.0	0.02	0.0	0.7	0.2'
1140	0.22	0.0	0.0	3.9	0.3'
1113	0.0	0.22	0.0	Tr	0.7'
1114	0.0	0.0	0.1	0.02	0.8'
1115	12.0	47.5	0.1	0.40	0.5'
1116	32.5	13.1	0.0	0.20	0.4'
1117	0.0	0.0	0.2	0.02	1.3'
1118	0.0	0.0	0.3	0.05	1.0'
1119	0.0	0.0	0.0	Tr	1.1'

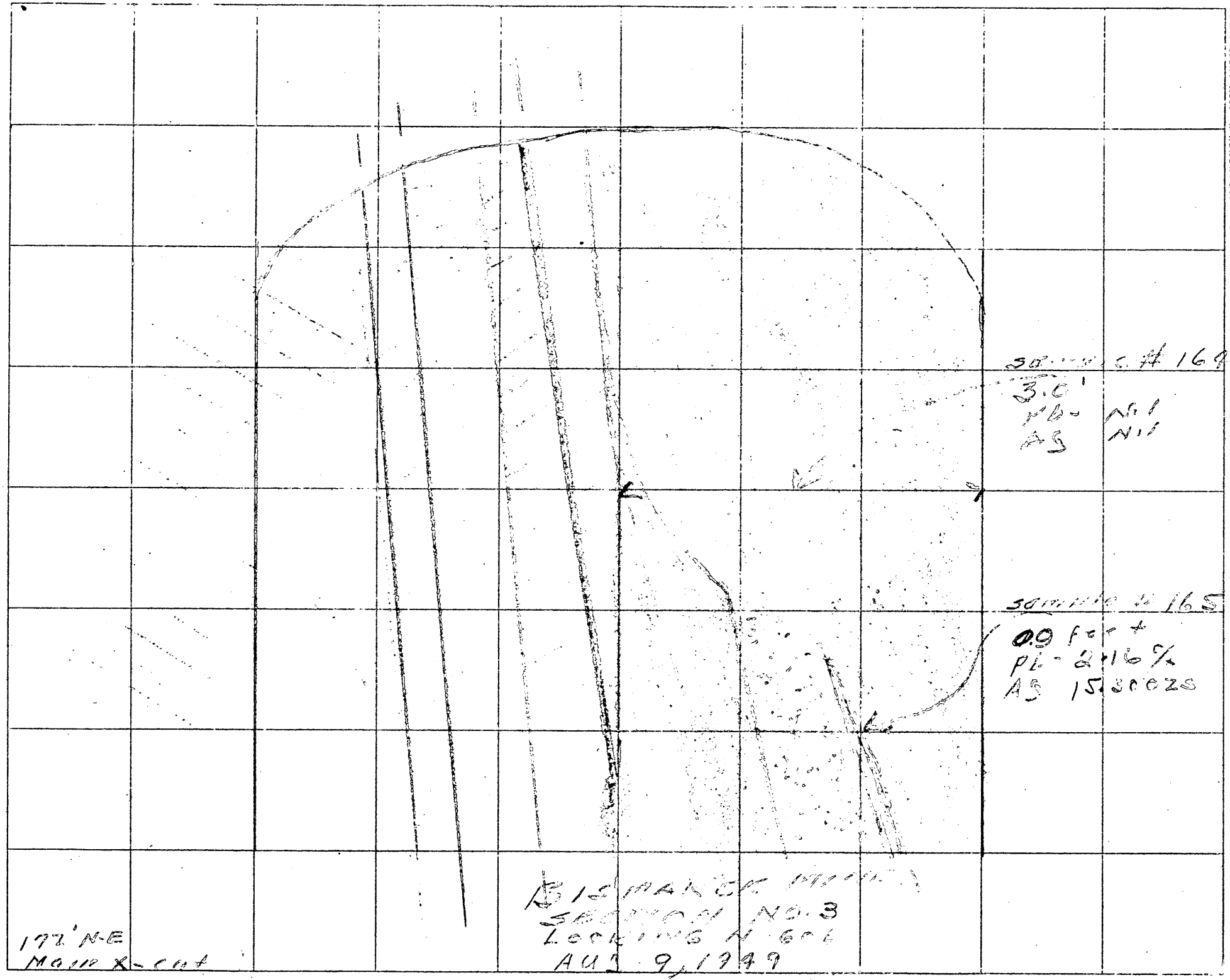
SAMPLES NO. 1115 & 1116 WERE RESAMPLED AND DID NOT CHECK FIRST SAMPLING

LES BRUNING COMPANY
CROSS SECTION 10 x 10
PRINTED IN U.S.A.

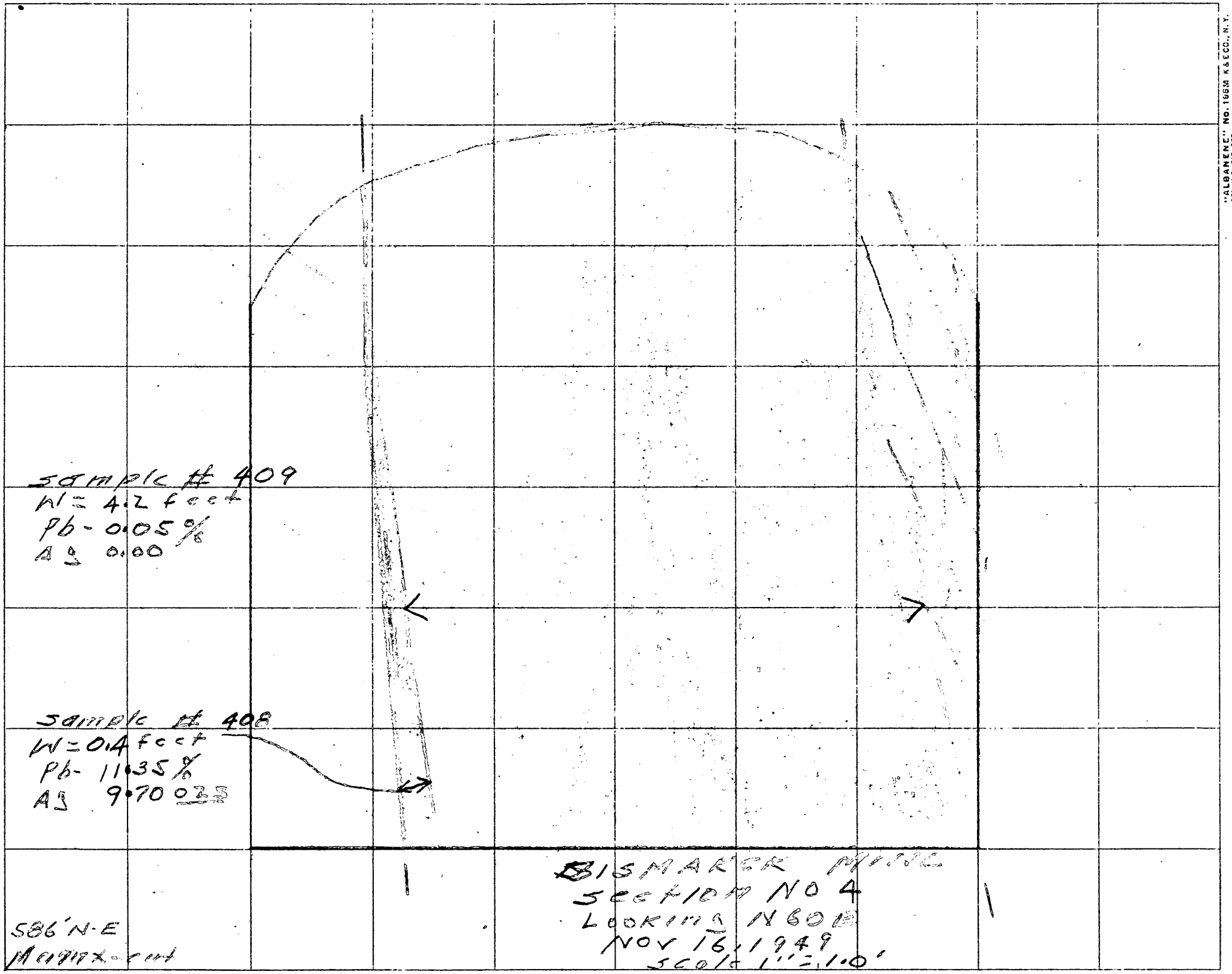

Altered Quartzite with stringers siderite & pyrite
Siderite & Quartz
quartzite
siderite & quartz
sample # 100
width 2.6 feet
Lead 0.56 %
Silver 0.06 ozs
1/2 stringers
ZNS
sample # 101
selected sample
from stringers
Lead 17.64 %
Silver 16.40 ozs
BISMARCK MINE
SECTION NO. 1 N-E WEST
LOOKING N 60 DEGREES EAST
JUNE 30, 1949
Scale 1" = 1.0'
30' N-E
Main cross-cut



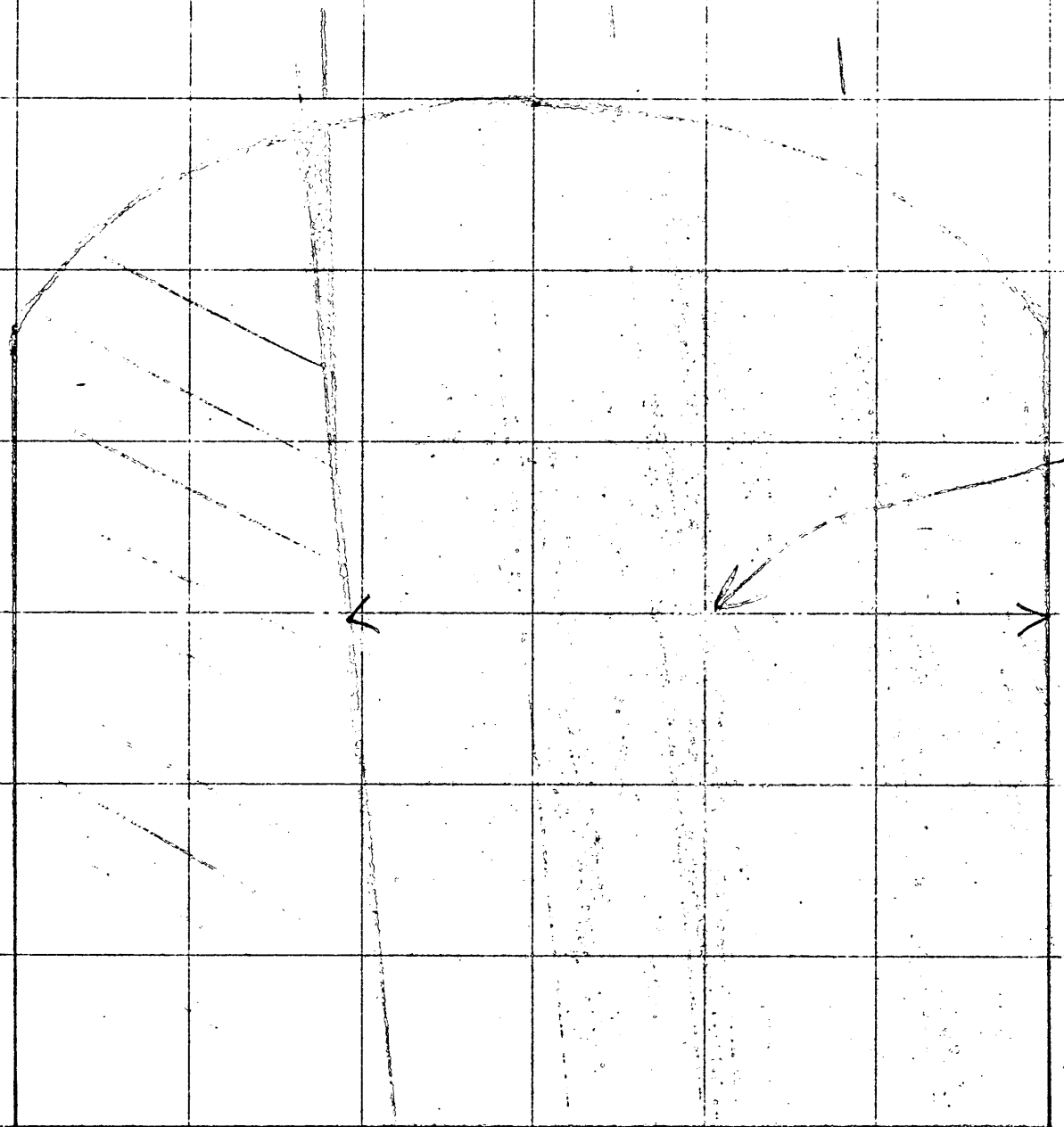
"ALBANENE" No. 166M K&E CO., N.Y.
REG. U.S. PAT. OFF.



"ALBANENE" No. 100M K&E CO., N.Y.
REG. U.S. PAT. OFF.



"ALBANENE" NO. 166M K&E CO., N.Y.
REG. U.S. PAT. OFF.



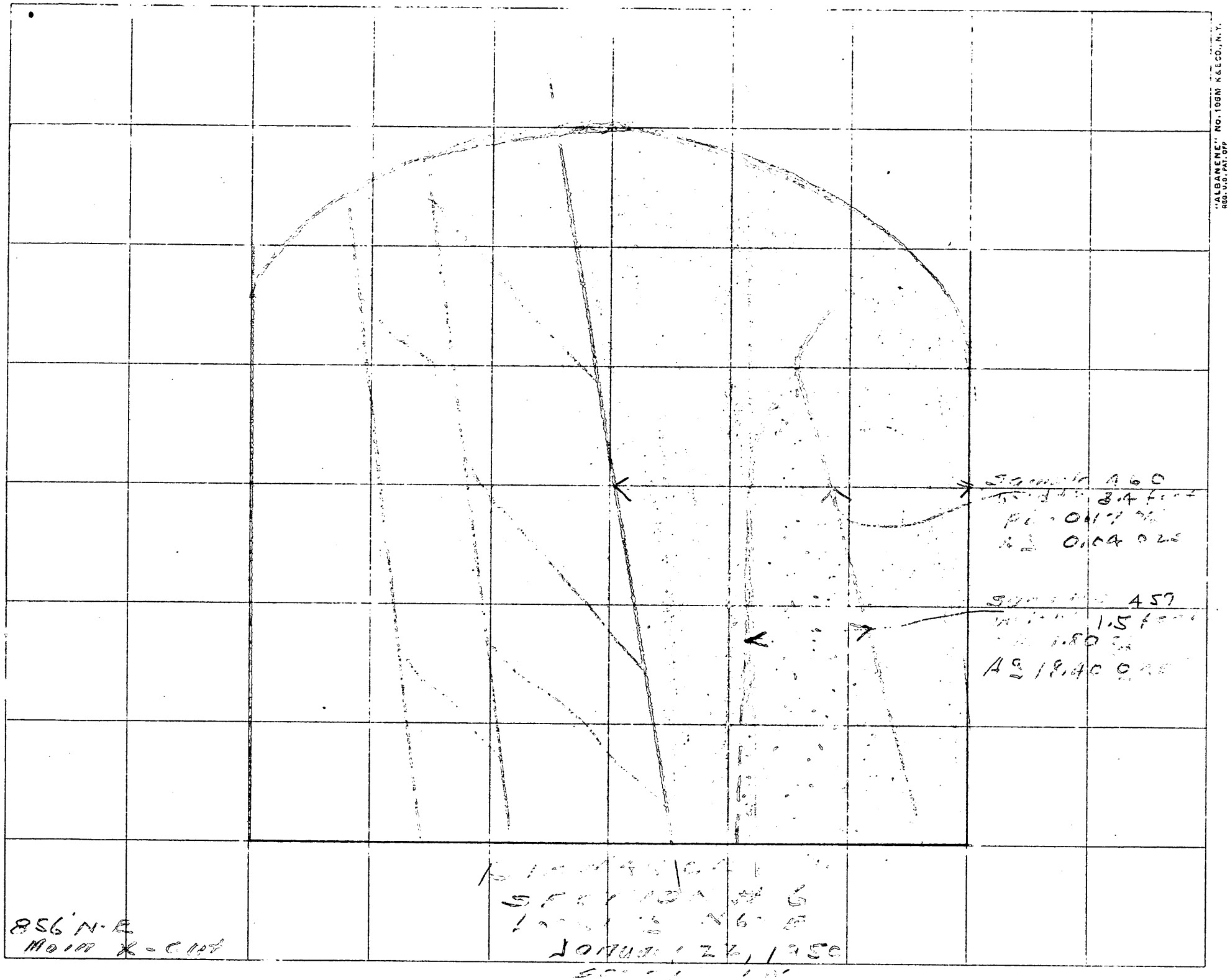
Sample #427
Width 4.3 feet
Pb 0.08 %
Ag 0.00
Not c;

The Rocks drill
and blasted the
16 pm [illegible]
[illegible] about
9 pounds were
[illegible] out of
where the drill
[illegible]
Sample #427 B
B [illegible] flue and
it [illegible]
Pb - 8205 %
Ag 72.7 oz

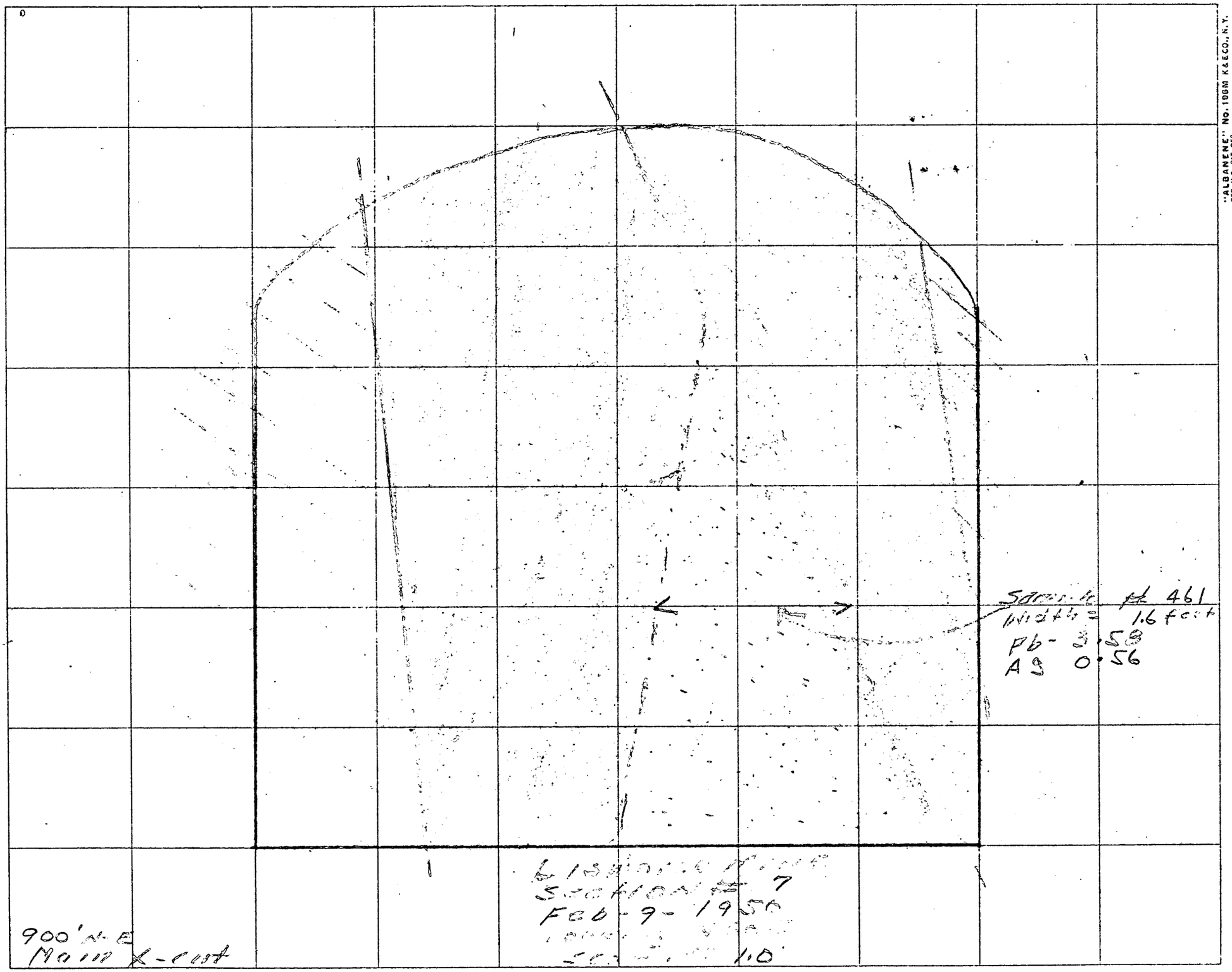
Kilsunder Mine
Section #5
[illegible] 12, 1917

745' NE
Main [illegible]

"ALBANENE" No. 106M K&E CO., N.Y.
REG. U.S. PAT. OFF.

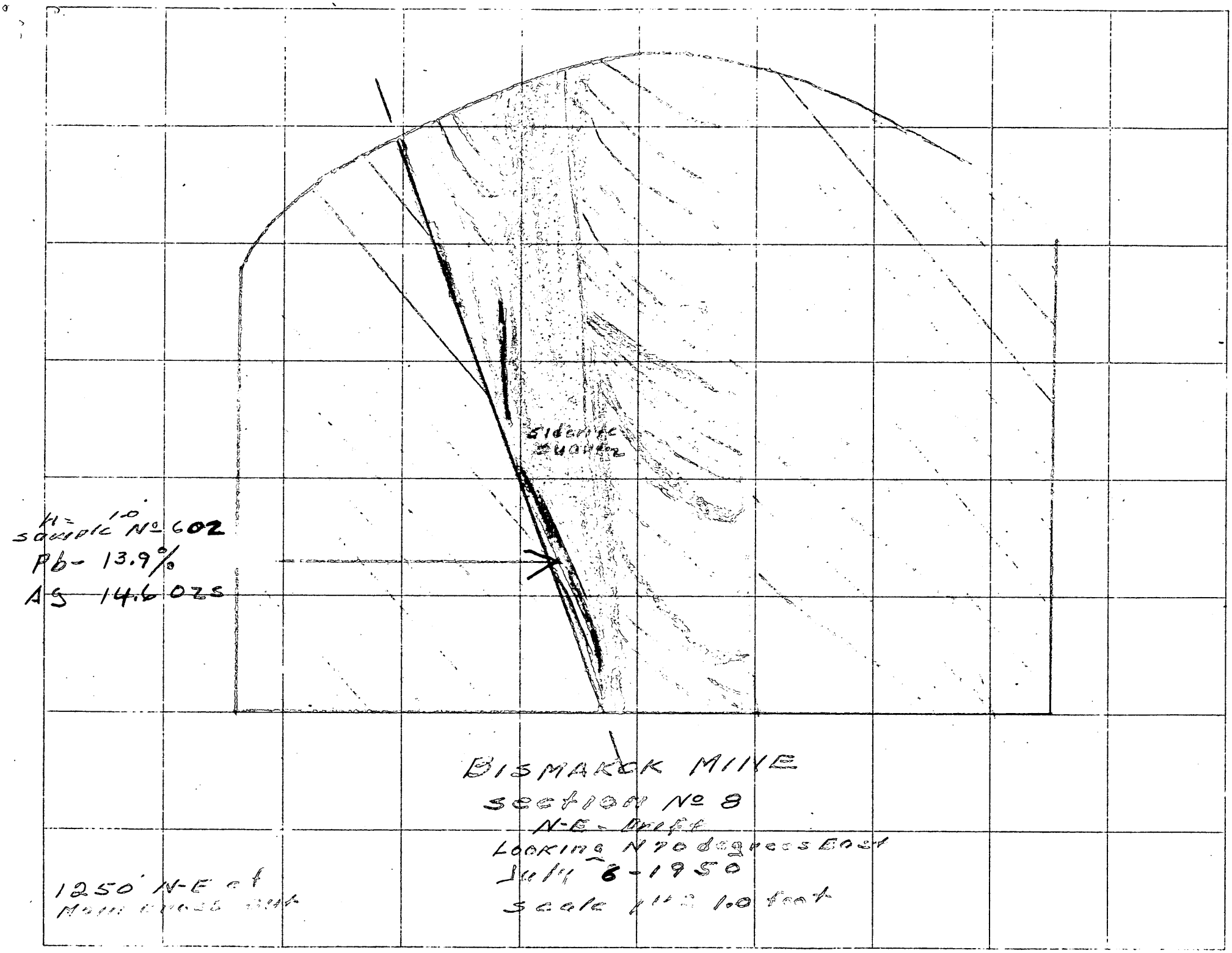


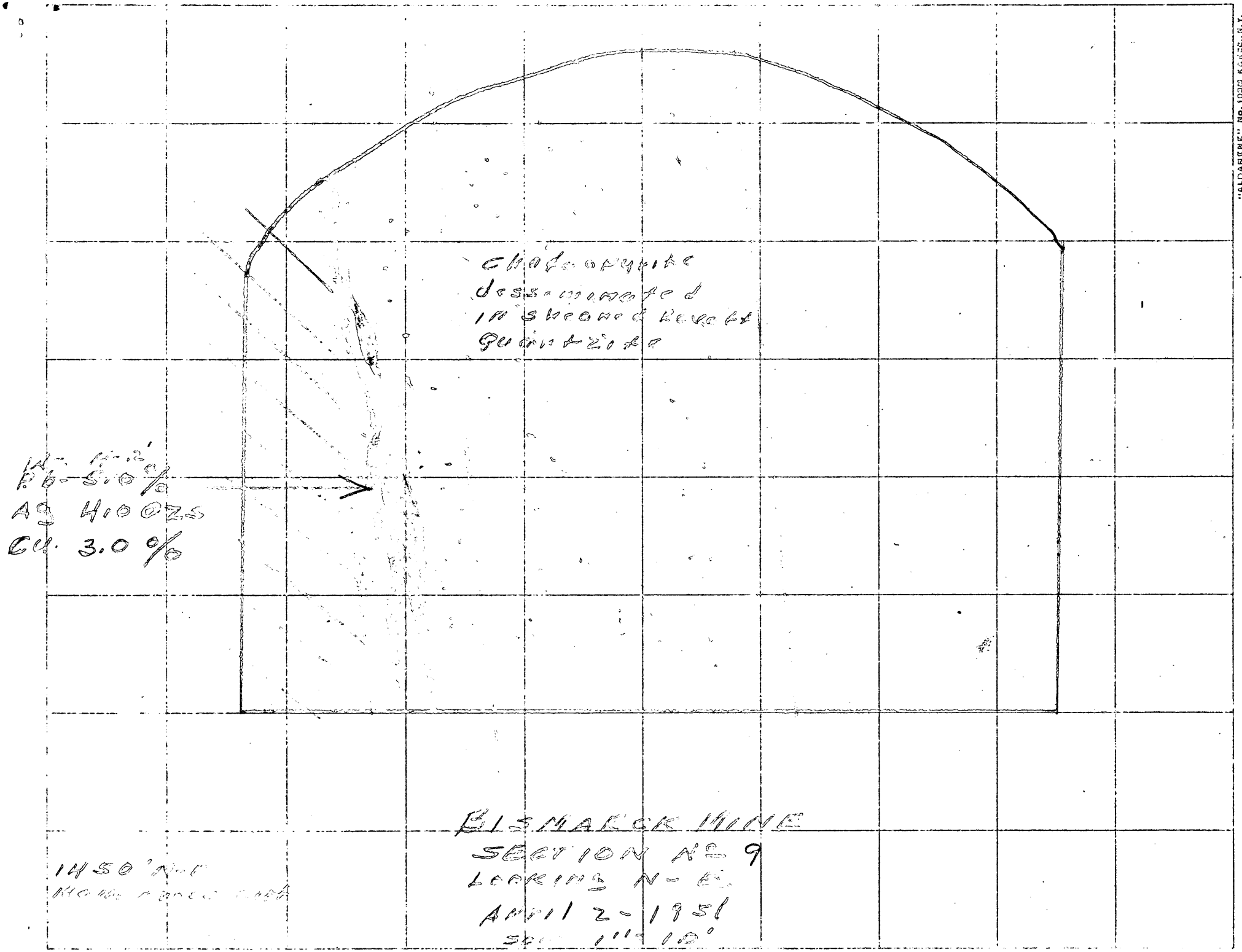
"ALBANENE" NO. 109M K&E CO., N.Y.
REG. U.S. PAT. OFF.



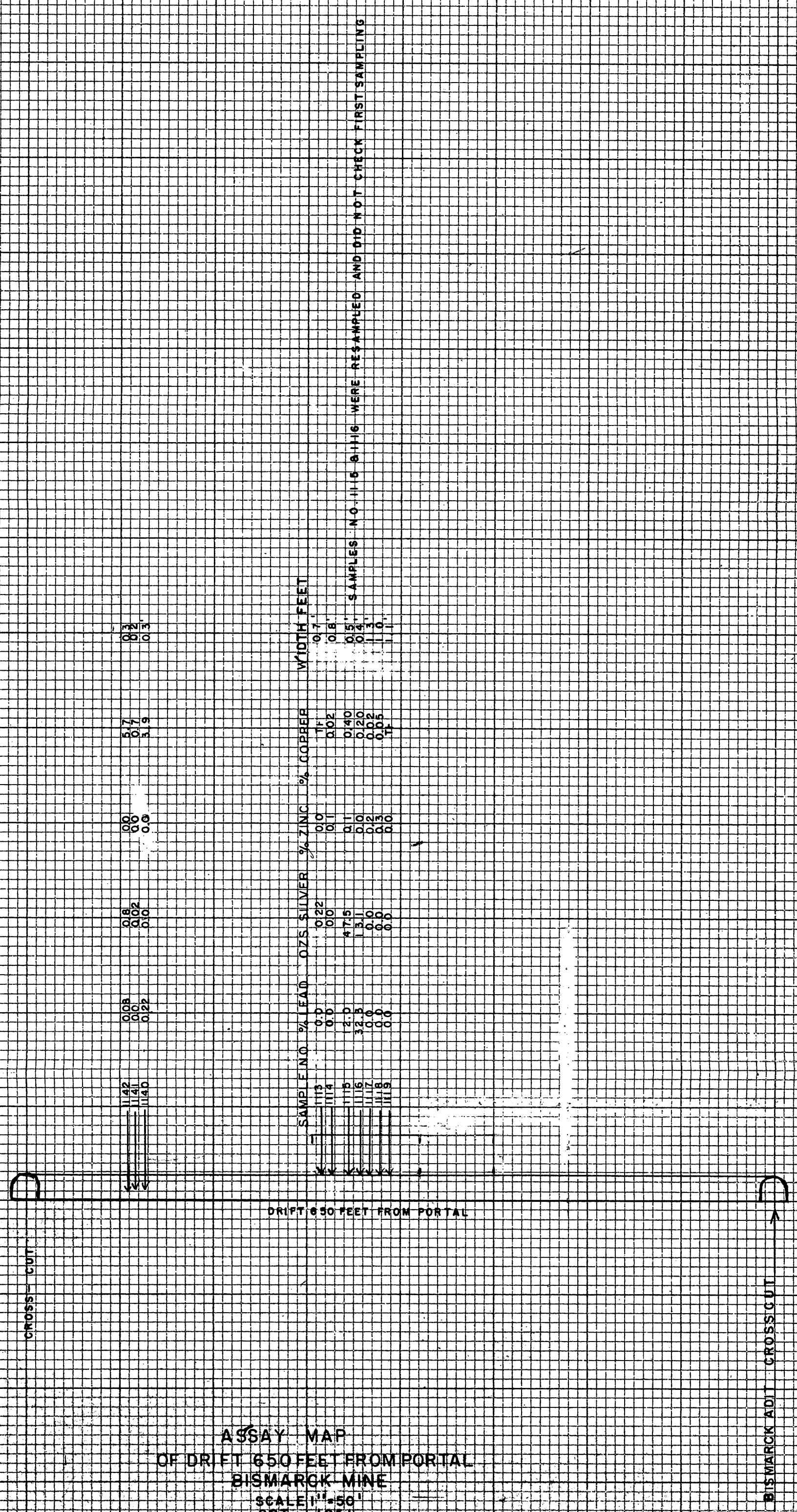
"ALBANENE" No. 1008M K&E CO., N.Y.
REG. U.S. PAT. OFF

"ALBANENE" No. 1008M K&E CO., N.Y.
REG. U.S. PAT. OFF

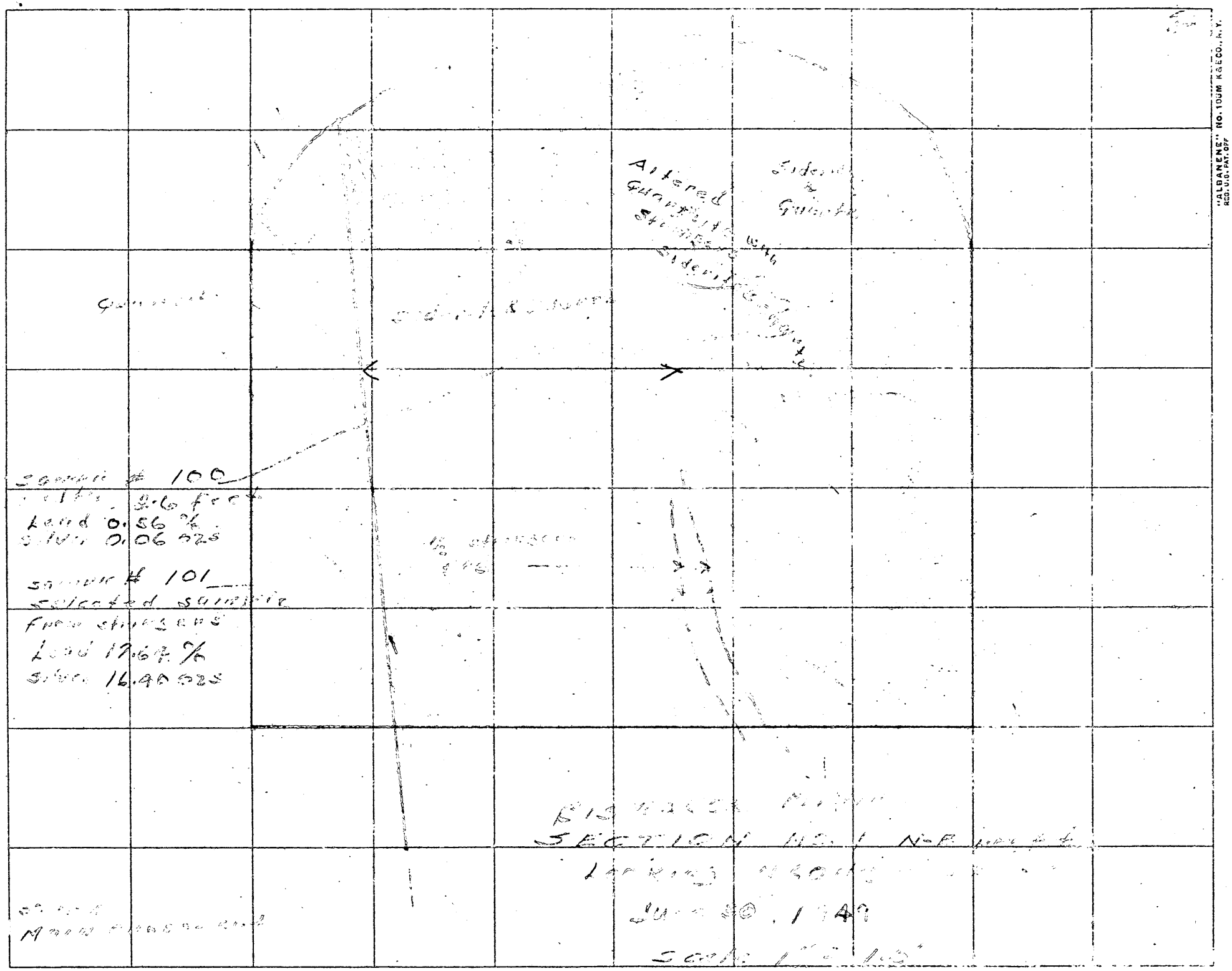

Siderite
Hanger
Hi-10
sample No 602
Pb- 13.9%
Ag 14.6 ozs
BISMARCK MINE
section No 8
N-E- Drift
Looking N 70 degrees East
July 6-1950
Scale 1" = 10 feet
1250' N-E of
Main house


Chalcopyrite
disseminated
in sheared breccia
quartzite
Pb- 5.0%
Ag 410 OZS
Cu. 3.0%
BISMARCK MINE
SECTION No 9
LOOKING N-E
APRIL 2-1951
1450' N.E
"ALDARENE" NO. 1000 KEUFFEL & ESSER CO., N.Y.
REG. U.S. PAT. OFF

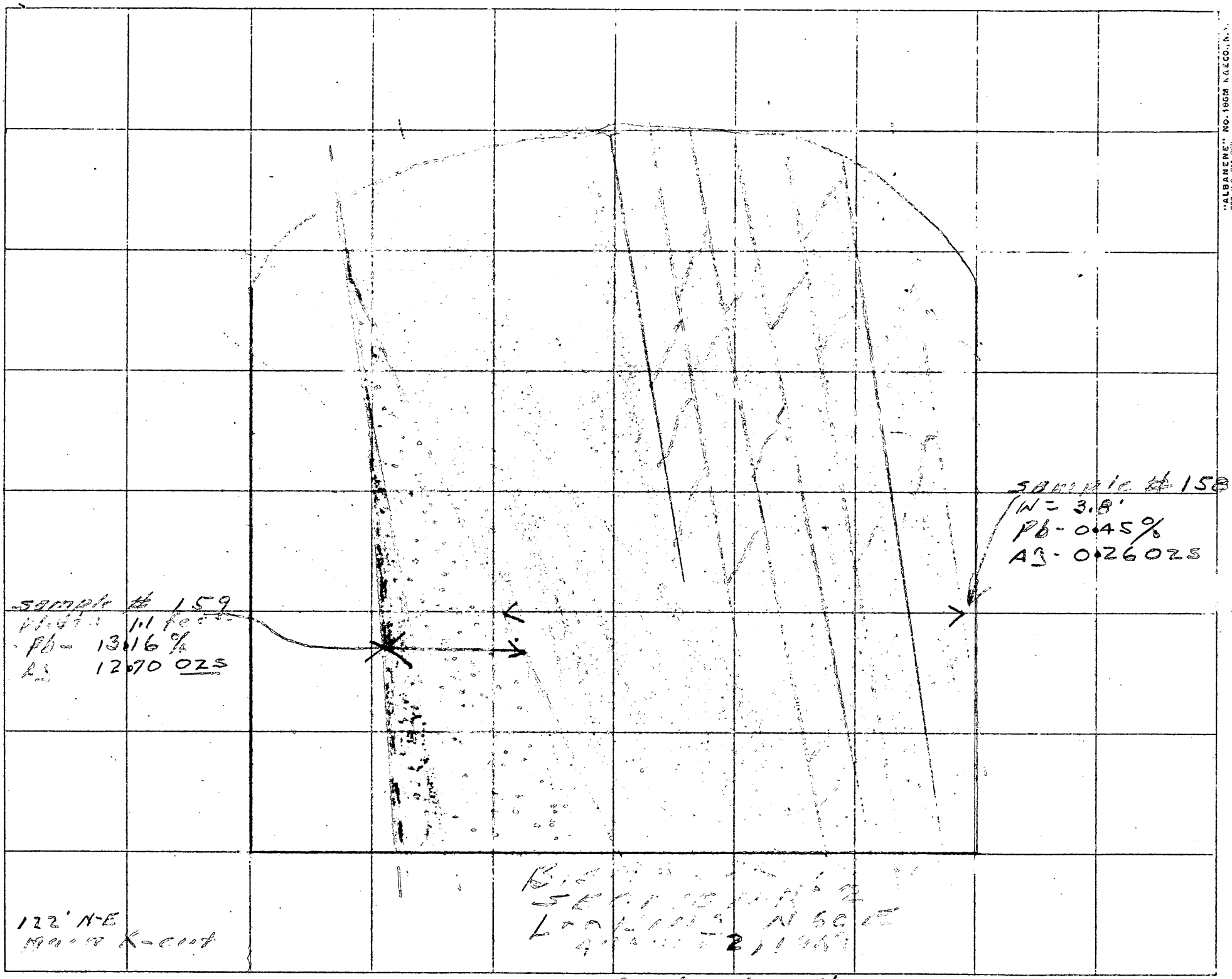
BRUNING COMPANY
SECTION 10 x 10

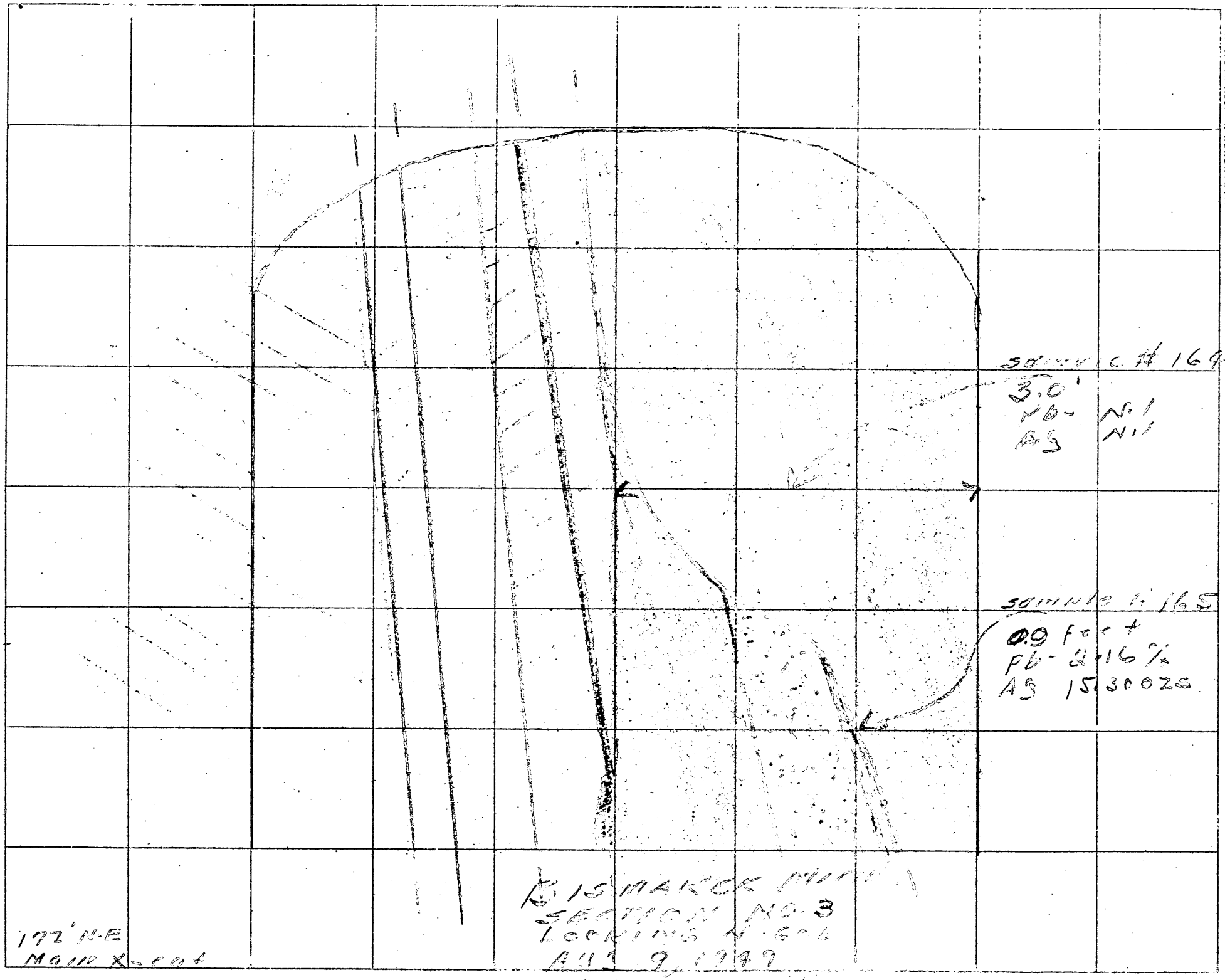


ASSAY MAP
OF DRIFT 650 FEET FROM PORTAL
BISMARCK MINE
SCALE 1" = 50'
OCT. 1951

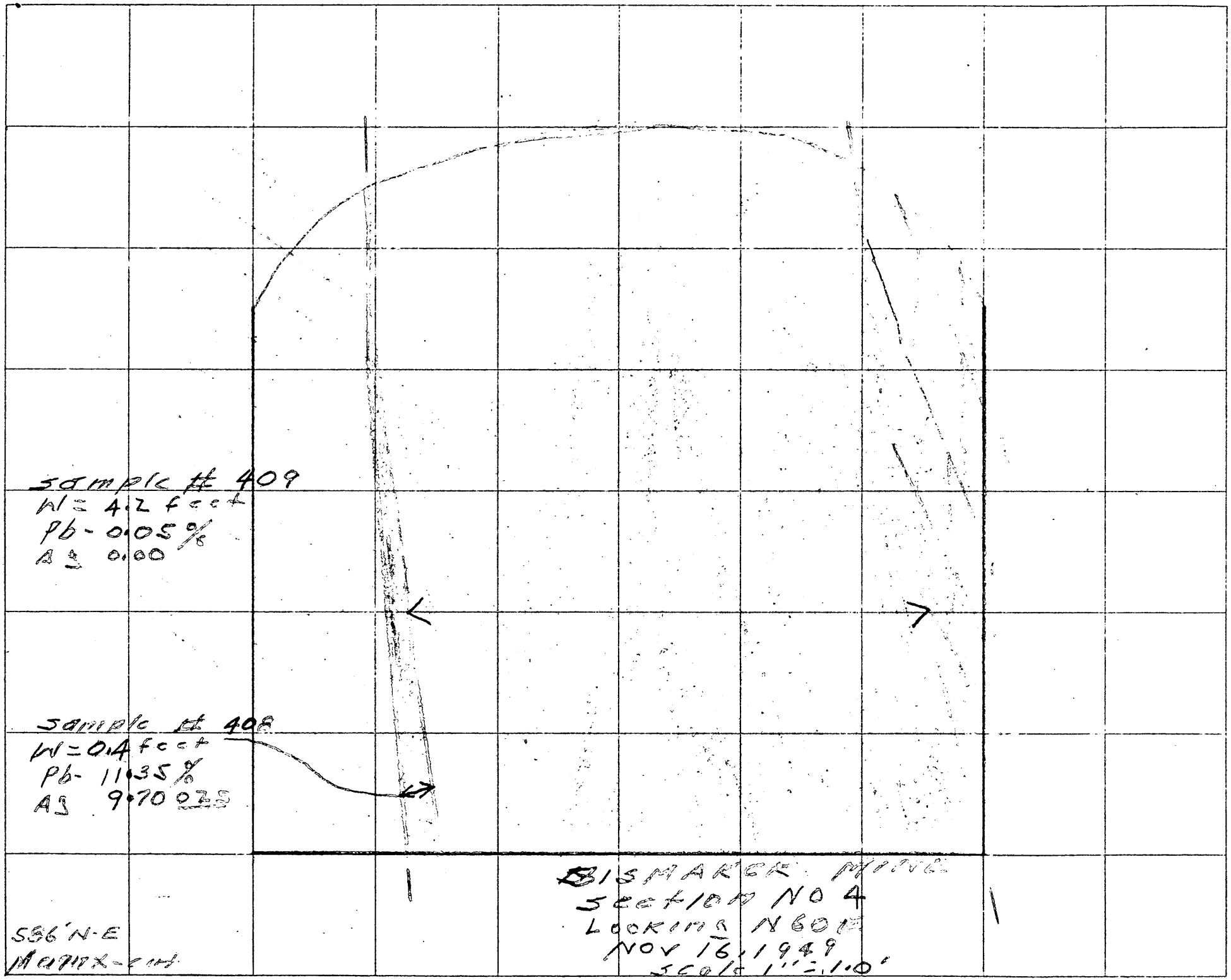


"ALBANENE" No. 100M K&E CO., N.Y.
REG. U.S. PAT. OFF.

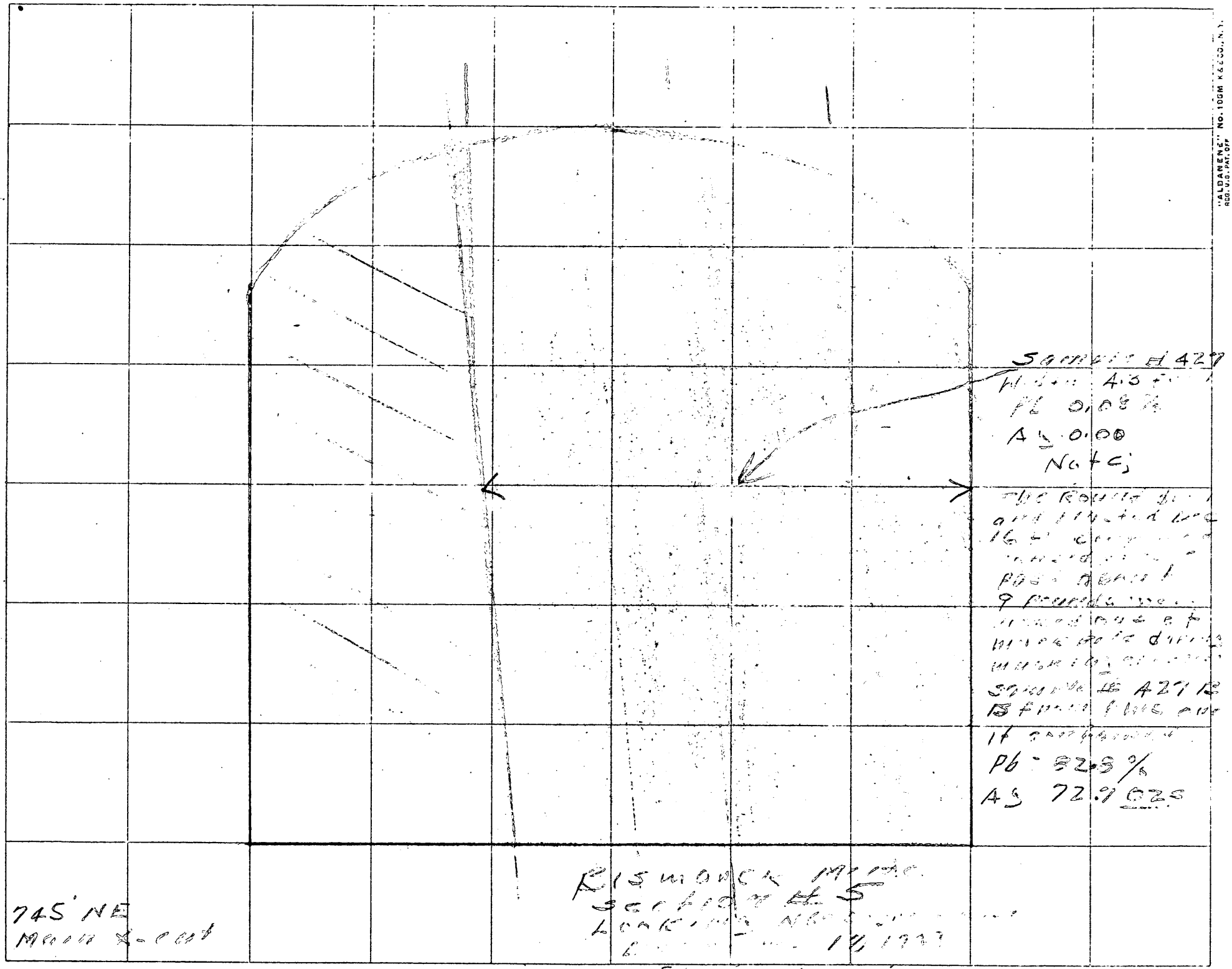

sample # 158
W = 3.8'
Pb - 0.45%
Ag - 0.26 ozs
sample # 159
width 1.1 feet
Pb - 13.16%
Ag 12.70 ozs
122' N-E
Main K-cut

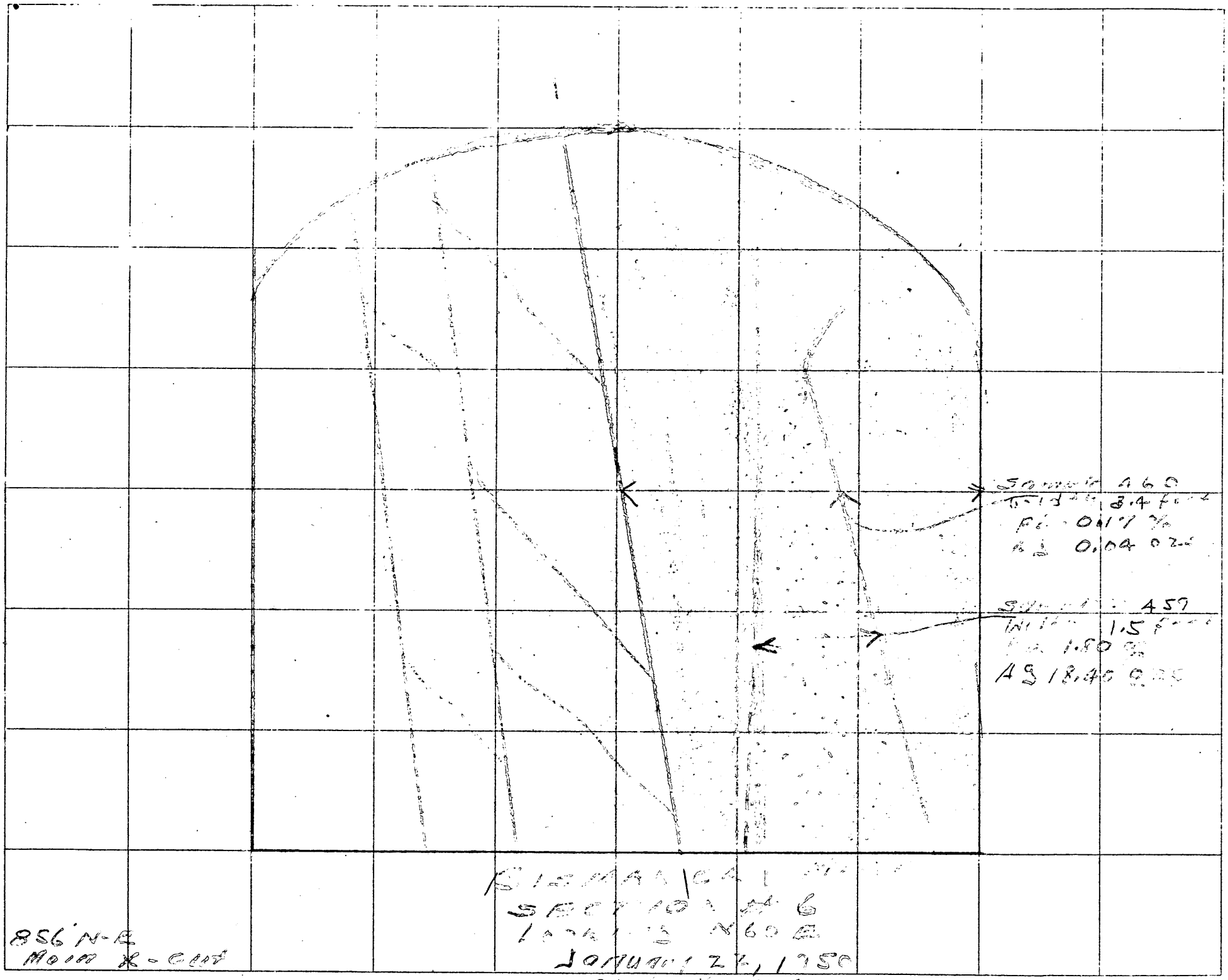


"ALBANENE" No. 106M K&E CO., N.Y.
REG. U.S. PAT. OFF.

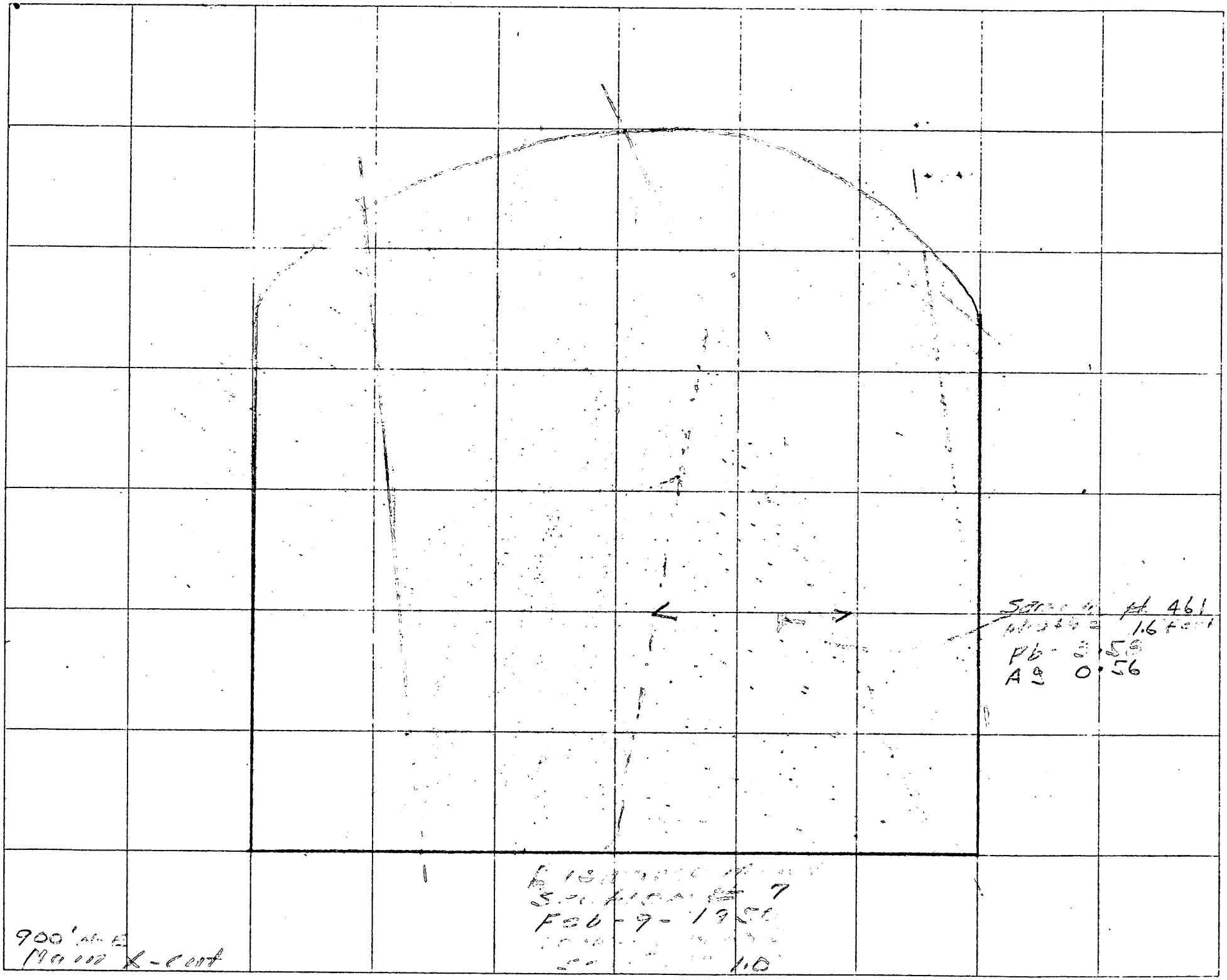


"ALBANENE" No. 166M K&E CO., N.Y.
REG. U.S. PAT. OFF.

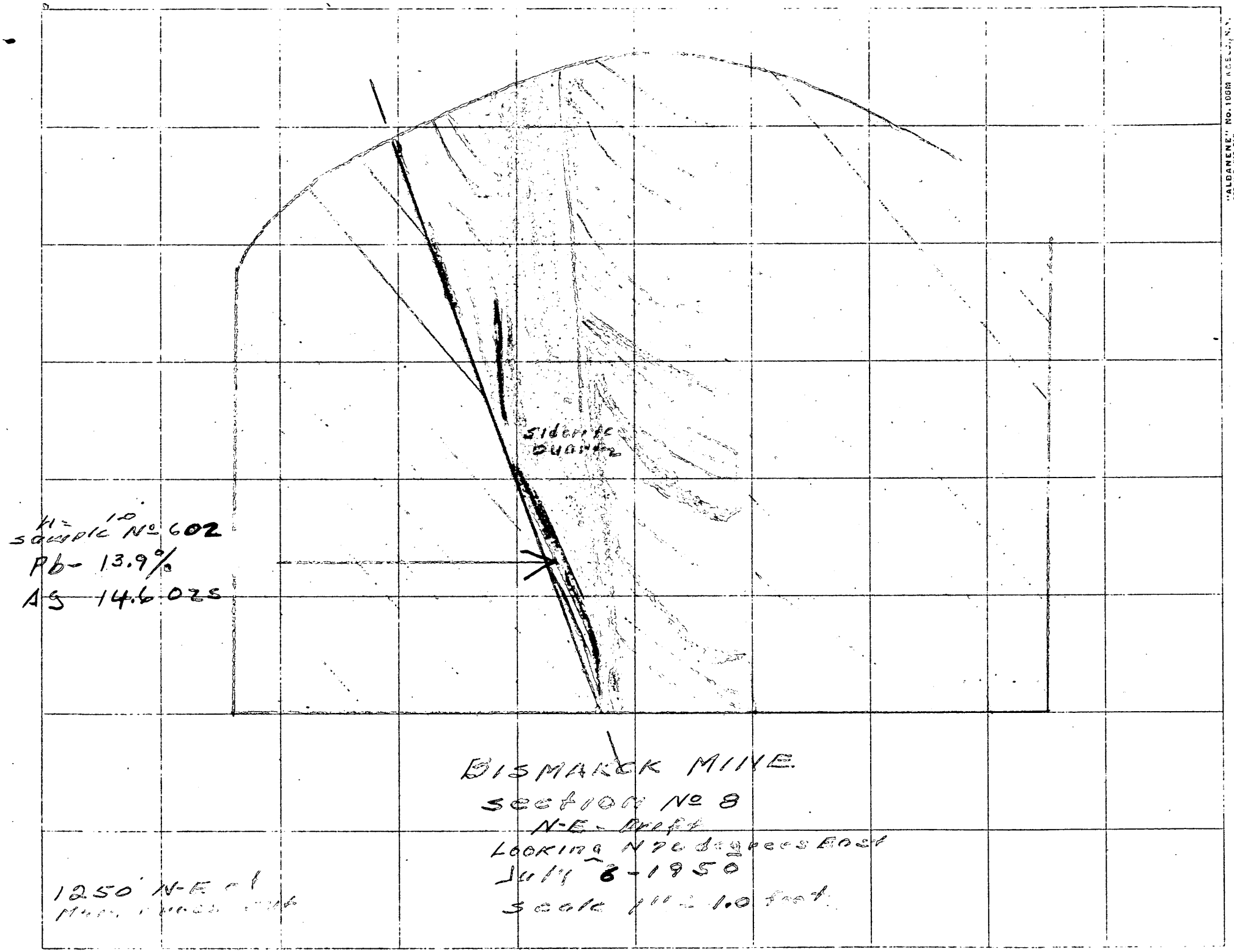

Sample # 427
Pb 0.08 %
Ag 0.00
No Au
Sample # 427 B
Pb 82.5 %
Ag 72.9 OZS
745' NE
Elsinore Mine
Section # 5

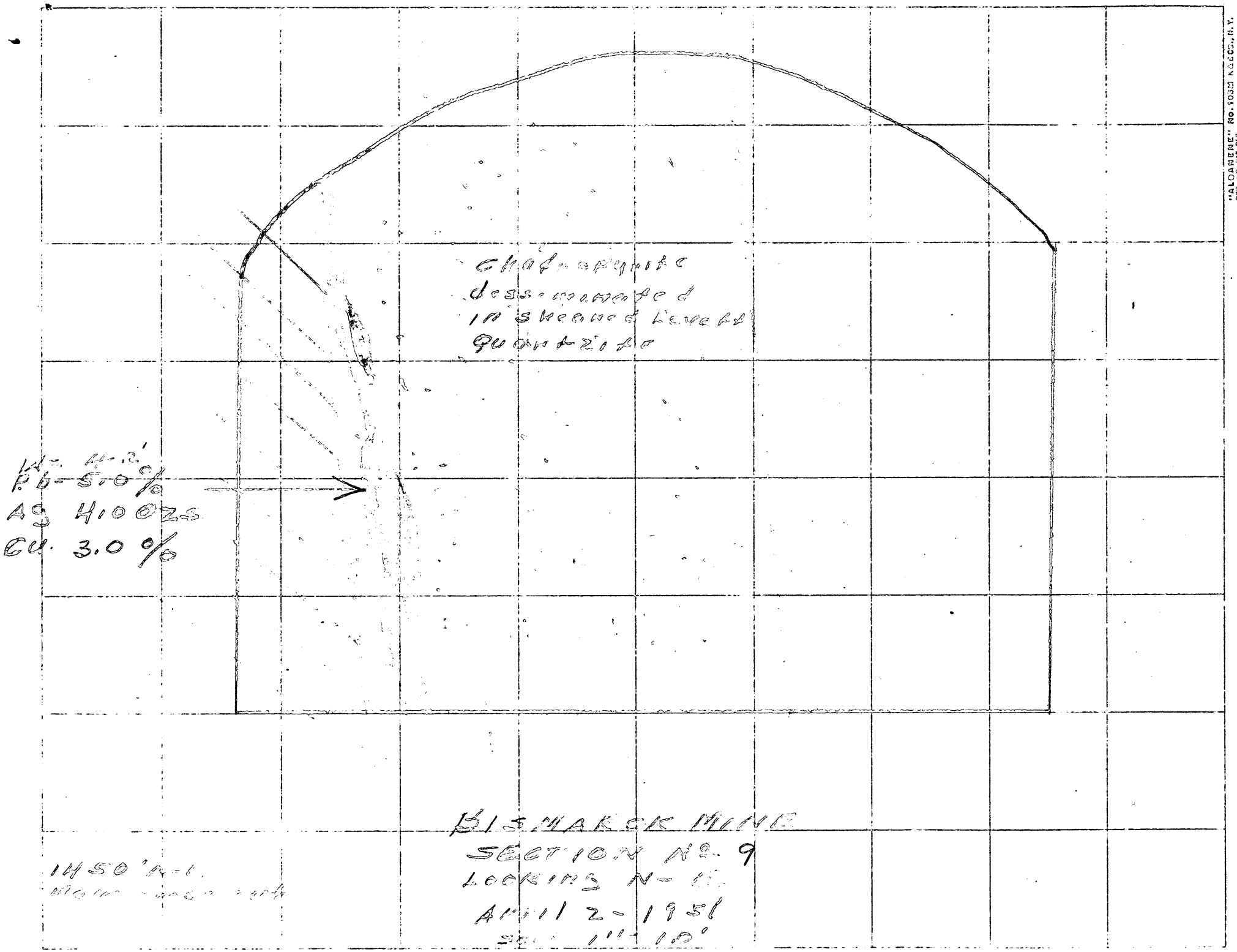


"ALDANENE" No. 100GM K&E CO., N.Y.
REG. U.S. PAT. OFF.



"ALBANENE" NO. 100M K&E CO., N.Y.
REG. U.S. PAT. OFF.

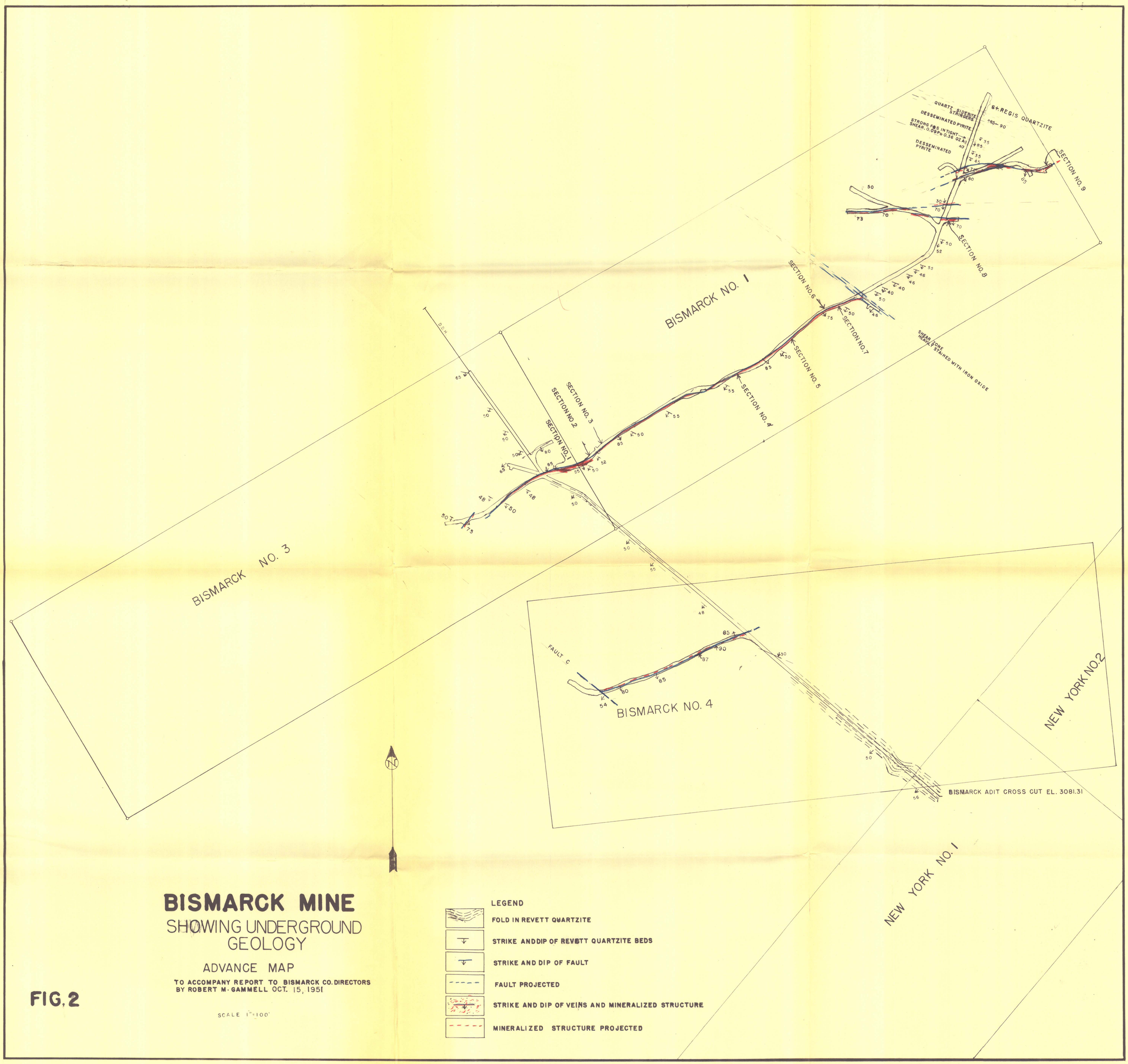

Siderite
Quartz
Hi-10 sample No 602
Pb- 13.9%
Ag 14.6 ozs
BISMARCK MINE
Section No 8
N-E Drift
Looking N 70 degrees East
July 6-1950
Scale 1" = 1.0 foot
1250' N-E of
"ALBANENE" No. 1 GM



"ALDARENE" No. 1037 KEECO, N.Y.
REG. U.S. PAT. OFF.

FIG. 3

PROPOSED DEVELOPMENT
BISMARCK MINE
SHOSHONE COUNTY, IDAHO.
SCALE 1" = 200'
APRIL 25, 1952 ROBERT M. GAMMELL



BISMARCK MINE

SHOWING UNDERGROUND GEOLOGY

ADVANCE MAP

TO ACCOMPANY REPORT TO BISMARCK CO. DIRECTORS
BY ROBERT M. GAMMELL OCT. 15, 1951

SCALE 1" = 100'

FIG. 2

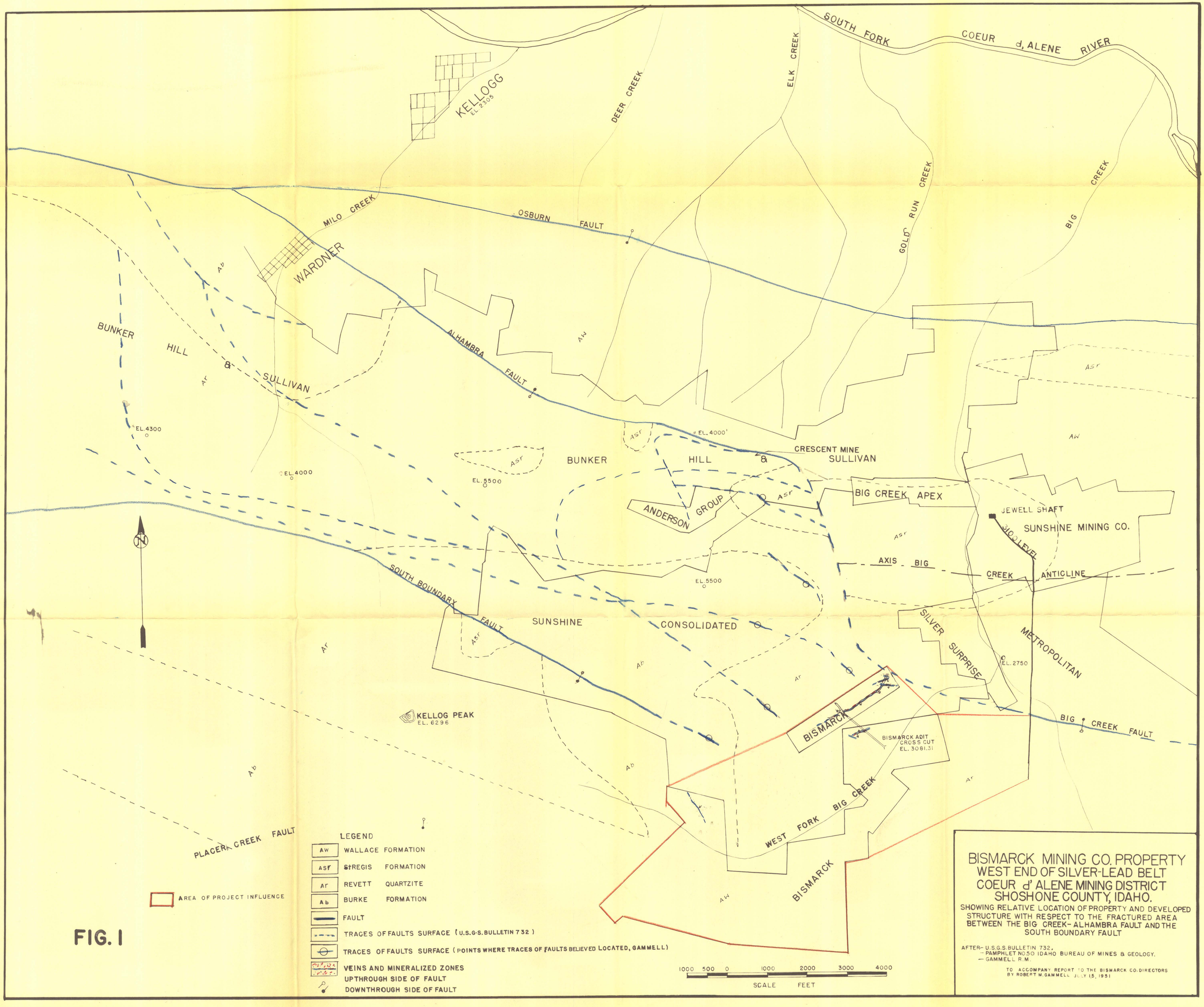
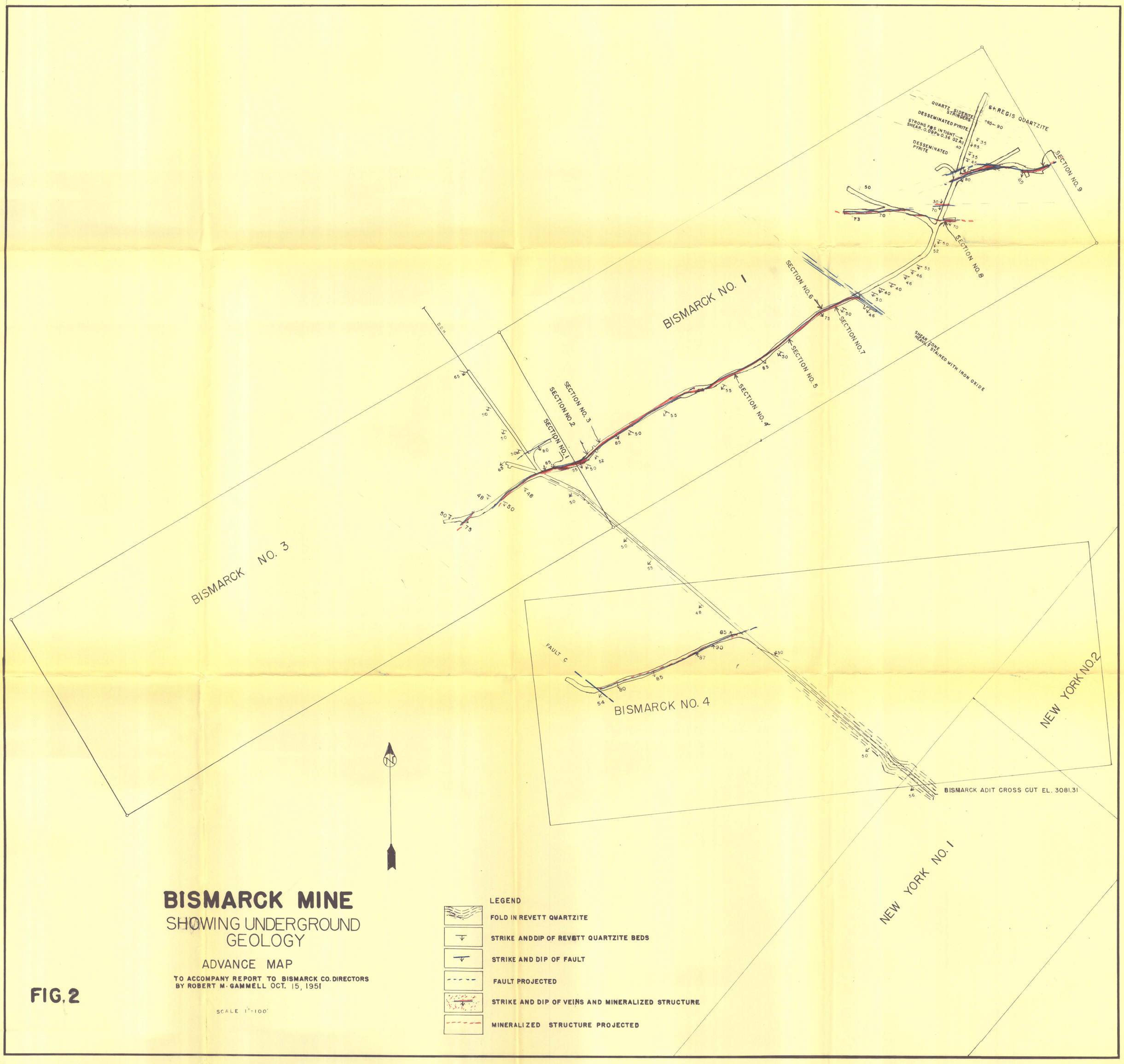

SOUTH FORK COEUR d' ALENE RIVER
KELLOGG
EL. 2305
DEER CREEK
ELK CREEK
GOLD RUN CREEK
BIG CREEK
MILO CREEK
WARDNER
OSBURN FAULT
ALHAMBRA FAULT
BUNKER HILL & SULLIVAN
EL. 4300
EL. 4000
EL. 4000'
EL. 5500
CRESCENT MINE
BIG CREEK APEX
ANDERSON GROUP
JEWELL SHAFT
SUNSHINE MINING CO.
300' LEVEL
AXIS BIG CREEK ANTICLINE
SOUTH BOUNDARY FAULT
SUNSHINE CONSOLIDATED
SILVER SURPRISE
METROPOLITAN
EL. 2750
KELLOG PEAK
EL. 6296
BISMARCK
BISMARCK ADIT CROSS CUT EL. 3081.31
BIG CREEK FAULT
WEST FORK BIG CREEK
PLACER CREEK FAULT
Aw
Asr
Ar
Ab
LEGEND
WALLACE FORMATION
STREGIS FORMATION
REVETT QUARTZITE
BURKE FORMATION
FAULT
TRACES OF FAULTS SURFACE (U.S.G.S. BULLETIN 732)
TRACES OF FAULTS SURFACE (POINTS WHERE TRACES OF FAULTS BELIEVED LOCATED, GAMMELL)
VEINS AND MINERALIZED ZONES
UPTHROUGH SIDE OF FAULT
DOWNTHROUGH SIDE OF FAULT
AREA OF PROJECT INFLUENCE
1000 500 0 1000 2000 3000 4000
SCALE FEET
BISMARCK MINING CO. PROPERTY
WEST END OF SILVER-LEAD BELT
COEUR d' ALENE MINING DISTRICT
SHOSHONE COUNTY, IDAHO.
SHOWING RELATIVE LOCATION OF PROPERTY AND DEVELOPED STRUCTURE WITH RESPECT TO THE FRACTURED AREA BETWEEN THE BIG CREEK-ALHAMBRA FAULT AND THE SOUTH BOUNDARY FAULT
AFTER- U.S.G.S. BULLETIN 732.
- PAMPHLET NO. 50 IDAHO BUREAU OF MINES & GEOLOGY.
- GAMMELL R.M.
TO ACCOMPANY REPORT TO THE BISMARCK CO. DIRECTORS BY ROBERT M. GAMMELL JULY 15, 1951

FIG. 1



BISMARCK MINE

SHOWING UNDERGROUND GEOLOGY

ADVANCE MAP

TO ACCOMPANY REPORT TO BISMARCK CO. DIRECTORS
BY ROBERT M. GAMMELL OCT. 15, 1951

SCALE 1"=100'

FIG. 2

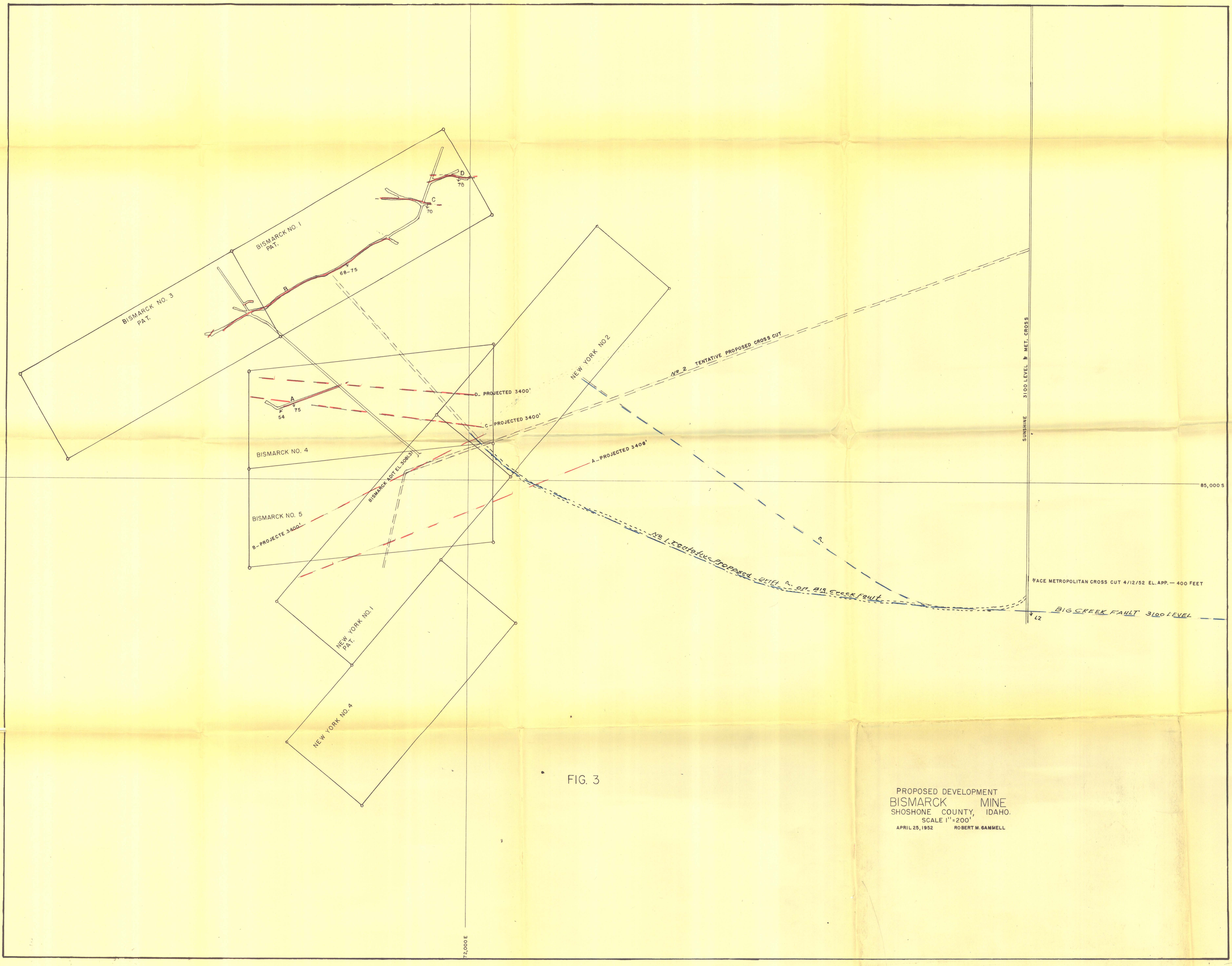
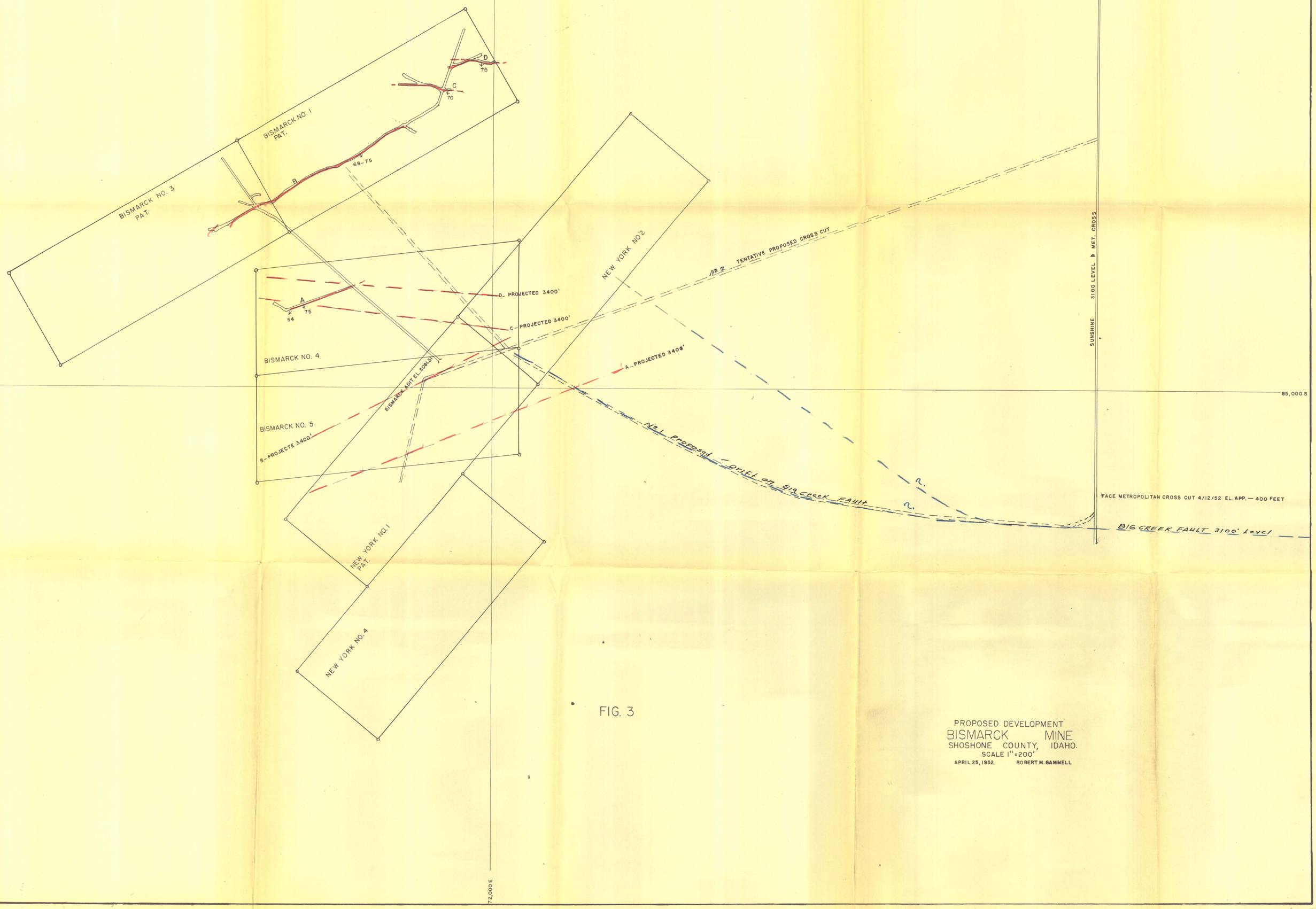


FIG. 3

PROPOSED DEVELOPMENT
BISMARCK MINE
SHOSHONE COUNTY, IDAHO.
SCALE 1" = 200'
APRIL 25, 1952 ROBERT M. GAMMELL



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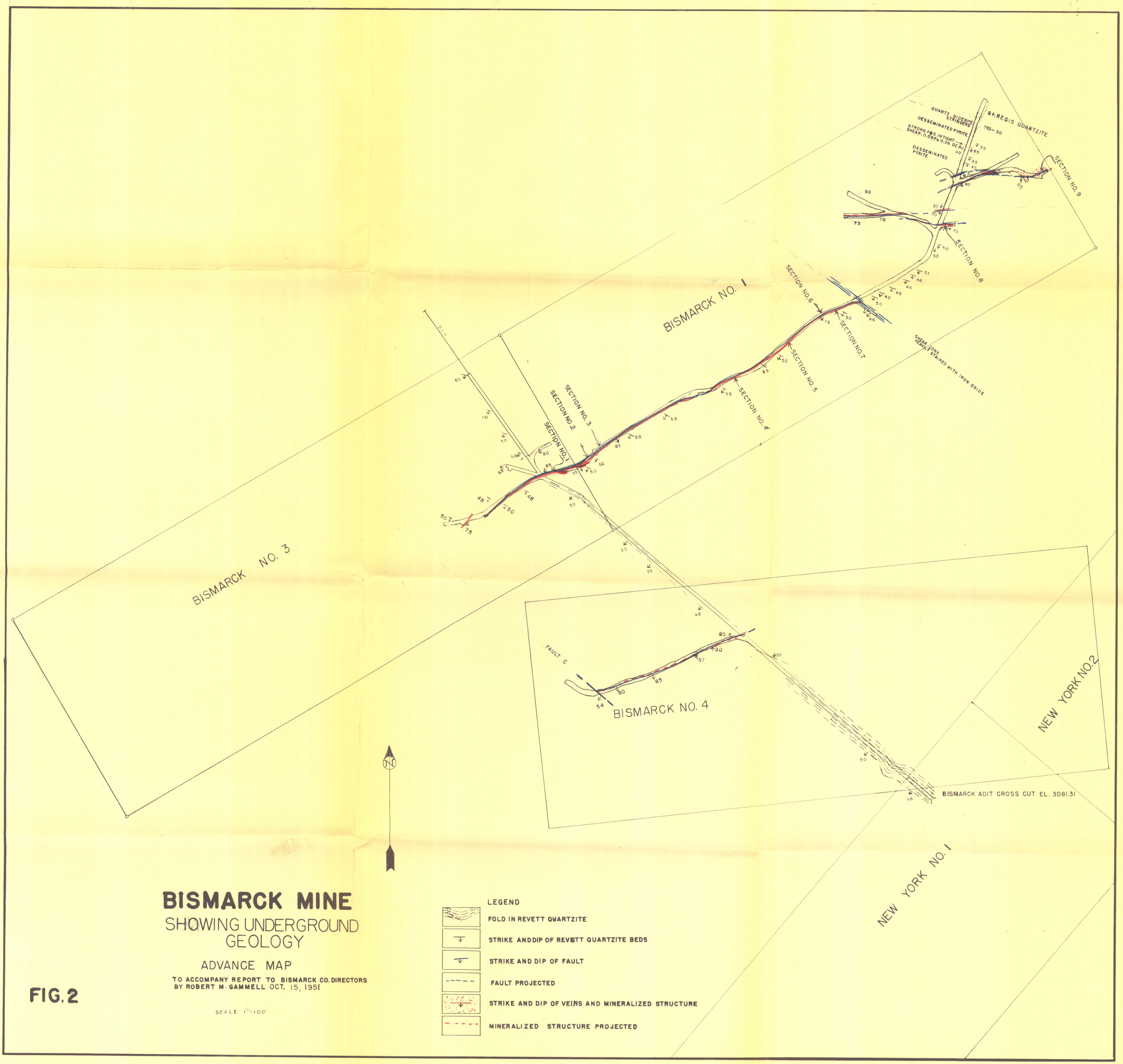
SCALE 1" = 200'
APRIL 25, 1952 ROBERT M. GAMMELL



BISMARCK MINE

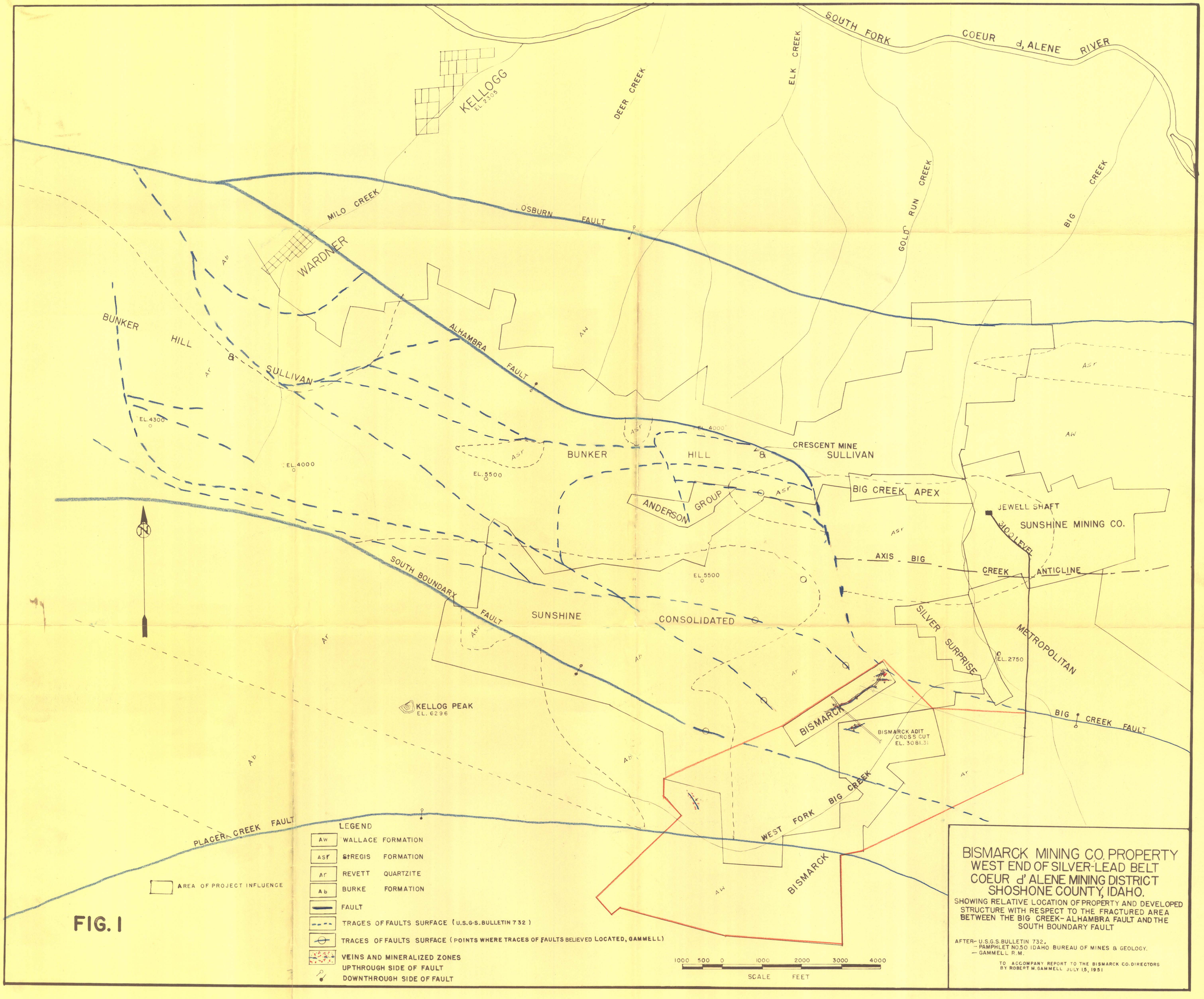
SHOWING UNDERGROUND GEOLOGY

ADVANCE MAP

TO ACCOMPANY REPORT TO BISMARCK CO. DIRECTORS
BY ROBERT M. GAMMELL OCT. 15, 1951

SCALE 1" = 100'

FIG. 2


SOUTH FORK COEUR d'ALENE RIVER
KELLOGG
EL. 2305
DEER CREEK
ELK CREEK
GOLD RUN CREEK
BIG CREEK
MILO CREEK
WARDNER
OSBURN FAULT
ALHAMBRA FAULT
BUNKER HILL & SULLIVAN
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CRESCENT MINE
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WEST FORK BIG CREEK
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Ar REVETT QUARTZITE
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TRACES OF FAULTS SURFACE (U.S.G.S. BULLETIN 732)
TRACES OF FAULTS SURFACE (POINTS WHERE TRACES OF FAULTS BELIEVED LOCATED, GAMMELL)
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SCALE FEET
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TO ACCOMPANY REPORT TO THE BISMARCK CO. DIRECTORS
BY ROBERT M. GAMMELL JULY 15, 1951

FIG. 1