CONTACT INFORMATION
Mining Records Curator
Arizona Geological Survey
416 W. Congress St., Suite 100
Tucson, Arizona 85701
602-771-1601
http://www.azgs.az.gov
inquiries@azgs.az.gov

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Dixie Apex

I.L. Smudberg

298 4837

886-1876

6990 E. Broadway

85710

Suite 105-107

SPEED MEMO

To I. L. Sandberg

At The Gallagher Co. 6990 E. Broadway Suite 105 Tucson, Az. 85710

Subject Dixie Apex Prospect Report

Date 11-3-75

Enclosed you will find the following data: 1) 7 Maps & Cross Sections
2) Summary Report by Morris Trover
3) Geologic Report dated June 1975 unsigned. by Ken McGriffin.

PLEASE REPLY TO → Signed [illegible] At [illegible]

This is the entire file on the property and I assume the data is yours as there is correspondence to substantiate your claim.

Please acknowledge receipt of the above by signing & dating & returning this copy to my office — stamped envelope is enclosed.

Date 11-4-75

Signed I. L. Sandberg

E. Grover Heinrichs
E. GROVER HEINRICHS
Mgr. of Expl.

ACT 002

Thanks very much for your courtesy.

REPLIER – RETURN THIS COPY

1/31/73

Dixie Apex Mine

South of St. George and North of the Colorado river there are several Pliocene and later dikes and volcanoes that intruded basin and range structures. These intrusives are basaltic in composition. Minor amounts of Cu are associated and can be found locally along most basin and range structures.

The Dixie Apex appears to be a local concentration of mineralization on a basin and range structure. The possibility of finding a sufficient tonnage to be of interest to Essex is very remote.

Perhaps a trip into this area should be made, so that we can have first hand knowledge to substantiate the above and be prepared to respond to future submittals from the region.

Bud

Apex Mine
Utah

September 10, 1973

Mr. I.L. Sandberg
Manager, Midwest Area
The Galigher Company
Suite #201-A, Elk Grove Executive House
500 East Higgins Road
Elk Grove Village, Illinois 60007

Dear Mr. Sandberg:

In reviewing my files I find that I have not corresponded with you since receiving your letter of February 7, 1973.

We have studied the area of the Apex Mine in southern Utah and have decided to do no further work on the property at this time. If you develop more information from your office we would appreciate receiving it.

Please excuse my delay in informing you of our actions on the property.

Very truly yours,

Paul I. Eimon
Manager of Exploration

ESSEX INTERNATIONAL, INC.

PIE:td

cc: H. Lanier

Memorandum from

HOWARD LANIER

8/3/73

PAUL EIMON

HAS THIS BEEN
LOOKED AT BY BUD ?

SXM
AUG 6 1973
RECEIVED

8/21/73

Bud
?

6/34/72
I have looked at Paul
The area, but not in the mine.
Recommend no interest by Essex.
Bud

File Dixie Queen Mine
Washington Cty, Utah
Tutsagubet Mng Dist.

February 2, 1973

Mr. I.L. Sandberg
Manager, Midwest Area
The Galigher Company
Suite #201-A, Elk Grove Executive House
500 East Higgins Road
Elk Grove Village, Illinois 60007

Dear Mr. Sandberg:

This will acknowledge your letter of January 17, 1973, to Mr. Howard Lanier.

We would like to have our Essex Exploration Geologist, Mr. Dennis C. Temple, visit the Apex Mine during March of this year as part of the exploration we are doing in that general area. Mr. Temple is scheduling work in that area and if it would be possible for you to have someone show him the property please contact Mr. Temple directly by mail at our Tucson office. If we do not hear from you he will go directly to the mine to evaluate the property.

We would like to keep the maps and reports sent to Mr. Lanier until we have visited the property and will return them after that visit if the property is of no further interest to us.

Sincerely yours,

Paul I. Eimon
Manager of Exploration

PIE:td

cc: D.C. Temple

THE GALIGHER COMPANY

ESTABLISHED 1901

Home Office Salt Lake City, Utah

CABLE ADDRESS
"GALSAL"

TELEPHONE
593-0887
AREA CODE 312

Suite #201-A, Elk Grove Executive House
500 East Higgins Road
Elk Grove Village, Illinois 60007

COPY

February 7, 1973

Essex International
Metals and Mining Division
1704 West Grant Road
Tucson, Arizona 85705

Attention: Mr. Paul I. Eimon, Manager of Exploration

Dear Mr. Eimon:

I have received your letter of February 2, 1973, acknowledging receipt of the Apex Mine maps and reports.

I am sorry to advise that I do not know what the present status of this property may be. It has been several years since I looked at the mine. At that time, Mr. Emerald Cox of St. George, Utah was the owner.

My best suggestion would be to contact Mr. Cox or the Washington County Court House to determine present ownership.

Please feel free to retain the maps and reports as long as you have use for them.

Sincerely Yours,

THE GALIGHER COMPANY

I. L. Sandberg
Manager, Midwest Area

cc: Mr. Howard Lanier
G. L. Oppel, SLC Office

ESSEX

ESSEX INTERNATIONAL, INC.
METALLURGICAL & MINING DIVISION
1704 WEST GRANT RD., TUCSON, ARIZONA 85705 • PHONE (602) 624-7421

RECEIVED
M & M Division
FEB 5 1973

February 2, 1973

Mr. I.L. Sandberg
Manager, Midwest Area
The Galigher Company
Suite #201-A, Elk Grove Executive House
500 East Higgins Road
Elk Grove Village, Illinois 60007

Dear Mr. Sandberg:

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Sincerely yours,

Paul I. Eimon
Manager of Exploration

PIE:td

cc: D.C. Temple
H. Lanier

Paul Eimon
Please Review
Proceed if you feel it has merit. acknowledge for me

Schedule visit

THE GALIGHER COMPANY

ESTABLISHED 1901

Home Office Salt Lake City, Utah

RECEIVED
M & M Division
JAN 22 1973

CABLE ADDRESS
"GALSAL"

Suite #201-A, Elk Grove Executive House
500 East Higgins Road
Elk Grove Village, Illinois 60007

TELEPHONE
593-0887
AREA CODE 312

SXM
JAN 29 1973
RECEIVED

January 17, 1973

Essex International Inc.
1550 Wall Street
Fort Wayne, Indiana 46804

Attention: Mr. Howard Lanier, V. P. and Gen. Mgr.

Dear Howard:

Enclosed are the Dixie Apex Mine maps and reports which I promised to send. When you no longer have use for them, I would appreciate having them returned. Feel free to make copies for your files if you so choose.

I enjoyed the meeting and discussion of your plans; and I hope, in some small way, we may be able to contribute to the success of your operations. Our Salt Lake Office will be in touch with Bob Lear, at Milford. Please give Bob my regards when you see him.

Best personal regards,

THE GALIGHER COMPANY

Sandy

I. L. Sandberg
Manager, Midwest Area

cc: G. L. Oppel, SLC Office

File: Dixie Apex Mine

THE GALIGHER COMPANY

ESTABLISHED 1901

Home Office Salt Lake City, Utah

CABLE ADDRESS
"GALSAL"

TELEPHONE
593-0887
AREA CODE 312

Suite #201-A, Elk Grove Executive House
500 East Higgins Road
Elk Grove Village, Illinois 60007

SXM
FEB 9 1973
RECEIVED

February 7, 1973

Essex International
Metals and Mining Division
1704 West Grant Road
Tucson, Arizona 85705

Attention: Mr. Paul I. Eimon, Manager of Exploration

Dear Mr. Eimon:

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My best suggestion would be to contact Mr. Cox or the Washington County Court House to determine present ownership.

Please feel free to retain the maps and reports as long as you have use for them.

Sincerely Yours,

THE GALIGHER COMPANY

I. L. Sandberg
Manager, Midwest Area

cc: Mr. Howard Lanier
G. L. Oppel, SLC Office

FADE PRINTED ON NO. 500M CLEARPRINT

Drift to N.W. Several Hundred Feet

Dol
2.50-3.00% Cu
Mag. Fe
Chalcocite

Planted with Explosives

Timbered

Broken Ground

Apex Fault Projection N 34°W

Dol
2.00-2.50% Cu
Mag. Fe
Chalcocite

HOIST ROOM

MAIN SHAFT

Stat. 2 to Portal 80ft. S 88° 45' E

Timbered

Broken Ground

Main Adit

SAMPLE NO.	Ge	Fe	SiO_2	CaO	Cu	Cu Ox
500-N-12	0.039	9.84	25.40	16.20	0.756	0.529
500-N-13	0.032	15.67	28.80	8.28	1.740	1.309
500-N-15	0.065	18.21	57.80	0.40	1.536	1.071
500-N-6	0.013	25.93	21.30	0.88	0.24	0.13
500-N-5	0.048	27.33	42.20	0.50	0.51	0.28
500-N-4	0.025	11.65	73.40	0.48	0.19	0.07
500-N-3	0.023	19.90	44.70	0.60	0.10	0.07
500-N-1	0.050	37.58	19.30	0.84	0.44	0.18
500-N-2	0.044	34.54	18.90	0.70	0.33	0.13
500-N-14	0.102	24.32	38.20	2.20	1.792	1.326
500-N-7	0.014	17.50	57.40	0.40	0.27	0.08
500-N-8	0.011	18.69	57.00	0.40	0.22	0.07
500-N-10	0.081	40.20	28.40	0.92	0.434	0.159
500-N-9	0.050	35.98	32.80	0.48	0.48	0.12
500-N-11	0.052	6.43	17.00	20.00	1.510	1.309

SAMPLE NO.	Ge	Fe	SiO_2	CaO	Cu	Cu Ox
500-S-1	0.408	31.55	27.00	2.00	1.715	1.530
500-S-3	0.058	10.85	14.80	16.24	1.906	1.717
500-S-2	0.113	23.11	40.20	4.68	0.921	0.684
500-S-5	0.043	22.51	37.60	6.72	0.598	0.243
500-S-4	0.023	3.41	8.30	26.00	0.947	0.816
500-S-6	0.092	38.19	22.10	0.72	1.510	0.765
500-S-7	0.080	47.23	10.00	1.20	0.774	0.201
500-S-8	0.032	36.38	13.80	7.08	0.510	0.168
500-S-9	0.050	42.00	25.00	0.52	0.365	0.078
500-S-10	0.046	47.06	17.40	0.32	0.410	0.079

+15.5°

N

500 LEVEL

APEX MINE

WASHINGTON COUNTY, UTAH

0 20 40 60

Scale

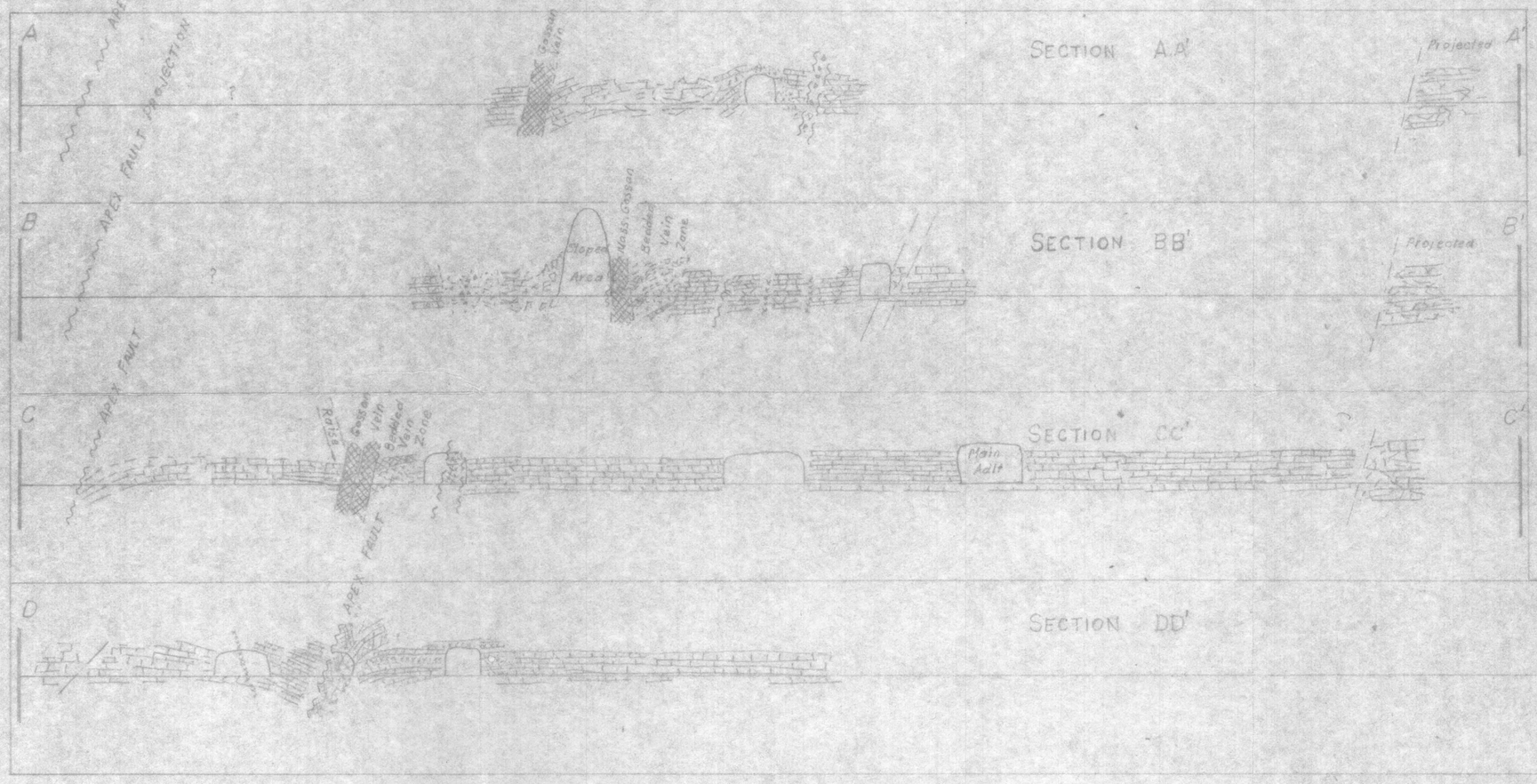
EXPLANATION

Rocks exposed underground are limestones of variable structure, texture and composition. Hard siliceous phases predominate, sandy, dolomitic material common in altered zones. Fine uniform textured pure limestones in lower levels mainly. Rocks are probably Carboniferous in age.

- Bedding relatively undisturbed.
- Bedding indistinct.
- Rock intensely fractured.
- Loose breccia blocks.
- Unique limestone bed.
- Distinct shale bed or parting between limestone beds.
- Altered breccia zone, sandy, clayey, limestone fragments softened.
- Vein zone with scattered FeOx gossan.
- Massive FeOx gossan.
- Vertical wall sample cut.
- Two or more cuts in same sample.
- Horizontal wall sample cut, length as indicated.
- Strike and dip of bedded rocks. Dashed where uncertain.
- Direction and dip of contacts and veins.
- Fault, dip angle of fault plane in degrees.
- Fault with gouge zone.
- Shear or fracture, displacement of breccia-tion along the fracture plane ind.
- Shear or fracture with brecciation along fracture plane.
- Open fractures or solution cavities.
- Survey spad or marker.
- Workings surveyed or traversed for this map.
- Workings as shown on old mine maps.
- Vertical raise and height above track level.
- Inclined raise, inclination angle and height.

Survey Work, geological mapping, sampling and preparation of accompanying Geologic Report on Apex Mine by Kay McGriffin, Consulting Geologist, May - June 1962.

SCALE:
DATE:
APPROVED BY:
DRAWN BY
REVISED
DRAWING NUMBER



Apex Mine, Washington Co. Utah

SCALE:	APPROVED BY:	DRAWN BY
DATE:		REVISED

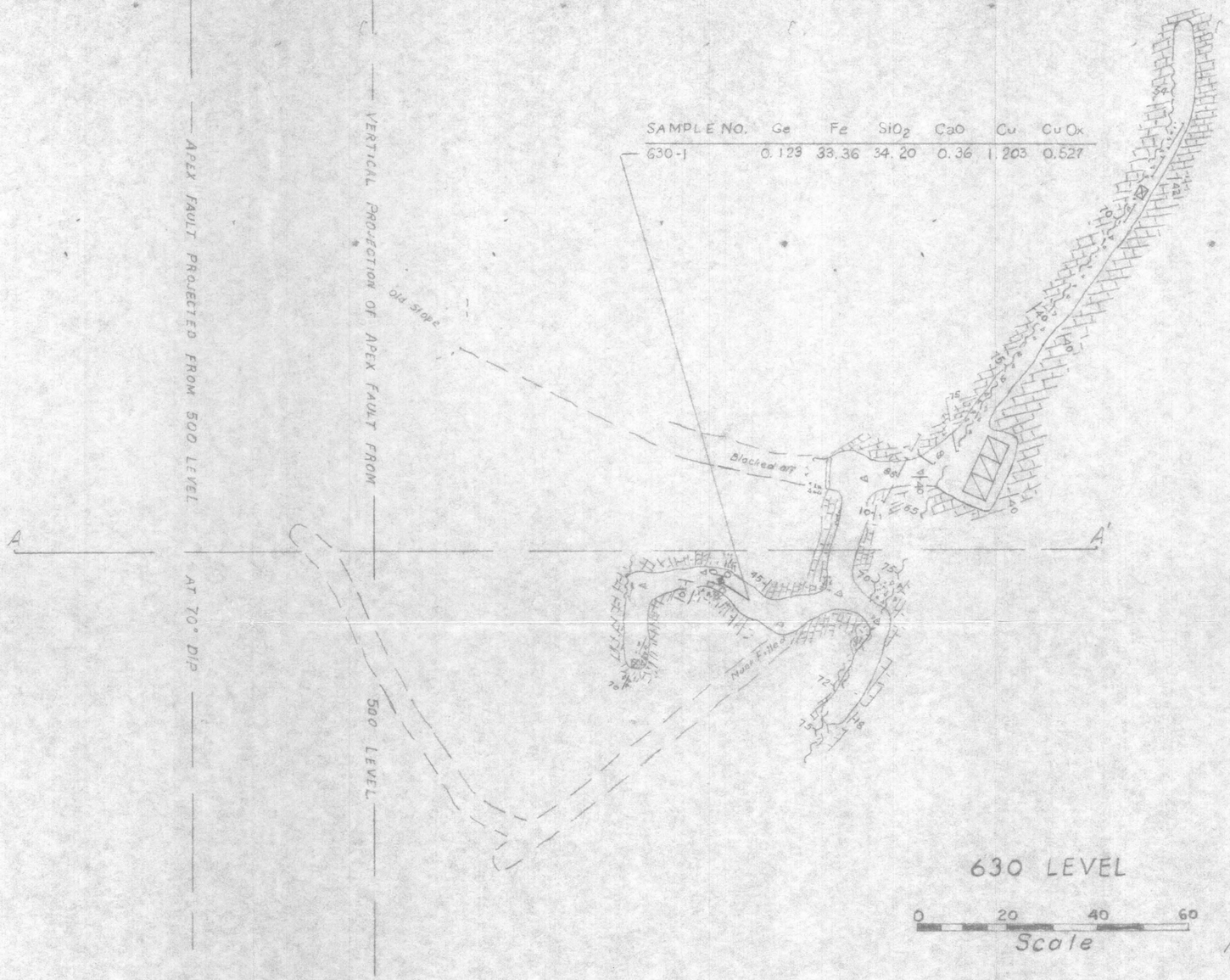
Supplement showing Sections

500 Level

DRAWING NUMBER

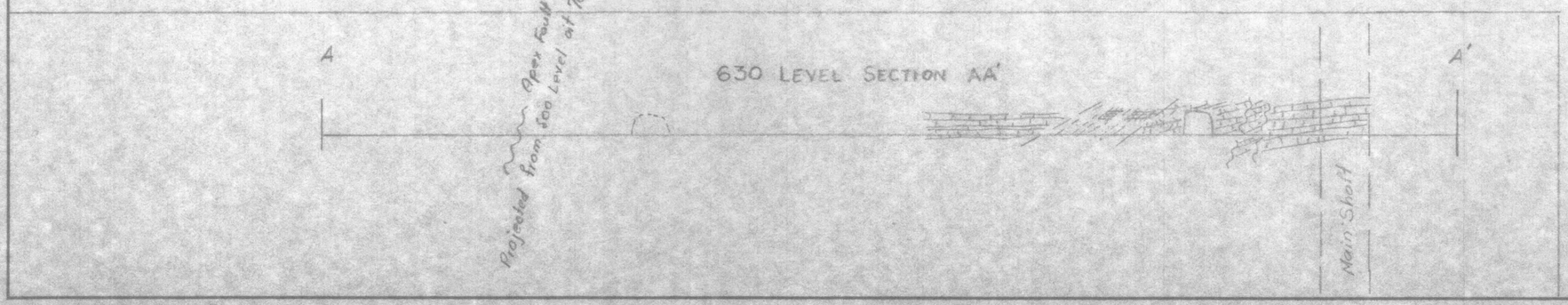
18X24 PRINTED ON NO. 1000H CLEARPRINT

SAMPLE NO.	Ge	Fe	SiO_2	CaO	Cu	Cu Ox
630-1	0.123	33.36	34.20	0.36	1.203	0.527



630 LEVEL

0 20 40 60
Scale



APEX MINE UTAH

SCALE:	APPROVED BY:	DRAWN BY
DATE:		REVISED

630 LEVEL

May - June 1962

DRAWING NUMBER

10X24 PRINTED ON NO. 1000H CLEARPRINT

SAMPLE NO.	Ge	Fe	SiO_2	CaO	Cu	Cu Ox
750-1	0.088	14.27	29.80	9.62	2.201	1.644

N

B'

B

Stoped

Old Stope?

Muck

Waste

Filled with large L.S. Blocks

APEX FAULT PROJECTED FROM 500 LEVEL AT 70° DIP

750 LEVEL

Scale 0 20 40 60

750 LEVEL SECTION BB'

B

B'

Apex Fault

Old Stope

Badly Broken

North Shaft

APEX MINE Utah

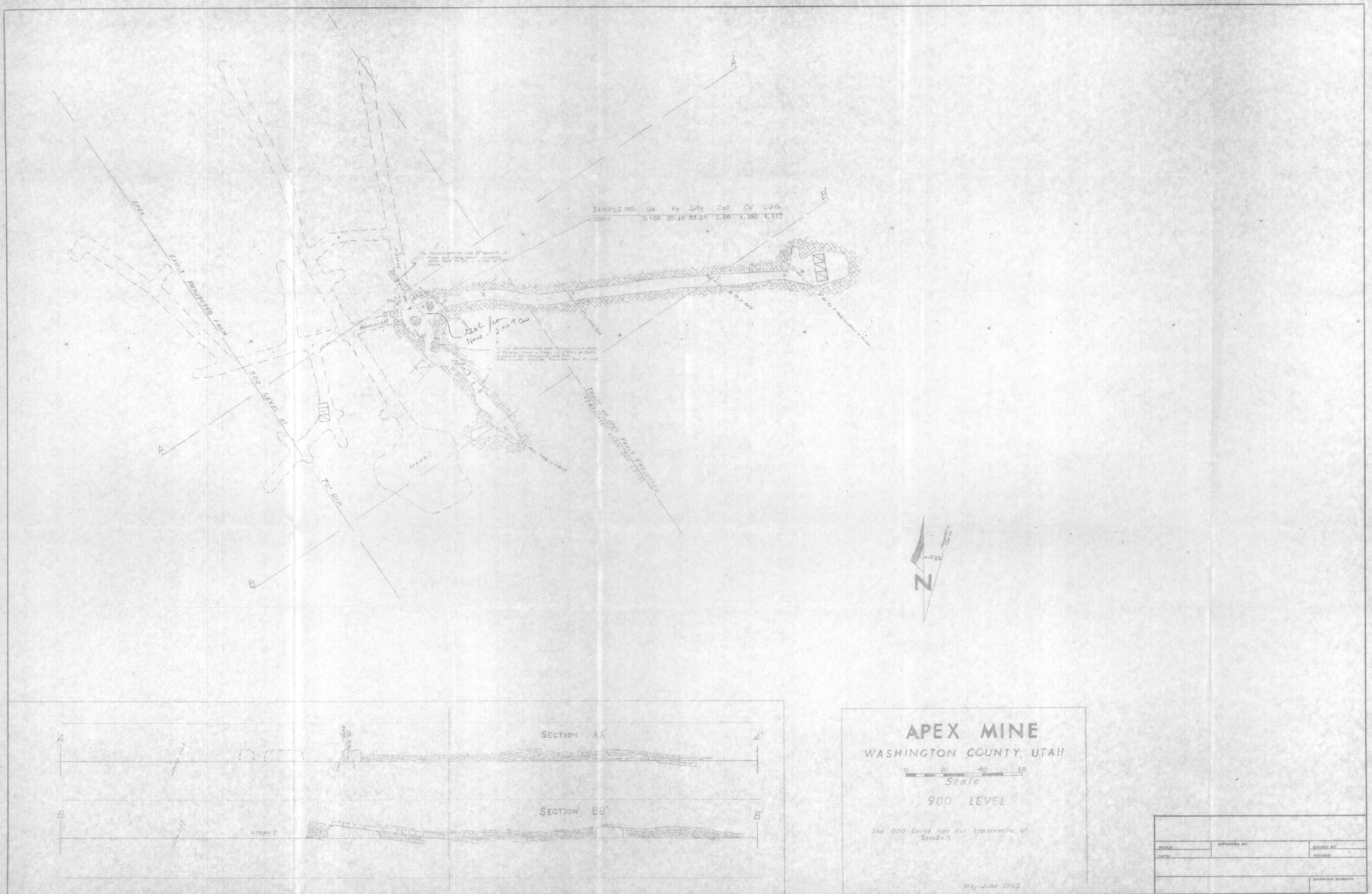
SCALE:	APPROVED BY:	DRAWN BY
DATE:		REVISED

750 LEVEL

May - June 1963

DRAWING NUMBER

18X24 PRINTED ON NO. 1000H CLEARPRINT



SAMPLE NO. Ge Fe SiO2 CaO Cu CuO2
900-1 0.100 20.10 55.20 2.00 1.280 1.122
APEX FAULT PROJECTED FROM 500 LEVEL AT 70° DIP
TRACE OF APEX FAULT PROJECTED VERTICALLY FROM 900 LEVEL
Stope?
Gob from Here - 2.00 + Cu
A
A'
B
B'
N
SECTION AA'
SECTION BB'
Stope?
APEX MINE
WASHINGTON COUNTY, UTAH
0 20 40 60
Scale
900 LEVEL
See 500 Level Map for Explanation of Symbols
May-June 1962
SCALE:
DATE:
APPROVED BY:
DRAWN BY
REVISED
DRAWING NUMBER

COMPOSITE LEVEL MAP
APEX MINE
WASHINGTON COUNTY UTAH
0 30 60 90
Upper Level Workings
500 Level "
631 Level "
766 Level "
900 Level "
1100 Level "
1330 Level "
1400 Level "
Traced from Map by W. H. Henderson, EM, 4/26/48
June 1962 KM
BILL OF MATERIAL
ITEM
NO. REQD.
DESCRIPTION
EVENING STAR
S 26°41' W 323.7'
S 3°39' E
604 Ft
N 41°15' W
1357.0 Ft
971.1 Ft
SENTINEL
N 26° 41' E
LIMESTONE
500 LEVEL
MORNING STAR
HIDDEN TREASURE
N 2° 47' W
750' Ft
Magnetic North
15½°
N
Narrow Stope above Level
36 ft High
3 Comp't Raise
18 Sets High
"A" Level to shaft
"B" Level from Shaft
Stope
975 Stope (old 775)
Min. Mon No. 1
North Winze
Inclined Shaft
900 LEVEL
766 LEVEL
1100 LEVEL
1400 LEVEL
631 LEVEL
Roys Winze
1330 Stope
1330 LEVEL
Slope
766 LEVEL
Stope on 975
South Winze
1260 LEVEL
1330 LEVEL
1400 LEVEL
631 LEVEL
500 LEVEL
900 LEVEL
1060 LEVEL
1100 LEVEL
1400 LEVEL
593.6 Ft.
N 3° 44' W
Stope 20' above Level
1400 LEVEL
1330 LEVEL
Upper Tunnel
S 84° 35' E
572.3 Ft.
500 LEVEL ADIT
APEX
4
2
S 4° 50' E
735.4 Ft

[redacted]

1100 LEVEL

SAMPLE NO.	Ge	Fe	SiO_2	CaO	Cu	Cu Ox
1100-2	0.081	22.50	45.50	1.20	1.638	1.190
1100-1	0.108	30.75	38.00	1.24	0.491	0.151
1100-3	0.051	2.60	36.00	19.60	1.356	1.207

APEX FAULT PLANE PROJECTED FROM 500 LEVEL AT 70° DIP

TRACE OF APEX FAULT PROJECTED VERTICALLY FROM 500 LEVEL

MAIN SHAFT

Section AA'

Section BB'

Section CC'

APEX MINE

WASHINGTON COUNTY, UTAH

0 20 40 60

Scale

1100 LEVEL

See 500 Level Map for Explanation of Symbols

May June 1962

SCALE:

DATE:

APPROVED BY:

DRAWN BY:

REVISED

DRAWING NUMBER