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03/20/90

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES FILE DATA

PRIMARY NAME: BLUEBIRD

ALTERNATE NAMES:

GRAHAM COUNTY MILS NUMBER: 64

LOCATION: TOWNSHIP 5 S RANGE 21 E SECTION 5 QUARTER C
LATITUDE: N 33DEG 03MIN 22SEC LONGITUDE: W 110DEG 19MIN 05SEC
TOPO MAP NAME: BYLAS - 15 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:

COBALT
LEAD SULFIDE
COPPER SULFIDE
NICKEL
GOLD
ARSENIC

BIBLIOGRAPHY:

ADMMR BLUEBIRD FILE
ADMMR U FILE
USGS CRIB DATA
USAEC PRELIM RECONN RPT 172-481, P 383; 1954
ADMMR BLUEBIRD COBALT PROSPECT COLVO FILE
AZBM BULL. 180, 1975, P. 117
USBM RI 8103, P. 28
CONF. LOC.-U FILE--SEC. 5-T5S-R21E

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES

INFORMATION FROM MINE CARDS IN MUSEUM

ARIZONA

MM-K106 Cobaltite

Graham Co.
near Mt. Turnbull
Blue Bird Mine MILS #64

-110-24KA Bluebird (file)

USBM "U" File

USGS CRIB DATA

USAEC Preliminary Reconnaissance Report 172-481

ABM Bul. 180 p. 117

USBM IC 8103, p. 28

MILS Sheet sequence number 004009069

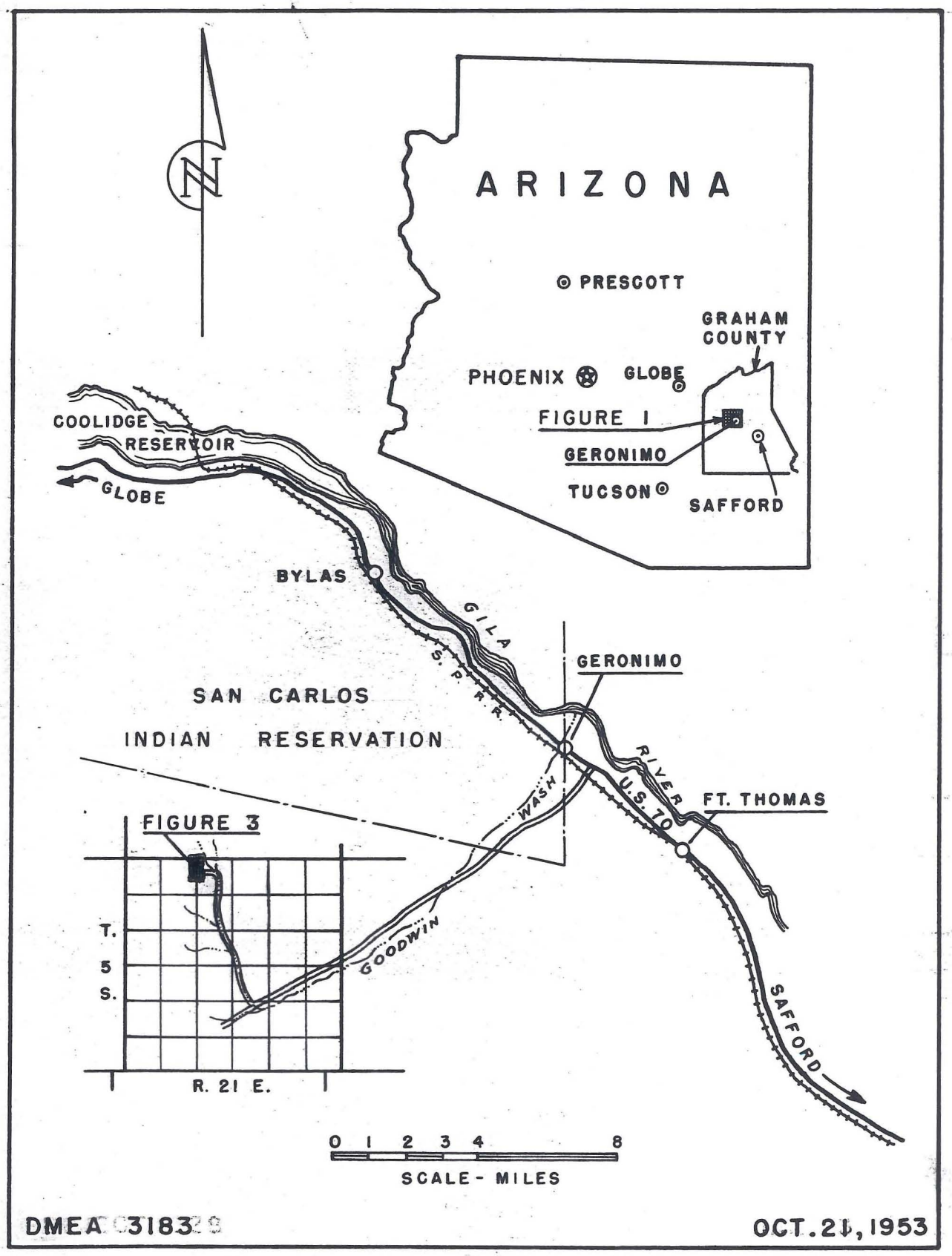


FIGURE 1. - LOCATION MAP, BLUEBIRD COBALT MINE
GRAHAM COUNTY, ARIZONA

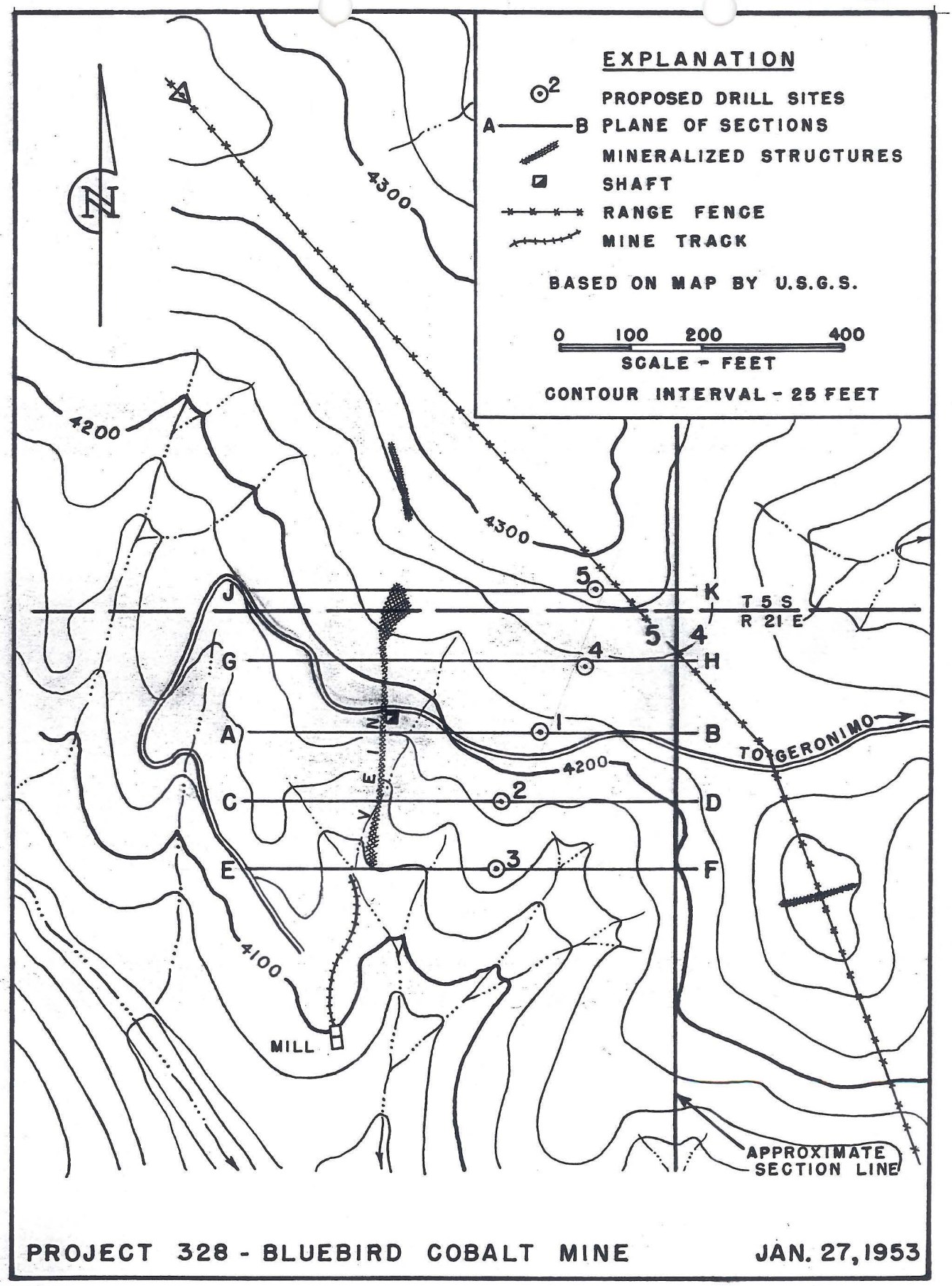


FIGURE 2. - TOPOGRAPHIC MAP AND DRILL SITES

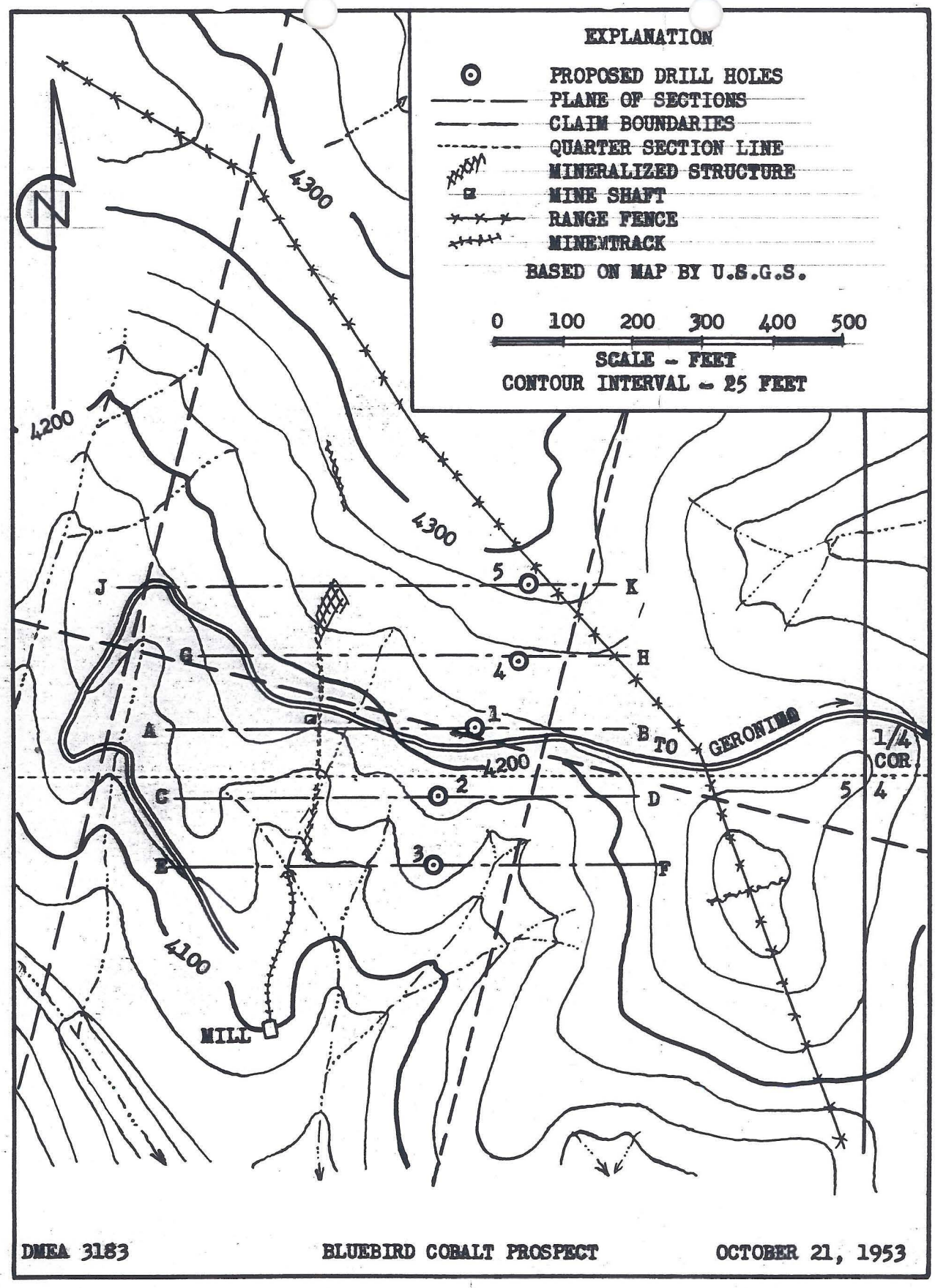
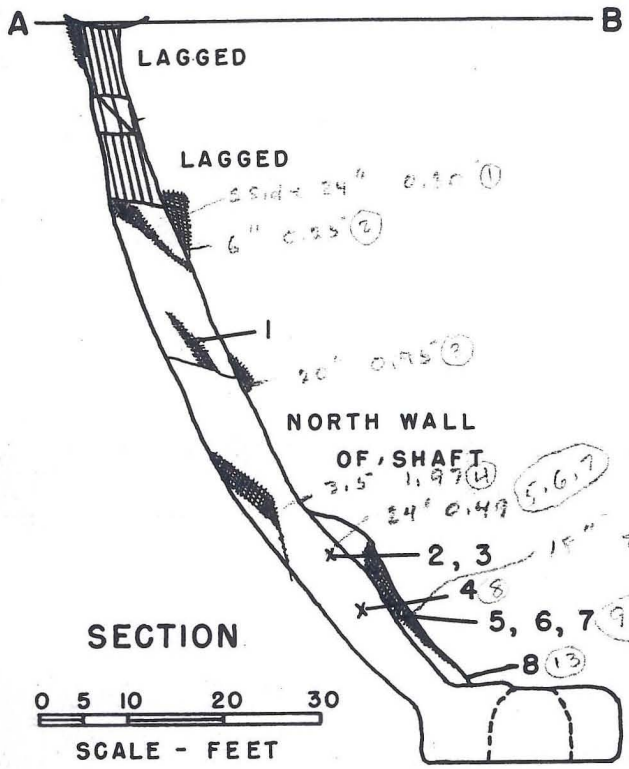
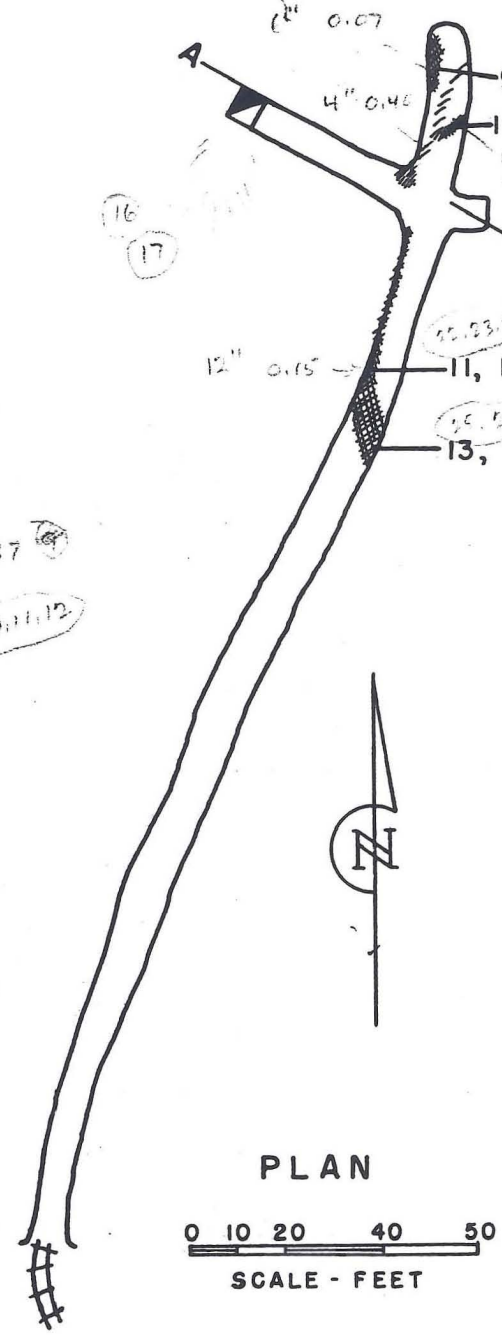


FIGURE 2. TOPOGRAPHIC MAP





FROM MAP BY U. S. G. S.

SAMPLES

* BY BUREAU OF MINES
OTHERS BY GEOLOGICAL SURVEY

SAMPLE	LENGTH	Cu %	Co %	WO_3
~~1~~	~~3~~ in.	0.02	10.67	
~~2~~	~~36 in.~~	0.08	0.01	
~~*3~~	~~24 in.~~	0.25	0.28	-0.01
~~4~~	~~3 in~~	~~0.39~~	~~0.02~~	
~~5~~	~~60 in.~~	~~Tr.~~	~~0.01~~	
~~6~~	~~36 in.~~	~~0.10~~	~~2.02~~	
~~7~~	~~11 in.~~	~~0.18~~	~~1.67~~	
~~8~~	~~10 in~~	~~Tr.~~	~~1.01~~	
~~9~~		0.42	0.04	
10	24 in.	0.05	0.02	
11	20 in.	0.56	0.10	
*12	18 in.	0.70	0.15	2.08
13	25 in.	0.64	0.03	
*14	20 in.	1.85	0.08	0.13
*ORE BIN GRAB		0.09	0.22	-0.01
*CONCENTRATES(?)		0.38	7.00	-0.01

PROJECT 328 - BLUEBIRD COBALT MINE JAN. 26, 1953

FIGURE 3. - MINE WORKINGS AND SAMPLES

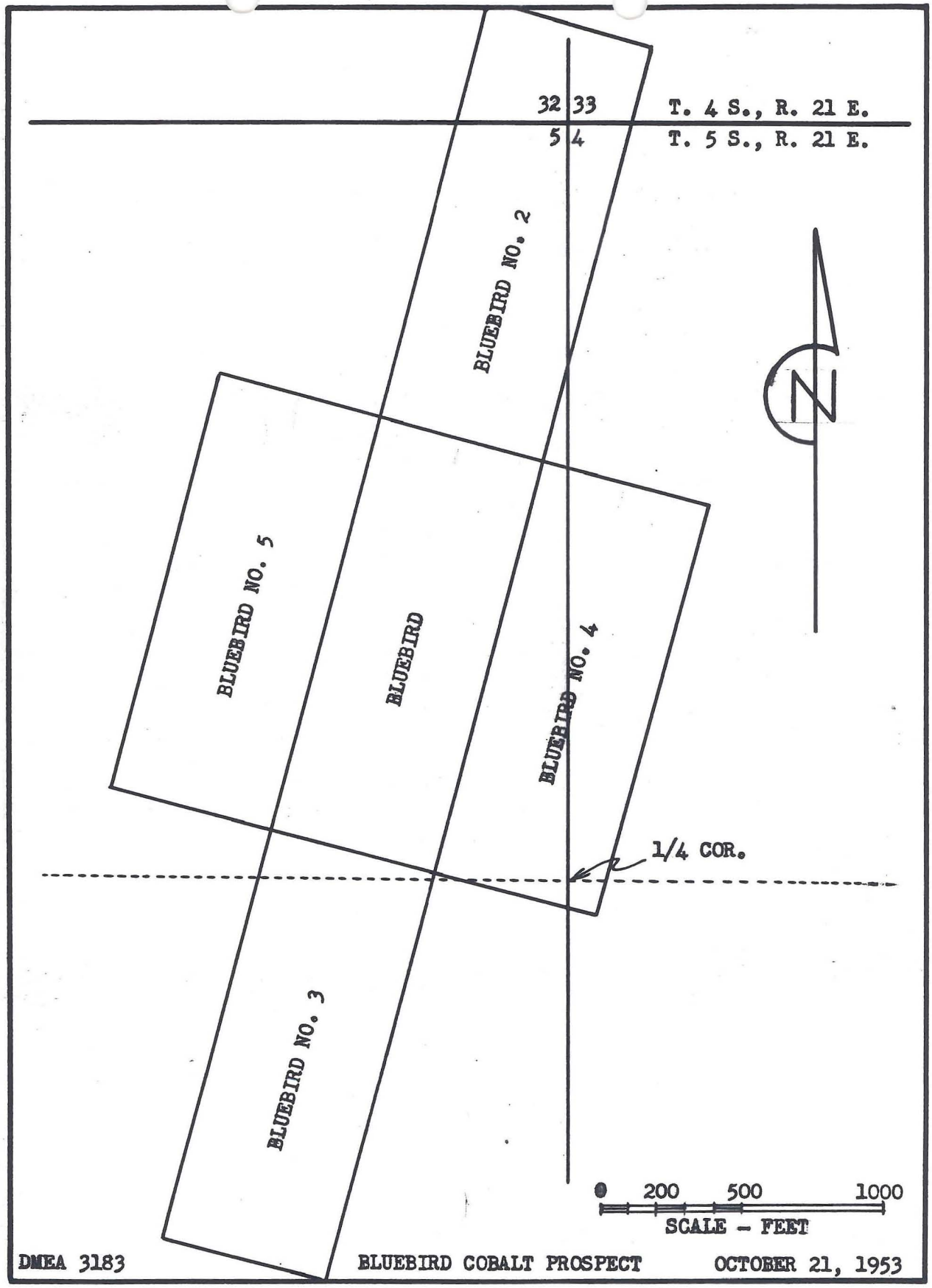
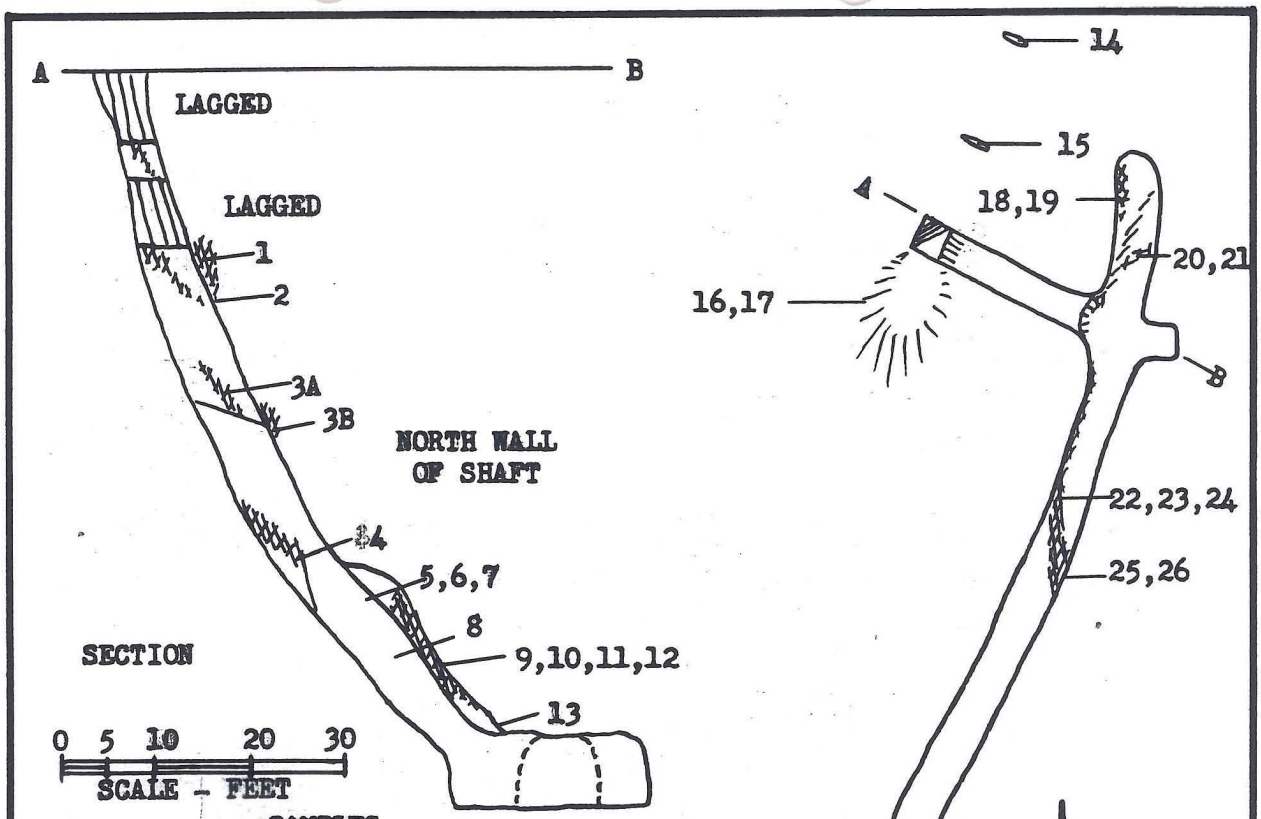


FIGURE 3 - CLAIM MAP



SAMPLES

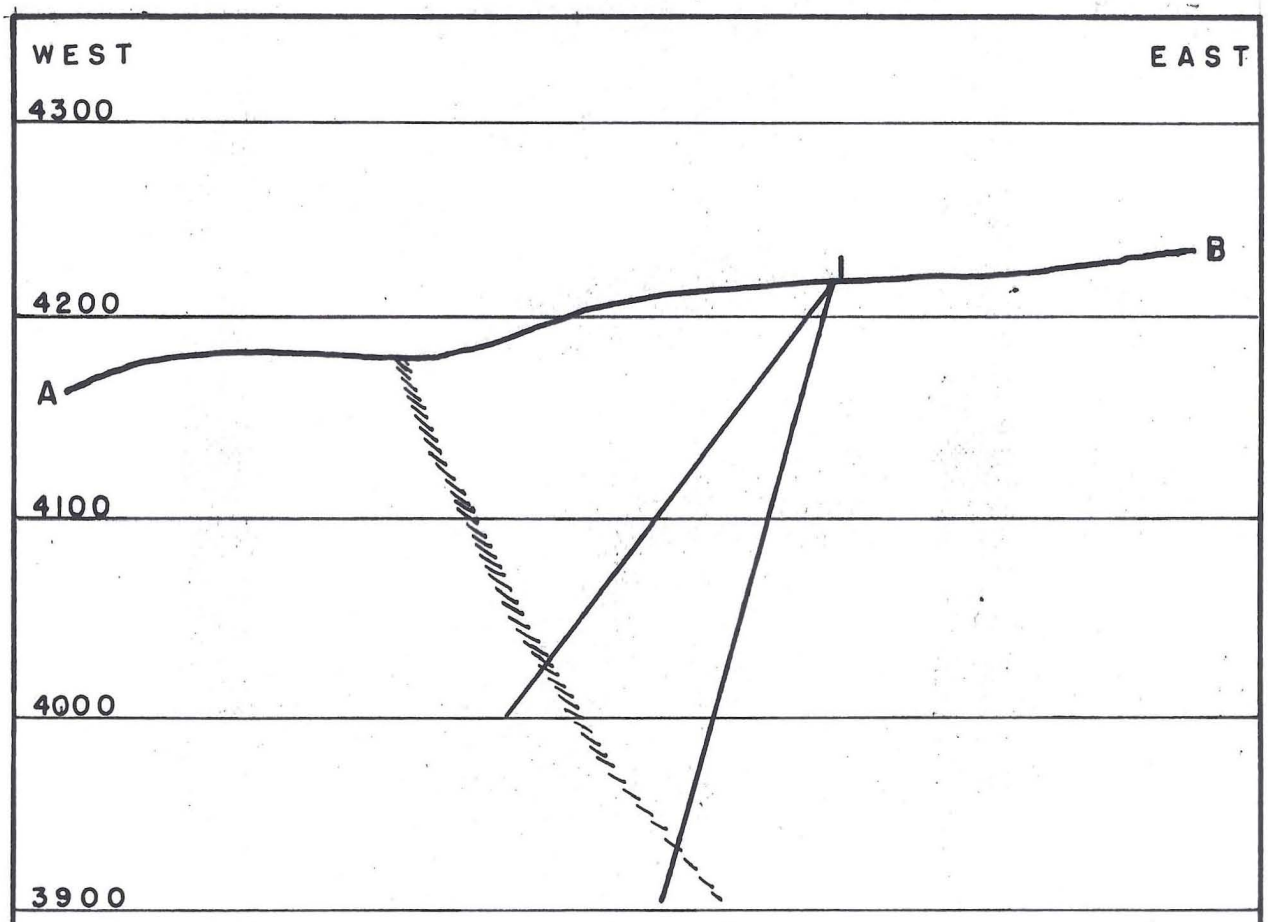
NO	LENGTH	Cu%	Co%	WO_3%	SAMPLER
1	24 in		0.30		DMS
2	6 in		0.25		DMS
3A	3 in	0.02	10.67		USGS
3B	20 in		0.95		DMS
4	41 in		1.97		DMS
5	24 in		0.49		DMS
6	36 in	0.08	0.01		USGS
7	24 in	0.25	0.28	-0.01	USBM
8	3 in	0.39	0.02		USGS
9	18 in		7.37		DMS
10	60 im	Tr	0.01		USGS
11	36 in	0.10	2.02		USGS
12	11 in	0.18	1.67		USGS
13	10 im	Tr	0.01		USGS
14	12 in		0.06		DMS
15	12 in		0.71		DMS
16	DUMP		0.50		DMS
17	DUMP HG		2.25		DMS
18	6 in		0.07		DMS
19	?	0.42	0.42		USGS
20	24 in	0.05	0.02		USGS
21	12 in		0.55		DMS
22	12 in		0.15		DMS
23	20 in	0.56	0.10		USGS
24	18 in	0.70	0.15	2.08	USBM
25	25 in	0.64	0.03		USGS
26	20 in	1.85	0.08	0.13	USBM

FROM MAP BY U.S.G.S.

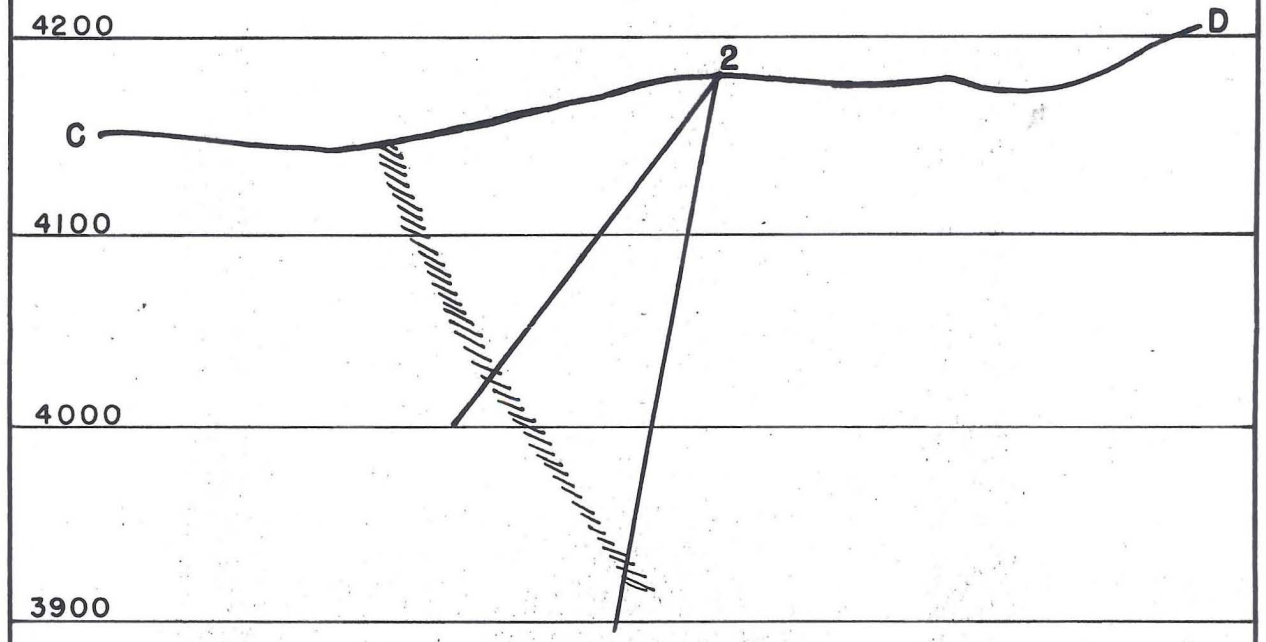
USGS - U. S. GEOLOGICAL SURVEY
USBM - U. S. BUREAU OF MINES
DMS - D. M. STRANAHAN

BLUEBIRD COBALT PROSPECT
DMEA 3183 OCTOBER 21, 1953

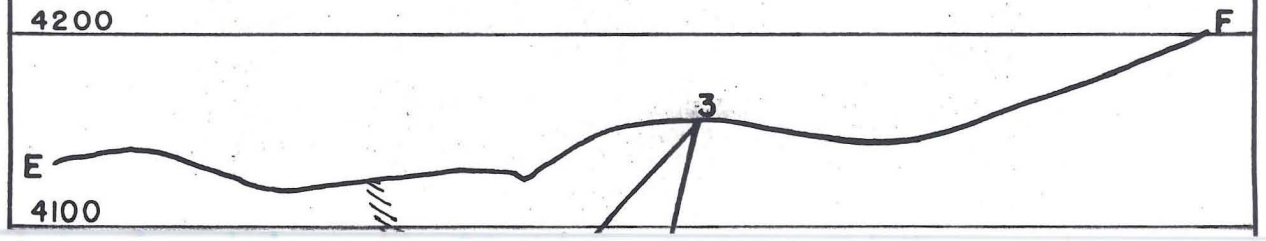
FIGURE 4. - MINE WORKINGS AND SAMPLES

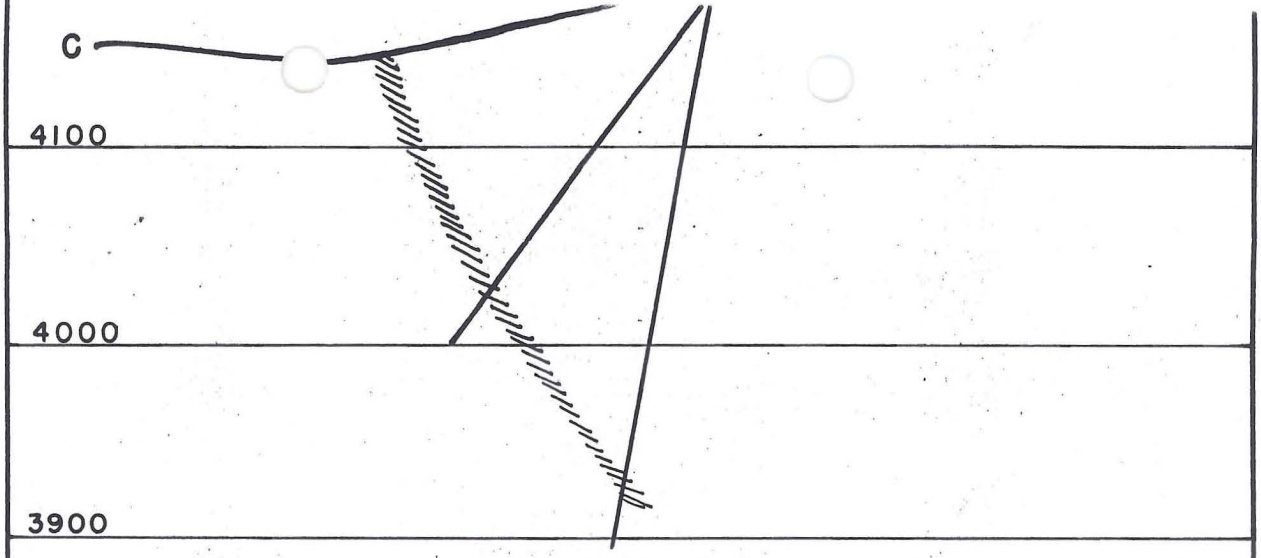


SECTION A—B



SECTION C—D





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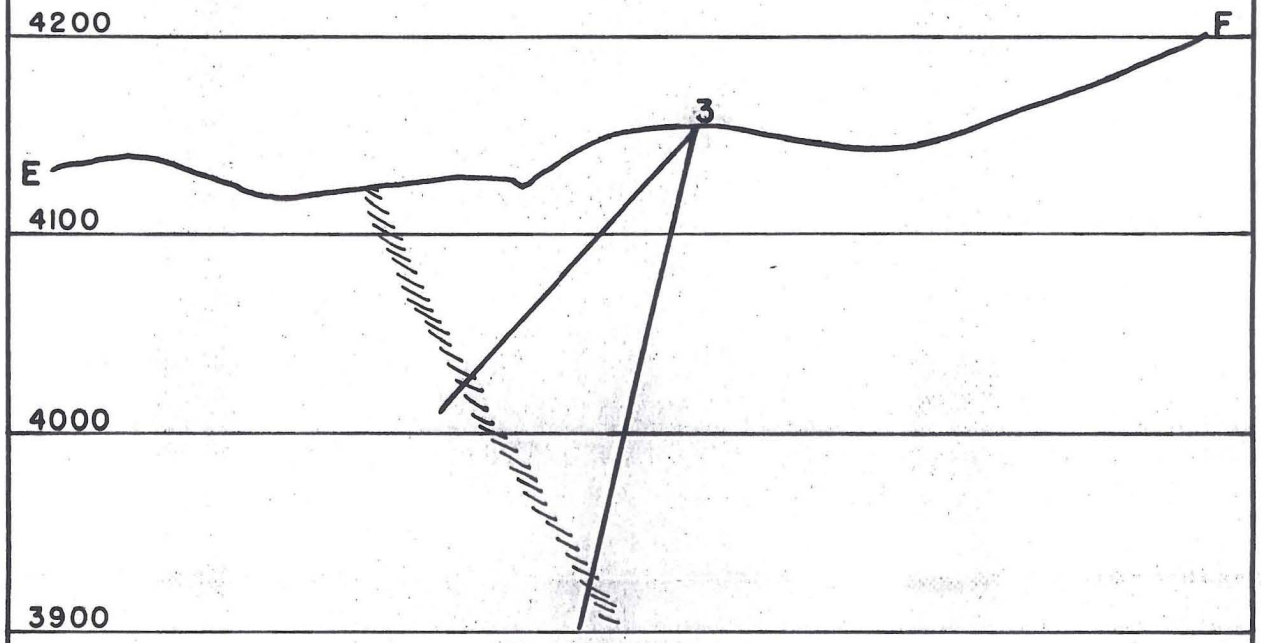
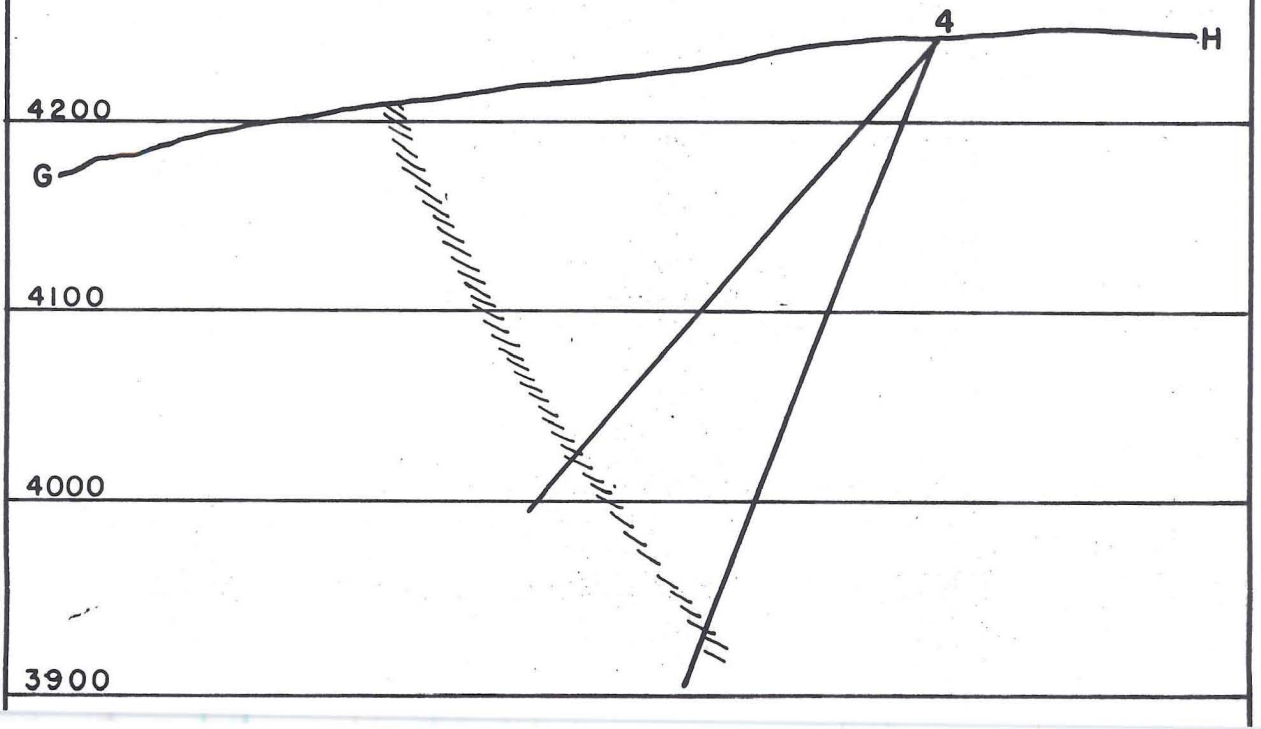


SECTION E—F



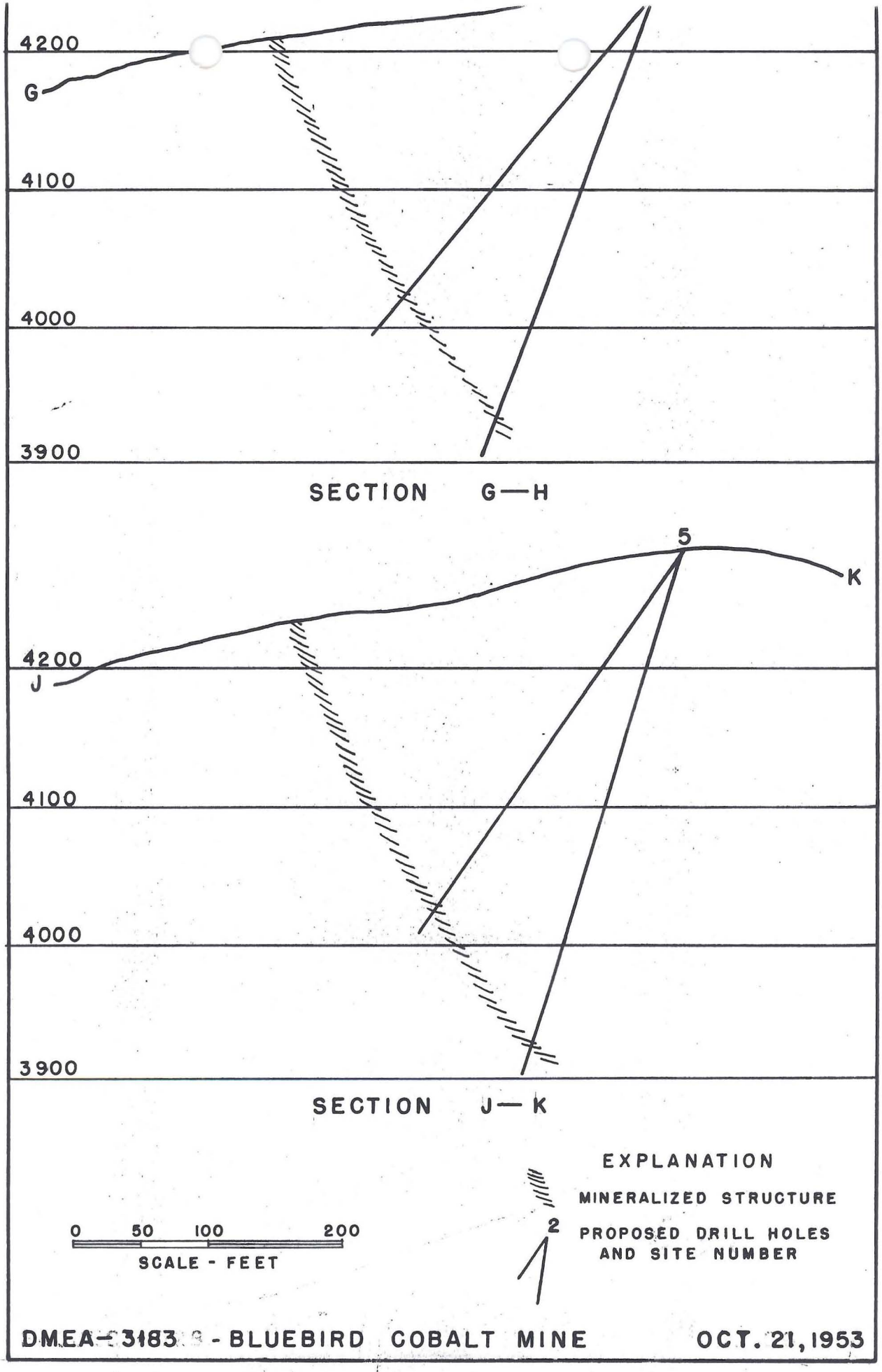


FIGURE 5 - SECTIONS OF PROPOSED HOLES

BLUEBIRD Graham County

KAP WR 2/27/81: The Blue Bird (file) Mine in Graham County, Stanley Butte District, should be visited to ascertain its cobalt potential.

MB-5 BLUEBIRD, Walter Lombardi, Tombstone, Arizona

Your name and address has been furnished to -

Albert Poston, 3107 Brighton Ave., Los Angeles, Cal.,

who has made inquiry for the same with reference to mining property listed with the Department of Mineral Resources.

DEPARTMENT OF MINERAL RESOURCES
J. S. Coupal, Director

MB-5 BLUEBIRD, Walter Lombardi, Tombstone, Arizona

Your name and address has been furnished to -

Edward Smith, Box 1923, Phoenix, Arizona

who has made inquiry for the same with reference to mining property listed with the Department of Mineral Resources.

DEPARTMENT OF MINERAL RESOURCES
J. S. Coupal, Director

Cob-1

MINERAL SPECIM[illegible] FOR DEPARTMENT OF LIBRARY AND [illegible]HIVES K106

(Do not write in this space)

Ore _____

Cabinet _____

No. _____

(Wrap each specimen separately, or place it in a substantial bag, by itself, with a number attached, identical with the number on this card.)

Specimen No. 2, collected by J.S. COUPAL 1/15-40
Field Engineer

Name of ore COBALTITE CoAsS.

Minerals contained COBALTITE

Gangue APACHE SERIES - LIMESTONE - QUARTZITE

Depth at which taken 64 ft. IN SHAFT.

Approximate mineral content (in terms of average per ton) 8% COBALT.

Name of mine or claim BLUE BIRD MINE

Group —

District NEAR MT. TURNBULL - GRAHAM COUNTY.

Location (distance and direction by highway from what town SEC. 4 & 5 - T5S R19E S.E. FLANK MT. TURNBULL - 12 MILES WEST OF GERONIM

Owner of property W.L. LOMBARDI - TOMBSTONE
F.D. MATHEW - BENSON

Operator W.L. LOMBARDI

Mine active or inactive DEVELOPING.

If inactive, when operated

Specimen presented by W.L. LOMBARDI

Date 2/12/40

Notes (Any general information regarding the history of the property.) THE FACT THAT THE MINERAL IN THIS ROCK WAS COBALTITE WAS FIRST NOTED BY JONATHAN GORDON AT TOMBSTONE -

If more space is desired for notes, use other side.

This specimen is now in the ADMR Museum - see K number 5.1b 12oz 20.0 X 15.0 X 9.0 cm

Copy to [illegible]

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Date June 23, 1939.

Mine Bluebird Engineer Newton Wolcott

District Stanley (?) Location 18 Miles south of Geronimo on N.E. slope of Santa Teresa Mts.

Former name

Owners { Walter Lombardi, Fred Mayhugh Address Tombstone, Arizona. Benson, "

Operator Ralph L. Grossthwaite and others Address Tucson or El Paso.

President Gen. Mgr.

Mine Supt. Jonathan Gordon Mill Supt.

Principal Metals Cobalt, nickel, arsenic, gold Men Employed 1 Watchman on job.

Production Rate Mill: Type & Cap.

Power: Amt. & Type Single drum hoist and compressor, both powered by automobile engines.

Operations: Present Not operating at present.

Operations Planned

Reported that operators plan to build mill on property.

Number Claims, Title, etc. 41 Claims in group. Not known how many patented or unpatented.

Description: Topog. & Geog.

Property situated on the foothill slopes of the Santa Teresa mountains at an elevation of approximately 4300 feet. Surrounding hills are sparsely wooded with scrub oak and are cut by deep canyons with steeply sloping sides. Drainage is to the north and east toward the Gila River which is approximately 20 miles distant.

Mine Workings: Amt. & Condition

Inclined shaft 90 feet in depth, connected at the bottom with a tunnel approximately 230 feet in length.
Also various shallow open cuts and prospect holes.

(over)

Geology & Mineralization — Ore occurs in a series of east-west veins which seem to be roughly parallel with and in close proximity to a contact between andesite and diorite. Mineralization, judging from material observed on the dumps, consists of sulphide minerals, quartz, and various alteration products. The ore minerals appear to be a smaltite-chloanthite combination and arsenopyrite. Oxidation in the vein where the main work is done has been very slight.

Ore: Positive & Probable, Ore Dumps, Tailings

No tonnage estimate possible; but the watchman who has worked in the mine since its discovery states that the vein varies in width from 2 to 4 feet, and that it is still going down at the bottom of the shaft. Approximately 400 tons of material of unknown grade was observed in dumps around shaft and mouth of the tunnel.

Mine, Mill Equipment & Flow Sheet

In addition to the mechanical equipment, there are six frame houses and a change room on the property.

Road Conditions, Route — Cross railroad at first crossing east of Geronimo and follow main road south for a distance of approximately 12 miles. Then take road up sand wash to west for another 5 miles. This road leads to mine. Road is slow, and a heavy pull for the last five miles. Best to inquire at Geronimo before going out, as in wet weather there are portions which would be very difficult to travel.

Water Supply

A shallow well in the canyon below camp now furnishes ample water for domestic purposes, and it is likely that sufficient water for milling can be developed without too much difficulty.

Brief History — This property was located by present owners somewhat more than two years ago. Development work has been limited to that shown above, and no ore has been shipped. Other veins which show on the surface are undeveloped as yet.

Special Problems, Reports Filed — Analysis of a hand specimen taken from dump at collar of shaft gave the following results:

Co	-- 4.86 %	As (and Sb)	— 35.8 %
Ni	-- Tr	S	— 14.9
Fe	—24.5	Al_2O_3	0.6
		Insol.	— 8.6

Remarks

Property was shut down at time of visit, and watchman had orders to permit no one to enter underground workings. These orders were strictly observed; so all information given above is based upon surface observations and upon statements made by watchman.

If property for sale: Price, terms and address to negotiate.

This information probably contained in report from Miles Carpenter.

Signed

Use additional sheets if necessary. Separate sheets on each problem.

(over)

Copy to Wilkin

MB-5

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

See: USBM-I.C. 8103, p-28 re: Cobalt

Date June 24, 1939.

Mine Bluebird

Engineer Newton Wolcott

District Mount Turnbull District, Graham County

Location 18 Miles South of Geronimo on N.E. slope of the Santa Teresa Mts.

Former name

Owner Walter Lombardi
Fred Mayhugh

Address Tombstone, Arizona.
Benson, "

Operator Ralph L. Crosthwaite

Address Tucson or El Paso. Mail address not known.

President

Gen. Mgr.

Mine Supt. Jonathan Gordon

Mill Supt.

Principal Metals Cobalt, nickel, gold, arsenic

Men Employed Only Watchman on job at time of visit.

Production Rate

Mill: Type & Cap.

Power: Amt. & Type Single drum hoist and stationary compressor, both powered by automobile engines.

Operations: Present

Property not operating at time of visit, but watchman stated that work is supposed to be resumed after July 1st.

Operations Planned

Operators plan to instal mill.

Number Claims, Title, etc.

Forty-one claims in group. Not known whether patented in any part.

Description: Topog. & Geog.

Property located in upper foothills of Santa Teresa mountains at an elevation of approximately 4300 ft. Sparsely wooded and fairly steep hills.

Mine Workings: Amt. & Condition

Apart from assessment and location workings, the main workings consist of an incline shaft 90 feet in depth which connects at the bottom with a tunnel approximately 230 feet in length. This is all new work, and therefore accessible.

Signed Newton Wolcott

(over)

Geology & Mineralization

The ore as observed in hand specimens occurs as what appears to be a smaltite-chloanthite combination, associated with pyrite. Gold values up to 12 dollars per ton are reported. Mineralization has taken place along a series of east-west veins which are close to and roughly parallel with a contact betweenaa fine grained andesite and grano-diorite. The veins are in the andesite.

Ore: Positive & Probable, Ore Dumps, Tailings

Since most of the development work has been done on the vein, the dumps would in all probability class as good mill ore. There are probably three or four hundred tons of this material on the surface.

Mine, Mill Equipment & Flow Sheet

Road Conditions, Route Cross railroad at first crossing east of Geronimo and take main road south. Keep to main road for a distance of 13 miles, then take turn to west up sand wash. Road would probably be difficult in places during the rainy season, and it would be wise to inquire about conditions at Geronimo before going up.

Water Supply There is a good domestic supply developed at shallow depth in the canyon at the mine, and it appears likely that sufficient can be developed for milling purposes also.

Brief History This property was discovered about two years ago, and the owners proceeded slowly with the development. All ore extracted to date has been stock-piled. The cobalt-nickel values were at first unsuspected. Assay reports are entirely a matter of heresay, but Carpenter may be able to get authentic information on this point from the owners. Operation of the property was taken over on some sort of an arrangement by Mr. Ralph L. Crosthwaite about the first of this year. The present operators have built a camp consisting of about six frame houses and a change-room.

Special Problems, Reports Filed

Remarks At the time of my visit to the property, a watchman had been left in charge with strict orders to let nobody enter the mine workings, and these orders were observed implicitly. Personal observations were therefore confined to the surface, and ~~therefore~~ were not entirely satisfactory. Ore on the dump indicated more than just stringer width, and it is understood that the vein varies in width from two feet up.

If property for sale: Price, terms and address to negotiate.

The property is apparently tied up at present, but Carpenter's report will doubtless contain information on this point.

Signed Newton Wolcott

Use additional sheets if necessary. Separate sheets on each problem.

(over)