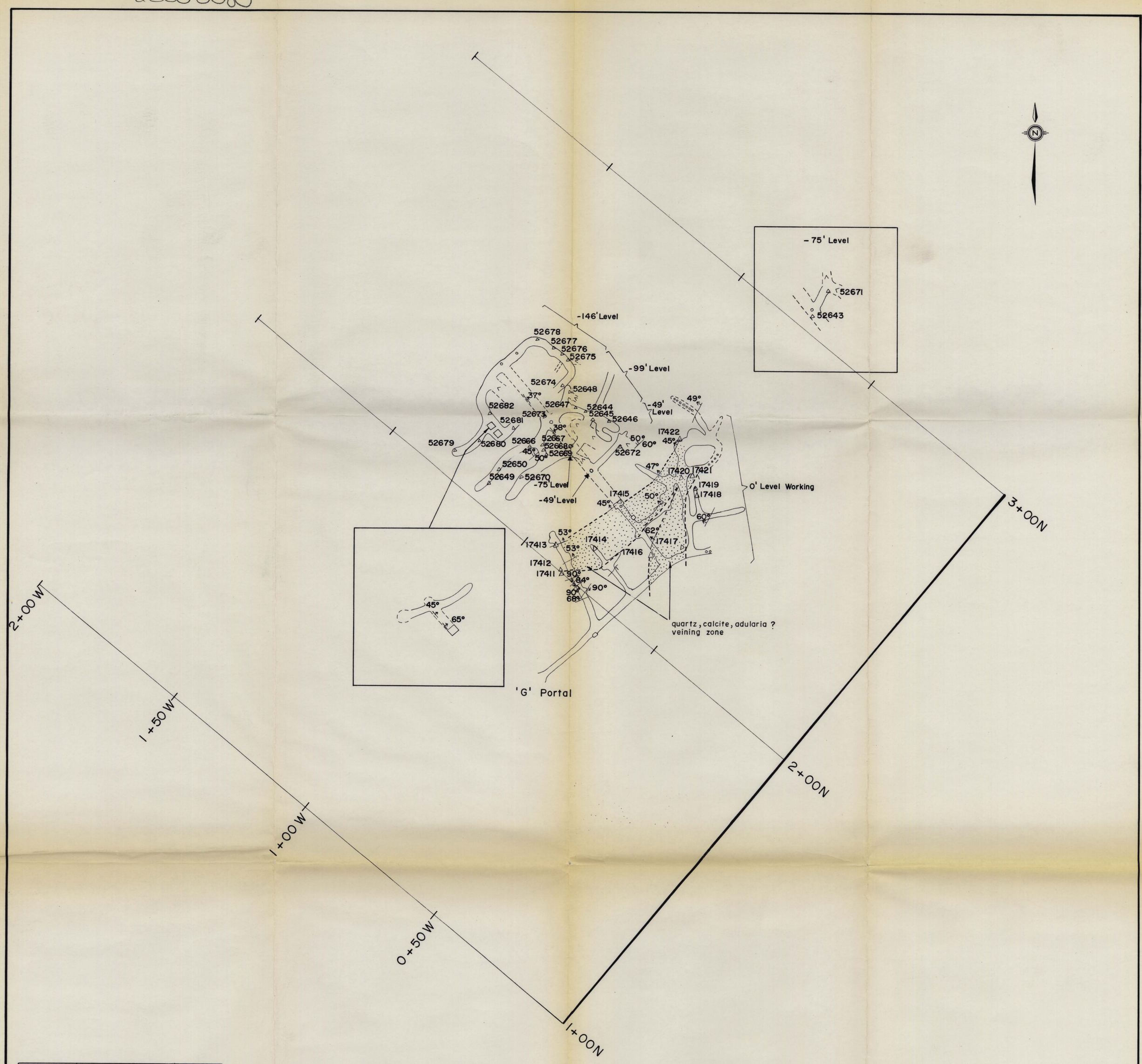
2000 0080



Sample No.	Width (M)	Au PPb	Ag PPm
17411	2·0 m	120	0·44 Oz/t
17412	1·0 m	450	8·4
17413	1·4 m	5	1·0
17414	1·3 m	220	5·6
17415	1·4 m	0·022 Oz/t	1·58 Oz/t
17416	3·0 m	0·010 Oz/t	5·0
17417		5	0·8
17418	0·7 m	5	0·4
17419	1·2 m	5	0·6
17420	1·1 m	105	9·4
17421	1·0 m	440	0·64 Oz/t
17422	1·2 m	35	6·6
52643	2·0 m	0·036 Oz/t	16·8
52644	1·0 m	100	3·2
52645	1·0 m	40	5·2
52646	1·2 m	10	2·8
52647	3·0 m	25	3·0
52648	0·6 m	30	1·1
52649	2·0 m	145	9·8
52650	1·8 m	280	23
52666	0·6 m	0·018 Oz/t	9·3
52667	2·0 m	315	6·8
52668	0·1 m	495	4·6
52669	2·2 m	165	6·9
52670	1·2 m	440	3·3
52671	0·5 m	0·024 Oz/t	9·2
52672	0·5 m	430	13·8
52673	1·1 m	20	10·0
52674	1·4 m	30	5·4
52675	3·0 m	5	2·1
52676	4·0 m	40	5·3
52677	4·0 m	45	13·4
52678	2·0 m	15	1·4
52679		35	3·4
52680		75	7·5
52681		175	8·6
52682		115	7·7

0 50'

0 10 20m

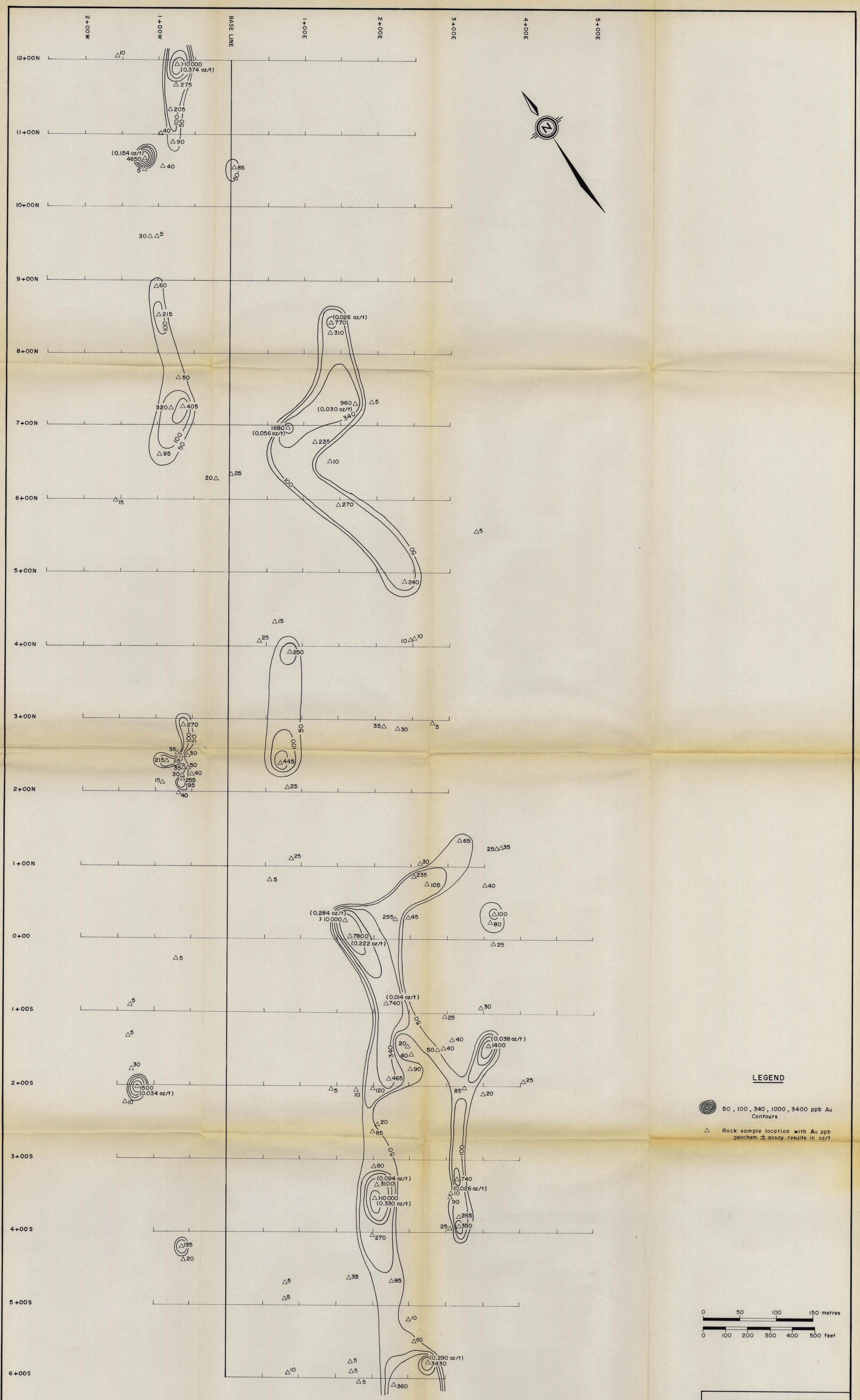
Scale: 1:600 (1" = 50')

TO ACCOMPANY A REPORT BY:
WILSON GEWARGIS, B.Sc., F.G.A.C.
GEWARGIS GEOLOGICAL CONSULTING INC.

SUN VALLEY GOLD MINES LTD.

BLACK MAMMOTH - MONTE CRISTO PROPERTY
GILBERT MINING DISTRICT
ESMERALDA COUNTY, NEVADA
UNDERGROUND WORKINGS (G PORTAL)

SCALE: 1:600	FIG: 20
DRAWN BY: D.G.	DATE: MARCH, 1987



SUN VALLEY GOLD MINES LTD.

BLACK MAMMOTH - MONTE CRISTO PROPERTY
GILBERT MINING DISTRICT
ESMERALDA COUNTY, NEVADA
GOLD (Au) ROCK GEOCHEMICAL MAP

SCALE: 1:2000	FIG: 21
DRAWN BY: D. G.	DATE: MARCH, 1987

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20000080

2+00W
1+00W
BASE LINE
1+00E
2+00E
3+00E
4+00E
5+00E
12+00N
11+00N
10+00N
9+00N
8+00N
7+00N
6+00N
5+00N
4+00N
3+00N
2+00N
1+00N
0+00
1+00S
2+00S
3+00S
4+00S
5+00S
6+00S
N
AREA # 1
AREA # 2
AREA # 3
AREA # 4
87-1
87-2
87-3
87-4
87-5
87-6
87-7
87-8
87-9
87-10
A
V
S
I
LEGEND
25,50,100 PPb Contours
87-1 Drill Hole
I : Intrusive
A : Andesite
V : Volcanics
S : Sediments
0 50 100 150 metres
0 100 200 300 400 500 feet
SUN VALLEY GOLD MINES LTD.
BLACK MAMMOTH - MONTE CRISTO PROPERTY
GILBERT MINING DISTRICT
ESMERALDA COUNTY, NEVADA
GEOCHEMICAL SURVEY - GOLD (Au)
(SOILS)
SCALE: 1:2000
FIG: 15
DRAWN BY: D. G.
DATE: MARCH, 1987
TO ACCOMPANY A REPORT BY:
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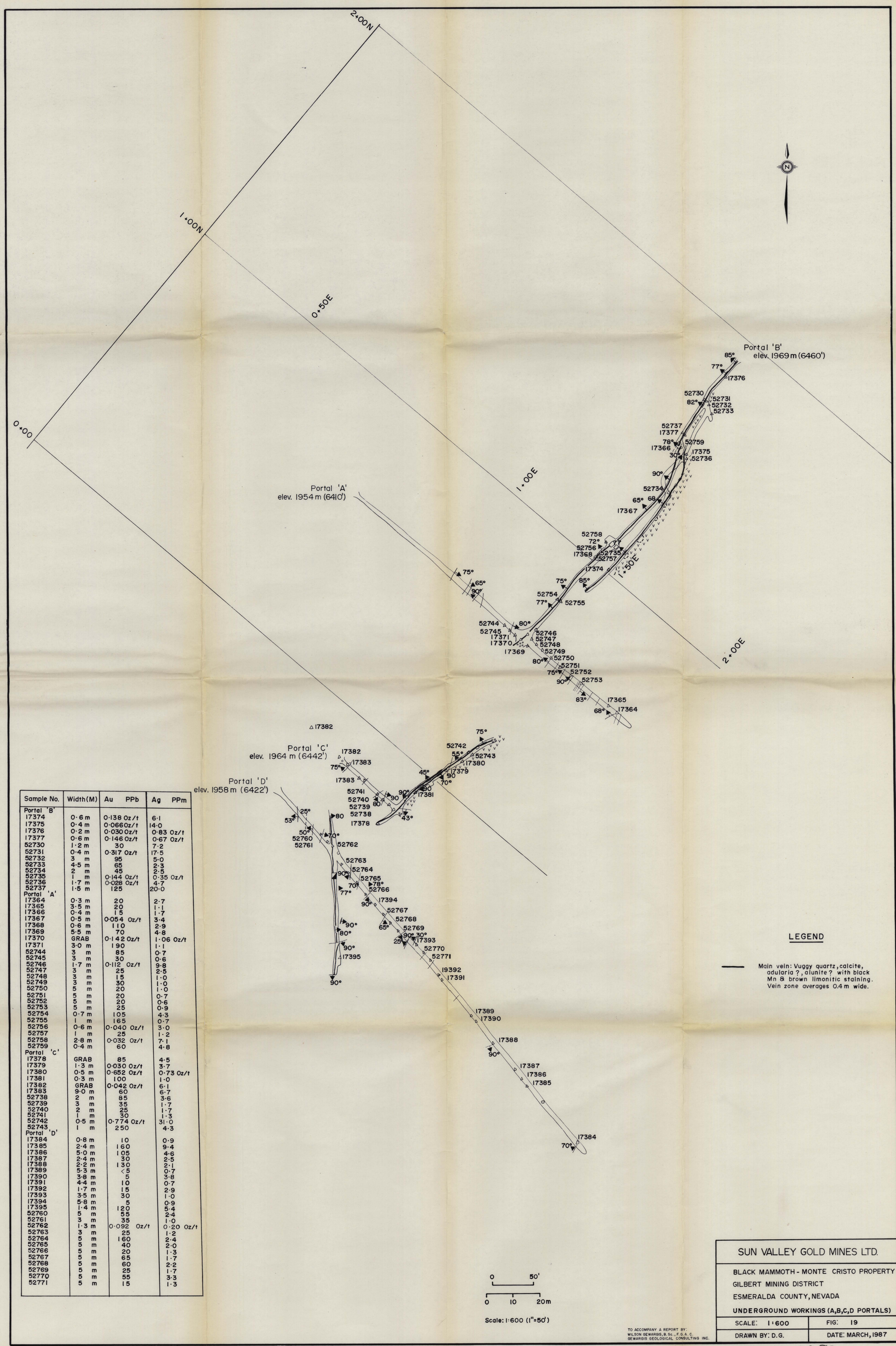
GEWARGIS GEOLOGICAL CONSULTING INC.

20000080



Sample No.	Width(M)	Au PPb	Ag PPm
Portal 'B'			
17374	0·6 m	0·138 Oz/t	6·1
17375	0·4 m	0·066 Oz/t	14·0
17376	0·2 m	0·030 Oz/t	0·83 Oz/t
17377	0·6 m	0·146 Oz/t	0·67 Oz/t
52730	1·2 m	30	7·2
52731	0·4 m	0·317 Oz/t	17·5
52732	3 m	95	5·0
52733	4·5 m	65	2·3
52734	2 m	45	2·5
52735	1 m	0·144 Oz/t	0·35 Oz/t
52736	1·7 m	0·028 Oz/t	4·7
52737	1·5 m	125	20·0
Portal 'A'			
17364	0·3 m	20	2·7
17365	3·5 m	20	1·1
17366	0·4 m	15	1·7
17367	0·5 m	0·054 Oz/t	3·4
17368	0·6 m	110	2·9
17369	5·5 m	70	4·8
17370	GRAB	0·142 Oz/t	1·06 Oz/t
17371	3·0 m	190	1·1
52744	3 m	85	0·7
52745	3 m	30	0·6
52746	1·7 m	0·112 Oz/t	9·8
52747	3 m	25	2·5
52748	3 m	15	1·0
52749	3 m	30	1·0
52750	5 m	20	1·0
52751	5 m	20	0·7
52752	5 m	20	0·6
52753	5 m	25	0·9
52754	0·7 m	105	4·3
52755	1 m	165	0·7
52756	0·6 m	0·040 Oz/t	3·0
52757	1 m	25	1·2
52758	2·8 m	0·032 Oz/t	7·1
52759	0·4 m	60	4·8
Portal 'C'			
17378	GRAB	85	4·5
17379	1·3 m	0·030 Oz/t	3·7
17380	0·5 m	0·652 Oz/t	0·73 Oz/t
17381	0·3 m	100	1·0
17382	GRAB	0·042 Oz/t	6·1
17383	9·0 m	60	6·7
52738	2 m	85	3·6
52739	3 m	35	1·7
52740	2 m	25	1·7
52741	1 m	30	1·3
52742	0·5 m	0·774 Oz/t	31·0
52743	1 m	250	4·3
Portal 'D'			
17384	0·8 m	10	0·9
17385	2·4 m	160	9·4
17386	5·0 m	105	4·6
17387	2·4 m	30	2·5
17388	2·2 m	130	2·1
17389	5·3 m	<5	0·7
17390	3·8 m	5	3·8
17391	4·4 m	10	0·7
17392	1·7 m	15	2·9
17393	3·5 m	30	1·0
17394	5·8 m	5	0·9
17395	1·4 m	120	5·4
52760	5 m	55	2·4
52761	3 m	35	1·0
52762	1·3 m	0·092 Oz/t	0·20 Oz/t
52763	3 m	25	1·2
52764	5 m	160	2·4
52765	5 m	40	2·0
52766	5 m	20	1·3
52767	5 m	65	1·7
52768	5 m	60	2·2
52769	5 m	25	1·7
52770	5 m	55	3·3
52771	5 m	15	1·3

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WILSON GEWARGIS, B.Sc., F.G.A.C.
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SUN VALLEY GOLD MINES LTD.

BLACK MAMMOTH - MONTE CRISTO PROPERTY
GILBERT MINING DISTRICT
ESMERALDA COUNTY, NEVADA

UNDERGROUND WORKINGS (A,B,C,D PORTALS)

SCALE: 1:600	FIG: 19
DRAWN BY: D.G.	DATE: MARCH, 1987

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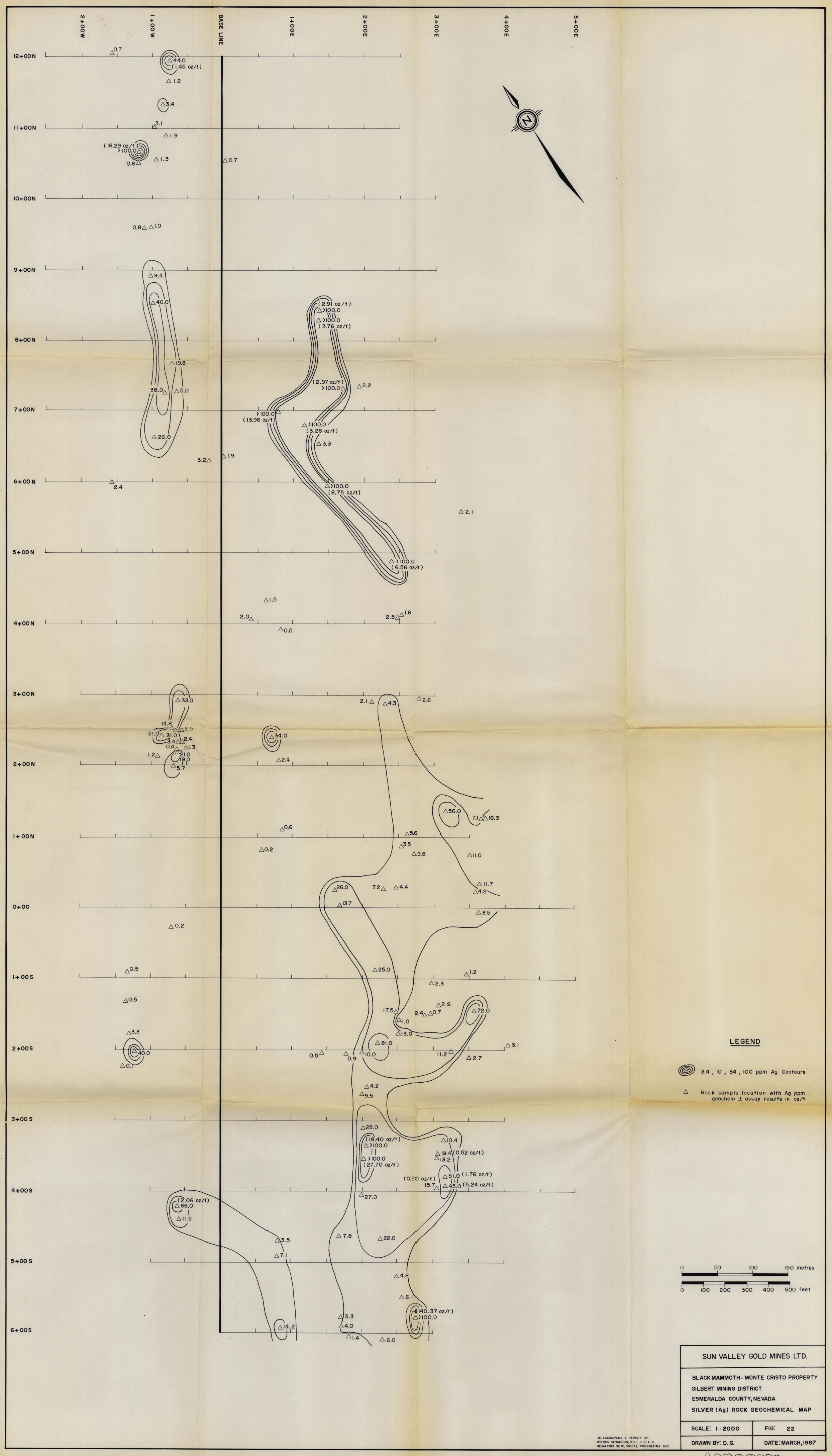

SUN VALLEY GOLD MINES LTD.

BLACK MAMMOTH - MONTE CRISTO PROPERTY
GILBERT MINING DISTRICT
ESMERALDA COUNTY, NEVADA
SILVER (Ag) ROCK GEOCHEMICAL MAP

SCALE: 1:2000	FIG: 22
DRAWN BY: D. G.	DATE: MARCH, 1987

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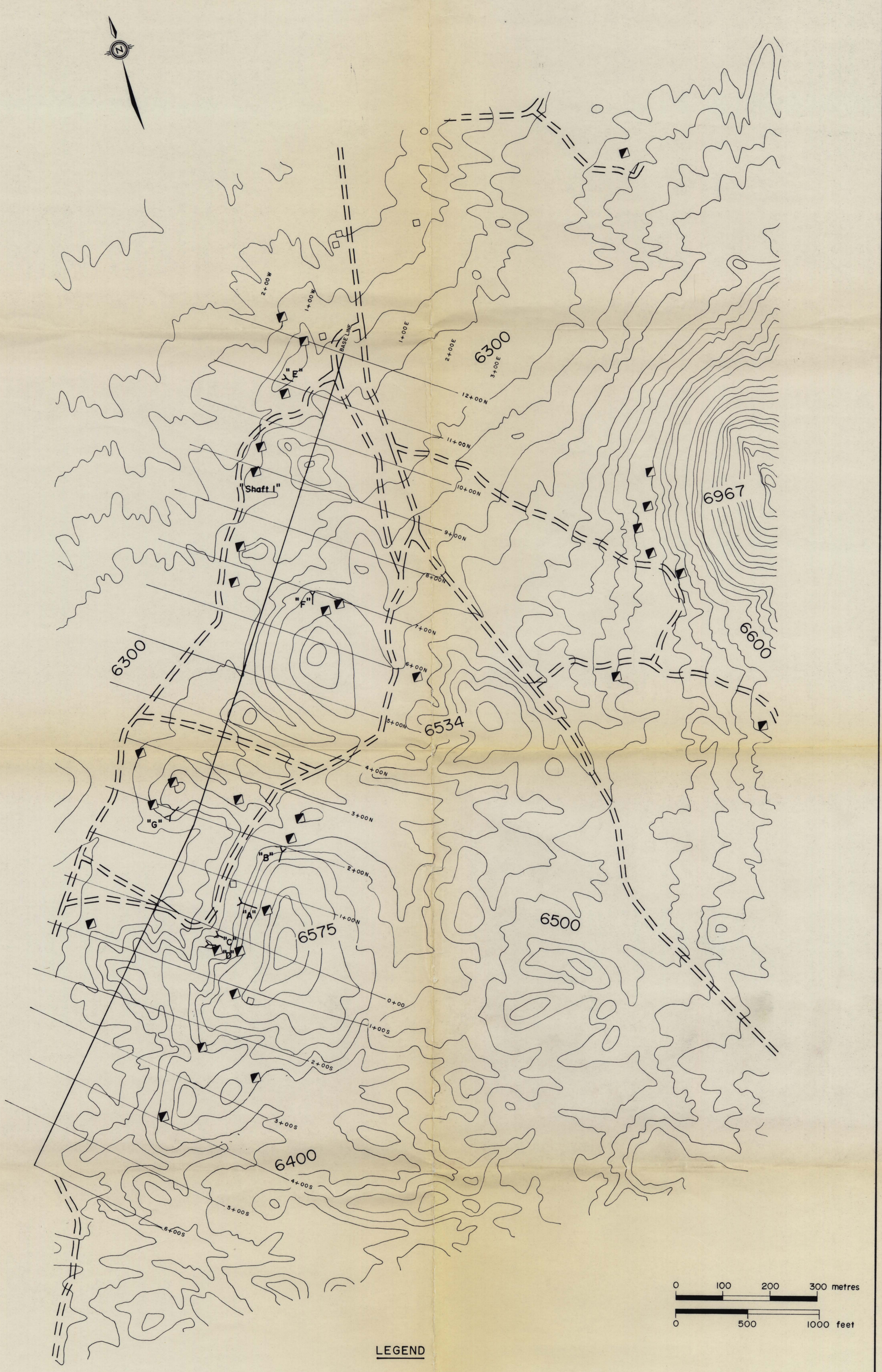

SUN VALLEY GOLD MINES LTD

BLACK MAMMOTH-MONTE CRISTO PROPERTY

GILBERT MINING DISTRICT

ESMERALDA COUNTY, NEVADA

GRID AND UNDERGROUND WORKINGS MAP

SCALE: 1:5000	FIG: 4
DRAWN BY: D.G.	DATE: MARCH, 1987

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2+00W
1+00W
BASE LINE
1+00E
2+00E
3+00E
4+00E
5+00E
12+00N
11+00N
10+00N
9+00N
8+00N
7+00N
6+00N
5+00N
4+00N
3+00N
2+00N
1+00N
0+00
1+00S
2+00S
3+00S
4+00S
5+00S
6+00S
AREA # 1
AREA # 2
AREA # 3
AREA # 4
87-1
87-2
87-3
87-4
87-5
87-6
87-7
87-8
87-9
87-10
A
V
S
I
N
0 50 100 150 metres
0 100 200 300 400 500 feet
I : Intrusive
A: Andesite
V: Volcanics
S: Sediments
LEGEND
400,600,800,1000 PPm Contours
87-1 Drill Hole
SUN VALLEY GOLD MINES LTD.
BLACK MAMMOTH - MONTE CRISTO PROPERTY
GILBERT MINING DISTRICT
ESMERALDA COUNTY, NEVADA
GEOCHEMICAL SURVEY - BARIUM (Ba)
(SOILS)
SCALE: 1:2000
FIG: 18
DRAWN BY: D. G.
DATE: MARCH, 1987
TO ACCOMPANY A REPORT BY:
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GEWARGIS GEOLOGICAL CONSULTING INC.

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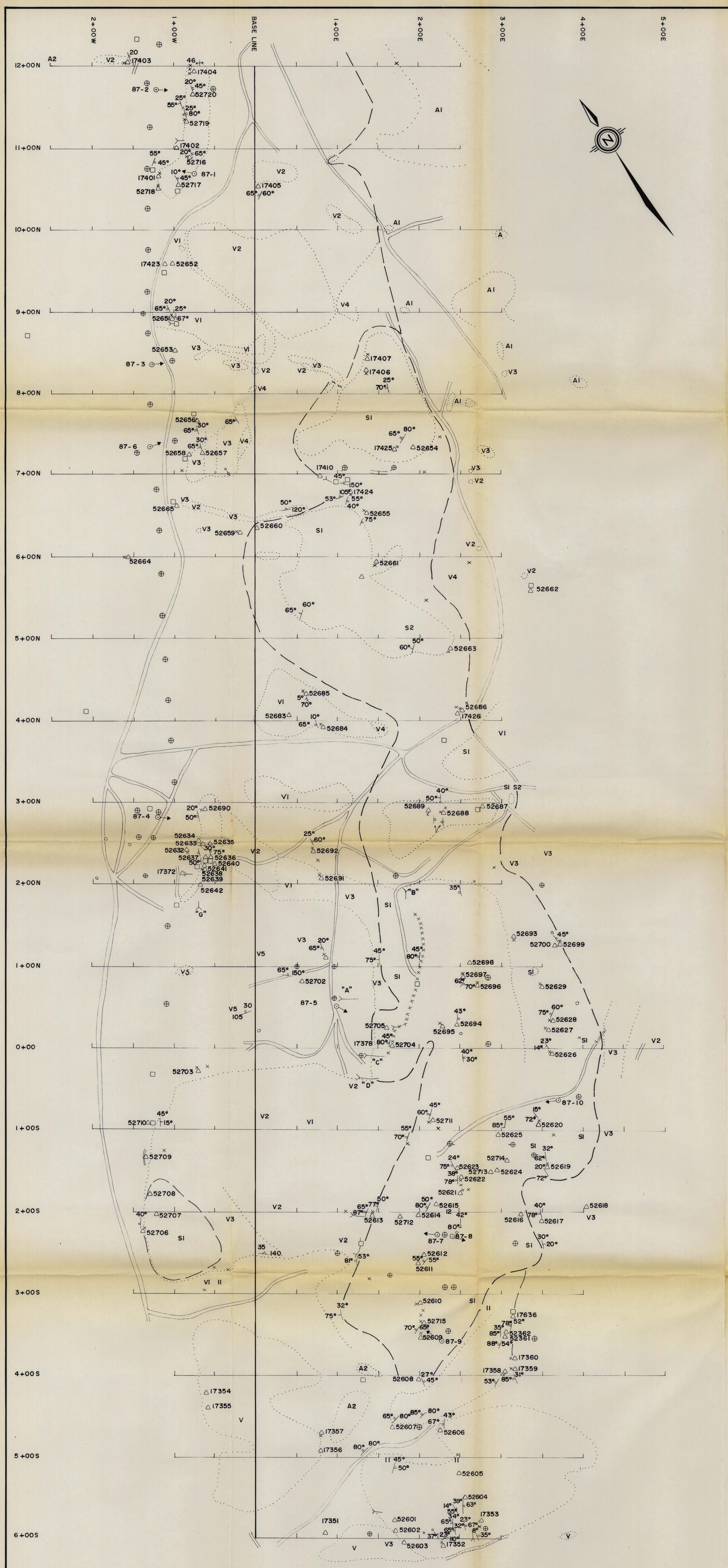

Sample No.	Width(M)	Au PPb	Ag PPm
17351	1·0 m	10	14·2
17352	0·3 m	360	6·2
17353	GRAB	0·290 Oz/t	140·37 Oz/t
17354	0·9 m	135	2·06 Oz/t
17355	0·9 m	20	11·5
17356	GRAB	5	7·1
17357	GRAB	5	3·5
17358	0·9 m	25	0·50 Oz/t
17359	0·6 m	350	5·24 Oz/t
17360	0·4 m	265	1·76 Oz/t
17361	GRAB	90	13·2
17362	0·9 m	0·026 Oz/t	0·52 Oz/t
17363	GRAB	740	10·4
17382	GRAB	0·042 Oz/t	6·1
17401	3·0 m	0·154 Oz/t	18·29 Oz/t
17402	3·0 m	40	3·1
17403	2·0 m	10	0·7
17404	GRAB	0·374 Oz/t	1·45 Oz/t
17405	0·5 m	85	0·7
17406	1·0 m	310	3·76 Oz/t
17407	2·0 m	0·026 Oz/t	2·91 Oz/t
17408	GRAB	0·038 Oz/t	4·96 Oz/t
17410	GRAB	0·056 Oz/t	13·96 Oz/t
17423	2·0 m	30	0·8
17424	2·0 m	235	3·26 Oz/t
17425	2·0 m	0·030 Oz/t	2·97 Oz/t
17426	GRAB	10	2·5
52601	2·5 m	5	3·3
52602	GRAB	5	4·0
52603	GRAB	5	1·4
52604	0·3 m	60	6·1
52605	0·4 m	10	4·8
52606	0·3 m	85	22·0
52607	GRAB	35	7·8
52608	GRAB	270	27·0
52609	GRAB	0·330 Oz/t	27·70 Oz/t
52610	GRAB	80	28·0
52611	0·4 m	85	9·5
52612	0·4 m	20	4·2
52613	1·0 m	5	0·5
52614	GRAB	120	10·0
52615	GRAB	465	81·0
52616	0·4 m	85	11·2
52617	0·3 m	20	2·7
52618	GRAB	25	3·1
52619	0·3 m	0·038 Oz/t	72·0
52620	2·0 m	30	1·2
52621	5·0 m	90	13·0
52622	1·0 m	40	1·0
52623	0·8 m	20	17·5
52624	3·0 m	40	0·7
52625	GRAB	25	2·3
52626	1·0 m	25	3·5
52627	GRAB	80	4·2
52628	5·0 m	100	11·7
52629	GRAB	40	11·0
52630	1·5 m	180	6·8
52631	1·0 m	0·014 Oz/t	17·8
52632	0·4 m	215	31·0
52633	3·0 m	115	31·0
52634	2·5 m	35	14·8
52635	0·4 m	30	2·5
52636	2·0 m	50	2·4
52637	0·4 m	35	3·4
52638	3·0 m	255	21·0
52639	2·0 m	195	19·0
52640	6·2 m	40	1·3
52641	0·4 m	30	0·4
52642	1·5 m	40	5·7
52651	3·0 m	60	9·4
52652	1·0 m	5	1·0
52653	2·0 m	215	40·0
52654	5·0 m	5	2·2
52655	2·0 m	10	3·3
52656	2·0 m	50	19·8
52657	2·5	405	5·0
52658	GRAB	320	38·0
52659	2·0 m	20	3·2
52660	2·0 m	25	1·9
52661	2·0 m	270	8·75 Oz/t
52662	GRAB	5	2·1
52663	2·0 m	240	6·56 Oz/t
52664	2·5 m	15	2·4
52665	GRAB	95	26·0
52683	3·0 m	25	2·0
52684	1·0 m	250	0·5
52685	1·0 m	15	1·5
52686	GRAB	10	1·6
52687	GRAB	5	2·6
52688	1·0 m	30	4·3
52689	2·0 m	35	2·1
52690	4·0 m	270	33·0
52691	2·0 m	25	2·4
52692	2·0 m	445	34·0
52693	2·0 m	65	56·0
52694	3·0 m	45	4·4
52695	GRAB	295	7·2
52696	3·0 m	105	9·5
52697	GRAB	235	3·5
52698	1·0 m	30	5·6
52699	1·0 m	35	16·3
52700	1·5 m	25	7·1
52701	1·0 m	25	0·6
52702	2·0 m	5	0·2
52703	1·0 m	5	0·2
52704	0·3 m	0·222 Oz/t	13·7
52705	GRAB	0·284 Oz/t	26·0
52706	1·5 m	10	0·1
52707	GRAB	0·034 Oz/t	40·0
52708	4·0 m	30	3·3
52709	4·0 m	5	0·5
52710	GRAB	5	0·5
52711	1·0 m	0·014 Oz/t	25·0
52712	2·0 m	10	0·9
52713	3·0 m	50	2·4
52714	2·0 m	40	2·9
52715	GRAB	0·094 Oz/t	18·40 Oz/t
52716	4·0 m	90	1·9
52717	3·0 m	40	1·3
52718	1·5 m	5	0·6
52719	1·5 m	205	3·4
52720	3·0 m	275	1·2
52721	2·0 m	10	0·3
52722	4·0 m	10	0·1
52723	GRAB	5	0·1
52724	4·0 m	5	0·1
52725	GRAB	5	0·1

SYMBOLS

- Area of O/C
- Bedding
- Flowbanding
- Fracture/Sointing
- Vein
- Inferred Geological Contact
- Shaft
- Adit
- Trench or Pit
- Rock Sample
- Road
- 87-1 Drill Hole-1987
- Proposed Drill Holes

ROCK DESCRIPTION

INTRUSIVE:

I1: Intrusive

I2: Porphyritic Intrusive

ANDESITE:

A1: Andesitic Flow

A2: Andesite to Basalt

VOLCANIC:

V1: Fine Grain Crystal Tuff

V2: Crystal-Lithic Tuff

V3: Fine Grain-Aphanitic Tuff

V4: Med. Grain Greenish-Brown, Crystal-Lithic Tuff

V5: Med. Grain Andesite to Dacite

SEDIMENTS:

S1: Cherty Siliceous Sediments

S2: Dark Gray to Black Siliceous Sediments

0 50 100 150 metres

0 100 200 300 400 500 feet

SUN VALLEY GOLD MINES LTD.

BLACK MAMMOTH-MONTE CRISTO PROPERTY

GILBERT MINING DISTRICT

ESMERALDA COUNTY, NEVADA

PROPERTY GEOLOGY AND DRILL HOLE LOCATIONS

SCALE: 1:2000	FIG: 5
DRAWN BY: D. G.	DATE: MARCH, 1987

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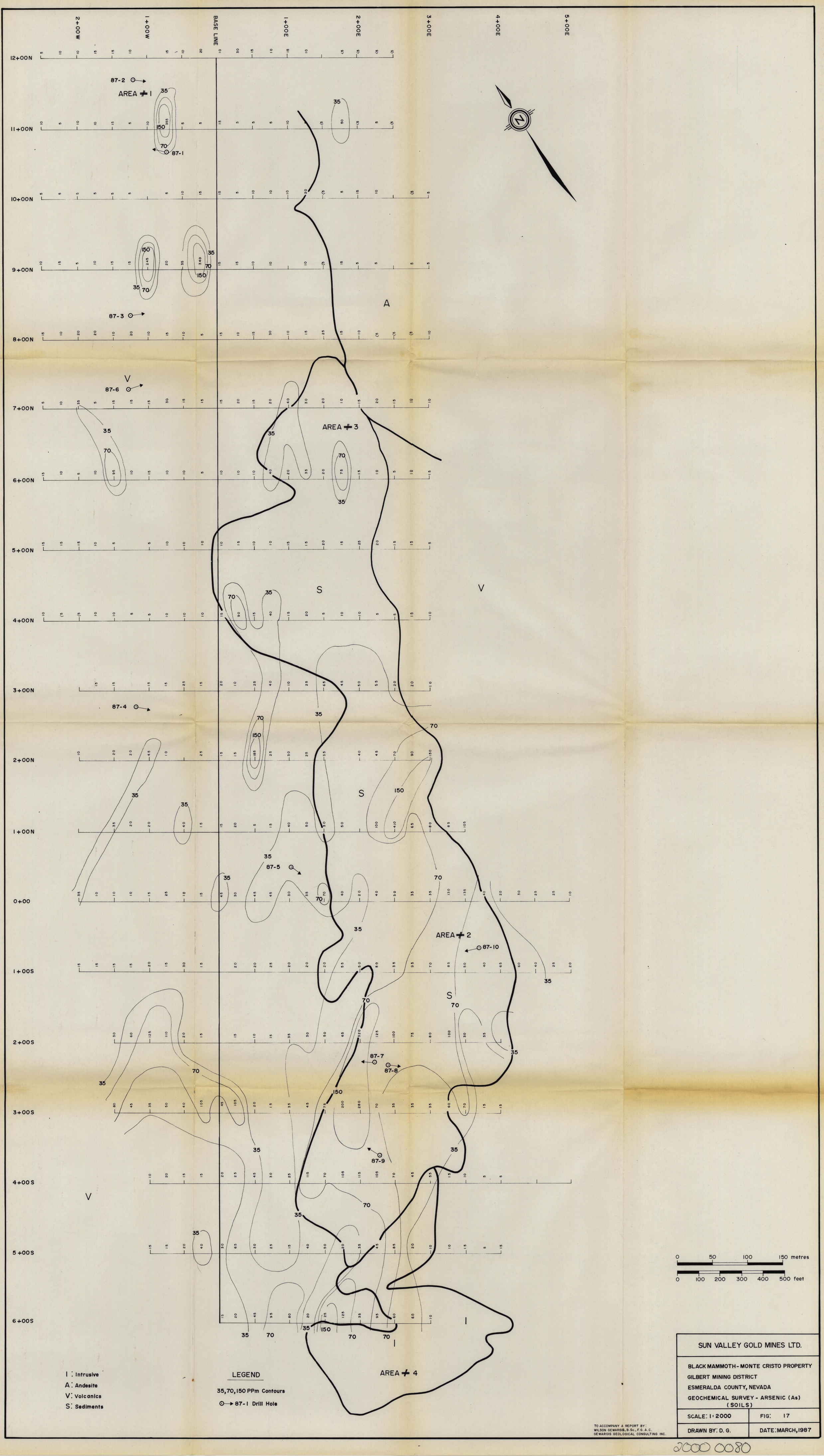
2+00W
1+00W
BASE LINE
1+00E
2+00E
3+00E
4+00E
5+00E
12+00N
11+00N
10+00N
9+00N
8+00N
7+00N
6+00N
5+00N
4+00N
3+00N
2+00N
1+00N
0+00
1+00S
2+00S
3+00S
4+00S
5+00S
6+00S
AREA # 1
AREA # 2
AREA # 3
AREA # 4
87-1
87-2
87-3
87-4
87-5
87-6
87-7
87-8
87-9
87-10
A
V
S
I
N
0 50 100 150 metres
0 100 200 300 400 500 feet
I : Intrusive
A : Andesite
V : Volcanics
S : Sediments
LEGEND
35,70,150 PPm Contours
87-1 Drill Hole
SUN VALLEY GOLD MINES LTD.
BLACK MAMMOTH - MONTE CRISTO PROPERTY
GILBERT MINING DISTRICT
ESMERALDA COUNTY, NEVADA
GEOCHEMICAL SURVEY - ARSENIC (As)
(SOILS)
SCALE: 1:2000
FIG: 17
DRAWN BY: D. G.
DATE: MARCH, 1987
TO ACCOMPANY A REPORT BY:
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GEWARGIS GEOLOGICAL CONSULTING INC.

2000 0080

2+00W
1+00W
BASE LINE
1+00E
2+00E
3+00E
4+00E
5+00E
12+00N
11+00N
10+00N
9+00N
8+00N
7+00N
6+00N
5+00N
4+00N
3+00N
2+00N
1+00N
0+00
1+00S
2+00S
3+00S
4+00S
5+00S
6+00S
N
87-1
87-2
87-3
87-4
87-5
87-6
87-7
87-8
87-9
87-10
AREA # 1
AREA # 2
AREA # 3
AREA # 4
A
V
S
I
0·6
1·0
2·0
0
50
100
150 metres
0
100
200
300
400
500 feet
I : Intrusive
A : Andesite
V : Volcanics
S : Sediments
LEGEND
0·6, 1·0, 2·0 PPm Contours
87-1 Drill Hole
TO ACCOMPANY A REPORT BY:
WILSON GEWARGIS, B.Sc., F.G.A.C.
GEWARGIS GEOLOGICAL CONSULTING INC.
SUN VALLEY GOLD MINES LTD.
BLACK MAMMOTH - MONTE CRISTO PROPERTY
GILBERT MINING DISTRICT
ESMERALDA COUNTY, NEVADA
GEOCHEMICAL SURVEY - SILVER (Ag)
(SOILS)
SCALE: 1:2000
FIG: 16
DRAWN BY: D. G.
DATE: MARCH, 1987