0730 0032 BROKEN HILLS

BROKEN HILLS MINE REPORT
for
Claude Lovestedt

Submitted by
T. R. Frank
Mineral Exploration Consultant

THOMAS R. FRANK
Mineral Exploration Consultant

2190 Carter Drive • Reno, Nevada 89509
Phone: (702) 747-2307

Uranium
Base-Precious Metals
Coal

September 6, 1977

Land Survey's
Aquisition
Contract Negotations

Mr. Claude Lovestedt

Dear Claude,

Enclosed you will find a tracing of the 350 foot level map at Broken Hills, provided by you, with sample sights plotted.

You mentioned that some individuals had sampled the 350 foot level; however, I would strongly suspect this. All evidence that I could find indicated they were at the 250 foot level. They must have sampled this level because I found paper sample bags and other trash left at the cross-cut.

If you plan on going back to this level, I would suggest taking breathers as the air is not very fresh.

I quickly looked over the main shaft, the 150 foot level and the 250 foot level; and found the workings to be in fair shape. I don't think you will need to do much to reopen; the main problem being cleanup.

Both the Fidelity and the Broken Hills Veins were sampled (see enclosed map) and the sample sites plotted. The Broken Hills vein is trending about N25° to 40°W where observed, and dips approximately 76° west. The Fidelity vein trends about N5° to 10°E, and dips 60° to 65° west. The Fidelity appears both from your map and from observations on the 350 foot level to cross-cut the Broken Hills vein.

The only rock type observed in the 350 foot level was an andesite tuff. The tuff is greyish-white in color and appears to be a true tuff rather than an ignimbrite. The rock, when in proximity to the two main vein systems, has suffered moderate to intense argillic alteration; micro-quartz veinlets and iron oxides are present in this altered zone.

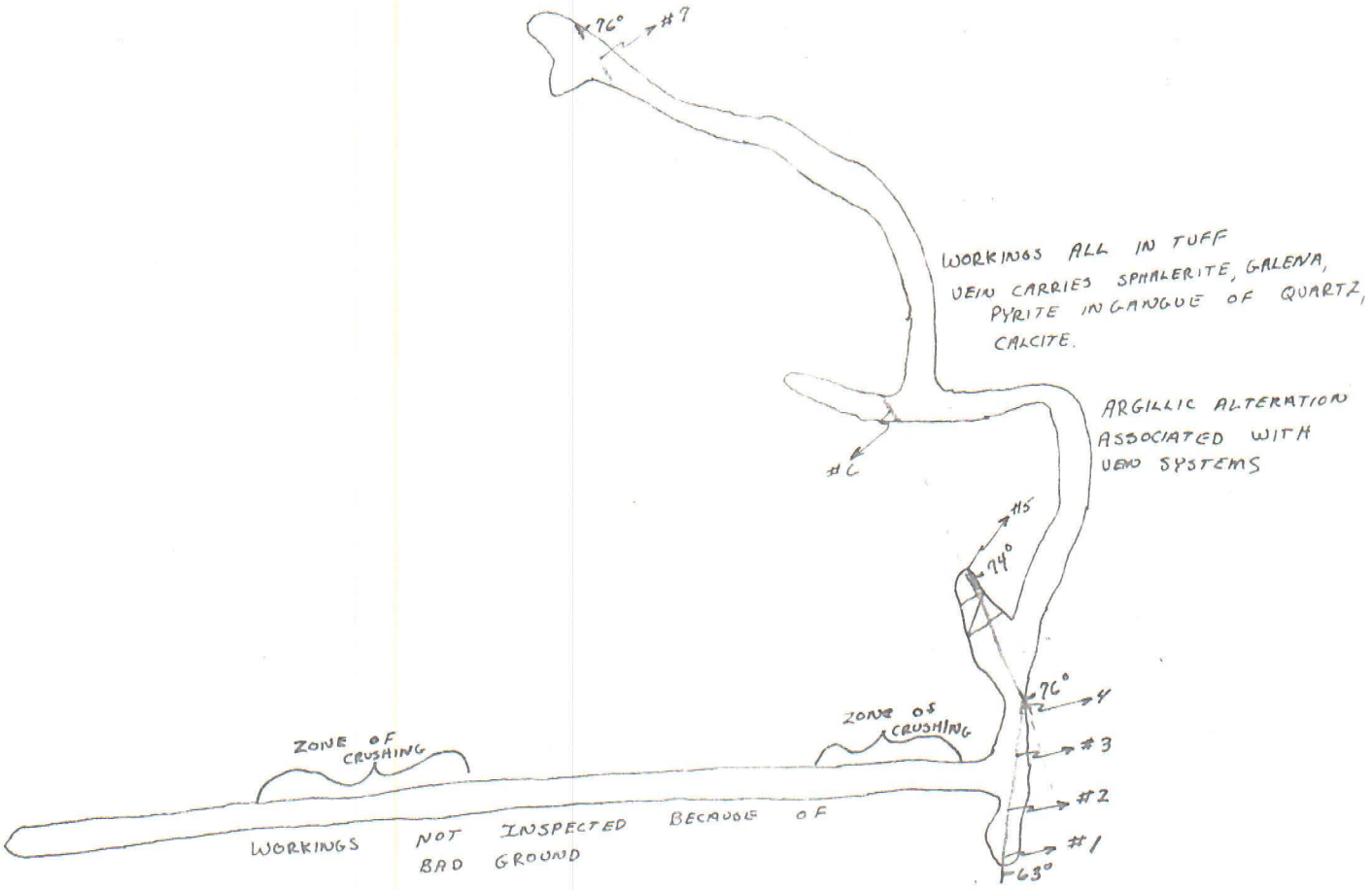
The only sulfide minerals observed were sphalerite, some galena, and pyrite set in qanque of quartz and calcite.

Respectfully submitted,

T.R. Frank
Mineral Exploration Consultant

BROKEN HILLS MINE

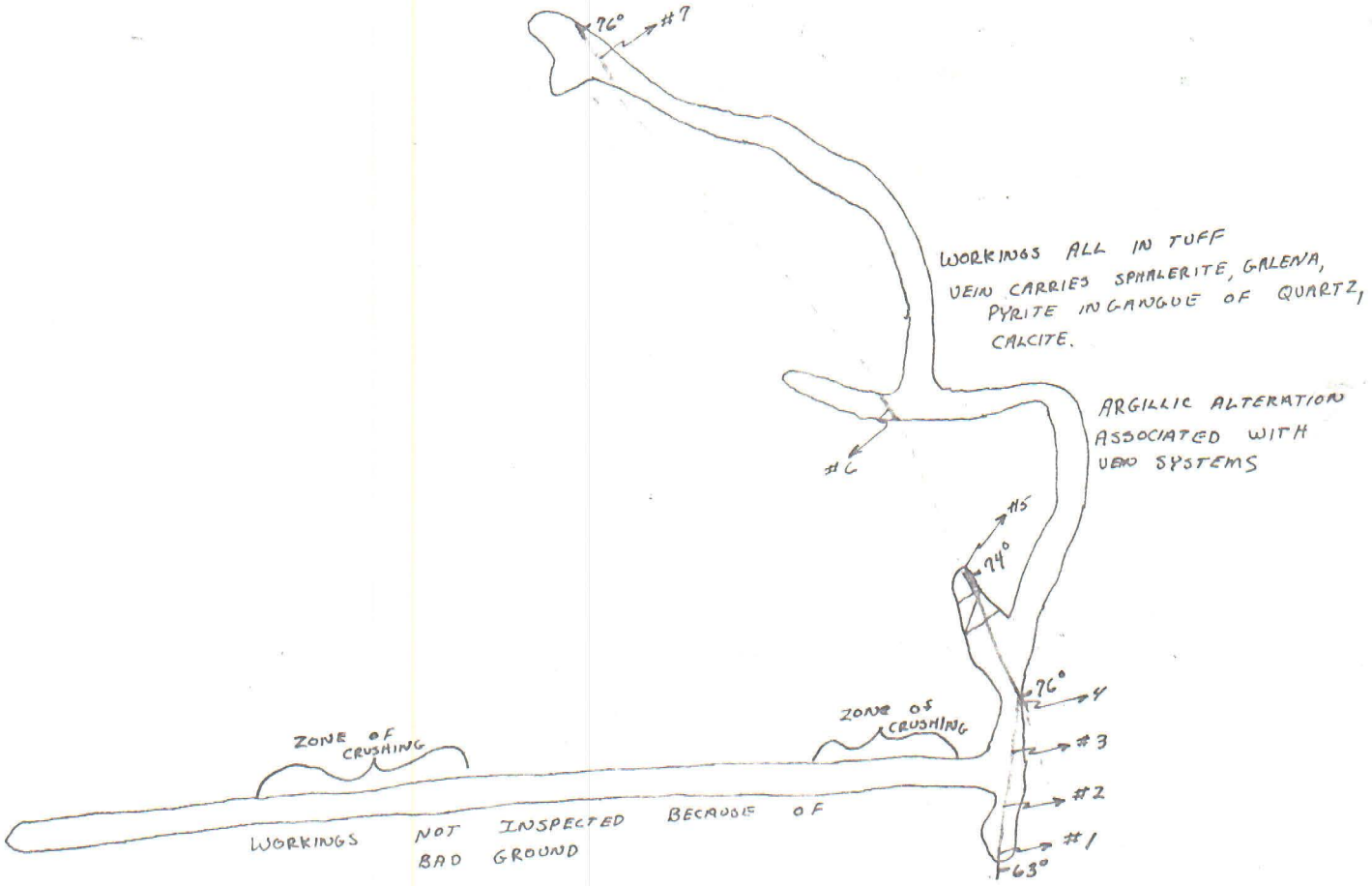
PLAN SECTION
350' LEVEL



TRF
Aug 1977

BROKEN HILLS MINE

PLAN SECTION
350' LEVEL



TRF
Aug 1977

HUNTER MINING LABORATORY, INC.

1593 GREG STREET • SPARKS, NEVADA 89431 • TELEPHONE: (702) 358-6227

REPORT OF ANALYSIS

Submitted by:

MR. THOMAS R. FRANK
2190 Carter Drive
Reno, Nevada

Date: August , 1977

Laboratory Number: 2354

Analytical Method: Fire AA

Your Order Number:

Report on: 7 samples.

Sample Mark:	Gold oz/ton	Silver oz/ton	Lead percent	Zinc percent
BH-1	trace	6.56	0.56	5.6
2	none	0.80	0.24	0.62
3	trace	0.96	0.12	0.34
4	trace	2.80	0.38	2.25
5	trace	2.44	0.90	2.20
6	trace	2.24	0.45	0.63
BH-7	trace	0.84	0.18	2.30

HUNTER MINING LABORATORY, INC.

H. H. Scales

H. H. Scales

Trace of Gold indicates presence but below 0.005 oz/ton.

ppm = parts per million. **oz/ton** = troy ounces per ton of 2000 pounds avoirdupois. **percent** = parts per hundred. **fineness** = parts per thousand. Read + as "greater than", and – as "less than". 1 oz/ton = 34.286 ppm. 1 ppm = 0.0001% = 0.029167 oz/ton. 1.0% = 20 pounds/ton.

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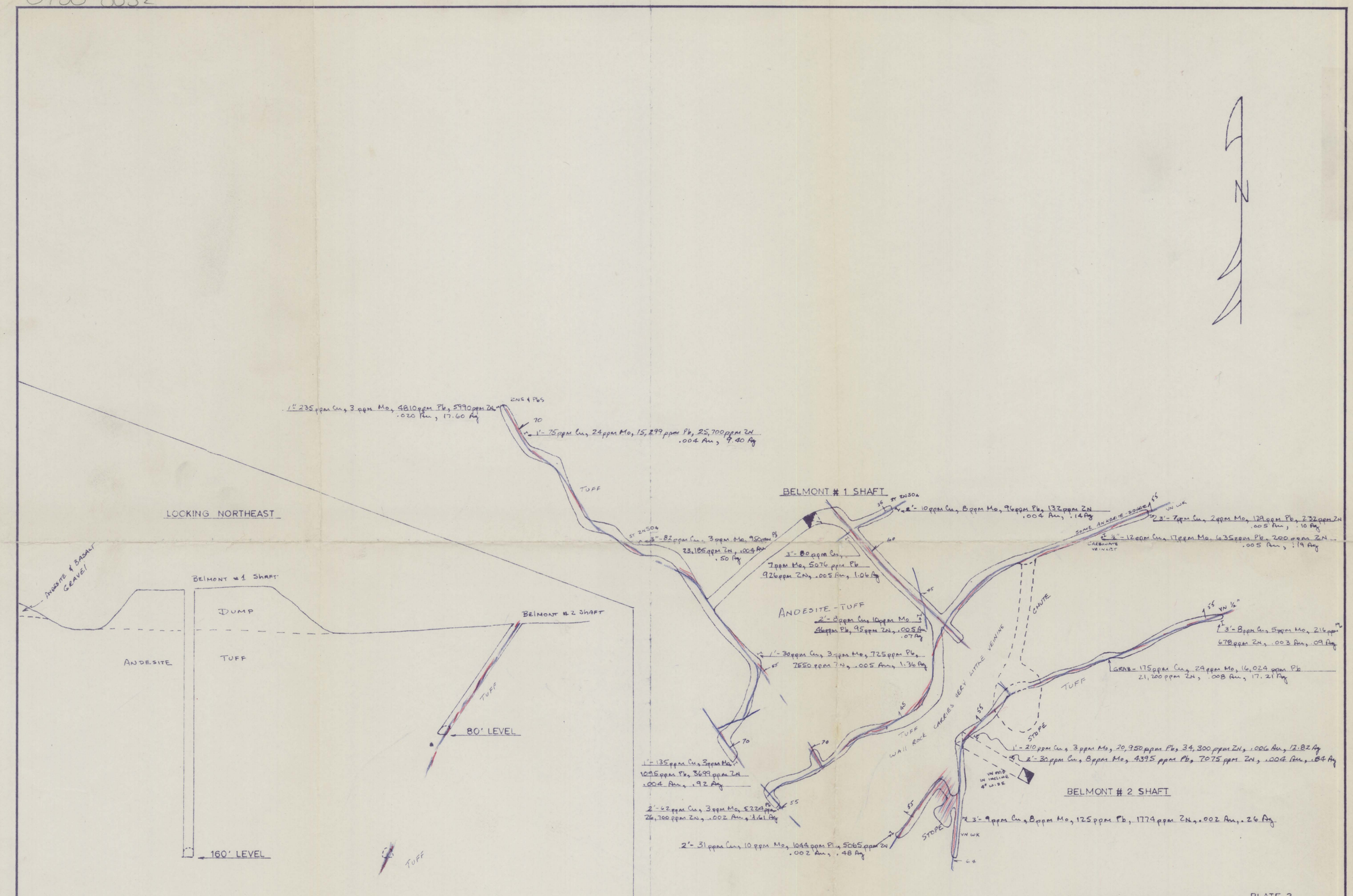


PLATE 3

DUVAL SULPHUR & POTASH COMPANY

COPPER DIVISION — TUCSON, ARIZONA

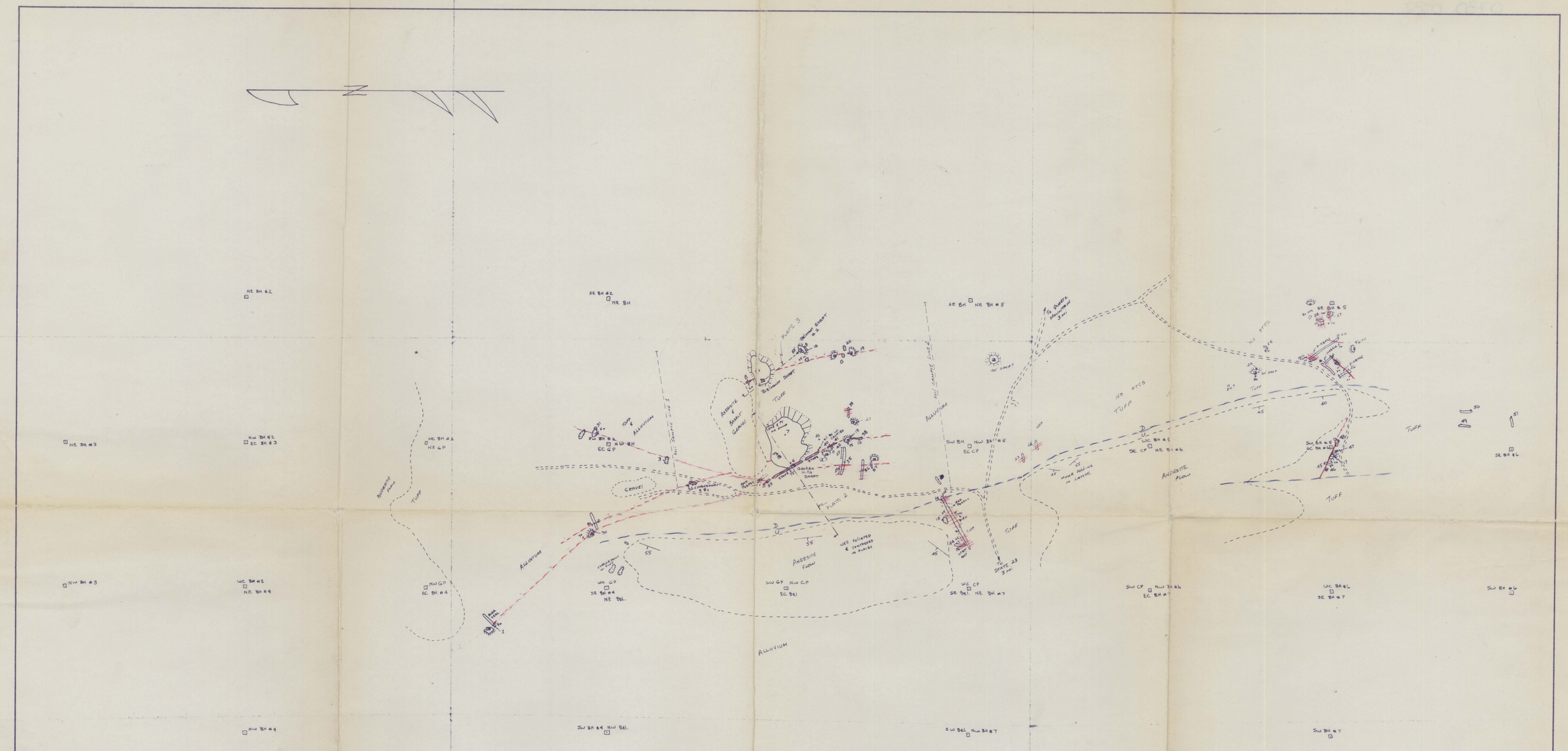
BROKEN HILLS MINE

DESATOYA RANGE

MINERAL COUNTY, NEVADA

App'd by	Scale 1" = 40'	Date 12/20/65
App'd by	Drawn by MCT	Drawing No.
App'd by	Ch'k'd by	

0730 0032



EXPLANATION

CHARACTERISTICS

- ALLUVIUM - GRAVEL - BASALT & ANDESITE COBBLES
- ALLUVIUM - FINER GRAVEL & SAND

TERTIARY

- ANDESITE FLOW - PASS. WELDED TUFF
- ANDESITE PORPHYRY - INTRUSIVE
- TUFF -

VEIN — SECTION ON PLATE 2

FAULT — SECTION ON PLATE 3

PIT OR TRENCH

LOCATIONS ARE APPROXIMATE, NOT SURVEYED

DUVAL SAMPLES

BROKEN HILLS CLAIMS

- Broken Hills
- Broken Hills 2-7
- Belmont
- Grand Prize
- Crown Point
- Western Exploration: Black Horse, Black Horse 2 & 3, Wim Wam 1-8

SAMPLE	ASSAY RESULTS Cu (PPM)	Mo (PPM)	Pb (PPM)	Zn (PPM)	Au (OZ/TON)	Ag (OZ/TON)	WIDTH
1	20	65	1067	575	.005	.52	2'
2	19	17	255	2035	.005	.22	3'
3	4	1	57	73	.002	.04	Rx chip
4	4	8	114	40	.002	.11	Rx chip
5	6	8	6150	122	.003	.67	Rx chip
6	44	5	74060	2650	.004	4.80	DUMP
7	11	8	3950	4800	.004	9.30	DUMP
8	9	2	410	1135	.002	.21	1.5'
9	4	5	100	275	.002	.07	DUMP
10	20	5	3570	1335	.003	2.40	DUMP
11	25	6	9310	205	.003	4.80	DUMP
12	34	17	17260	700	.011	26.90	Rx chip
13	25	6	12650	930	.003	9.30	DUMP
14	8	5	635	138	.001	.75	Rx chip
15	8	8	2700	735	.002	.40	Rx chip
16	7	5	245	470	.002	.09	4'
17	1620	8	13610	27605	.020	35.8	DUMP
18	11	2	78	750	Nil	.09	DUMP
19	81	22	572	250	Nil	.04	DUMP
20	11	8	144	650	Nil	.12	Rx chip
21	7	11	4000	70	Nil	.92	DUMP
22	14	5	7	67	Nil	.01	2'
23	7	5	7	52	TR	.01	1'
24	6	5	36	00	.001	.02	GRAB - DUMP
25	7	5	3000	85	.002	.59	Rx chip
26	21	21	400	200	TR	.04	3'
27	6	15	20	15	TR	.02	3'
28	70	28	48	210	.001	.03	2'
29	10	TR	65	40	.001	.07	9'
29A	18	17	24	100	.002	.03	6'

STANDARD SLAG SAMPLES

SAMPLE	ASSAY RESULTS Cu (PPM)	Mo (PPM)	Pb (PPM)	Zn (PPM)	Au (OZ/TON)	Ag (OZ/TON)	WIDTH
30			14000		.01	.20	GRAB - DUMP
31			9000		.02	.20	12'
32			14000		.01	.20	GRAB - DUMP
33			21,000		.05	15.00	DUMP
34			7000		.03	1.60	5'
35			6000		.01	.40	39'
36			6000		.01	.30	40'
37			33,000		.01	13.60	4'
38			18,000		.04	3.80	6'
39			9000	6000	.01	.60	7'
40			52,000		.01	45.40	6'
41			11,000	5000	.03	1.20	6'
42			1000		.03	1.20	7'
43			13,000		.05	19.80	6'
44			10000		.02	.20	7'
45			6000		.01	.20	10'
46			11,000	6000	.03	1.80	8.5
47					.02	2.30	DUMP
48			48000		TR	1.60	GRAB
49			26000		TR	.20	Rx chip
50			11000		TR	.20	Rx chip
51			17000		TR	.60	Rx chip

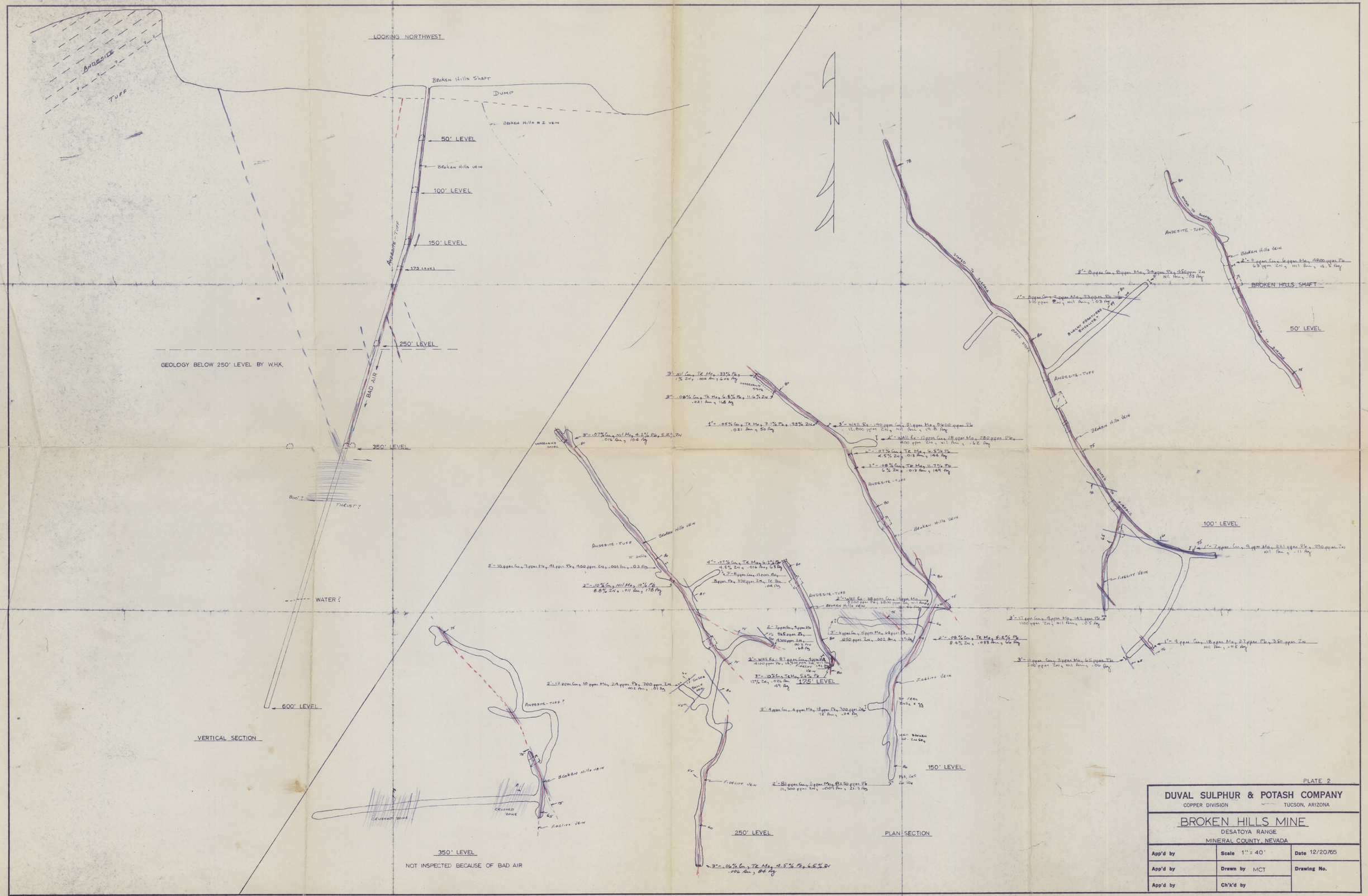
PLATE 1

DUVAL CORPORATION
COPPER DIVISION
ESPERANZA PROPERTY — SAHUARITA, ARIZONA

BROKEN HILLS MINE
DESATOYA RANGE
MINERAL COUNTY, NEVADA

Design'd by	Scale 1"=200'	Date 12/20/65
App'd by	Drawn by MCT	Drawing No.
App'd by	Ch'k'd by	

0730 0032


LOOKING NORTHWEST
ANDESITE
TUFF
BROKEN HILLS SHAFT
DUMP
BROKEN HILLS #2 VEIN
50' LEVEL
BROKEN HILLS VEIN
100' LEVEL
150' LEVEL
175 LEVEL
250' LEVEL
350' LEVEL
600' LEVEL
ANDESITE - TUFF
BAD AIR
GEOLOGY BELOW 250' LEVEL BY W.H.K.
800'?
THRUST?
WATER?
VERTICAL SECTION
N
ANDESITE - TUFF
BROKEN HILLS VEIN
FIDELITY VEIN
CRUSHED ZONE
350' LEVEL
NOT INSPECTED BECAUSE OF BAD AIR
250' LEVEL
175' LEVEL
150' LEVEL
PLAN SECTION
BROKEN HILLS SHAFT
50' LEVEL
100' LEVEL
PLATE 2
DUVAL SULPHUR & POTASH COMPANY
COPPER DIVISION
TUCSON, ARIZONA
BROKEN HILLS MINE
DESATOYA RANGE
MINERAL COUNTY, NEVADA
App'd by
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Scale 1" = 40'
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