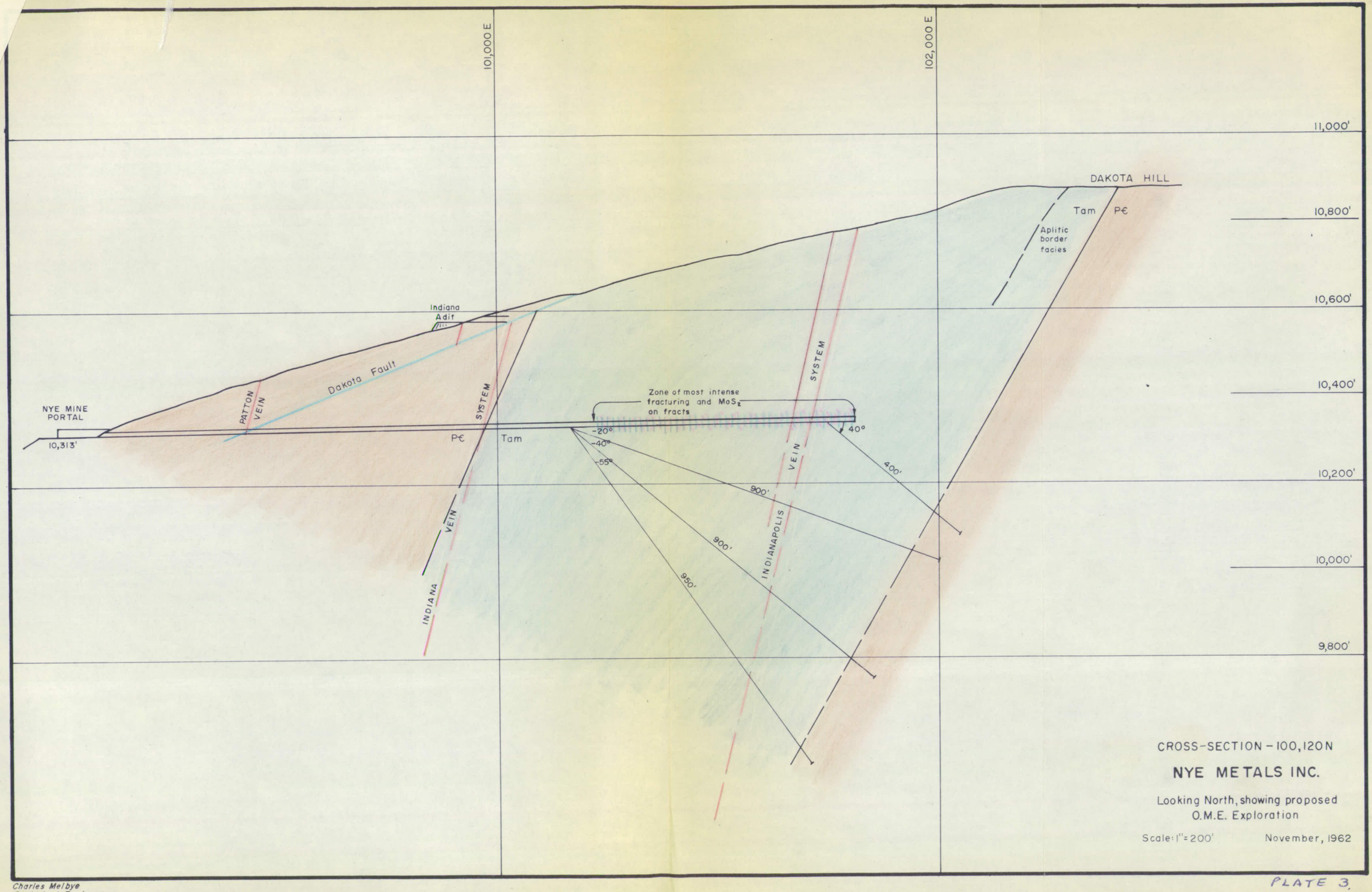


CROSS-SECTION – 100,120 N

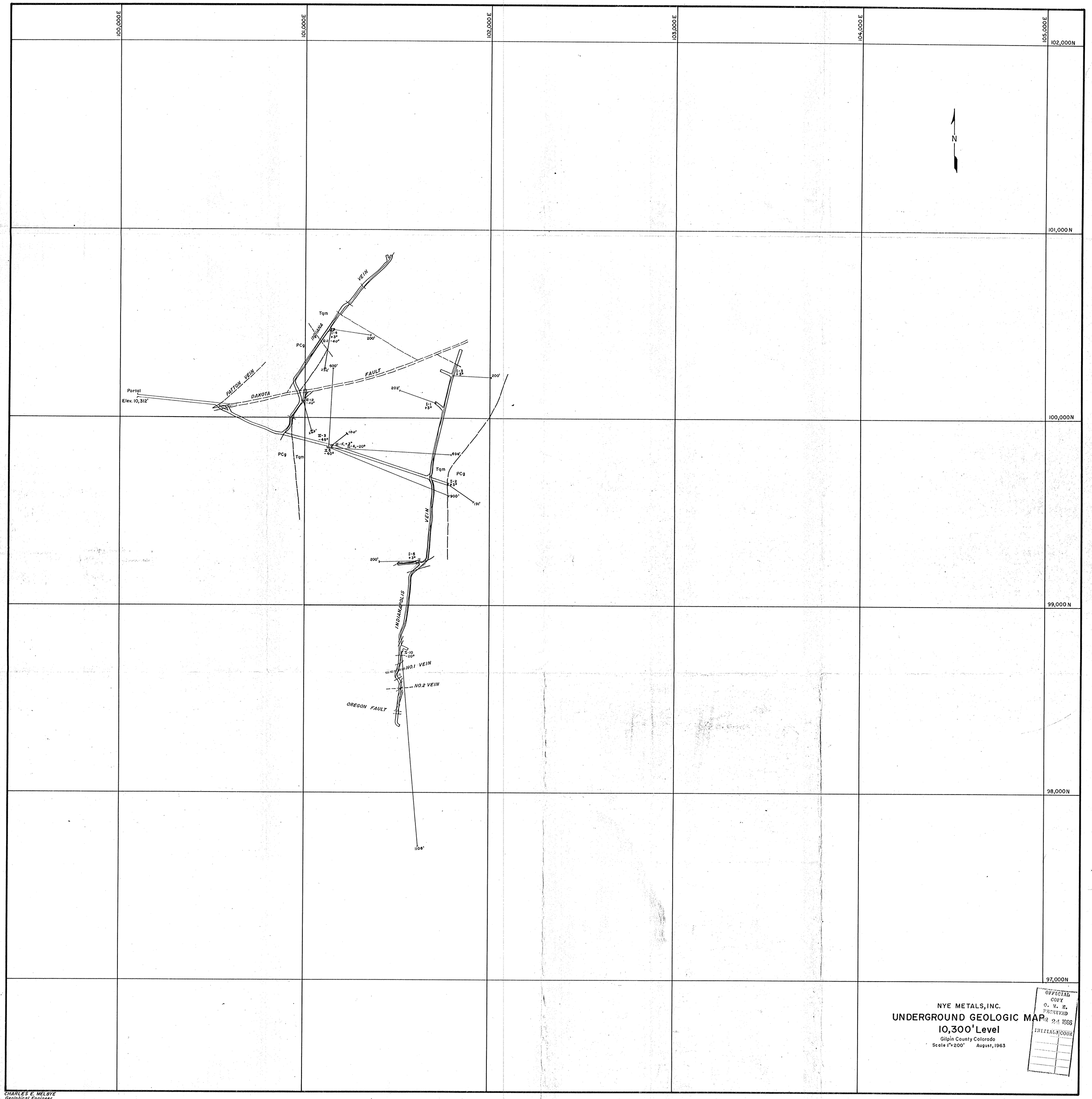
NYE METALS INC.

Looking North, showing proposed O.M.E. Exploration

Scale: 1" = 200' November, 1962

Charles Melbye
Geological Engineer

PLATE 3.



NYE METALS, INC.

UNDERGROUND GEOLOGIC MAP

10,300' Level

Gilpin County Colorado

Scale 1"=200' August, 1963

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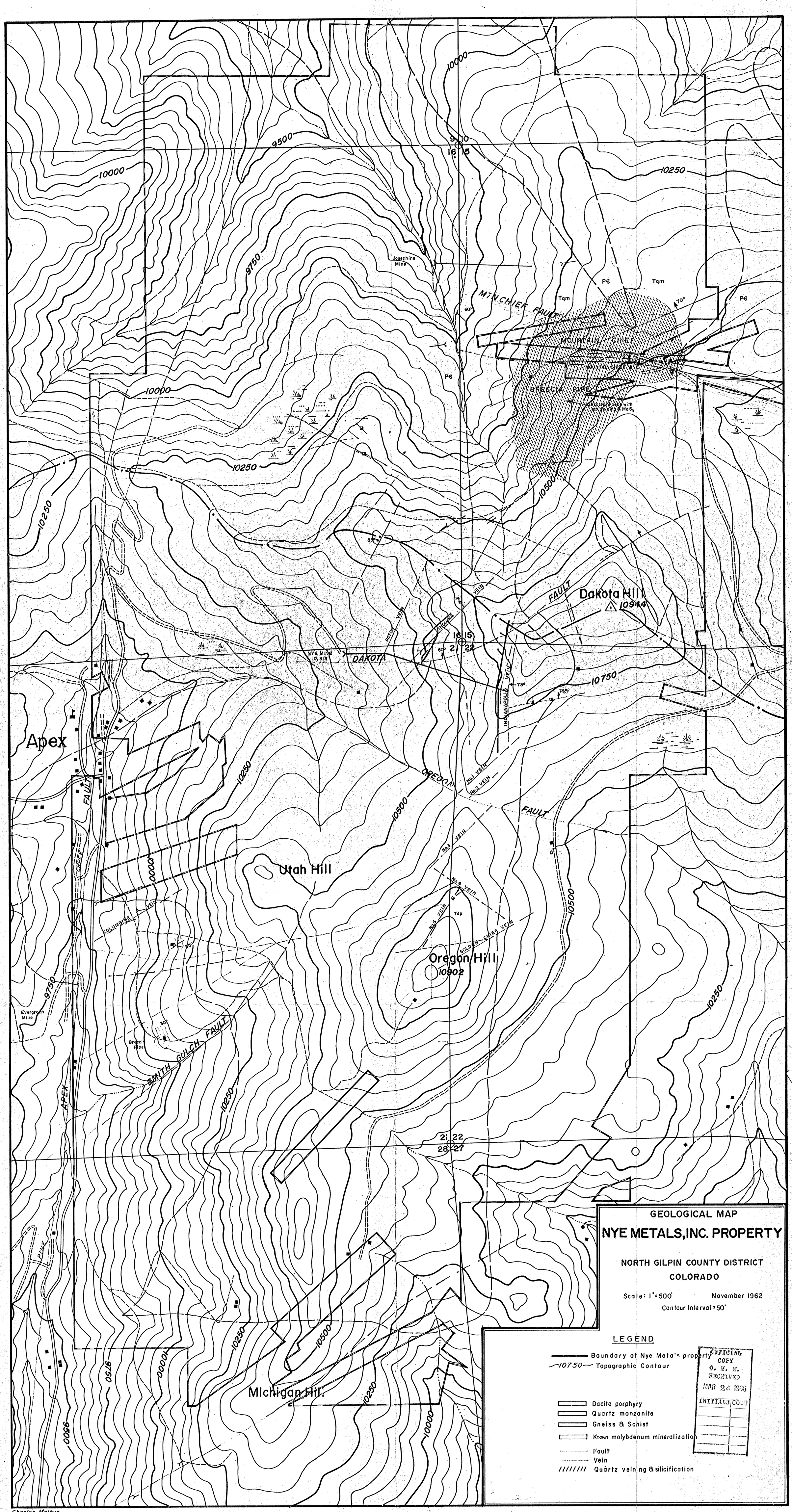
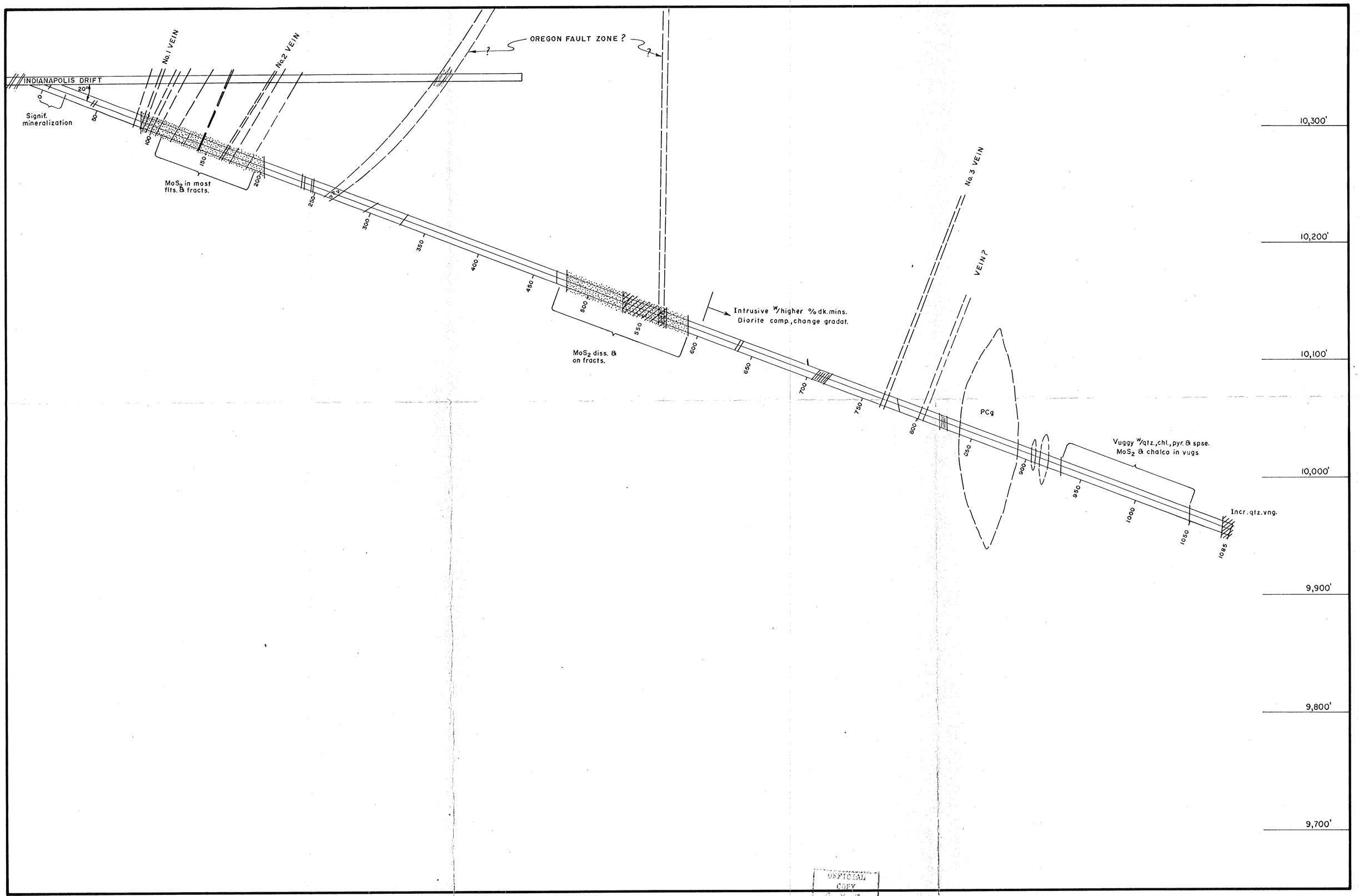
CHARLES E. MELBYE
Geological Engineer



Charles Melbye
Geological Engineer



CHARLES E. MELBYE
Geological Engineer

NYE METALS INC.

GEOLOGIC-ASSAY CROSS-SECTION

DRILL HOLE II-10

Scale 1" = 50' Elev. 10,337'
Section Looking East
June 1963

Docket No. 6231
Contract No. 2149

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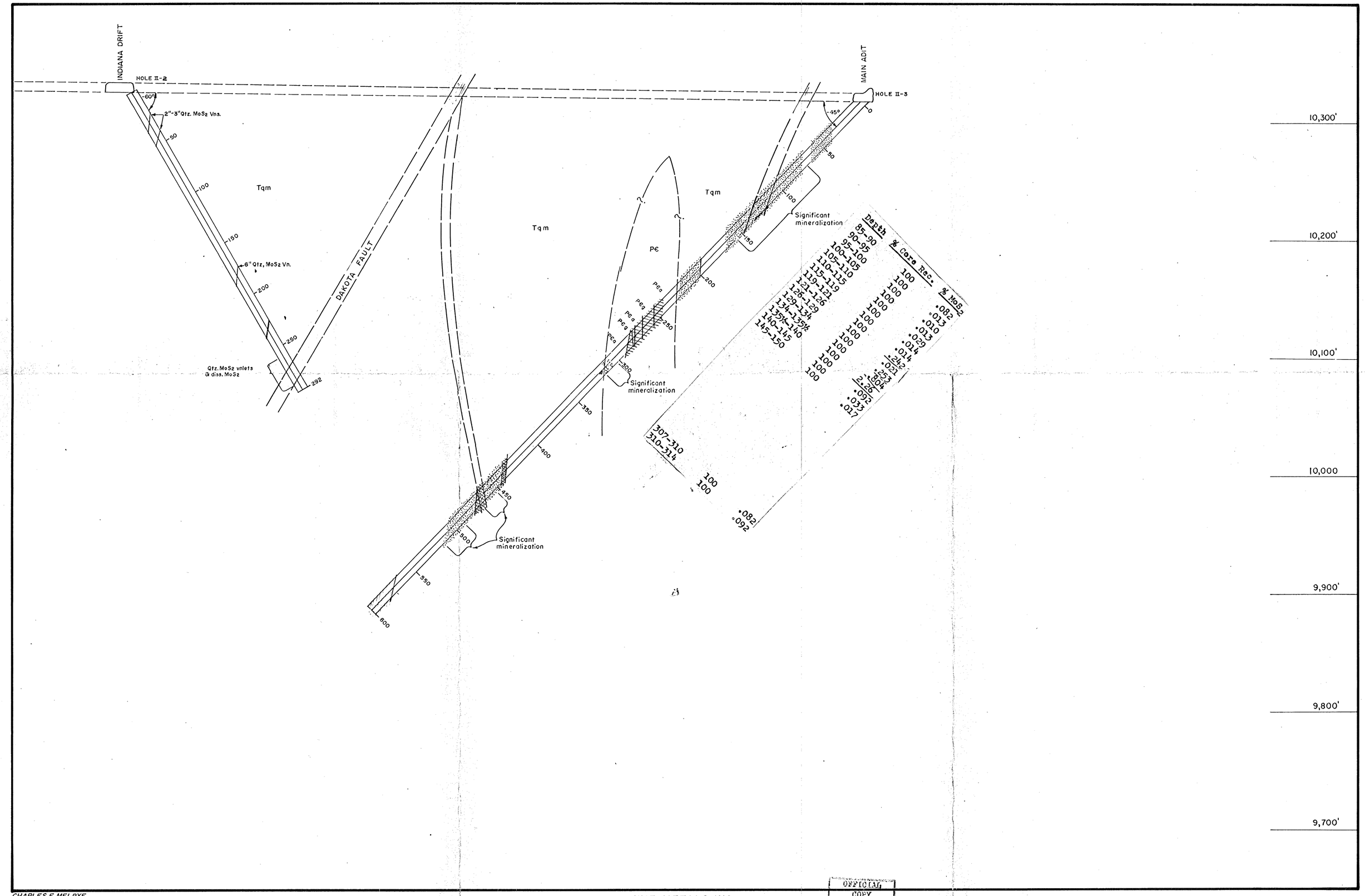

CHARLES E. MELBYE
Geological Engineer

NYE METALS INC.

GEOLOGIC-ASSAY CROSS-SECTION

DRILL HOLE II-3 & II-2

Scale 1" = 50' Elev. 10,326'
Section Looking East
May 1963 Aug. 1964

Docket No. 6231
Contract No. 2149

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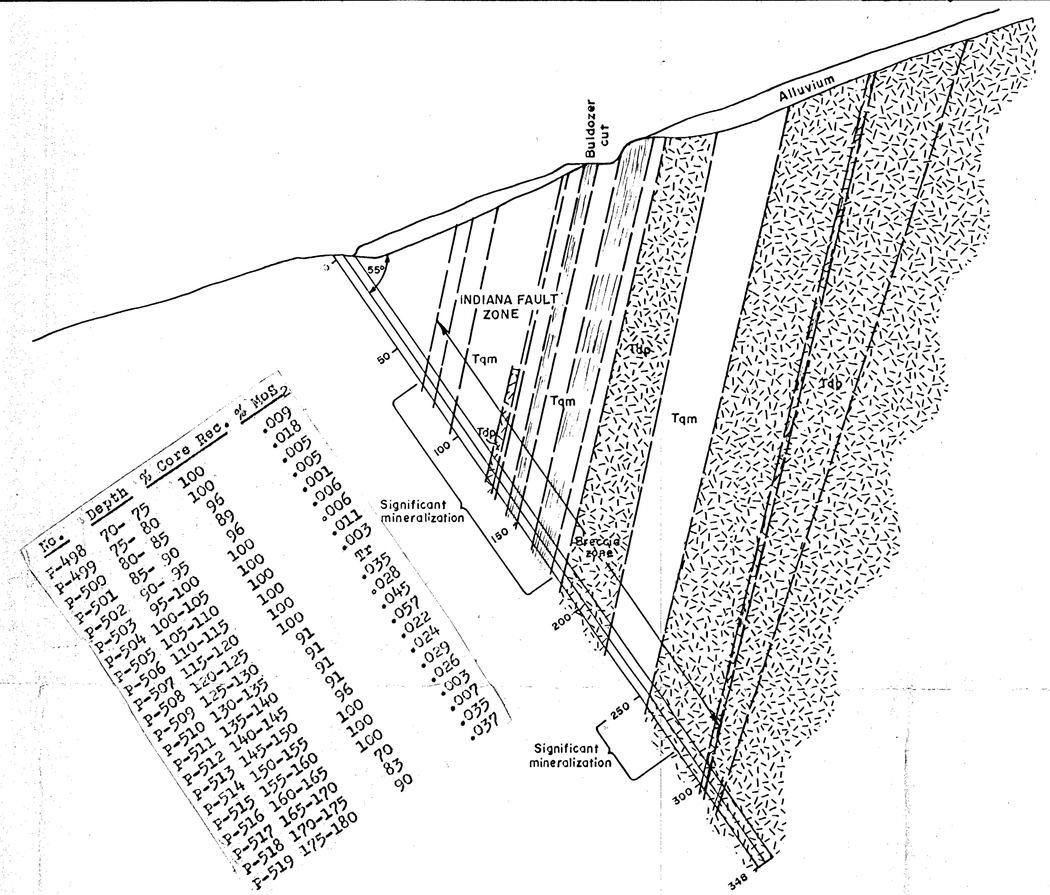


No.	Depth	% Core Rec.	% MoS2
P-498	70- 75	100	.009
P-499	75- 80	100	.018
P-500	80- 85	96	.009
P-501	85- 90	89	.009
P-502	90- 95	96	.001
P-503	95-100	100	.006
P-504	100-105	100	.006
P-505	105-110	100	.011
P-506	110-115	100	.003
P-507	115-120	91	tr
P-508	120-125	91	.035
P-509	125-130	91	.028
P-510	130-135	91	.045
P-511	135-140	96	.057
P-512	140-145	100	.022
P-513	145-150	100	.024
P-514	150-155	100	.029
P-515	155-160	70	.026
P-516	160-165	83	.003
P-517	165-170	90	.007
P-518	170-175		.035
P-519	175-180		.037

10,600
10,500
10,400
10,300
10,200
10,100
10,000

CHARLES E. MELBYE
Geological Engineer

NYE METALS INC.

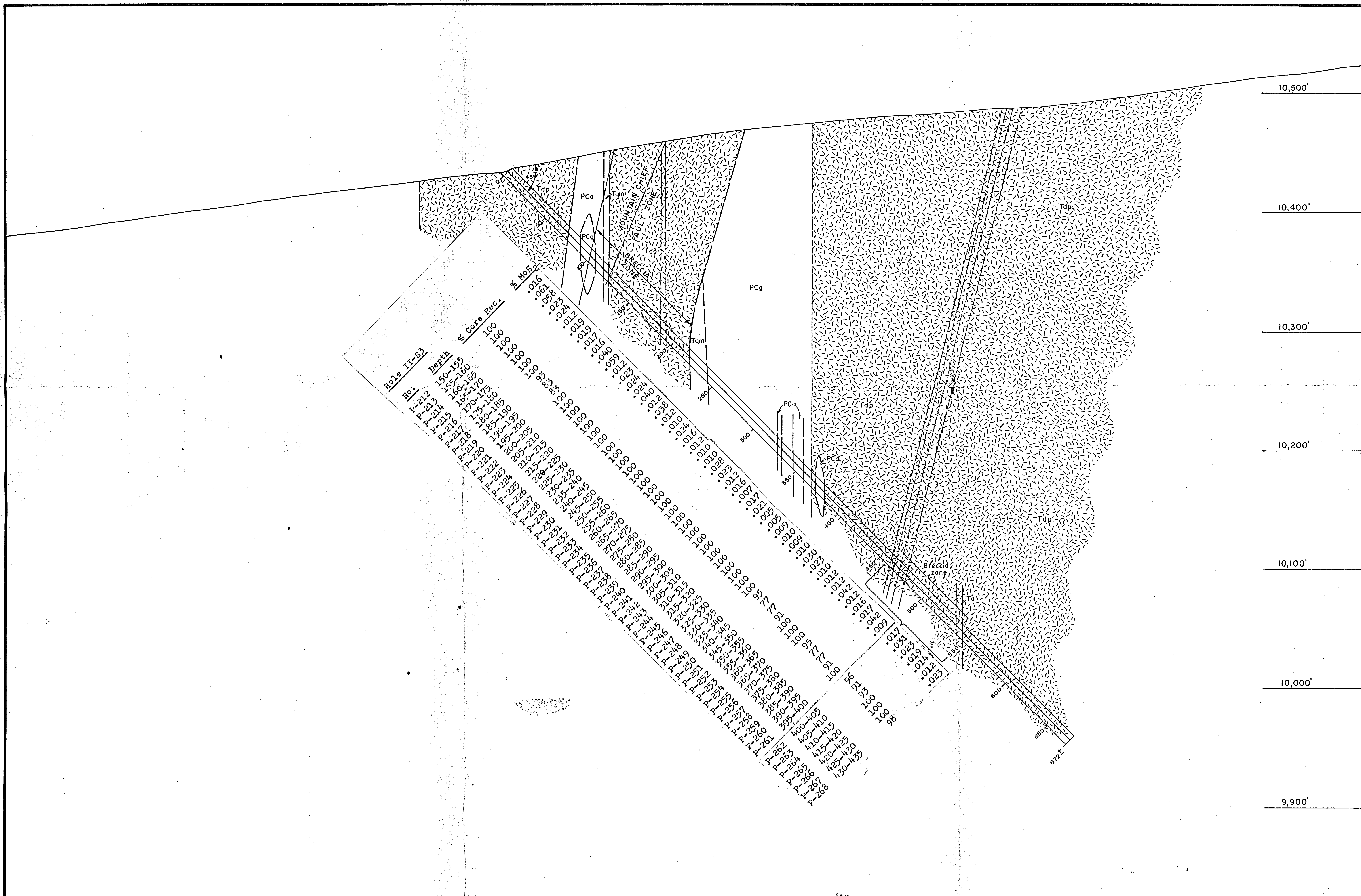
GEOLOGIC-ASSAY CROSS-SECTION
DRILL HOLE NO. II-S5

Scale 1"=50' Elev. 10,508'

N 7°W Section Looking North

October 1963

Docket No. 6231
Contract No. 2149



No.	Depth	% Core Rec.	% MoS_2
P-212	150-155	100	.016
P-213	155-160	100	.061
P-214	160-165	100	.058
P-215	165-170	100	.023
P-216	170-175	100	.024
P-217	175-180	100	.012
P-218	180-185	93	.019
P-219	185-190	83	.019
P-220	190-195	100	.017
P-221	195-200	100	.016
P-222	200-205	100	.040
P-223	205-210	100	.059
P-224	210-215	100	.012
P-225	215-220	100	.023
P-226	220-225	100	.024
P-227	225-230	100	.024
P-228	230-235	100	.040
P-229	235-240	100	.012
P-230	240-245	100	.038
P-231	245-250	100	.012
P-232	250-255	100	.010
P-233	255-260	100	.024
P-234	260-265	100	.016
P-235	265-270	100	.012
P-236	270-275	100	.010
P-237	275-280	100	.010
P-238	280-285	100	.028
P-239	285-290	100	.023
P-240	290-295	100	.012
P-241	295-300	100	.016
P-242	300-305	100	.007
P-243	305-310	100	.017
P-244	310-315	100	.021
P-245	315-320	100	.005
P-246	320-325	100	.005
P-247	325-330	100	.009
P-248	330-335	100	.010
P-249	335-340	100	.009
P-250	340-345	95	.010
P-251	345-350	77	.030
P-252	350-355	77	.023
P-253	355-360	91	.010
P-254	360-365	100	.012
P-255	365-370	100	.012
P-256	370-375	100	.042
P-257	375-380	95	.012
P-258	380-385	77	.016
P-259	385-390	77	.017
P-260	390-395	91	.042
P-261	395-400	100	.009
P-262	400-405	96	.017
P-263	405-410	91	.031
P-264	410-415	93	.023
P-265	415-420	100	.019
P-266	420-425	100	.014
P-267	425-430	100	.012
P-268	430-435	98	.023

Hole II-S3

CHARLES E. MELBYE
Geological Engineer

NYE METALS INC.

GEOLOGIC-ASSAY CROSS-SECTION

DRILL HOLE II-S3

Scale 1"=50' Elev. 10,435'
N-S Section Looking East
October 1963

Docket No. 6231
Contract No. 2149

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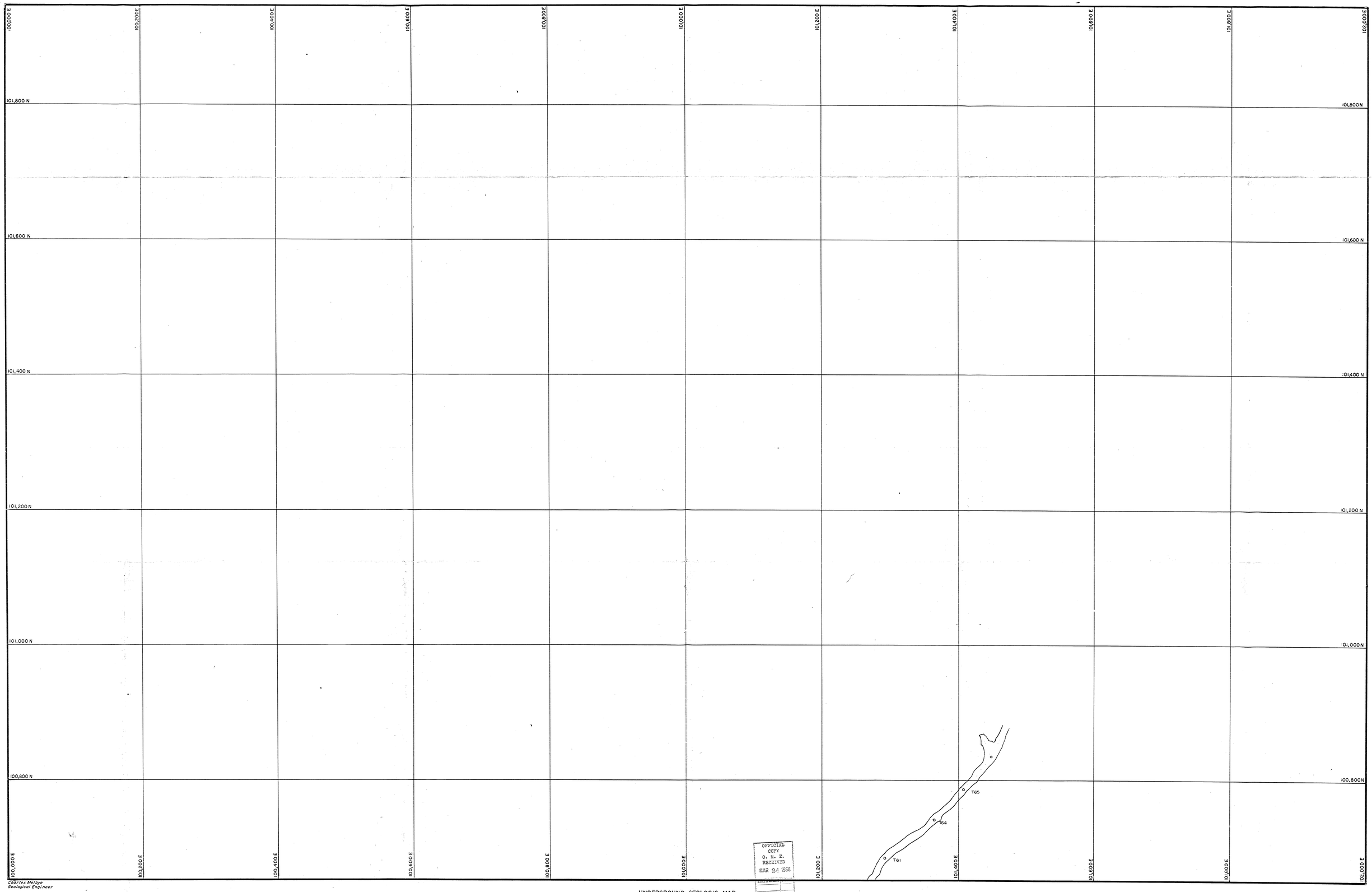

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Charles Melaye
Geological Engineer

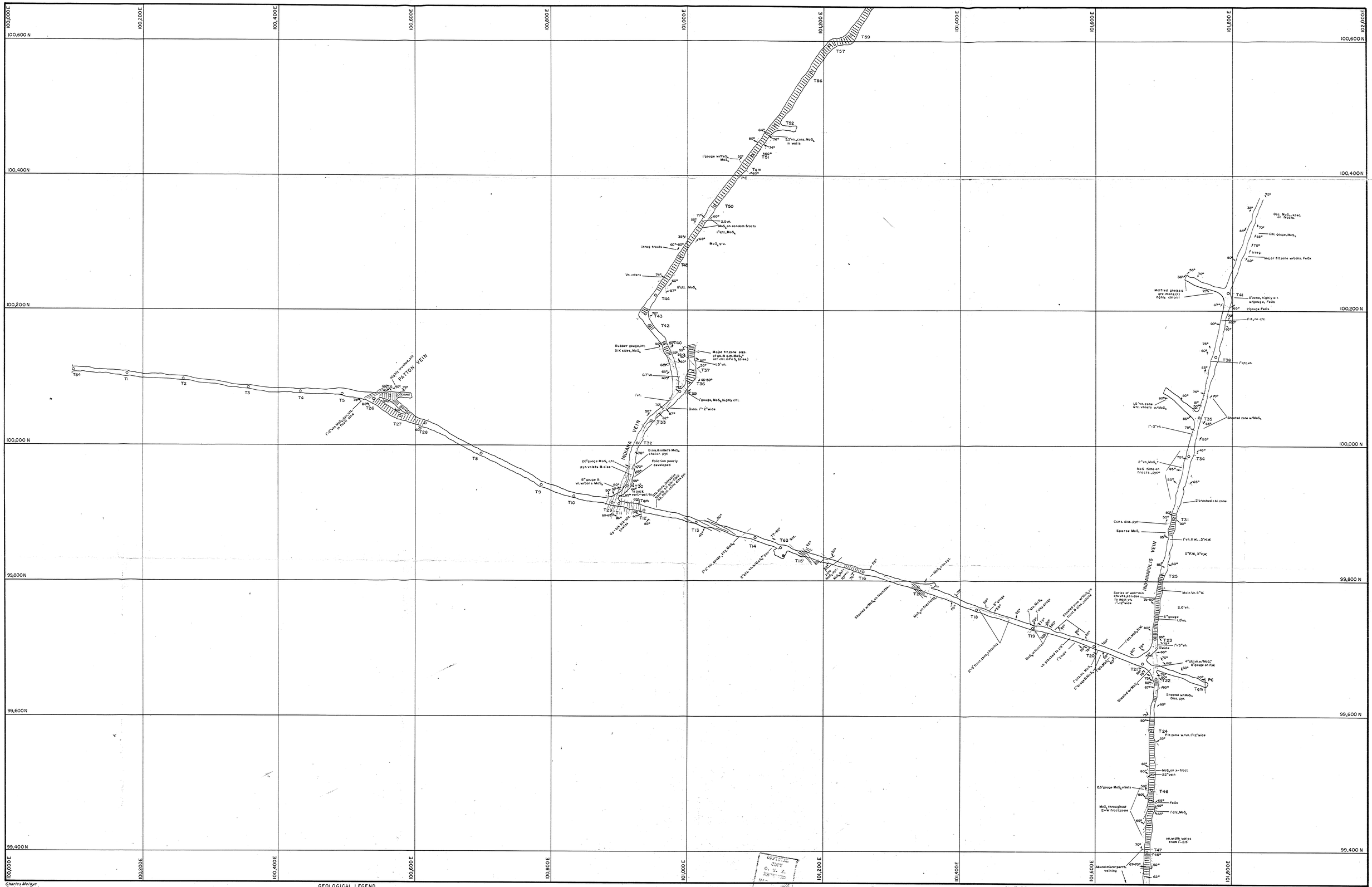
UNDERGROUND GEOLOGIC MAP

NYE MINE

NORTH GILPIN COUNTY DISTRICT

COLORADO

Scale: 1" = 50' January, 1963



Charles Melbye
Geological Engineer

GEOLOGICAL LEGEND

- Tertiary Dacite porphyry
- Tertiary Aplite
- Tertiary Quartz Monzonite
- Pre-Cambrian Alaskite
- Pre-Cambrian Quartz-biotite gneiss
- Molybdenum mineralization
- Fault
- Contact
- 60° Dip and strike (faults and veins)
- 60° Dip and strike (gneiss foliation and joints)
- Quartz Vein

UNDERGROUND GEOLOGIC MAP

NYE MINE

NORTH GILPIN COUNTY DISTRICT

COLORADO

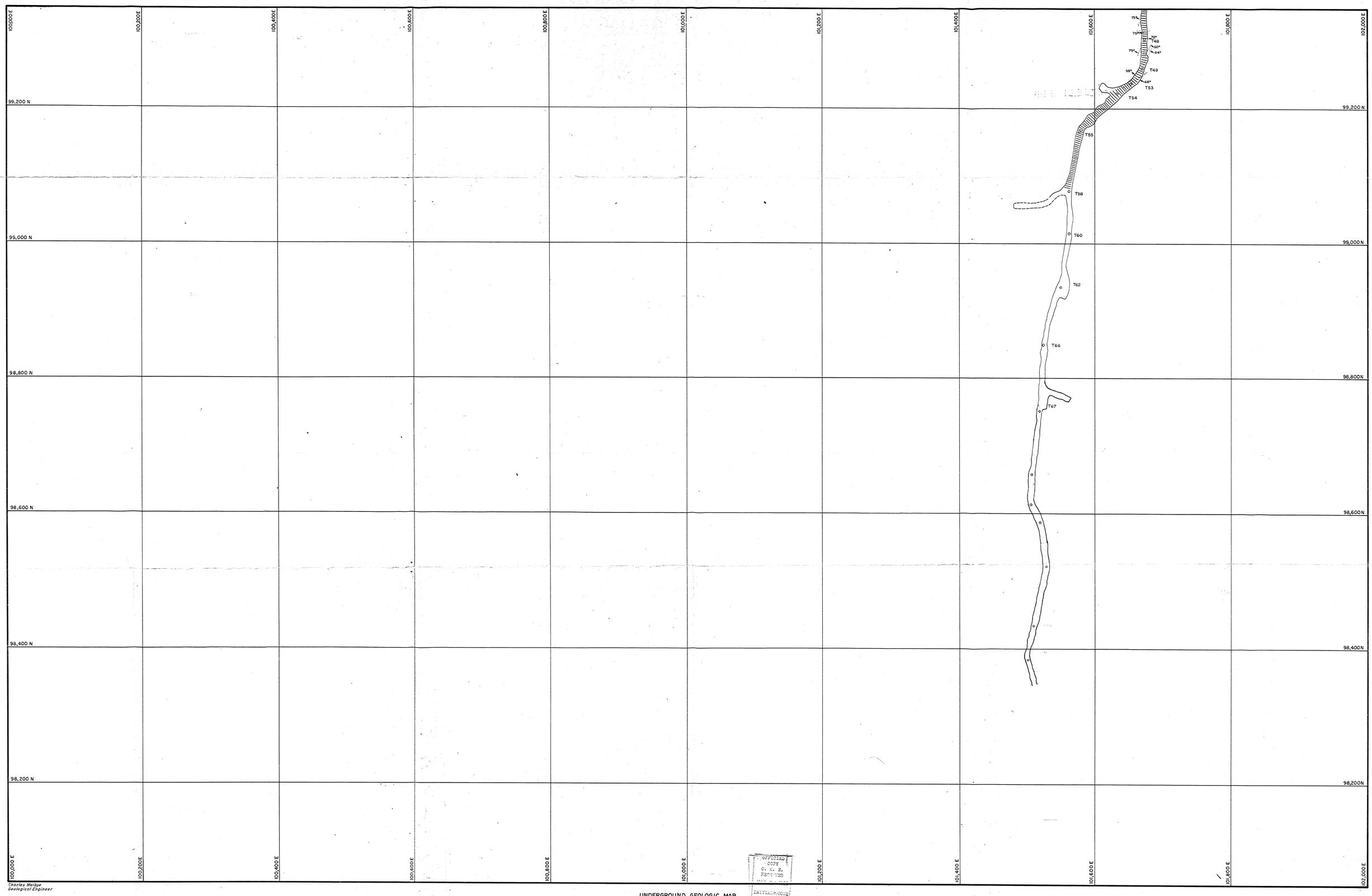
Scale: 1" = 50' March, 1962

REV.
Dec. 1962 Apr. 1963

GEOLOGICAL SURVEY COPY
U. S. D. I.
FORM 9-1000
1-57
GPO 16-35-1
GEOLOGICAL SURVEY
DENVER, COLORADO

CULTURE LEGEND

- Topographic contour
- Survey station
- Shaft
- Tunnel or adit
- Timbered and lagged drift



Charles Melaye
Geological Engineer

UNDERGROUND GEOLOGIC MAP

NYE MINE

NORTH GILPIN COUNTY DISTRICT

COLORADO

Scale: 1" = 50' January, 1963

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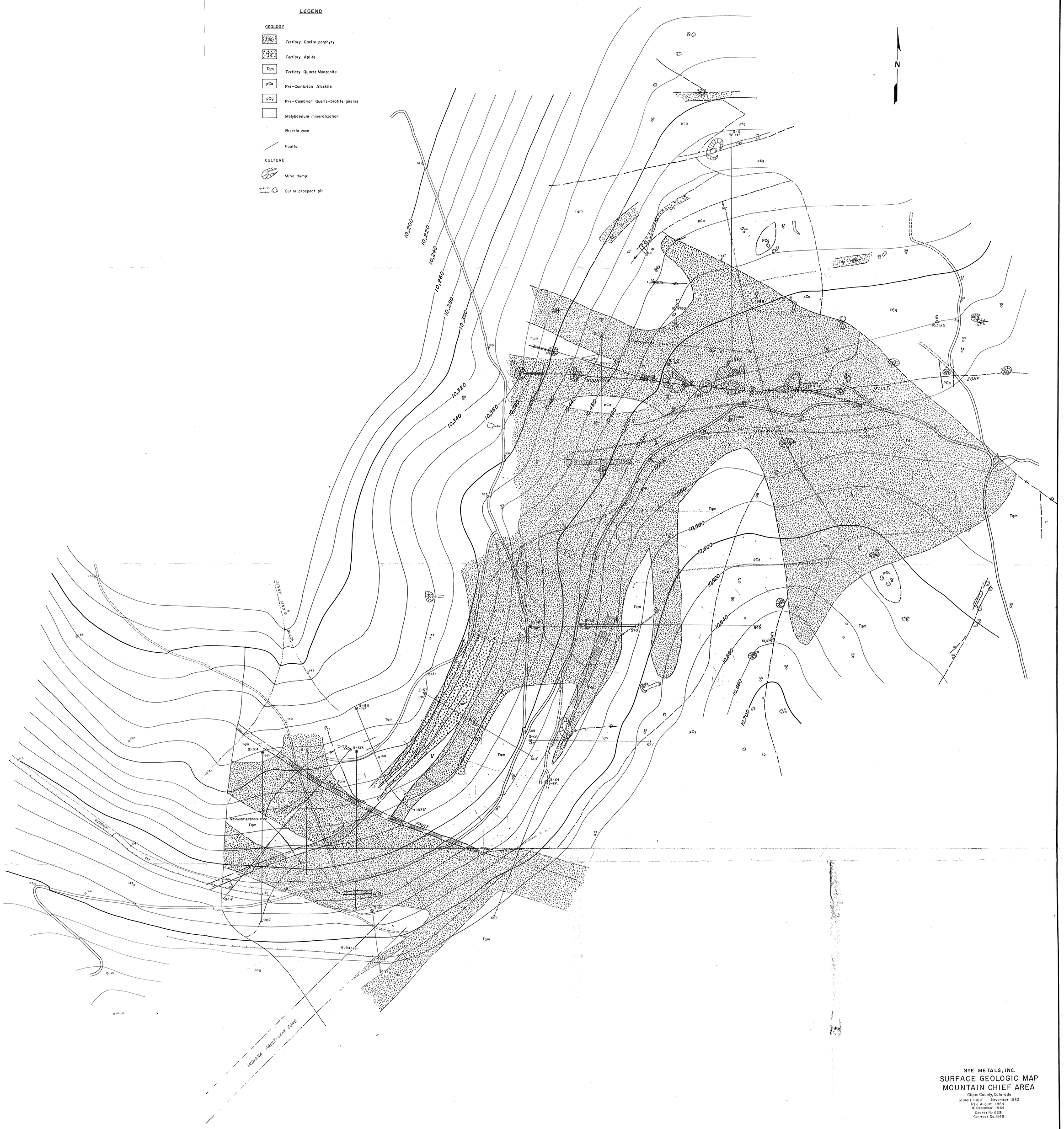
INITIAL RECORD



NYE METALS, INC.

SURFACE GEOLOGIC MAP

MOUNTAIN CHIEF AREA

Gilpin County, Colorado

Scale: 1" = 100' November 1963

Rev. August 1964

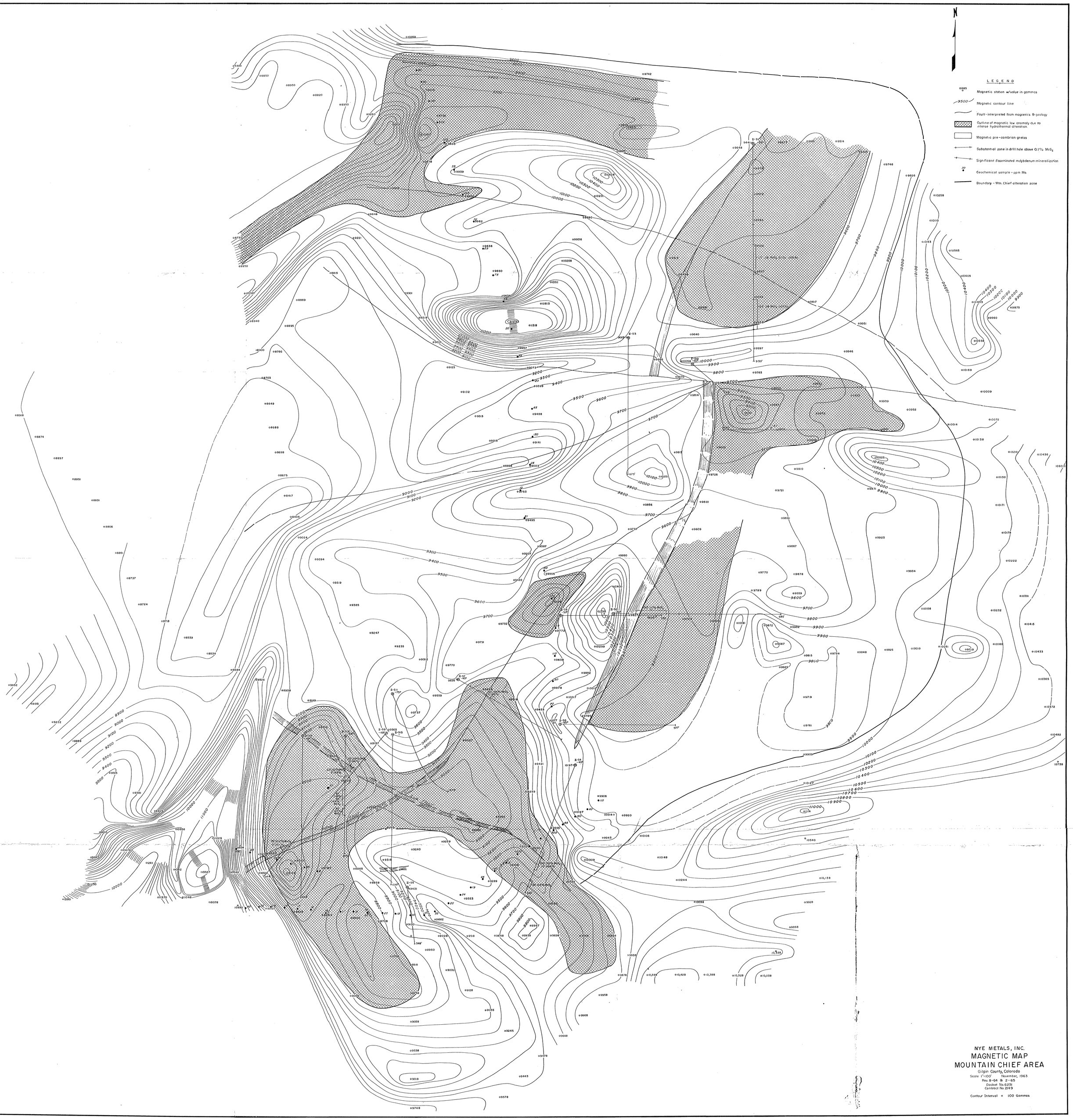
9 December 1964

Docket No. 6231

Contract No. 2149

CHARLES E. MELBYE

Geological Engineer



NYE METALS, INC.

MAGNETIC MAP

MOUNTAIN CHIEF AREA

Gilpin County, Colorado

Scale 1"=100' November, 1963

Rev. 8-64 & 2-65

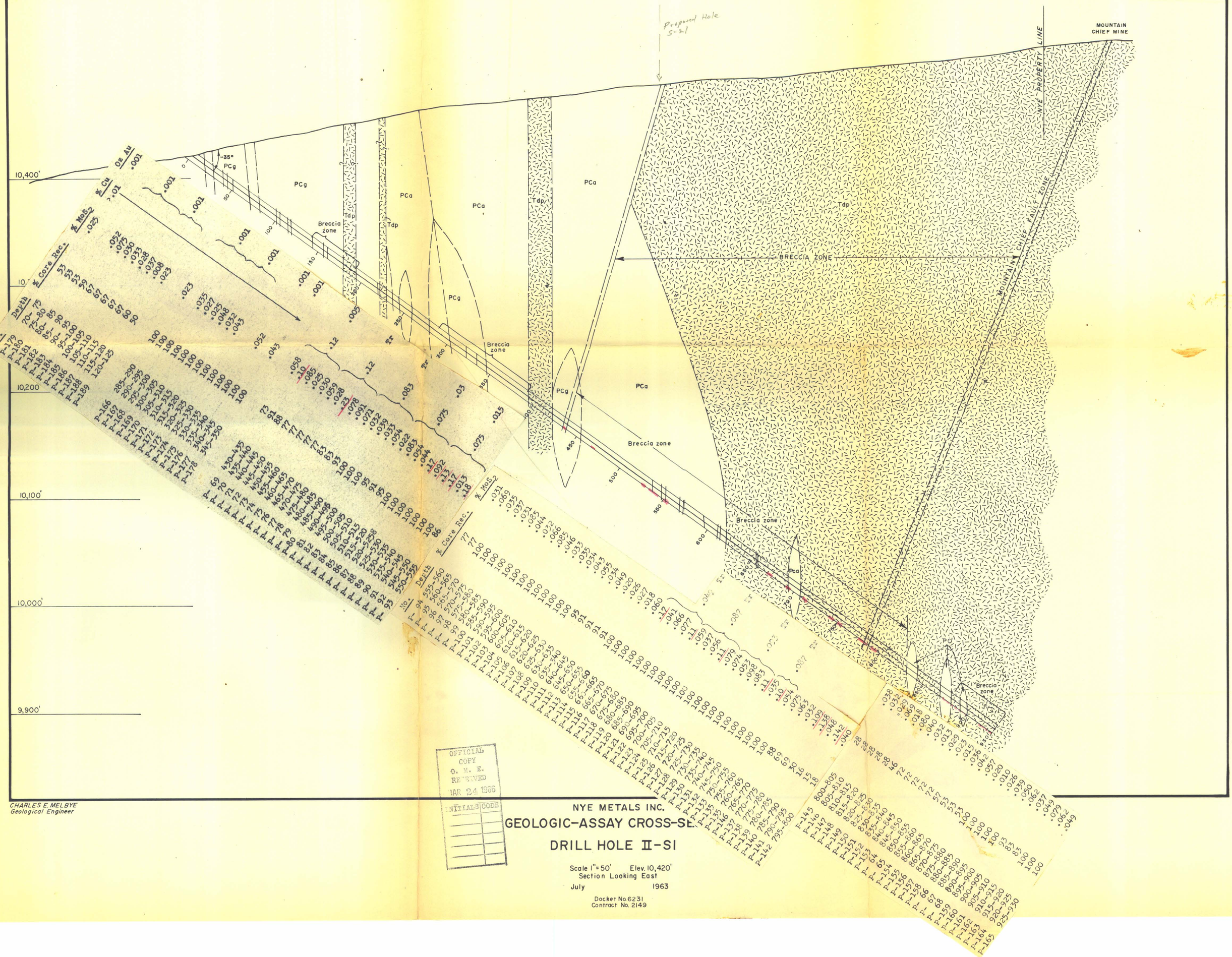
Docket No. 6231

Contract No. 2149

Contour Interval = 100 Gammas

CHARLES E. MELBYE

Geological Engineer



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CHARLES E. MELBYE
Geological Engineer

NYE METALS INC.

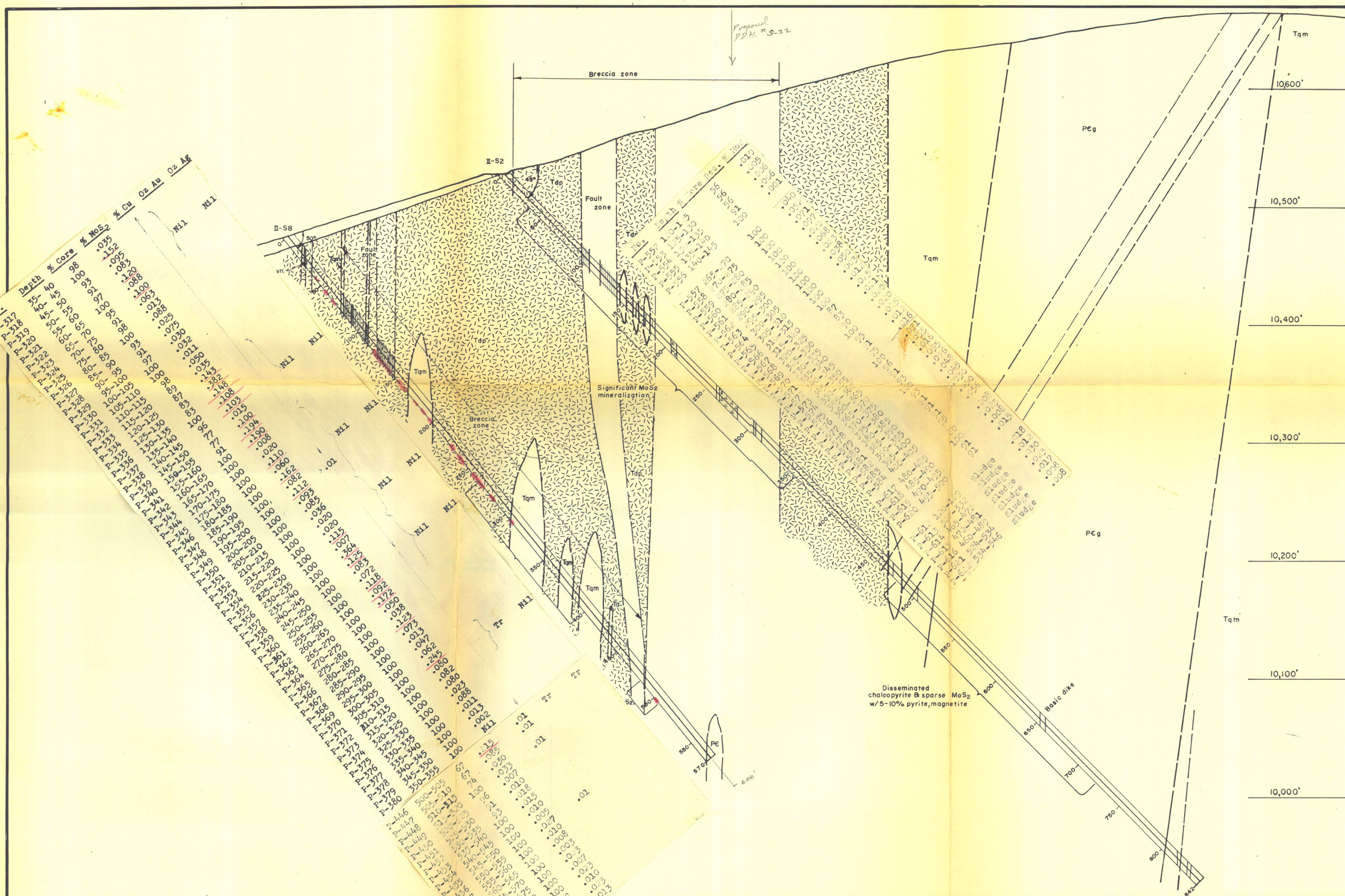
GEOLOGIC-ASSAY CROSS-SE

DRILL HOLE II-SI

Scale 1"=50' Elev. 10,420'
Section Looking East

July 1963

Docket No. 6231
Contract No. 2149



No.	Depth	% Core	% MoS2	% Cu	Oz Au	Oz Ag
P-317	35- 40	98	.035			
P-318	40- 45	100	.152			
P-319	45- 50	93	.095			
P-320	50- 55	91	.083		Nil	Nil
P-321	55- 60	97	.120			
P-322	60- 65	100	.088			
P-323	65- 70	95	.100			
P-324	70- 75	91	.063			
P-325	75- 80	98	.013			
P-326	80- 85	100	.088			
P-327	85- 90	93	.025			
P-328	90- 95	91	.075			
P-329	95-100	97	.030			
P-330	100-105	100	.032			
P-331	105-110	100	.011			
P-332	110-115	98	.050			
P-333	115-120	89	.035			
P-334	120-125	87	.143			
P-335	125-130	83	.382			
P-336	130-135	83	.148			
P-337	135-140	100	.108			
P-338	140-145	96	.103		Nil	Nil
P-339	145-150	77	.015			
P-340	150-155	77	.100			
P-341	155-160	91	.194			
P-342	160-165	100	.190			
P-343	165-170	100	.008			
P-344	170-175	100	.020			
P-345	175-180	100	.110			
P-346	180-185	100	.060			
P-347	185-190	100	.162		Nil	Nil
P-348	190-195	100,	.082	.01		
P-349	195-200	100	.112			
P-350	200-205	100	.093			
P-351	205-210	100	.085			
P-352	210-215	100	.036			
P-353	215-220	100	.020		Nil	Nil
P-354	220-225	100	.020			
P-355	225-230	100	.115			
P-356	230-235	100	.007			
P-357	235-240	100	.364			
P-358	240-245	100	.125			
P-359	245-250	100	.083			
P-360	250-255	100	.072		Nil	Nil
P-361	255-260	100	.118			
P-362	260-265	100	.092			
P-363	265-270	100	.172			
P-364	270-275	100	.050			
P-365	275-280	100	.038			
P-366	280-285	100	.123			
P-367	285-290	100	.073			
P-368	290-295	100	.013			
P-369	295-300	100	.047			
P-370	300-305	100	.062			
P-371	305-310	100	.245			
P-372	310-315	100	.080			
P-373	315-320	100	.082			
P-374	320-325	100	.080			
P-375	325-330	100	.023			
P-376	330-335	100	.088		Tr	Nil
P-377	335-340	100	.011			
P-378	340-345	100	.013			
P-379	345-350	100	.002			
P-380	350-355	100	Nil			

P-446	500-505	67	.215	.01	Tr	Tr
P-447	505-510	67	.085	.01		
P-448	510-515	74	.030			
P-449	515-520	100	.033	.01		
P-450	520-525	96	.007			
P-451	525-530	91	.010			
P-452	530-535	93	.018			
P-453	535-540	100	.015			
P-454	540-545	100	.010			
P-455	545-550	100	.005			
P-456	550-555	100	.027	.01		
P-457	555-560	100	.010			
P-458	560-565	100	.008			
P-459	565-570	100	.003			
P-460	570-575	100	.023			
P-461	575-580	100	.007			
P-462	580-585	100	.023			
P-463	585-590	100	.010			
P-464	590-595	100	.023			
P-465	595-600	100	.013			

No.	Depth	% Core Rec.	% MoS2
P-552	120-125	56	.010
P-553	125-130	56	.005
P-554	130-135	56	.006
P-555	135-140	91	.006
P-556	140-145	100	.001
P-557	265-270	100	.040
P-558	270-275	100	.052
P-559	275-280	100	.071
P-560	280-285	100	.097
P-561	285-290	100	.022
P-562	290-295	100	.068
P-563	295-300	100	.023
P-564	300-305	100	.038
P-565	305-310	100	.050
P-566	310-315	100	.003
P-567	315-320	87	.012
P-568	320-325	83	.025
P-569	325-330	90	.011
P-570	330-335	100	.020
P-571	335-340	95	.020
P-572	340-345	91	.015
P-573	345-350	95	.012
P-574	350-355	100	.016
P-575	355-360	96	.071
P-576	360-365	91	.055
P-577	365-370	93	.016
P-578	370-375	100	.035
P-579	375-380	93	.076
P-580	380-385	91	.048
P-581	385-390	91	.045
P-582	390-395	95	.030
P-583	395-400	[illegible]	.050
P-584	400-405	[illegible]	.056
P-617	480-485	[illegible]	.008
P-618	485-490	100	.023
P-619	490-495	91	.008
P-620	495-500	91	.015
P-612	120-129	Sludge	.018
P-613	[illegible]-332	Sludge	.012
P-614	465-472	Sludge	.030
P-615	472-481	Sludge	.023
P-616	460-489	Sludge	.017
P-621	524-534	Sludge	.008
P-622	534-546	Sludge	.008

CHARLES E. MELBYE
Geological Engineer

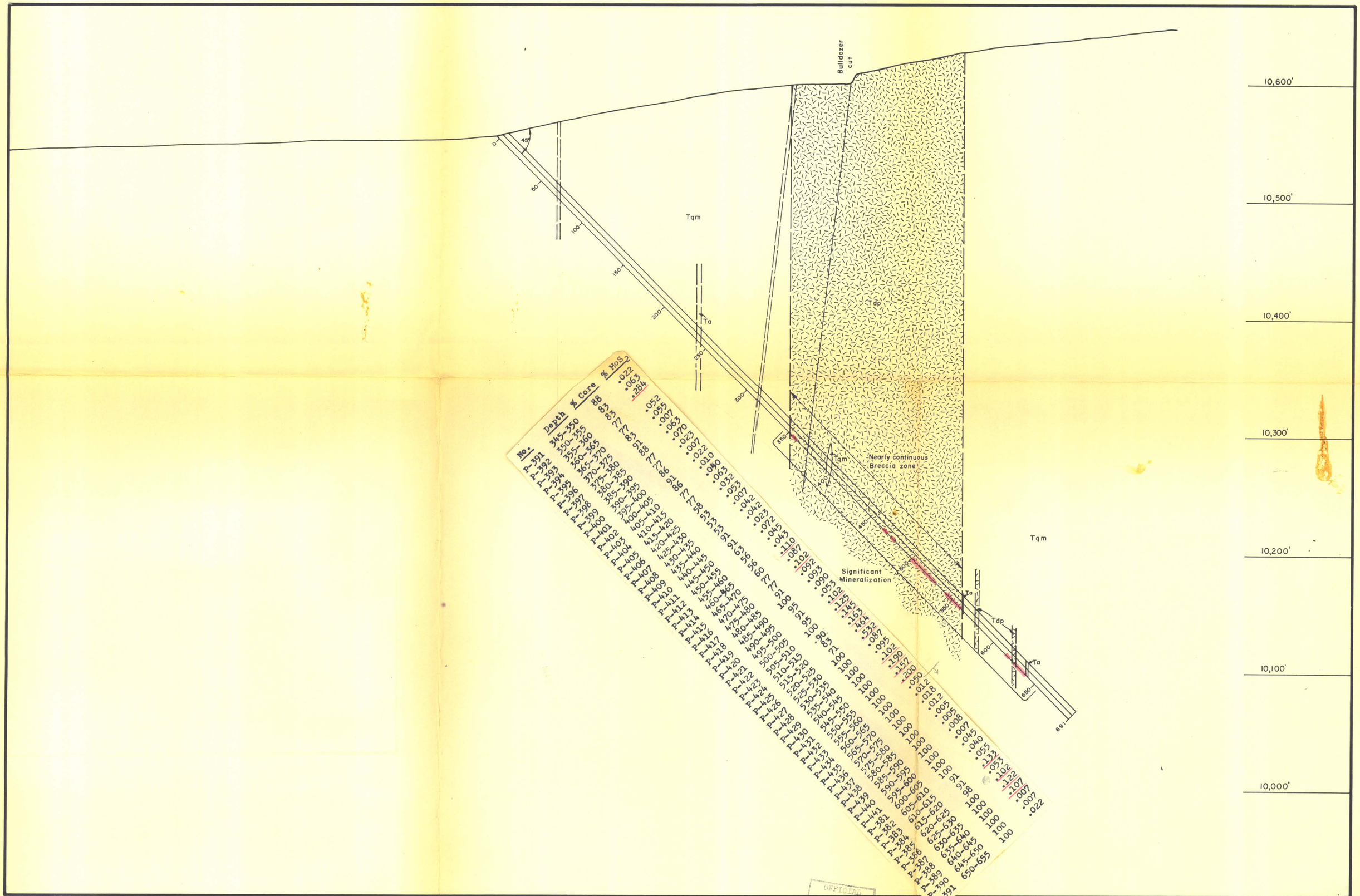
NYE METALS INC.

GEOLOGIC-ASSAY CROSS-SECTION

DRILL HOLE NO. II-S2 & II-S8

Scale 1" = 50' Elev. 10,527'
E-W Section Looking North
September 1963

Docket No. 6231
Contract No. 2149



No.	Depth	% Core	% MoS2
P-391	345-350	88	.022
P-392	350-355	83	.063
P-393	355-360	83	.284
P-394	360-365	77	
P-395	365-370	77	
P-396	370-375	83	
P-397	375-380	91	
P-398	380-385	88	.052
P-399	385-390	77	.055
P-400	390-395	77	.007
P-401	395-400	86	.063
P-402	400-405	91	.070
P-403	405-410	86	.023
P-404	410-415	77	.007
P-405	415-420	77	.022
P-406	420-425	58	.010
P-407	425-430	53	.040
P-408	430-435	53	.063
P-409	435-440	53	.032
P-410	440-445	91	.053
P-411	445-450	63	.007
P-412	450-455	56	.042
P-413	455-460	56	.042
P-414	460-465	77	.023
P-415	465-470	77	.072
P-416	470-475	91	.045
P-417	475-480	100	.043
P-418	480-485	95	.110
P-419	485-490	91	.087
P-420	490-495	95	.102
P-421	495-500	100	.092
P-422	500-505	90	.093
P-423	505-510	83	.090
P-424	510-515	71	.033
P-425	515-520	100	.102
P-426	520-525	100	.125
P-427	525-530	100	.145
P-428	530-535	100	.163
P-429	535-540	100	.464
P-430	540-545	100	.532
P-431	545-550	100	.087
P-432	550-555	100	.095
P-433	555-560	100	.102
P-434	560-565	100	.190
P-435	565-570	100	.157
P-436	570-575	100	.200
P-437	575-580	100	.050
P-438	580-585	100	.012
P-439	585-590	100	.018
P-440	590-595	100	.012
P-441	595-600	100	.005
P-381	600-605	100	.005
P-382	605-610	100	.008
P-383	610-615	100	.007
P-384	615-620	100	.045
P-385	620-625	100	.040
P-386	625-630	100	.055
P-387	630-635	100	.133
P-388	635-640	91	.053
P-389	640-645	91	.102
P-390	645-650	98	.122
P-391	650-655	100	.107
		100	.007
		100	.007
		100	.022

CHARLES E. MELBYE
Geological Engineer

NYE METALS INC.

GEOLOGIC-ASSAY CROSS-SECTION

DRILL HOLE II-S4

Scale: 1" = 50' Elev. 10,555'
S 22° W Section Looking West
September 1963

Docket No 6231
Contract No. 2149

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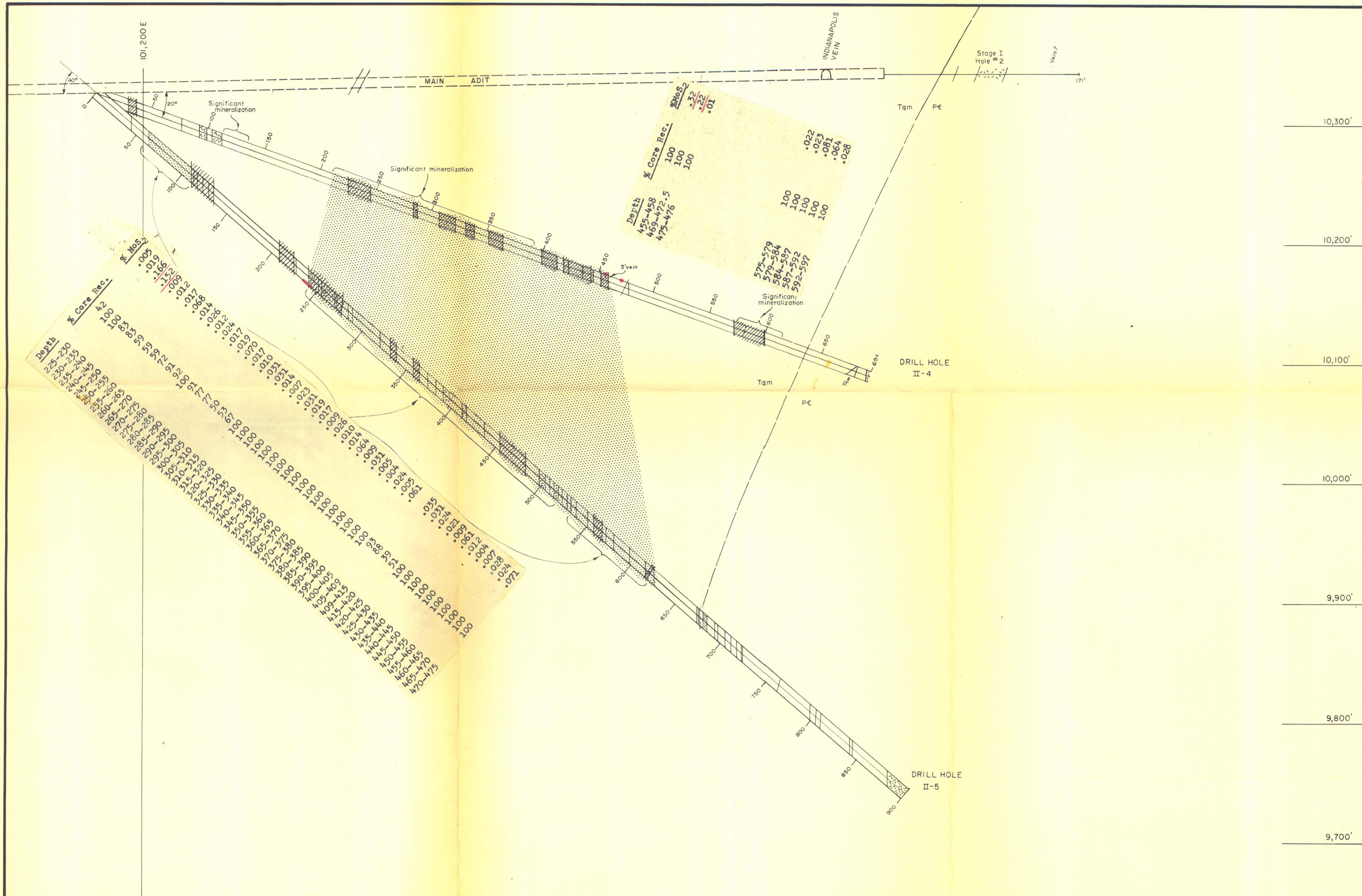


Depth	% Core Rec.	% MoS_2
225-230	42	.005
230-235	100	.019
235-240	100	.166
240-245	83	.152
245-250	83	.009
250-255	59	.012
255-260	59	.017
260-265	59	.068
265-270	72	.014
270-275	91	.026
275-280	92	.012
280-285	100	.024
285-290	91	.017
290-295	77	.019
295-300	77	.070
300-305	50	.017
305-310	53	.010
310-315	67	.031
315-320	100	.031
320-325	100	.014
325-330	100	.007
330-335	100	.023
335-340	100	.031
340-345	100	.019
345-350	100	.017
350-355	100	.009
355-360	100	.026
360-365	100	.010
365-370	100	.014
370-375	100	.064
375-380	100	.009
380-385	100	.031
385-390	100	.005
390-395	100	.004
395-400	100	.024
400-405	100	.005
405-409	100	.061
409-415	93	
415-420	88	.035
420-425	39	.031
425-430	51	.024
430-435	100	.021
435-440	100	.009
440-445	100	.061
445-450	100	.012
450-455	100	.004
455-460	100	.007
460-465	100	.028
465-470	100	.024
470-475	100	.071

Depth	% Core Rec.	% MoS_2
455-458	100	.32
469-472.5	100	.22
475-476	100	.01
575-579	100	.022
579-584	100	.023
584-587	100	.081
587-592	100	.064
592-597	100	.028

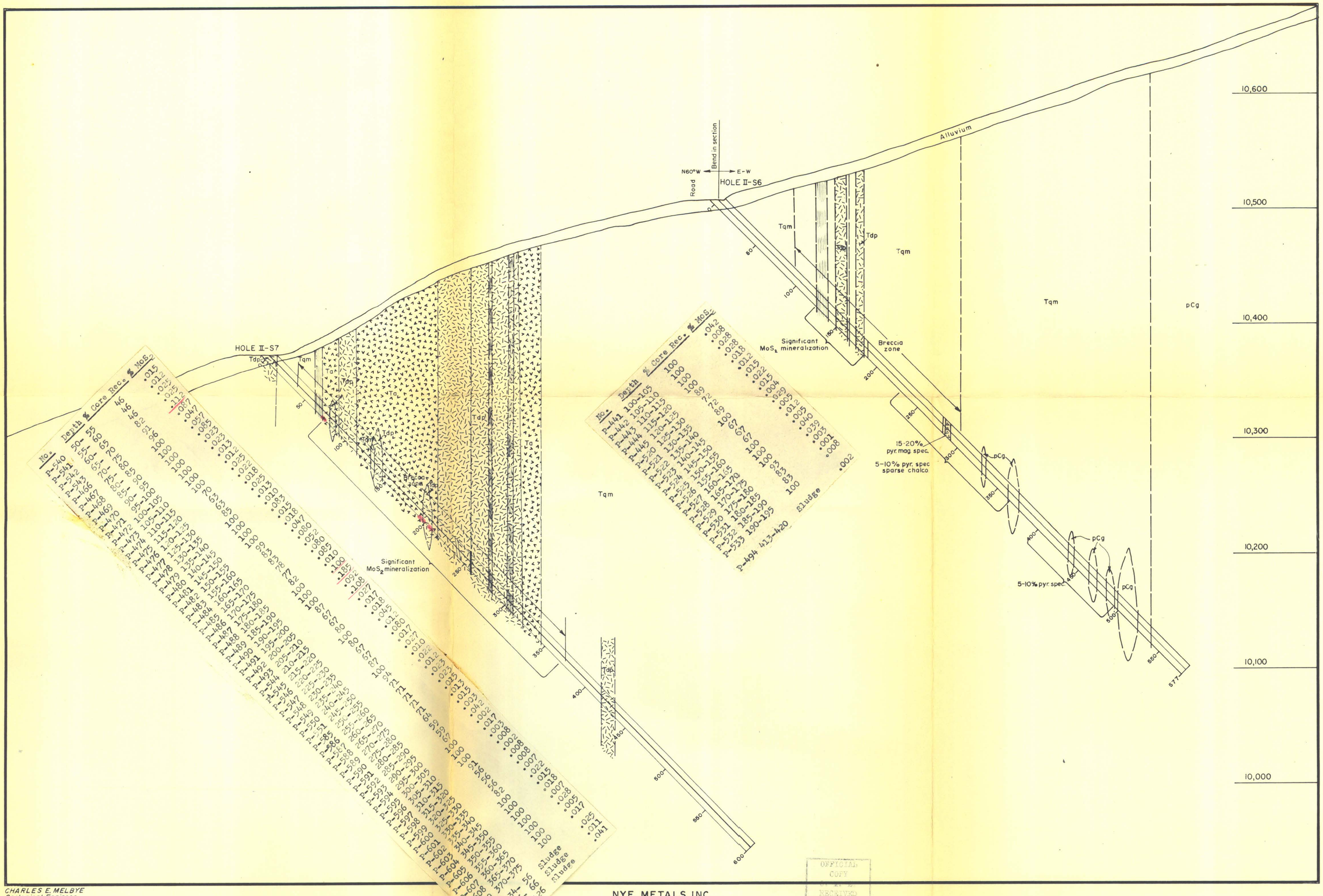
CHARLES E. MELBYE
Geological Engineer

NYE METALS INC.

GEOLOGIC-ASSAY CROSS-SECTION
DRILL HOLE II-4 AND DRILL HOLE II-5

Scale 1" = 50'   Elev. 10,325'
Section Looking North
March 1963

Docket No. 6231
Contract No. 2149



CHARLES E. MELBYE
Geological Engineer

NYE METALS INC.

GEOLOGIC-ASSAY CROSS-SECTION
DRILL HOLE NO. II-S6 & II-S7

Scale 1"=50' Elev. 10,508' & 10,376'

E-W Section Looking North

November 1963

Docket No. 6231
Contract No. 2149

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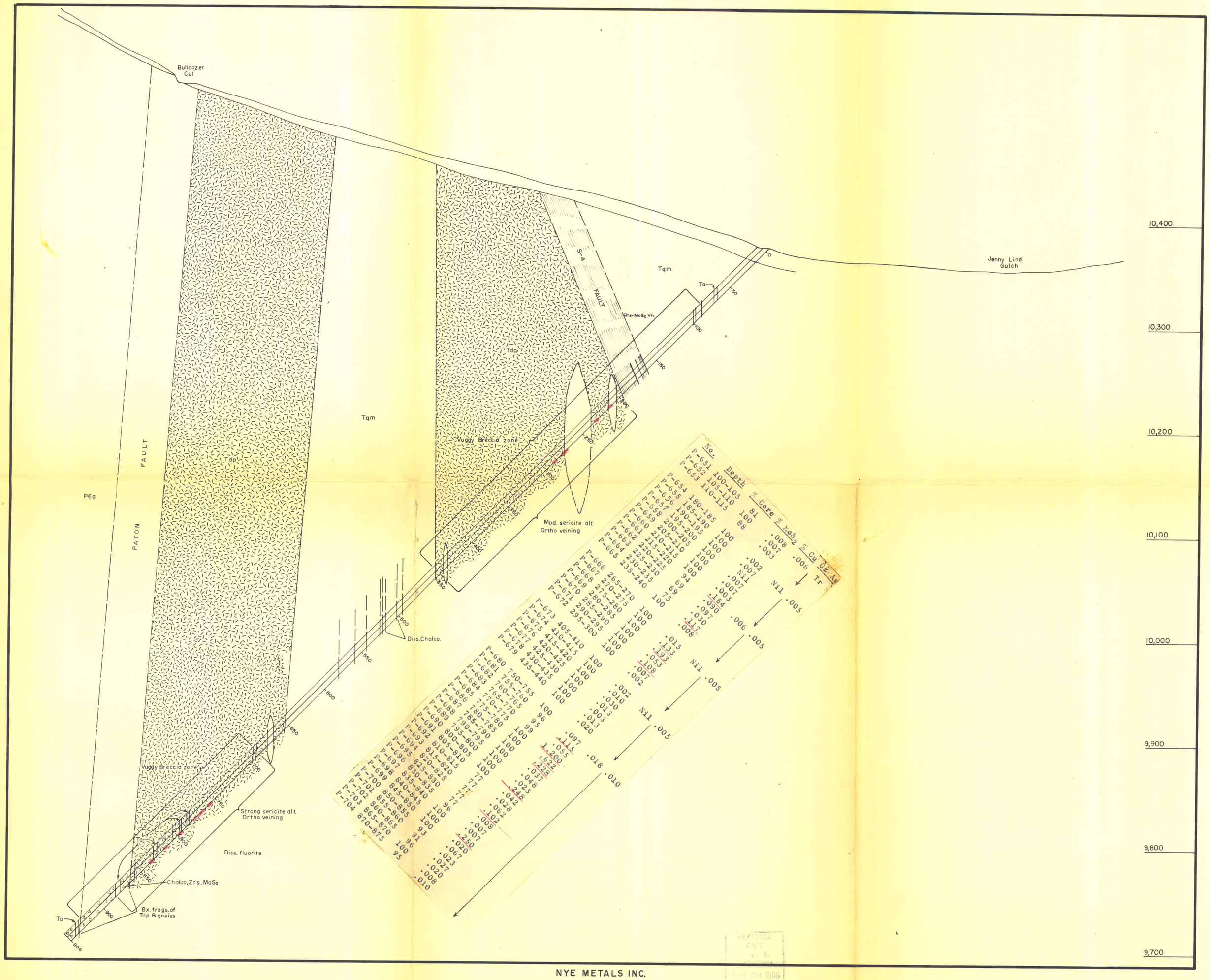
RECEIVED
MAR 24 1966
INITIALS



NYE METALS INC.

GEOLOGIC-ASSAY CROSS-SECTION

DRILL HOLE II-59

Scale: 1" = 50' Elev. 10,380'

N40°E Section Looking N.W

June 1964

Docket No. 6231
Contract No. 2149

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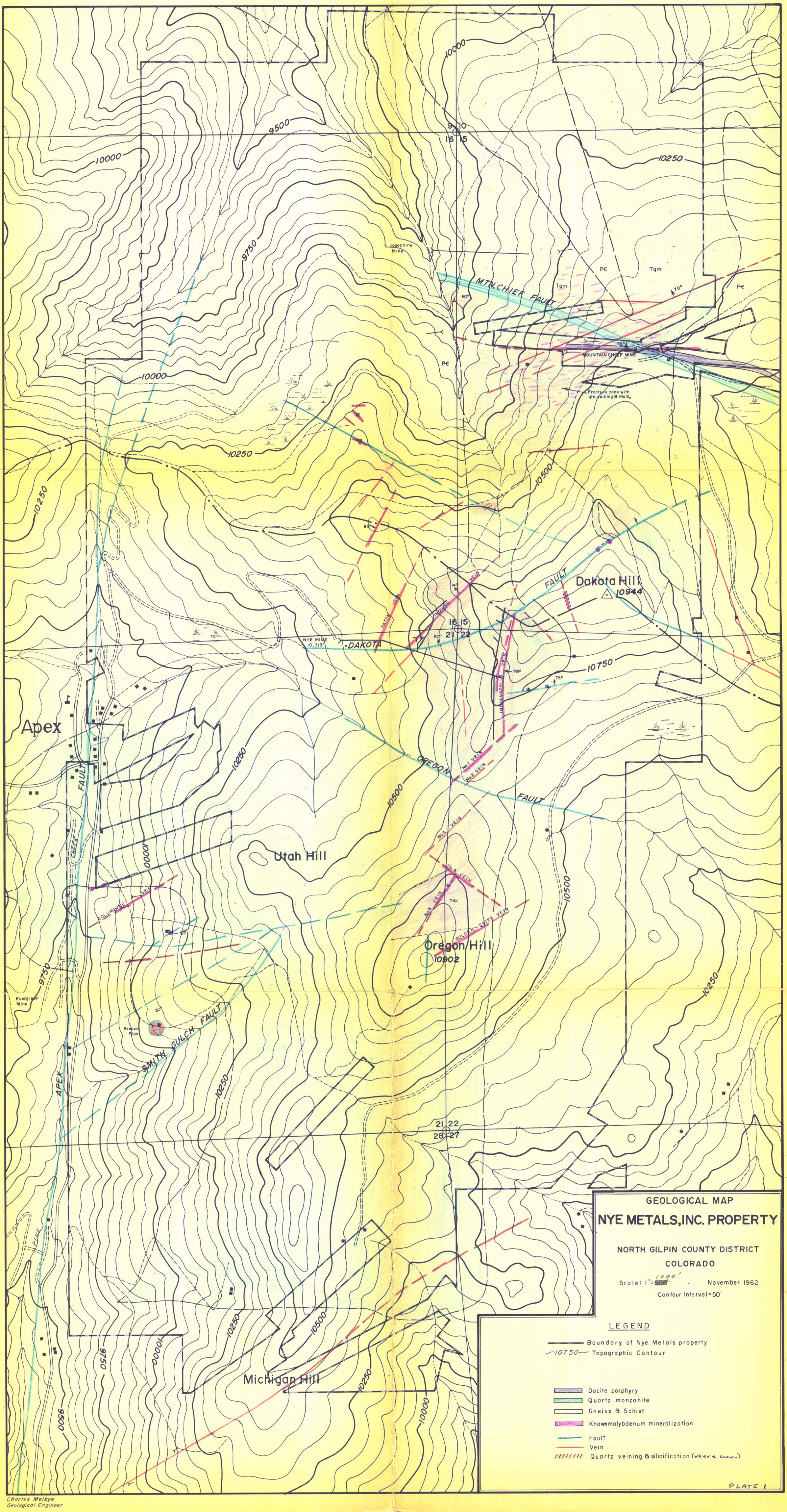
GEOLOGICAL MAP
NYE METALS, INC. PROPERTY
NORTH GILPIN COUNTY DISTRICT
COLORADO
Scale: 1" = 1000'
November 1962
Contour Interval = 50'
LEGEND
Boundary of Nye Metals property
10750 Topographic Contour
Dacite porphyry
Quartz monzonite
Gneiss & Schist
Known molybdenum mineralization
Fault
Vein
Quartz veining & silicification (where known)
PLATE 1
Charles Melbye
Geological Engineer
MTN. CHIEF FAULT
MOUNTAIN CHIEF MINE
Fracture zone with qts. veining & MoS2
Josephine Mine
Dakota Hill
10944
DAKOTA
NYE MINE 10,313'
PATON VEIN
INDIANA VEIN
INDIANAPOLIS VEIN
No.1 VEIN
No.2 VEIN
No.3 VEIN
No.4 VEIN
No.5 VEIN
GOLDEN CHIEF VEIN
OREGON FAULT
Apex
APEX FAULT
Utah Hill
COLUMBINE VEIN
Oregon Hill
10902
Evergreen Mine
Breccia Pipe
SMITH GULCH FAULT
Michigan Hill
PINE CREEK