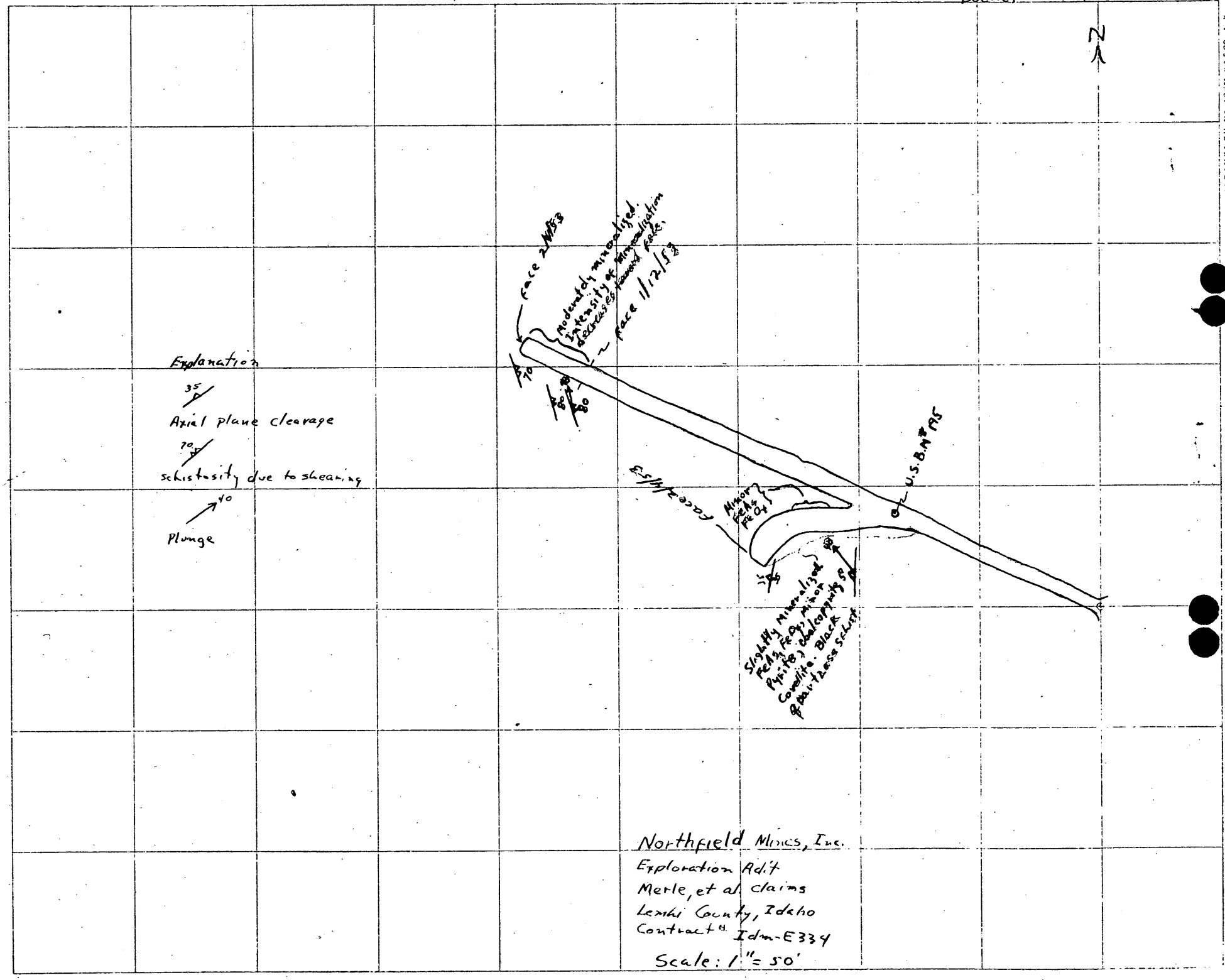
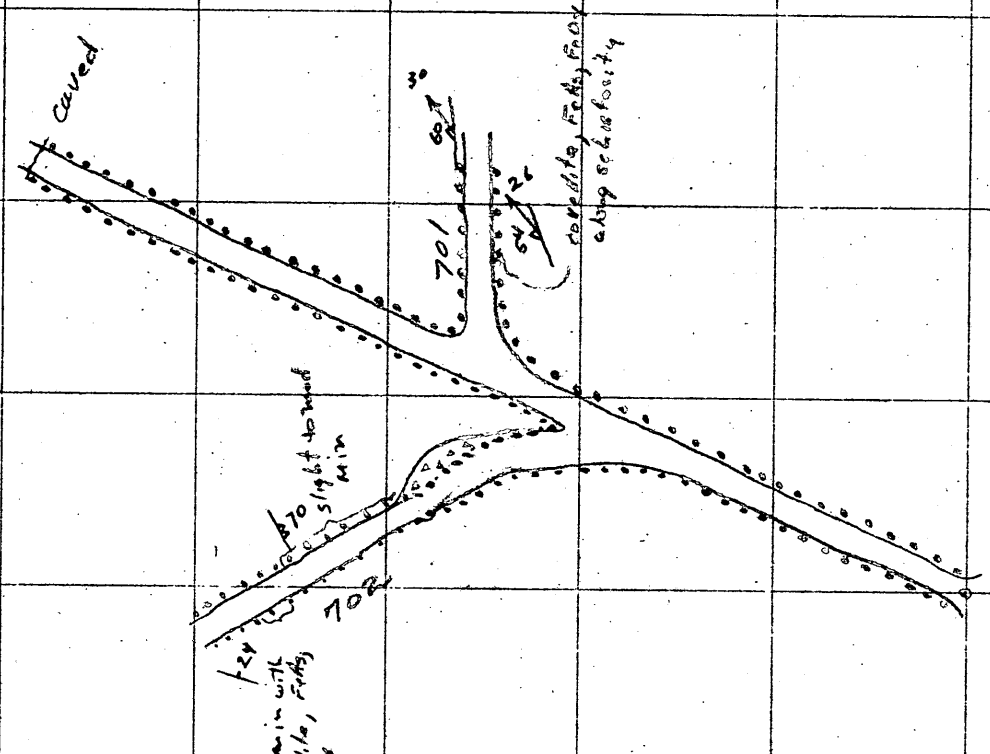
Docket #OMER-2436



Northfield Mines, Inc.
Exploration Adit
Merle, et al claims
Lemhi County, Idaho
Contract # Idm-E334
Scale: 1" = 50'

"ALBANENE" NO. 196M K&E CO., N.Y. REG. U.S. PAT. OFF.



Explanation

60 30

Axial plane cleavage showing dip, with plunge

70

schistosity due to shearing showing dip

24

Bedding, showing dip

Northfield Mines, Inc.
Exploration Adit
Meule et al. Claims
Lemhi County, Idaho
Contract. Edmo E 838
Scale: 1 in = 20'

N

"ALBANENE" NO. 1966 K&E CO., N.Y.
R30 U.S. PAT. OFF.

MINE: Northfield Mines, Inc., Stevenson Property, Idaho

PLACE: 7000 Adit

SAMPLE AND ASSAY LOG

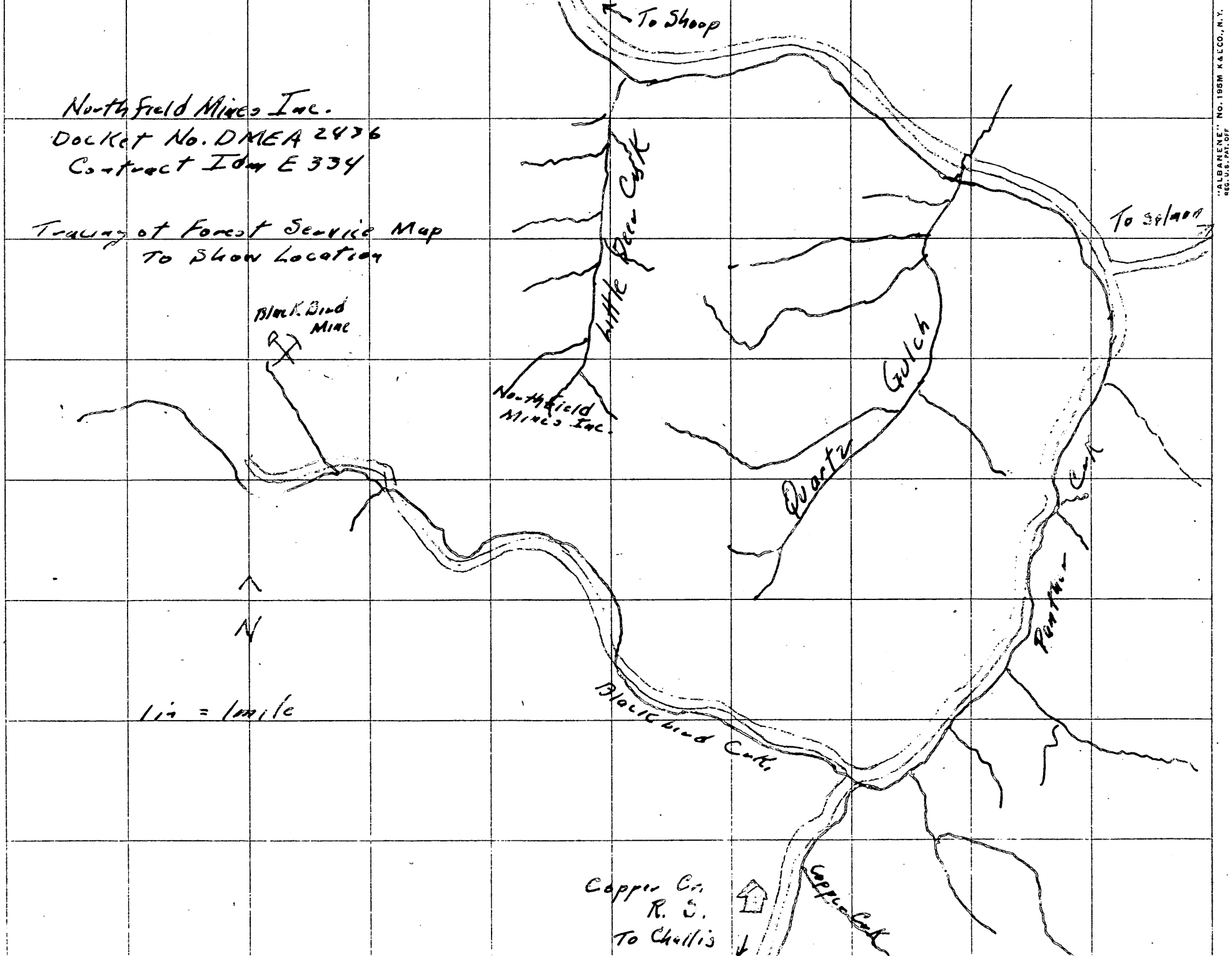
SAMPLE No.	STATION INTERVAL	% COBALT	% COPPER	REMARKS
70-1	168' to 173'	0.073	0.40	Horizontal cut along south wall
70-2	173' to 176.5'	0.117	0.50	Horizontal cut along south wall
70-3	99.7' to 102.7'	0.037	0.02	Horizontal cut along north wall
70-4	96.7' to 99.7'	0.139	0.25	Horizontal cut along south wall
70-5	102.7' to 108.2'	0.066	0.12	Horizontal cut along south wall
70-6	109.7' to 113.2'	0.139	2.83	Horizontal cut along north wall
70-7	157.5' to 162.5'	0.051	0.15	Horizontal cut along south wall
70-8	162.5' to 167.5'	0.058	0.50	Horizontal cut along south wall
70-9	168' to 173'	0.066	0.30	Horizontal cut along north wall
70-10	173' to 178'	0.058	0.81	Horizontal cut along north wall
70-11	173' to 178'	0.081	0.43	Horizontal cut along south wall
70-12	178' to 183'	0.073	0.65	Horizontal cut along north wall
70-13	178' to 183'	0.191	0.50	Horizontal cut along south wall
70-14	188' to 190.5'	0.257	2.07	Grab sample of cars during mucking
70-15	183' to 188'	0.058	0.70	Horizontal cut along north wall
70-16	183' to 188'	0.125	0.68	Horizontal cut along south wall

SAMPLE AND ASSAY LOG

SAMPLE No.	STATION INTERVAL	% COBALT	% COPPER	REMARKS
70-17	183' to 188'	0.330	0.38	Grab sample of cars during mucking
70-18	188' to 192'	0.23	0.43	Horizontal cut along north wall
70-19	188' to 192'	0.16	0.38	Horizontal cut along south wall
70-20	188' to 192'	0.25	0.88	Grab sample of cars during mucking
70-21	192' to 196.5'	0.17	0.45	Horizontal cut along north wall
70-22	192' to 196.5'	0.25	0.40	Horizontal cut along south wall
70-23	192' to 196.5'	0.21	0.53	Grab sample of cars during mucking
70-24	196.5' to 201.5'	0.24	1.03	Horizontal cut along north wall
70-25	196.5' to 201.5'	0.23	0.33	Horizontal cut along south wall
70-26	201.5' to 206.5'	0.25	0.58	Horizontal cut along north wall
70-27	201.5' to 206.5'	0.43	0.68	Horizontal cut along south wall
70-28	201.5' to 206.5'	0.21	0.50	Grab sample of cars during mucking
70-29	206.5' to 211.5'	0.403	1.21	Horizontal cut along north wall
70-30	206.5' to 211.5'	0.594	2.88	Horizontal cut along south wall
70-31	206.5' to 211.5'	0.469	0.70	Grab sample of cars during mucking
70-32	211.5' to 216.5'	0.535	0.88	Horizontal cut along north wall
70-33	211.5' to 216.5'	0.367	0.63	Horizontal cut along south wall

SAMPLE AND ASSAY LOG

SAMPLE No.	STATION INTERVAL	% COBALT	% COPPER	REMARKS
70-34	216.5' to 221'	0.278	0.80	Horizontal cut along north wall
70-35	216.5' to 221'	0.176	0.25	Horizontal cut along south wall
70-36	221' to 226'	1.042	1.56	Horizontal cut along north wall
70-37	221' to 226'	0.278	1.03	Horizontal cut along south wall
70-38	226' to 231'	0.095	0.27	Horizontal cut along north wall
70-39	226' to 231'	0.132	0.35	Horizontal cut along south wall
70-40	231' to 235.5'	0.484	1.18	Horizontal cut along north wall
70-41	231' to 235.5'	0.322	1.56	Horizontal cut along south wall
70-42	235.5' to 240'	0.190	0.60	Horizontal cut along north wall
70-43	235.5' to 240'	0.249	0.53	Horizontal cut along south wall
70-44	240' to 245'	0.344	0.80	Grab sample of cars during mucking
70-45	240' to 244'	0.411	0.70	Horizontal cut along north wall
70-46	244' to 248'	0.323	1.23	Horizontal cut along north wall
70-47	248' to 252'	0.029	0.17	Horizontal cut along north wall
70-48	252' to 257'			Horizontal cut along north wall
70-49	257' to 262'			Horizontal cut along north wall
70-50		4.191	13.81	Sample taken by Jack Brozo, do not know station interval



"ALBANENE" No. 195M K&E CO., N.Y.
REG. U.S. PAT. OFF

ASSAY RESULTS
7000 Adit

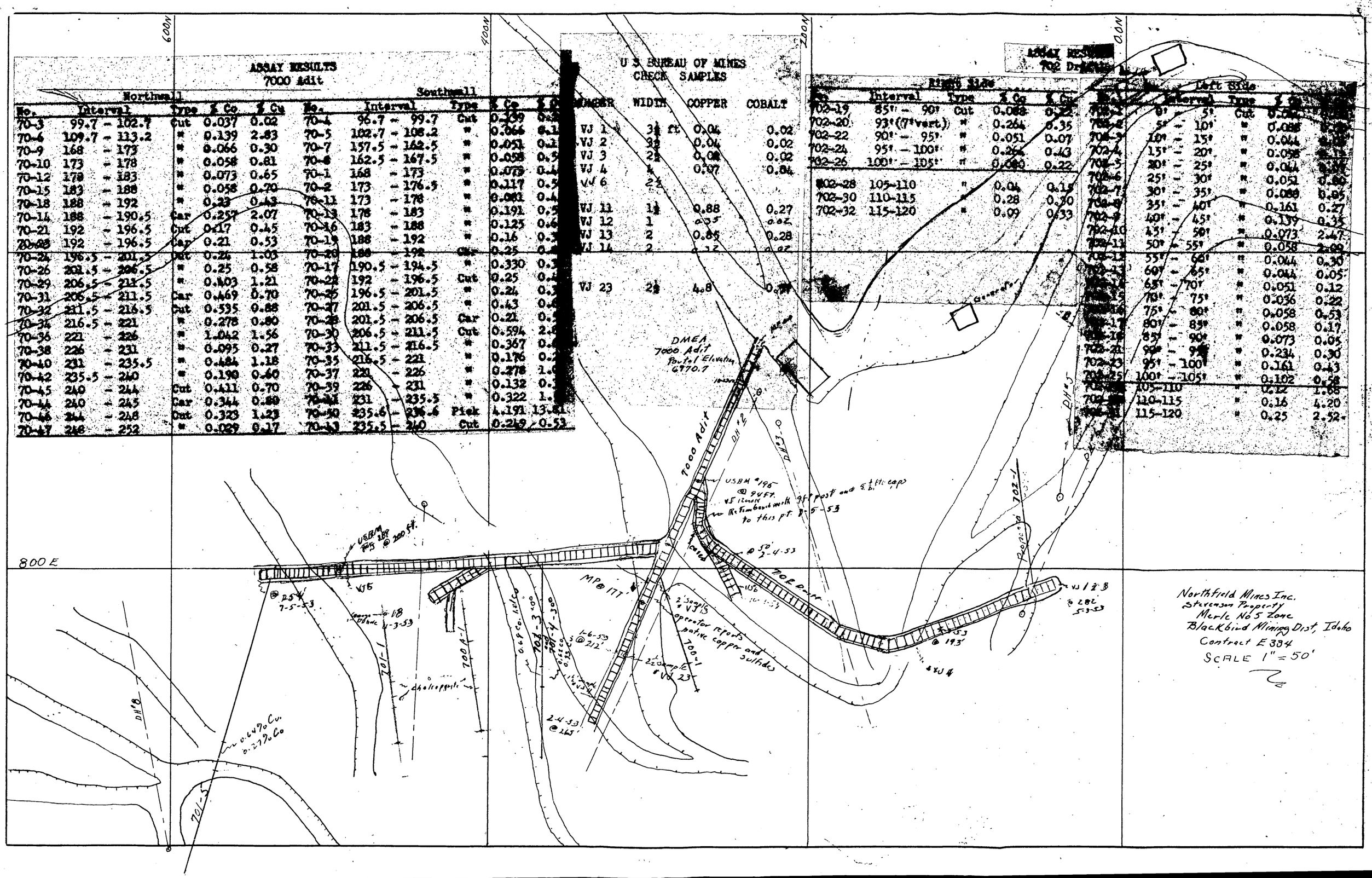
Northwall No.	Interval	Type	% Co	% Cu	Southwall No.	Interval	Type	% Co	% Cu
70-3	99.7 - 102.7	Cut	0.037	0.02	70-4	96.7 - 99.7	Cut	0.239	[illegible]
70-6	109.7 - 113.2	"	0.139	2.83	70-5	102.7 - 108.2	"	0.066	[illegible]
70-9	168 - 173	"	0.066	0.30	70-7	157.5 - 162.5	"	0.051	[illegible]
70-10	173 - 178	"	0.058	0.81	70-8	162.5 - 167.5	"	0.058	[illegible]
70-12	178 - 183	"	0.073	0.65	70-1	168 - 173	"	0.073	[illegible]
70-15	183 - 188	"	0.058	0.70	70-2	173 - 176.5	"	0.117	[illegible]
70-18	188 - 192	"	0.23	0.43	70-11	173 - 178	"	0.081	[illegible]
70-14	188 - 190.5	Car	0.257	2.07	70-13	178 - 183	"	0.191	[illegible]
70-21	192 - 196.5	Cut	0.17	0.45	70-16	183 - 188	"	0.125	[illegible]
70-23	192 - 196.5	Car	0.21	0.53	70-19	188 - 192	"	0.16	[illegible]
70-24	196.5 - 201.5	Cut	0.24	1.03	70-20	188 - 192	Car	0.25	[illegible]
70-26	201.5 - 206.5	"	0.25	0.58	70-17	190.5 - 194.5	"	0.330	[illegible]
70-29	206.5 - 211.5	"	0.403	1.21	70-22	192 - 196.5	Cut	0.25	[illegible]
70-31	206.5 - 211.5	Car	0.469	0.70	70-25	196.5 - 201.5	"	0.24	[illegible]
70-32	211.5 - 216.5	Cut	0.535	0.88	70-27	201.5 - 206.5	"	0.43	[illegible]
70-34	216.5 - 221	"	0.278	0.80	70-28	201.5 - 206.5	Car	0.21	[illegible]
70-36	221 - 226	"	1.042	1.56	70-30	206.5 - 211.5	Cut	0.594	[illegible]
70-38	226 - 231	"	0.095	0.27	70-33	211.5 - 216.5	"	0.367	[illegible]
70-40	231 - 235.5	"	0.484	1.18	70-35	216.5 - 221	"	0.176	[illegible]
70-42	235.5 - 240	"	0.190	0.60	70-37	221 - 226	"	0.278	[illegible]
70-45	240 - 244	Cut	0.411	0.70	70-39	226 - 231	"	0.132	[illegible]
70-44	240 - 243	Car	0.344	0.89	70-41	231 - 235.5	"	0.322	[illegible]
70-46	244 - 248	Cut	0.323	1.23	70-50	235.6 - 236.6	Pick	4.191	13.41
70-47	248 - 252	"	0.029	0.17	70-43	235.5 - 240	Cut	0.249	0.53

U S BUREAU OF MINES
CHECK SAMPLES

NUMBER	WIDTH	COPPER	COBALT
VJ 1	3½ ft	0.04	0.02
VJ 2	3½	0.04	0.02
VJ 3	2½	0.08	0.02
VJ 4	4	0.07	0.04
VJ 6	2½		
VJ 11	1½	0.88	0.27
VJ 12	1	0.05	0.02
VJ 13	2	0.85	0.28
VJ 14	2	0.12	0.02
VJ 23	2½	4.8	[illegible]

ASSAY RESULTS
702 Drift

Right Side No.	Interval	Type	% Co	% Cu	Left Side No.	Interval	Type	% Co	[illegible]
702-19	85' - 90'	Cut	0.088	0.22	702-2	0' - 5'	Cut	0.088	[illegible]
702-20	93' (7' vert.)	"	0.264	0.35	702-2	5' - 10'	"	0.088	[illegible]
702-22	90' - 95'	"	0.051	0.07	702-3	10' - 15'	"	0.044	[illegible]
702-24	95' - 100'	"	0.264	0.43	702-4	15' - 20'	"	0.058	[illegible]
702-26	100' - 105'	"	0.080	0.22	702-5	20' - 25'	"	0.044	[illegible]
702-28	105-110	"	0.04	0.15	702-6	25' - 30'	"	0.051	0.60
702-30	110-115	"	0.28	0.30	702-7	30' - 35'	"	0.088	0.05
702-32	115-120	"	0.09	0.33	702-8	35' - 40'	"	0.161	0.27
					702-9	40' - 45'	"	0.139	0.35
					702-10	45' - 50'	"	0.073	2.47
					702-11	50' - 55'	"	0.058	2.09
					702-12	55' - 60'	"	0.044	0.30
					702-13	60' - 65'	"	0.044	0.05
					702-14	65' - 70'	"	0.051	0.12
					702-15	70' - 75'	"	0.036	0.22
					702-16	75' - 80'	"	0.058	0.53
					702-17	80' - 85'	"	0.058	0.17
					702-18	85' - 90'	"	0.073	0.05
					702-21	90' - 95'	"	0.234	0.30
					702-23	95' - 100'	"	0.161	0.43
					702-25	100' - 105'	"	0.102	0.58
					702-[illegible]	105-110	"	0.12	1.68
					702-[illegible]	110-115	"	0.16	4.20
					702-[illegible]	115-120	"	0.25	2.52



Northfield Mines Inc.
Stevenson Property
Merle No 5 Zone
Blackbird Mining Dist, Idaho
Contract E 384
SCALE 1" = 50'

Mahmoud Ghali

ASSAY RESULTS
7000 Adit

Northwall No.	Interval	Type	% Co	% Cu	Southwall No.	Interval	Type	% Co	% Cu
70-3	99.7 - 102.7	Cut	0.037	0.02	70-4	96.7 - 99.7	Cut	0.139	0.25
70-6	109.7 - 113.2	"	0.139	2.83	70-5	102.7 - 108.2	"	0.066	0.12
70-9	168 - 173	"	0.066	0.30	70-7	157.5 - 162.5	"	0.051	0.15
70-10	173 - 178	"	0.058	0.81	70-8	162.5 - 167.5	"	0.058	0.50
70-12	178 - 183	"	0.073	0.65	70-1	168 - 173	"	0.073	0.40
70-15	183 - 188	"	0.058	0.70	70-2	173 - 176.5	"	0.117	0.50
70-18	188 - 192	"	0.23	0.43	70-11	173 - 178	"	0.081	0.43
70-14	188 - 190.5	Car	0.257	2.07	70-13	178 - 183	"	0.191	0.50
70-21	192 - 196.5	Cut	0.17	0.45	70-16	183 - 188	"	0.125	0.68
70-23	192 - 196.5	Car	0.21	0.53	70-19	188 - 192	"	0.16	0.38
70-24	196.5 - 201.5	Cut	0.24	1.03	70-20	188 - 192	Car	0.25	0.88
70-26	201.5 - 206.5	"	0.25	0.58	70-17	190.5 - 194.5	"	0.330	0.38
70-29	206.5 - 211.5	"	0.403	1.21	70-22	192 - 196.5	Cut	0.25	0.40
70-31	206.5 - 211.5	Car	0.469	0.70	70-25	196.5 - 201.5	"	0.24	0.33
70-32	211.5 - 216.5	Cut	0.535	0.88	70-27	201.5 - 206.5	"	0.43	0.68
70-34	216.5 - 221	"	0.278	0.80	70-28	201.5 - 206.5	Car	0.21	0.50
70-36	221 - 226	"	1.042	1.56	70-30	206.5 - 211.5	Cut	0.594	2.88
70-38	226 - 231	"	0.095	0.27	70-33	211.5 - 216.5	"	0.367	0.63
70-40	231 - 235.5	"	0.484	1.18	70-35	216.5 - 221	"	0.176	0.25
70-42	235.5 - 240	"	0.190	0.60	70-37	221 - 226	"	0.278	1.03
70-45	240 - 244	Cut	0.411	0.70	70-39	226 - 231	"	0.132	0.35
70-44	240 - 245	Car	0.344	0.80	70-41	231 - 235.5	"	0.322	1.56
70-46	244 - 248	Cut	0.323	1.23	70-50	235.6 - 236.6	Pick	4.191	13.81
70-47	248 - 252	"	0.029	0.17	70-43	235.5 - 240	Cut	0.249	0.53

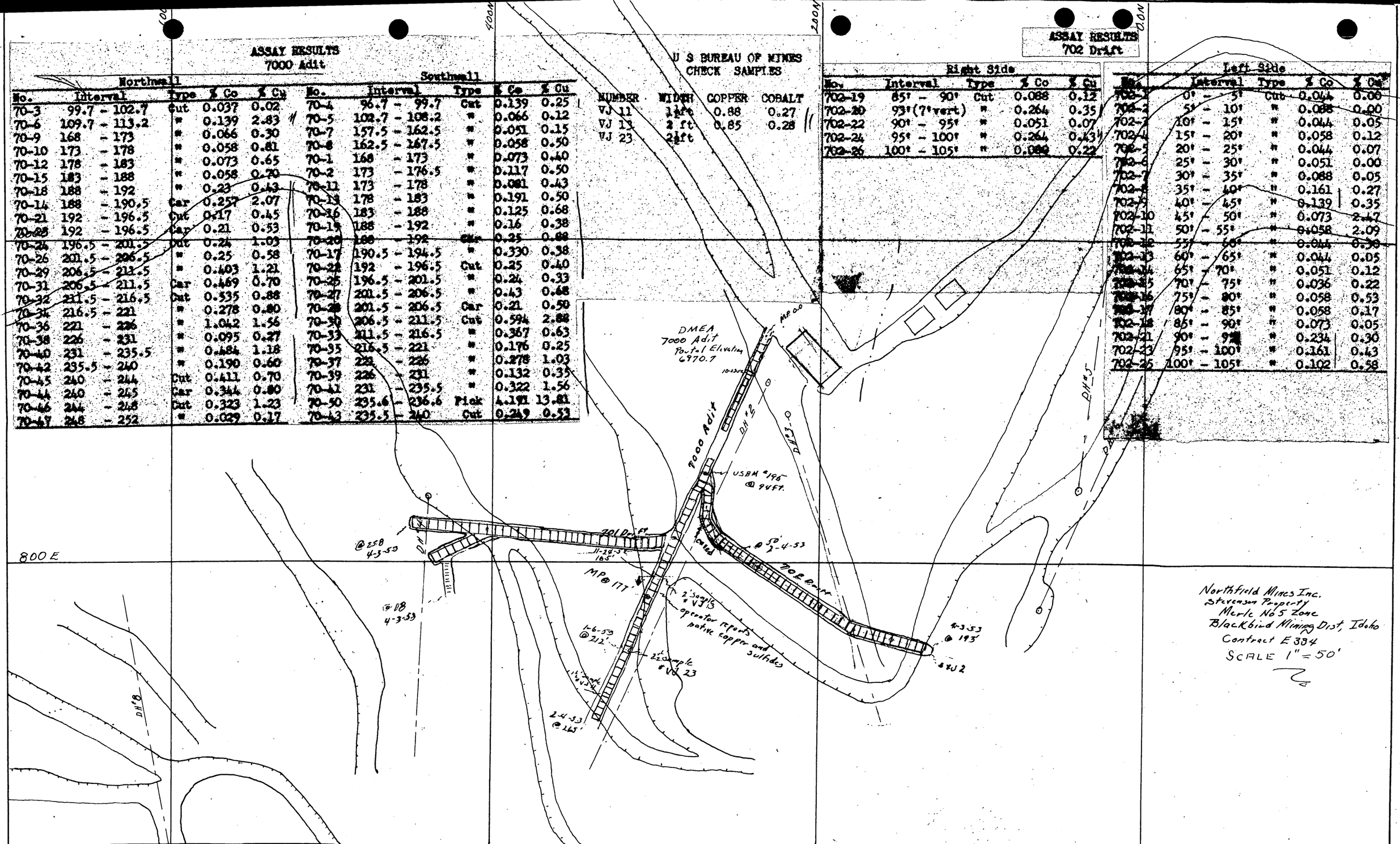
U S BUREAU OF MINES CHECK SAMPLES

NUMBER	WIDTH	COPPER	COBALT
VJ 11	1½ft	0.88	0.27
VJ 13	2 ft	0.85	0.28
VJ 23	2½ft		

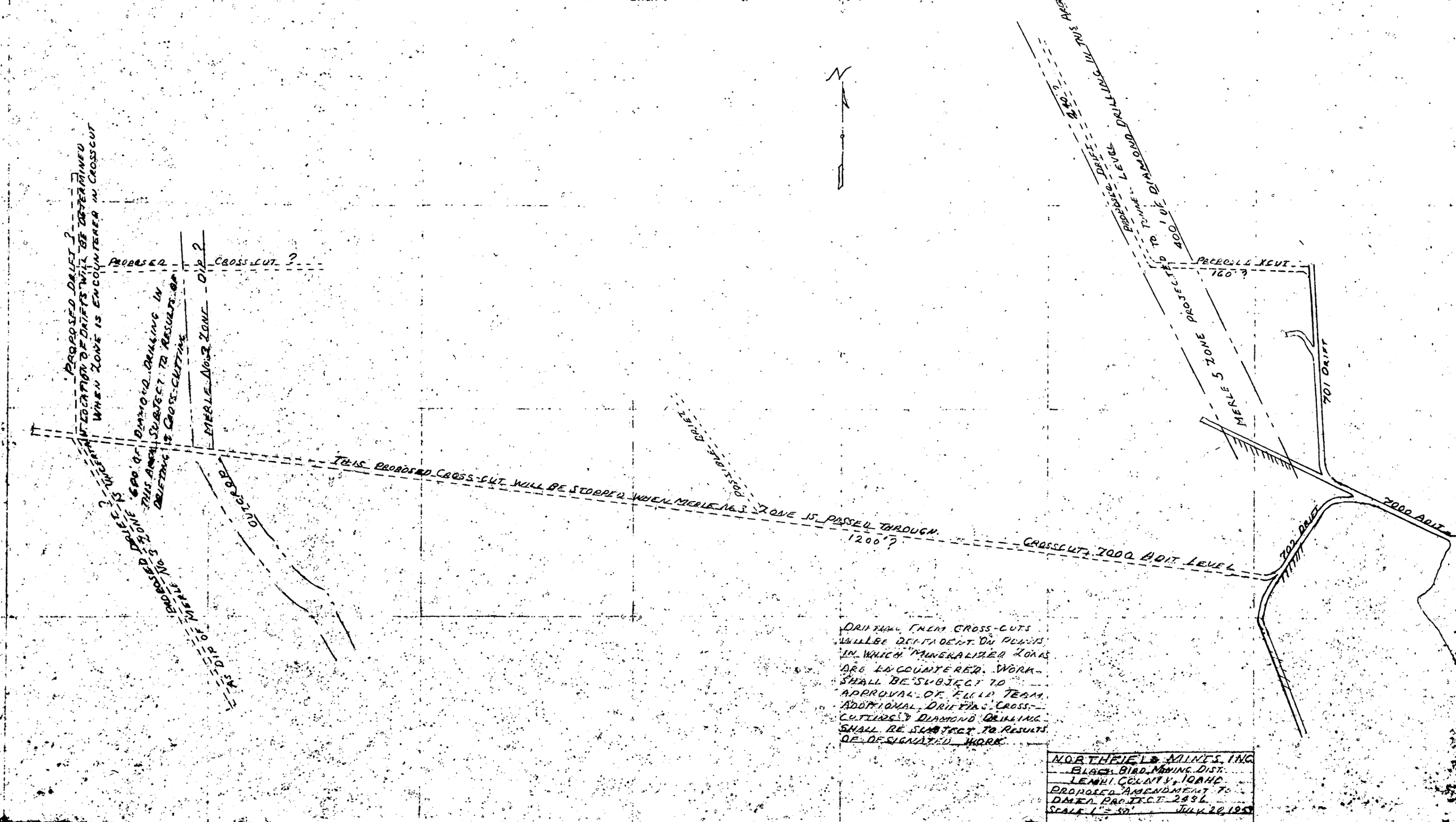
ASSAY RESULTS
702 Drift

Right Side No.	Interval	Type	% Co	% Cu
702-19	85' - 90'	Cut	0.088	0.12
702-20	93'(7'vert)	"	0.264	0.35
702-22	90' - 95'	"	0.051	0.07
702-24	95' - 100'	"	0.264	0.43
702-26	100' - 105'	"	0.088	0.22

Left Side No.	Interval	Type	% Co	% Cu
702-1	0' - 5'	Cut	0.044	0.00
702-2	5' - 10'	"	0.088	0.00
702-3	10' - 15'	"	0.044	0.05
702-4	15' - 20'	"	0.058	0.12
702-5	20' - 25'	"	0.044	0.07
702-6	25' - 30'	"	0.051	0.00
702-7	30' - 35'	"	0.088	0.05
702-8	35' - 40'	"	0.161	0.27
702-9	40' - 45'	"	0.139	0.35
702-10	45' - 50'	"	0.073	2.47
702-11	50' - 55'	"	0.058	2.09
702-12	55' - 60'	"	0.044	0.30
702-13	60' - 65'	"	0.044	0.05
702-14	65' - 70'	"	0.051	0.12
702-15	70' - 75'	"	0.036	0.22
702-16	75' - 80'	"	0.058	0.53
702-17	80' - 85'	"	0.058	0.17
702-18	85' - 90'	"	0.073	0.05
702-21	90' - 95'	"	0.234	0.30
702-23	95' - 100'	"	0.161	0.43
702-25	100' - 105'	"	0.102	0.58



Northfield Mines Inc.
Stevenson Property
Merle No 5 Zone
Blackbird Mining Dist, Idaho
Contract E 384
SCALE 1" = 50'


N
PROPOSED DRIFT ?
LOCATION OF DRIFTS WILL BE DETERMINED WHEN ZONE IS ENCOUNTERED IN CROSSCUT
PROPOSED CROSS-CUT ?
OLD 2
MERLE No. 2 ZONE
THIS AREA OF 600' DIAMOND DRILLING IN DRIFTING IS SUBJECT TO RESULTS OF CROSS-CUTTING
PROPOSED DRIFT ?
MERLE No. 3 ZONE
OUTCROP
THIS PROPOSED CROSS-CUT WILL BE STOPPED WHEN MERLE No. 3 ZONE IS PASSED THROUGH.
1200' ?
POSSIBLE DRIFT
CROSSCUT 7000 ADIT LEVEL
702 DRIFT
7000 ADIT
701 DRIFT
MERLE 5 ZONE PROSECUTED TO 400' BY DIAMOND DRILLING
PROPOSED DRIFT
PROPOSED LEVEL
PETROLL XCUT
160' ?
DRIFTING FROM CROSS-CUTS WILL BE DEPENDENT ON POINTS IN WHICH MINERALIZED ZONES ARE ENCOUNTERED. WORK SHALL BE SUBJECT TO APPROVAL OF FIELD TEAM. ADDITIONAL DRIFTING, CROSS-CUTTING & DIAMOND DRILLING SHALL BE SUBJECT TO RESULTS OF DESIGNATED WORK
NORTHFIELD MINES, INC.
BLACK BIRD MINING DIST.
LEMHI COUNTY, IDAHO
PROPOSED AMENDMENT TO
DMEA PROJECT 2996
SCALE 1" = 50'
JULY 20, 1955

ASSAY RESULTS
7000 Adit

Northwall No.	Interval	Type	% Co	% Cu	Southwall No.	Interval	Type	% Co	% Cu
70-3	99.7 - 102.7	Cut	0.037	0.02	70-4	96.7 - 99.7	Cut	0.139	0.2[illegible]
70-6	109.7 - 113.2	"	0.139	2.83	70-5	102.7 - 108.2	"	0.066	0.1[illegible]
70-9	168 - 173	"	0.066	0.30	70-7	157.5 - 162.5	"	0.051	0.1[illegible]
70-10	173 - 178	"	0.058	0.81	70-8	162.5 - 167.5	"	0.058	0.5[illegible]
70-12	178 - 183	"	0.073	0.65	70-1	168 - 173	"	0.073	0.4[illegible]
70-15	183 - 188	"	0.058	0.70	70-2	173 - 176.5	"	0.117	0.5[illegible]
70-18	188 - 192	"	0.23	0.43	70-11	173 - 178	"	0.081	0.4[illegible]
70-14	188 - 190.5	Car	0.257	2.07	70-13	178 - 183	"	0.191	0.5[illegible]
70-21	192 - 196.5	Cut	0.17	0.45	70-16	183 - 188	"	0.125	0.6[illegible]
70-23	192 - 196.5	Car	0.21	0.53	70-19	188 - 192	"	0.16	0.3[illegible]
70-24	196.5 - 201.5	Cut	0.24	1.03	70-20	188 - 192	Car	0.25	0.[illegible]
70-26	201.5 - 206.5	"	0.25	0.58	70-17	190.5 - 194.5	"	0.330	0.1[illegible]
70-29	206.5 - 211.5	"	0.403	1.21	70-22	192 - 196.5	Cut	0.25	0.4[illegible]
70-31	206.5 - 211.5	Car	0.469	0.70	70-25	196.5 - 201.5	"	0.24	0.3[illegible]
70-32	211.5 - 216.5	Cut	0.535	0.88	70-27	201.5 - 206.5	"	0.43	0.4[illegible]
70-34	216.5 - 221	"	0.278	0.80	70-28	201.5 - 206.5	Car	0.21	0.5[illegible]
70-36	221 - 226	"	1.042	1.56	70-30	206.5 - 211.5	Cut	0.594	2.4[illegible]
70-38	226 - 231	"	0.095	0.27	70-33	211.5 - 216.5	"	0.367	0.4[illegible]
70-40	231 - 235.5	"	0.484	1.18	70-35	216.5 - 221	"	0.176	0.2[illegible]
70-42	235.5 - 240	"	0.190	0.60	70-37	221 - 226	"	0.278	1.0[illegible]
70-45	240 - 244	Cut	0.411	0.70	70-39	226 - 231	"	0.132	0.[illegible]
70-44	240 - 245	Car	0.344	0.80	70-41	231 - 235.5	"	0.322	1.[illegible]
70-46	244 - 248	Cut	0.323	1.23	70-50	235.6 - 236.6	Pick	4.191	13.[illegible]
70-47	248 - 252	"	0.029	0.17	70-43	235.5 - 240	Cut	0.249	0.53

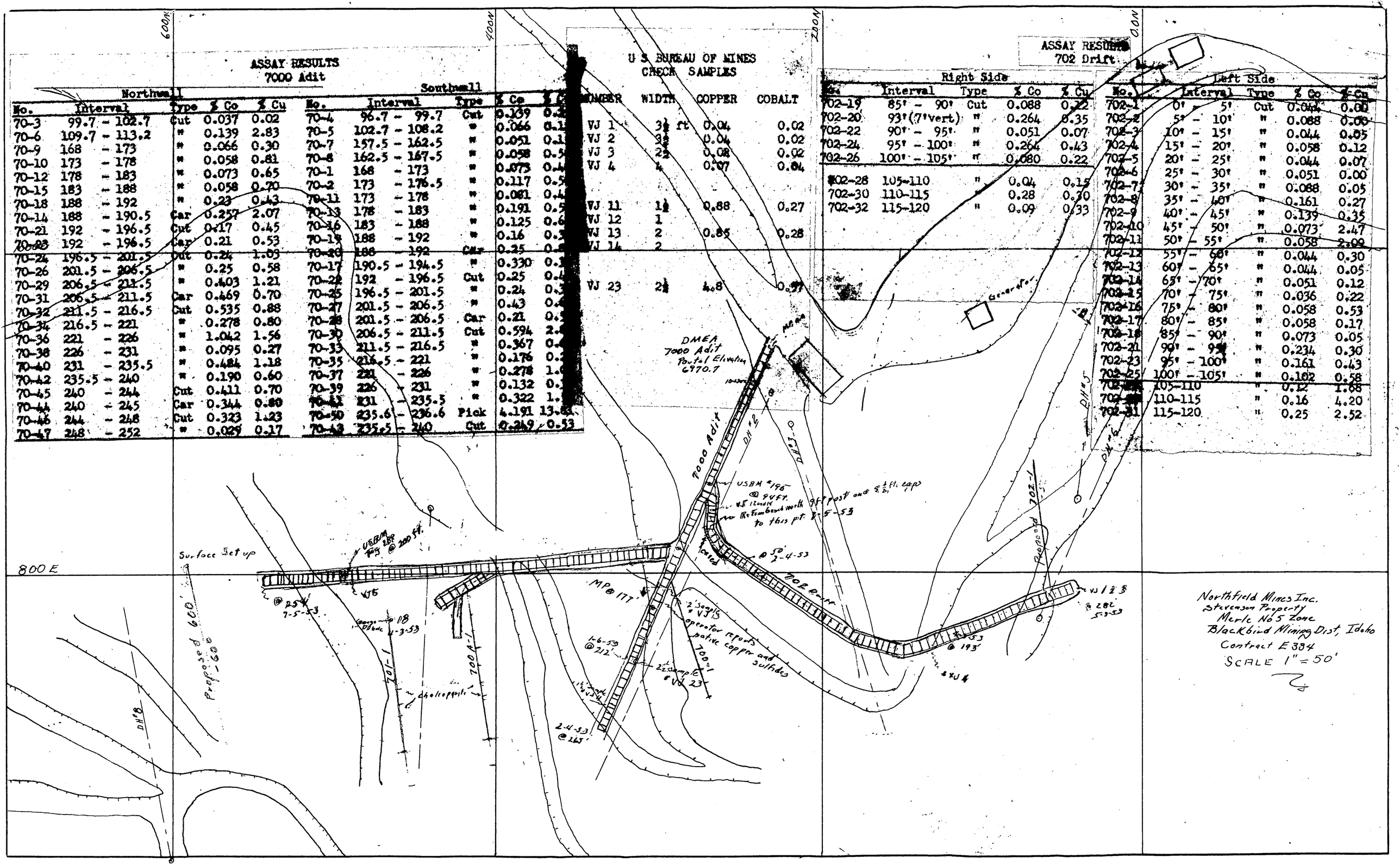
U S BUREAU OF MINES CHECK SAMPLES

[illegible]UMBER	WIDTH	COPPER	COBALT
VJ 1	3½ ft	0.04	0.02
VJ 2	3½	0.04	0.02
VJ 3	2½	0.08	0.02
VJ 4	4	0.07	0.04
VJ 11	1½	0.88	0.27
VJ 12	1		
VJ 13	2	0.85	0.28
VJ 14	2		
VJ 23	2½	4.8	0.37

ASSAY RESULTS
702 Drift

Right Side No.	Interval	Type	% Co	% Cu
702-19	85' - 90'	Cut	0.088	0.22
702-20	93' (7' vert)	"	0.264	0.35
702-22	90' - 95'	"	0.051	0.07
702-24	95' - 100'	"	0.264	0.43
702-26	100' - 105'	"	0.080	0.22
702-28	105-110	"	0.04	0.15
702-30	110-115	"	0.28	0.30
702-32	115-120	"	0.09	0.33

Left Side No.	Interval	Type	% Co	% Cu
702-1	0' - 5'	Cut	0.044	0.00
702-2	5' - 10'	"	0.088	0.00
702-3	10' - 15'	"	0.044	0.05
702-4	15' - 20'	"	0.058	0.12
702-5	20' - 25'	"	0.044	0.07
702-6	25' - 30'	"	0.051	0.00
702-7	30' - 35'	"	0.088	0.05
702-8	35' - 40'	"	0.161	0.27
702-9	40' - 45'	"	0.139	0.35
702-10	45' - 50'	"	0.073	2.47
702-11	50' - 55'	"	0.058	2.09
702-12	55' - 60'	"	0.044	0.30
702-13	60' - 65'	"	0.044	0.05
702-14	65' - 70'	"	0.051	0.12
702-15	70' - 75'	"	0.036	0.22
702-16	75' - 80'	"	0.058	0.53
702-17	80' - 85'	"	0.058	0.17
702-18	85' - 90'	"	0.073	0.05
702-21	90' - 95'	"	0.234	0.30
702-23	95' - 100'	"	0.161	0.43
702-25	100' - 105'	"	0.102	0.58
702-[illegible]	105-110	"	0.12	1.68
702-[illegible]	110-115	"	0.16	4.20
702-31	115-120	"	0.25	2.52



ASSAY RESULTS
7000 Adit

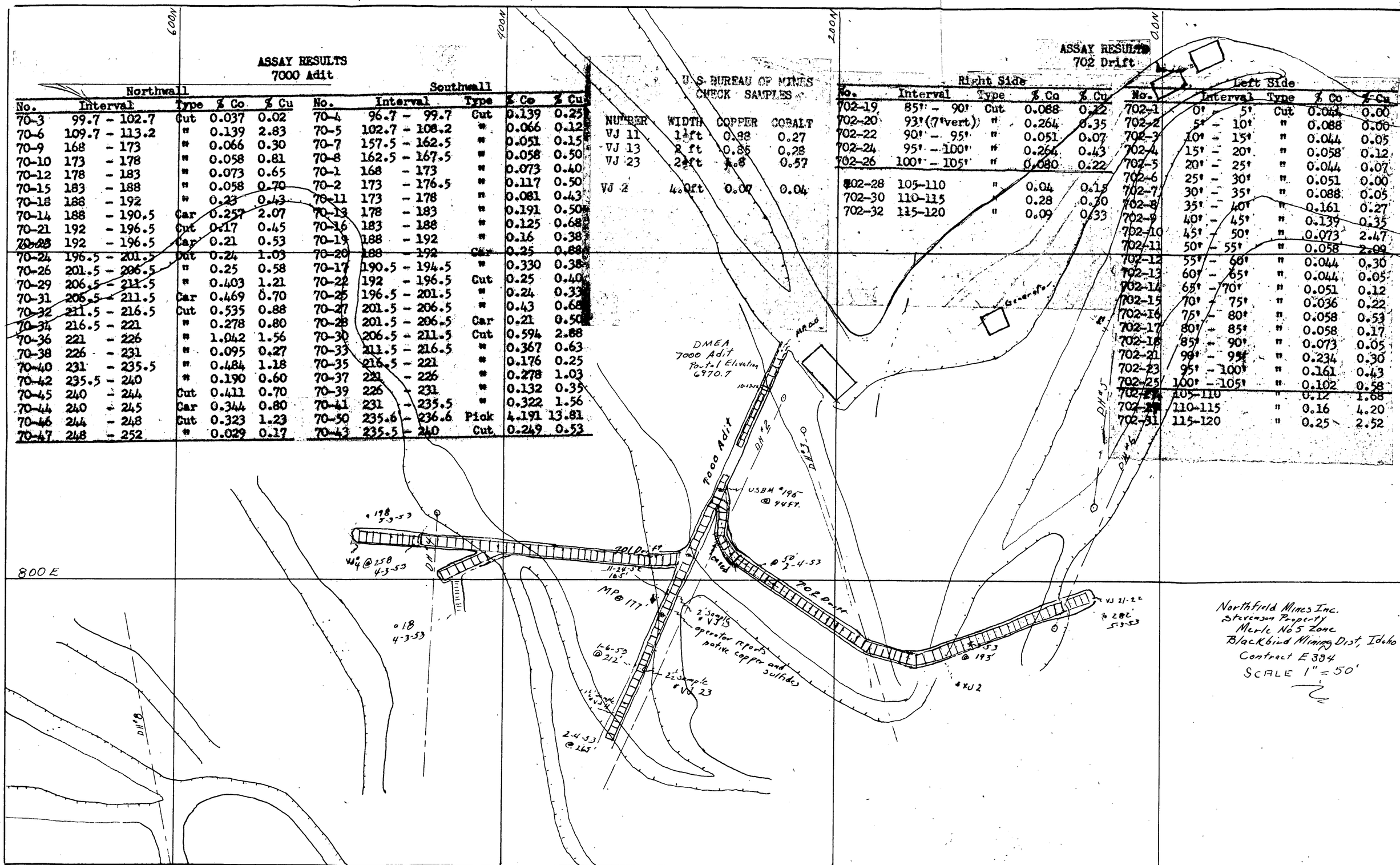
Northwall No.	Interval	Type	% Co	% Cu	Southwall No.	Interval	Type	% Co	% Cu
70-3	99.7 - 102.7	Cut	0.037	0.02	70-4	96.7 - 99.7	Cut	0.139	0.25
70-6	109.7 - 113.2	"	0.139	2.83	70-5	102.7 - 108.2	"	0.066	0.12
70-9	168 - 173	"	0.066	0.30	70-7	157.5 - 162.5	"	0.051	0.15
70-10	173 - 178	"	0.058	0.81	70-8	162.5 - 167.5	"	0.058	0.50
70-12	178 - 183	"	0.073	0.65	70-1	168 - 173	"	0.073	0.40
70-15	183 - 188	"	0.058	0.70	70-2	173 - 176.5	"	0.117	0.50
70-18	188 - 192	"	0.23	0.43	70-11	173 - 178	"	0.081	0.43
70-14	188 - 190.5	Car	0.257	2.07	70-13	178 - 183	"	0.191	0.50
70-21	192 - 196.5	Cut	0.17	0.45	70-16	183 - 188	"	0.125	0.68
70-23	192 - 196.5	Car	0.21	0.53	70-19	188 - 192	"	0.16	0.38
70-24	196.5 - 201.5	Cut	0.24	1.03	70-20	188 - 192	Car	0.25	0.88
70-26	201.5 - 206.5	"	0.25	0.58	70-17	190.5 - 194.5	"	0.330	0.38
70-29	206.5 - 211.5	"	0.403	1.21	70-22	192 - 196.5	Cut	0.25	0.40
70-31	206.5 - 211.5	Car	0.469	0.70	70-25	196.5 - 201.5	"	0.24	0.33
70-32	211.5 - 216.5	Cut	0.535	0.88	70-27	201.5 - 206.5	"	0.43	0.68
70-34	216.5 - 221	"	0.278	0.80	70-28	201.5 - 206.5	Car	0.21	0.50
70-36	221 - 226	"	1.042	1.56	70-30	206.5 - 211.5	Cut	0.594	2.88
70-38	226 - 231	"	0.095	0.27	70-33	211.5 - 216.5	"	0.367	0.63
70-40	231 - 235.5	"	0.484	1.18	70-35	216.5 - 221	"	0.176	0.25
70-42	235.5 - 240	"	0.190	0.60	70-37	221 - 226	"	0.278	1.03
70-45	240 - 244	Cut	0.411	0.70	70-39	226 - 231	"	0.132	0.35
70-44	240 - 245	Car	0.344	0.80	70-41	231 - 235.5	"	0.322	1.56
70-46	244 - 248	Cut	0.323	1.23	70-50	235.6 - 236.6	Pick	4.191	13.81
70-47	248 - 252	"	0.029	0.17	70-43	235.5 - 240	Cut	0.249	0.53

U.S. BUREAU OF MINES CHECK SAMPLES

NUMBER	WIDTH	COPPER	COBALT
VJ 11	1 ft	0.88	0.27
VJ 13	2 ft	0.85	0.28
VJ 23	2 ft	1.8	0.57
VJ 2	4.0 ft	0.07	0.04

ASSAY RESULTS
702 Drift

Right Side No.	Interval	Type	% Co	% Cu	Left Side No.	Interval	Type	% Co	% Cu
702-19	85' - 90'	Cut	0.088	0.22	702-1	0' - 5'	Cut	0.044	0.00
702-20	93' (7' vert)	"	0.264	0.35	702-2	5' - 10'	"	0.088	0.00
702-22	90' - 95'	"	0.051	0.07	702-3	10' - 15'	"	0.044	0.05
702-24	95' - 100'	"	0.264	0.43	702-4	15' - 20'	"	0.058	0.12
702-26	100' - 105'	"	0.080	0.22	702-5	20' - 25'	"	0.044	0.07
702-28	105-110	"	0.04	0.15	702-6	25' - 30'	"	0.051	0.00
702-30	110-115	"	0.28	0.30	702-7	30' - 35'	"	0.088	0.05
702-32	115-120	"	0.09	0.33	702-8	35' - 40'	"	0.161	0.27
					702-9	40' - 45'	"	0.139	0.35
					702-10	45' - 50'	"	0.073	2.47
					702-11	50' - 55'	"	0.058	2.09
					702-12	55' - 60'	"	0.044	0.30
					702-13	60' - 65'	"	0.044	0.05
					702-14	65' - 70'	"	0.051	0.12
					702-15	70' - 75'	"	0.036	0.22
					702-16	75' - 80'	"	0.058	0.53
					702-17	80' - 85'	"	0.058	0.17
					702-18	85' - 90'	"	0.073	0.05
					702-21	90' - 95'	"	0.234	0.30
					702-23	95' - 100'	"	0.161	0.43
					702-25	100' - 105'	"	0.102	0.58
					702-27	105-110	"	0.12	1.68
					702-29	110-115	"	0.16	4.20
					702-31	115-120	"	0.25	2.52



MF-500

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

REFERENCE SLIP

DATE 6/29/53

REFERRED TO:

1. Code 400, Rm. 3538
2.
3.
4.

FOR:

---------- Action	---------- Recommendation
---------- Approval	---------- Record of ----------
---------- Comment	---------- Referring to ----------
---------- Conference	---------- Reply for signature of ----------
---------- Consideration	---------- Rewriting
---------- Filing	---------- Signature
---------- Instructions	---------- Suggestions
---------- Investigation	---------- Your information
---------- Initials	
---------- Mailing	
---------- Previous correspondence	

REMARKS:

****These maps are to accompany memo of 6/13/53 from Field Team.

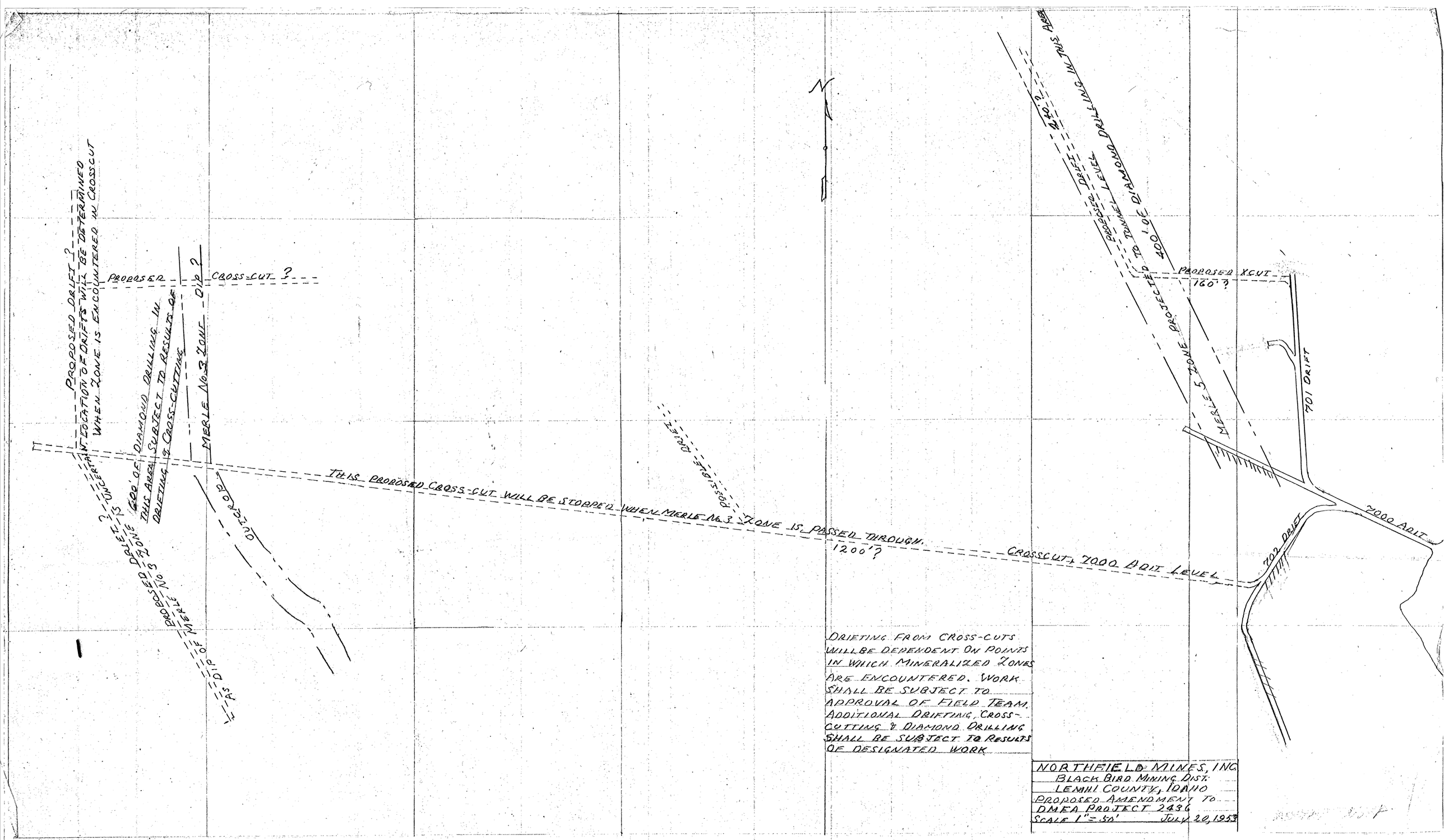
Northfield Mines

Check (X) before the items needing attention.

ROBERT E. AD[illegible]

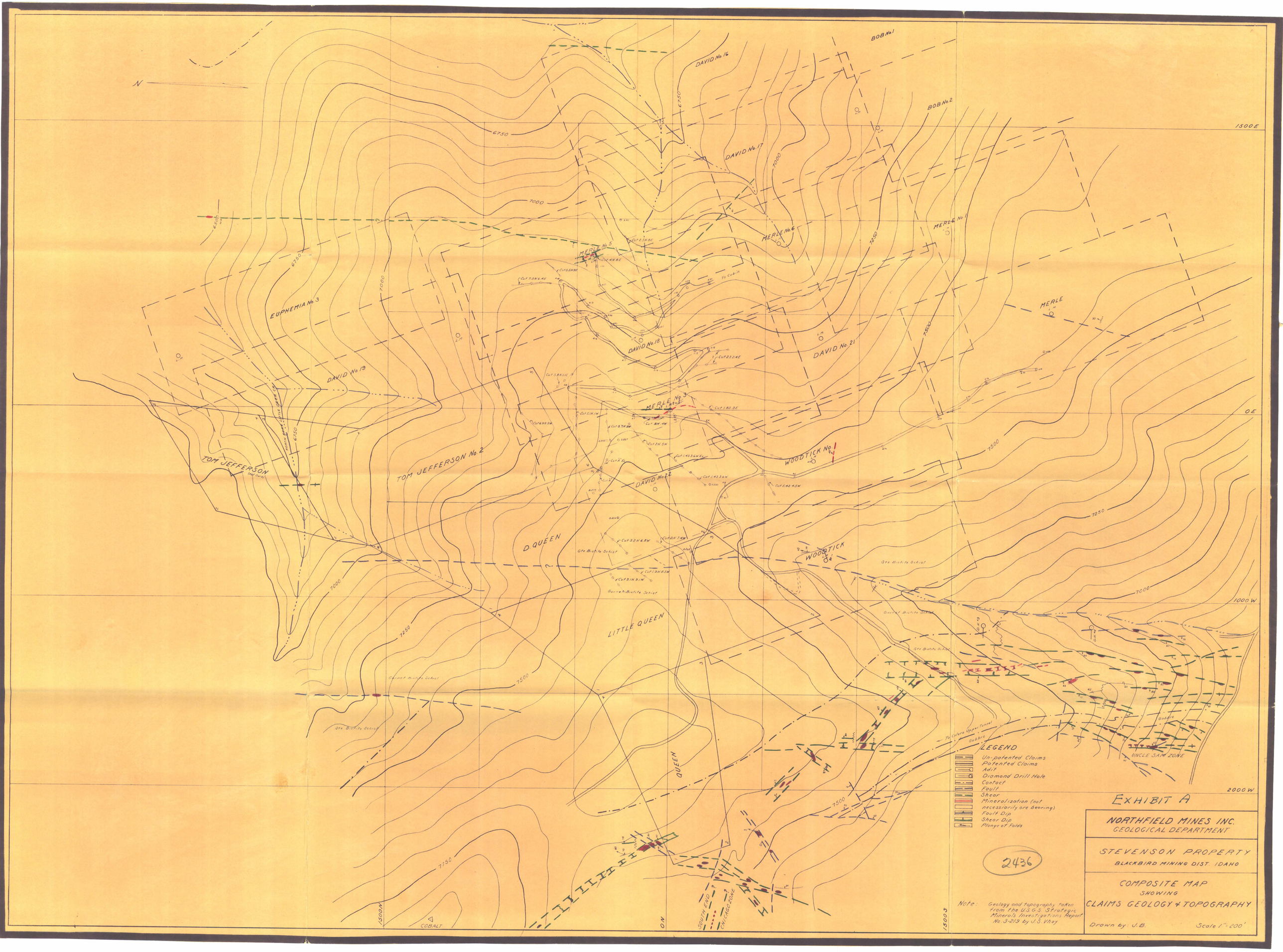
Initials of sender.

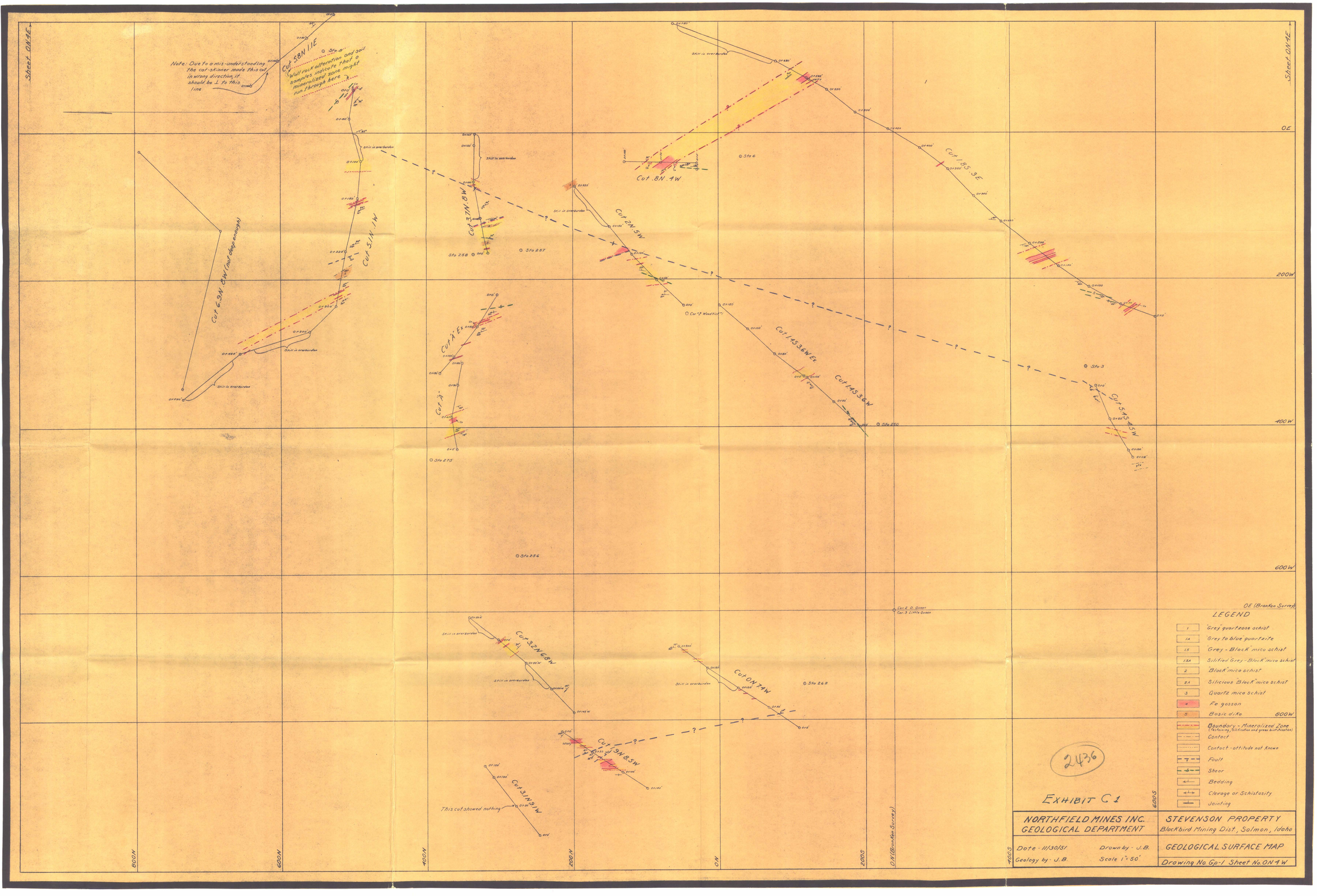
GPO 16—63815-1

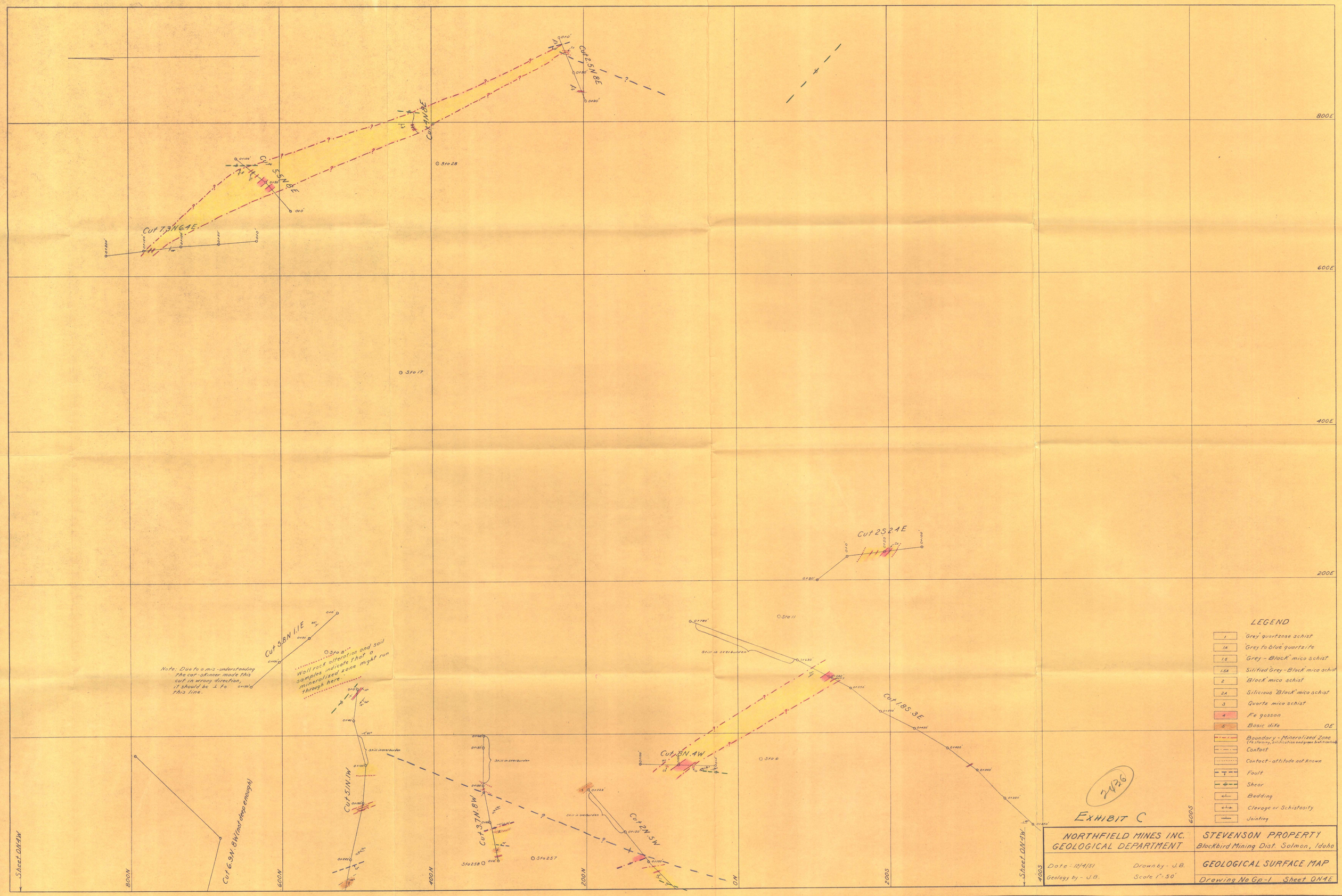


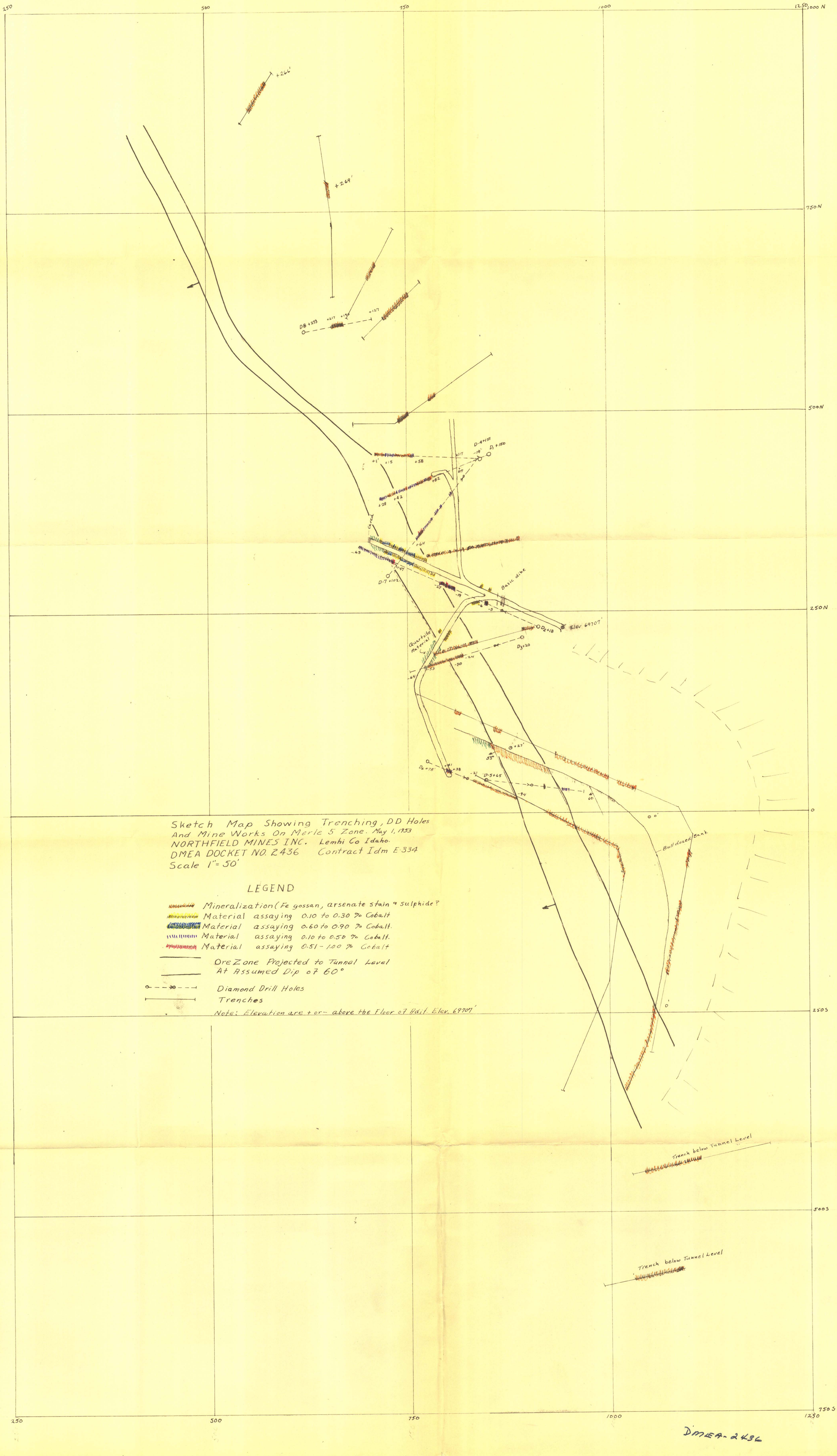
DRIFTING FROM CROSS-CUTS WILL BE DEPENDENT ON POINTS IN WHICH MINERALIZED ZONES ARE ENCOUNTERED. WORK SHALL BE SUBJECT TO APPROVAL OF FIELD TEAM. ADDITIONAL DRIFTING, CROSS-CUTTING & DIAMOND DRILLING SHALL BE SUBJECT TO RESULTS OF DESIGNATED WORK

NORTHFIELD MINES, INC.
BLACK BIRD MINING DIST.
LEMHI COUNTY, IDAHO
PROPOSED AMENDMENT TO
DMEA PROJECT 2436
SCALE 1" = 50' JULY 20, 1953


N
BOB No. 1
BOB No. 2
DAVID No. 16
DAVID No. 17
DAVID No. 18
DAVID No. 19
DAVID No. 21
DAVID No. 22
MERLE No. 1
MERLE No. 3
MERLE No. 5
MERLE No. 6
MERLE
EUPHEMIA No. 3
TOM JEFFERSON
TOM JEFFERSON No. 2
D. QUEEN
LITTLE QUEEN
QUEEN
WOODTICK
WOODTICK No. 1
UNCLE SAM ZONE
SOUTH END
CHICAGO ZONE
COBALT
1500E
0E
1000W
2000W
1500S
0N
1500N
6750
7000
7250
7500
Qtz Biotite Schist
Garnet Biotite Schist
Gabbro
LEGEND
Un-patented Claims
Patented Claims
Adit
Diamond Drill Hole
Contact
Fault
Shear
Mineralization (not necessarily ore bearing)
Fault Dip
Shear Dip
Plunge of Folds
2436
Note: Geology and topography taken from the U.S.G.S. Strategic Minerals Investigations Report No. 3-219 by U.S. Vhay
EXHIBIT A
NORTHFIELD MINES INC.
GEOLOGICAL DEPARTMENT
STEVENSON PROPERTY
BLACKBIRD MINING DIST. IDAHO
COMPOSITE MAP
SHOWING
CLAIMS GEOLOGY & TOPOGRAPHY
Drawn by: J.B.
Scale 1" = 200'


Sheet 0N4E
Note: Due to a mis-understanding the cat-skinner made this cut in wrong direction, it should be ⊥ to this line
Cut 5.8N 1.1E
Sta 6
Wall rock alteration and soil samples indicate that a mineralized zone might run through here
Cut 6.9N .0W (not deep enough)
Still in overburden
Cut 5.1N .1W
Cut 3.7N .8W
Sta 258
Sta 257
Cut 2N .5W
Cut .8N .4W
Cut 1.5S .3E
Cut "A" Ex
Cut "A"
Sta 275
Sta 256
Cut 1.4S 3.6W Ex
Cut 1.4S 3.6W
Sta 250
Sta 3
Cut 5.4S .4.5W
Cut 3.2N 6.8W
Cut 0N 7.4W
Sta 248
Cut 3N 8.5W
Cut 3.1N 9.1W
This cut showed nothing
Car 2 D. Queen
Car 3 Little Queen
0E (Branken Survey)
0N (Branken Survey)
200W
400W
600W
800W
800N
600N
400N
200N
0N
200S
400S
600S
LEGEND
1 'Grey' quartzose schist
1A 'Grey to blue' quartzite
1.5 'Grey - Black' mica schist
1.5A Silified Grey - Black' mica schist
2 'Black' mica schist
2A Silicious 'Black' mica schist
3 Quartz mica schist
4 Fe gossan
5 Basic dike
Boundary - Mineralized Zone (Fastaining, Silification and green bustdiseation)
Contact
Contact - attitude not Known
Fault
Shear
Bedding
Clevage or Schistosity
Jointing
2436
EXHIBIT C 1
NORTHFIELD MINES INC.
GEOLOGICAL DEPARTMENT
STEVENSON PROPERTY
Blackbird Mining Dist, Salmon, Idaho
Date - 11/30/51
Drawn by - J.B.
Geology by - J.B.
Scale 1" = 50'
GEOLOGICAL SURFACE MAP
Drawing No. Gp-1 Sheet No. 0N4W


Cut 7.3N 6.4E.
Cut 5.5N 8E
Cut 4N 8E
Cut 2.5N 8E
Sto 28
Sto 17
Cut 2S 2.4E
Cut 5.8N 1.1E
Note: Due to a mis-understanding the cat-skinner made this cut in wrong direction, it should be ⊥ to this line.
Sto a
Wall rock alteration and soil samples indicate that a mineralized zone might run through here.
Still in overburden
Cut 5N.1W
Cut 3.7N.8W
Sto 258
Sto 257
Cut 6.9N.8W (not deep enough)
Cut 2N.5W
Cut .8N.4W
Sto 6
Sto 11
Cut 1.8S.3E
800E
600E
400E
200E
0E
200S
400S
600S
800N
600N
400N
200N
0N
200S
400S
Sheet 0N4W
Sheet 0N4W
LEGEND
1 'Grey' quartzose schist
1A 'Grey to blue' quartzite
1.6 'Grey - Black' mica schist
1.6A Silified 'Grey - Black' mica schist
2 'Black' mica schist
2A Silicious 'Black' mica schist
3 Quartz mica schist
4 Fe gosson
5 Basic dike
Boundary - Mineralized Zone (Fe staining, silicification and green bleaching)
Contact
Contact - attitude not known
Fault
Shear
Bedding
Cleavage or Schistosity
Jointing
EXHIBIT C
NORTHFIELD MINES INC.
GEOLOGICAL DEPARTMENT
STEVENSON PROPERTY
Blackbird Mining Dist. Salmon, Idaho
Date - 12/4/51
Drawn by - J.B.
Geology by - J.B.
Scale 1" = 50'
GEOLOGICAL SURFACE MAP
Drawing No Gp-1 Sheet 0N4E



Sketch Map Showing Trenching, DD Holes
And Mine Works On Merle 5 Zone. May 1, 1953
NORTHFIELD MINES INC. Lemhi Co Idaho.
DMEA DOCKET NO. 2436 Contract Idm E-334
Scale 1" = 50'

LEGEND

- Mineralization (Fe gossan, arsenate stain & sulphide?
- Material assaying 0.10 to 0.30 % Cobalt
- Material assaying 0.60 to 0.90 % Cobalt.
- Material assaying 0.10 to 0.50 % Cobalt.
- Material assaying 0.51 - 1.00 % Cobalt
- Ore Zone Projected to Tunnel Level At Assumed Dip of 60°
- Diamond Drill Holes
- Trenches

Note: Elevation are + or - above the Floor of Adit. Elev. 69707'

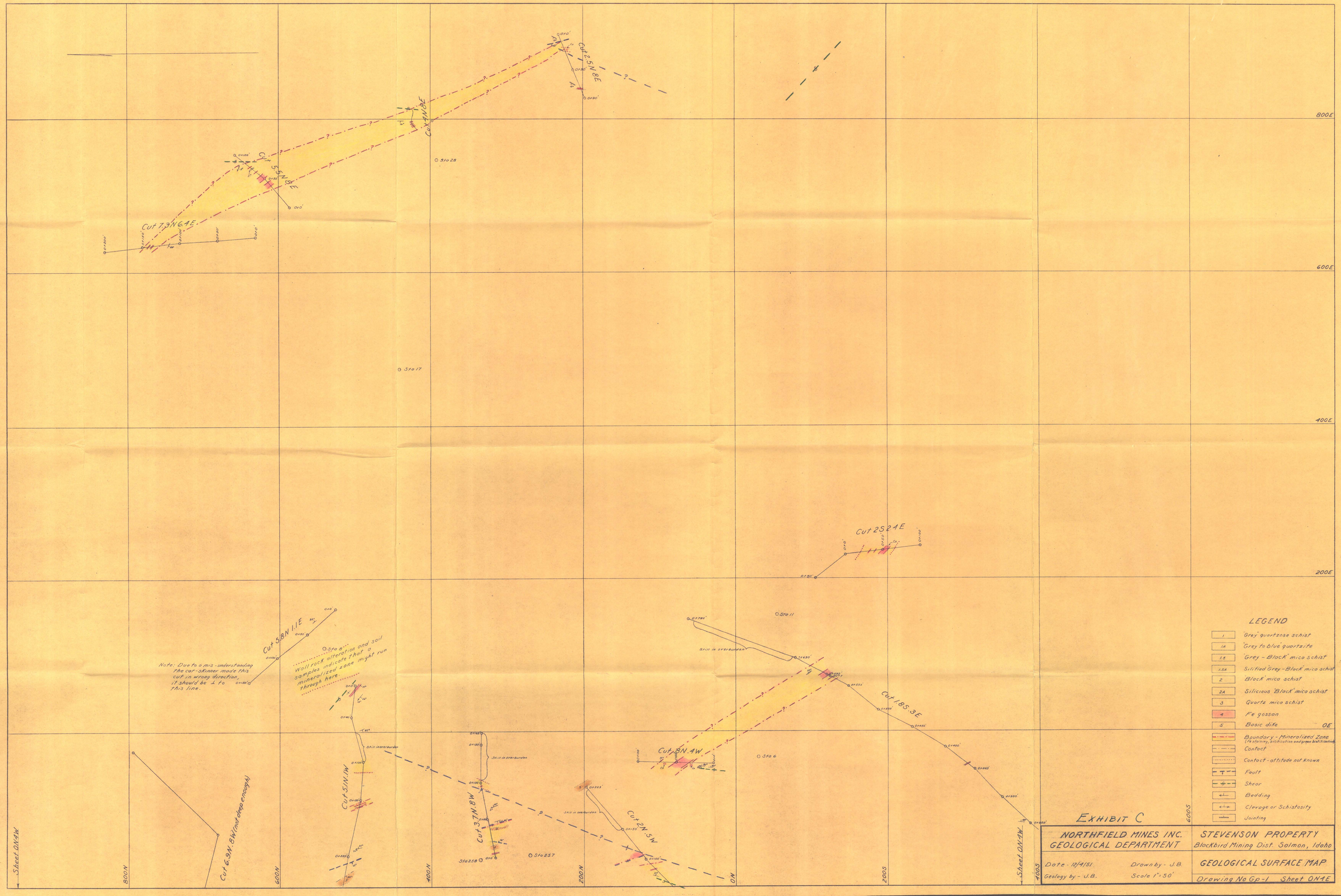
DMEA-2436

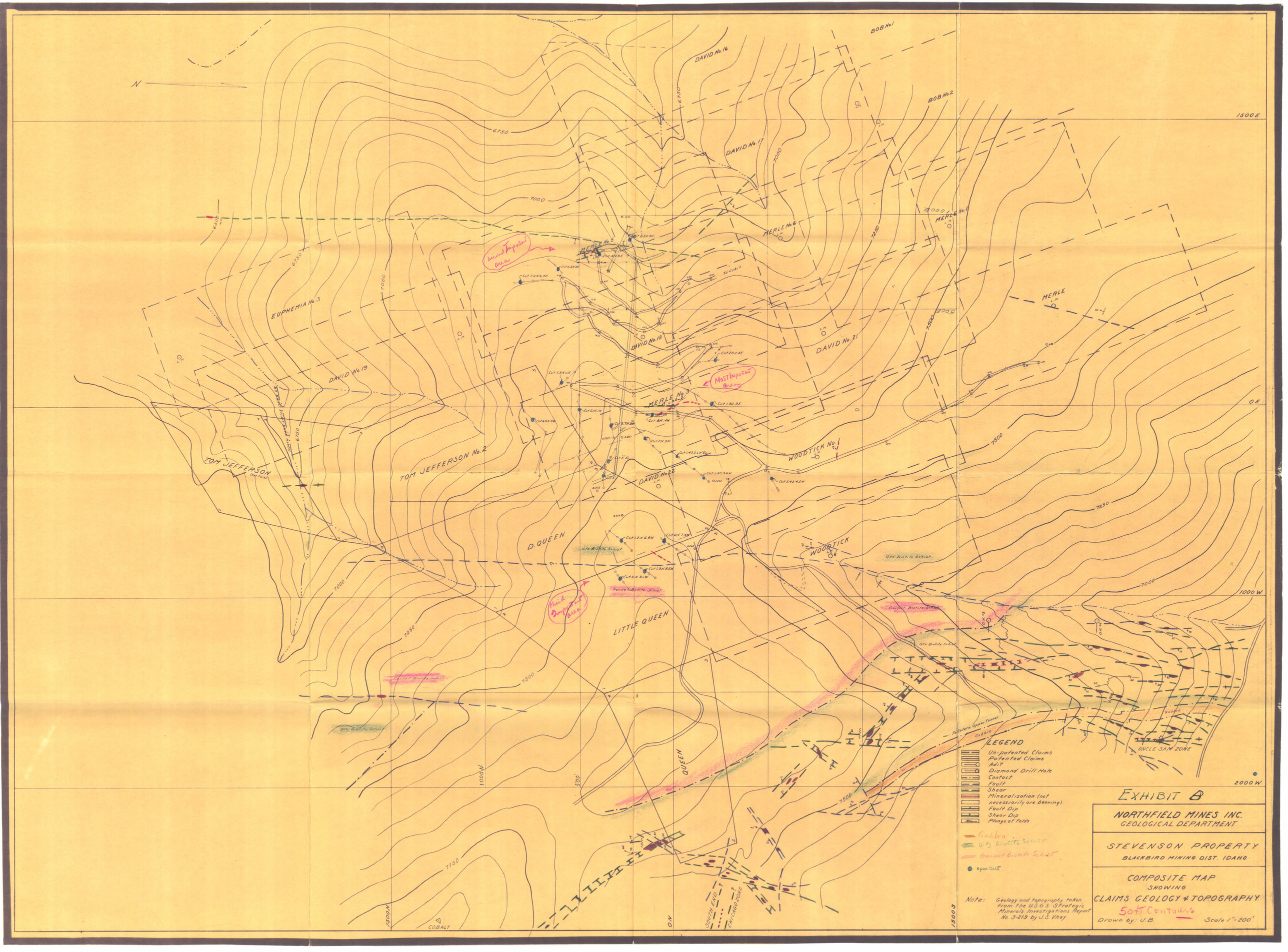
Sketch Map Showing Trenching, DD Holes
And Mine Works On Merle 5 Zone. May 1, 1953
NORTHFIELD MINES INC. Lemhi Co Idaho.
DMEA DOCKET NO. 2436 Contract Idm E 334
Scale 1" = 50'

LEGEND

- Mineralization (Fe gossan, arsenate stain & sulphide?
- Material assaying 0.10 to 0.30 % Cobalt
- Material assaying 0.60 to 0.90 % Cobalt.
- Material assaying 0.10 to 0.50 % Cobalt.
- Material assaying 0.51 - 1.00 % Cobalt
- Ore Zone Projected to Tunnel Level At Assumed Dip of 60°
- Diamond Drill Holes
- Trenches

Note: Elevation are + or - above the Floor of Adit. Elev. 69707'


Cut 7.3N 6.4E
Cut 5.5N 8E
Cut 4N 8E
Cut 2.5N 8E
Sta 28
Sta 17
800E
600E
400E
200E
Cut 2S 2.4E
Cut 5.8N 1.1E
Note: Due to a mis-understanding the cat-skinner made this cut in wrong direction, it should be ⊥ to this line.
Sta a
Wall rock alteration and soil samples indicate that a mineralized zone might run through here.
Still in overburden
Cut 5.1N 1W
Cut 3.7N 8W
Sta 258
Sta 257
Cut 6.9W 8W (not deep enough)
Cut 2N 5W
Cut 8N 4W
Sta 6
Sta 11
Cut 18S 3E
800N
600N
400N
200N
0N
200S
400S
600S
Sheet 0N-4W
LEGEND
1 'Grey' quartzose schist
1A 'Grey to blue' quartzite
1.5 'Grey - Black' mica schist
1.5A Silified 'Grey - Black' mica schist
2 'Black' mica schist
2A Silicious 'Black' mica schist
3 Quartz mica schist
4 Fe gossan
5 Basic dike
Boundary - Mineralized Zone (Fe staining, silification and green bolt if seen)
Contact
Contact - attitude not known
Fault
Shear
Bedding
Clevage or Schistosity
Jointing
EXHIBIT C
NORTHFIELD MINES INC.
GEOLOGICAL DEPARTMENT
STEVENSON PROPERTY
Blackbird Mining Dist. Salmon, Idaho
Date - 12/4/51
Drawn by - J.B.
Geology by - J.B.
Scale 1" = 50'
GEOLOGICAL SURFACE MAP
Drawing No Gp-1 Sheet 0N4E



LEGEND

- Un-patented Claims
- Patented Claims
- Adit
- Diamond Drill Hole
- Contact
- Fault
- Shear
- Mineralization (not necessarily ore bearing)
- Fault Dip
- Shear Dip
- Plunge of Folds
- Gabbro
- Gtz Biotite Schist
- Garnet Biotite Schist
- Open Cut

Note: Geology and topography taken from the U.S.G.S. Strategic Minerals Investigations Report No. 3-219 by U.S. Vhay

EXHIBIT B

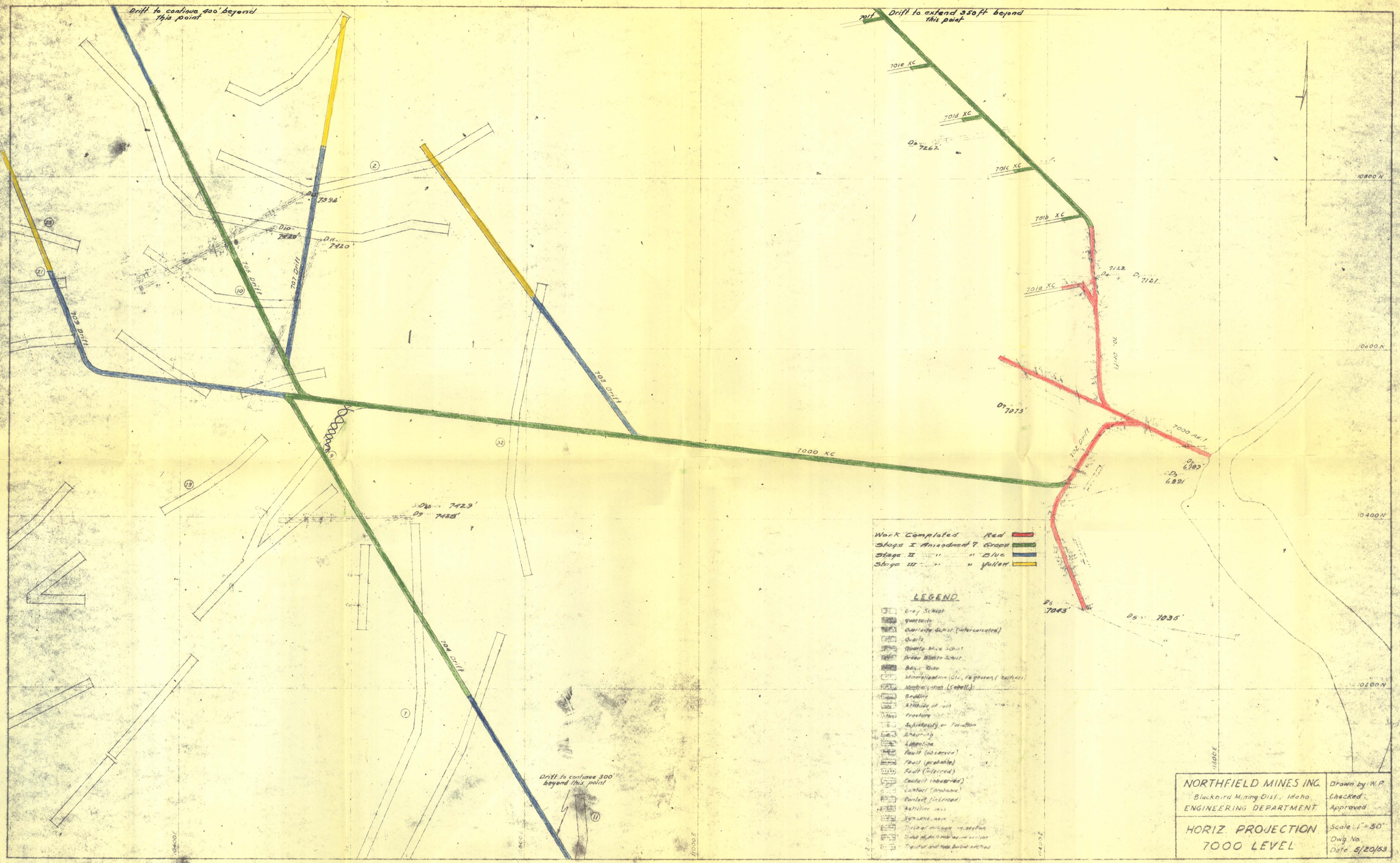
NORTHFIELD MINES INC.
GEOLOGICAL DEPARTMENT

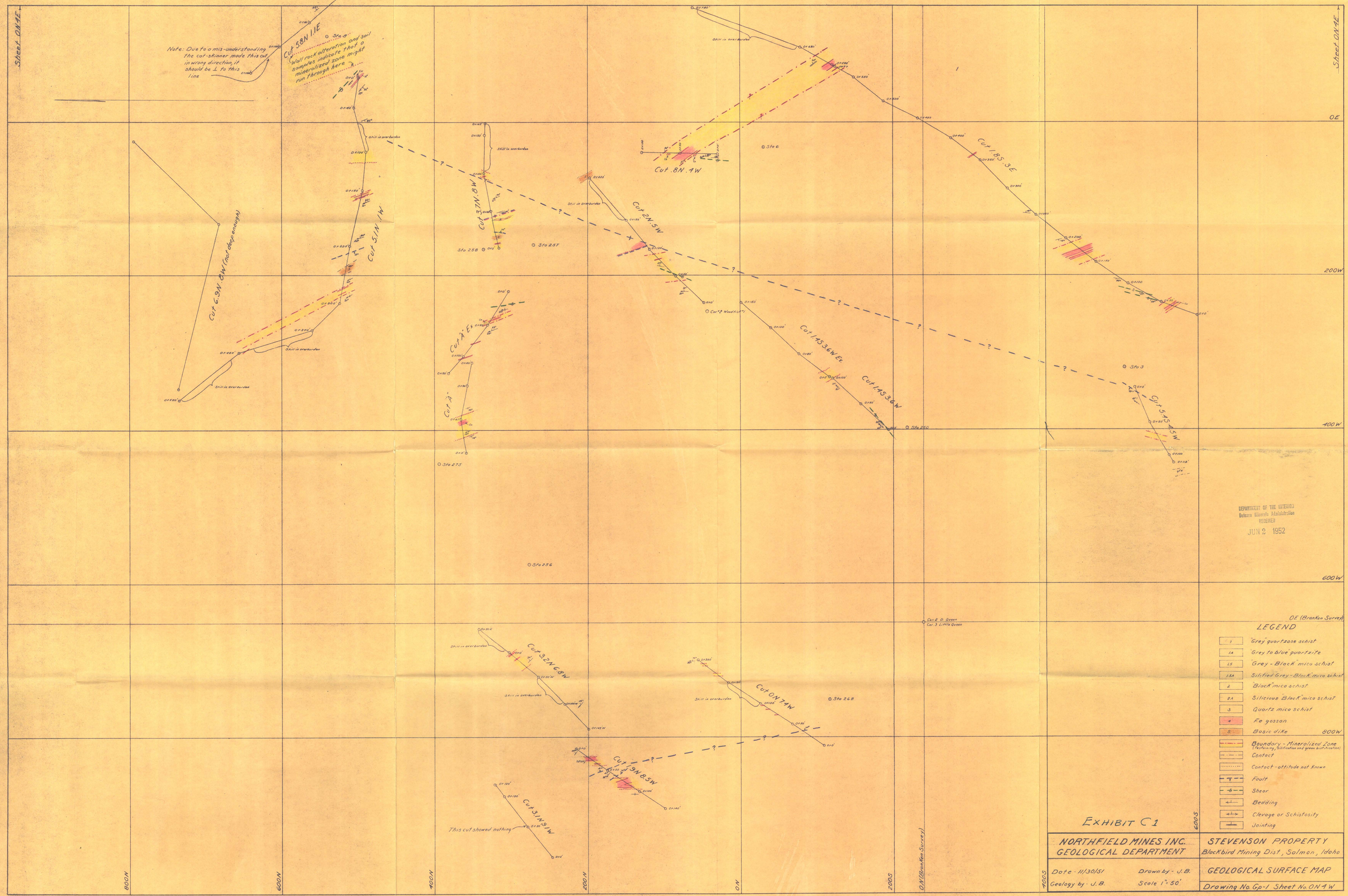
STEVENSON PROPERTY
BLACKBIRD MINING DIST. IDAHO

COMPOSITE MAP
SHOWING
CLAIMS GEOLOGY & TOPOGRAPHY

50ft Contours

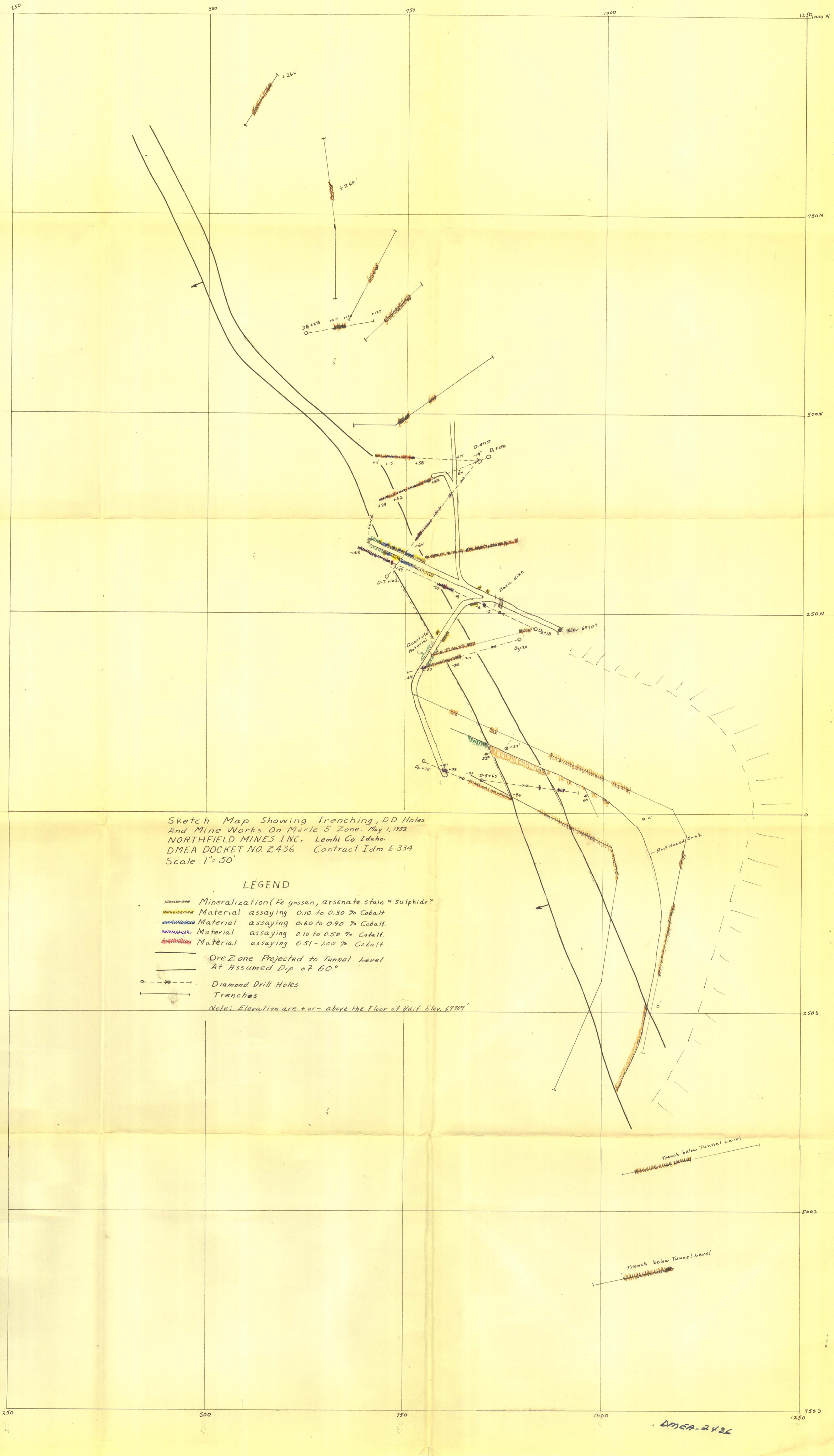
Drawn by: J.B. Scale 1" = 200'


Drift to continue 400' beyond this point
Drift to extend 350 ft beyond this point
701e XC
701d XC
701c XC
701b XC
701a XC
7000 XC
703 Drift
705 Drift
707 Drift
704 Drift
702 Drift
7000 Adit
Drift to continue 300' beyond this point
Work Completed Red
Stage I Amendment 7 Green
Stage II " " Blue
Stage III " " Yellow
LEGEND
Grey Schist
Quartzite
Quartzite Schist (intercalated)
Quartz
Quartz Mica Schist
Green Biotite Schist
Black Slate
Mineralization (Cu, Fe pyrites, Galena)
Mineralization (Scheelite)
Grading
Attitude of rock
Fracture
Schistosity or Foliation
Shearing
Limestone
Fault (observed)
Fault (probable)
Fault (inferred)
Contact (observed)
Contact (probable)
Contact (inferred)
Adjacent area
Symmetric area
Direction of slope in section
Dip of drift in adjacent section
Trend of drift in adjacent section
NORTHFIELD MINES INC.
Blackbird Mining Dist., Idaho
ENGINEERING DEPARTMENT
HORIZ. PROJECTION
7000 LEVEL
Drawn by: W.P.
Checked:
Approved:
Scale: 1" = 50'
Dwg. No.
Date: 5/20/53


Sheet ON4E
Note: Due to a mis-understanding the cat-skinner made this cut in wrong direction, it should be ⊥ to this line
Cut 5.8N 1.1E
Sta 5
Wall rock alteration and soil samples indicate that a mineralized zone might run through here
Cut 6.9N .8W (not deep enough)
Cut 5.1N .1W
Cut 3.7N .8W
Sta 258
Sta 257
Cut 2N .5W
Cut .8N .4W
Sta 6
Cut 1.8S .3E
Cut A' Ex
Cut A'
Sta 275
Cut 1.4S 3.6W Ex
Cut 1.4S 3.6W
Sta 250
Sta 3
Cut 5.4S .4S W
Sta 256
Cut 3.2N 6.8W
Cut 0N 7.4W
Sta 268
Cut 1.9N 8.5W
Cut 3.1N 9.1W
This cut showed nothing
Car 2 O. Green
Car 3 Little Queen
Still in overburden
0E
200W
400W
600W
800W
600S
800N
600N
400N
200N
0N
200S
400S
0N (Branken Survey)
0E (Branken Survey)
DEPARTMENT OF THE INTERIOR
Bureau Mines Administration
RECEIVED
JUN 2 1952
LEGEND
1 'Grey' quartzose schist
1A Grey to blue quartzite
1S 'Grey - Black' mica schist
1SA Silified Grey - Black mica schist
2 'Black' mica schist
2A Silicious 'Black' mica schist
3 Quartz mica schist
4 Fe gossan
5 Basic dike
Boundary - Mineralized Zone (Pestering, Silification and green biotitization)
Contact
Contact - attitude not Known
Fault
Shear
Bedding
Clevage or Schistosity
Jointing
EXHIBIT C1
NORTHFIELD MINES INC.
GEOLOGICAL DEPARTMENT
STEVENSON PROPERTY
Blackbird Mining Dist, Salmon, Idaho
Date - 11/30/51
Drawn by - J.B.
Geology by - J.B.
Scale 1" = 50'
GEOLOGICAL SURFACE MAP
Drawing No. Gp-1 Sheet No. ON 4 W

11300 E
11400 E
11500 E
10300 N
10400 N
10500 N
10600 N
10700 N
10800 N
702 DRIFT
701 DRIFT
7000 ADIT
PORTAL
Drill Hole 700-1
Drill Hole 701-1
Drill Hole 702-1
No assay results to date
701d XC
COLOR LEGEND
0.10 to 0.30 % Co
0.30 to 0.50 % Co
0.50 to 0.70 % Co
0.70 to 0.90 % Co
Over 0.90 % Co
SAMPLE LEGEND
Sample Interval
Type of Sample
C = Cut or Channel
V = Vertical
M = Muck
P = Pick
G = Grab
% Cu
% Co
Note: Location of drill holes is approximate.
NORTHFIELD MINES, INC.
Blackbird Mining Dist., Idaho
ENGINEERING DEPARTMENT
Drawn by: W.P.
Checked:
Approved:
ASSAY MAP
7000 LEVEL
Date: 5/23/53
Scale: 1" = 20'
Dwg. No.

dmcx 2436



Sketch Map Showing Trenching, DD Holes
And Mine Works On Merle 5 Zone. May 1, 1953
NORTHFIELD MINES INC. Lemhi Co Idaho.
DMEA DOCKET NO. 2436 Contract Idm E-334
Scale 1" = 50'

LEGEND

Mineralization (Fe gossan, arsenate stain & sulphide?
Material assaying 0.10 to 0.30 % Cobalt
Material assaying 0.60 to 0.90 % Cobalt.
Material assaying 0.10 to 0.50 % Cobalt.
Material assaying 0.51 - 1.00 % Cobalt

Ore Zone Projected to Tunnel Level
At Assumed Dip of 60°

Diamond Drill Holes
Trenches

Note: Elevation are + or - above the Floor of Adit. Elev. 69707'

DMEA-2436

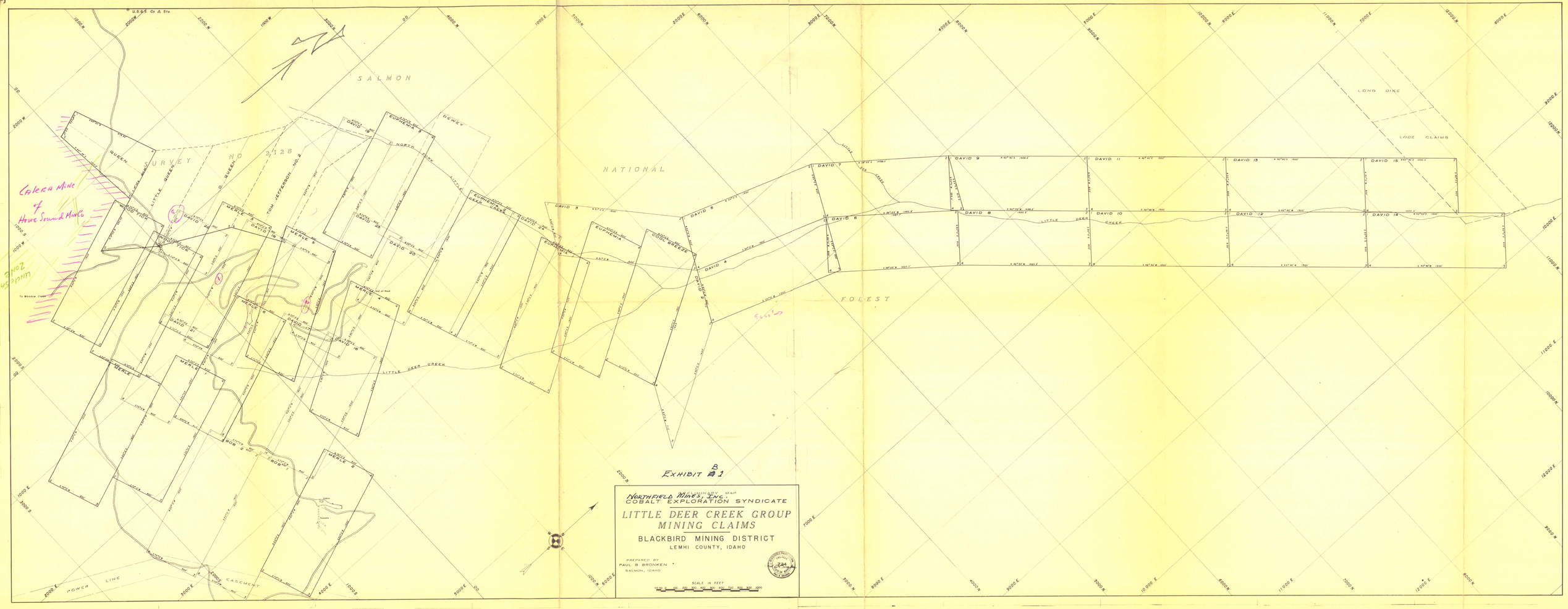


EXHIBIT B #1
NORTHFIELD MINES, INC.
COBALT EXPLORATION SYNDICATE
LITTLE DEER CREEK GROUP
MINING CLAIMS
BLACKBIRD MINING DISTRICT
LEMHI COUNTY, IDAHO
PREPARED BY
PAUL B. BRONKEN
SALMON, IDAHO
SCALE IN FEET
SALMON
NATIONAL
FOREST
LONG DIKE
LODE CLAIMS
LITTLE DEER CREEK
POWER LINE EASEMENT
QUEEN
LITTLE QUEEN
Q. QUEEN
TOM JEFFERSON NO. 2
SURVEY NO. 2128
DEWEY
NORTH
EUPHEMIA
COL. BREEZE
DEER CREEK
MERLE
DAVID
Calera Mine
of
Horse Sound Hills
To Meadow Creek

Sketch Map Showing Trenching, DD Holes
And Mine Works On Merle 5 Zone. May 1, 1953
NORTHFIELD MINES INC. Lemhi Co Idaho.
DMEA DOCKET NO. 2436 Contract Idm E-334
Scale 1" = 50'

LEGEND

Mineralization (Fe gossan, arsenate stain & sulphide?
Material assaying 0.10 to 0.30 % Cobalt
Material assaying 0.60 to 0.90 % Cobalt.
Material assaying 0.10 to 0.50 % Cobalt.
Material assaying 0.51 - 1.00 % Cobalt

Ore Zone Projected to Tunnel Level
At Assumed Dip of 60°

Diamond Drill Holes
Trenches

Note: Elevation are + or - above the Floor of Adit. Elev. 69707'