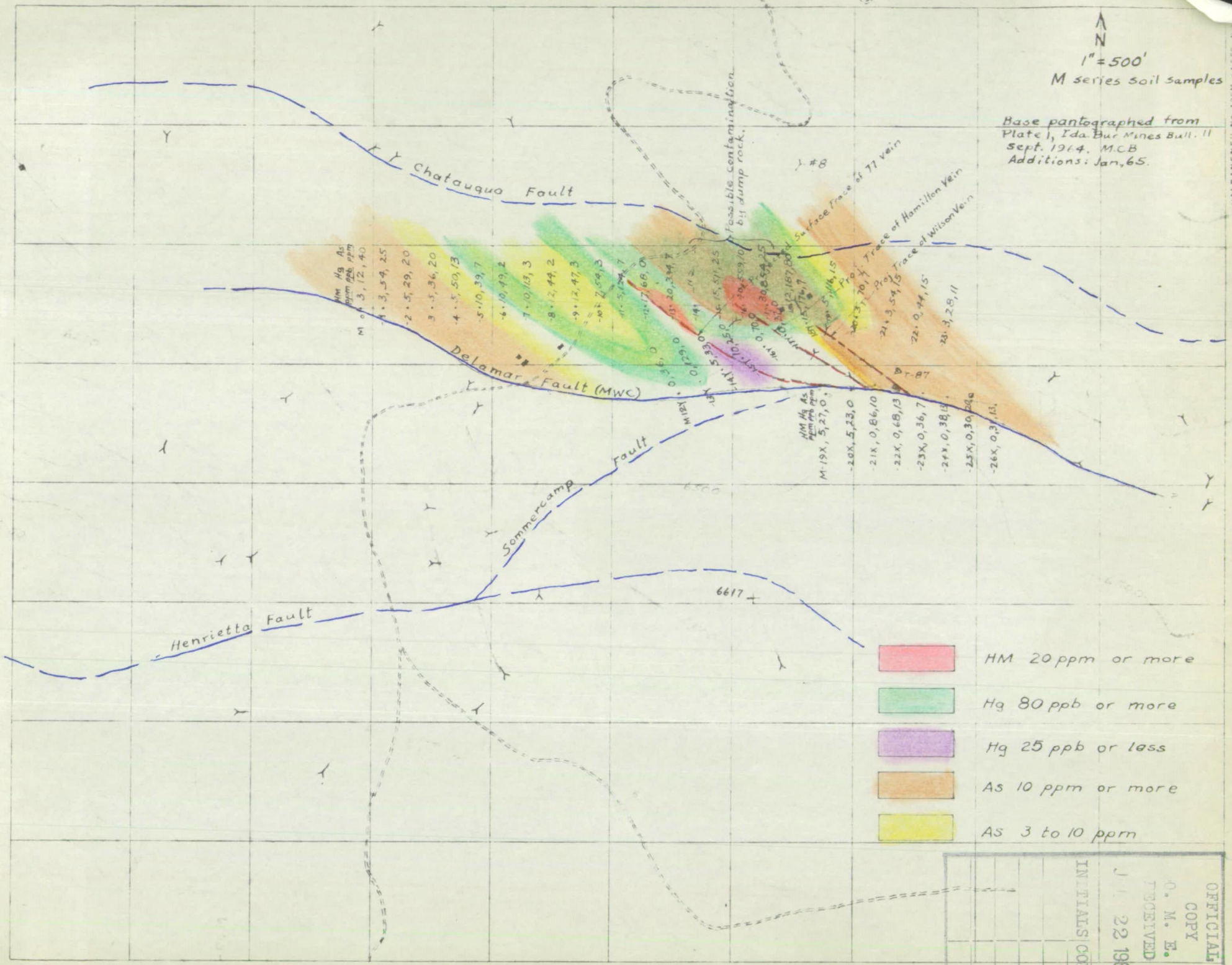

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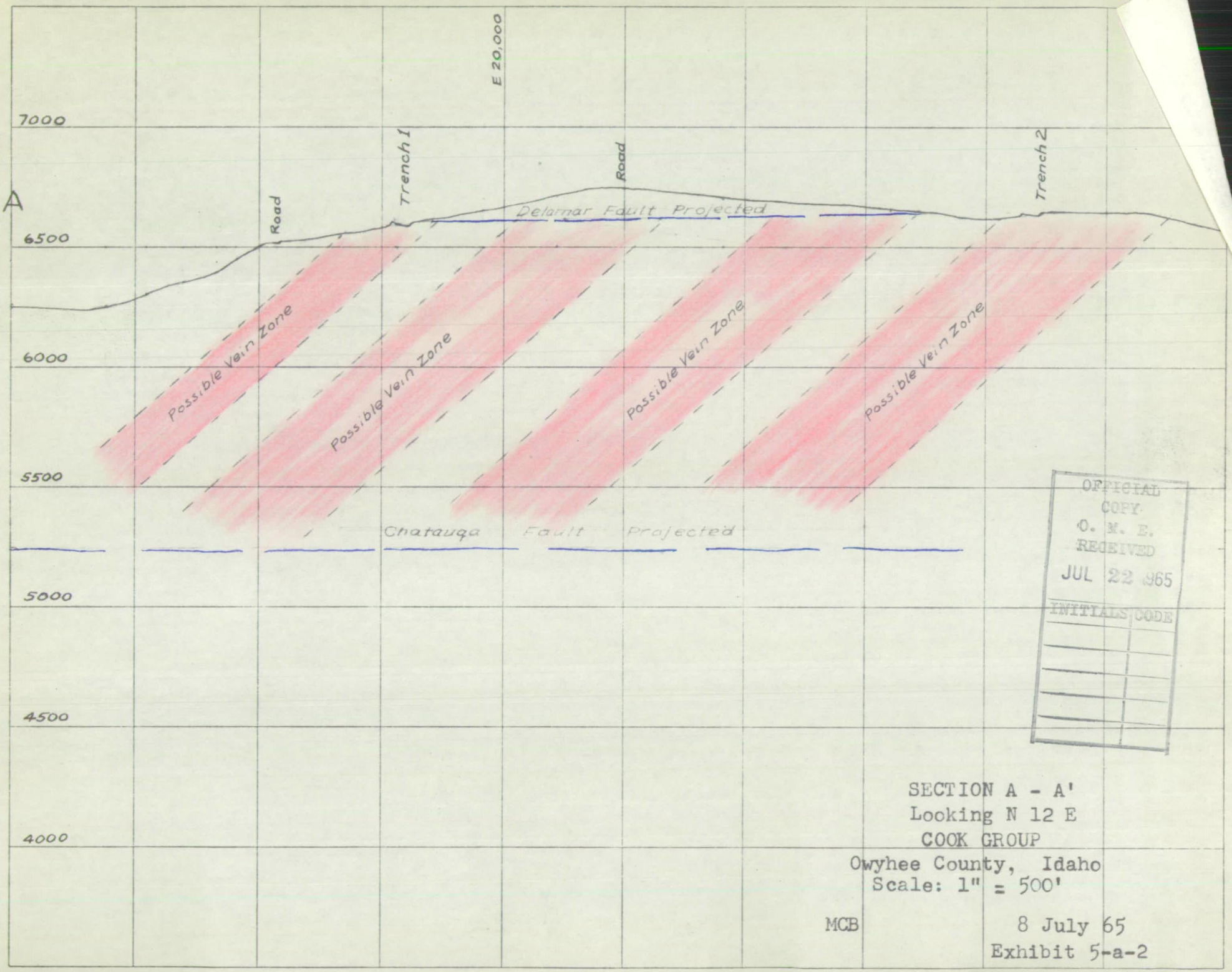
INITIALS CODE

"ALBANENE" NO. 195M. A.E.CO., N.
REG. U.S. PAT. OFF.

Plate 3



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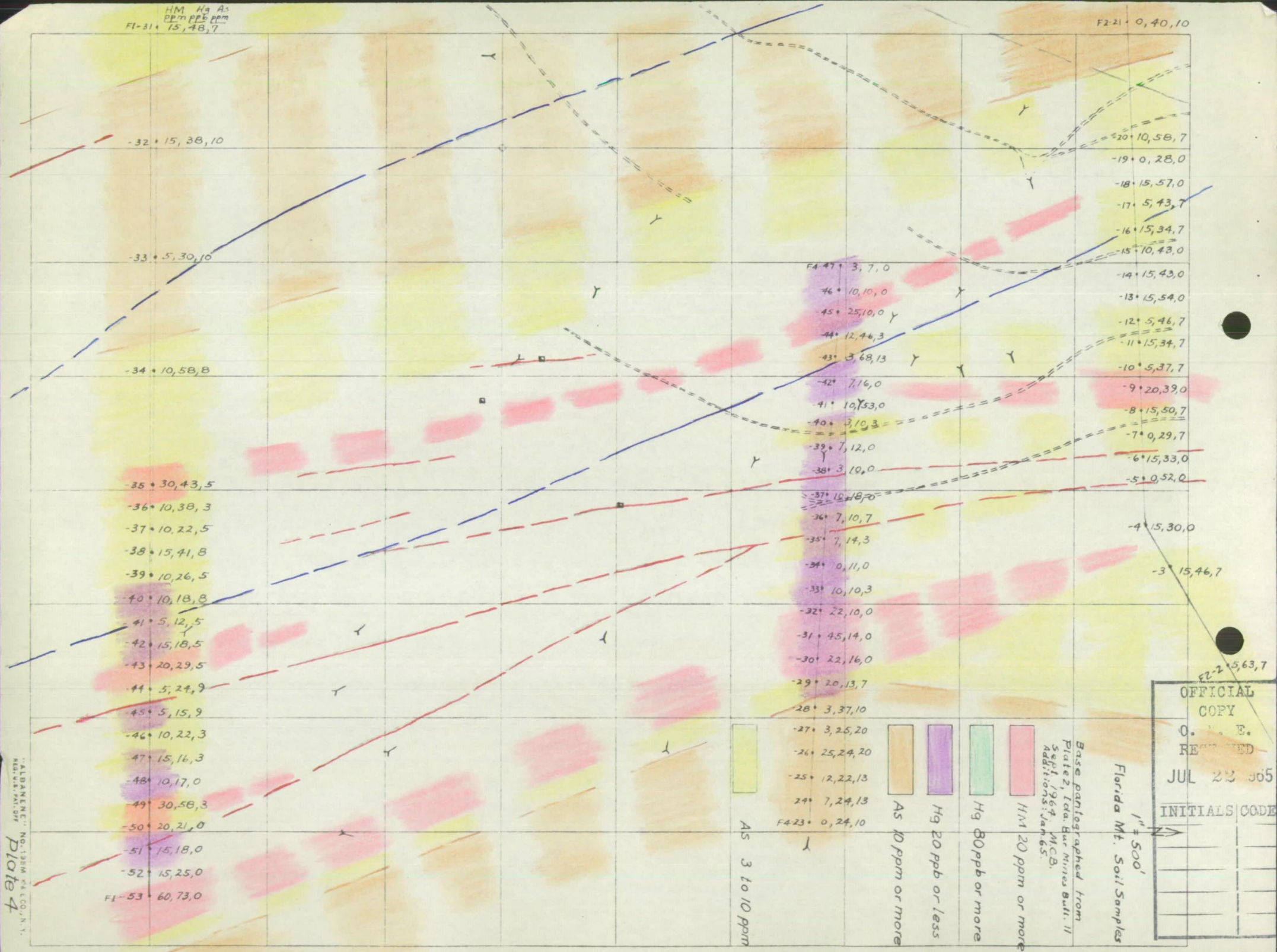
SECTION A - A'
Looking N 12 E
COOK GROUP
Owyhee County, Idaho
Scale: 1" = 500'

MCB

8 July 65
Exhibit 5-a-2


HM Hg As
ppm ppb ppm
F1-31 • 15, 48, 7
F2-21 • 0, 40, 10
-32 • 15, 38, 10
-33 • 5, 30, 10
-34 • 10, 58, 8
-35 • 30, 43, 5
-36 • 10, 38, 3
-37 • 10, 22, 5
-38 • 15, 41, 8
-39 • 10, 26, 5
-40 • 10, 18, 8
-41 • 5, 12, 5
-42 • 15, 18, 5
-43 • 20, 29, 5
-44 • 5, 24, 9
-45 • 5, 15, 9
-46 • 10, 22, 3
-47 • 15, 16, 3
-48 • 10, 17, 0
-49 • 30, 58, 3
-50 • 20, 21, 0
-51 • 15, 18, 0
-52 • 15, 25, 0
F1-53 • 60, 73, 0
F4-47 • 3, 7, 0
-46 • 10, 10, 0
-45 • 25, 10, 0
-44 • 12, 46, 3
-43 • 3, 68, 13
-42 • 7, 16, 0
-41 • 10, 53, 0
-40 • 3, 10, 3
-39 • 7, 12, 0
-38 • 3, 10, 0
-37 • 10, 18, 0
-36 • 7, 10, 7
-35 • 7, 14, 3
-34 • 0, 11, 0
-33 • 10, 10, 3
-32 • 22, 10, 0
-31 • 45, 14, 0
-30 • 22, 16, 0
-29 • 20, 13, 7
-28 • 3, 37, 10
-27 • 3, 25, 20
-26 • 25, 24, 20
-25 • 12, 22, 13
24 • 7, 24, 13
F4-23 • 0, 24, 10
-20 • 10, 58, 7
-19 • 0, 28, 0
-18 • 15, 57, 0
-17 • 5, 43, 7
-16 • 15, 34, 7
-15 • 10, 43, 0
-14 • 15, 43, 0
-13 • 15, 54, 0
-12 • 5, 46, 7
-11 • 15, 34, 7
-10 • 5, 37, 7
-9 • 20, 39, 0
-8 • 15, 50, 7
-7 • 0, 29, 7
-6 • 15, 33, 0
-5 • 0, 52, 0
-4 • 15, 30, 0
-3 • 15, 46, 7
F2-2 • 5, 63, 7
As 3 to 10 ppm
As 10 ppm or more
Hg 20 ppb or less
Hg 80 ppb or more
HM 20 ppm or more
Base panlegraphed from Plate 2, Idaho Bur Mines Bull. 11 Sept. 1964. M.C.B. Additions: Jan 65.
1" = 500'
Florida Mt. Soil Samples
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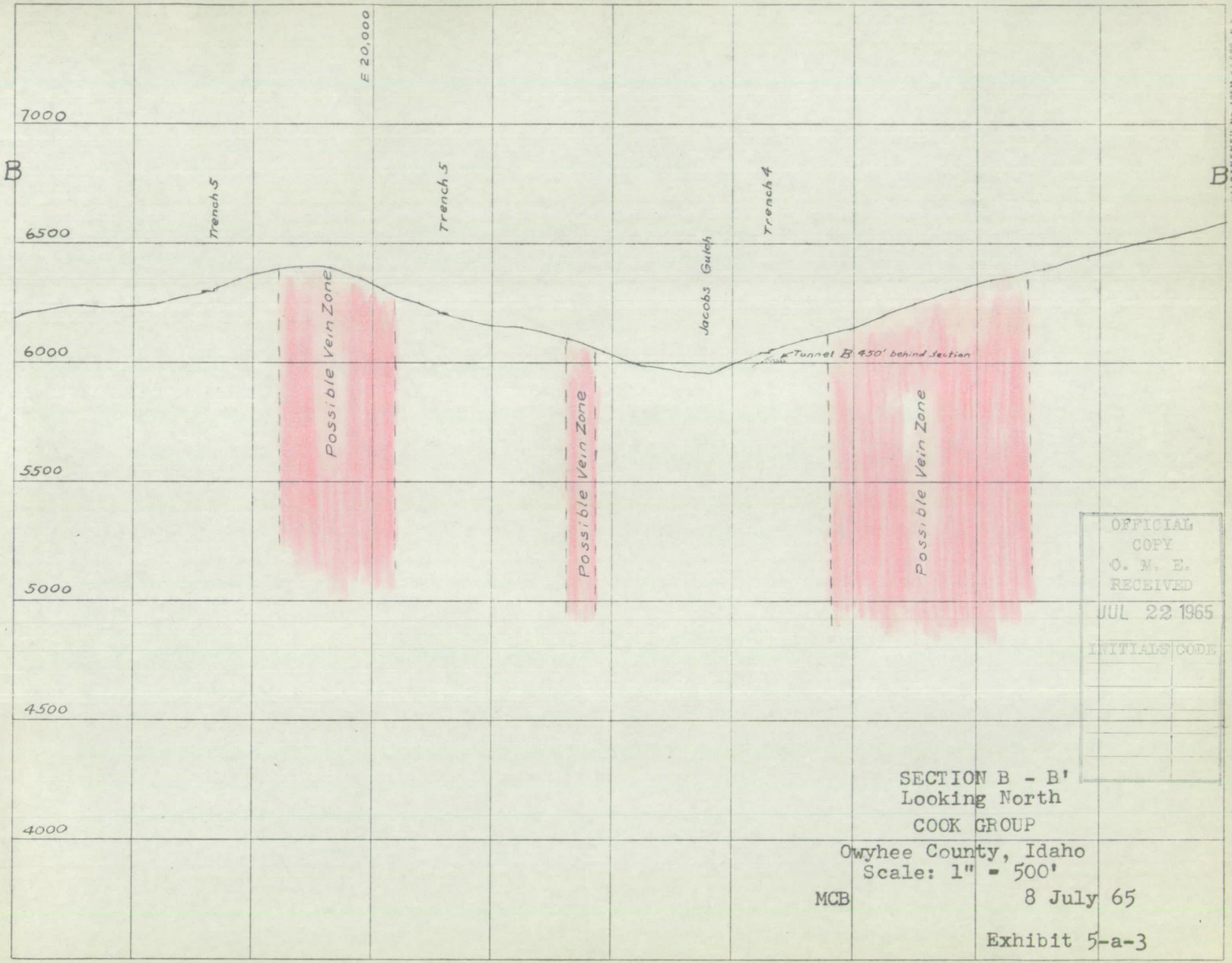
JUL 22 1965
INITIALS CODE
"ALBANENE" No. 1 25M 4/64 E.C.O., N.Y.
REG. U.S. PAT. OFF.
Plate 4



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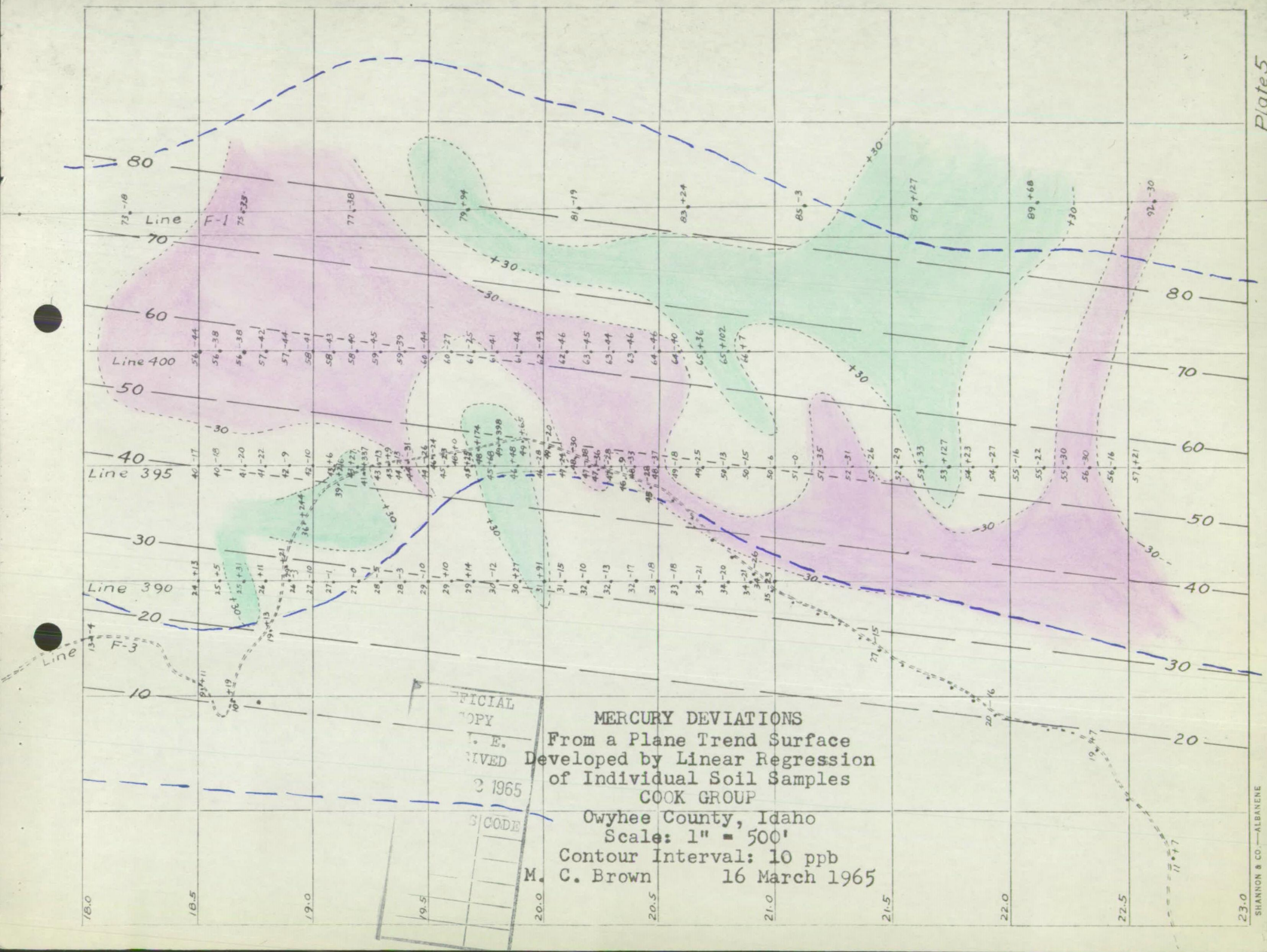
JUL 22 1965
INITIALS CODE

SECTION B - B'
Looking North
COOK GROUP
Owyhee County, Idaho
Scale: 1" = 500'
MCB 8 July 65

Exhibit 5-a-3

46



MERCURY DEVIATIONS
From a Plane Trend Surface
Developed by Linear Regression
of Individual Soil Samples
COOK GROUP
Owyhee County, Idaho
Scale: 1" = 500'
Contour Interval: 10 ppb
M. C. Brown 16 March 1965

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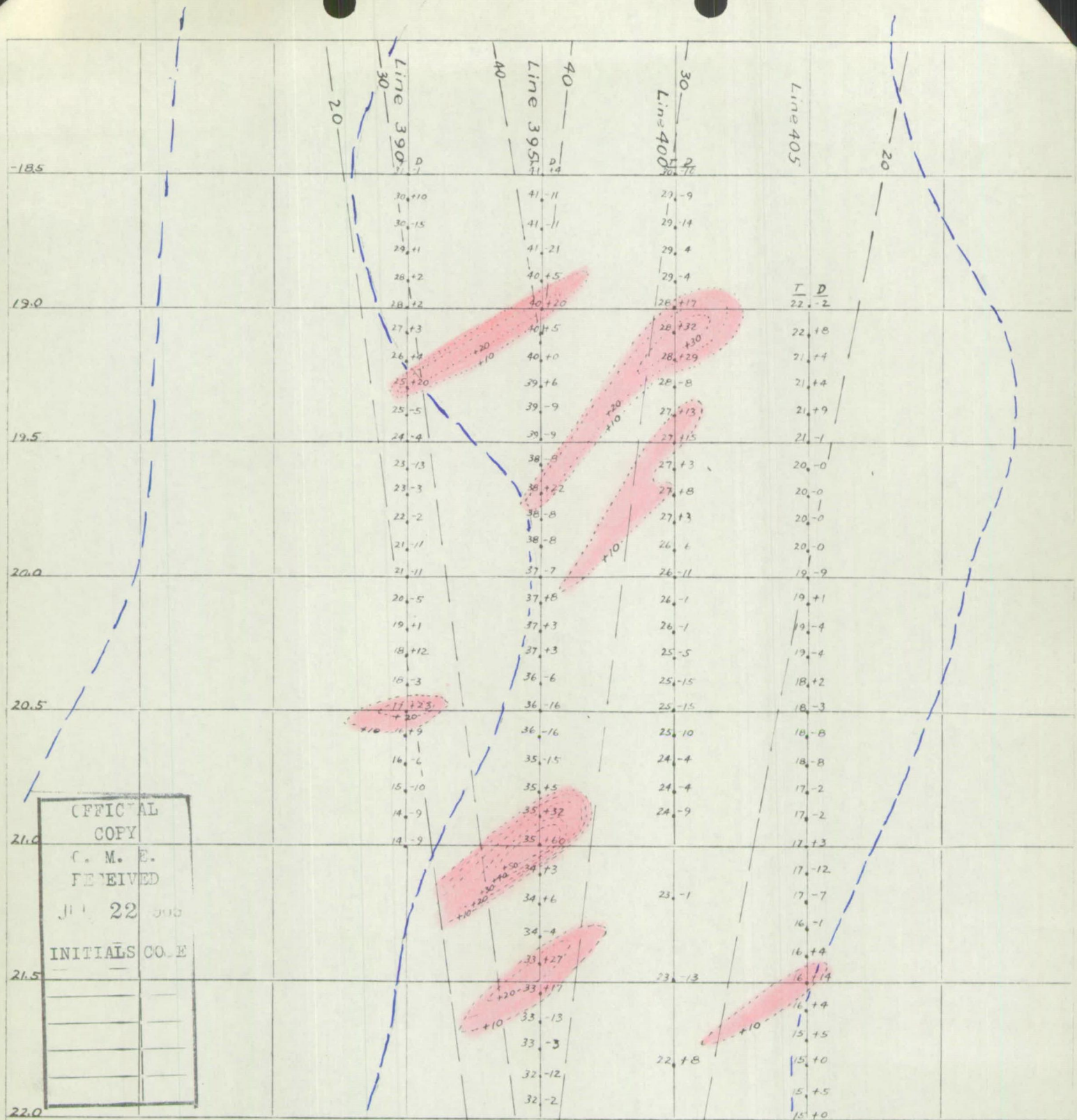
2 1965
CODE



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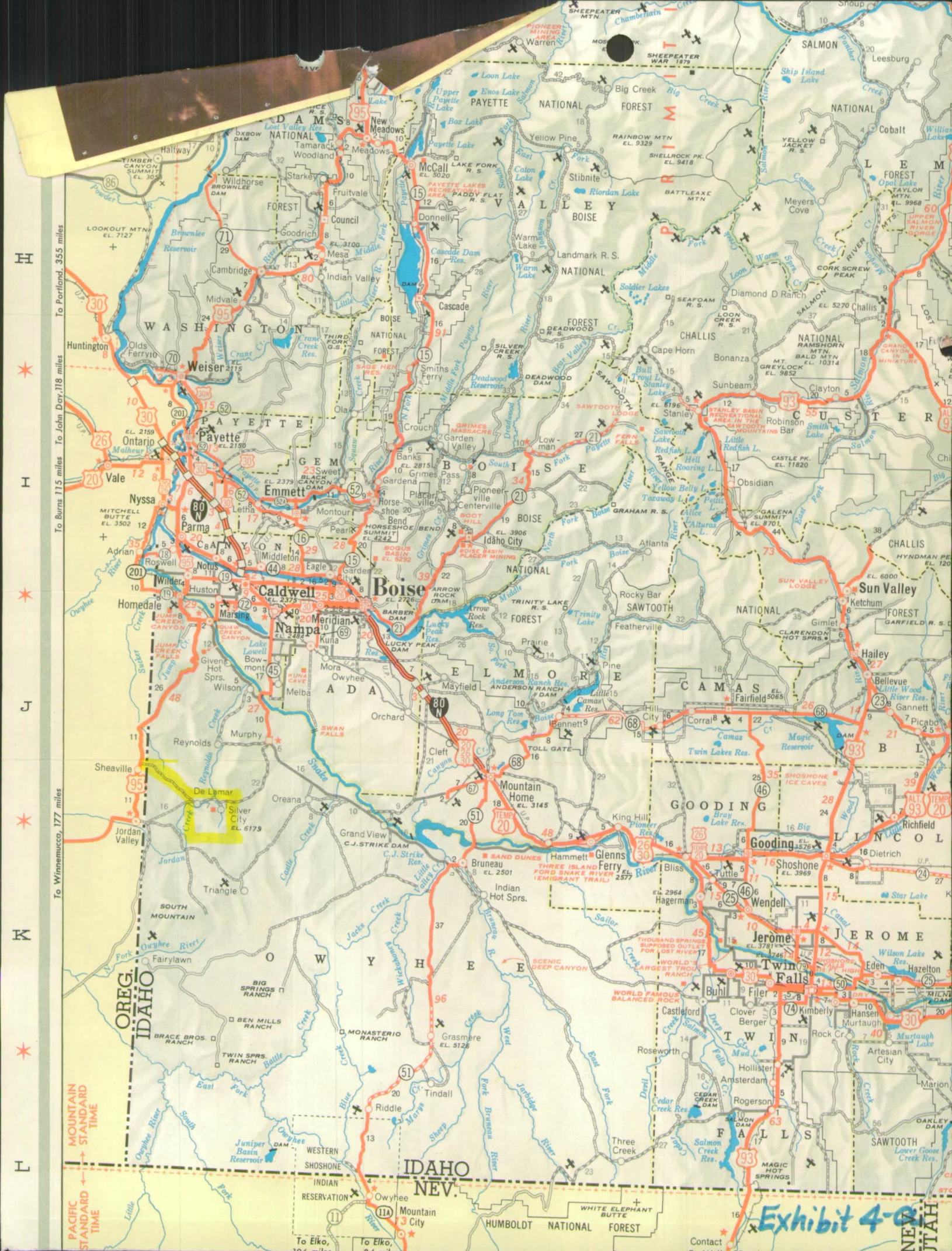
JUL 22 1965
INITIALS CODE

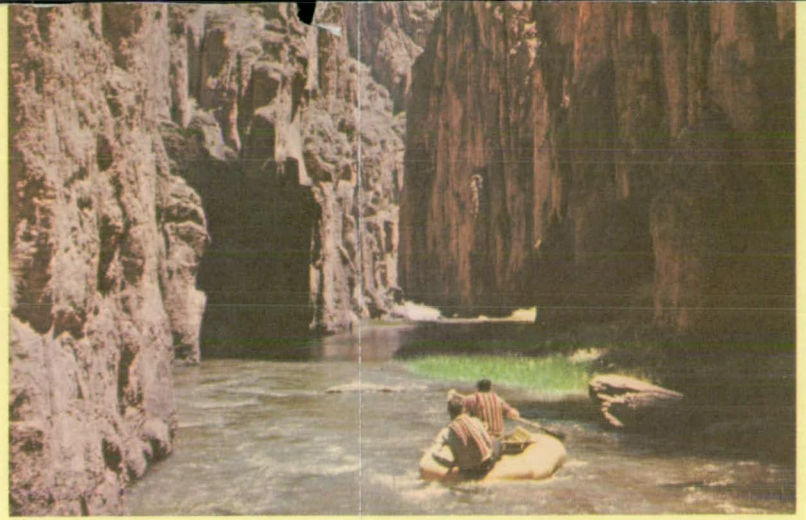
HEAVY METALS DEVIATIONS
From Trend Surface
Developed by Linear Regression
of individual soil sample lines
COOK GROUP
Owyhee County, Idaho
Scale: 1" = 500'
Contour Interval: 10 ppm
M. C. Brown 14 March 1965

SHANNON & CO.—ALBANENE


Boise
Caldwell
Nampa
Meridian
Emmett
Payette
Weiser
Ontario
Mountain Home
Gooding
Twin Falls
Jerome
Hailey
Sun Valley
Ketchum
Salmon
Challis
Stanley
McCall
New Meadows
Cascade
Donnelly
Council
Grangeville
Lewiston
Orchard
Glenns Ferry
Bruneau
Mountain City
Owyhee
Contact
To Portland, 355 miles
To John Day, 118 miles
To Burns 115 miles
To Winnemucca, 177 miles
To Elko,
To Elko,
OREG.
IDAHO
NEV.
UTAH
MOUNTAIN STANDARD TIME
PACIFIC STANDARD TIME
WASHINGTON
PAYETTE
GEM
BOISE
ADA
ELMORE
CAMAS
GOODING
LINCOLN
JEROME
TWIN FALLS
OWYHEE
CUSTER
LEMHI
CHALLIS
SALMON
BOISE NATIONAL FOREST
SAWTOOTH NATIONAL FOREST
HUMBOLDT NATIONAL FOREST
WESTERN SHOSHONE INDIAN RESERVATION
Exhibit 4-6

ucation, Entertainment and Exciting Athletic Events

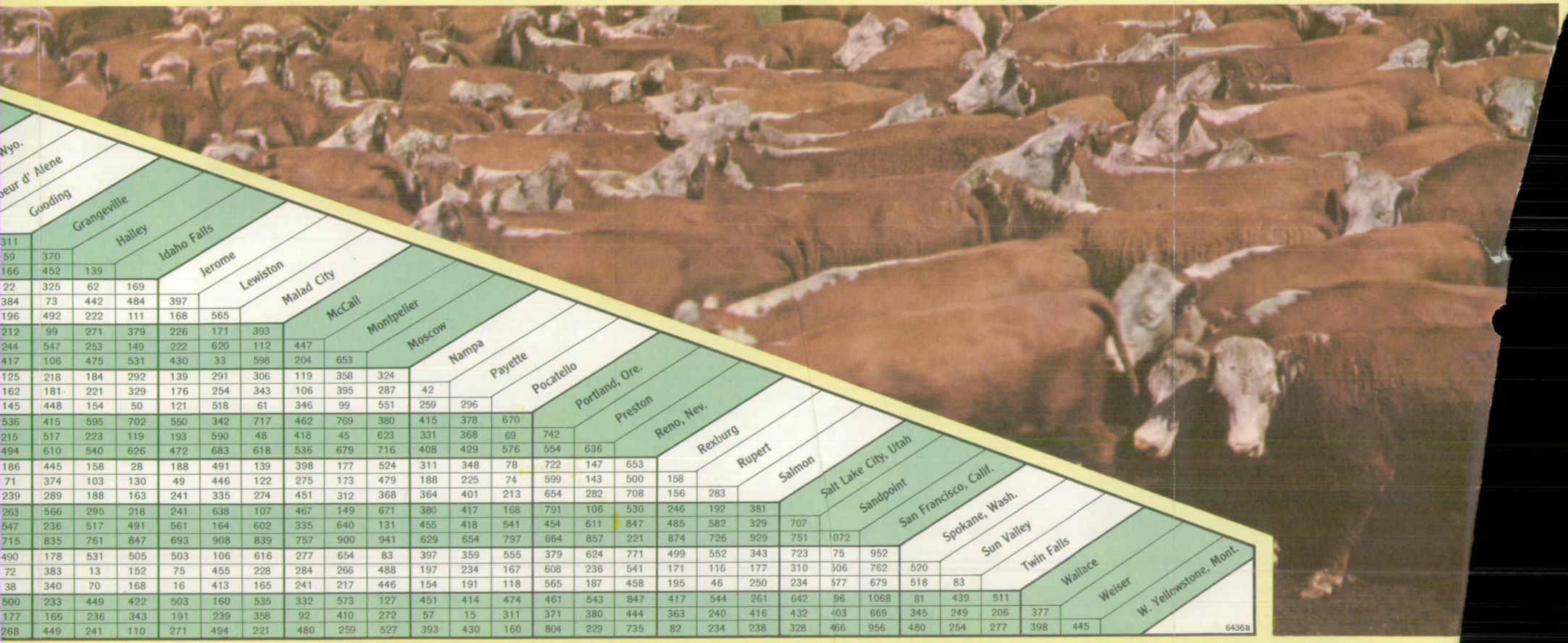
for . . . A Variety of Unexcelled Bird Hunting



for . . . Rough and Rugged Scenic Canyons

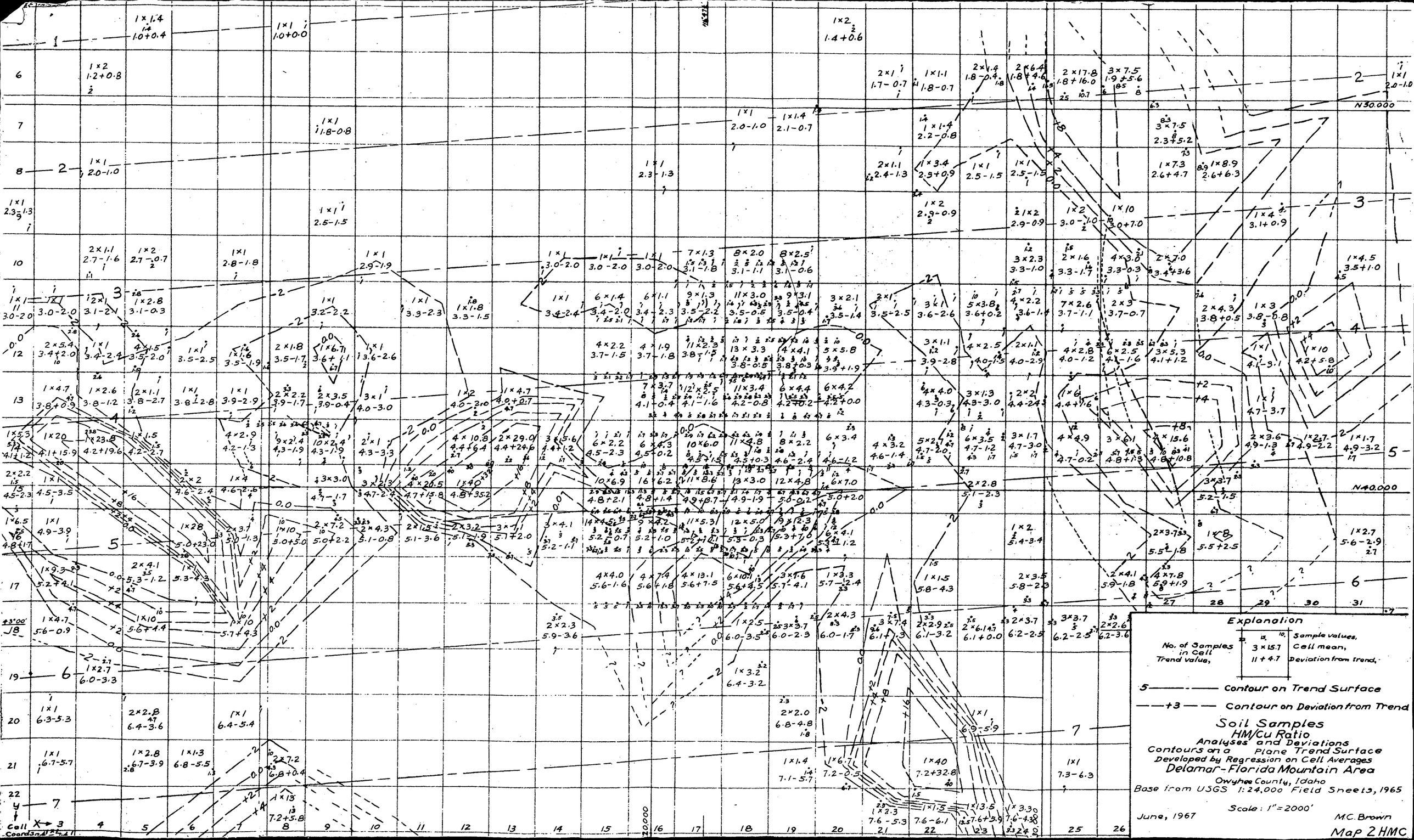
part of your trip is YOU . . . BE A SAFE DRIVER

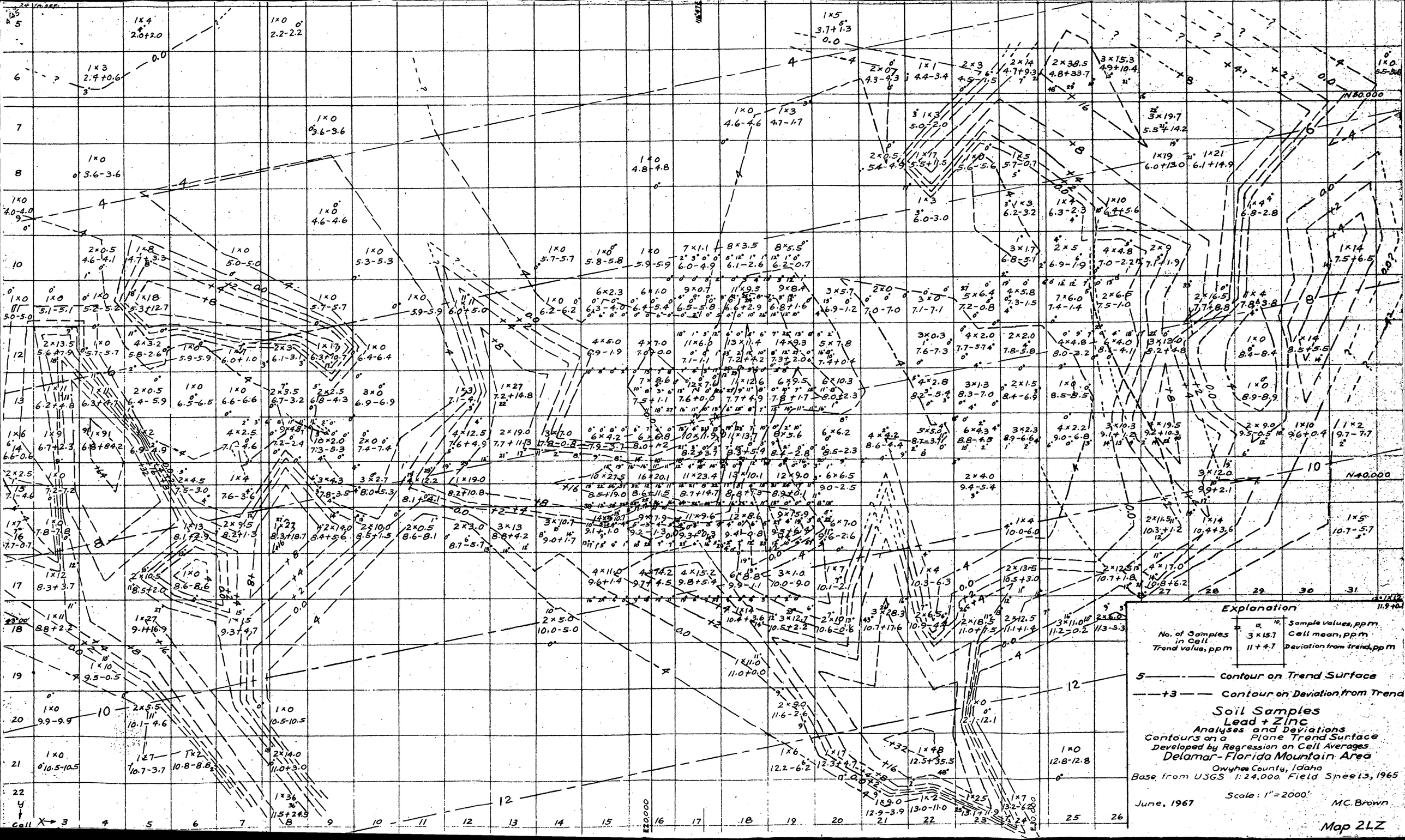
for . . . Top Grade Cattle Production

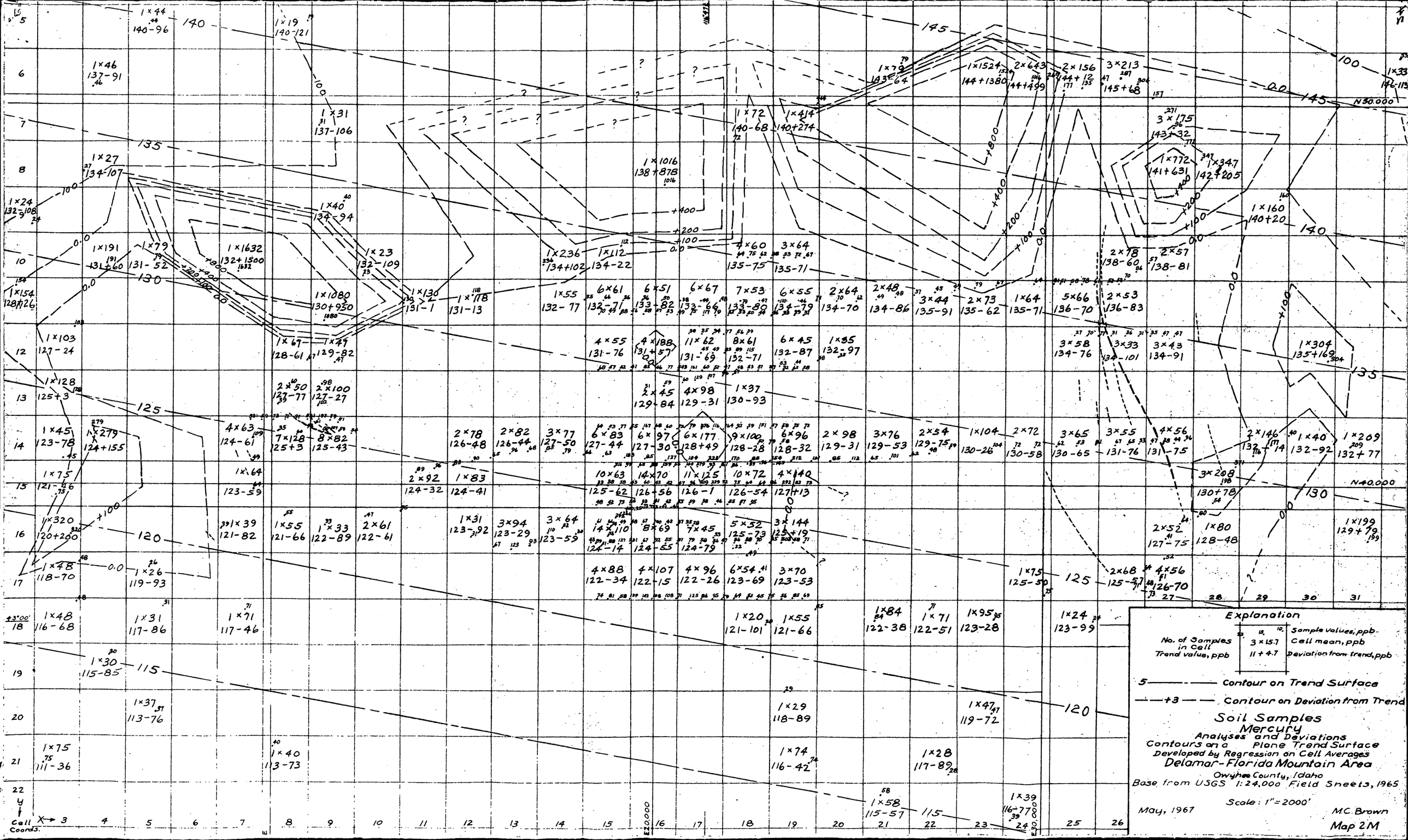


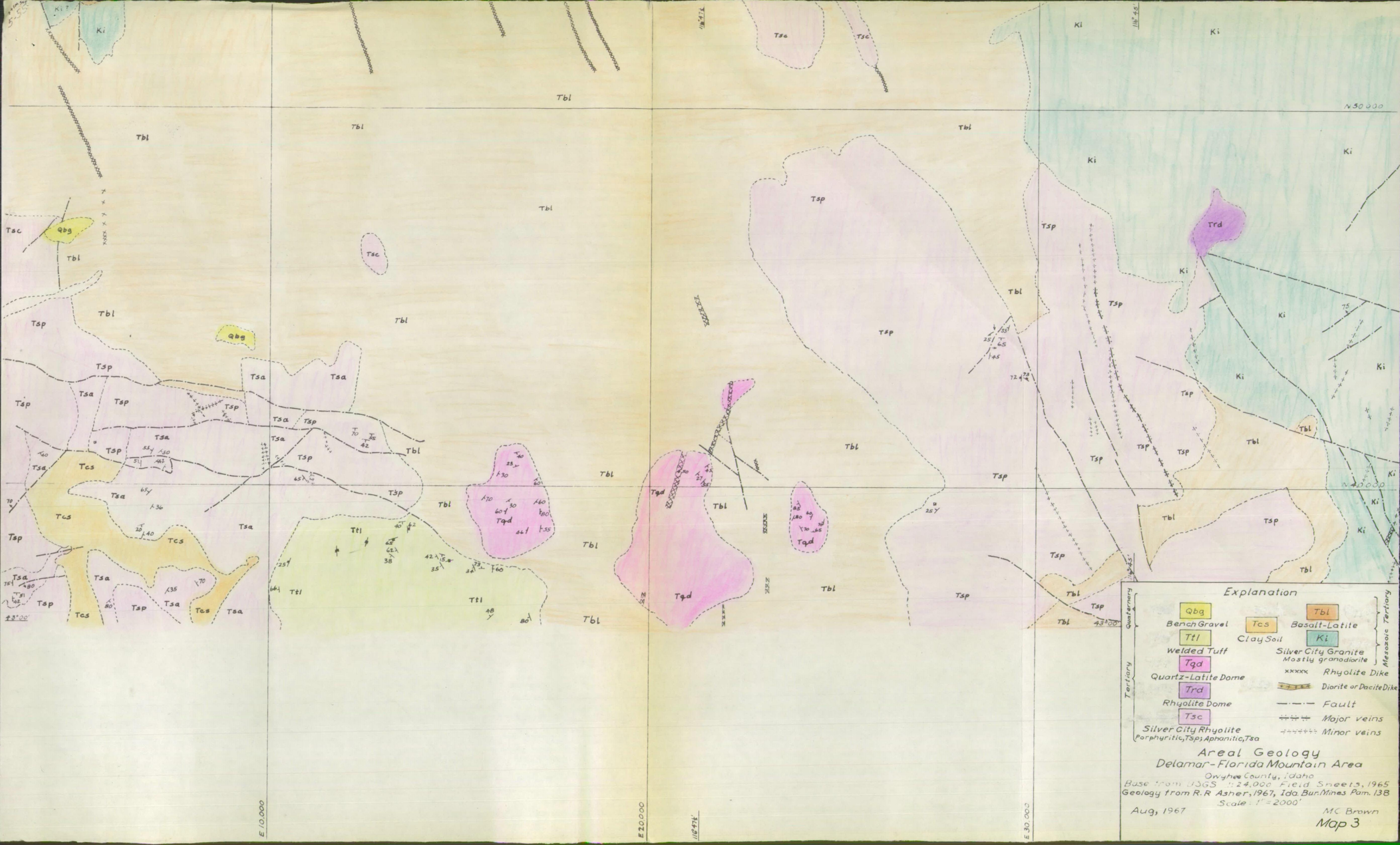
	Wyo.	Coeur d' Alene	Gooding	Grangeville	Hailey	Idaho Falls	Jerome	Lewiston	Malad City	McCall	Montpelier	Moscow	Nampa	Payette	Pocatello	Portland, Ore.	Preston	Reno, Nev.	Rexburg	Rupert	Salmon	Salt Lake City, Utah	Sandpoint	San Francisco, Calif.	Spokane, Wash.	Sun Valley	Twin Falls	Wallace	Weiser	W. Yellowstone, Mont.
Wyo.		311	59	166	22	384	196	212	244	417	125	162	145	536	215	494	186	71	239	263	547	715	490	72	38	500	177	268
Coeur d' Alene			370	452	325	73	492	99	547	106	218	181	448	415	517	610	445	374	289	566	236	835	178	383	340	233	166	449
Gooding				139	62	442	222	271	253	475	184	221	154	595	223	540	158	103	188	295	517	761	531	13	70	449	236	241
Grangeville					169	484	111	379	149	531	292	329	50	702	119	626	28	130	163	218	491	847	505	152	168	422	343	110
Hailey						397	168	226	222	430	139	176	121	550	193	472	188	49	241	241	561	693	503	75	16	503	191	271
Idaho Falls							565	171	620	33	291	254	518	342	590	683	491	446	335	638	164	908	106	455	413	160	239	494
Jerome								393	112	598	306	343	61	717	48	618	139	122	274	107	602	839	616	228	165	535	358	221
Lewiston									447	204	119	106	346	462	418	536	398	275	451	467	335	757	277	284	241	332	92	480
Malad City										653	358	395	99	769	45	679	177	173	312	149	640	900	654	266	217	573	410	259
McCall											324	287	551	380	623	716	524	479	368	671	131	941	83	488	446	127	272	527
Montpelier												42	259	415	331	408	311	188	364	380	455	629	397	197	154	451	57	393
Moscow													296	378	368	429	348	225	401	417	418	654	359	234	191	414	15	430
Nampa														670	69	576	78	74	213	168	541	797	555	167	118	474	311	160
Payette															742	554	722	599	654	791	454	664	379	608	565	461	371	804
Pocatello																636	147	143	282	106	611	857	624	236	187	543	380	229
Portland, Ore.																	653	500	708	530	847	221	771	541	458	847	444	735
Preston																		158	156	246	485	874	499	171	195	417	363	82
Reno, Nev.																			283	192	582	726	552	116	46	544	240	234
Rexburg																				381	329	929	343	177	250	261	416	238
Rupert																					707	751	723	310	234	642	432	328
Salmon																						1072	75	306	577	96	403	466
Salt Lake City, Utah																							952	762	679	1068	669	956
Sandpoint																								520	518	81	345	480
San Francisco, Calif.																									83	439	249	254
Spokane, Wash.																										511	206	277
Sun Valley																											377	398
Twin Falls																												445
Wallace																												
Weiser																												
W. Yellowstone, Mont.																												

6436B

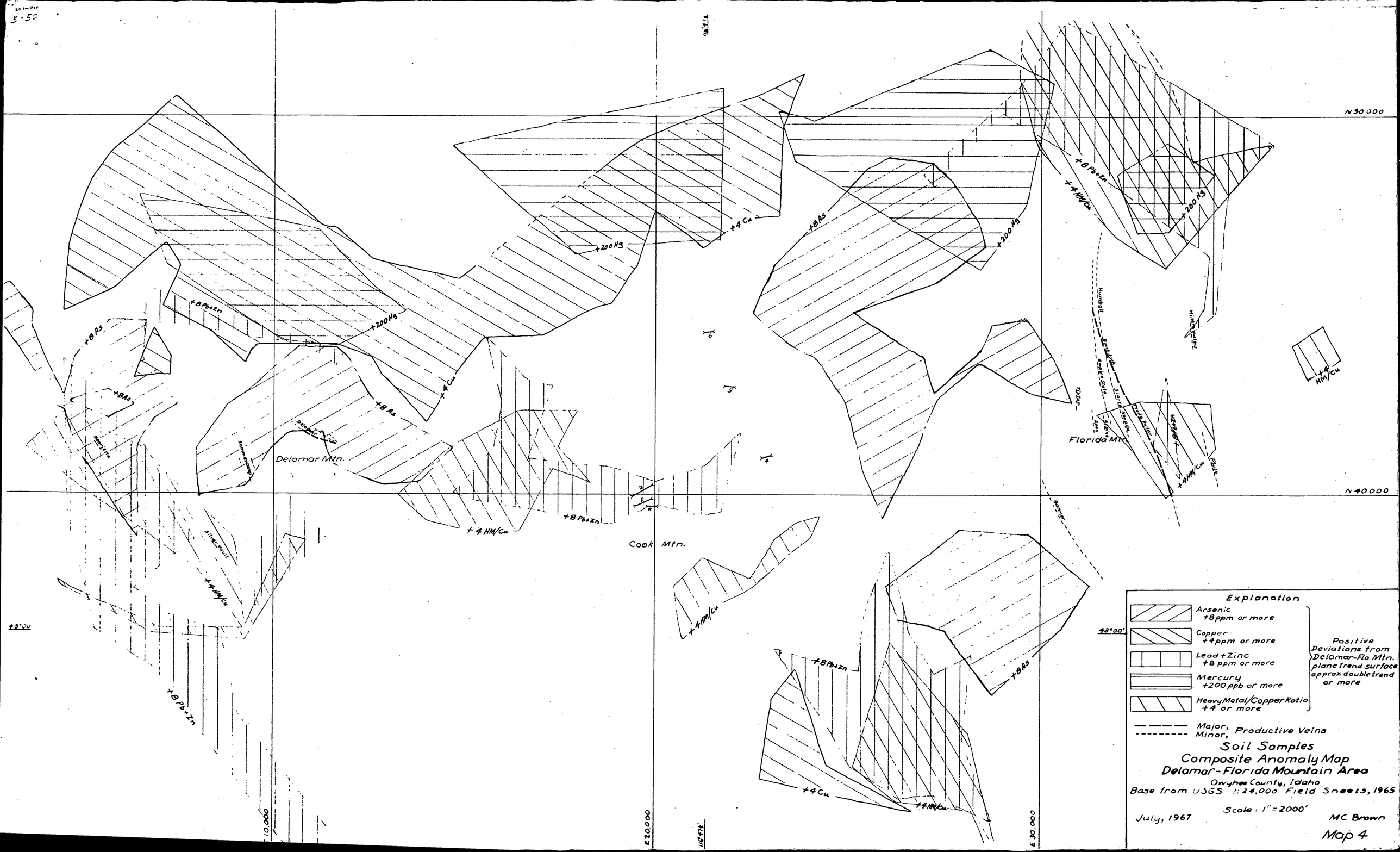

Explanation
No. of Samples in Cell
Trend value,
Sample values,
Cell mean,
Deviation from trend,
Contour on Trend Surface
Contour on Deviation from Trend
Soil Samples
HM/Cu Ratio
Analyses and Deviations
Contours on a Plane Trend Surface
Developed by Regression on Cell Averages
Delamar-Florida Mountain Area
Owyhee County, Idaho
Base from USGS 1:24,000 Field Sheets, 1965
Scale: 1"=2000'
June, 1967
M.C. Brown
Map 2 HMC
N30,000
N40,000
Cell Coord

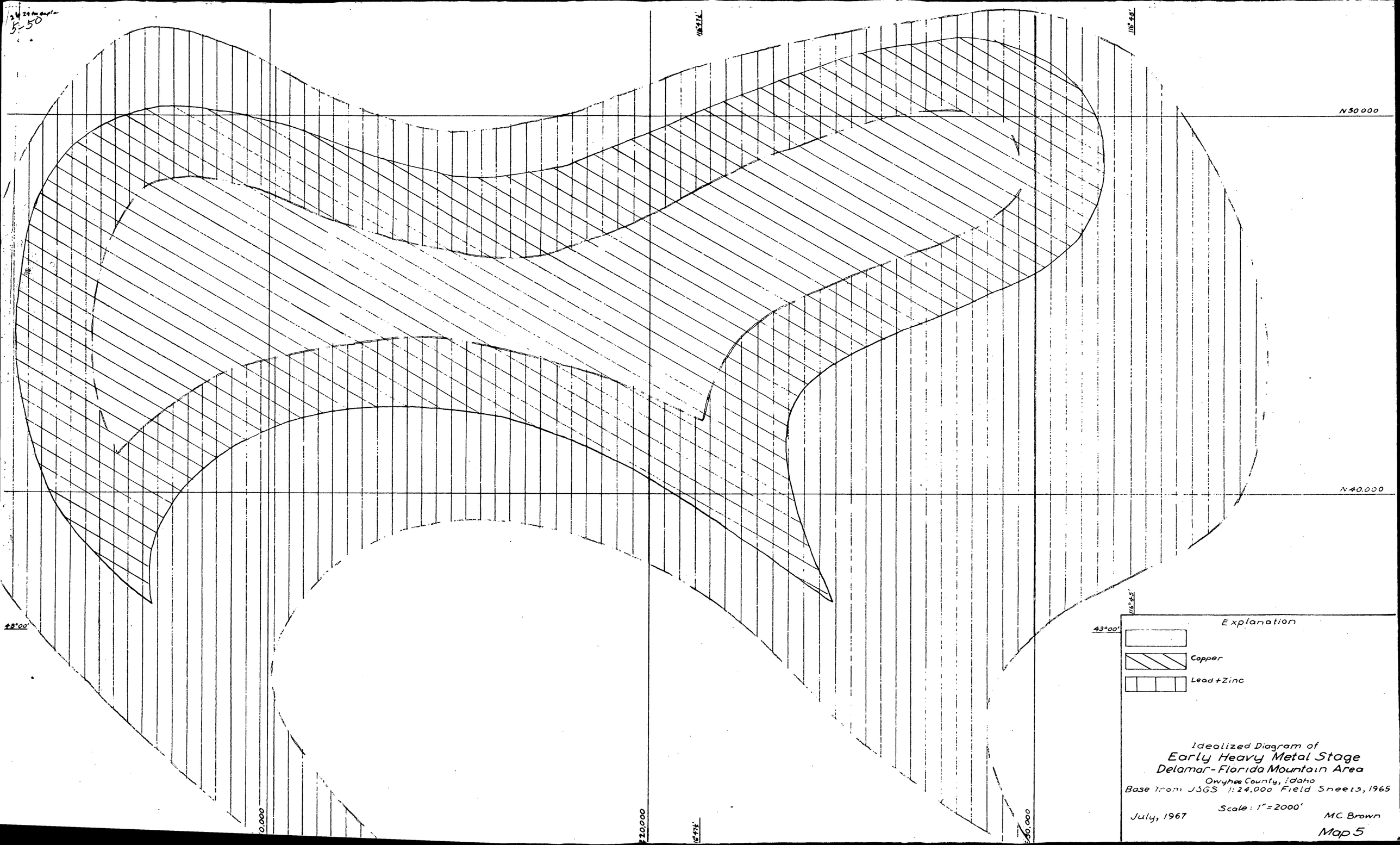

Explanation
No. of Samples in Cell
Trend value, ppm
3 × 15.7
11 + 4.7
Sample values, ppm
Cell mean, ppm
Deviation from trend, ppm
Contour on Trend Surface
Contour on Deviation from Trend
Soil Samples
Lead + Zinc
Analyses and Deviations
Contours on a Plane Trend Surface
Developed by Regression on Cell Averages
Delamar-Florida Mountain Area
Owyhee County, Idaho
Base from USGS 1:24,000 Field Sheets, 1965
Scale: 1" = 2000'
June, 1967
M.C. Brown
Map 2LZ
N50,000
N40,000
E20,000
E30,000
Cell X → 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26
Y 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22
27 28 29 30 31

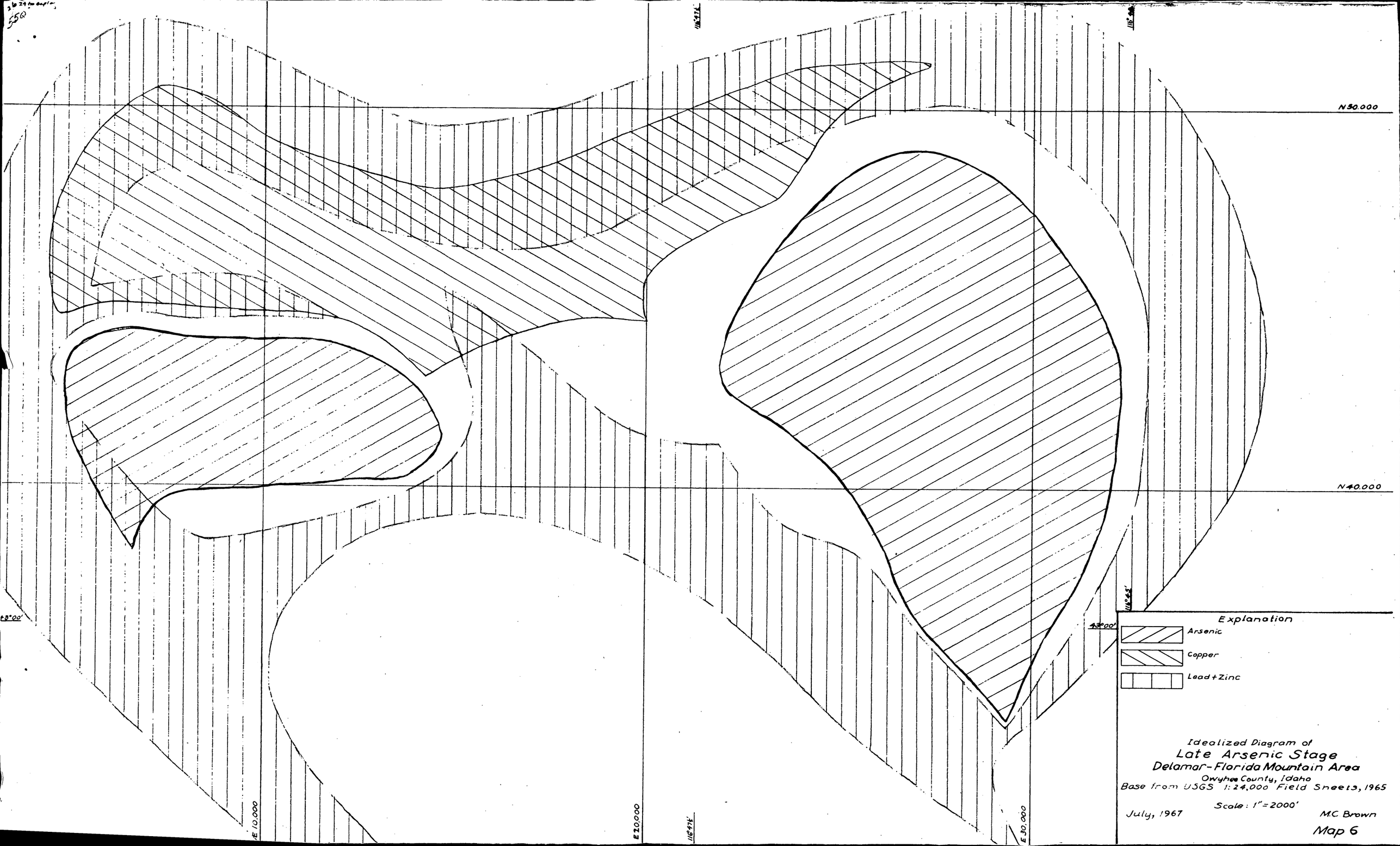

Explanation
No. of Samples in Cell
Trend value, ppb
Sample values, ppb
Cell mean, ppb
Deviation from trend, ppb
3 × 15.7
11 + 4.7
Contour on Trend Surface
Contour on Deviation from Trend
Soil Samples
Mercury
Analyses and Deviations
Contours on a Plane Trend Surface
Developed by Regression on Cell Averages
Delamar-Florida Mountain Area
Owyhee County, Idaho
Base from USGS 1:24,000 Field Sheets, 1965
Scale: 1" = 2000'
May, 1967
M.C. Brown
Map 2M
N30,000
N40,000
E20,000
E30,000
Cell Coords.


Explanation
Quaternary
Qbg
Bench Gravel
Tcs
Clay Soil
Tertiary
Ttl
Welded Tuff
Tqd
Quartz-Latite Dome
Trd
Rhyolite Dome
Tsc
Silver City Rhyolite
Porphyritic, Tsp; Aphanitic, Tsa
Tbl
Basalt-Latite
Ki
Silver City Granite
Mostly granodiorite
Mesozoic Tertiary
Rhyolite Dike
Diorite or Dacite Dike
Fault
Major veins
Minor veins
Areal Geology
Delamar-Florida Mountain Area
Owyhee County, Idaho
Base from USGS 1:24,000 Field Sheets, 1965
Geology from R.R Asher, 1967, Ida. Bur. Mines Pam. 138
Scale: 1" = 2000'
Aug, 1967
MC Brown
Map 3
N 50,000
N 40,000
E 10,000
E 20,000
E 30,000
116°45'
43°00'

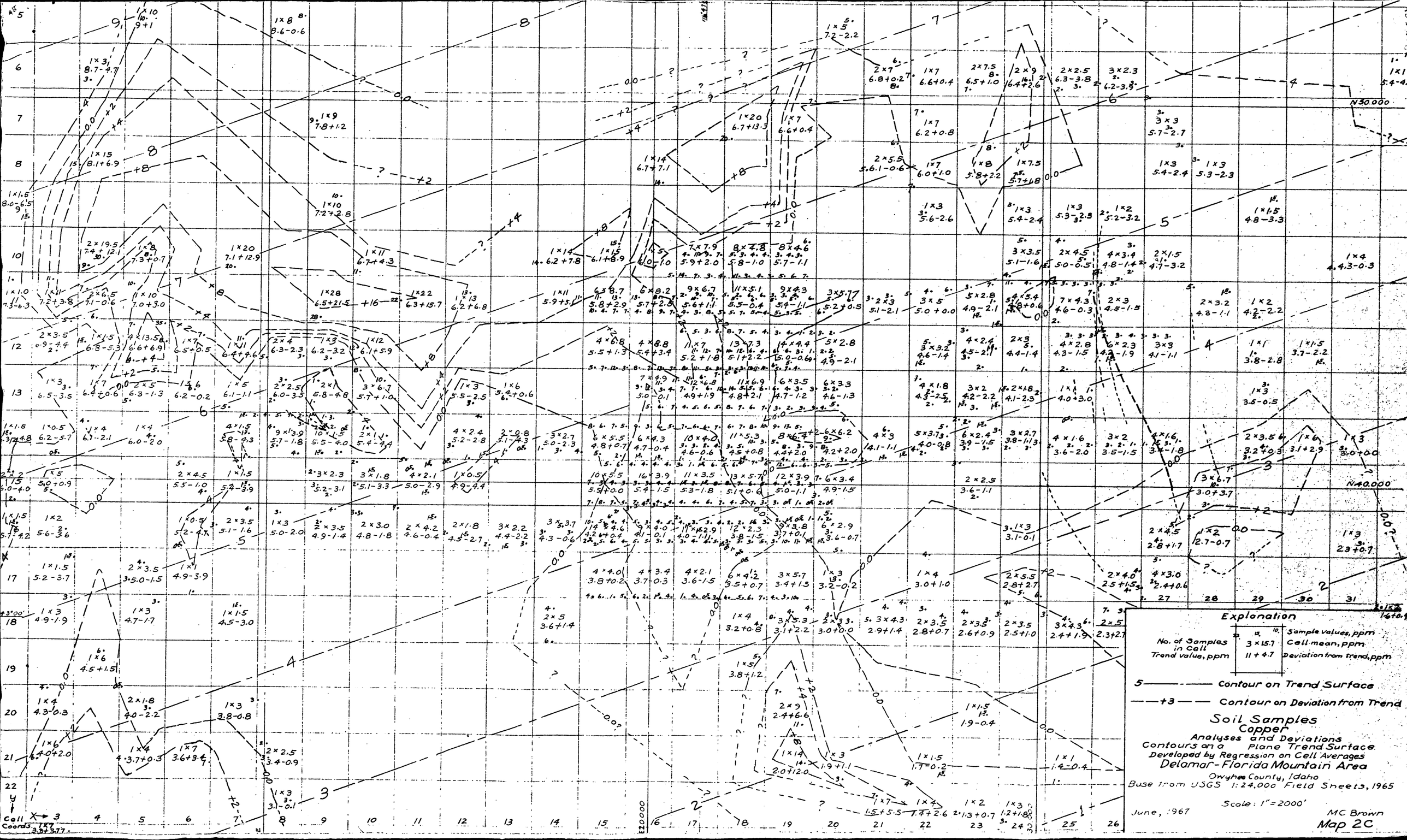
5-50

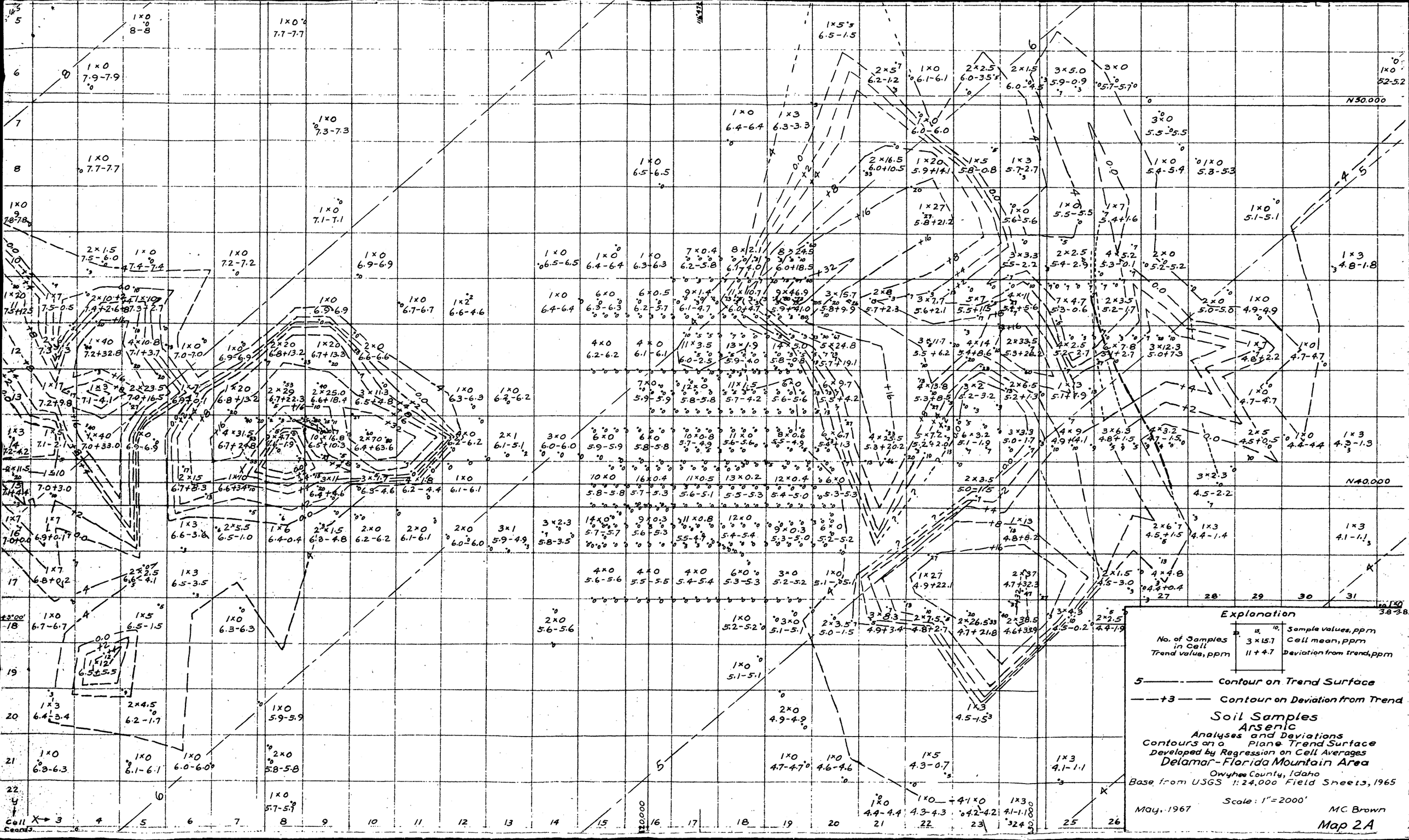

N 50,000
N 40,000
E 10,000
E 20,000
E 30,000
43°00'
Delamar Mtn.
Cook Mtn.
Florida Mtn.
Humbolt
Blue Lake
Silver Vault
Mercury
Summerdale
Belshaz
Banner
Pride
+8 As
+8 Pb+Zn
+200 Hg
+4 Cu
+4 HM/Cu
Explanation
Arsenic +8ppm or more
Copper +4ppm or more
Lead + Zinc +8 ppm or more
Mercury +200 ppb or more
Heavy Metal/Copper Ratio +4 or more
Positive deviations from Delamar-Fla. Mtn. plane trend surface approx. double trend or more
Major, Minor, Productive Veins
Soil Samples
Composite Anomaly Map
Delamar-Florida Mountain Area
Owyhee County, Idaho
Base from USGS 1:24,000 Field Sheets, 1965
Scale: 1" = 2000'
July, 1967
MC Brown
Map 4

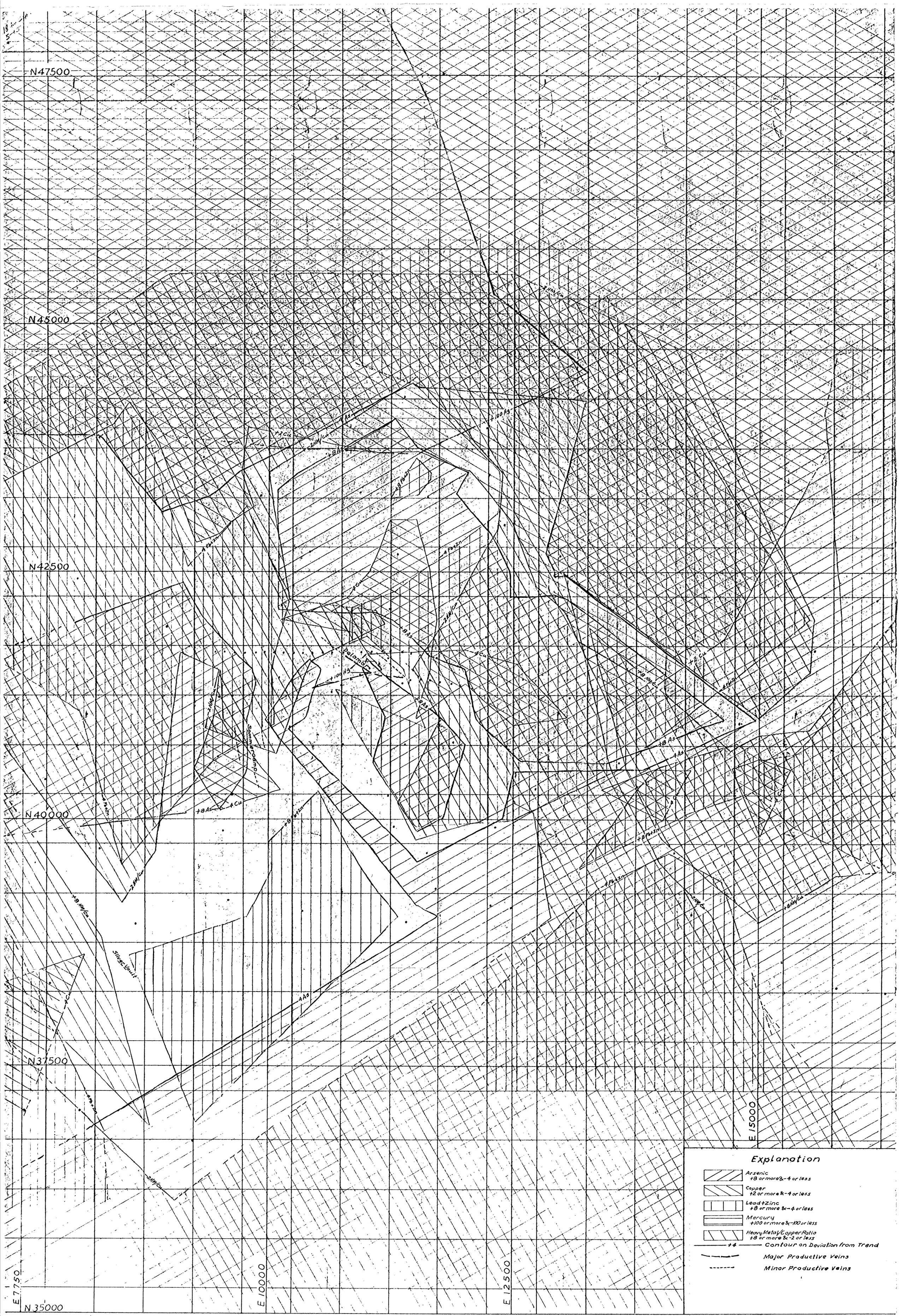

N 50 000
N 40,000
43°00'
116°45'
Explanation
Copper
Lead + Zinc
Idealized Diagram of
Early Heavy Metal Stage
Delamar-Florida Mountain Area
Owyhee County, Idaho
Base from USGS 1:24,000 Field Sheets, 1965
Scale: 1" = 2000'
July, 1967
MC Brown
Map 5


N50.000
N40.000
E10.000
E20.000
E30.000
43°00'
Explanation
Arsenic
Copper
Lead+Zinc
Idealized Diagram of
Late Arsenic Stage
Delamar-Florida Mountain Area
Owyhee County, Idaho
Base from USGS 1:24,000 Field Sheets, 1965
Scale: 1"=2000'
July, 1967
M.C. Brown
Map 6

Delamar Mtn.
Cook Mtn.
Florida Mtn.
Explanation
Arsenic
+8 or more & -4 or less
Copper
+2 or more & -4 or less
Lead + Zinc
+8 or more & -4 or less
Mercury
+100 or more & -100 or less
Heavy Metal/Copper Ratio
+8 or more & -2 or less
Deviations from Delamar-Flo. Mtn. plane trend surface
Major, Productive Veins
Minor,
Soil Samples
Composite Anomaly Map
Delamar-Florida Mountain Area
Base from USGS 1:24,000 Field Sheets, 1965
Scale 1" = 2000'
July, 1967
M.C. Brown
Map 7


Explanation
No. of Samples in Cell
Trend value, ppm
Sample values, ppm
Cell mean, ppm
Deviation from trend, ppm
Contour on Trend Surface
Contour on Deviation from Trend
Soil Samples
Copper
Analyses and Deviations
Contours on a Plane Trend Surface
Developed by Regression on Cell Averages
Delamar-Florida Mountain Area
Owyhee County, Idaho
Base from USGS 1:24,000 Field Sheets, 1965
Scale: 1" = 2000'
June, 1967
M.C. Brown
Map 2C
N30,000
N40,000
Cell Coords.


N30,000
N40,000
Explanation
No. of Samples in Cell
Trend value, ppm
3 × 15.7
11 + 4.7
Sample values, ppm
Cell mean, ppm
Deviation from trend, ppm
Contour on Trend Surface
Contour on Deviation from Trend
Soil Samples
Arsenic
Analyses and Deviations
Contours on a Plane Trend Surface
Developed by Regression on Cell Averages
Delamar-Florida Mountain Area
Owyhee County, Idaho
Base from USGS 1:24,000 Field Sheets, 1965
Scale: 1" = 2000'
May, 1967
M.C. Brown
Map 2A
Cell
Coords.



Base from USGS 1:24,000 Field Sheets, 1965
Additions by compass & tape and pace
Drawn July, 1967 M.C. Brown

DELAMAR MOUNTAIN AREA

OWYHEE COUNTY, IDAHO

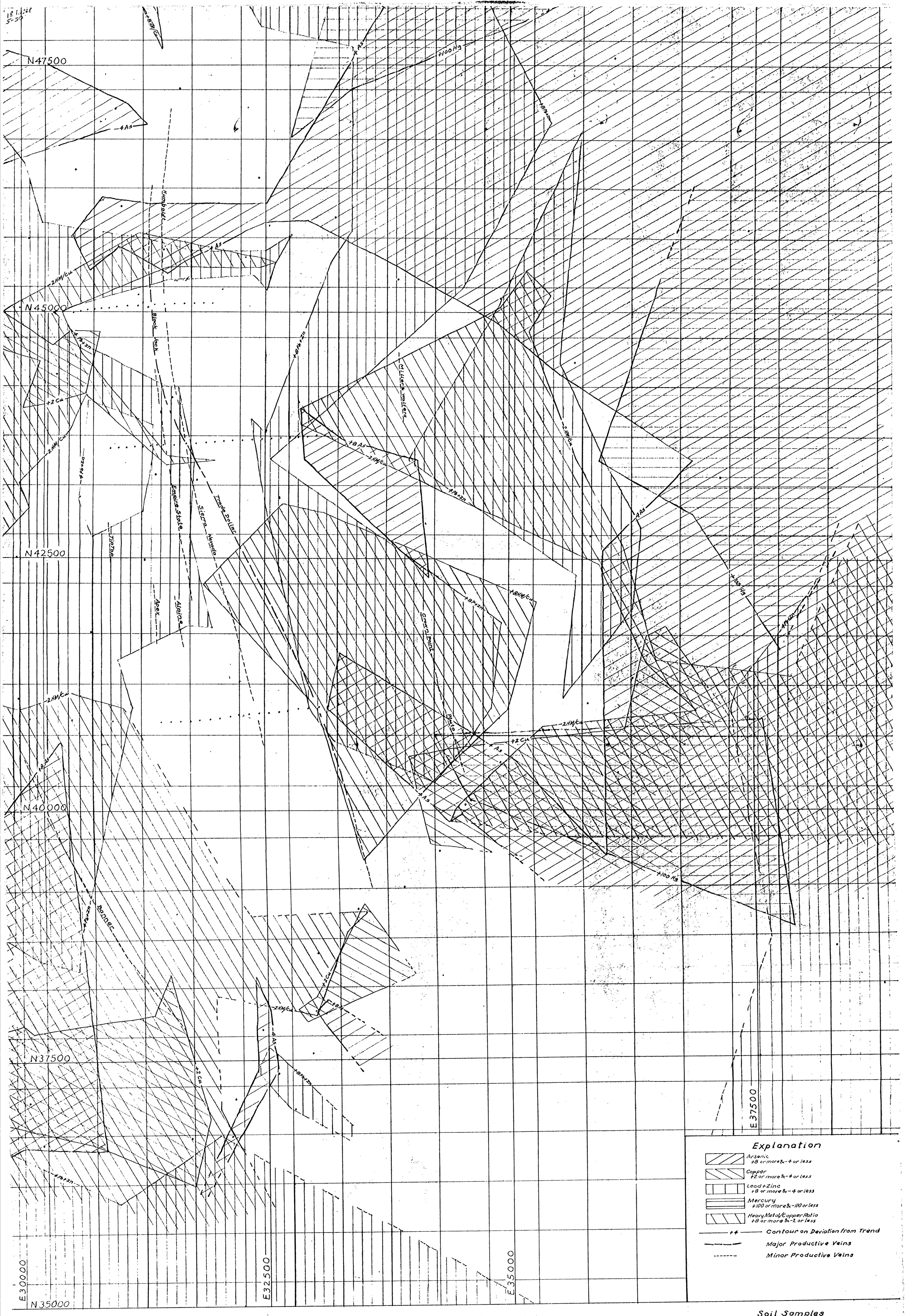
500 0 500 1000 1500 2000 Feet

SCALE: 1" = 500'

Soil Samples
Composite Anomaly Map

Deviations from the Delamar-Florida Mountain Plane Trend Surface

Plate 4



Base from USGS 1:24,000 Field Sheets, 1965
Additions by compass & tape and pace
Drawn July, 1967 M C Brown

FLORIDA MOUNTAIN AREA

OWYHEE COUNTY, IDAHO

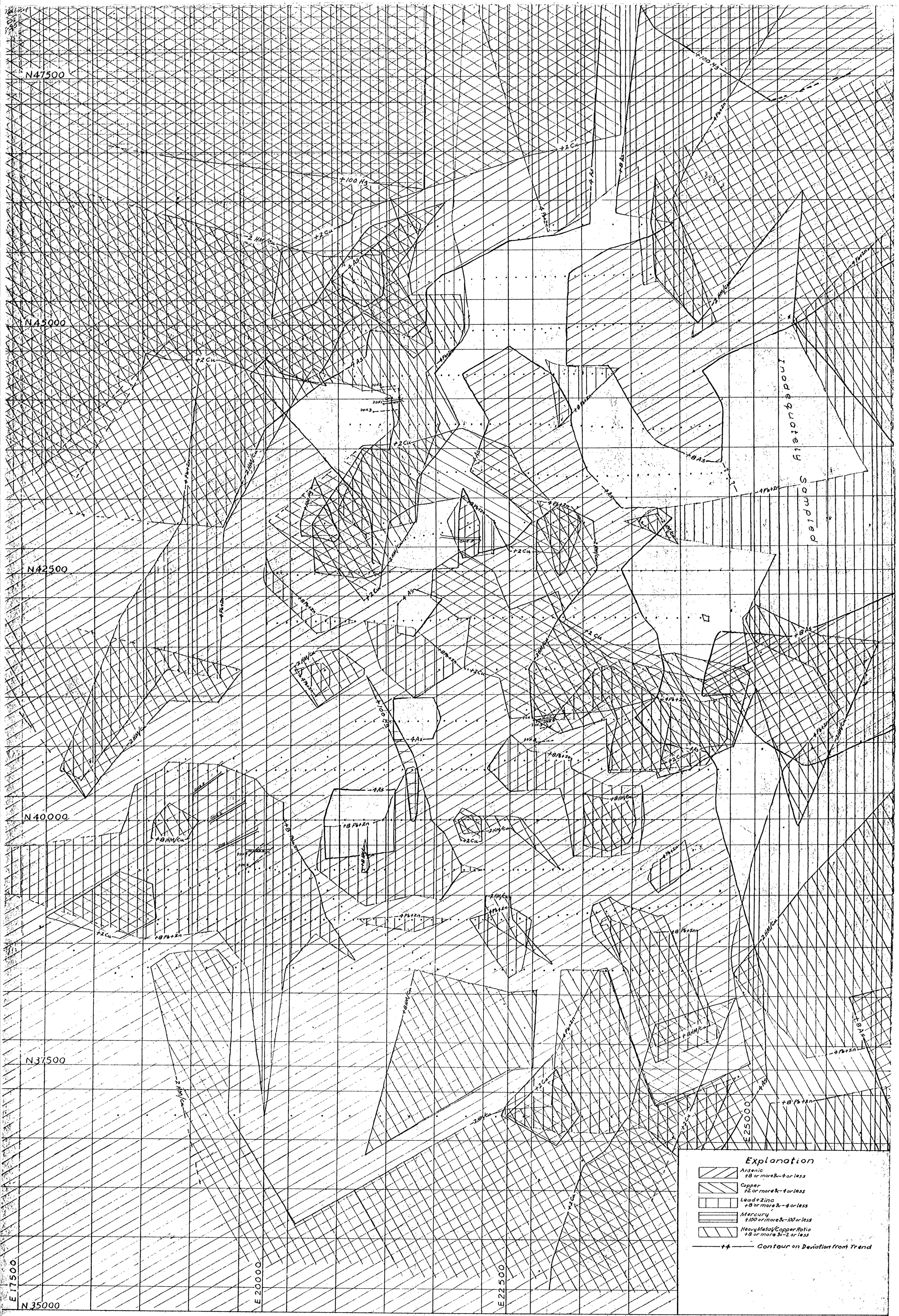
500 0 500 1000 1500 2000 Feet

SCALE: 1" = 500'

Soil Samples
Composite Anomaly Map

Deviations from the Delamar-Florida Mountain Plane Trend Surface

Plate 3



Base from USGS 1:24,000 Field Sheets, 1965
Additions by compass & tape and pace
Drawn July, 1967 M.C. Brown

COOK MOUNTAIN AREA

OWYHEE COUNTY, IDAHO

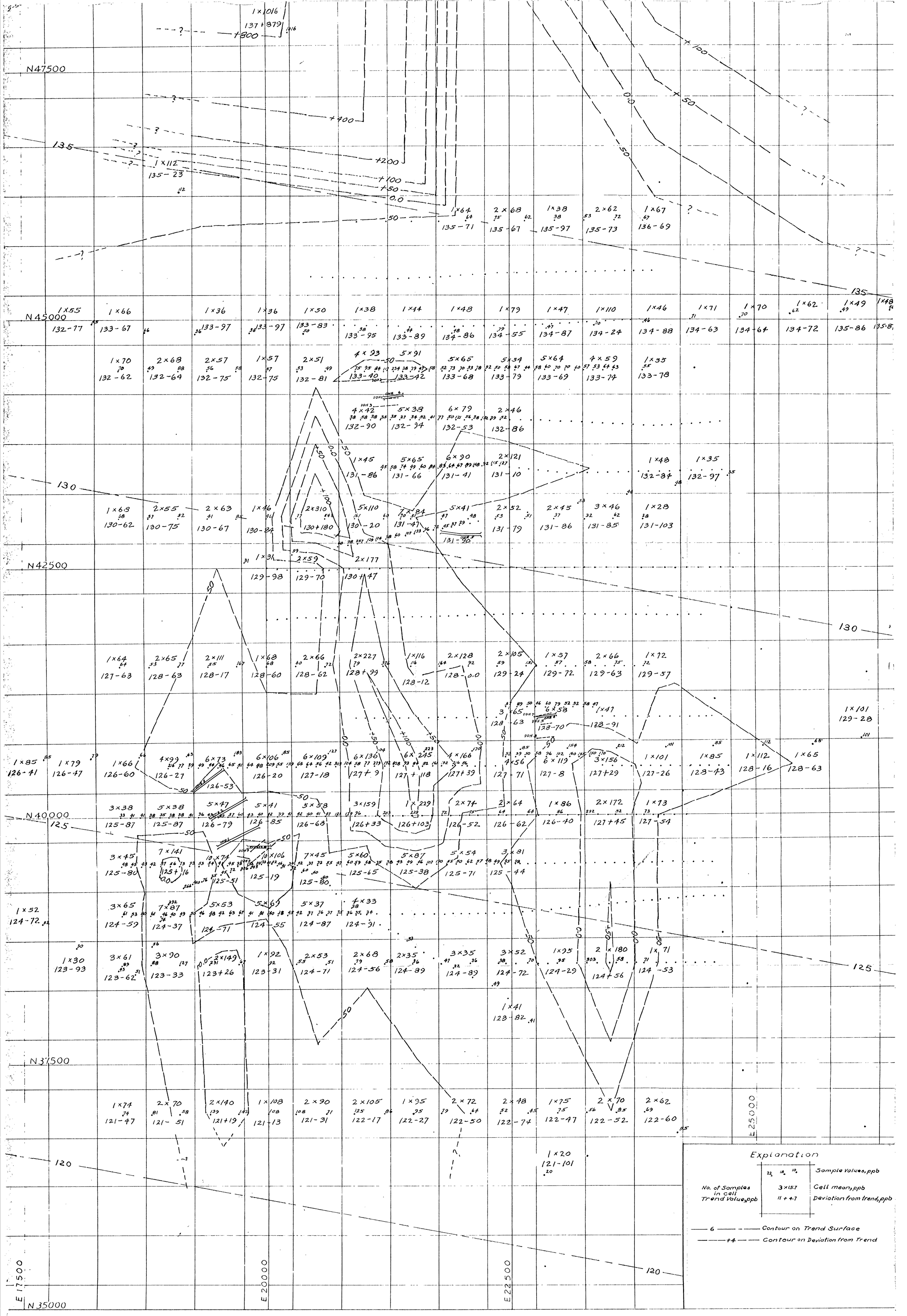
500 0 500 1000 1500 2000 Feet

SCALE: 1" = 500'

Soil Samples
Composite Anomaly Map

Deviations from the Delamar-Florida Mountain Plane Trend Surface

Plate 2



Base from USGS 1:24,000 Field Sheets, 1965
Additions by compass & tape and pace
Drawn July, 1967 M C Brown

COOK MOUNTAIN AREA

OWYHEE COUNTY, IDAHO

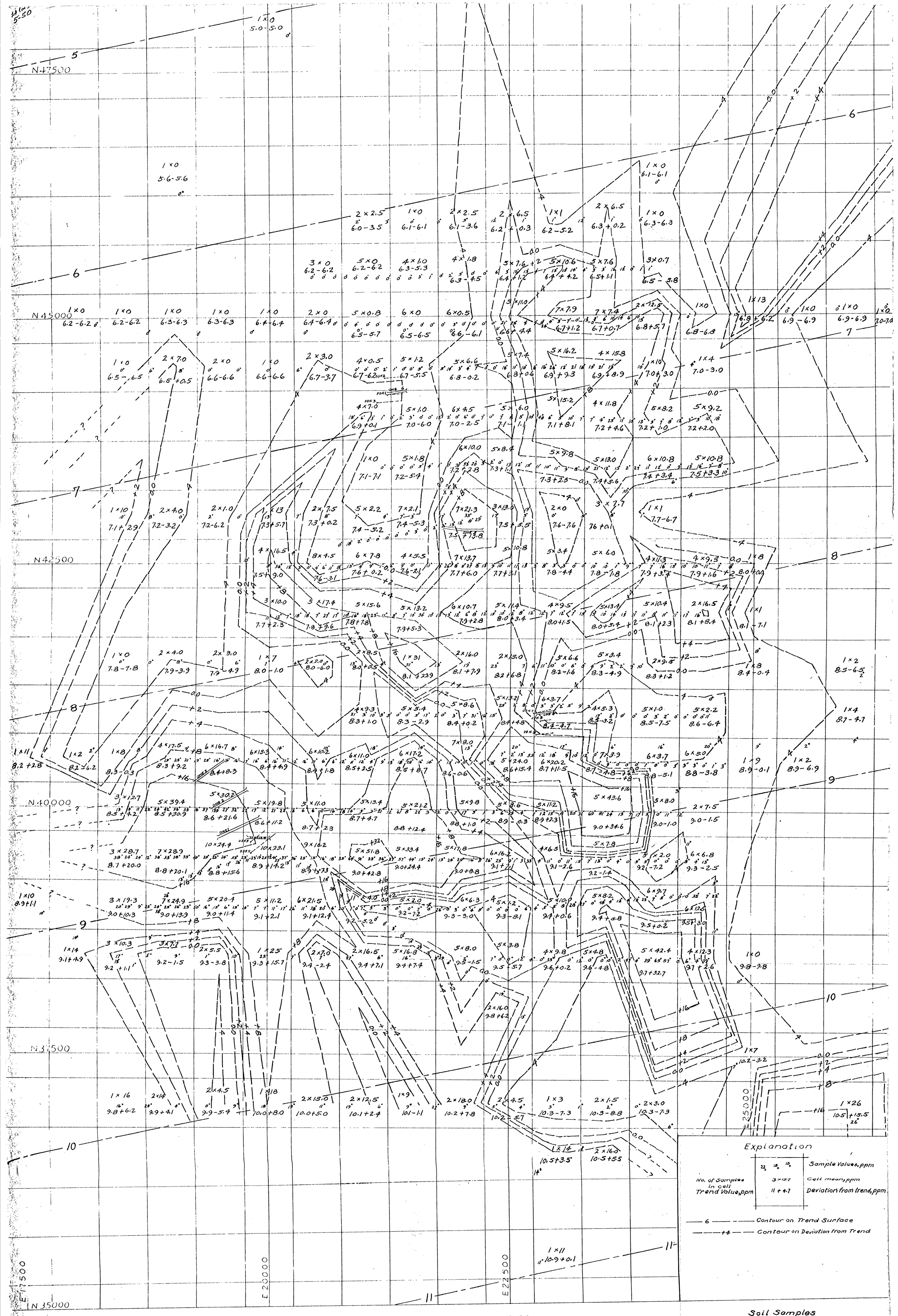
500 0 500 1000 1500 2000 Feet

SCALE: 1" = 500'

Soil Samples
Mercury

Deviations from the Delamar-Florida Mountain Plane Trend Surface

Plate 1M



Base from USGS 24,000 Field Sheets, 1965
Additions by compass & tape and pace
Drawn July, 1967 M C Brown

COOK MOUNTAIN AREA

OWYHEE COUNTY, IDAHO

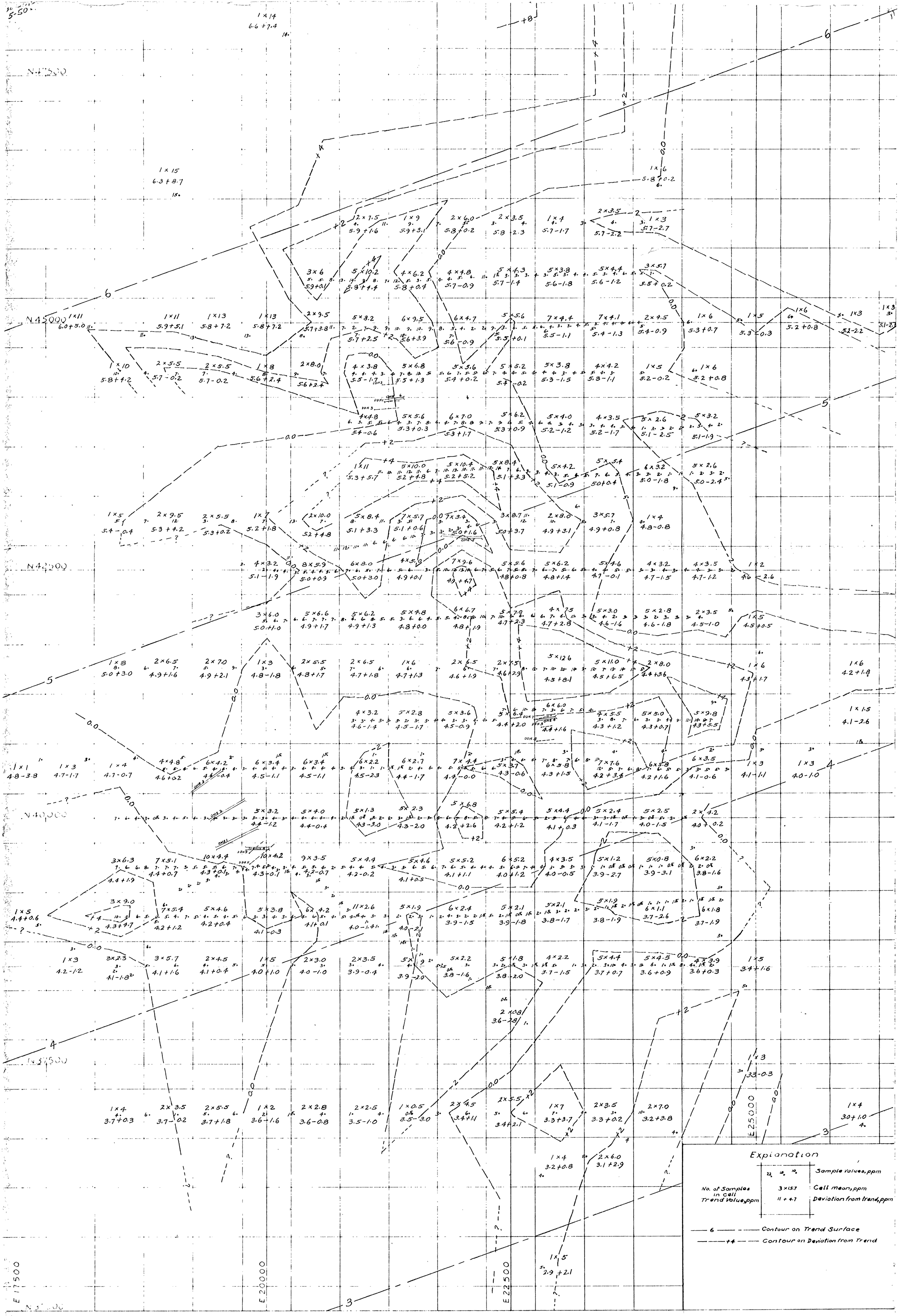
500 0 500 1000 1500 2000 Feet

SCALE: 1" = 500'

Soil Samples
Lead + Zinc

Deviations from the Delamar-Florida Mountain Plane Trend Surface

Plate 1LZ



Base from USGS 24,000 Field Sheets, 965
Additions by compass & tape and pace
Drawn July, 1967 M C Brown

COOK MOUNTAIN AREA

OWYHEE COUNTY, IDAHO

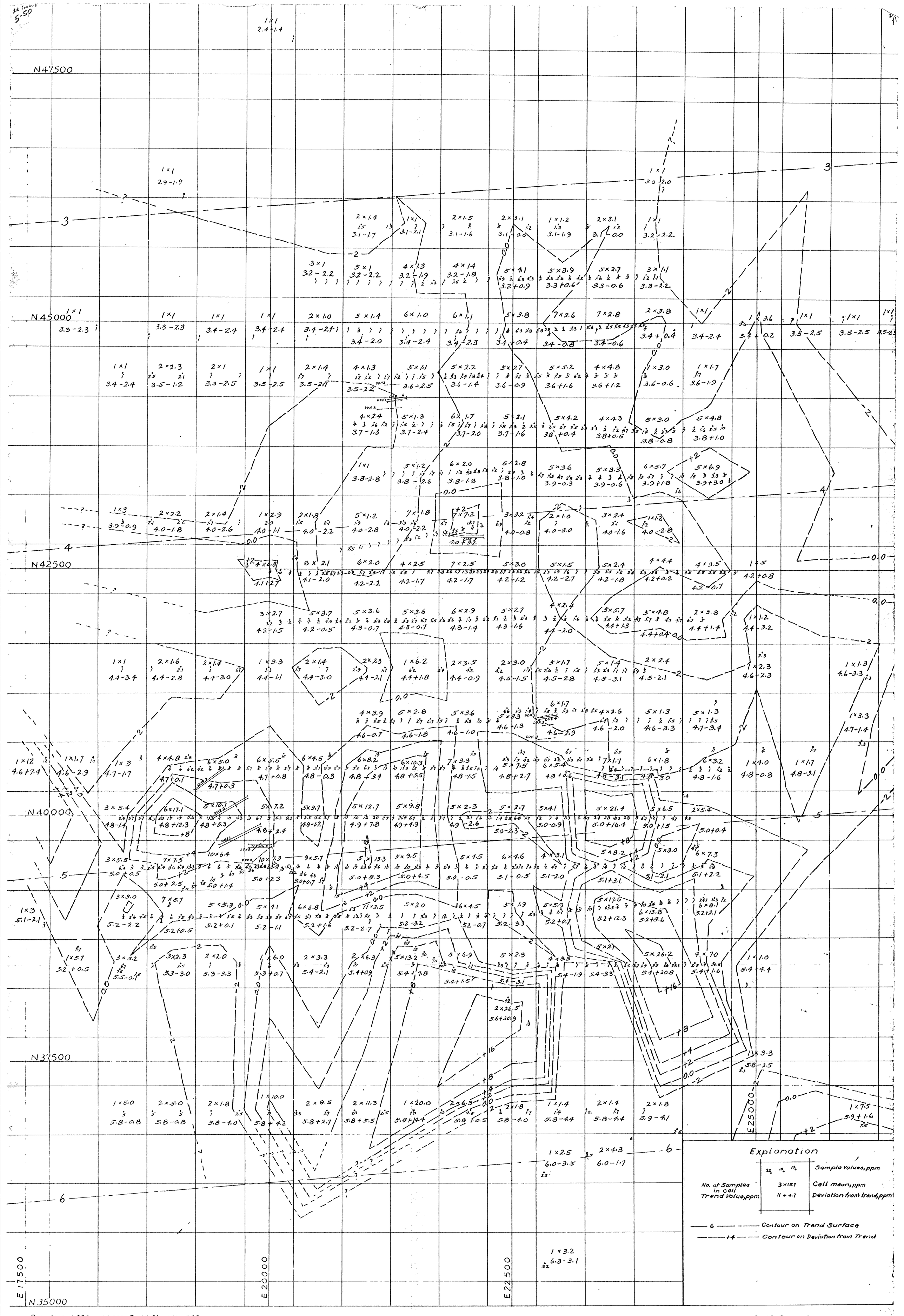
500 0 500 1000 1500 2000 Feet

SCALE: 1" = 500'

Soil Samples
Copper

Deviations from the Delamar-Florida Mountain Plane Trend Surface

Plate 1C



Base from USGS 1:24,000 Field Sheets, 1965
Additions by compass & tape and pace
Drawn July, 1967 M. C. Brown

COOK MOUNTAIN AREA

OWYHEE COUNTY, IDAHO

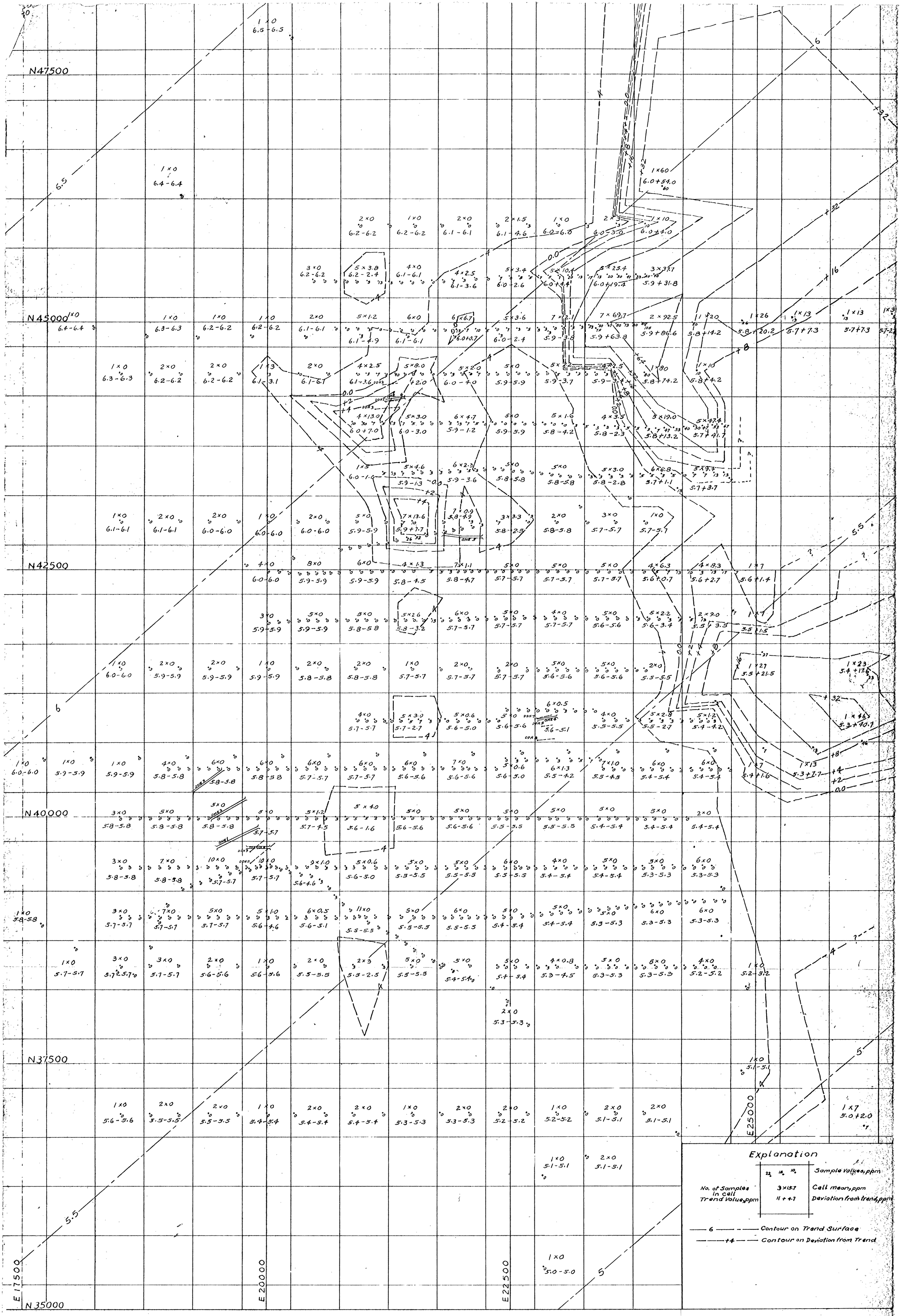
500 0 500 1000 1500 2000 Feet

SCALE: 1" = 500'

Soil Samples
HM/Cu Ratio

Deviations from the Delamar-Florida Mountain Plane Trend Surface

Plate 1HMC



Base from USGS 1:24,000 Field Sheets, 1965
Additions by compass & tape and pace
Drawn May, 1967 M.C. Brown

COOK MOUNTAIN AREA

OWYHEE COUNTY, IDAHO

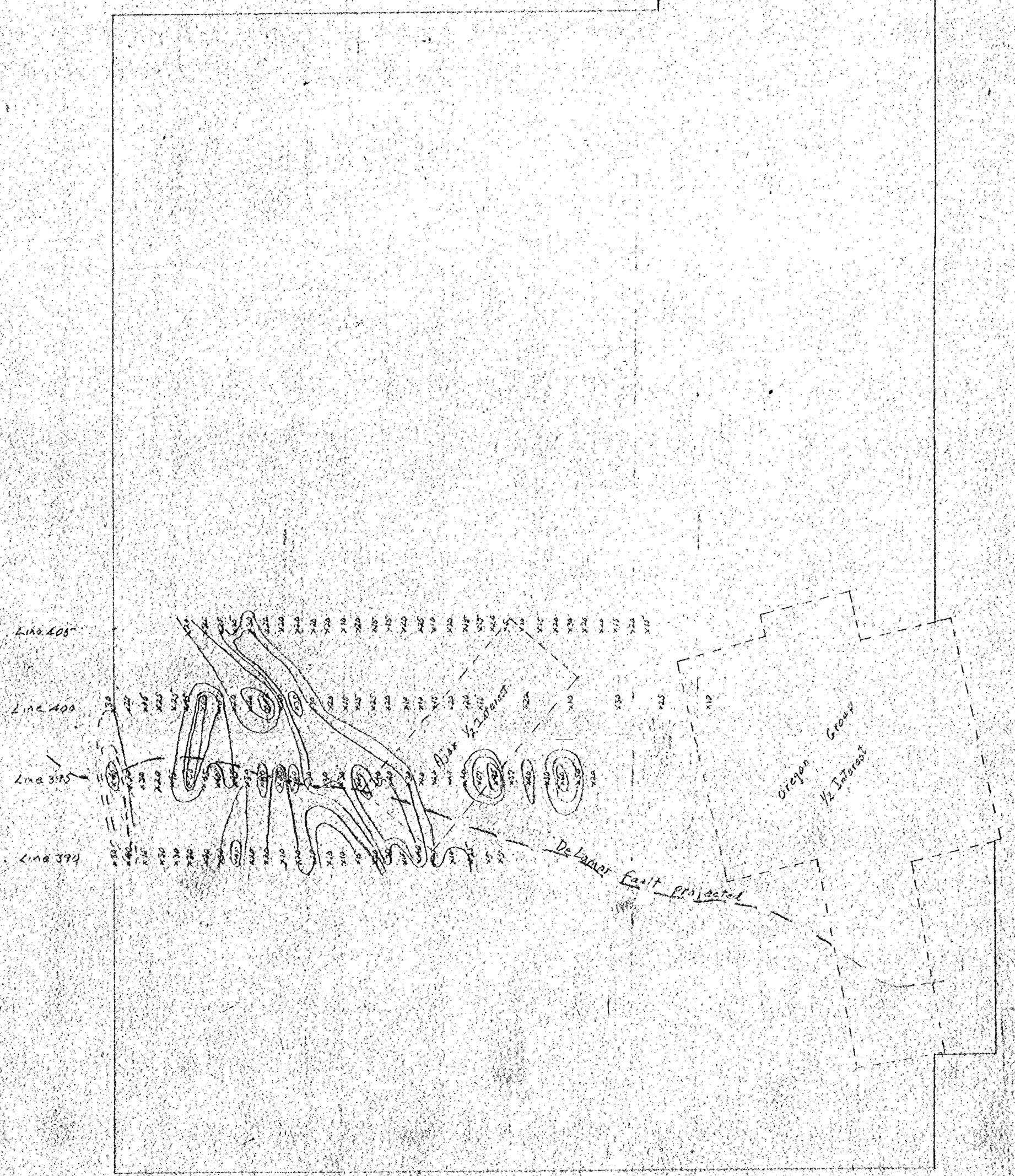
500 0 500 1000 1500 2000 Feet

SCALE: 1" = 500'

Soil Samples
Arsenic

Deviations from the Delamar-Florida Mountain Plane Trend Surface

Plate 1A



Plan of Cook Claims
Showing Partial outlines of ppa Heavy Metals
Sidney Mining Company
Owyhee County, Idaho

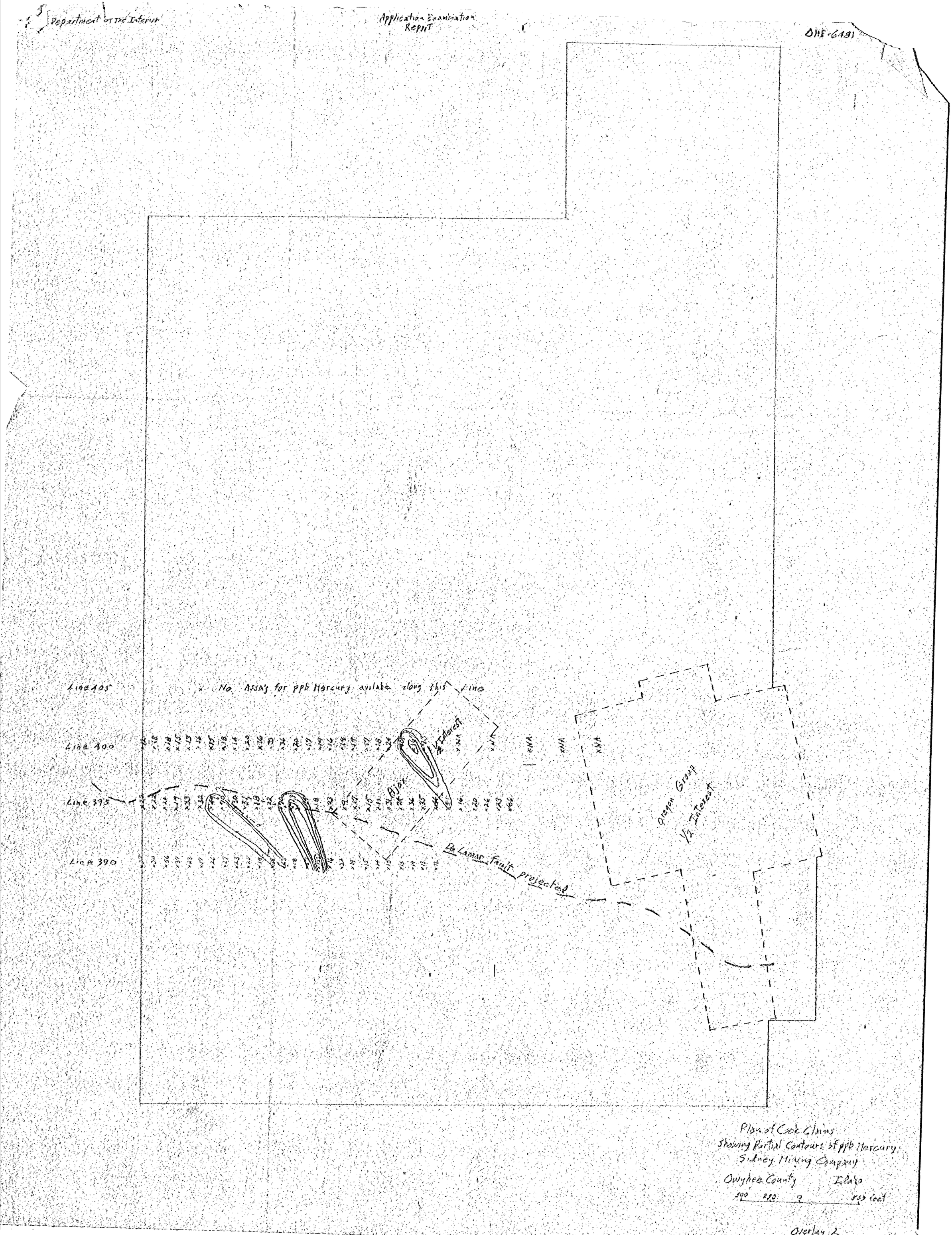
500 250 0 500 feet

Overlay 1

Department of the Interior

Application Examination Report

OMB-6A91



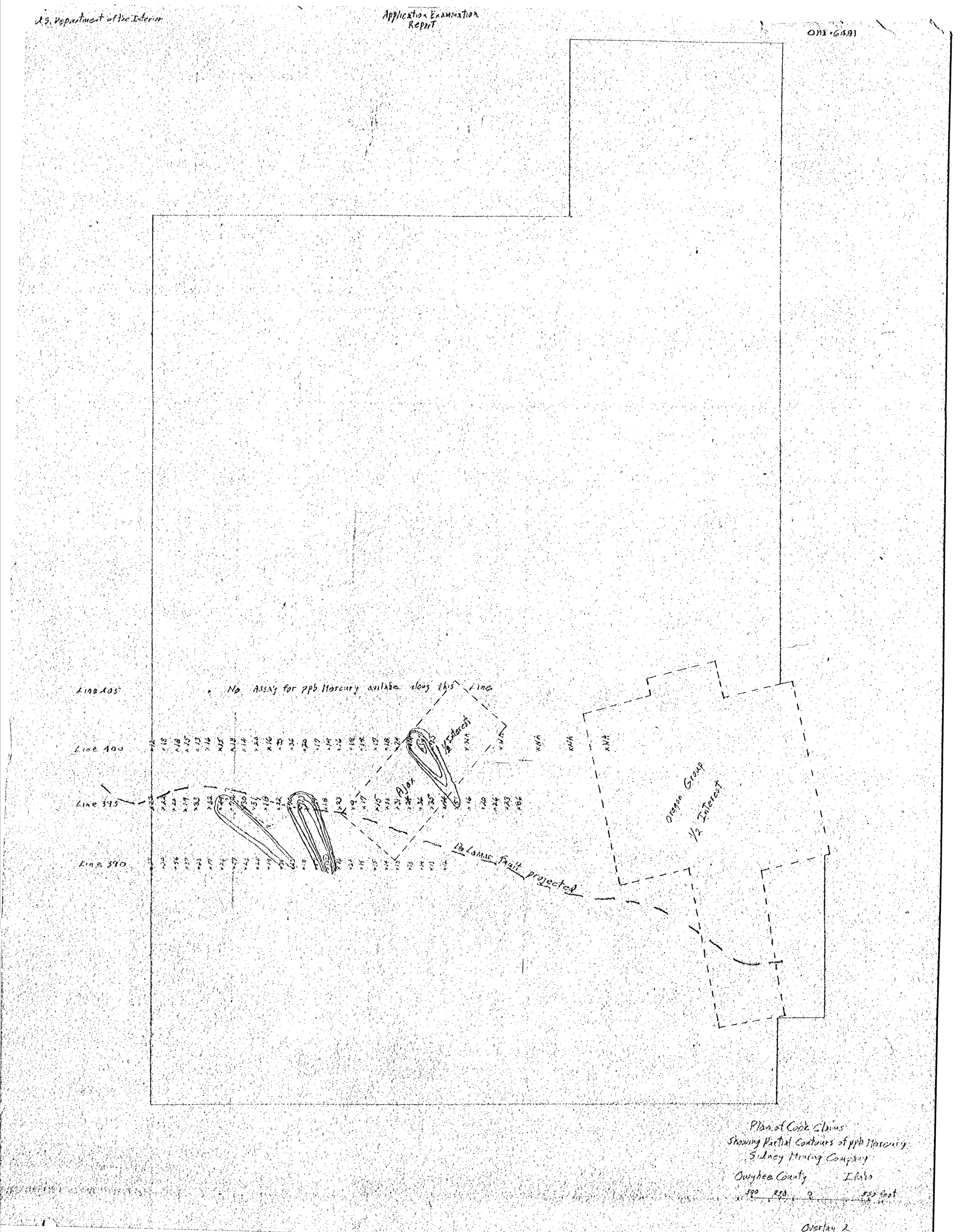
Plan of Cook Claims
Showing Partial Contours of ppb Mercury
Sidney Mining Company
Owyhee County Idaho
500 250 0 500 feet

Overlay 2

U.S. Department of the Interior

Application Examination Report

ONE-6481



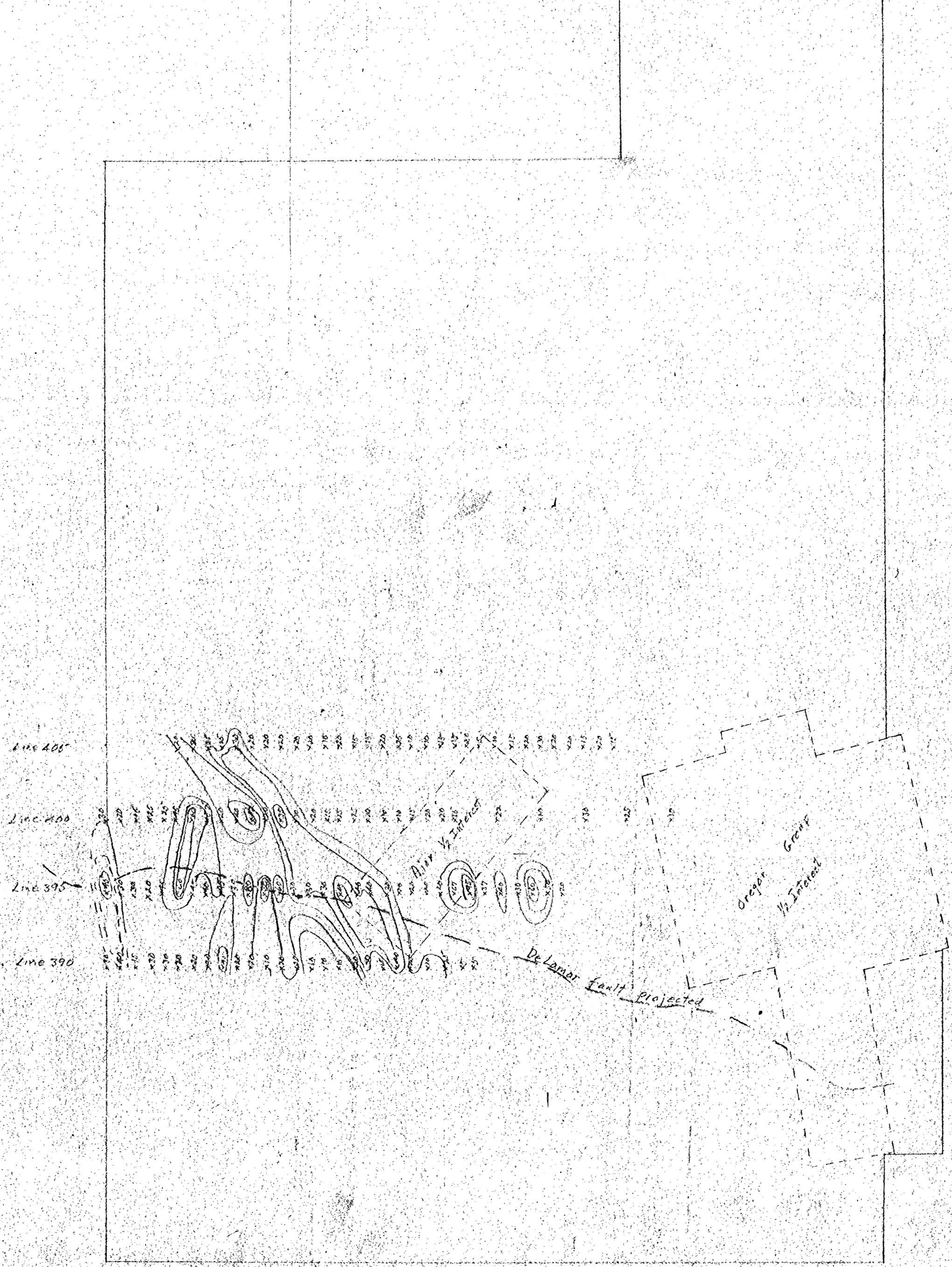
Plan of Cook Claims
Showing Partial Contours of ppb Mercury
Sidney Mining Company
Owyhee County Idaho
500 250 0 500 feet

Overlay 2

U.S. Department of the Interior

Application Examination Report

OME-6181



Plan of Cook Claims
Showing Partial contours of ppm Heavy Metals
Sidney Mining Company
Owyhee County, Idaho

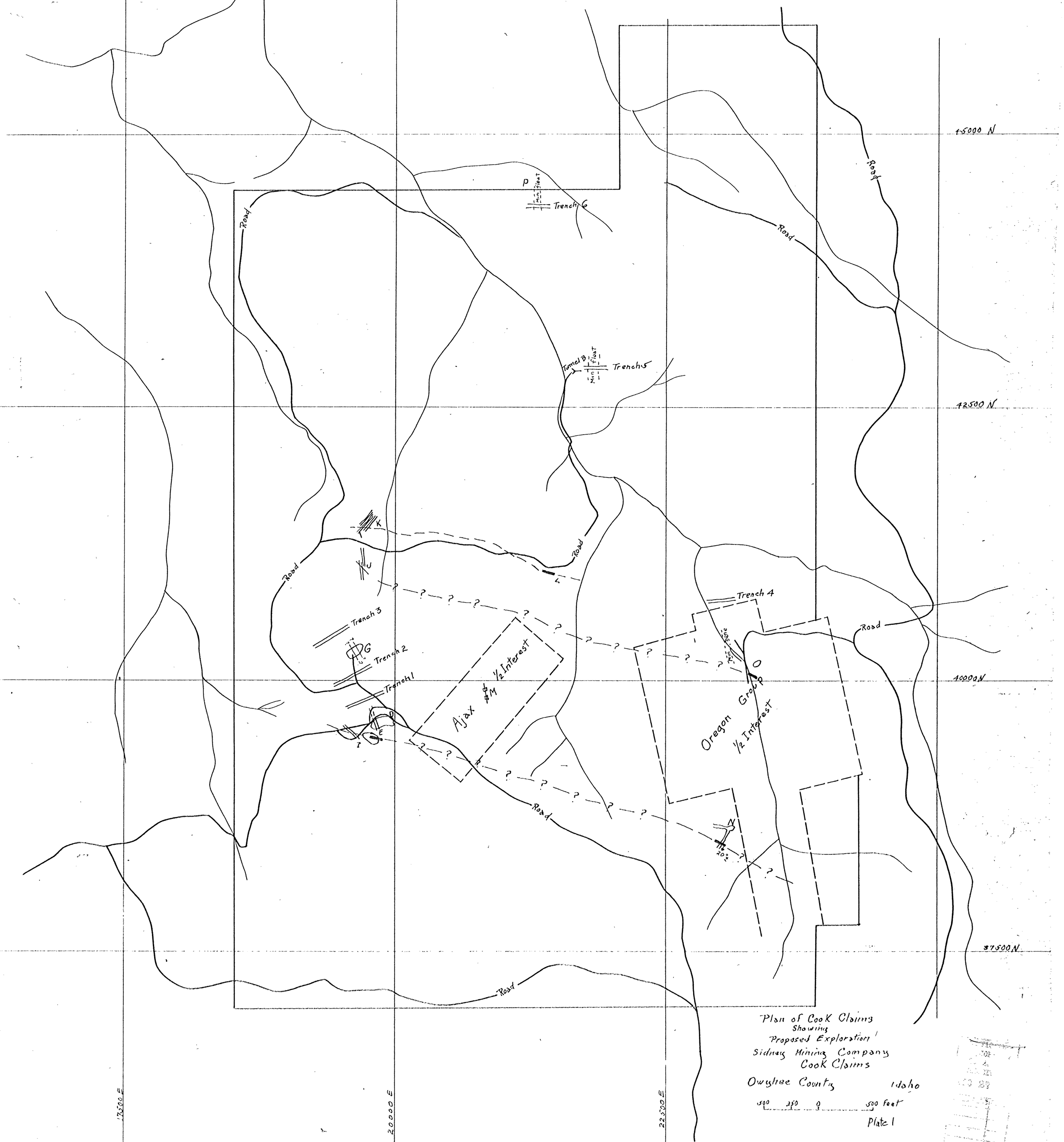
500 250 0 500 feet

Overlay 1

U.S. Department of the Interior

Application Examination Report

OME-6481

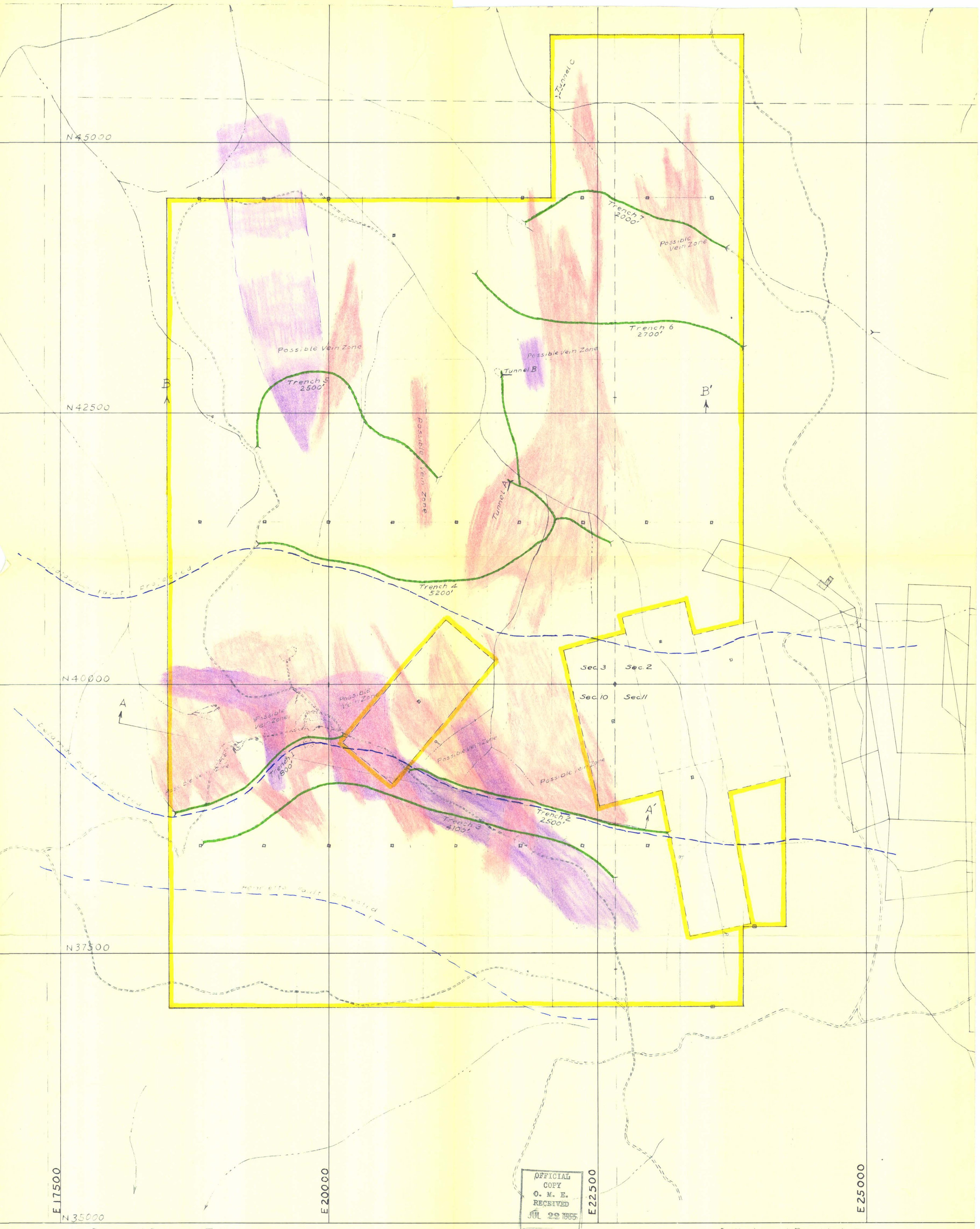


Plan of Cook Claims
Showing
Proposed Exploration
Sidney Mining Company
Cook Claims

Owyhee County Idaho

500 250 0 500 feet

Plate I



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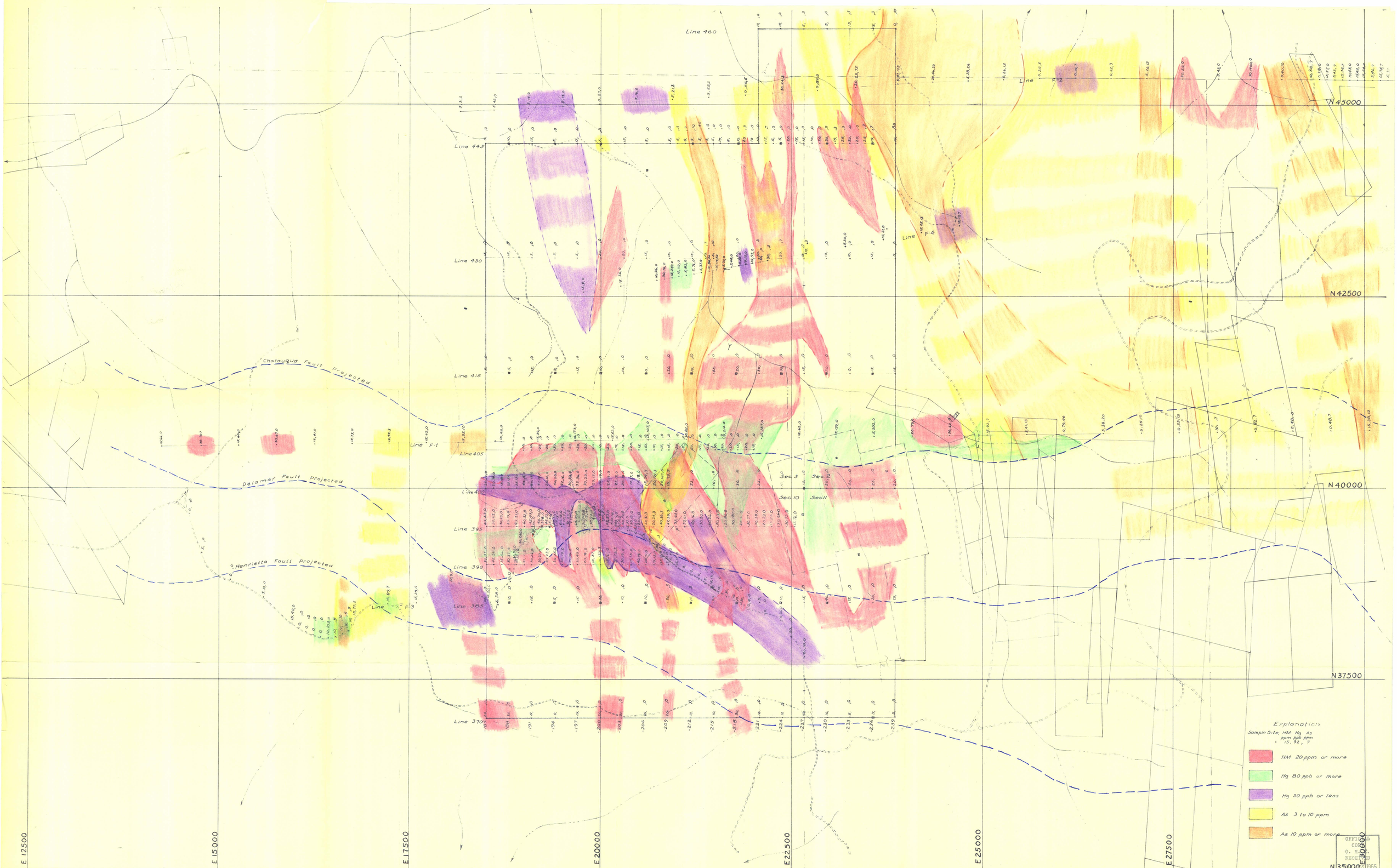
JUL 22 1965
CONSULTANTS COPY



Base enlarged from B.L.M. plats T. 4 & 5 S., R. 4 W. B.M.
Detail from compass, tape & pace traverses by M.C. Brown, 1964
Drawn July 23, 1964 M.C.B.
Revised 9-10-64, 11-12-64, 1-11-65, 1-16-65

COOK GROUP

OWYHEE COUNTY, IDAHO

500 0 500 1000 1500 2000 Feet

SCALE: 1" = 500'

Soil Sample Data

Heavy Metals by dithizone from citrate extraction, Min 3 ppm
Mercury by Cordero Lab, Minimum 1 ppb
Arsenic by Almond's method, Minimum 3 ppm

Plate 2

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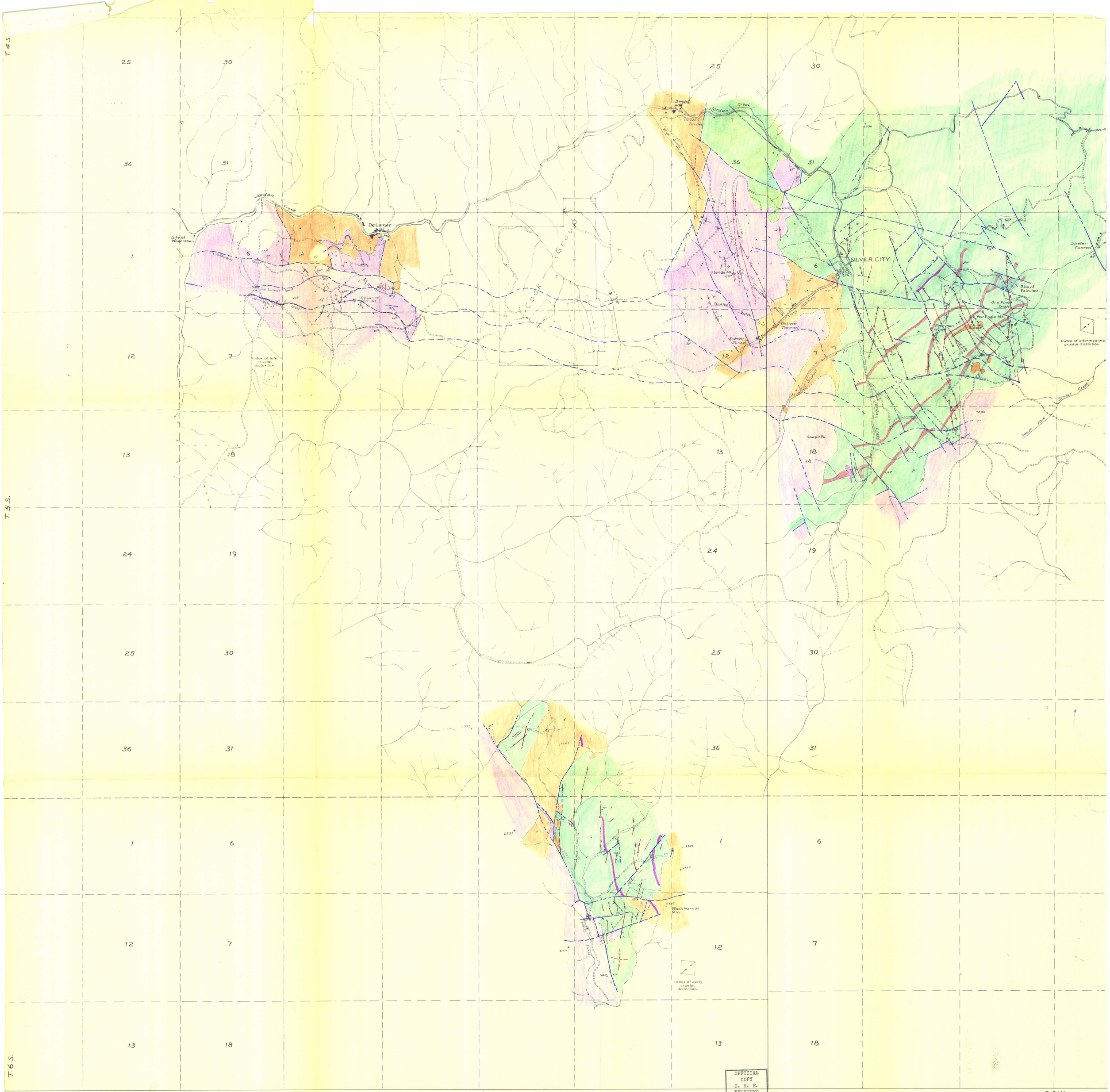
INITIALS CODE



Silver City, DeLamar & Flint districts
pantographed from Ida. Bur. Mines Bull. 11
Probable accuracy: ± 200'
M.C. Brown May, 1964
Intervening drainage from new BLM plats June, 1964 MCB
Revised 11-26-64

SILVER CITY AREA, OWYHEE COUNTY, IDAHO

5000 0 1 2
Feet Miles
Scale = 1 : 24000

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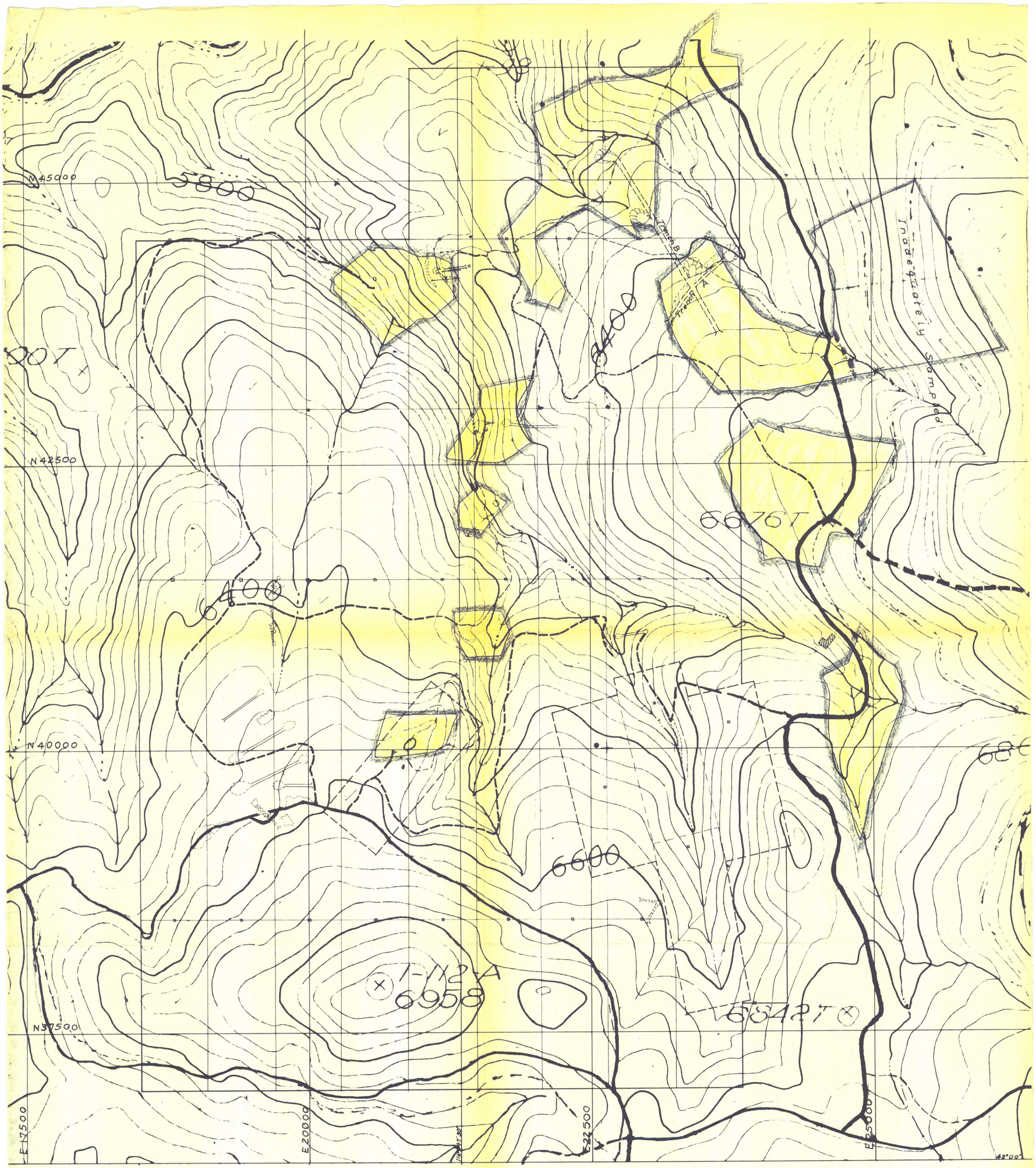
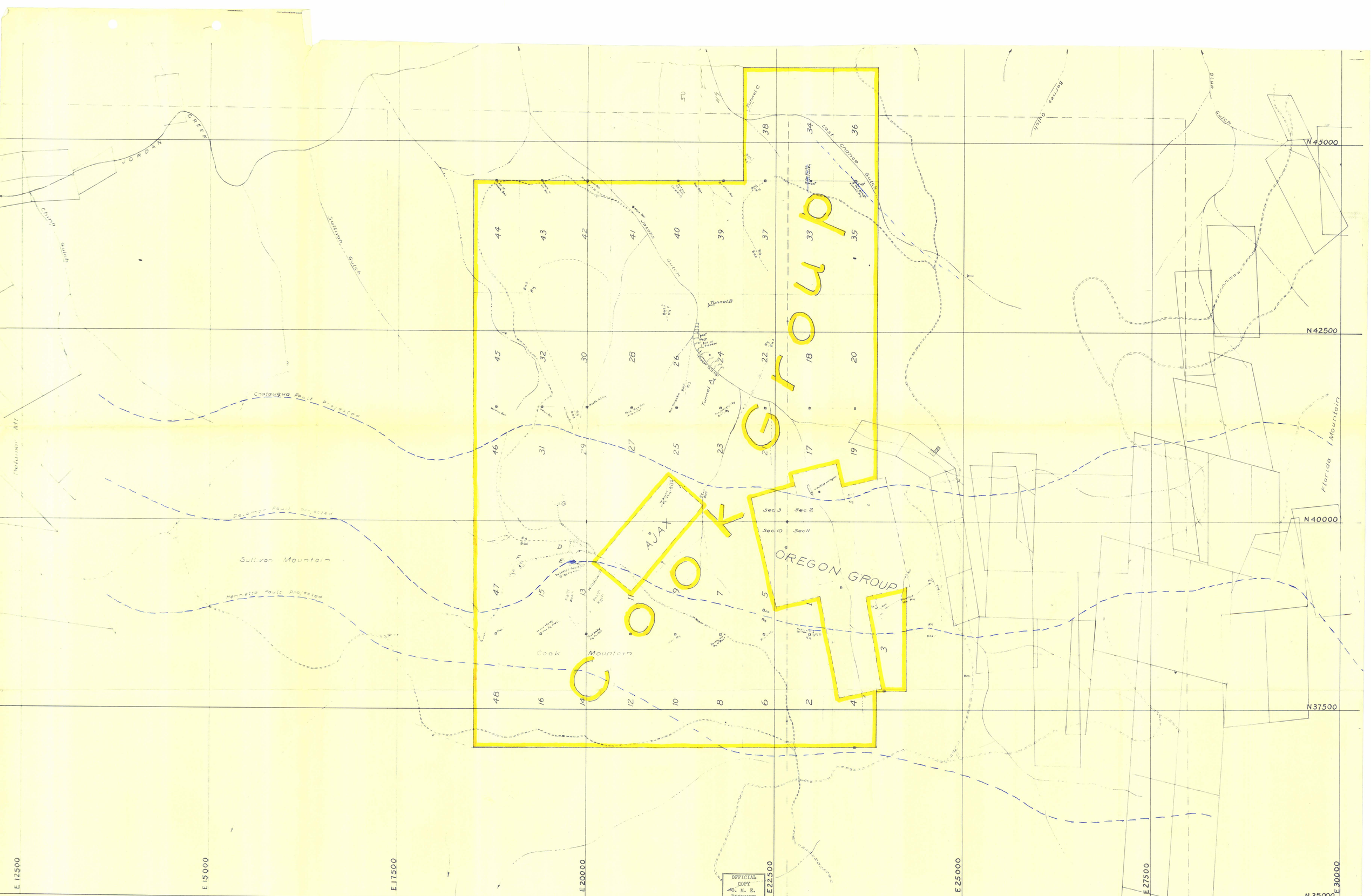
INITIALS CODE

Rhyolite flows
Basalt flows
Granodiorite
Rhyolite dikes
Diorite & dacite porphyry dikes
Veins
Faults

Plate 1


N45000
N42500
N40000
N37500
E17500
E20000
E22500
E25000
5800
5400
6400
6600
6076T
1-112-A
6958
6542T
Trench B
Trench A
Inadequately Sampled
Base photoenlargement of USGS 1:24,000 Field Sheets, 1965
Additions by compass & tape and pace from transit-stadia control
Drawn Aug, 1966
Revised Feb, 67; May 67
M. C. Brown
COOK GROUP
OWYHEE COUNTY, IDAHO
500 0 500 1000 1500 2000 Feet
SCALE: 1" = 500'
Soil Samples
Non-Anomalous Areas
Traced from composite, Plate 2
Plate 5



Base enlarged from B.L.M. plats T.4 & 5 S., R. 4 W. B.M.
Detail from compass, tape & pace traverses by M.C. Brown, 1964
Drawn July 28, 1964 MCB
Revised 9-10-64, 11-12-64, 11-13-64 2-16-65

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JUL 22 1965
INITIALS | CODE

COOK GROUP
OWYHEE COUNTY, IDAHO

500 0 500 1000 1500 2000 Feet
SCALE: 1" = 500'

Geologic Notes

Plate 7