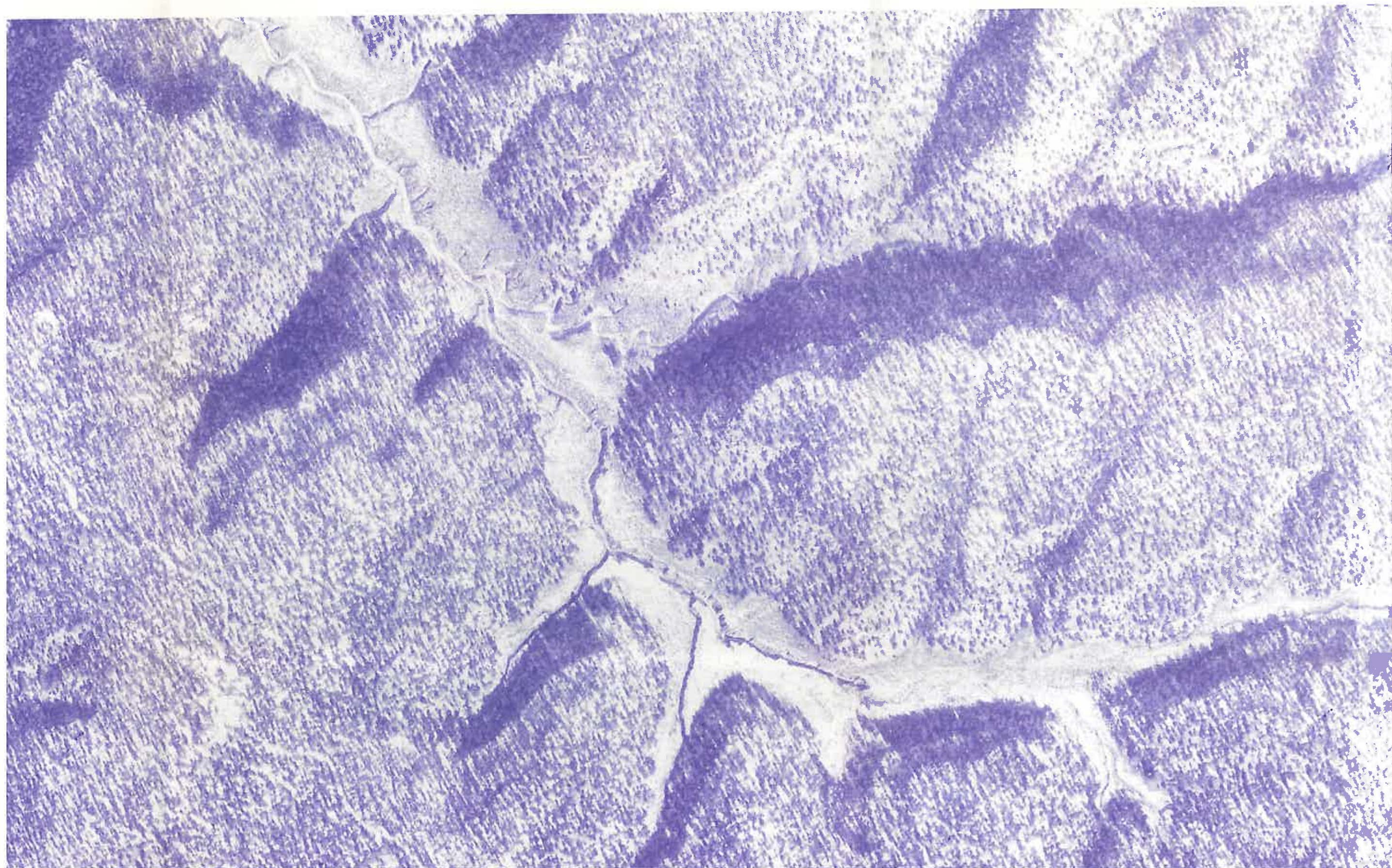




PEABODY COAL COMPANY
BLACK MESA – KAYENTA MINE
DRAWING NO. 85305A

LEGEND

Symbol	Name
1A	Dulce very channery fine sandy loam, 1 to 4 percent slopes
1, 1B	Dulce very channery fine sandy loam, 4 to 8 percent slopes
1C	Dulce very channery fine sandy loam, 8 to 15 percent slopes
1D	Dulce very channery fine sandy loam, 15 to 30 percent slopes
2B	Bond very fine sandy loam, 1 to 8 percent slopes
3A	Zyme – Dulce complex, 2 to 8 percent slopes
3BC	Zyme – Dulce complex, 2 to 15 percent slopes
3C	Zyme – Dulce complex, 6 to 15 percent slopes
3D	Zyme – Dulce complex, 15 to 30 percent slopes
3DE	Zyme – Dulce complex, 15 to 50 percent slopes
3E	Zyme – Dulce complex, 30 to 50 percent slopes
3F	Ustic Torriorthents – Rock outcrop complex, 50 to 80 percent slopes
4A	Zyme very channery loam, 1 to 4 percent slopes
4B	Zyme very channery loam, 4 to 8 percent slopes
4C	Zyme very channery loam, 8 to 15 percent slopes
4D	Zyme very channery loam, 15 to 30 percent slopes
5	Pulnit very fine sandy loam, 2 to 8 percent slopes



Symbol

1A

1, 1B

1C

1D

2B

3A

3BC

3C

3D

3DE

3E

3F

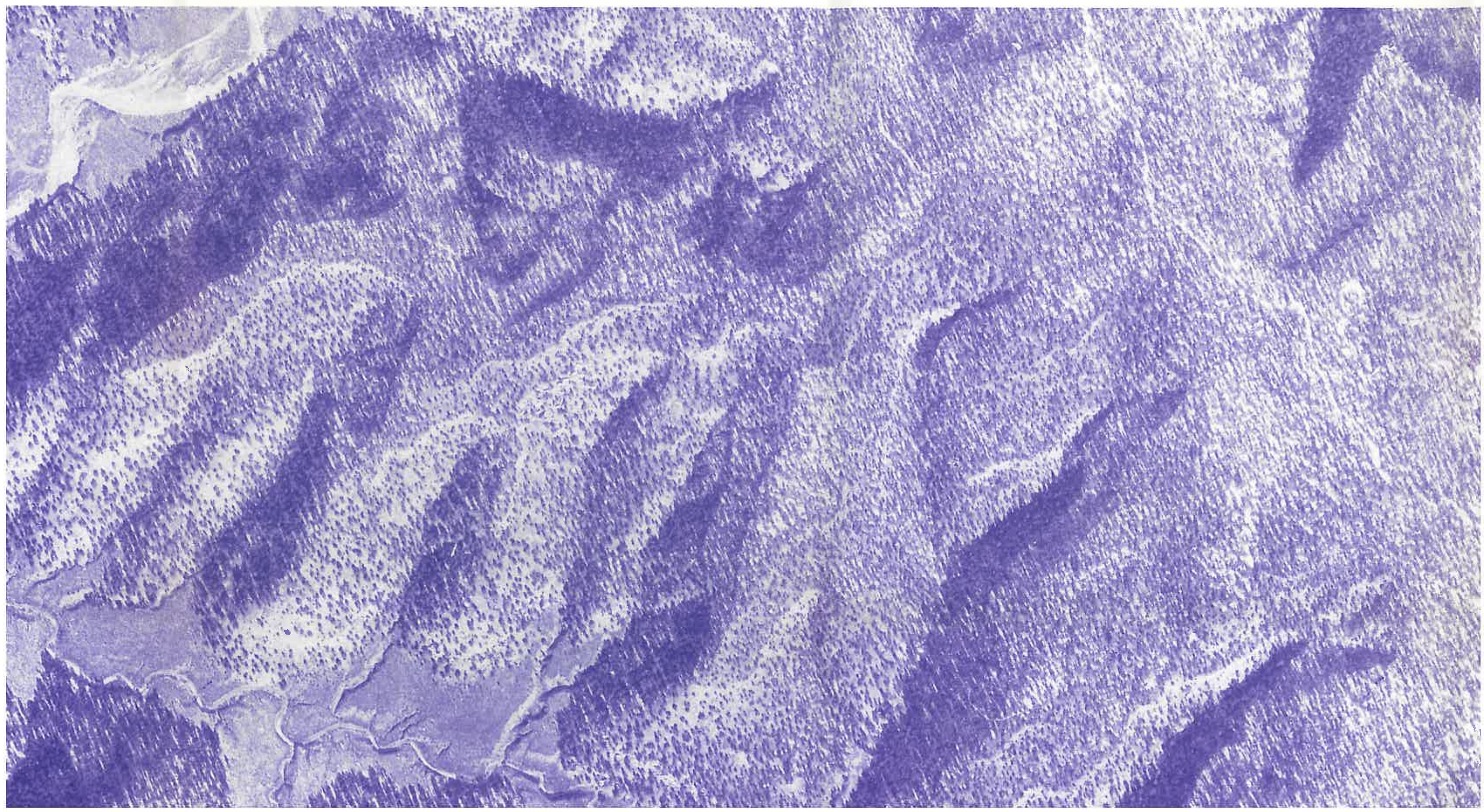
4A

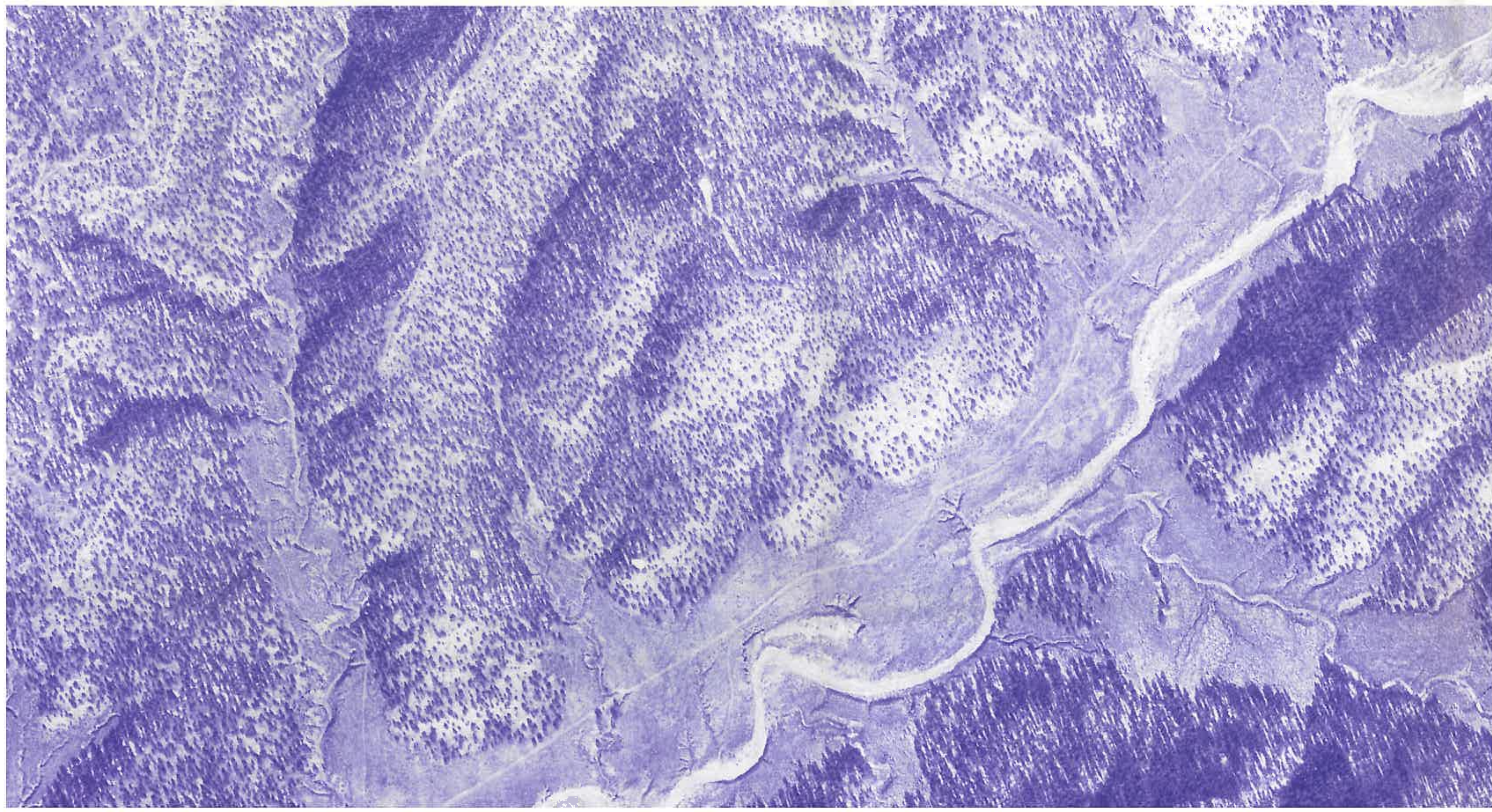
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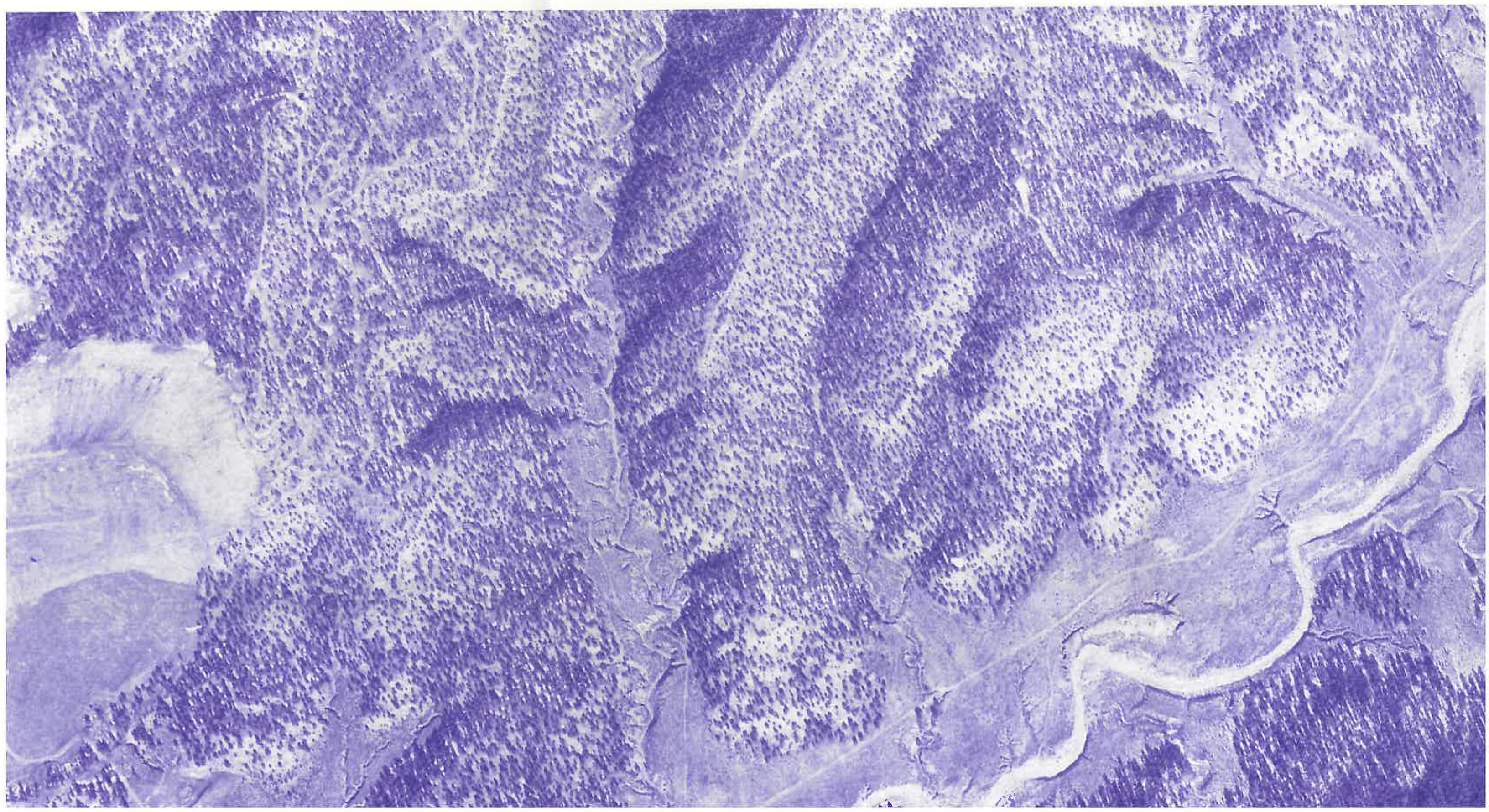
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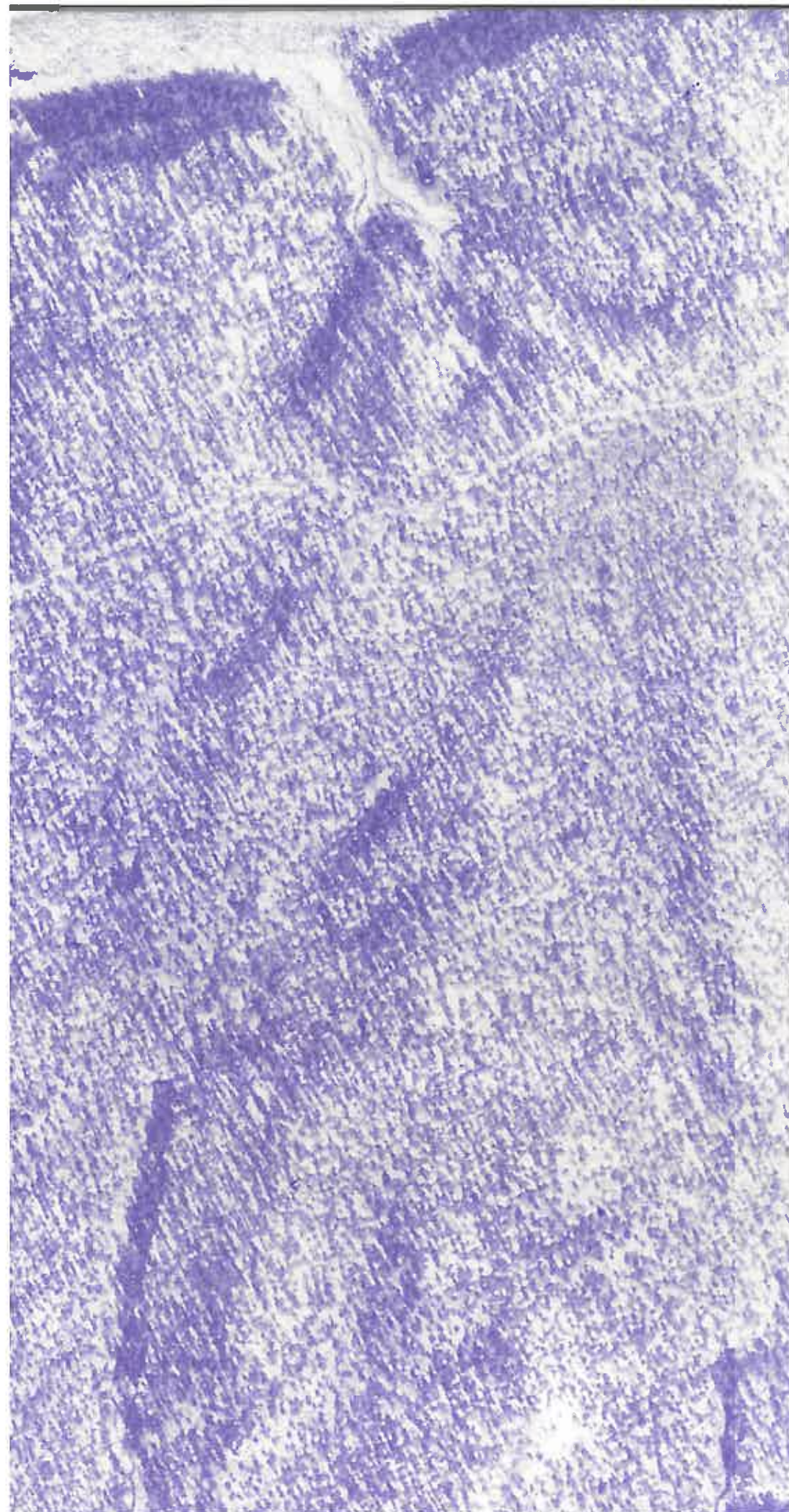
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5

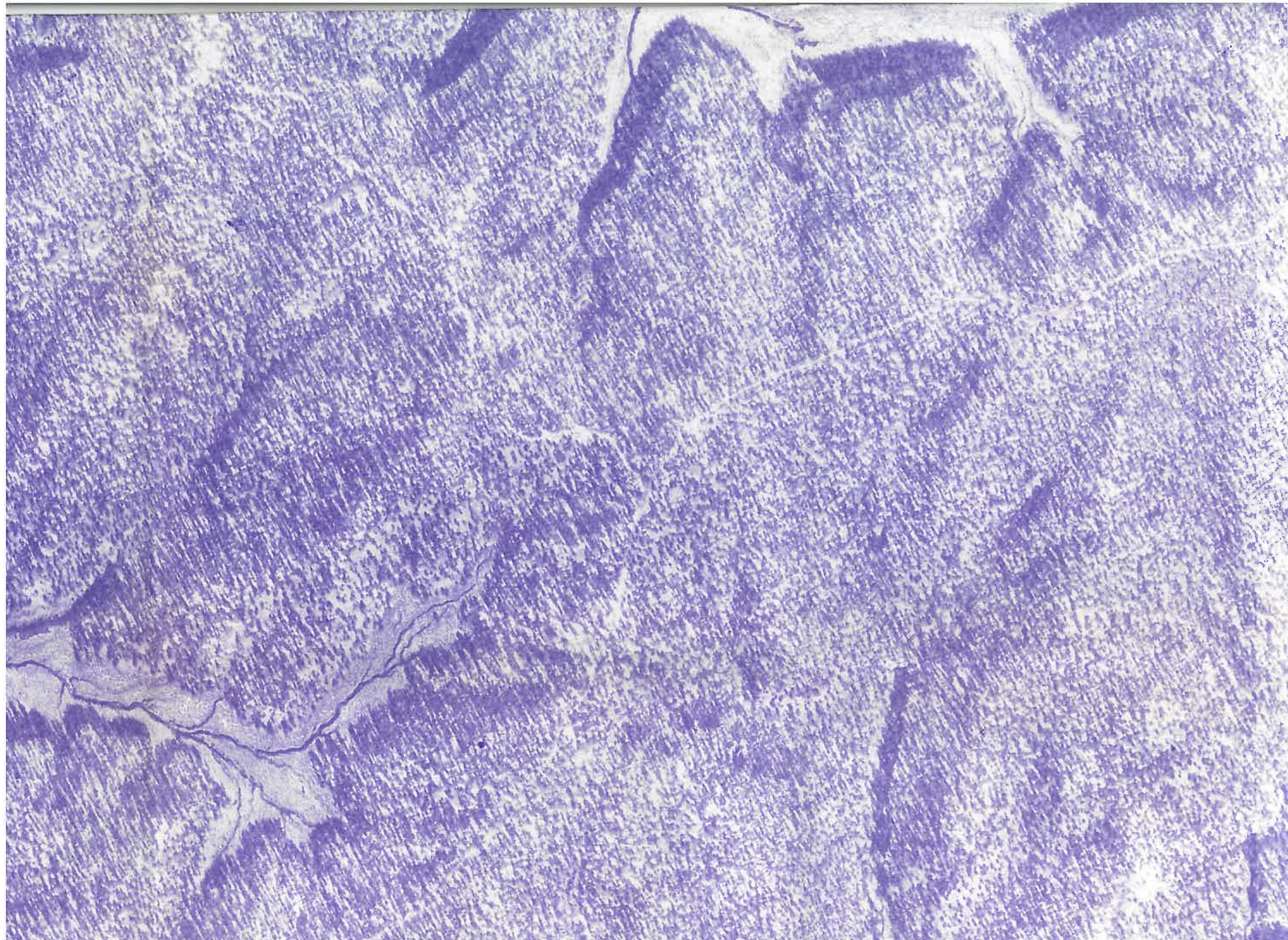








3F	Ustic Torriorthents – Rock outcrop complex, 50 to 80 percent slopes
4A	Zyme very channery loam, 1 to 4 percent slopes
4B	Zyme very channery loam, 4 to 8 percent slopes
4C	Zyme very channery loam, 8 to 15 percent slopes
4D	Zyme very channery loam, 15 to 30 percent slopes
5	Pulpit very fine sandy loam, 2 to 8 percent slopes
6	Sharps very fine sandy loam, 2 to 8 percent slopes
6A	Sharps very fine sandy loam, 1 to 4 percent slopes
6B	Sharps very fine sandy loam, 4 to 8 percent slopes
6C	Sharps very fine sandy loam, 8 to 15 percent slopes
7B	Travessilla – Zyme – Dulce complex, 2 to 6 percent slopes
7C	Zyme – Travessilla – Rock outcrop complex, 6 to 15 percent slopes
7D	Zyme – Travessilla – Rock outcrop complex, 15 to 30 percent slopes
7E	Zyme – Travessilla – Rock outcrop complex, 30 to 50 percent slopes
10	Cahona very fine sandy loam, bedrock substratum, 2 to 8 percent slopes
10A	Cahona very fine sandy loam, bedrock substratum, 1 to 4 percent slopes
10B	Cahona very fine sandy loam, bedrock substratum, 4 to 8 percent slopes
10C	Cahona very fine sandy loam, bedrock substratum, 8 to 15 percent slopes
11	Cahona very fine sandy loam, 1 to 6 percent slopes
11A	Cahona very fine sandy loam, 1 to 4 percent slopes
11B	Cahona very fine sandy loam, 4 to 8 percent slopes
11C	Cahona very fine sandy loam, 8 to 15 percent slopes
G11B	Cahona very fine sandy loam, gravelly substratum, 2 to 8 percent slopes
X11	Cahona – Cahona, bedrock substratum, very fine sandy loams, 2 to 10 percent slopes
X11A	Cahona – Cahona, bedrock substratum, very fine sandy loams, 1 to 4 percent slopes
X11B	Cahona – Cahona, bedrock substratum, very fine sandy loams, 4 to 8 percent slopes
X11C	Cahona – Cahona, bedrock substratum, very fine sandy loams, 8 to 15 percent slopes
12	Begay loam, 2 to 10 percent slopes
12A	Begay loam, 1 to 4 percent slopes
12B	Begay loam, 4 to 8 percent slopes
12C	Begay loam, 8 to 15 percent slopes



3F

4A

4B

4C

4D

5

6

6A

6B

6C

7B

7C

7D

7E

10

10A

10B

10C

11

11A

11B

11C

G11B

X11

X11A

X11B

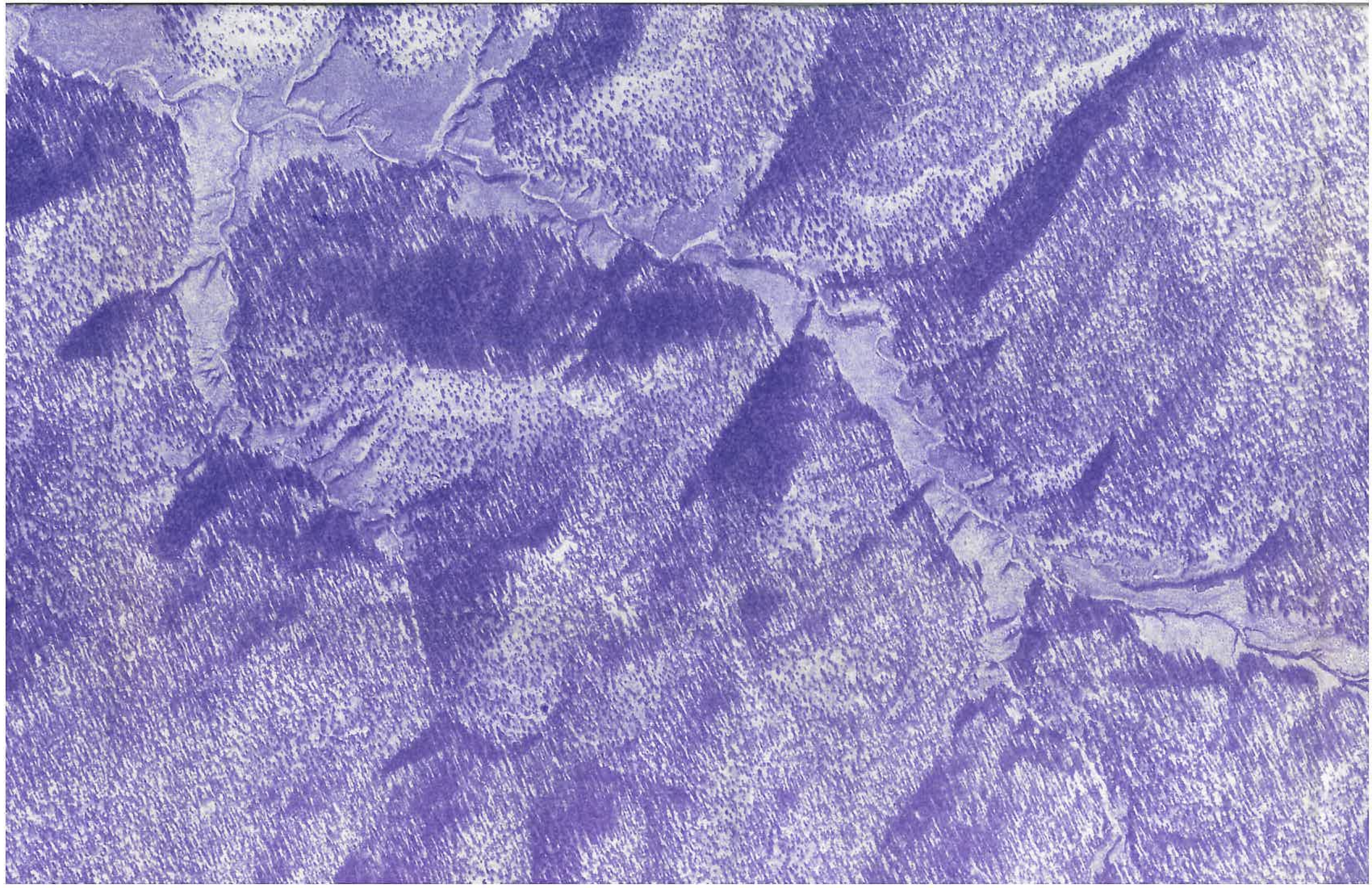
X11C

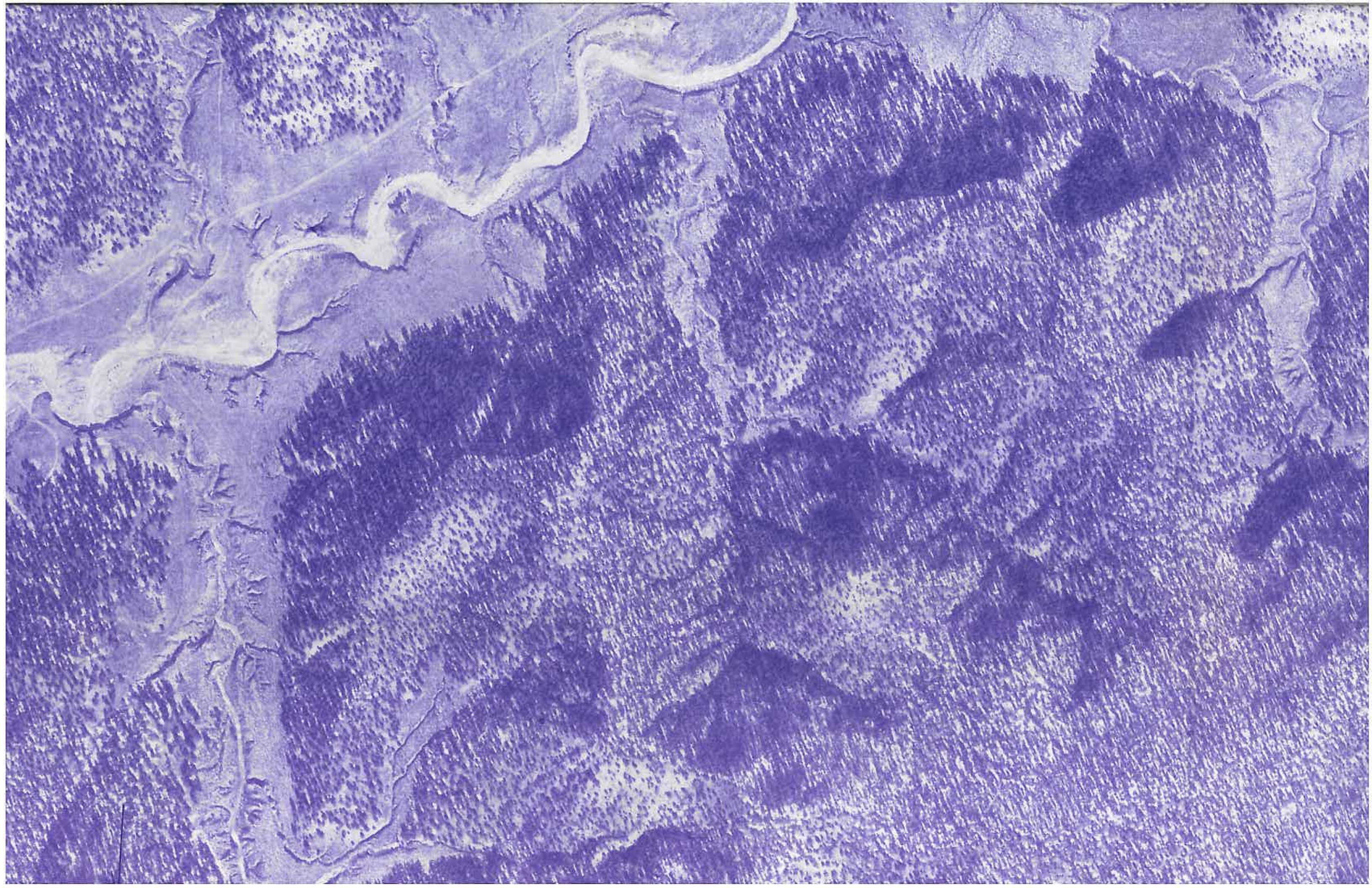
12

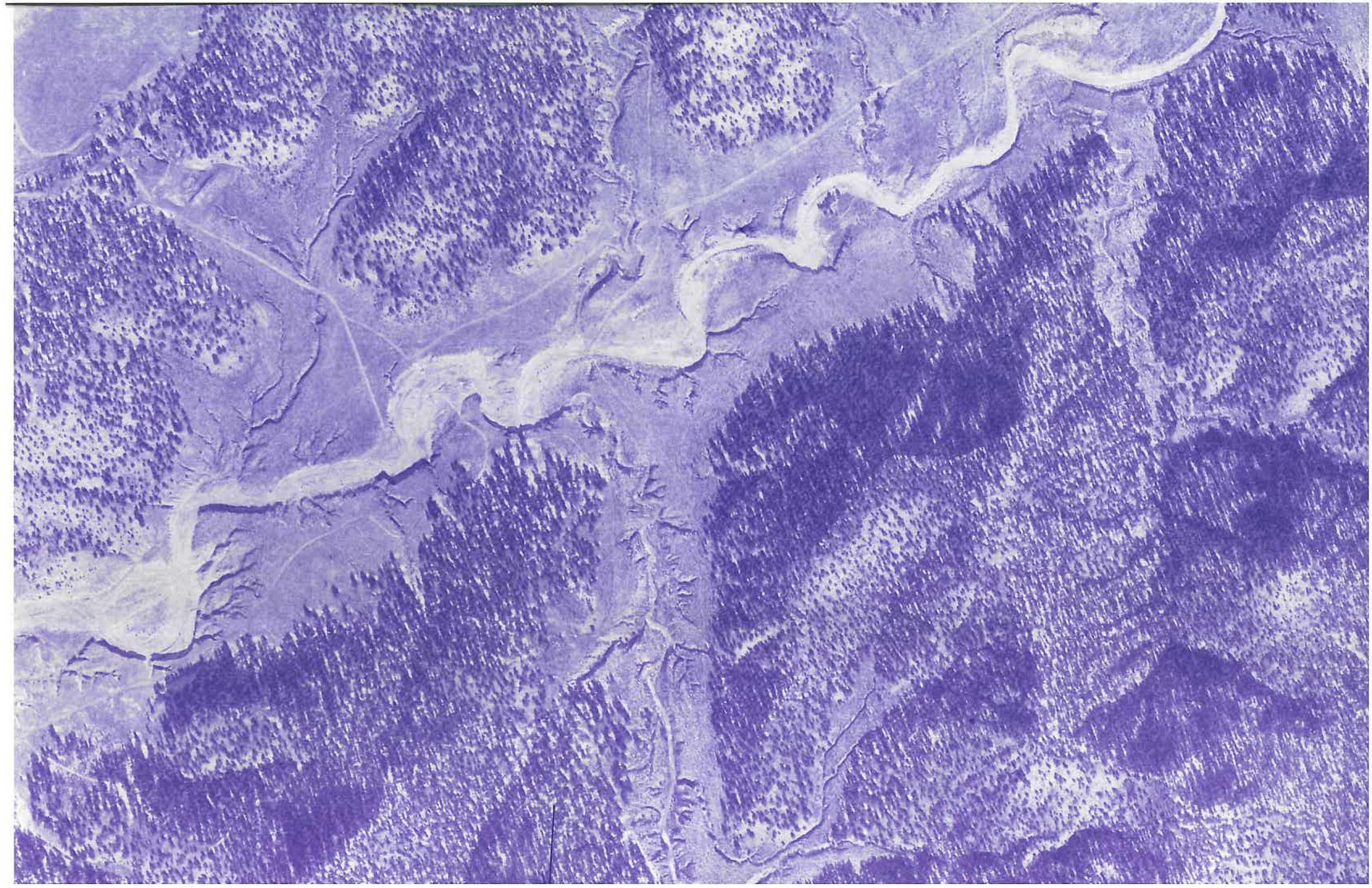
12A

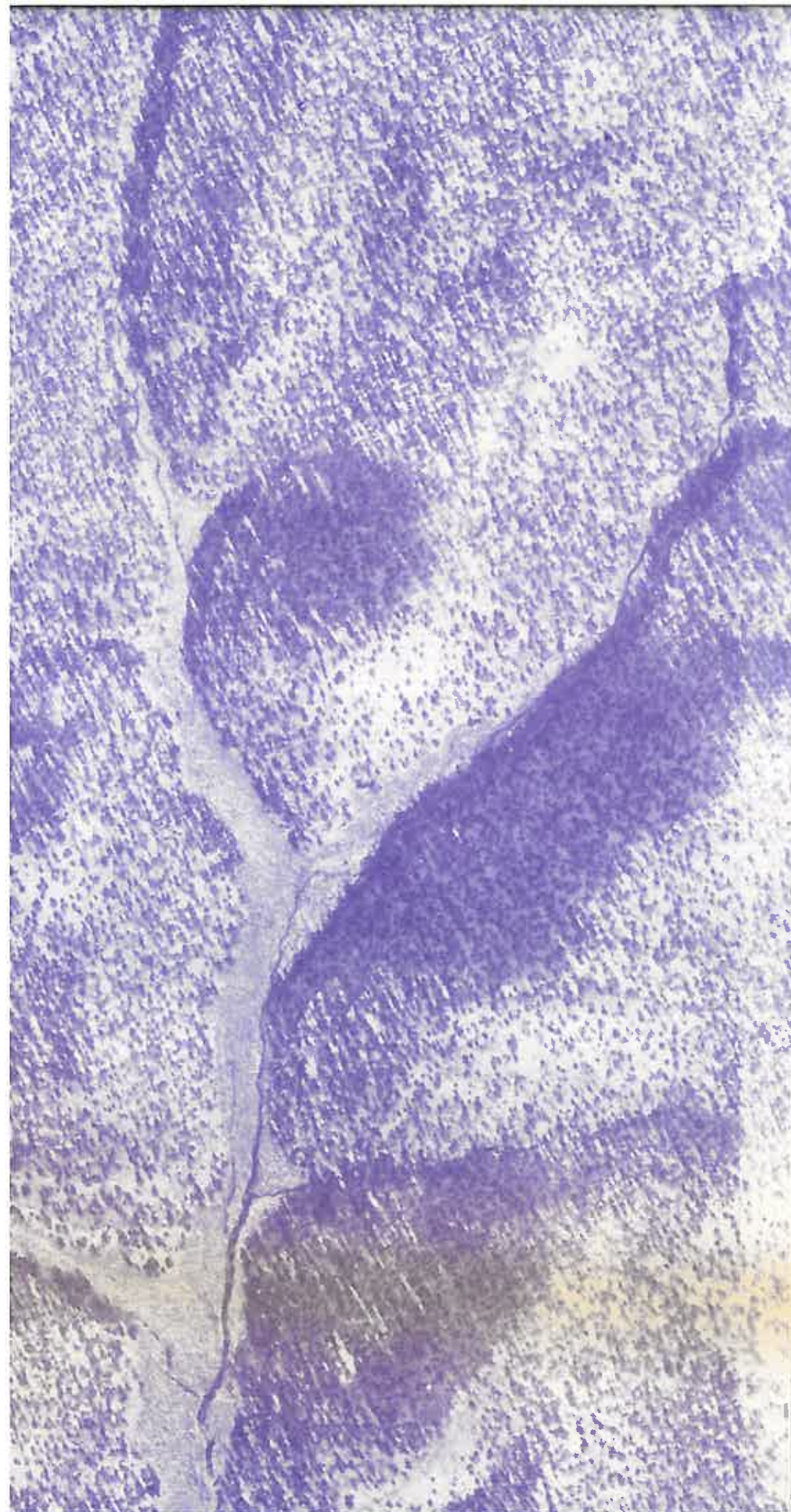
12B

12C

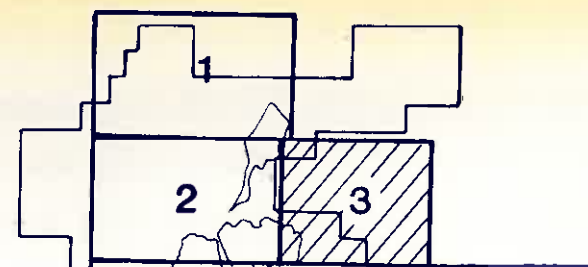




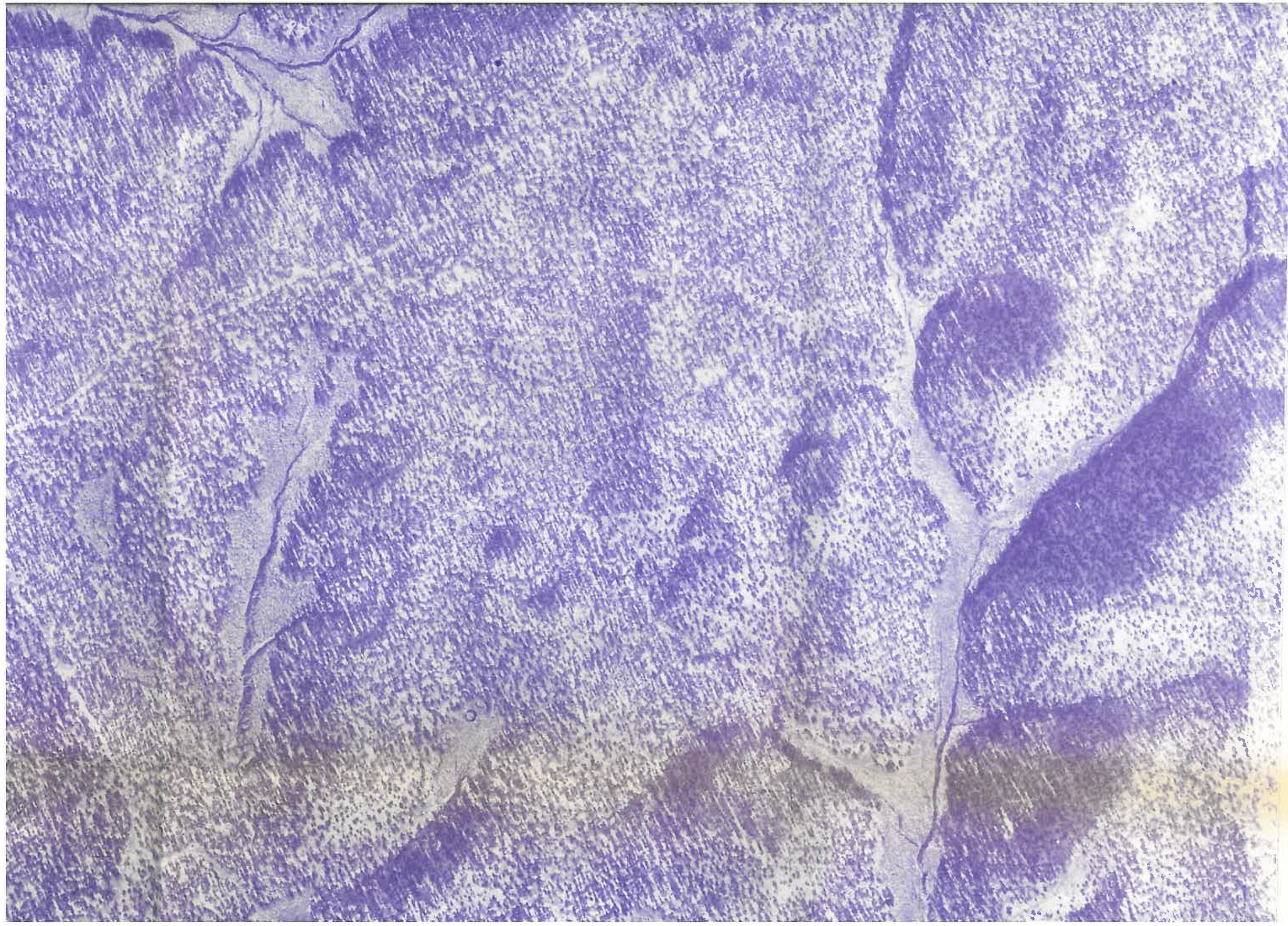




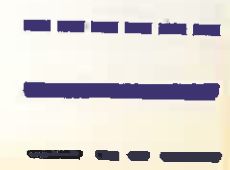
G11B	Cahona very fine sandy loam, gravelly substratum, 2 to 8 percent slopes
X11	Cahona - Cahona, bedrock substratum, very fine sandy loams, 2 to 10 percent slopes
X11A	Cahona - Cahona, bedrock substratum, very fine sandy loams, 1 to 4 percent slopes
X11B	Cahona - Cahona, bedrock substratum, very fine sandy loams, 4 to 8 percent slopes
X11C	Cahona - Cahona, bedrock substratum, very fine sandy loams, 8 to 15 percent slopes
12	Begay loam, 2 to 10 percent slopes
12A	Begay loam, 1 to 4 percent slopes
12B	Begay loam, 4 to 8 percent slopes
12C	Begay loam, 8 to 15 percent slopes
13, 13A	San Mateo loam, 0 to 3 percent slopes
14A	Oelop very fine sandy loam, 1 to 4 percent slopes
14B	Oelop very fine sandy loam, 4 to 8 percent slopes
15, 15A	Las Lucas sandy clay loam, 2 to 6 percent slopes
16C	Soil A - Soil B extremely channery very fine sandy loams, 4 to 15 percent slopes
16E	Soil A - Soil B extremely channery very fine sandy loams, 15 to 50 percent slopes
16F	Soil A - Soil B extremely channery very fine sandy loams, 50 to 70 percent slopes
17C	Chilton gravelly fine sandy loam, 6 to 15 percent slopes
DL	Disturbed land
TS	Topsoil stockpile
RW	Riverwash
W	Water
-----	Disturbance boundary
=====	Survey area boundary
-----	Crop line
●	Soil sampling site
~~~~~	Mapping unit delineation
	Moist/dry phase demarcation



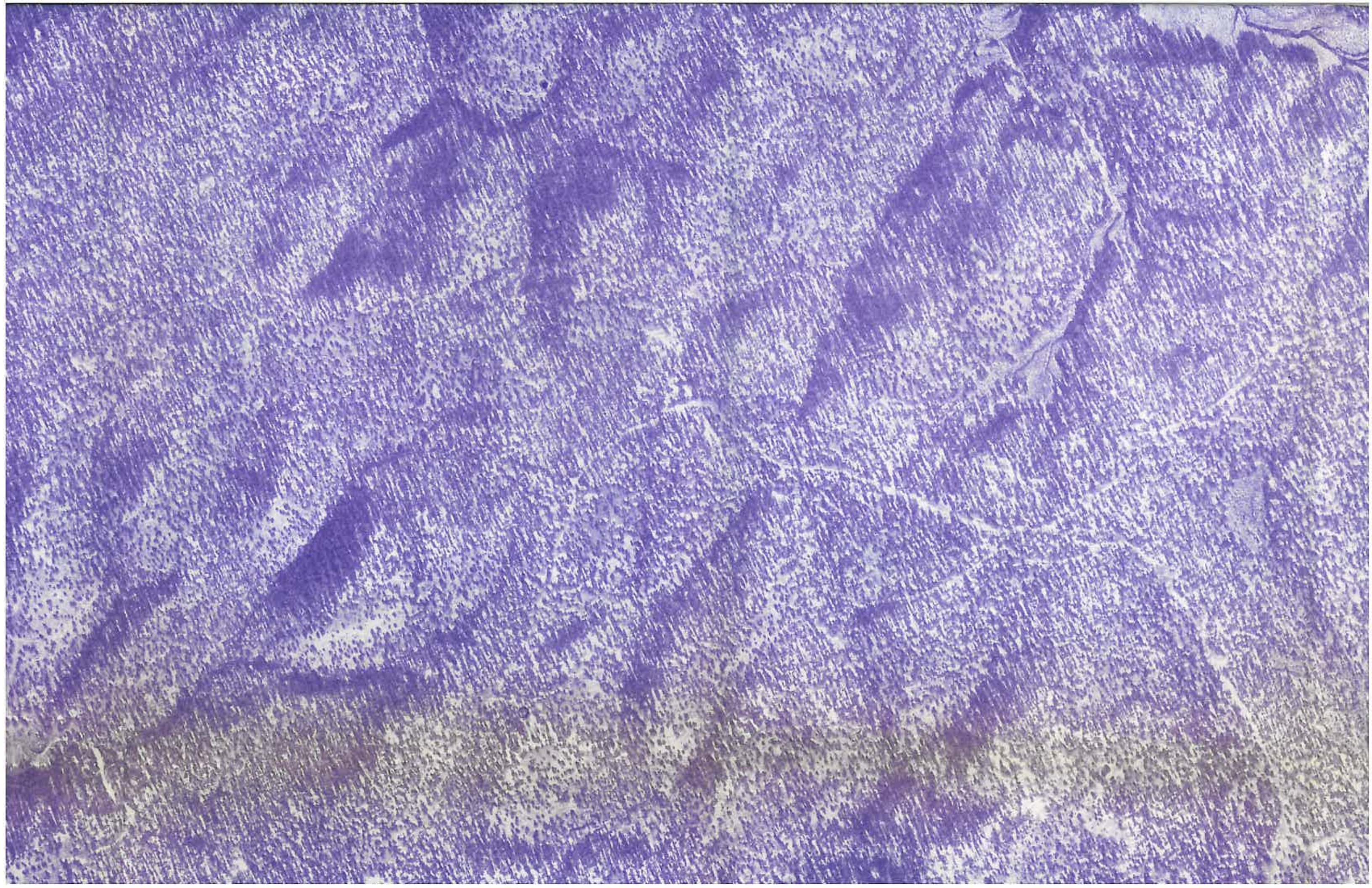




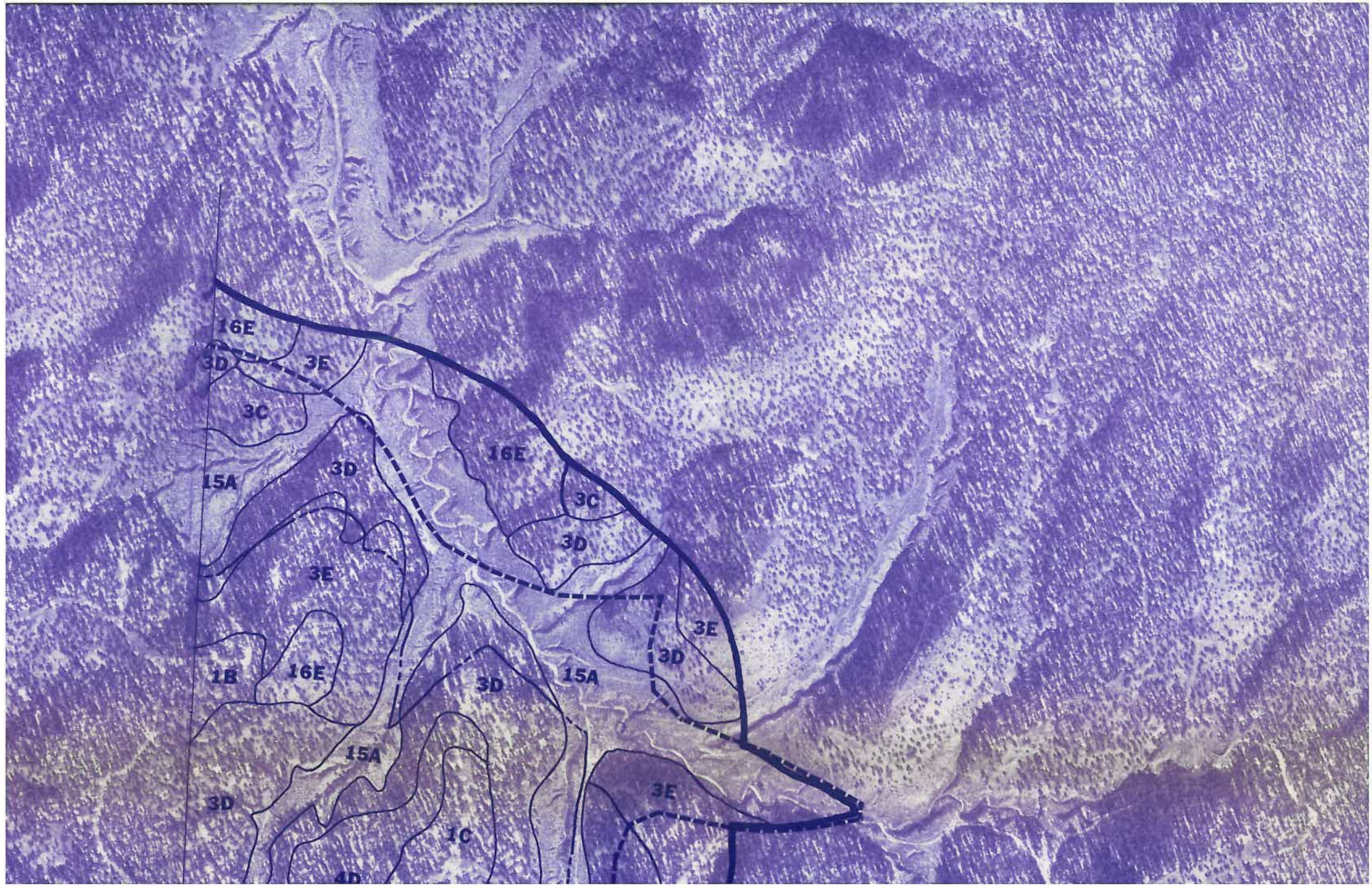
TTC  
G11B  
X11  
X11A  
X11B  
X11C  
12  
12A  
12B  
12C  
13, 13  
14A  
14B  
15, 15/  
16C  
16E  
16F  
17C  
DL  
TS  
RW  
W



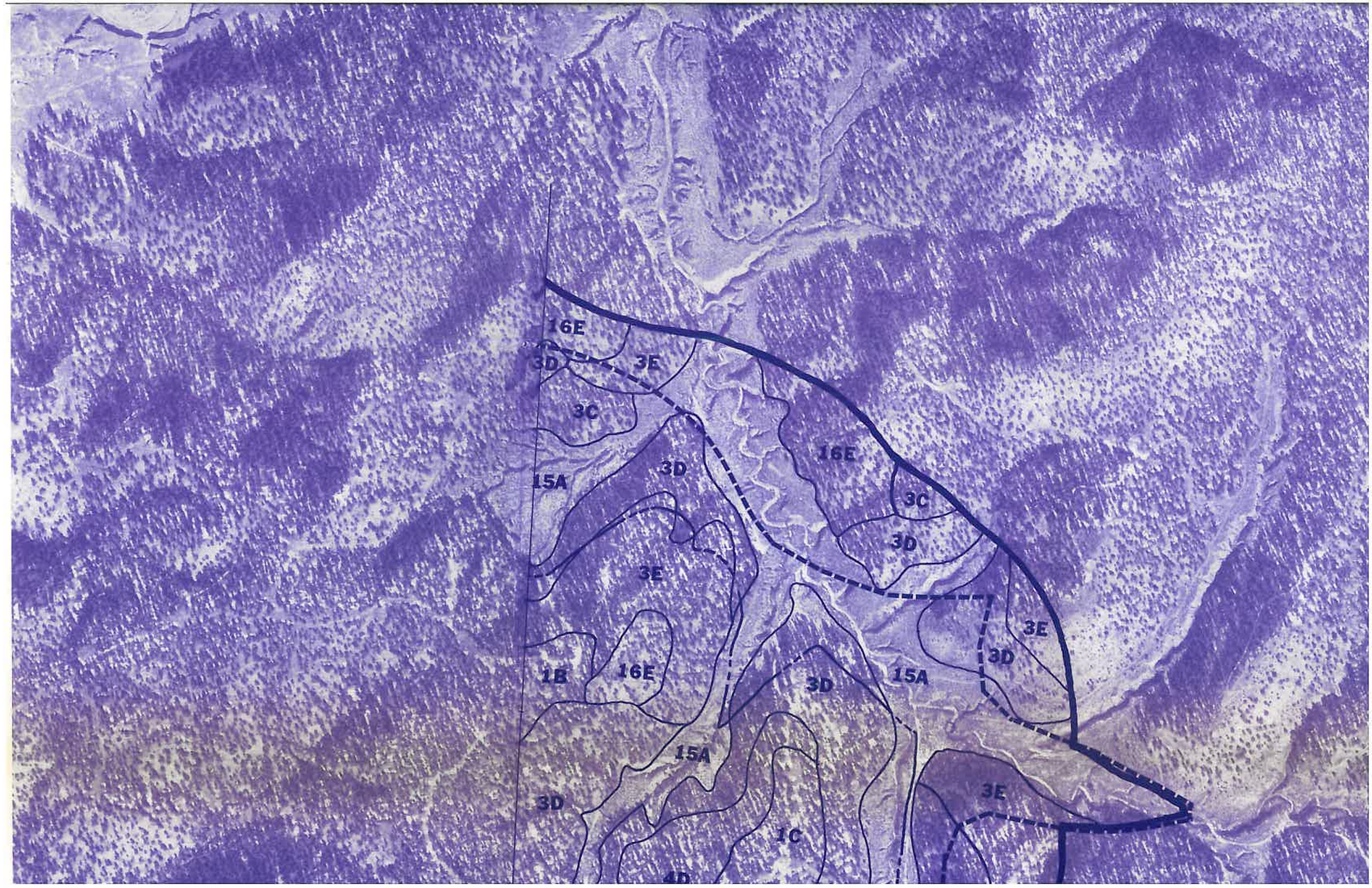














**N-11  
MINING AREA**





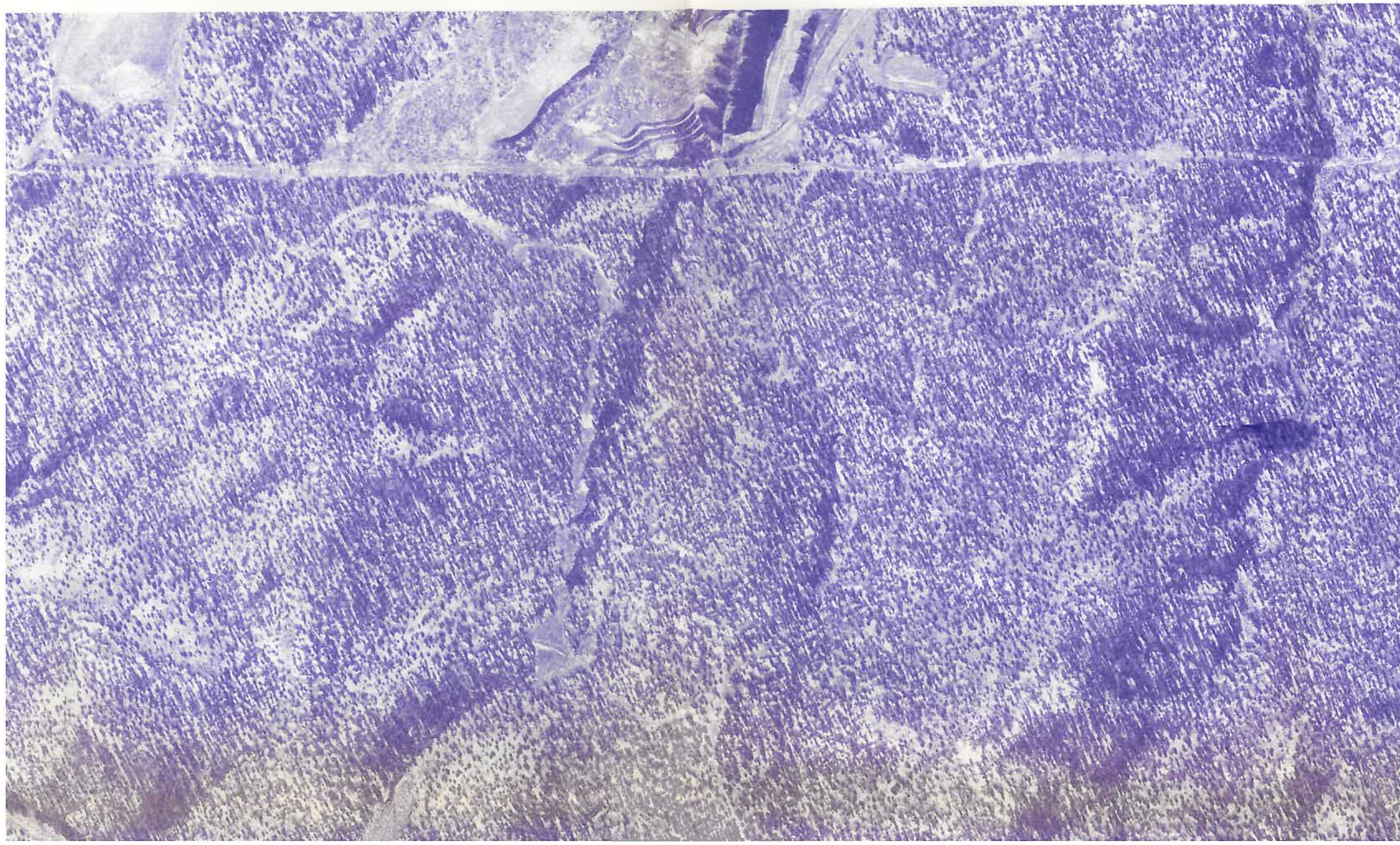
**N-11**  
**MINING AREA**

3D

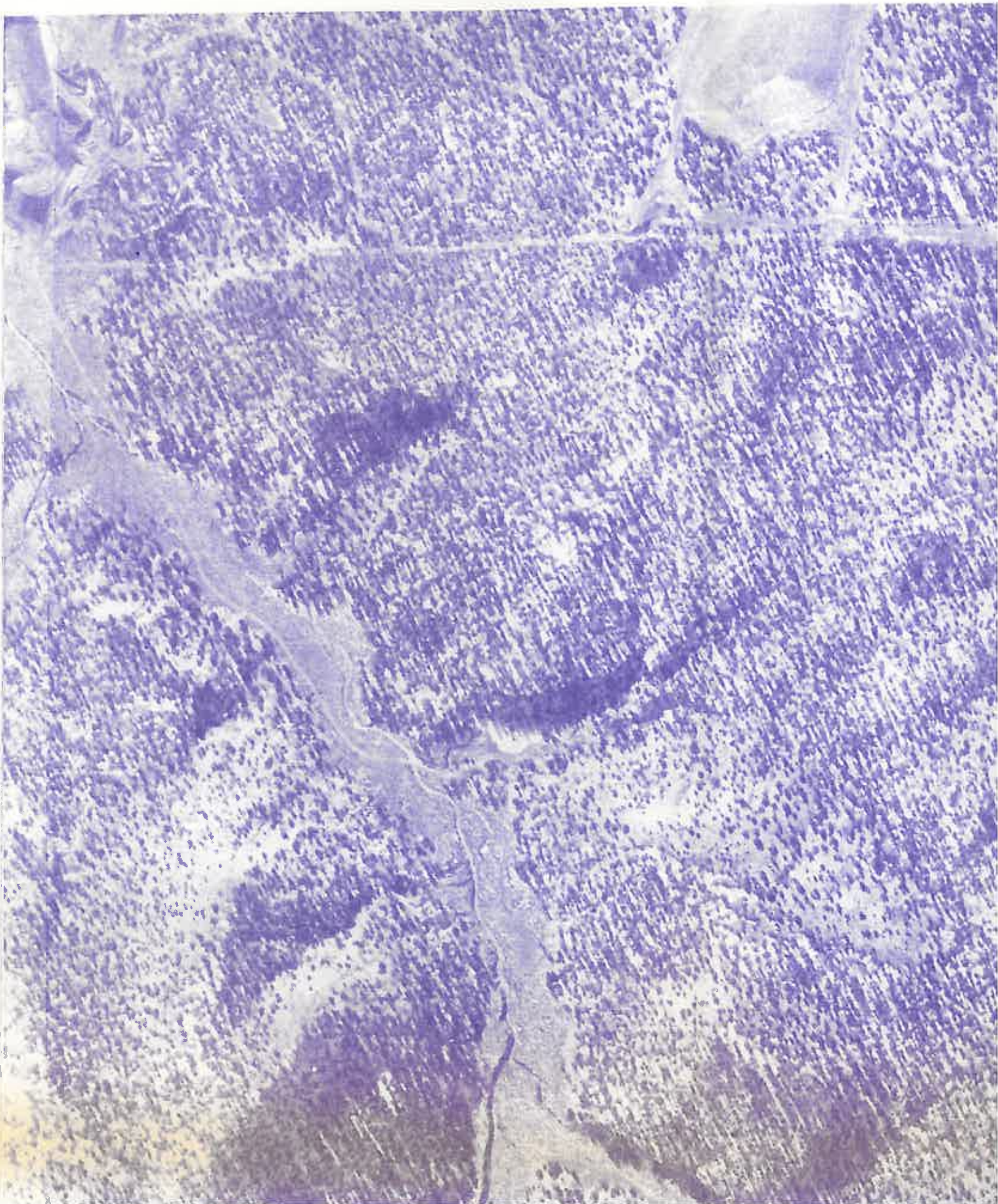
3E

6C





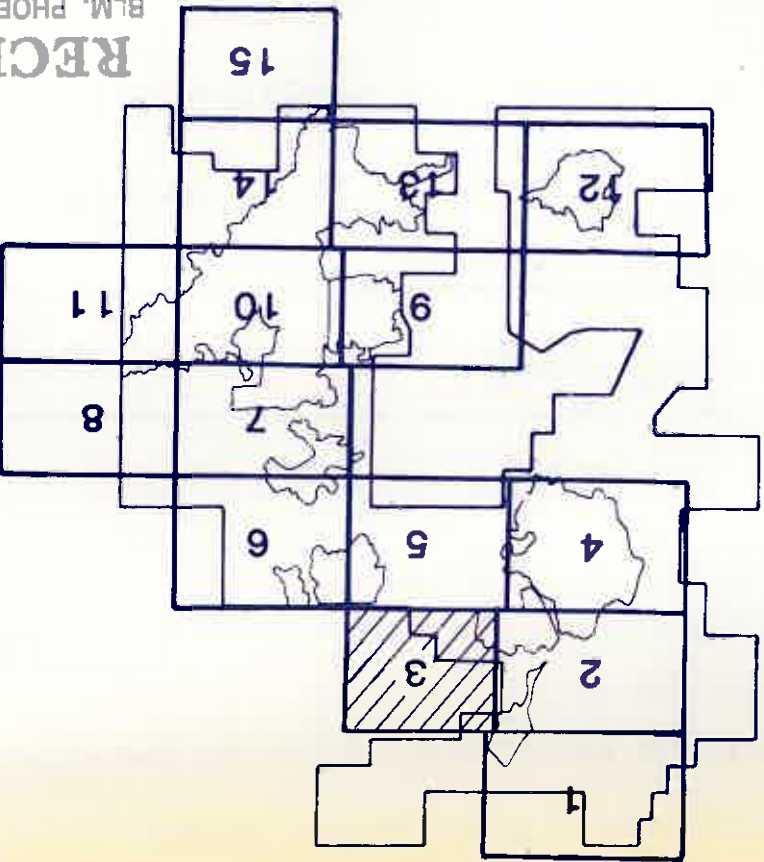




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Crop line

Moist/dry pha



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PHOENIX, ARIZONA

MAR 03 1986

PEABODY COAL COMPANY  
BLACK MESA-KAYENTA MINE

P.O. BOX 625  
KAYENTA, ARIZONA 86033

ORG. No.		85306A		SHEET No.		3 of 15		DRAWN BY		PJN		DATE		Nov. 85		SCALE		1"=400'		C.L.		N/A	
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**THE UNIVERSITY OF CHICAGO**



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ORG NO.

85305A  
SHEET NO. 3 of 15

DATE NOV. 85

C.I.	N/A
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Prepared by :