

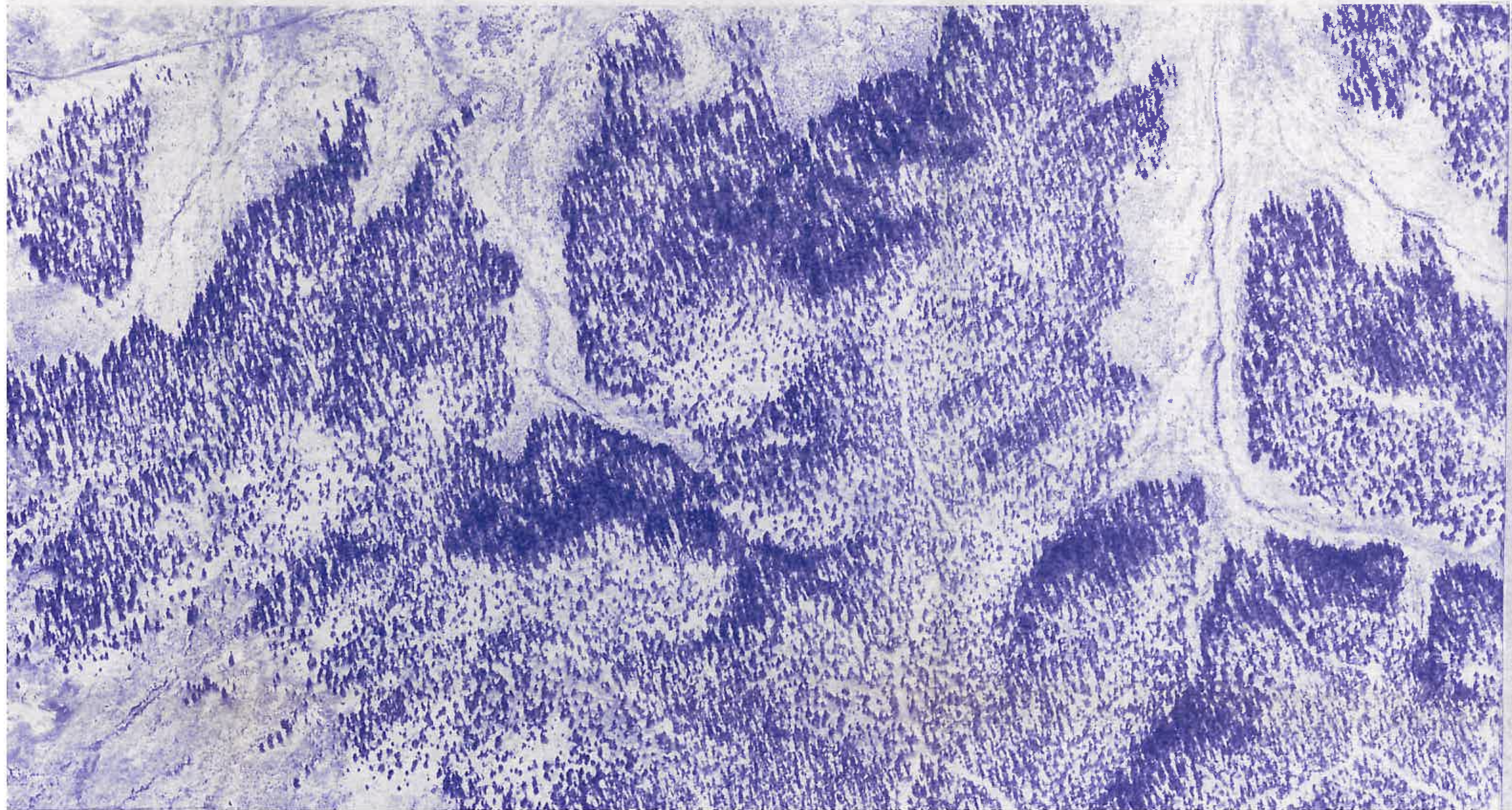
PEABODY COAL COMPANY
BLACK MESA - KAYENTA MINE
DRAWING NO. 85305A

LEGEND

Symbol

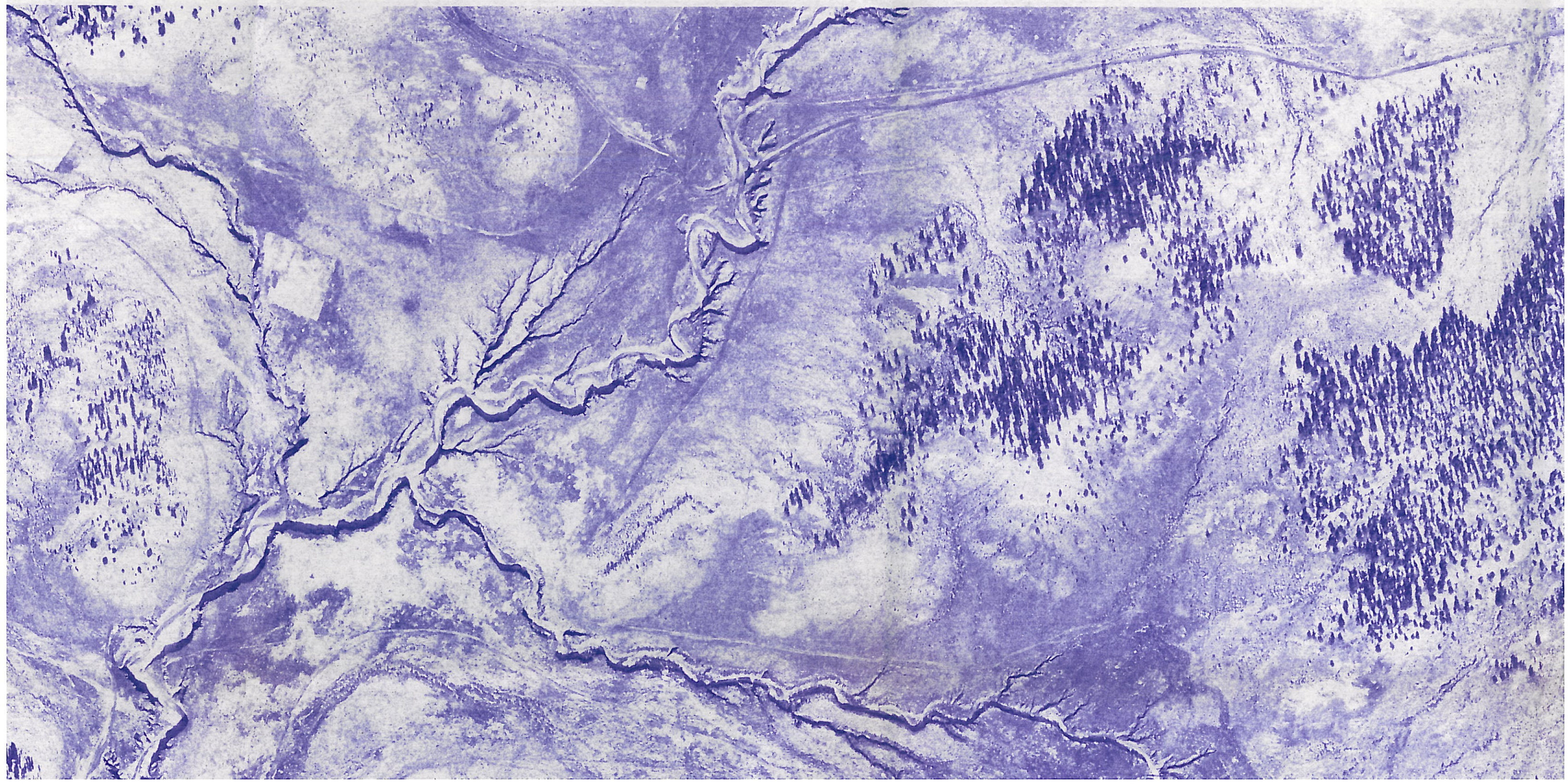
Name

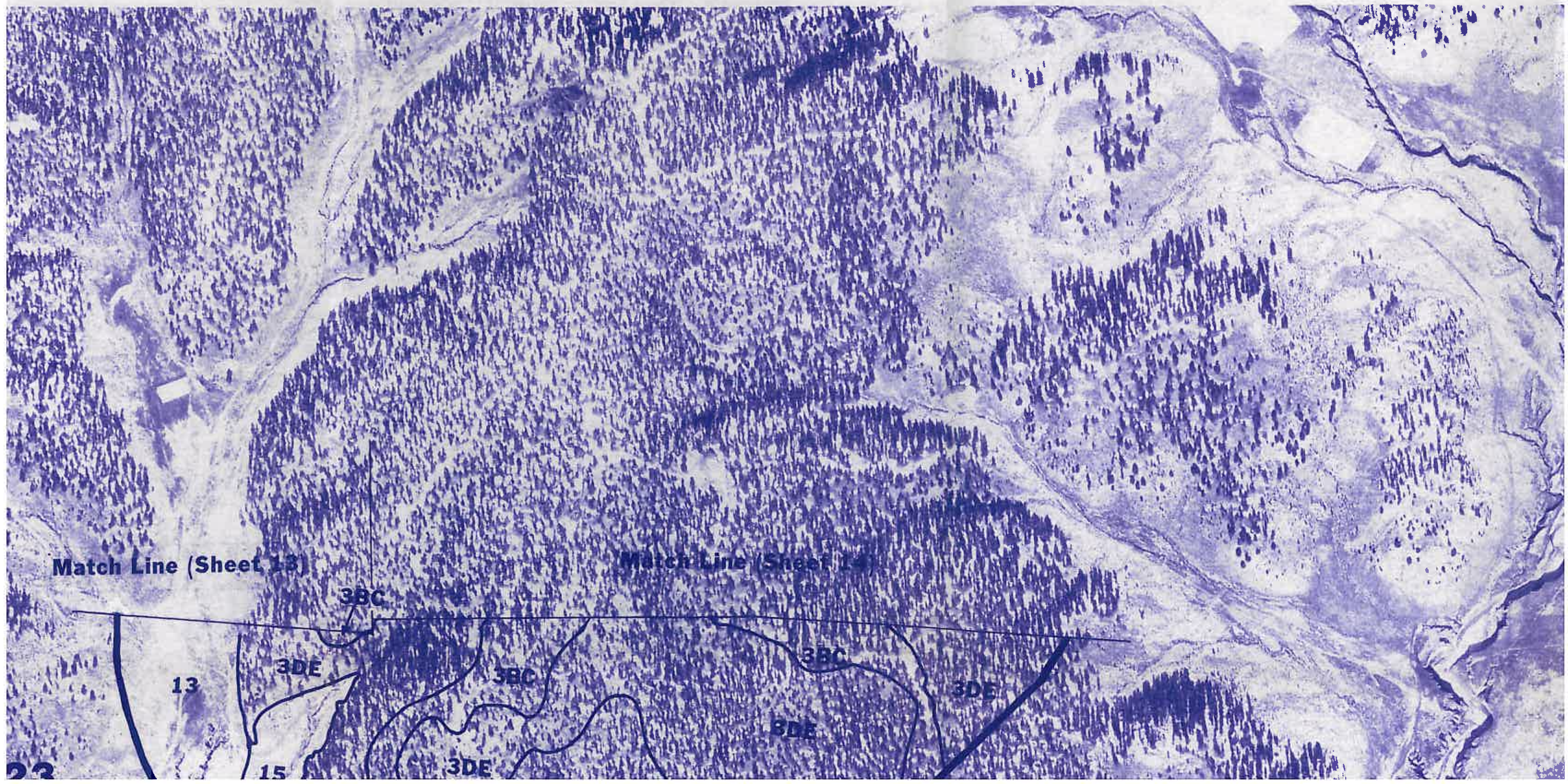
1A	Dulce very channery fine sandy loam, 1 to 4 percent slopes
1, 1B	Dulce very channery fine sandy loam, 4 to 8 percent slopes
1C	Dulce very channery fine sandy loam, 8 to 15 percent slopes
1D	Dulce very channery fine sandy loam, 15 to 30 percent slopes
2B	Bond very fine sandy loam, 1 to 8 percent slopes
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

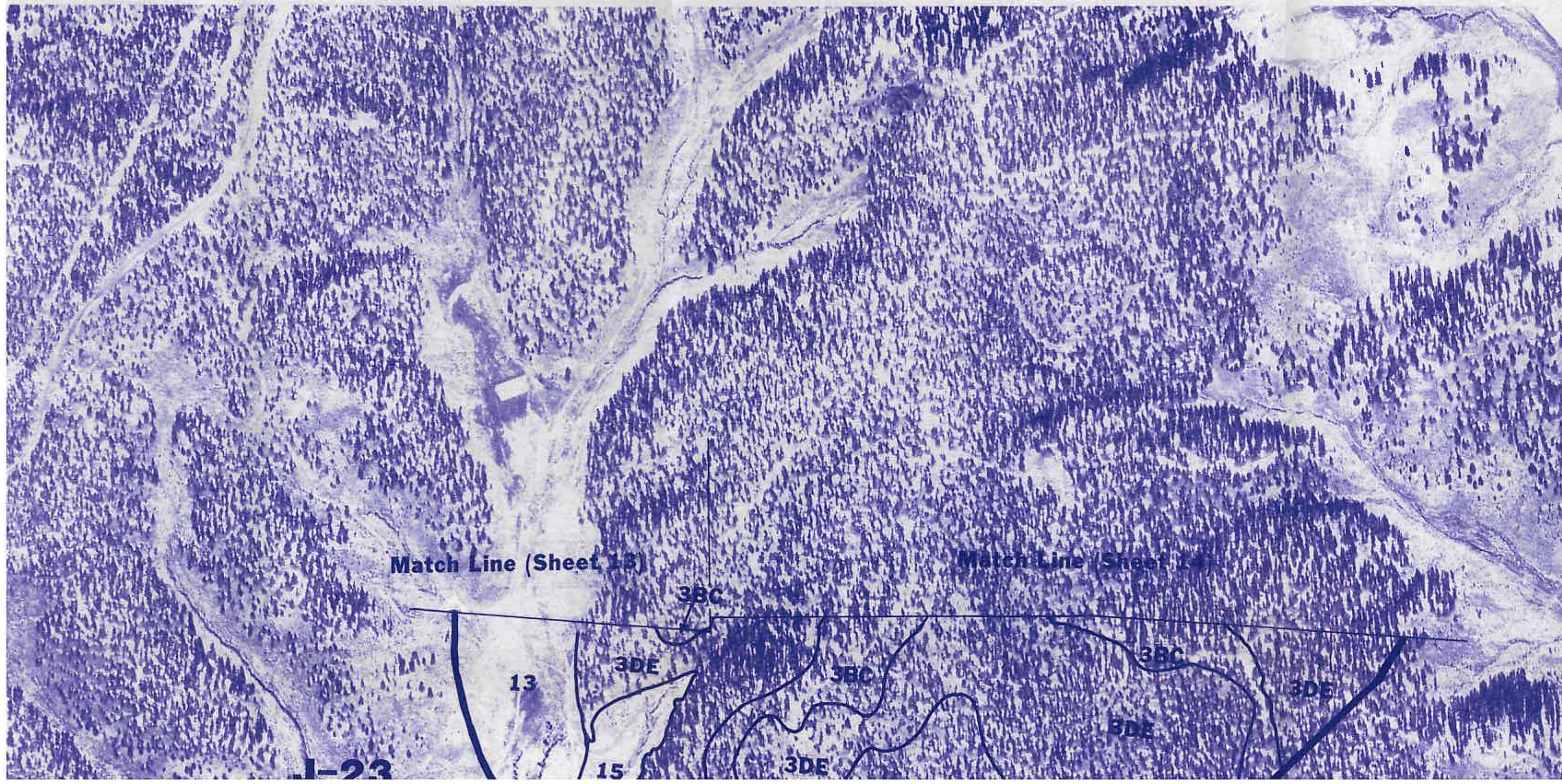


Sym

- 1A
- 1, 1
- 1C
- 1D
- 2B
- 3A
- 3B
- 3C
- 3D
- 3D
- 3E
- 3F
- 4A
- 4B
- 4C

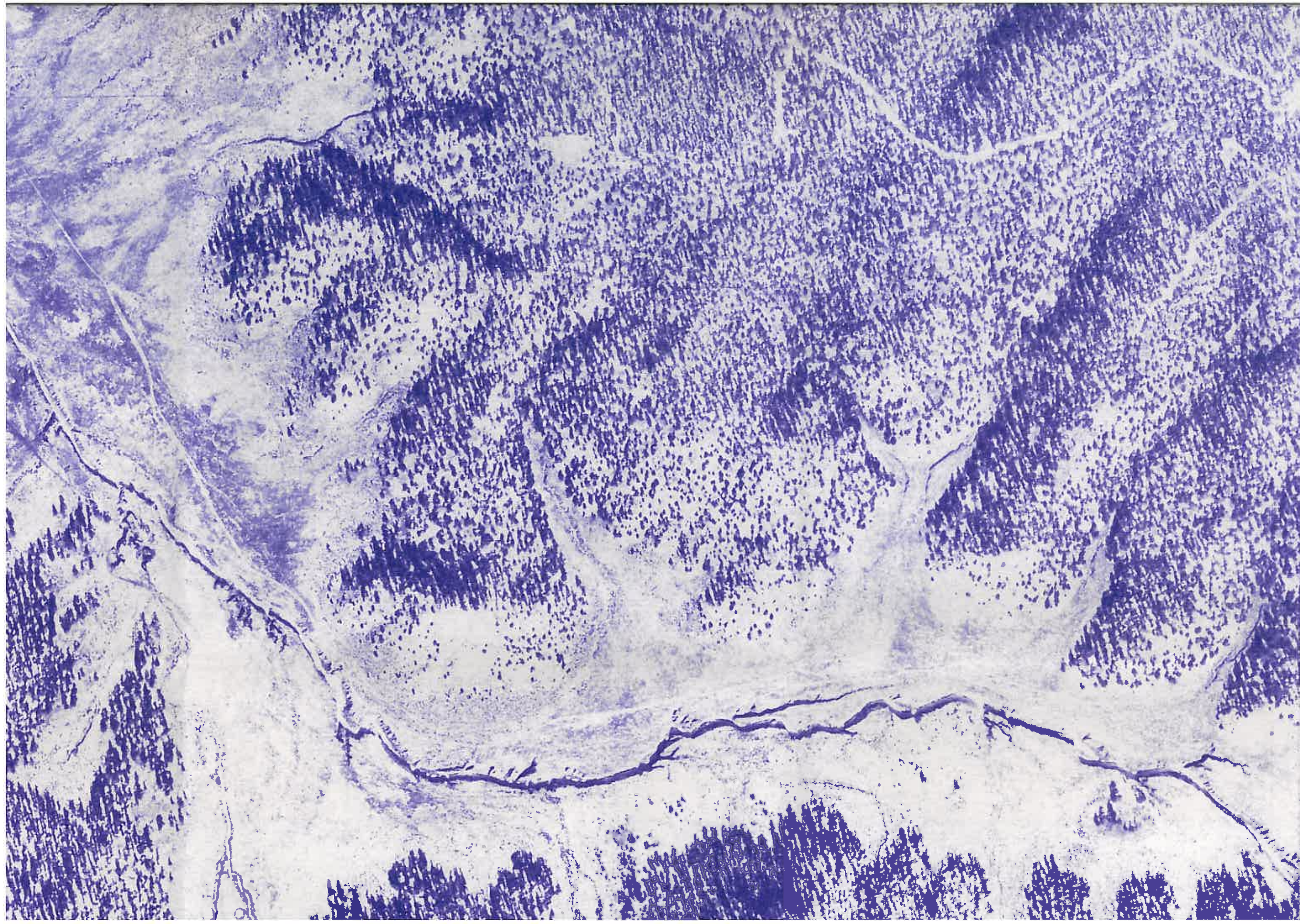








- 4A Zyme very channery loam, 1 to 4 percent slopes
- 4B Zyme very channery loam, 4 to 8 percent slopes
- 4C Zyme very channery loam, 8 to 15 percent slopes
- 4D Zyme very channery loam, 15 to 30 percent slopes
- 5 Pulpit very fine sandy loam, 2 to 8 percent slopes
- 6 Sharps very fine sandy loam, 2 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
- 13 13A San Mateo loam, 0 to 3 percent slopes



4A

4B

4C

4D

5

6

6A

6B

6C

7B

7C

7D

7E

10

10A

10B

10C

11

11A

11B

11C

G11E

X11

X11A

X11B

X11C

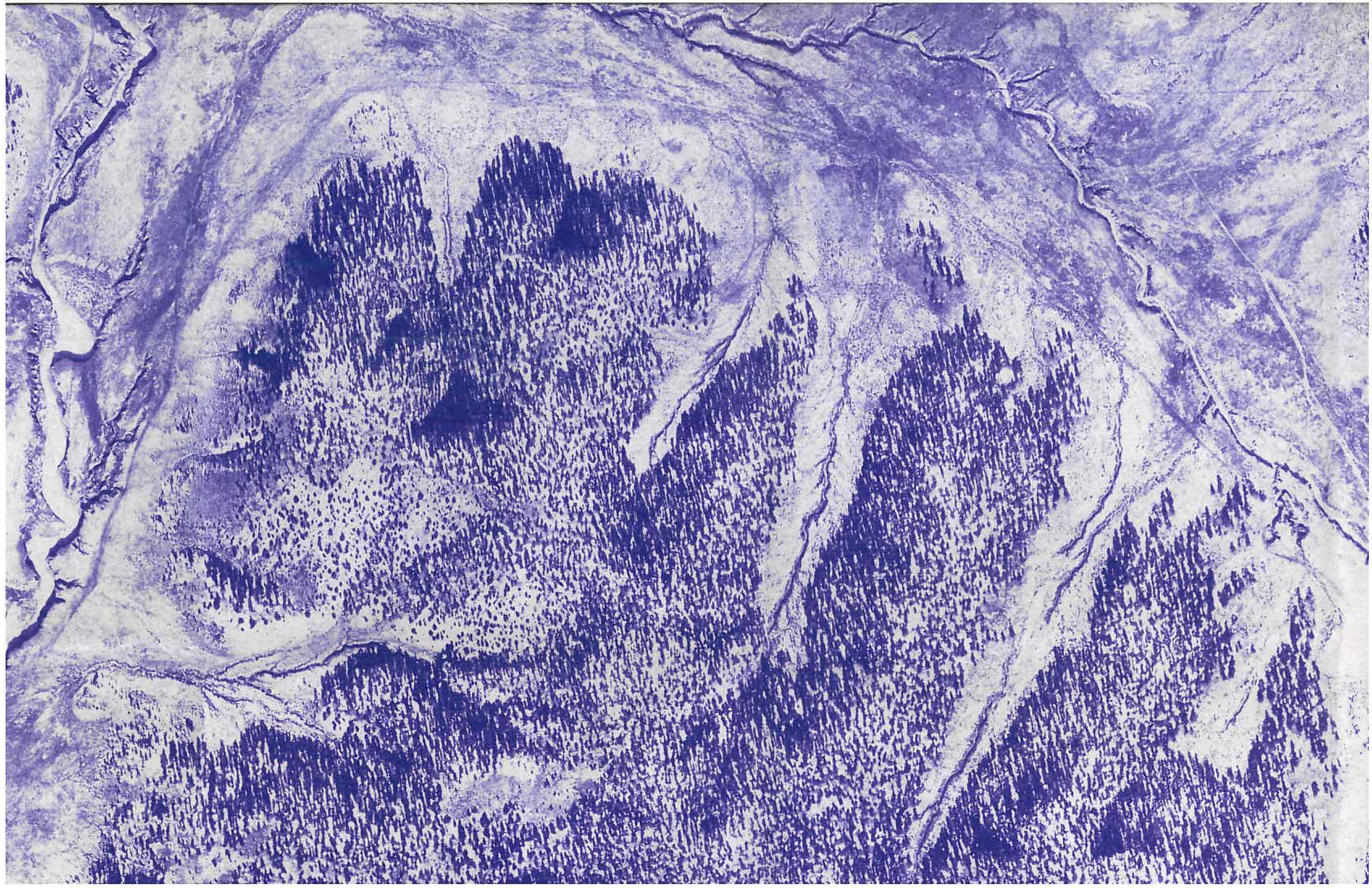
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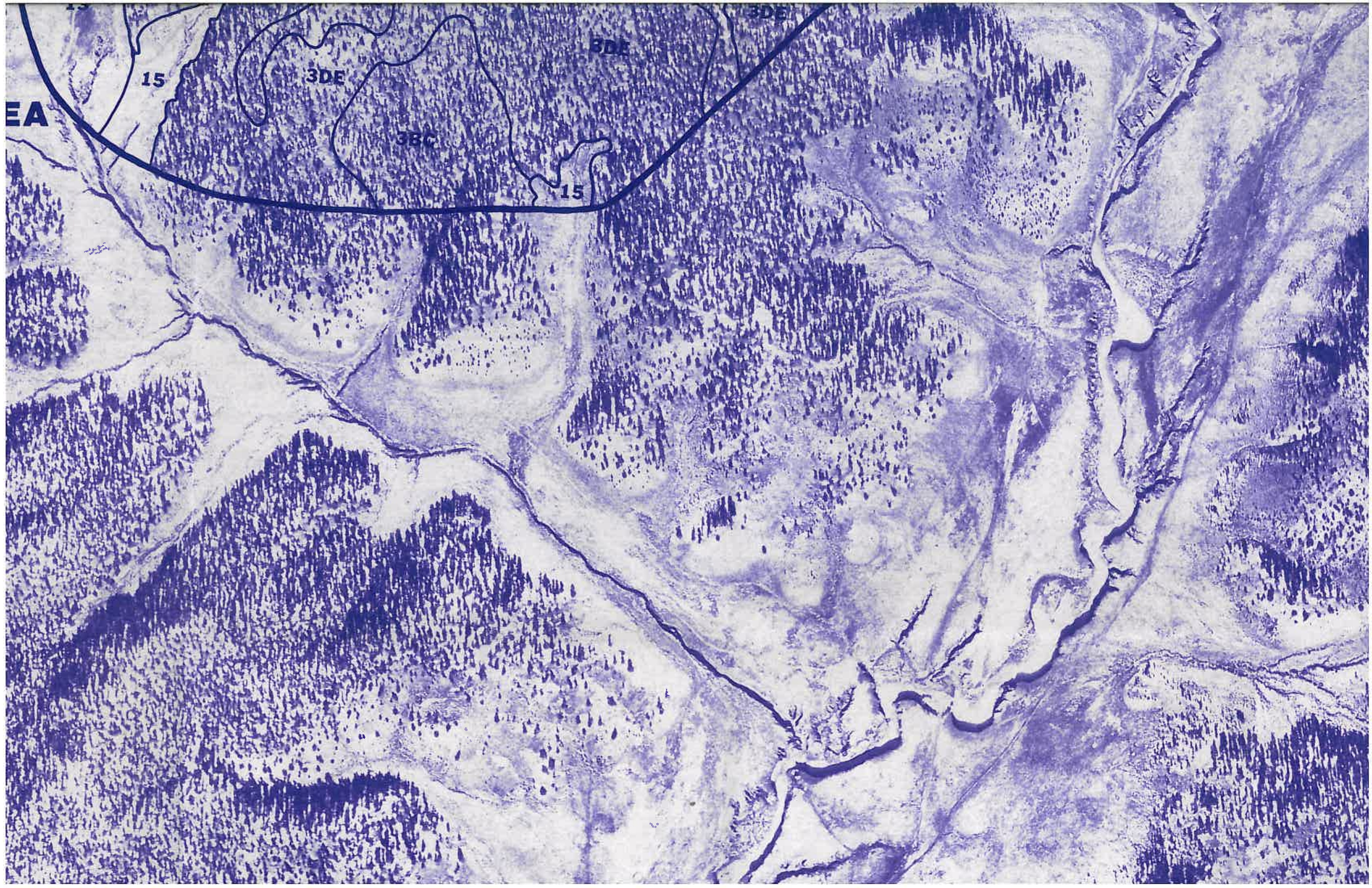
12A

12B

12C

13. 14





**J-23
MINING AREA**

13

15

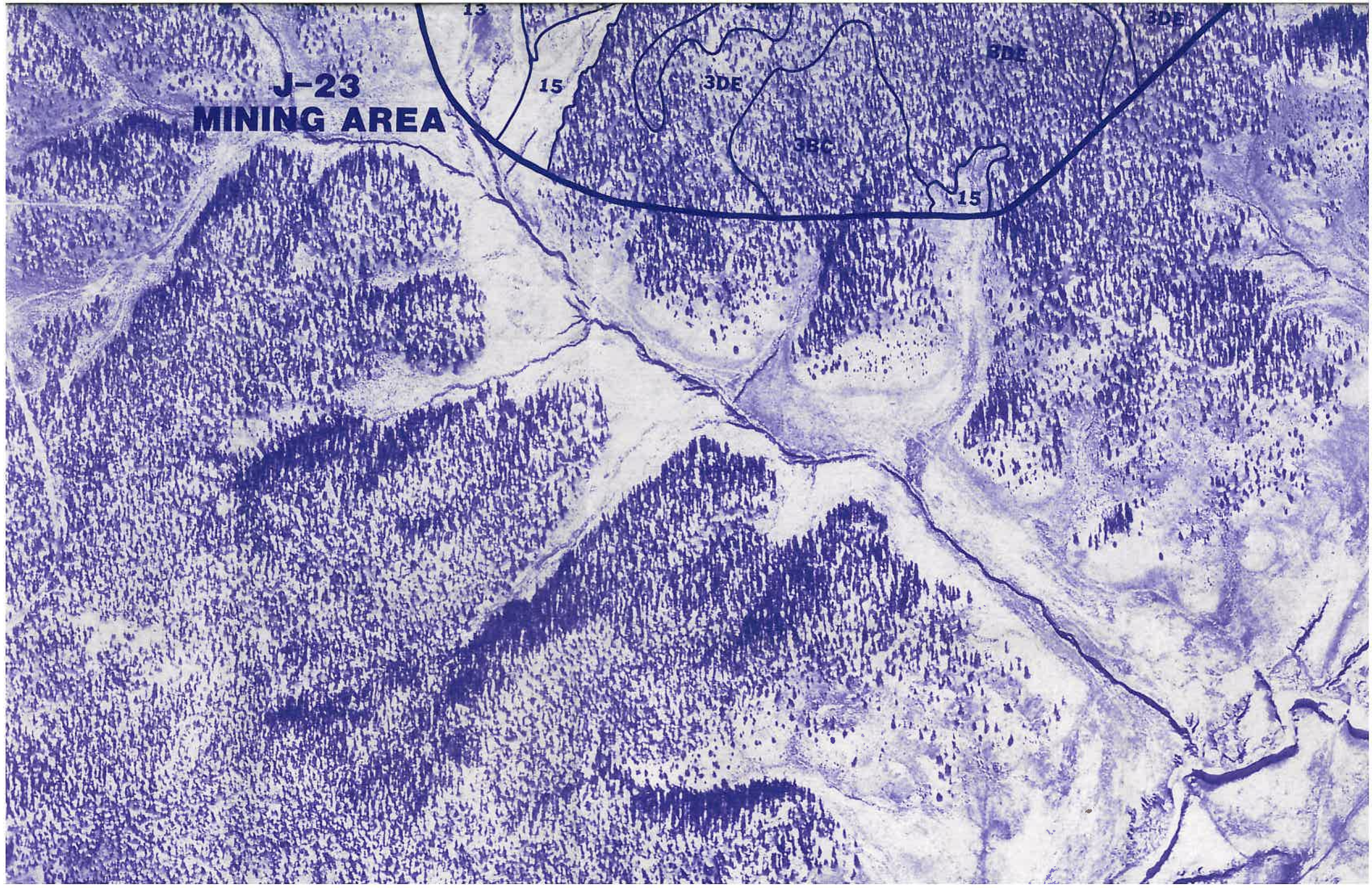
3DE

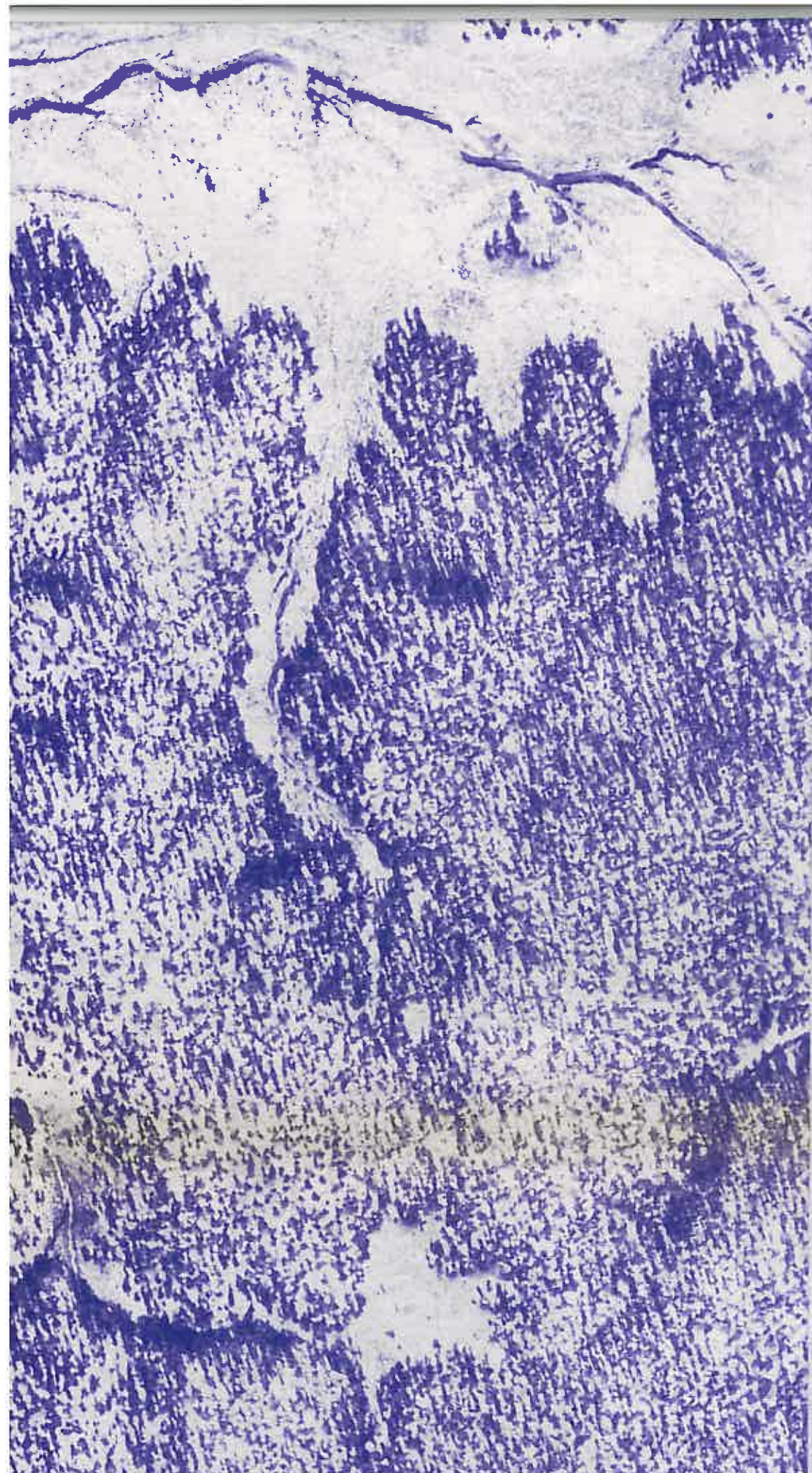
3DE

15

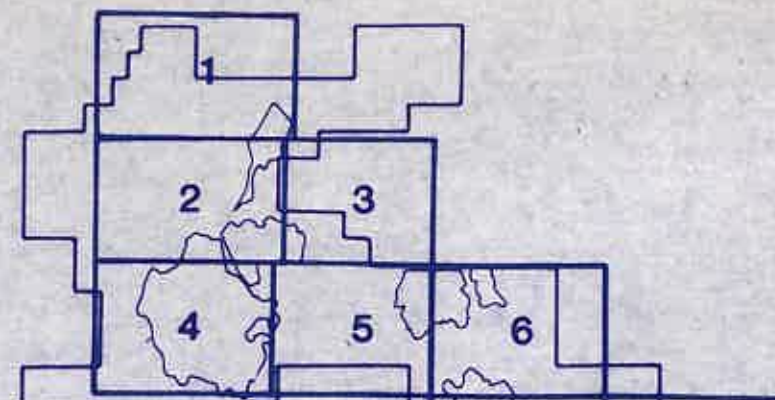
3DE

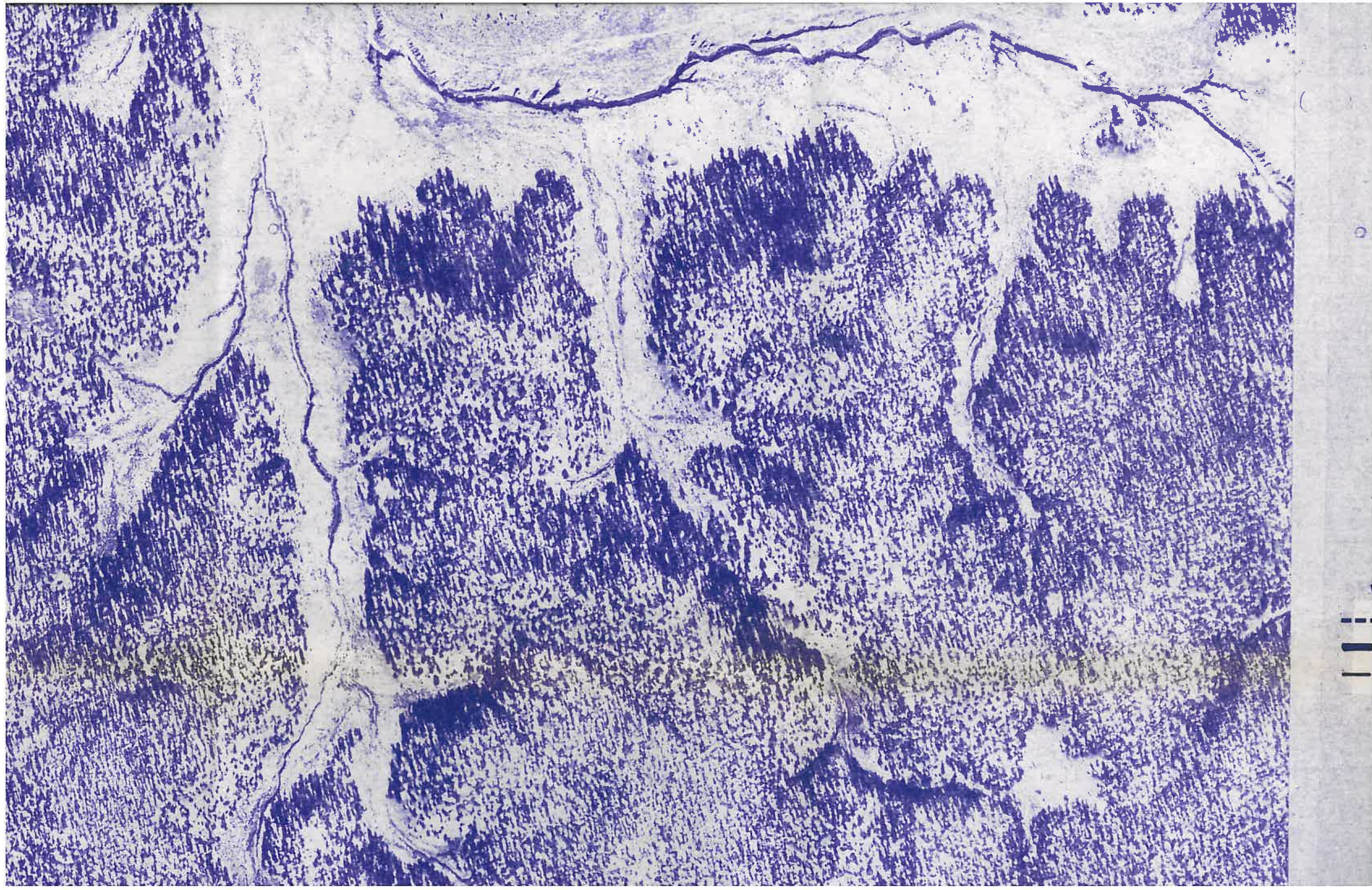
3DE

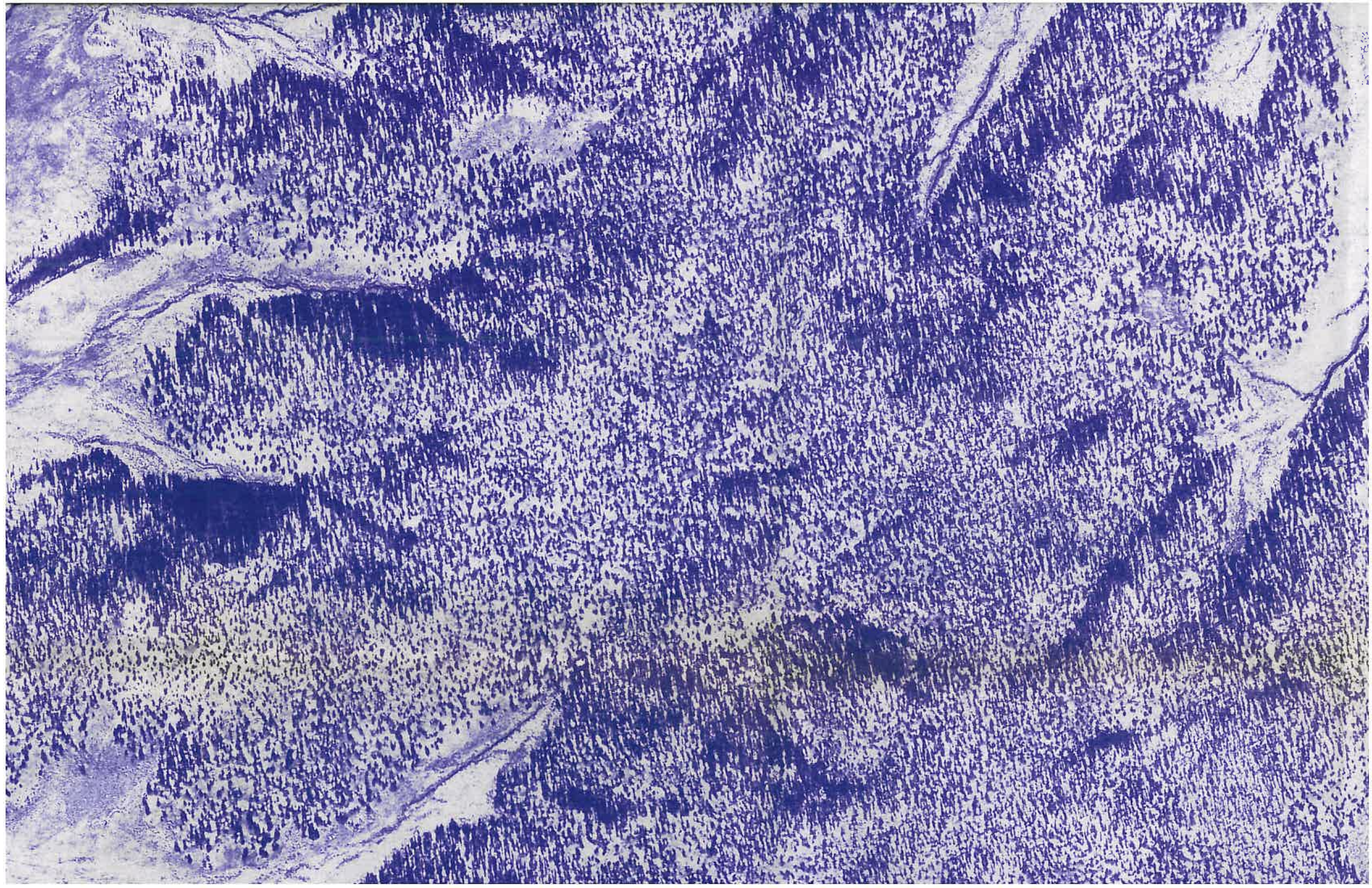


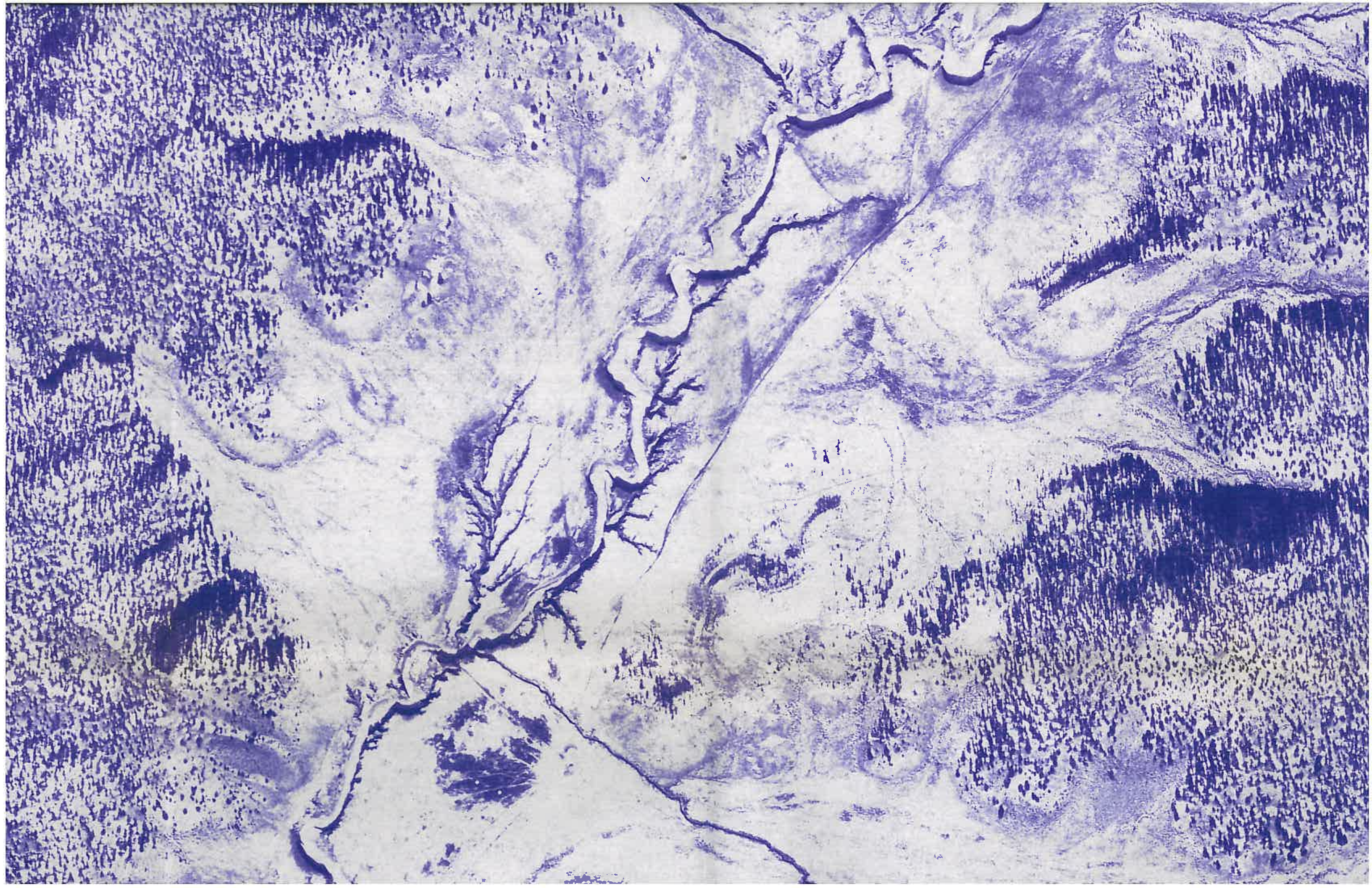


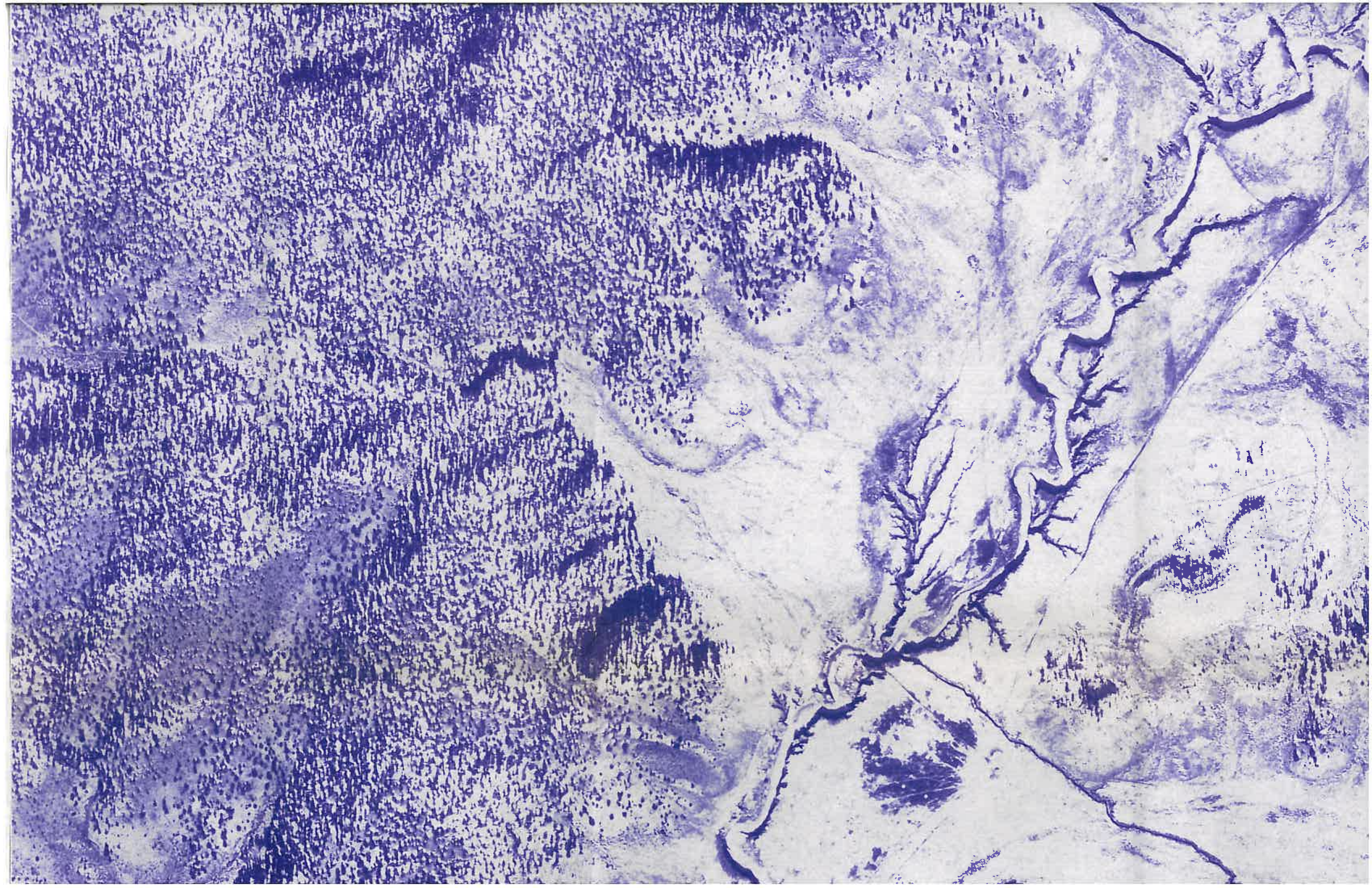
X11	Cahona - Cahona, bedrock substratum, very fine sandy loams, 2 to 10 percent slopes
X11A	Cahona -Cahona, bedrock substratum, very fine sandy loams, 1 to 4 percent slopes
X11B	Cahona - Cahona, bedrock substratum, very fine sandy loams, 4 to 8 percent slopes
X11C	Cahona - Cahona, bedrock substratum, 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

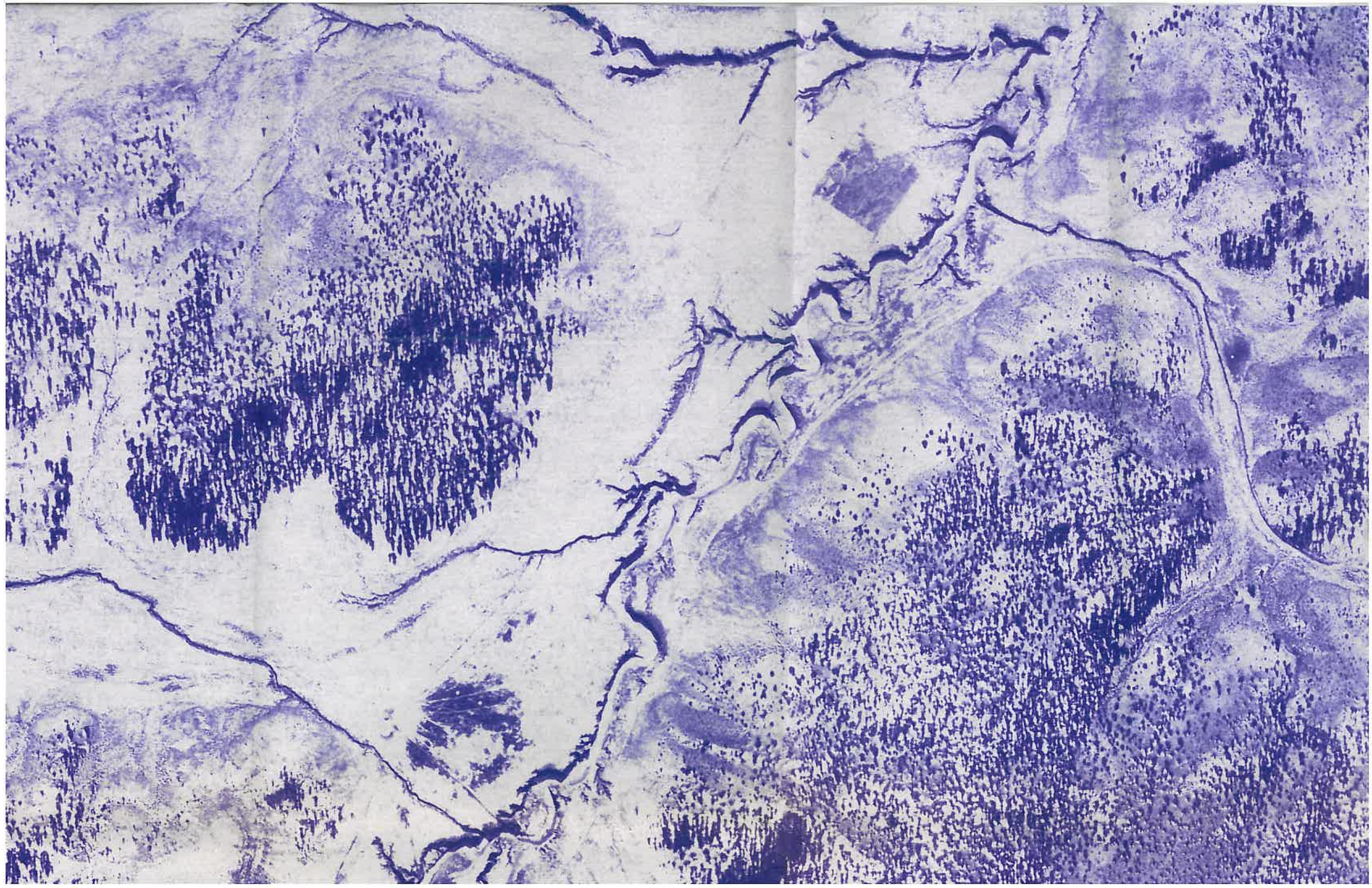


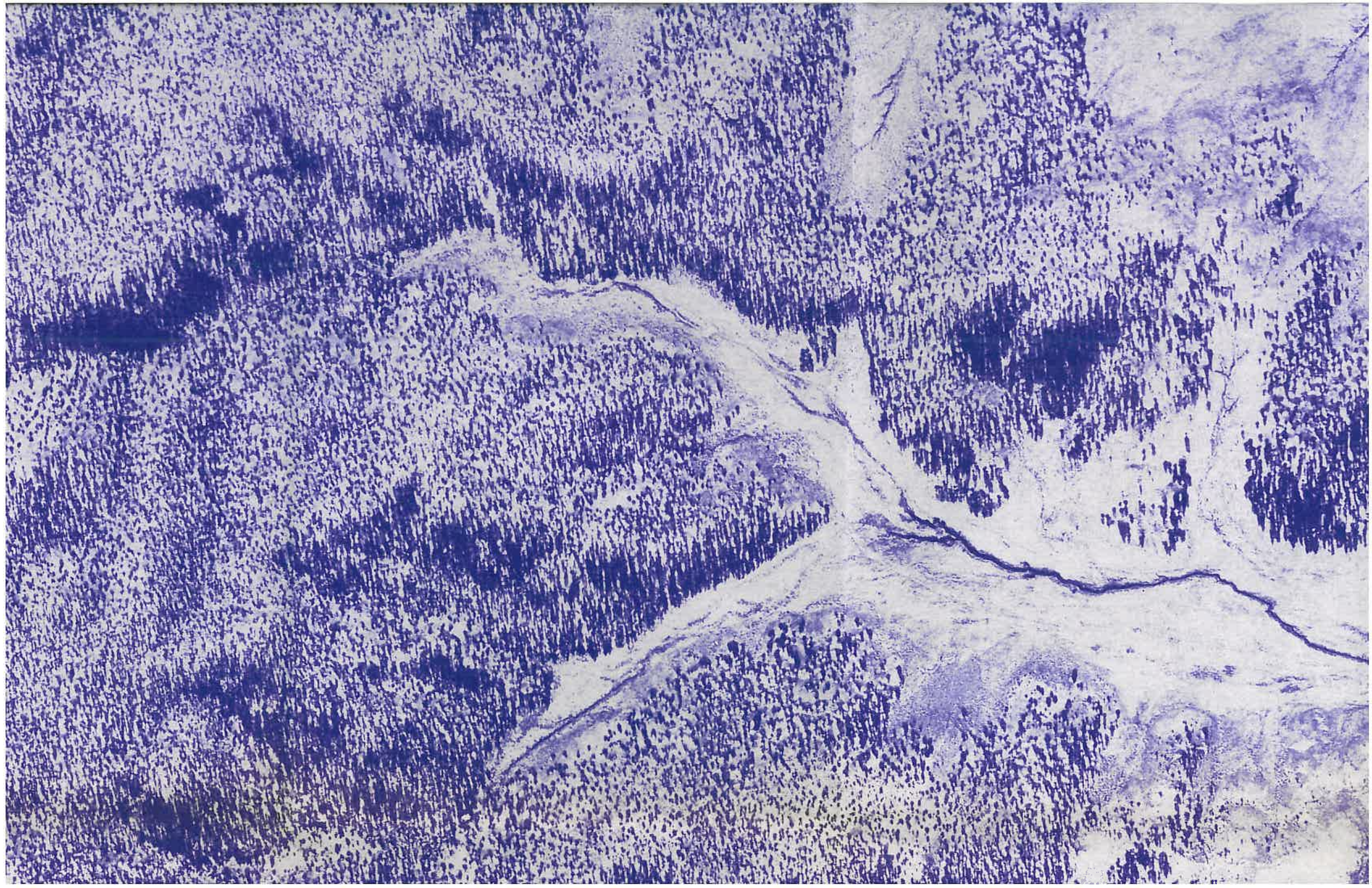


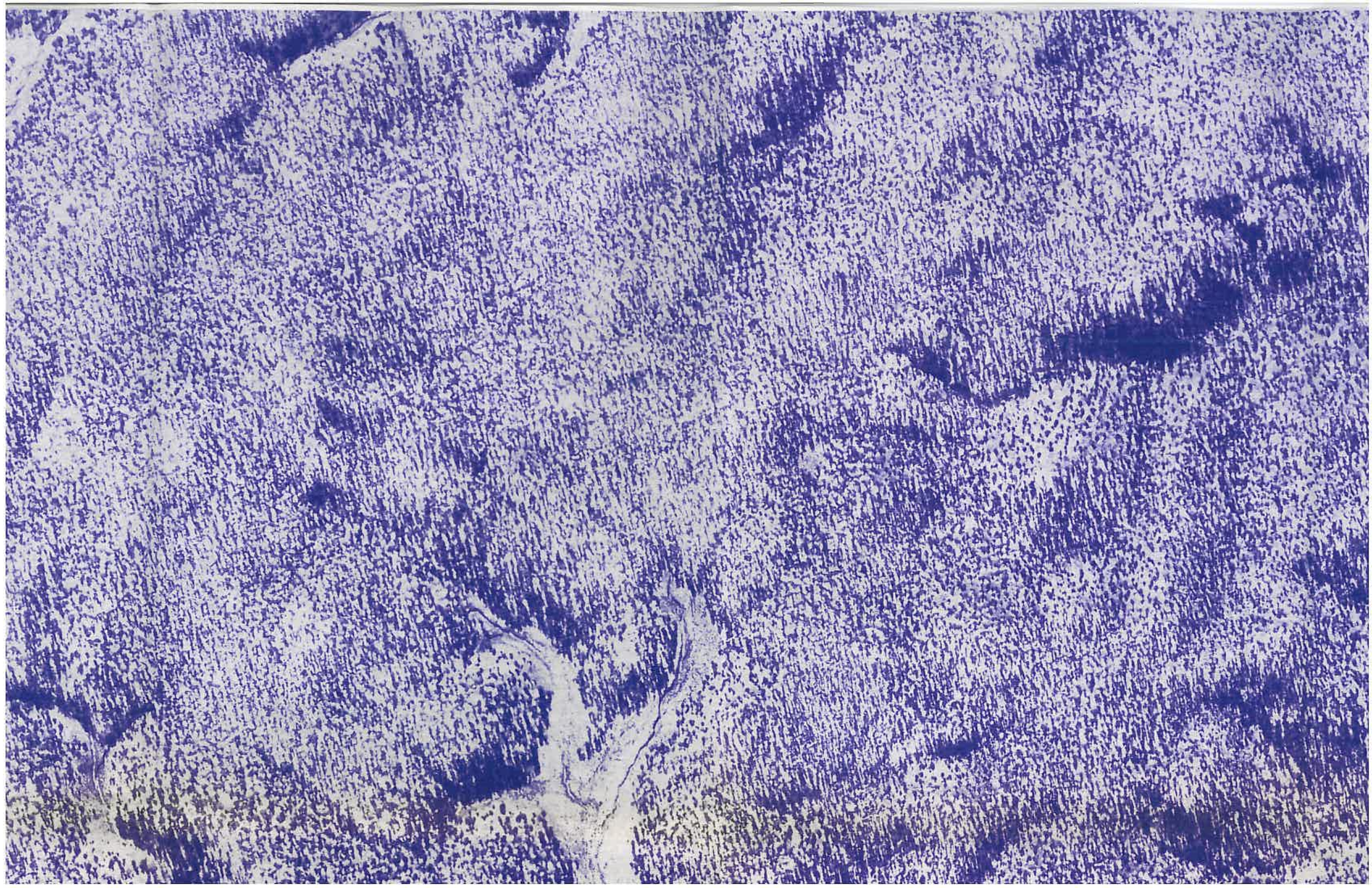


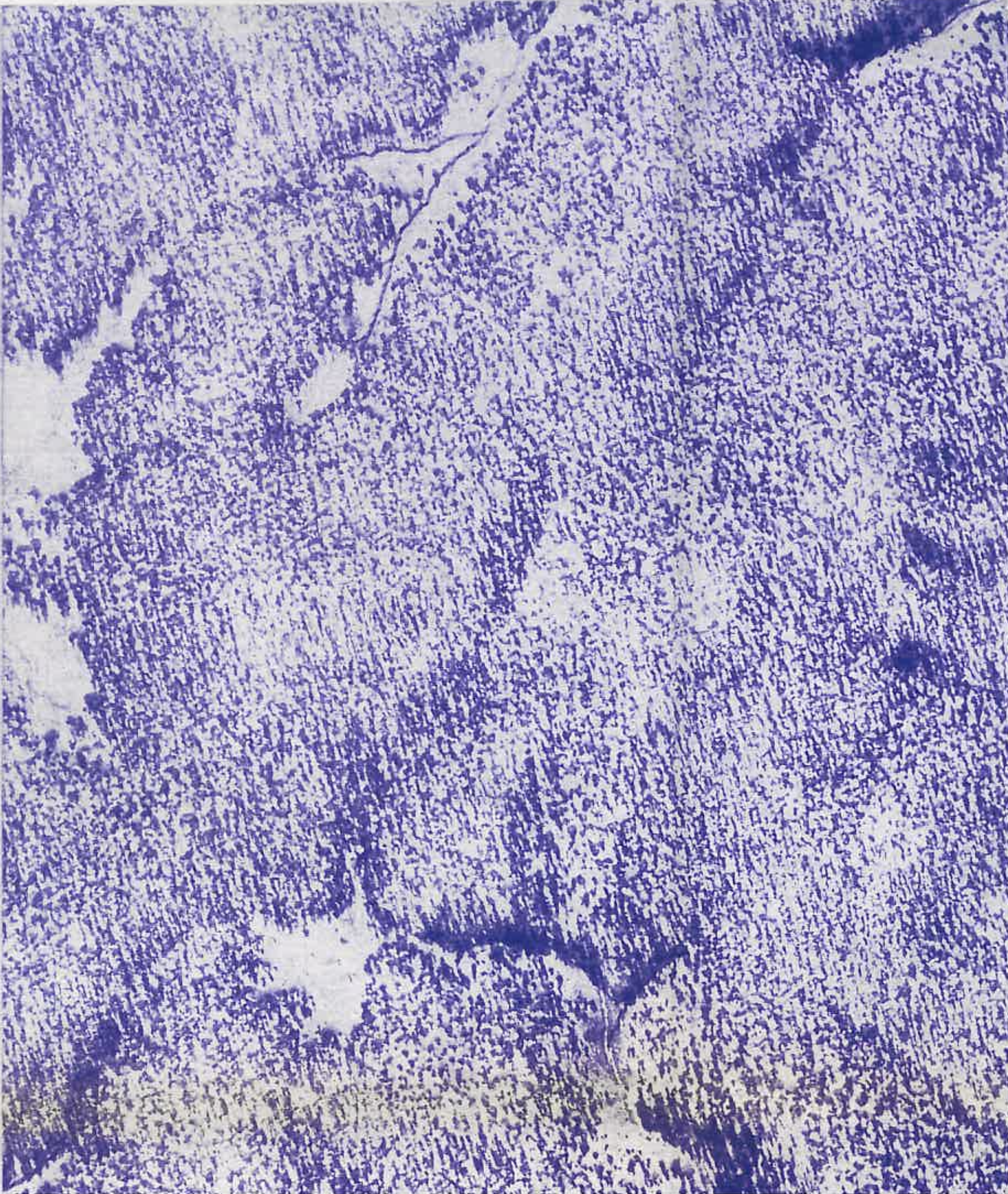






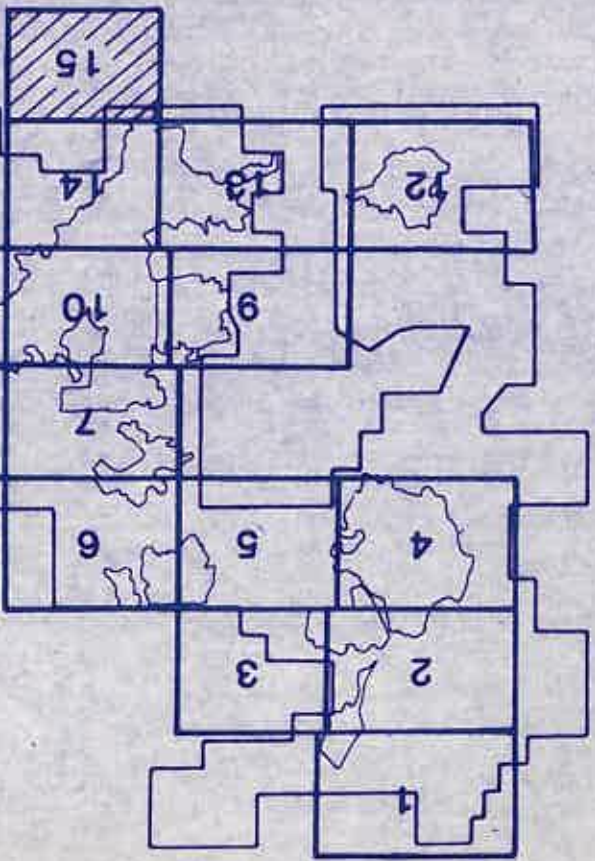






--- Disturbance boundary
 --- Survey area boundary
 Crop line
 Moist/c

Soil sam
 Mapping
 Moist/c

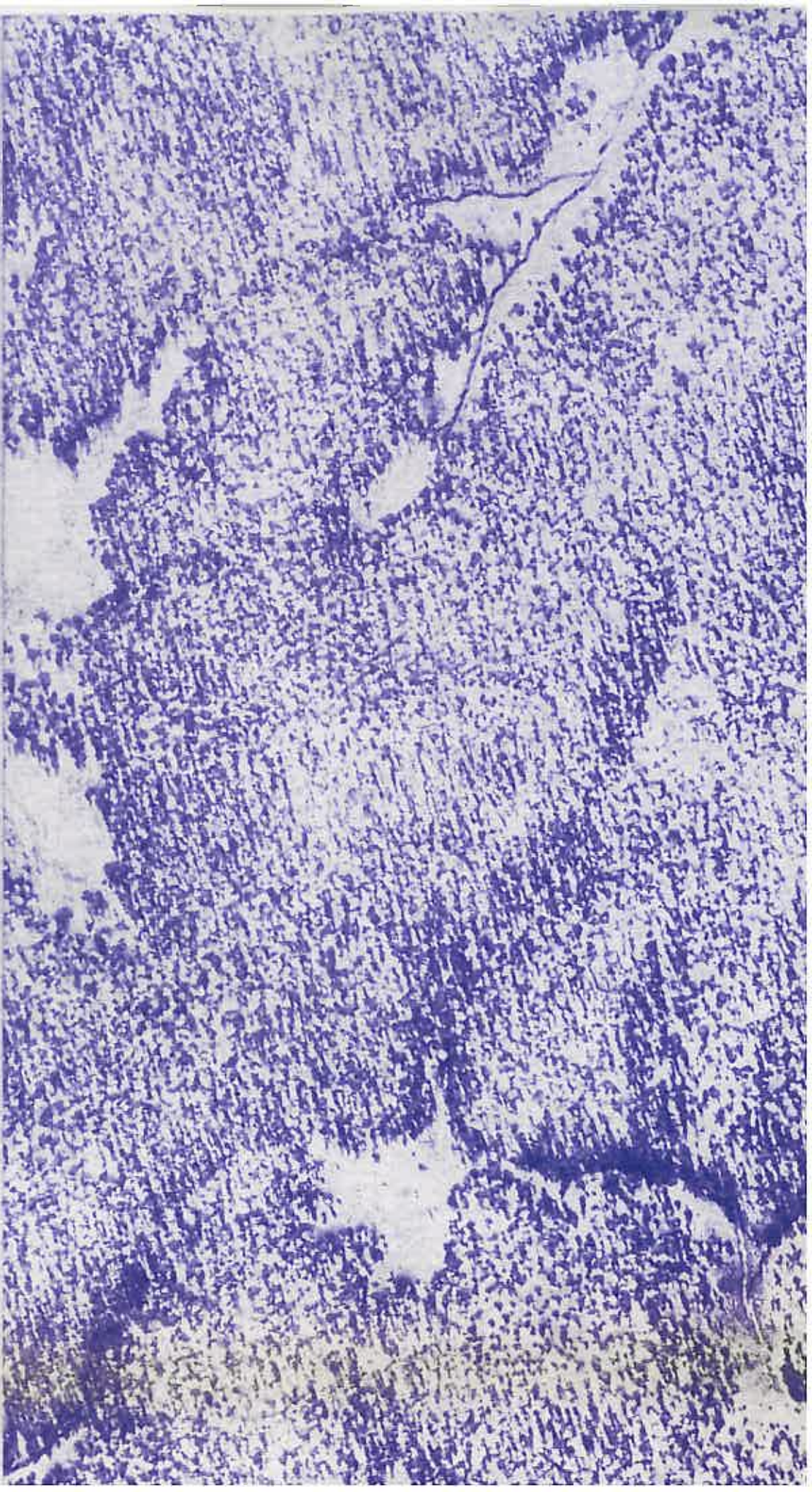


PEABODY COAL COMPANY
 BLACK MESA-KAYENTA MINE
 P.O. BOX 625
 KAYENTA, ARIZONA 86033

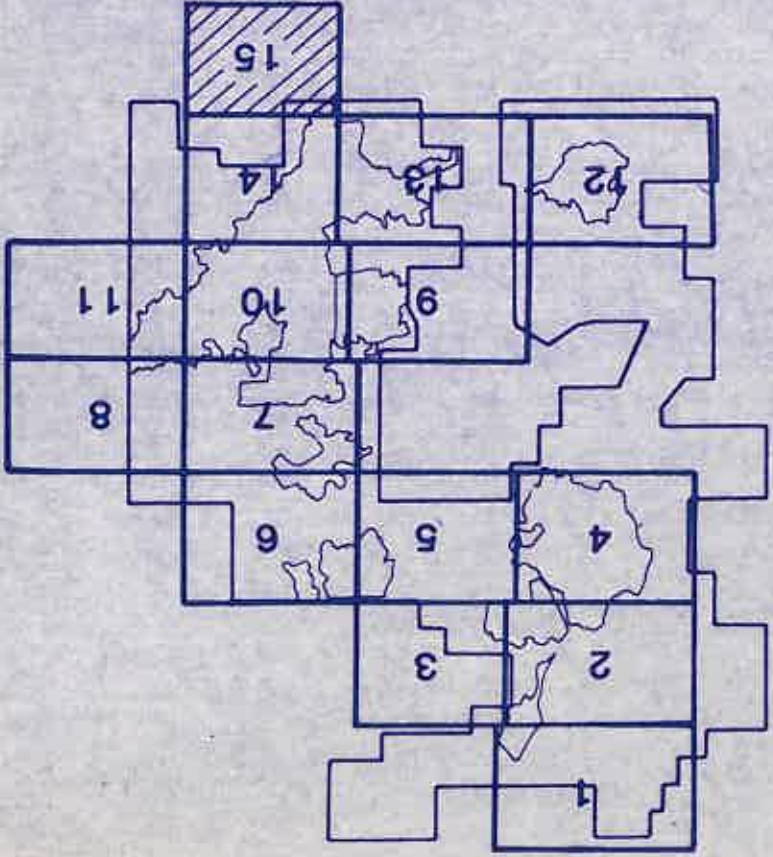
ORDER 1 AND 2 SOIL SURVEY

CL	REVISION DESCRIPTION	DATE	DRAWN BY	APP'D BY
1				
2				
3				
4				

Prepared by: **INTECHNICAL, INC.**



- Disturbance boundary
- Survey area boundary
- Crop line
- Soil sampling site
- ~~~~~ Mapping unit delineation
- ~~~~~ Moist/dry phase demarcation



PEABODY COAL COMPANY BLACK MESA-KAYENTA MINE P.O. BOX 625 KAYENTA, ARIZONA 86033				
ORG No.	85305A	SHEET No.	15 of 15	DRAWN BY
ORDER 1 AND 2 SOIL SURVEY RECEIVED BLM, PHOENIX DIST. OFF. PHOENIX, ARIZONA MAR 03 1985 1/8/85 11:34 AM				
DATE	Nov. 85	SCALE	1"=400'	C.I.
BY		APPRO'D		DATE
BY		APPRO'D		DATE
Prepared by: INTERMOUNTAIN SOIL, INC.				