Well. 29 Panuta July 12

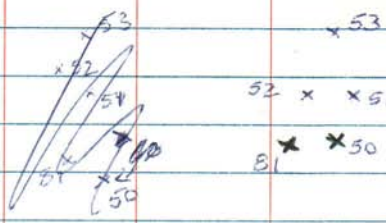
84027 - 84026 3/4" Fe-stain veins
(prob. in 84027) 260° 55° South

Late in system - fault - offset qtz veins.
trending E-W dip south

84024 - 1' wide qtz breccia zone - xltline
vertical - trending E-W.

83-85 - near 84022 PR. 10 feet below

Near 83-81 84050
84051
84052
84053



84079 - ~~near~~ beside 83-32

84077, 78, 76, 75, 74, near 83-53

DENISON MINES (U.S.) INC.

RECONNAISSANCE REPORT

DATE:

PROJECT:

PROPERTY: Big Mouth Canyon (Paiute)

MINERAL OWNERSHIP:
(address)
(telephone)

SURFACE OWNERSHIP:
(address)
(telephone)

COMMODITIES:
TOWNSHIP: 24N RANGE: 21E SECTIONS:
MINING DISTRICT: unknown
COUNTY: Washoe
STATE: NV
GEOLOGIST: SIEBOLD
FIELD EXAMINATION: yes(X) no( )
USGS MAP:

CLAIMS:

LEASES:

LOCATION AND ACCESS: east flank of Virginia Range, south central portion of range. Big Mouth Canyon · NW slope of western canyon.

GEOLOGY: Hartford Hill Rhyolite - working down the volcanic section:

1) at the very top: rhyolite volcanics - dark ~~ob~~ color, glassy with large, sub-rounded and angular pumice clasts with no specific orientation.

2) near top: pink rhyolite, very glassy, mixture of medium sized sub-rounded pumice fragments and flattened, smaller fragments of pumice in preferred orientation - give the rock a "grain".

3) rhyolite with darker, weathered surface. Still light pinkish, glassy with small flattened, aligned pumice fragments.

4) Zone of alteration: devitrification of glass, chloritization of pumiceous material, possible argillisation of feldspars. Zone is limited and not necessarily conformable to a stratigraphic sequence; i.e. it may cut contacts. Appears as a lingoid "pod". Possible fracture control?

5) Zone of purplish rhyolite showing poorly developed platy texture in outcrop. Minor pumice fragments, flattened and aligned. Some rounded pumice fragments, so specific orientation. Abundant, large angular elongate lithic fragments, possibly of sedimentary material

6) Zone of altered rhyolite - Fe stained, light colored, glassy on fresh surface, with argillic alteration of feldspars. In some places ~~to~~ the total rock is totally argillized, including the matrix. Advanced argillisation of pumice fragments. No silicification evident.

7) underlying the above unit is a gray/green massive to platy outcrop of pumice and feldspar rich volcanics. Phenocrysts and pumice clasts are altered somewhat to chlorite. Pumice clasts are both ~~for~~ rounded and flattened.

8) light-colored, pinkish rhyolite. Glassy with large, flattened (very thin) parallel aligned pumice fragments.

(down section)

All units so far described conform to the description of Hartford Hill Rhyolite - No Pyramid sequence observed during this transit.

~~PAST PRODUCTION AND RESERVES~~:

DEVELOPMENT HISTORY:

PROPOSED TERMS:

CONCLUSIONS AND RECOMMENDATIONS:

Recon. Report

Assay No.	Type	Width				

Assay No.	Type	Width				

DENISON MINES (U.S.) INC.

RECONNAISSANCE REPORT

DATE:

PROJECT:

PROPERTY: Big Math Canyon

MINERAL OWNERSHIP:
(address)
(telephone)

SURFACE OWNERSHIP:
(address)
(telephone)

COMMODITIES:
TOWNSHIP: 24N RANGE: 21E SECTIONS:
MINING DISTRICT: Big Math - Virginia Mtns.
COUNTY: Washoe
STATE: NV
GEOLOGIST: SILEBOLD
FIELD EXAMINATION: yes (X) no ( )
USGS MAP:

CLAIMS:

LEASES:

LOCATION AND ACCESS: east slope of south central portion of Virginia Mtns., west of Pyramid Lake. RT 33 N from Sparks, RT 34 North from Wadsworth. About 15 miles west of Nixon, NV.

GEOLOGY: north slope near head of canyon; highly silicified and altered volcanics; Fe-stained, ocherous. Very hard. many adits throughout length of canyon. Possible formations: Chloropagus, Hartford Hill Rhyolite. Minor argillic alteration. Most adits have sizeable dumps. overgrown with sage.

Adit on SE slope, near drainage bottom: adit sunk into lithic tuff unit. Cuts through small calcite + clay stringers, about 1" thick or less, & running parallel and perpendicular to adit trend.

in Secret Canyon, to east: large outcrop to east of drainage bottom: purplish glassy silicic flow with large phenos (not very abundant) of feldspar altering to clay. Immediately to south, part of the same outcrop, is a smaller mass of quartz rich crystal tuff. Possibly the silicic flow overlies the tuff unit. On the west side of the drainage bottom are reddish silicic volcanics - glassy, minor amt. of phenos with alteration halos around the phenos. Unit as a whole dips to NW with a NE-SW strike. Chloritic alteration locally. 3, possibly four varieties of silicic volcanics.

IN Big Math Canyon: ribs of rhyolite volcanics - glassy, minor argillization, locally silicified. Rib trends NZOW. Reddish, Fe-stained, partially silicified rhyolite. Some float exhibits quartz veining.

PAST PRODUCTION AND RESERVES:

geologic units encountered - Hartford Hill Rhyolite, and possibly the Chloropagus.

DEVELOPMENT HISTORY:

PROPOSED TERMS:

CONCLUSIONS AND RECOMMENDATIONS:

Recon. Report

Assay No.	Type	Width					Assay No.	Type	Width				

8-15 Big Mouth mapping

saw a rig (geology rig?) turn off the road & head down Coal on Big Mouth Canyon Rd.

QAL all along road - most float overlies vesicular basalt

in Creek bed just outside res. - light colored crystal rich tuff - weak sequished pumice fragments: 1/2 cm layered cavities, lithic fragments up to 1", pumice up to 4" long orientation is steeply dipping to the N

1. hill just east of cabin basalt & red hillside

vesicular unit, dikes/sandstone running through

2. probable fault contact at pinkish gray, slightly argillized biotite, some float is propylitized, unit or differently altered

gully, west side is rhyolitic unit, pumice small phenocrysts lithic fragments can't distinguish if more than one

3. N 40-45 E 30-40 N attitude of rhyolite, light colored to dark w/ glass feldspar, glauconite common smashed pumice fragments

parting surfaces in platy gray, propylitized & argillized rhyolite sometimes often what appears to be

Project

1981

list of units

- vesicular basalt / andesite
- whitish cream silicic unit w/
- light cream unit w/ pumice fragments of other silicic flows
- light to gray rhyolitic unit with some lithic fragments, parts along this same as 3 but 4 is less crystal rich &
- grey green flow, lies beneath unit
- white ash/mud tuff unit with a grey tuff

quartz crystal tuff

boulder conglomerate

red / black

breccia fragments of banded glass fragments & crystal rich, lithic

~~pu~~ altered pumice fragments, + phenocrysts, & abundant parting planes; ~~pro~~ could be pumice is smaller

4,

few ~~quartz~~ crystals

4. small outcrop with quartz veining?
~~*~~ at st. 3

just west of st. 4 ~~*~~ unit 4 rhyolite
rhyolite 4 overlies #5 grey-green
between contact - there appears to be
rhyolite #4 becomes purplish higher
abundant + less flattened

ing to 5
trying to decide but there ~~is~~ are probably
a few to 20-50 to several hundred
one cooling unit

at unit 6
fine grained rhyolite, slightly argillic
been more of a muddy ash, no
= N 80 E, 40-50 N

does not appear to be same unit as

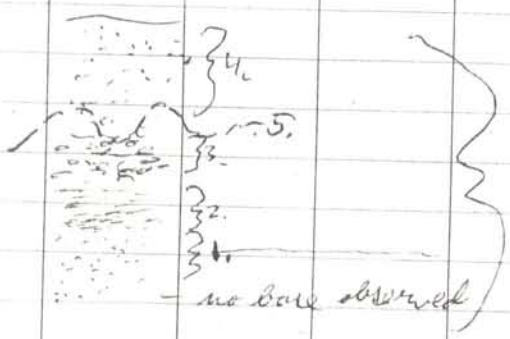
occurs again; parting plane ≈ N30E, 20N
flow
a minor sedf.tuf. unit.
in flow, pumice becomes not as

numerous flow sheets varying from
feet thick, may however be all

& slightly silicified appears to have
pumice fragments formed

- rough stratigraphy is:

(6)



- platy portion may be part of

(7) - andesite lava ~~seb~~ cover ~~eaclem~~ talus dumps show that the tuff extends

(8) - caved shaft/adit on silicified gray opalized brownish color, shaft on

(9) - quartz crystal tuff, very weathered,

(10) - quartz veining at top of peak 5960 mapped from top of hill. filling up fractures & spaces.

1. ash/pumiceous type texture w/ a few crystals. Could be partially silicified.
2. grades upward to platy textural
3. still platy but not as flat, more blocky
4. grades upward to more massive texture
5. altered to light colors below line purplish above line

some flow unit as at st 3

east above tributary, however solid beneath andesite

- tuff - where silicified, it more a small shear zone 155W, 80 SW

matrix?

at north edge of section 28
1&2 veining is more like SiO_2

Co.

(11) from 10 have walked continuously blocky, T or various commonly across variegated rhyolite, platy, of pumice, varying color

(12) rio of extreme argillization

8-16

(13) - left track at saddle rhyolite tuff is of red/brown Fe stained argillized tuff argillized, ~~or~~ knobby/pinnacley outcrop

- orange = areas of apparent argillic alteration
- red = areas of silicification, quartz veining or as seen from afar apparent silicification w/ associated Fe staining

- boulder conglomerate - cobbles to a matrix of ~~vole~~ sandy - volcaniclastic about 50° NW Boulders are rounded & set in debris. Probably waterlain Rips

- boulder congl. ~~appro~~ is overlain gray green ~~fg~~ granular flow unit with unit which appears to be which is overlain by platy rhyolite

- found calcite ~~x~~ls on chimp at didn't get in far enough. on tunnel, didn't find any in tunnel only veining on chimp, ~~not~~ some with pyrite

red sticks on floor of adit
dynamite, didn't mess with
further into adit than

probably future but looped lifes
them to find out + didn'd venture

Big Mouth Canyon
surveyors have been here but
get. posts cached in a couple places

no posts are in the ground

parked on hill just north of where road turns to go down steep gully
walked up slope to north

base unit is propylitized dark
+ biotite (phlogopite(?)) flakes
upward into grayer + less propy
are two units, fissility seems to
~~are~~ appear to be more abundant
lithic fragments may be of base

flow unit coarse ~~p~~ feldspar phenocrysts
undetermined whether unit grades
laterally altered flow or if ebers
increase upward. lithic fragments
in another gray fissile unit above
propylitized unit.

Rib of white argillized rhyolitic
Indeterminate as to whether
unit is a fingering flow which
appears to be the later case.

material lies between two gullies
gullies are faults or if white
possibly filled a paleogully. It

near top(?) of gray unit is a
fragments are of basal propylitized
unit with a few crystals & very

partially silicified breccia flow
flow - also near top is ash fall
small lithic fragments

continuing on up hill - above
top of colored zone - here

just above break in slope at
is an interesting patch of

5

silicification + some quartz veining

- discussed stratigraphy with Bill

- moved on to south wall of canyon on south fork where many diggings; argillized unit as the unit just below the north side of canyon argillized zone and there

- basaltic underside overlies south faults (parallel to the range front) that have stair stepped the east side downward. ~~These may be the~~ ~~to~~ Hydro fluids may have localized along these faults. If so, basaltic underside not seem reasonable, however even there first. If this does it is true, the basalt may act as impermeable cap to alteration fluids

8-30

- Big Morah Canyon - hiked up to surveyors + walked a whole - good spot for viewing the entire area

- andesite in massive, blocky, vesicular, frothy, red, black, no contacts seen but there are probably numerous flows 20-75' thick, however the float could conceivably come from one thick flow.

- lithic tuff overlain by thin feldspar phenos. This was seen

- sample 3222 is from calcite vein thick, taken along left wall.

- sample 3223 - chip sample varies from very hard to somewhat broken + friable, small 1/4-1/2"

- lithic tuff unit of argillized tuff with small on way down to the Bat Cave.

veining about 150' in Bat Cave, 1/2-2"

across 5 back of adit,

~~Hydrangale~~

found claims post from 1955?
on one small zone. Below a
calcite ~~be~~ veining (black calcite) with
argillically altered ~~stuff~~ looking
aceous rocks which are ~~qz~~
If there were more jasperoid

- We landed in a small saddle
drainage north of Coyote Canyon
has been excavated but does
enough to be of interest.

Paiute

flew back to Pyramid Lake
truck overheated & we had to

- walked hillside w/ ~~adit~~ pits on
of Big Thomas Creek (near where
south side of ~~Co~~ canyon is
but not to the same degree as
North side has abundant open space
stockwork with minor argilli

- the ~~unit~~ host unit appears
unit. Thickness appears to be

~~Ora~~ minor jasperoid & argillization
to the south ~~a~~ ~~corp~~ a massive
quartz & fragments of host rock
material is ash flow, ash, or tuff
creamy green in color
The area might be of interest.

on the north side of the first
a white silicified shear zone
not appear to be continuous

& drove to Big Thomas Canyon. The
sit awhile

north & south side of south fork
road/trail ends
argillized & north side is argillized
the south side
filled. quartz veining & quartz
ization.

to be a green tuffaceous flow
up to several hundred feet but

may be variable - dips &
entirely apparent & will require
There appears to be 3 units
the green tuffaceous flow
a fourth unit (rhyolite tuff)
is argillized,
jasperoid occurs in outcrop
belt varies from massive to

relation to other units is not
some mapping,
1, an underlying flow unit, 2,
& 3, a capping andesite/basalt flow
may also be present. This unit
is topographically higher area. It
localized,

28 623 Olinghouse / Paiute Project

Drove up Olinghouse Canyon
heavy equipment & no trespassing
drove north along range front
as on map. Probably road was
survey crew
found jasperoid at SE 1/4 of
a placer claim from 1974
~~not~~ on plot map but no

small pits & adits to the north
signs of silicification arg. bleaching
such activity appears to be confined
zones, some pits may be on

overall the entire range front
appears system which has
[illegible] rhyolite frames (Carlton
Hills) are representative of
large underground system or
[illegible] depth of weight, yet
suggest that it not.

Drove to Highbanks Range
Sagate Canyon are like adits (?)

area has several horses
signs. We went no further
dirt road. Road is not the same
dozed for transmission line

NW 1/4 sec. 23, T21N, R23E,
Tiger Claim is located near jasperoid
parts are around jasperoid

along range front show
bleaching and minor signs of pyrite
to narrow preferred beds or
sheared rock

seems to have a permanent but
mildly argillized core (mostly
tuff rhyolite). Whether these
the surface manifestation of a
not is not known. The pervasive
the [illegible] & [illegible] [illegible]

Most adits near the road are
not [illegible] [illegible]

- 6-24

- flew up Big Mouth Canyon & adits in north fork of Canyon & argillization occur locally frequently enough that this sampled 3124, 3126, 3127

- numerous pits & a few shafts - area looks interesting, silicification but dis close enough together & might be a good area,

helicopter time

6-20 81	1.9	622.25
6-21	1.0	327.50
6-24	1.7	556.95
		$1506.30

at $327.50/hour

- flew down Secret Canyon - also made a quick stop at side of the canyon. ~~F~~ We looked copter hovered ~~F~~ sample # 3128

several adits & shafts in this area a large adit (two drifts) on the south & sampled for 2-3 minutes while the

Stinghouse

- We also landed on a redish ~~[illegible]~~ Secret Canyon tributaries ~~and~~ weather reddish brown interest

- flew up Stho' Horse Canyon horse canyon from the air is

- Overall ~~the~~ areas in Big Mound staking & follow up looking a general system which locally apparent

- We flew to Winston & Ba-

knoll between the confluence of the . Rocks are very slightly argillized, and does not appear to be of

ches into Jones Cr. ~~back~~ land barren of anything of interest,

~~Canyon~~ & Secret Canyons deserve around. There seems to be pervades the area but is only

[illegible]

Pavite
Geology.

RECEIVED
AUG 10 1983
DENISON MINES (USA) INC.
DENVER OFFICE

Aug 6, 1983

John

Enclosed is my expense account and an invoice for the 18 days that I spent in Nevada working on the Piute claims.

I am returning the expense advance that was sent to me. It arrived late and I never cashed the check.

The week Aug 8-12 will be spent working on maps. Here is a list of maps that will be mailed to your office on either Friday or Saturday.

Piute Claim geologic map 1" = 500'
Piute claim sample location map 1" = 500'
Piute claim alteration map 1" = 500'

Additionally there are three 1" = 100' detailed geologic - sample location maps on 8½ x 11" paper. These maps cover some of the more highly altered - mineralized (?) areas on the property.

If you have any questions please call me. My telephone number is (509) 326-2604.

Sincerely
Dennis Forsly

RECEIVED
AUG 29 1983
DENISON MINES (U.S.) INC.
DENVER OFFICE

John

Enclosed is the Paiute report. A map tube with the plates for the report was mailed at the same time as this folder. Some of the maps for the report are already in the Denver office - namely the geologic map, structure alteration overlay, sample location overlay and plates A, B, C (100 scale mapping).

Thank you for the work. I hope you are satisfied with the results.

Gerald

CURVE FORMULAS

$T = R \tan \frac{1}{2} I$

$T = \frac{50 \tan \frac{1}{2} I}{\text{Sin. } \frac{1}{2} D}$

$\text{Sin. } \frac{1}{2} D = \frac{50}{R}$

$\text{Sin. } \frac{1}{2} D = \frac{50 \tan \frac{1}{2} I}{T}$

$R = T \cot. \frac{1}{2} I$

$R = \frac{50}{\text{Sin. } \frac{1}{2} D}$

$E = R \text{ ex. sec } \frac{1}{2} I$

$E = T \tan \frac{1}{4} I$

$\text{Chord def.} = \frac{\text{chord}^2}{R}$

$\text{No. chords} = \frac{I}{D}$

$\text{Tan. def.} = \frac{1}{2} \text{ chord def.}$

The square of any distance, divided by twice the radius, will equal the distance from tangent to curve, very nearly.

To find angle for a given distance and deflection.

Rule 1. Multiply the given distance by .01745 (def. for 1° for 1 ft.) and divide given deflection by the product.

Rule 2. Multiply given deflection by 57.3, and divide the product by the given distance.

To find deflection for a given angle and distance. Multiply the angle by .01745, and the product by the distance.

GENERAL DATA

Right Angle Triangles. Square the altitude, divide by twice the base. Add quotient to base for hypotenuse.

Given Base 100, Alt. $10.10^2 \div 200 = .5$. $100 + .5 = 100.5$ hyp.

Given Hyp. 100, Alt. $25.25^2 \div 200 = 3.125$. $100 - 3.125 = 96.875$ = Base.

Error in first example, .002; in last, .045.

To find Tons of Rail in one mile of track: multiply weight per yard by 11, and divide by 7.

Leveling. The correction for curvature and refraction, in feet and decimals of feet is equal to $0.574 d^2$, where d is the distance in miles. The correction for curvature alone is closely, $\frac{2}{3} d^2$. The combined correction is negative.

Probable Error. If d_1, d_2, d_3, etc. are the discrepancies of various results from the mean, and if Σd^2 = the sum of the squares of these differences and n = the number of observations, then the probable error of the mean = $\pm 0.6745 \sqrt{\frac{\Sigma d^2}{n(n-1)}}$

MINUTES IN DECIMALS OF A DEGREE

1'	.0167	11'	.1833	21'	.3500	31'	.5167	41'	.6833	51'	.8500
2	.0333	12	.2000	22	.3667	32	.5333	42	.7000	52	.8667
3	.0500	13	.2167	23	.3833	33	.5500	43	.7167	53	.8833
4	.0667	14	.2333	24	.4000	34	.5667	44	.7333	54	.9000
5	.0833	15	.2500	25	.4167	35	.5833	45	.7500	55	.9167
6	.1000	16	.2667	26	.4333	36	.6000	46	.7667	56	.9333
7	.1167	17	.2833	27	.4500	37	.6167	47	.7833	57	.9500
8	.1333	18	.3000	28	.4667	38	.6333	48	.8000	58	.9667
9	.1500	19	.3167	29	.4833	39	.6500	49	.8167	59	.9833
10	.1667	20	.3333	30	.5000	40	.6667	50	.8333	60	1.0000

INCHES IN DECIMALS OF A FOOT

1-16	3-32	⅛	3-16	¼	5-16	⅜	½	⅝	¾	⅞
.0052	.0078	.0104	.0156	.0208	.0260	.0313	.0417	.0521	.0625	.0729

1	2	3	4	5	6	7	8	9	10	11
.0833	.1667	.2500	.3333	.4167	.5000	.5833	.6667	.7500	.8333	.9167

7/18 Spokane, Wash to Lakeview, Oregon

7/19 Lakeview, Oregon → Fernley, Nevada, Then out to Pyramid Lake to See the Piute claims met T. Cavanaugh in Late afternoon

7/20 8:00 – 1:30 Ted + I walked the claims then Lunch in Fernly, met Bill at 3:30 – Ted + Bill Left

7/21 6:00 – 5:30 " walked the Piute claim Block to get feeling of Units – Hard to Break down for mapping + Took 10 samples – what a rough day!

7/22 5:45 – 2:00 in field 3:00 – 5:00 MAPS –

7/22 Con't Mapping in Sec. 8
13 Samples

7/23 MAPPED & RECON SAMPLED IN
SECTION 17, 17 Samples
5:45 – 4:00

7/24 5:45 – 1:45 Recon MAPPING &
Sampling in Section 20, 10 Samples
1:45 – 4:30 Preparing base MAP
at motel

7/25 5:30 – 3:00 Mapping and Sampling
the silicified zone in the S-SE sec. 17

7/26 5:45 – 3:00 Continued mappin
and sampling in the S½ sec. 17

7/27 5:30 – 2:00 Finish Sampl
in the SW ¼ sec. 17

7/28 Finish mapping in
section 8 morning
to Sparks in afternoon
for surveying stakes and

7/28 take 100 samples to Barringer Lab

7/29 5:30 – 3:00 Mapping and Sampling the E-W mineralized-silicified zone in section 17

7/30 5:30 – 2:30 Mapping and Sampling the E-W mineralized zone in Section 17

7/31 5:30 – Sampling and mapping in the silicified zone in Section 17

8/1 Met John Bosetti from Denison-Denemil Lab in Reno – at my motel I took him to Breakfast then we went up into Section 17 to finish sampling and to carry out 16 sample left up there – 7:30 – 3:00

8/2 5:30 – 1:30 Finish mapping & Took 6 samples –

1:30 – 3:00 WORKed on MAPS

8/3 Took Ted for geologic
Tour of the property
Then to Airport

8/4 Fernley, Nevada → Boise, Idaho →
Spokane, WASH. By 4x4
3:00 AM - 8:00 PM

Gas and Oil Consumption

DATE	SPEEDOMETER READING	GALS.	COST		MILES per GAL.	OIL qts.	COST		TAX		SERVICE STATION
8/3	89942	19.5	26	-							Fernley
8/4	90081	11.4	15	30							Winnemucca, Nev.
8/4	90314	16.9	20	-							Homedale, Idaho
8/4	90538	17.4	20	70							Stanford, WASH
8/4	90733	16.5	19	49							Home - Spokane

Gas and Oil

DATE	SPEEDOMETER READING	GALS.	COST	MILES per GAL.
	86,500			
June 4	86,814	21.8	24 —	
June 7	86,978	13.6	15.00	
6/11	87,096	8	9.40	
6/17	87,273	Full Tune up		
7/1	87,363	25.6		
7/2	87,569	21.5		
7/3	87,710	11.8		
7/7	87,853	16.3		Salmon ok
7/7	88,005	17		
7/16	88214	20.5		
7/18	88234			
7/18	88441	17.4	21 —	
7/18	88571		9.6 gal 12.00	
7/19	88784	17.8	23 —	
7/20	89046	19.2	25 —	
7/23	89277	19.0	23	
7/23	89497	21.2	27.50	
7/27	oil change, lube			
7/31	89732	19.4		

Consumption

OIL qts.	COST	TAX	SERVICE STATION
Oil Change —			
			Terrell Sue

RECEIVED
JUN 13 1983
DENISON MINES (U.S.) INC.
DENVER OFFICE

June 9, 1983

John Antony
Denison Mines
1776 Lincoln St., #810
Denver, Colorado 80203

Dear John:

As per our telephone discussion on June 8, I propose to map and sample Denison's Paiute claim block to the specifications outlined in Ted Kavanagh's letter. The only exception being that the number of samples collected on the property will be in the 150-200 range, rather than 250-300 as specified by Ted Kavanagh.

My fee schedule is:

$225/day + expenses

A 1978 blazer will be provided at $20/day + $.17/mile

I can start work on July 18, and a rough draft of the geologic report on the Paiute claim block will be in your office by August 23 or 24.

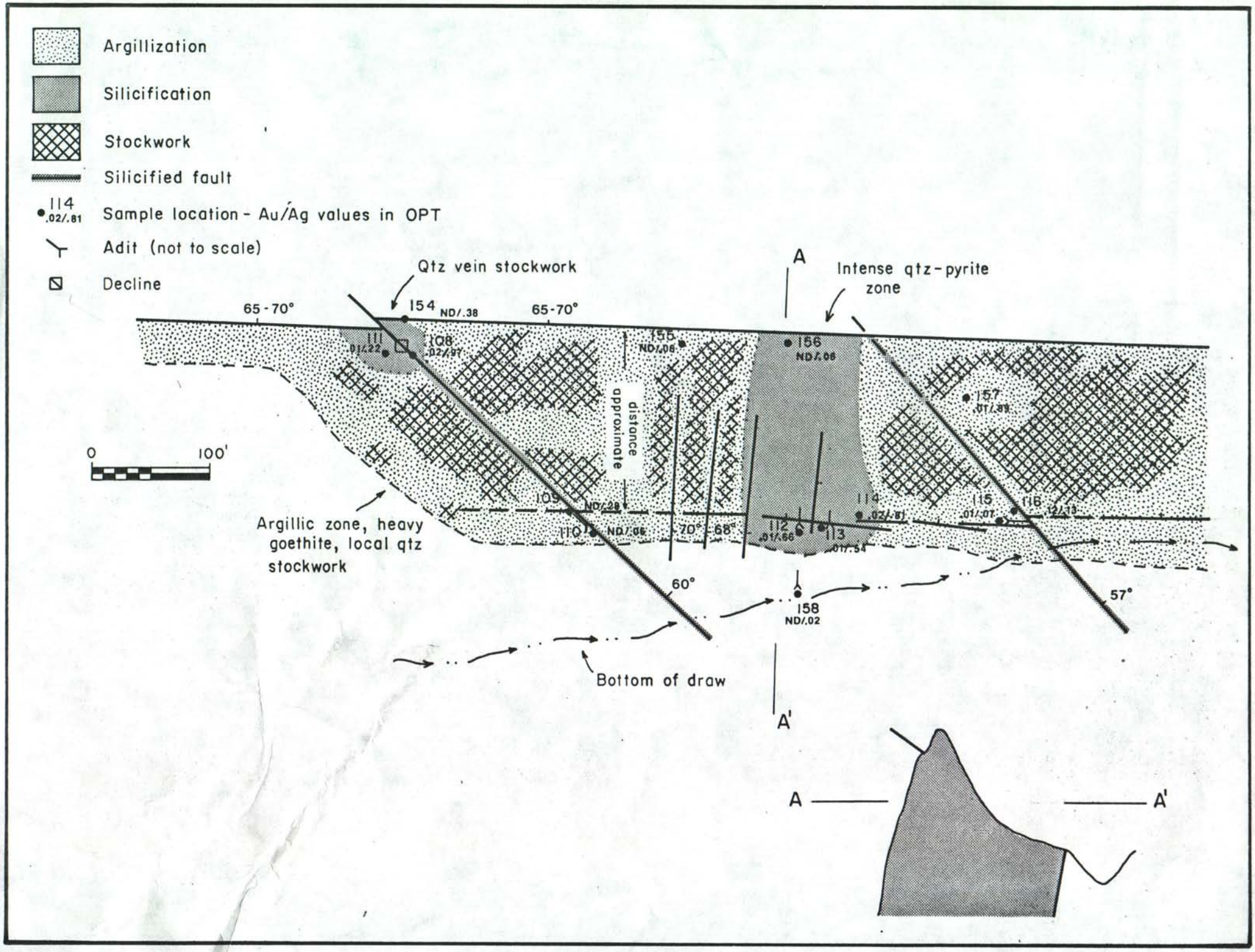
I would appreciate a $500 expenses advance before July 18. OK

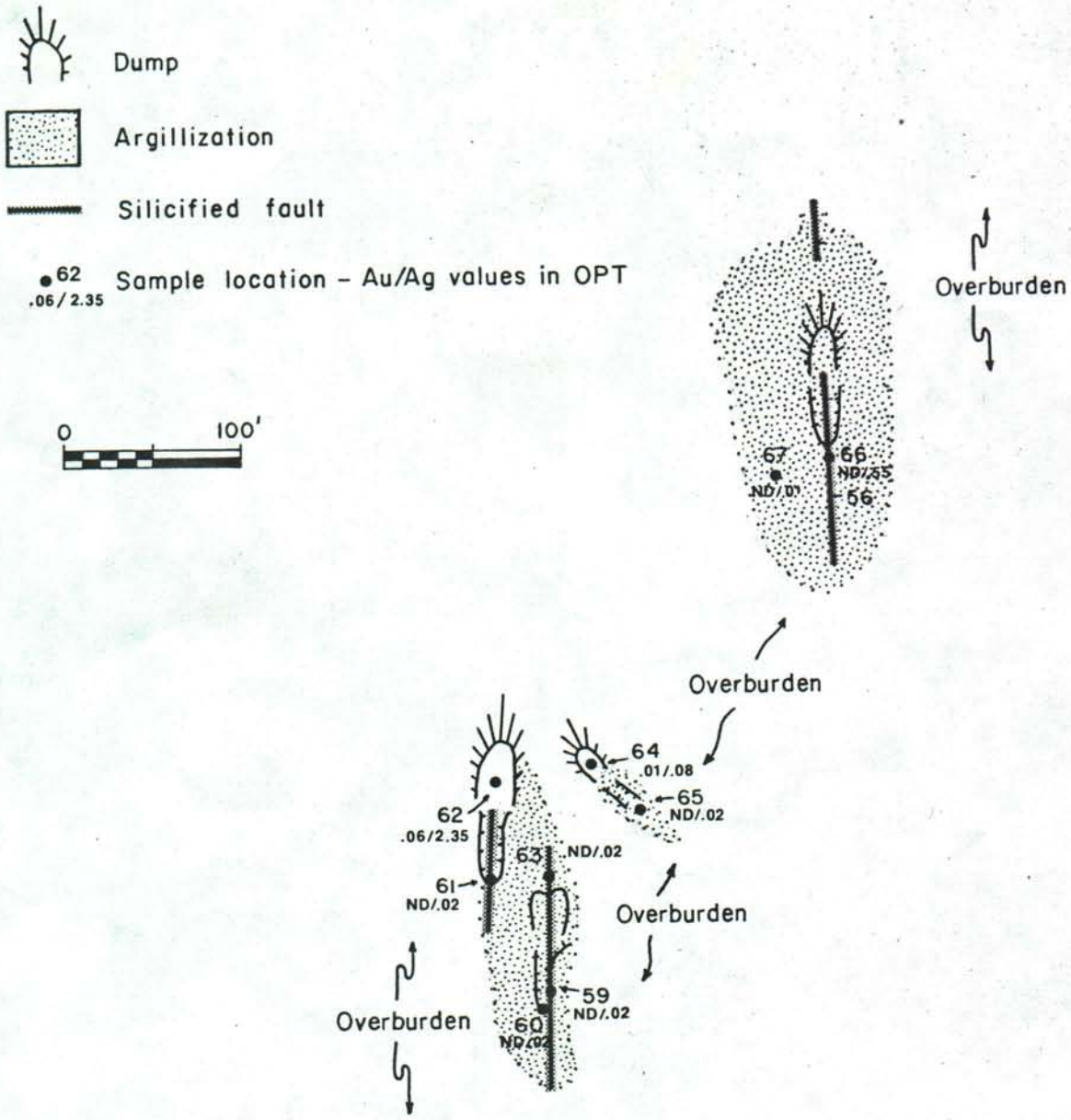
Sincerely,

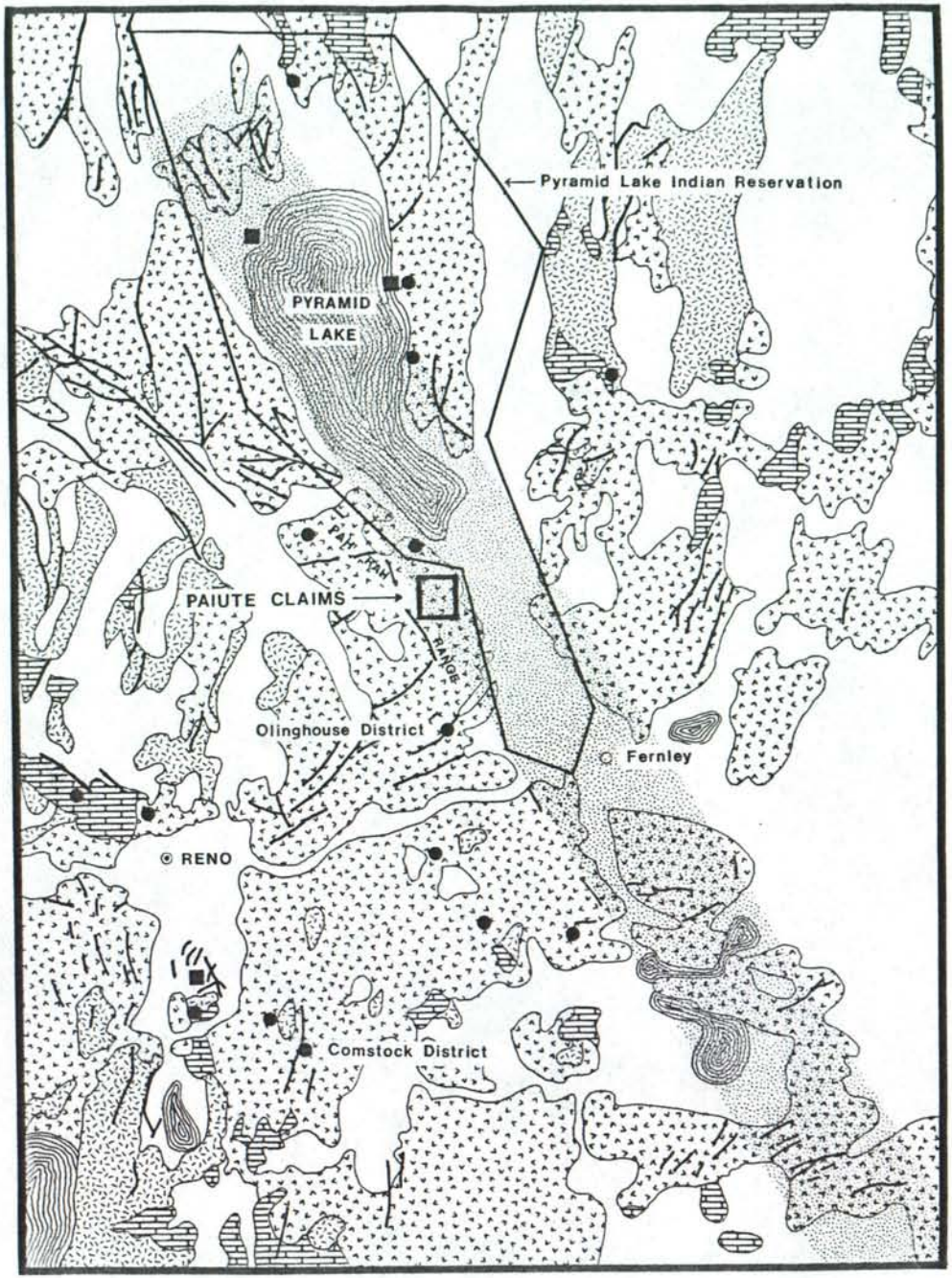
Dennis Forsberg

Dennis Forsberg

Accepted — Subj. to max. of 30 days!
JA


Argillization
Silicification
Stockwork
Silicified fault
114 .02/.81 Sample location - Au/Ag values in OPT
Adit (not to scale)
Decline
Qtz vein stockwork
Intense qtz-pyrite zone
A
A'
65-70°
65-70°
154 ND/.38
111 .01/.22
108 .02/.97
155 ND/.06
156 ND/.06
157 .01/.89
distance approximate
0
100'
109 ND/.28
110 ND/.06
70°
68°
112 .01/.66
113 .01/.54
114 .02/.81
115 .01/.07
116 .12/.13
Argillic zone, heavy goethite, local qtz stockwork
60°
57°
158 ND/.02
Bottom of draw


Dump
Argillization
Silicified fault
62
.06/2.35
Sample location - Au/Ag values in OPT
0
100'
Overburden
67
ND/.01
66
ND/.55
56
Overburden
64
.01/.08
65
ND/.02
62
.06/2.35
63
ND/.02
61
ND/.02
Overburden
59
ND/.02
Overburden
60
ND/.02

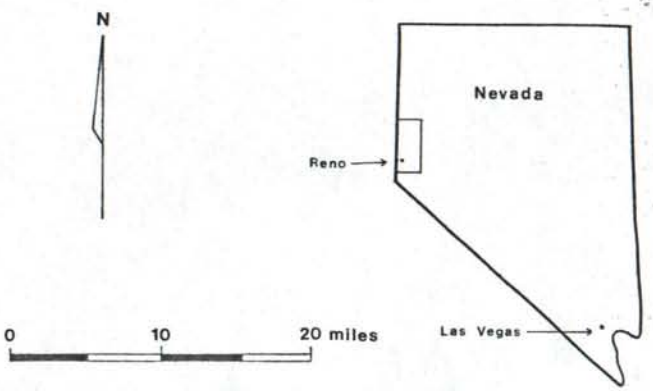


GEOGRAPHIC AND GEOLOGIC SETTING

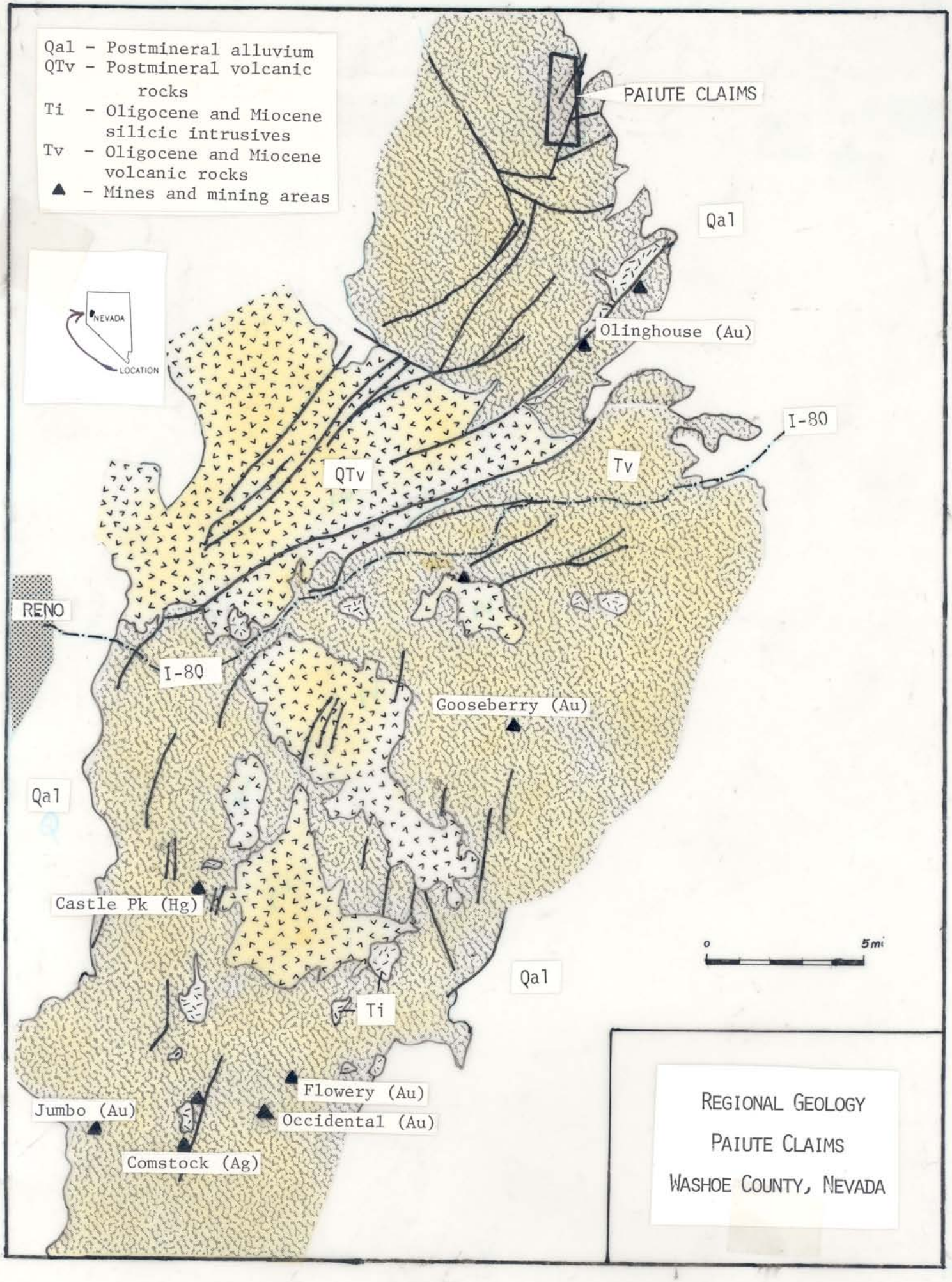
PAIUTE CLAIMS

LEGEND

- Districts
- Major active hydrothermal systems
- Volcanics
- Intrusives
- Sedimentary
- Alluvium
- Walker Lane



EJK


Qal - Postmineral alluvium
QTv - Postmineral volcanic rocks
Ti - Oligocene and Miocene silicic intrusives
Tv - Oligocene and Miocene volcanic rocks
▲ - Mines and mining areas
NEVADA
LOCATION
PAIUTE CLAIMS
Qal
Olinghouse (Au)
I-80
Tv
QTv
RENO
I-80
Gooseberry (Au)
Qal
Castle Pk (Hg)
0
5mi
Qal
Ti
Flowery (Au)
Jumbo (Au)
Occidental (Au)
Comstock (Ag)
REGIONAL GEOLOGY
PAIUTE CLAIMS
WASHOE COUNTY, NEVADA

EXPLANATION

Recent — Alluvium — 735 — Qal

Upper Miocene — Pyramid Formation

Basalt and andesite flows — 745½ — Tsu

Lower Miocene — Hartford Hill Rhyolite

upper member: Predominantly purple, welded lapilli tuff and agglomerate of rhyolite composition — 752 — Thu

middle member: Predominantly grey, welded crystal tuff of rhyolite composition — 738½ — Thm

lower member: Predominantly grey, moderately welded, lapilli tuff and lithic tuff of rhyolite composition — 741½ — Thl

strike and dip of bedding — 9

strike and dip of joints — 69

contact

contact located approximately

fault showing dip

fault located approximately

prospect pit

Adit

cross section line — A— —A'

Geologic Section

Pyramid Fm

Basalt

Hartford hill Rhyolite

Th_1 Pumiccous lapilli tuff, lithic lapilli tuff
Purple, welded

Th_2 Grey, crytal tuff, frequently Argilliced + hematite stained.

Th_3 Grey, greengrey, blue grey, monotonous sequence, moderately welded, lapilli tuff, frequently propylitically altered

Argillic alteration

Silicification

Plate A

Detailed
Sample Location
Alteration Map
1" = 100'
D Forsberg

Alteration
Argillic
Silicification
Sample location .108
Adit (not to scale)
Decline

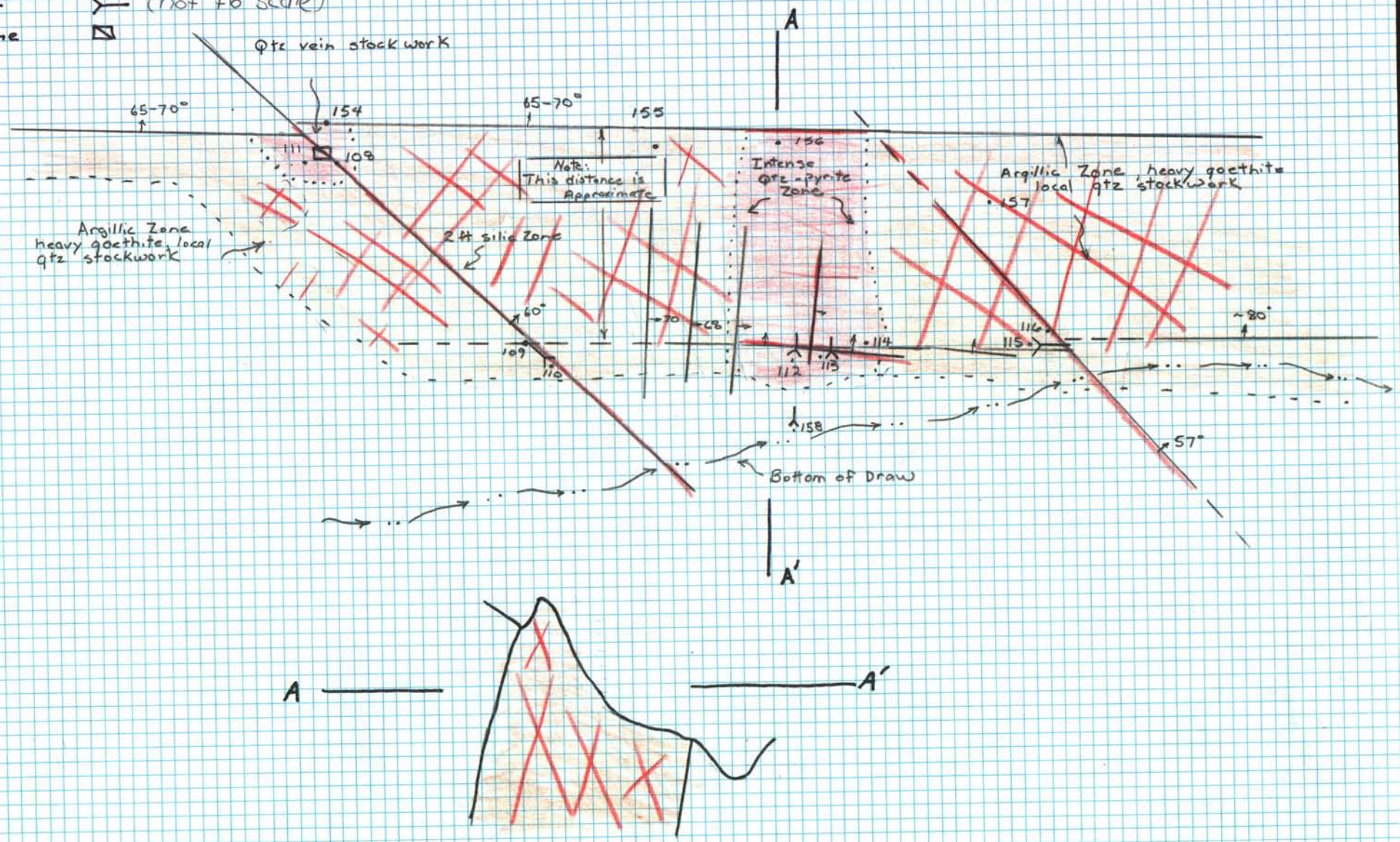


Plate B

Detailed
Sample Location
Alteration Map

1" = 100'

D. Forsberg

Alteration
Argillic
Silicification
Sample Location 59 •

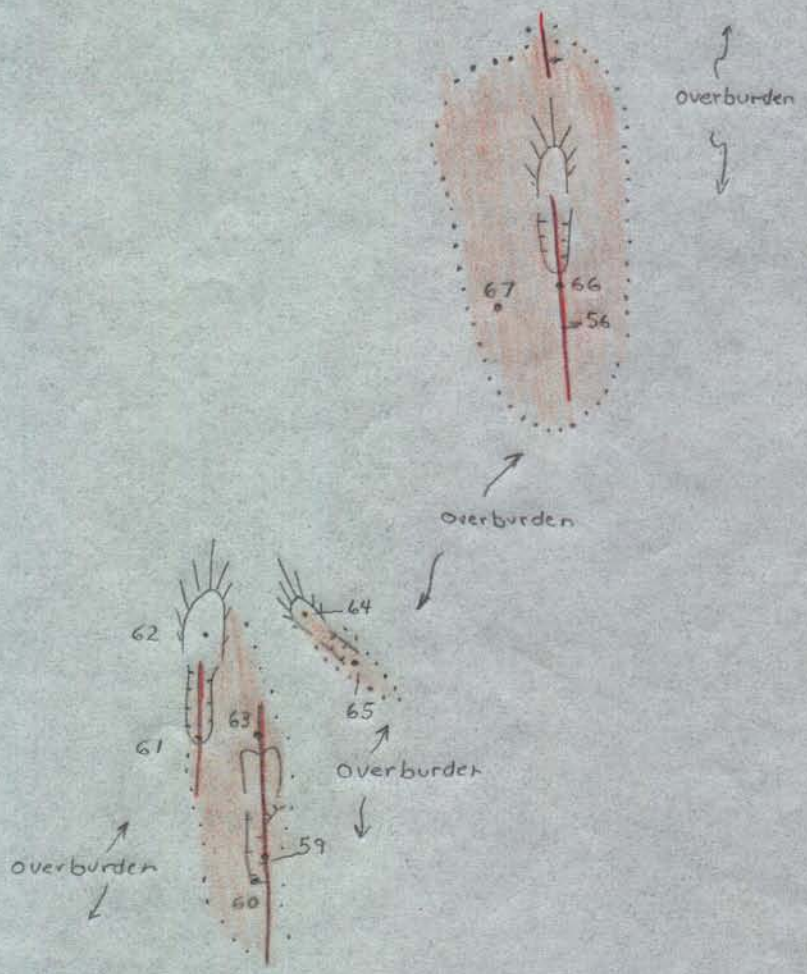
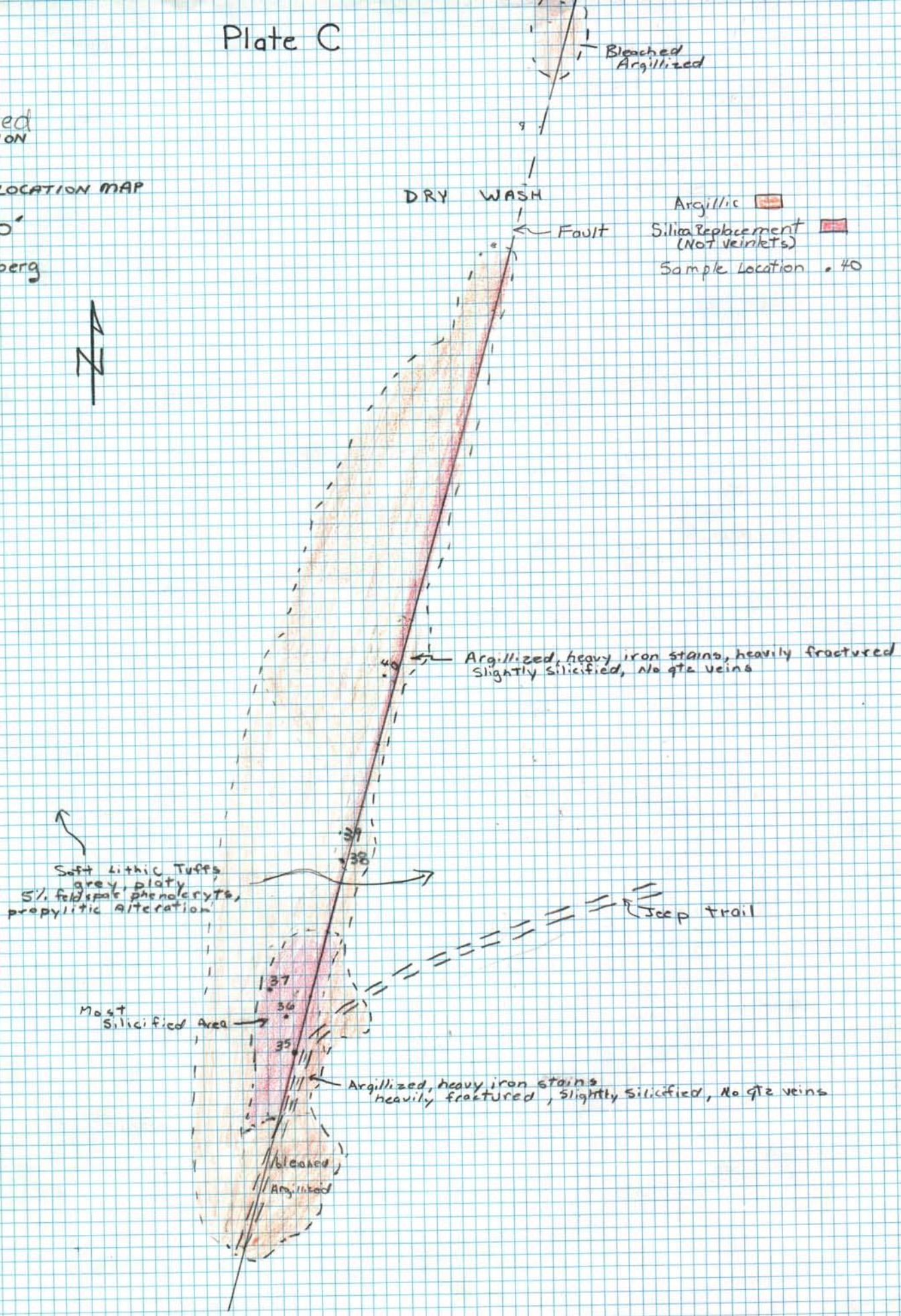


Plate C

Detailed
ALTERATION
&
SAMPLE LOCATION MAP

1" = 100'

D. Forsberg



basalt + andesite flows; red, brown, black; vessicular, massive; map unit includes talus slopes which blanket other units.

crystal tuff; local unit which overlies gray-platy - Hartford Hill rhyolite; probably should be included in Hartford Hill assemblage; very quarty rich.

Hartford Hill rhyolite; - rhyolite ash fall/flow tuff; contains varying amounts of pumice, lithic fragments, and crystals; coloration is dominantly gray to blue-gray, top zone is purple, zones of alteration and bleaching are white with localized Fe staining prominent; texture is platy to blocky-platy, locally the base or top may be massive; local columnar jointing; unit is probably composed of various flows with more than one flow per cooling unit; pervasive propylitic alteration and localized argillic alteration + silicification.

zones of argillic alteration and bleaching.

zones of probable argillic alteration, not field checked

zones of silicification or presence of quarty veining; commonly assoc-

iated with argillized zones but occurs in areas where argillization is not evident.

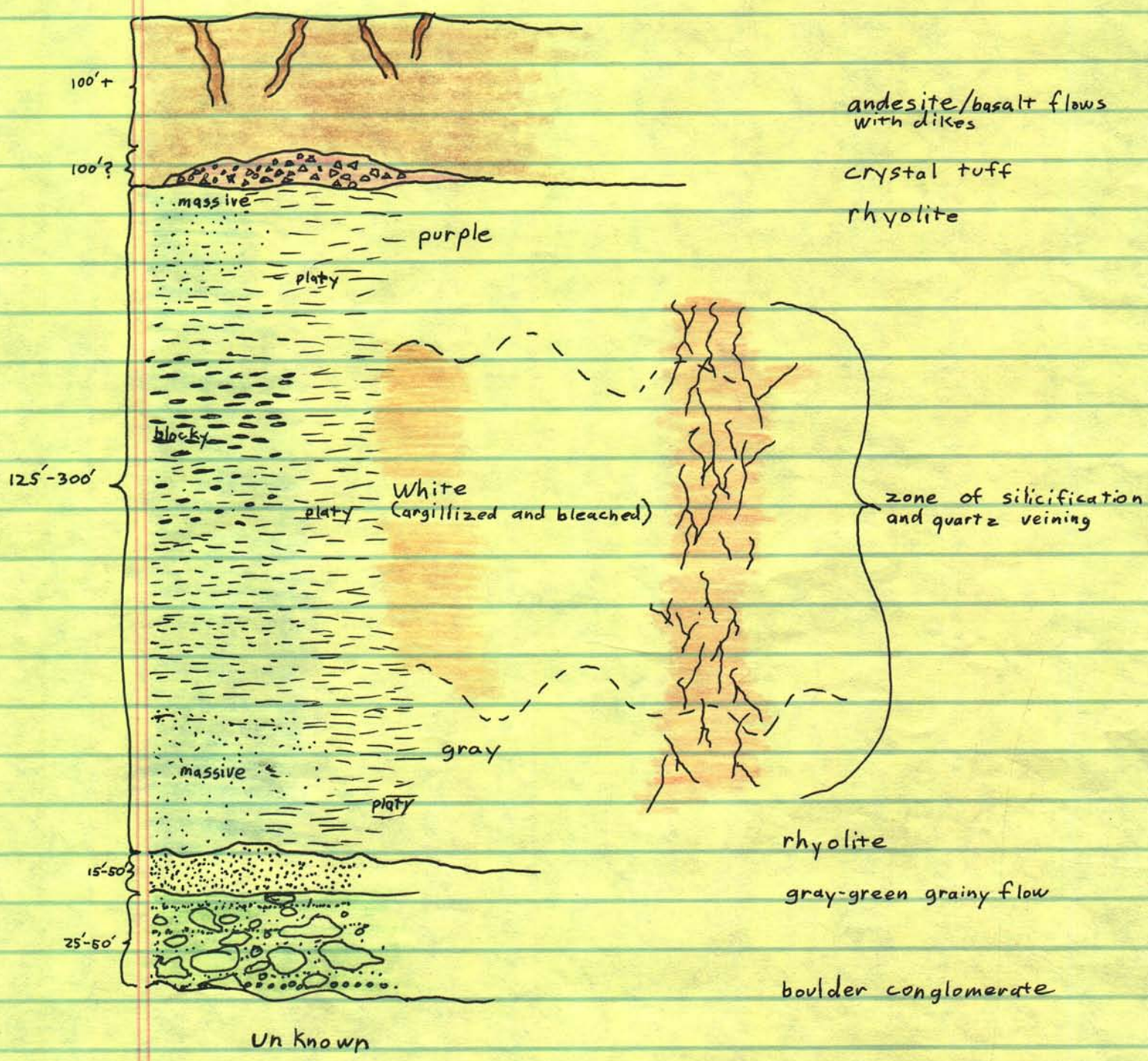
zones of probable argillization and silicification but not field checked.

boulder conglomerate - rounded (stream worn) cobbles, boulders, and pebbles are set in a matrix of sand-sized volcanic fragments.

BLM Land

Private

Patented claims


100'+
andesite/basalt flows with dikes
100'?
crystal tuff
massive
purple
rhyolite
platy
blocky
125'-300'
White (argillized and bleached)
platy
zone of silicification and quartz veining
gray
massive
platy
rhyolite
15'-50'
gray-green grainy flow
25'-50'
boulder conglomerate

Un Known

Structure: Numerous faults offset units of the Hartford Hill Formation. Amount and direction of offset can only be speculated due to lack of marker horizons and fault traces (e.g. slickensides). A certain amount of deformation has occurred since deposition of the rhyolite. Bonham claims mild warping and folding has occurred. Tilting of fault blocks seems to be an equally viable alternative for the observed deformation

The Hartford Hill rhyolite of this area ~~could~~ may be a package of repetitious flows commonly with more than one flow per cooling unit. It is also possible that the entire rhyolite unit is a single massive flow with compositional and compaction facies varying laterally and vertically. It will take much work to determine which is the case.

Alteration and Mineralization: Pervasive propylitic alteration characterizes the Hartford Hill assemblage. Pumice fragments, matrix material, and mafic minerals are largely altered to glauconite. Feldspar phenocrysts and matrix material are typically argillized in argillic zones, argillization overprints propylitization and occurs most extensively in the mid-portion of flows.

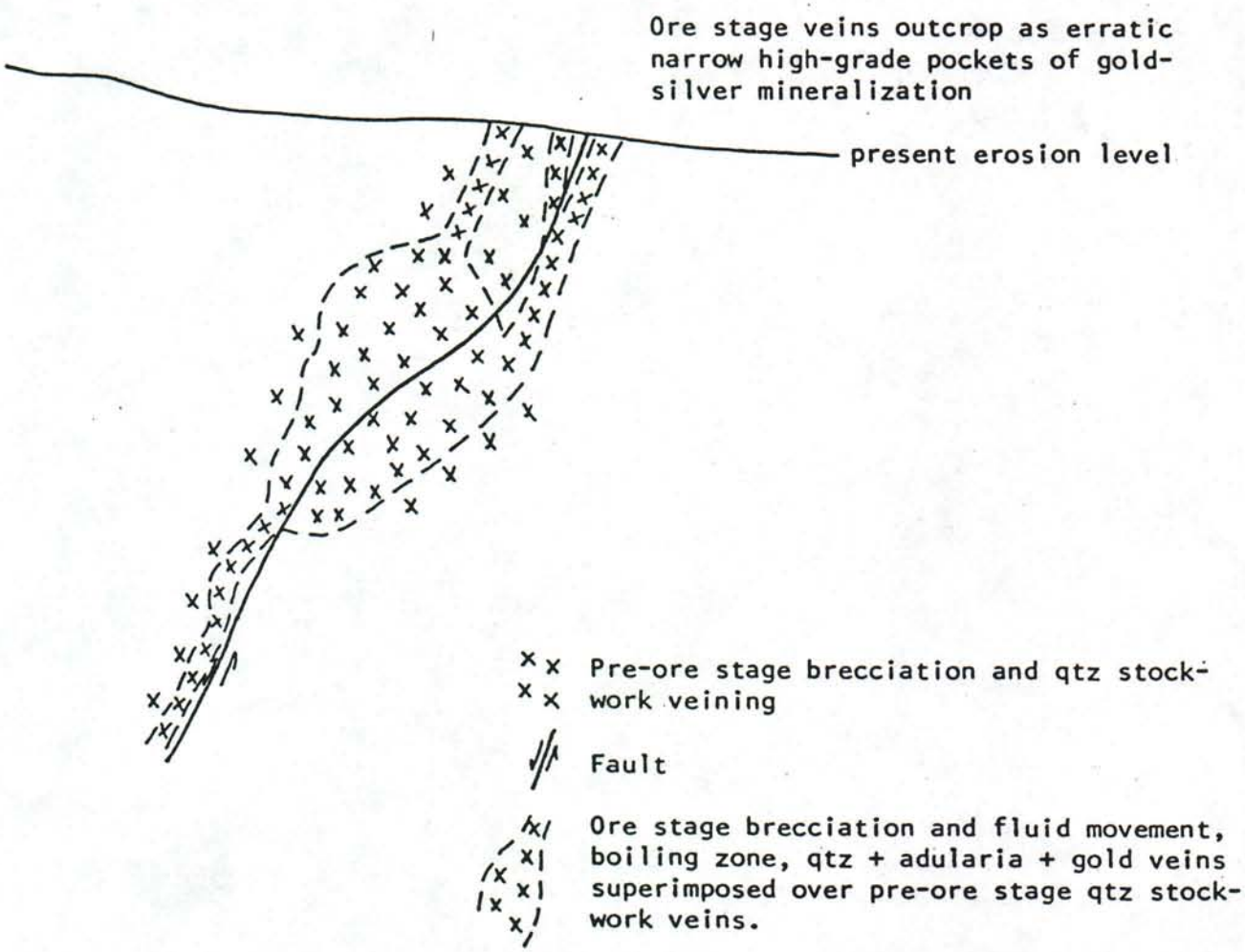
Silicification occurs in the form of quartz veining, open space filling, and silicification of wall rock around veining. Quartz veining is commonly related to argillized zones but also occurs above and below the argillized zone with no apparent relation to any alteration.

Au and Ag occur with the quartz and argillization, particularly along shear zones.

Recommendations:

- approximately 100 claims should be staked to cover the area of interest.
- Determine more exactly the relationship of argillization and silicification to structures and location within the Hartford Hill assemblage. This will require detail mapping and probably some geophysics to test hypotheses formed during mapping.
- drilling program should be developed to test known areas of interest and also find unknown buried areas of interest which are quite likely to occur.
- some road improvements should be made before the area is travelled on a daily basis.

CONCEPTUAL MODEL

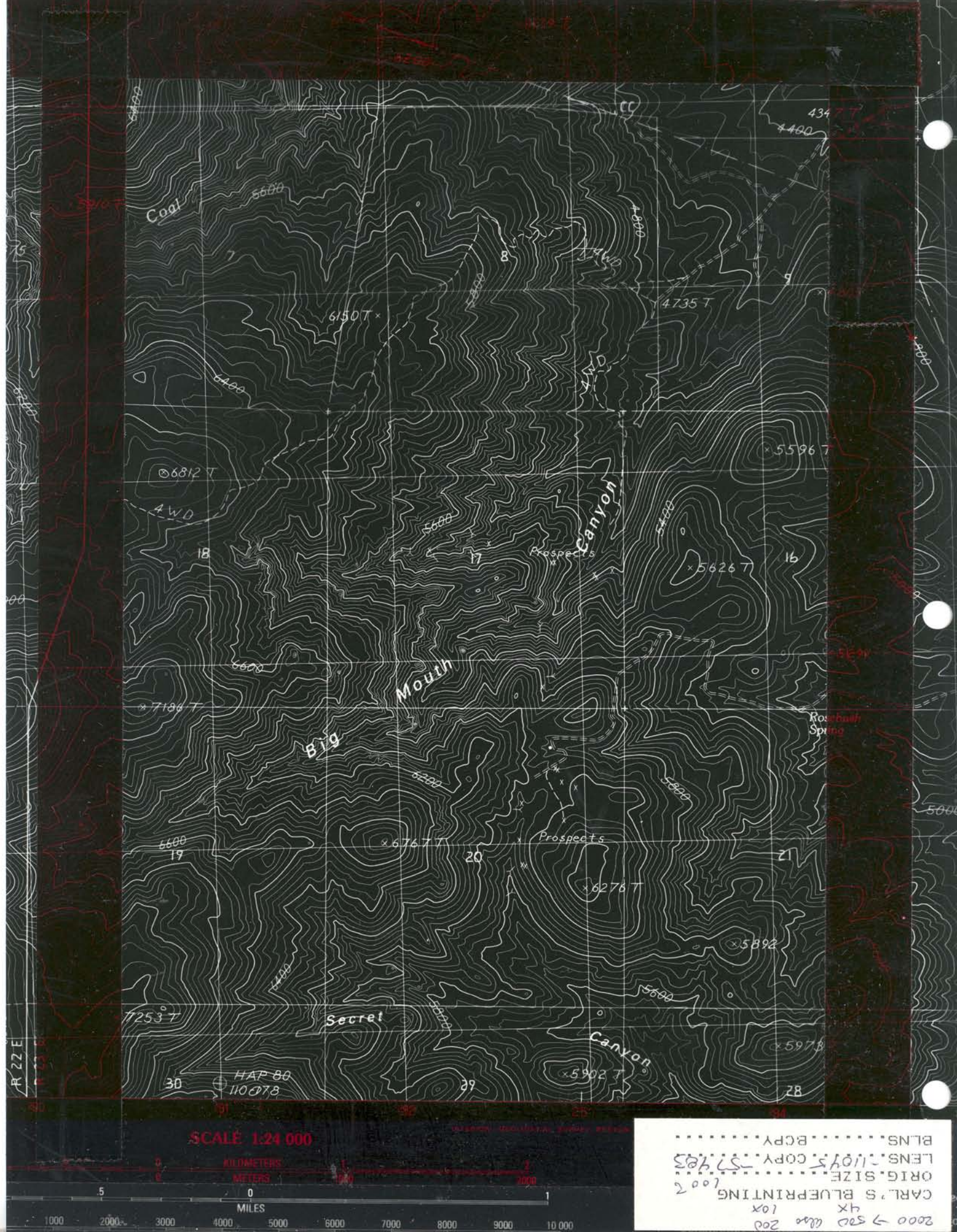


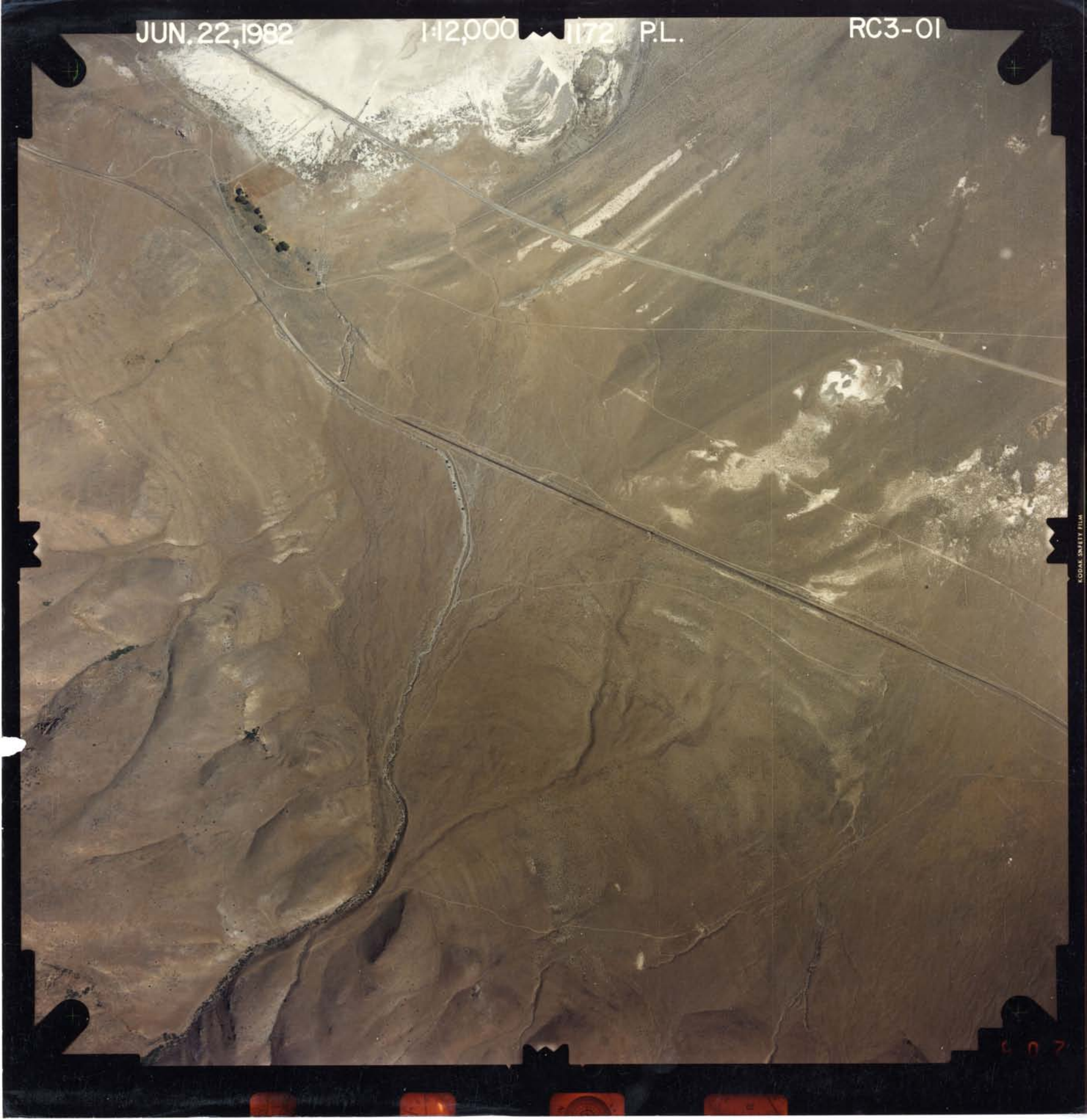
1) Local intrusive activity; heat source for geothermal convective system.

2) High-angle normal faulting (pre-ore); creates open fractures.

3) Pre-ore stage propylitic alteration. Qtz deposition in fractures effectively seals the plumbing system. Hydrothermal solutions trapped, unable to precipitate ore mineralization because lithostatic pressure greater than hydrostatic pressure. Solutions unable to boil.

4) Subsequent fault movement. Greatest concentration of stress at flexure in fault plane; creates good system of open fractures. Hydrostatic pressure exceeds lithostatic pressure. Hydrothermal fluids move upward, boil, and precipitate ore minerals. Greatest concentration of ore minerals in the areas of best plumbing. Ore shoots thus confined to the area of the greatest concentration of stress on the fault plane. Brecciation along straight portion of fault above ore shoots; poor development of open fractures. Leakage of thin, erratic ore stage qtz + adularia + gold veins, possibly sub-ore grade due to small size and erratic distribution. grades of these veins may reflect grade of mineralization at depth?


Coal
Big Mouth Canyon
Secret Canyon
Prospects
Prospects
6150 T
4735 T
6812 T
5596 T
5626 T
7186 T
6276 T
5892
7253 T
5973
5902 T
4WD
HAP 80
110 078
R 22 E
SCALE 1:24 000
KILOMETERS
METERS
MILES
CARL'S BLUEPRINTING
ORIG. SIZE
LENS
BLNS
BCPY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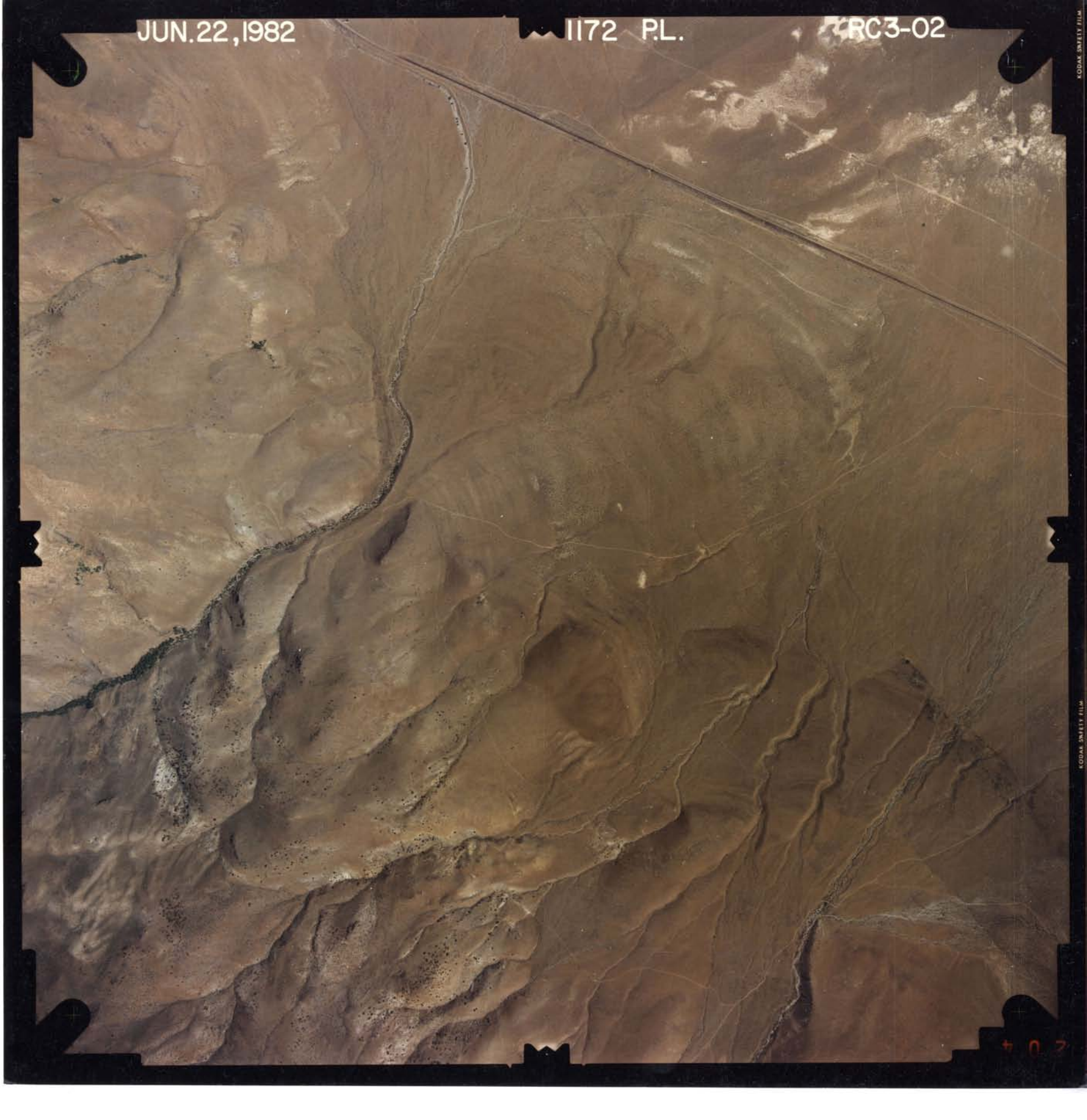
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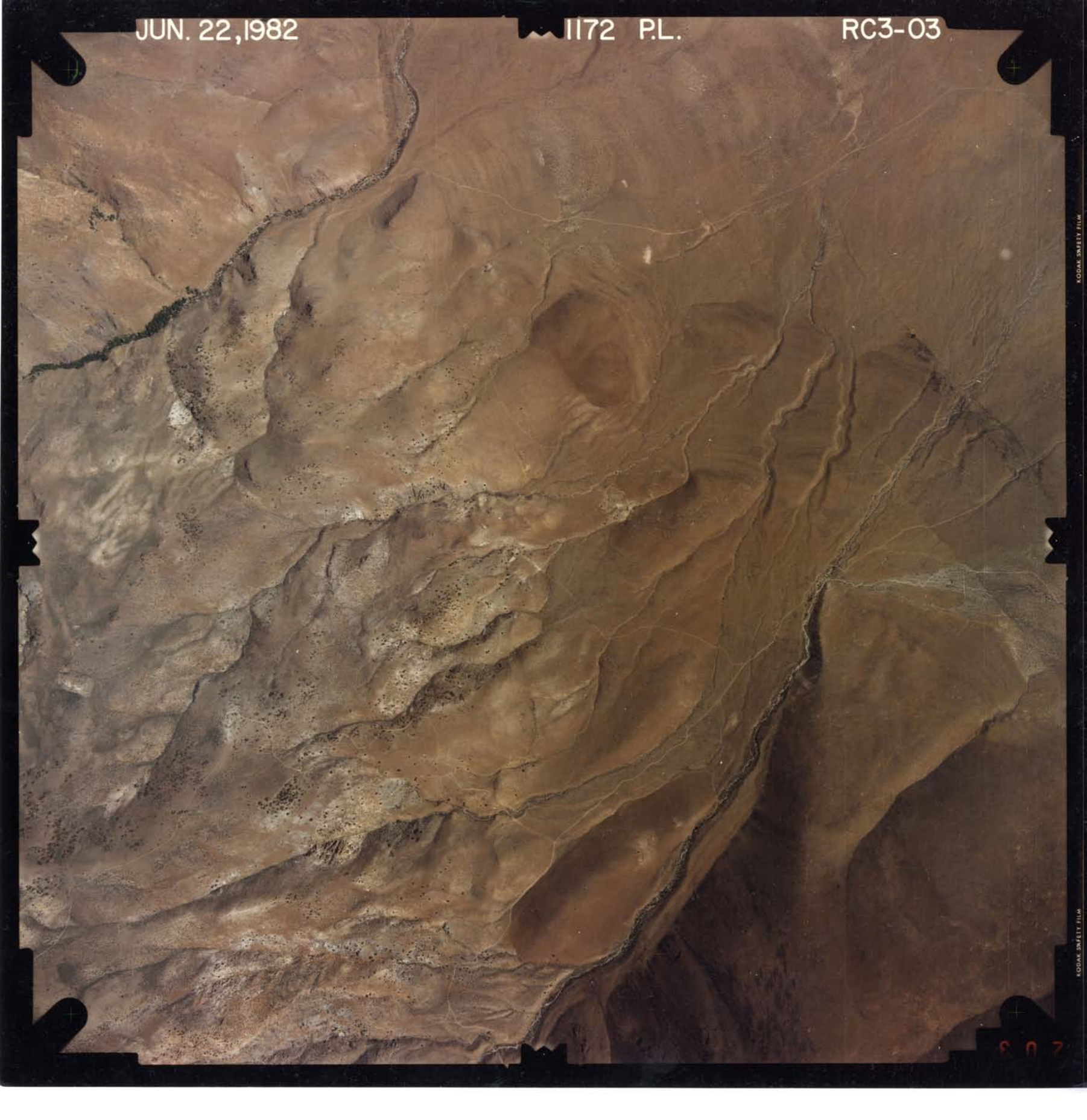
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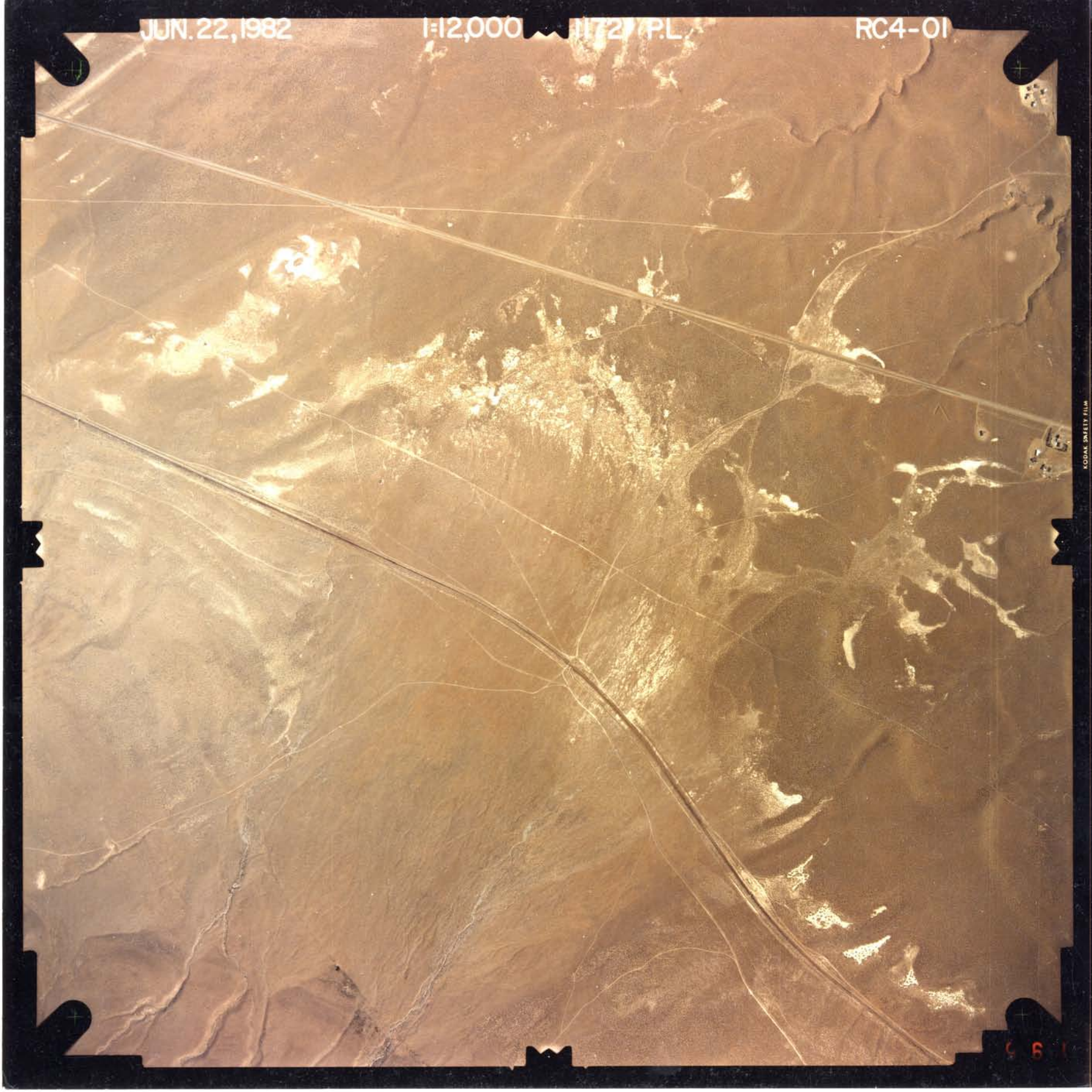
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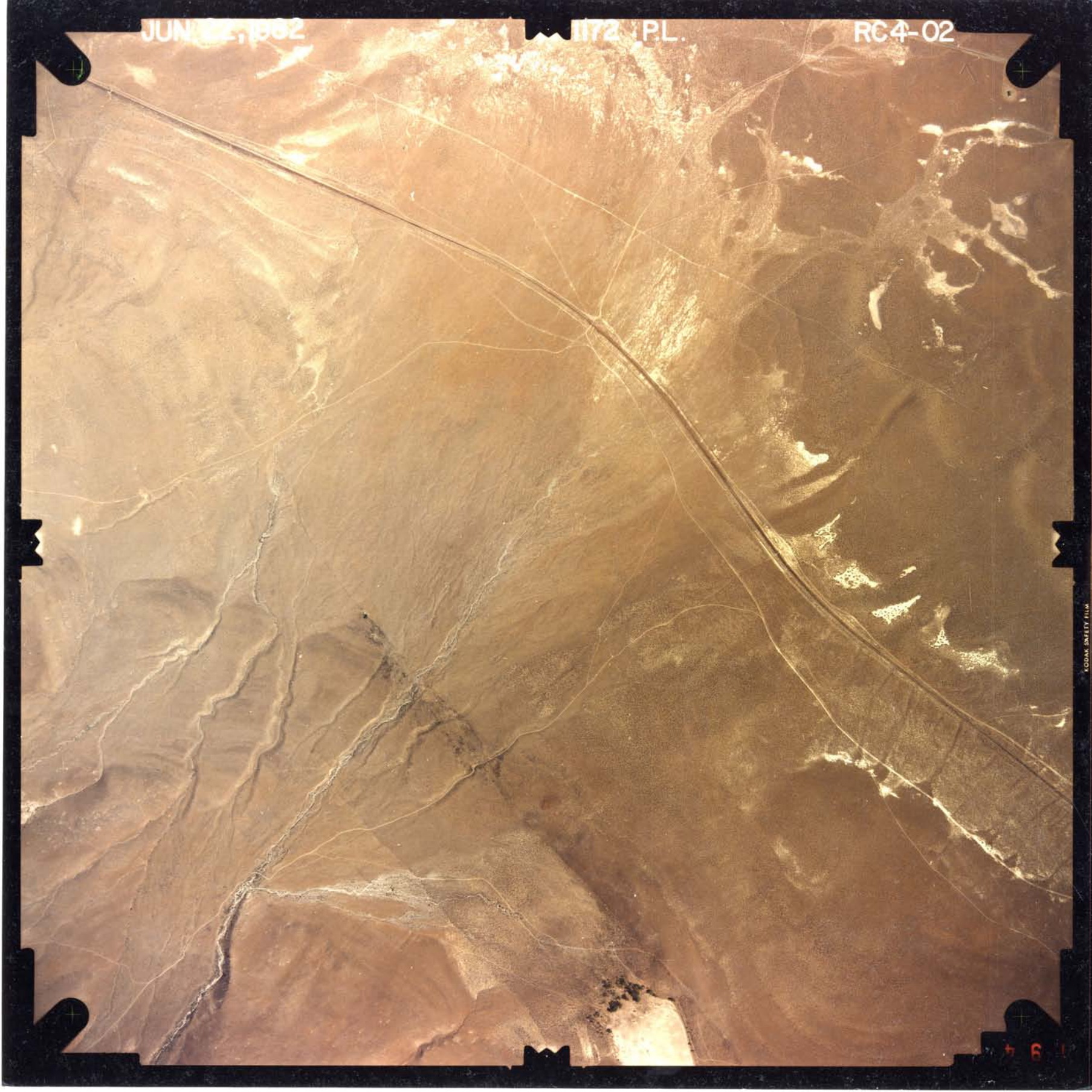
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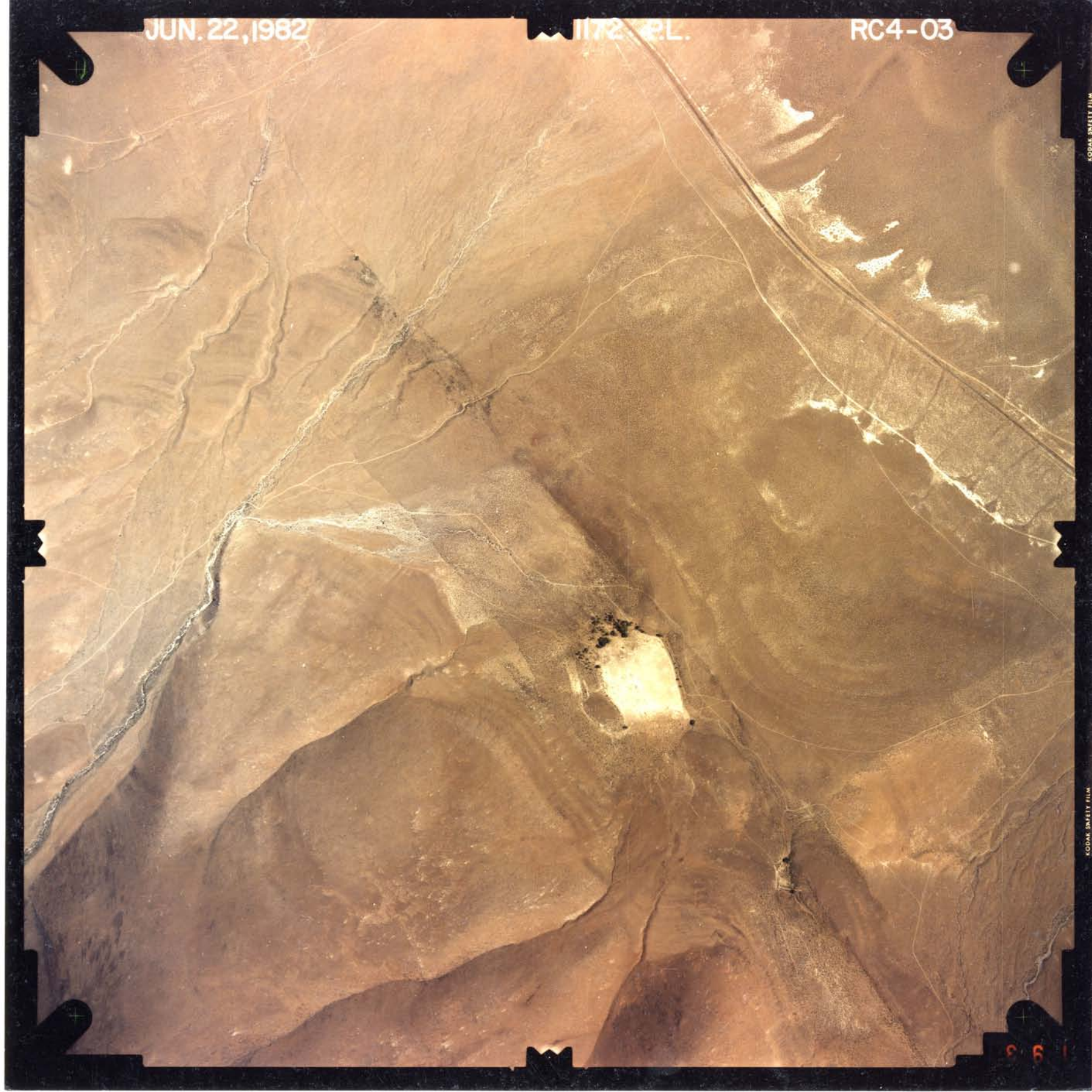
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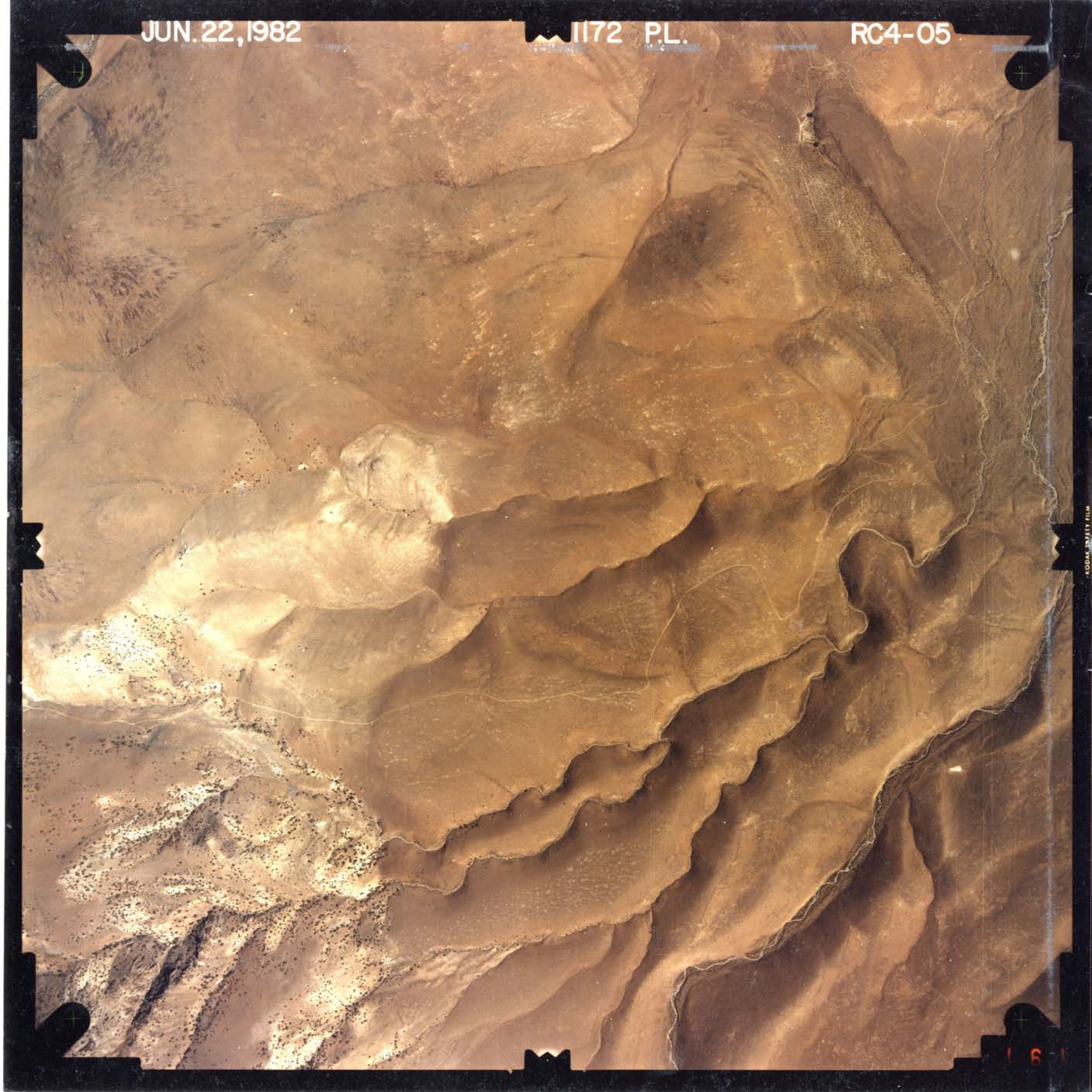
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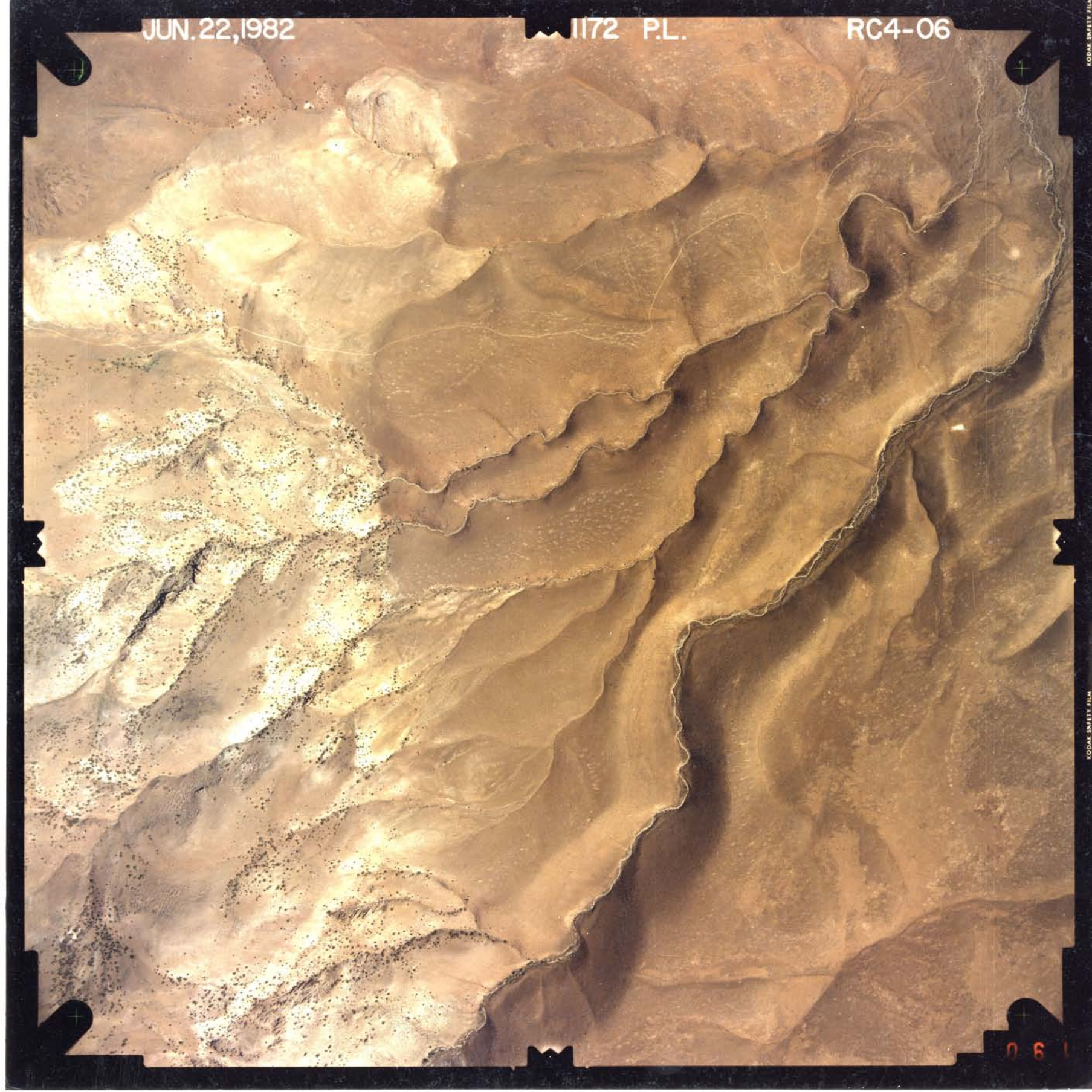
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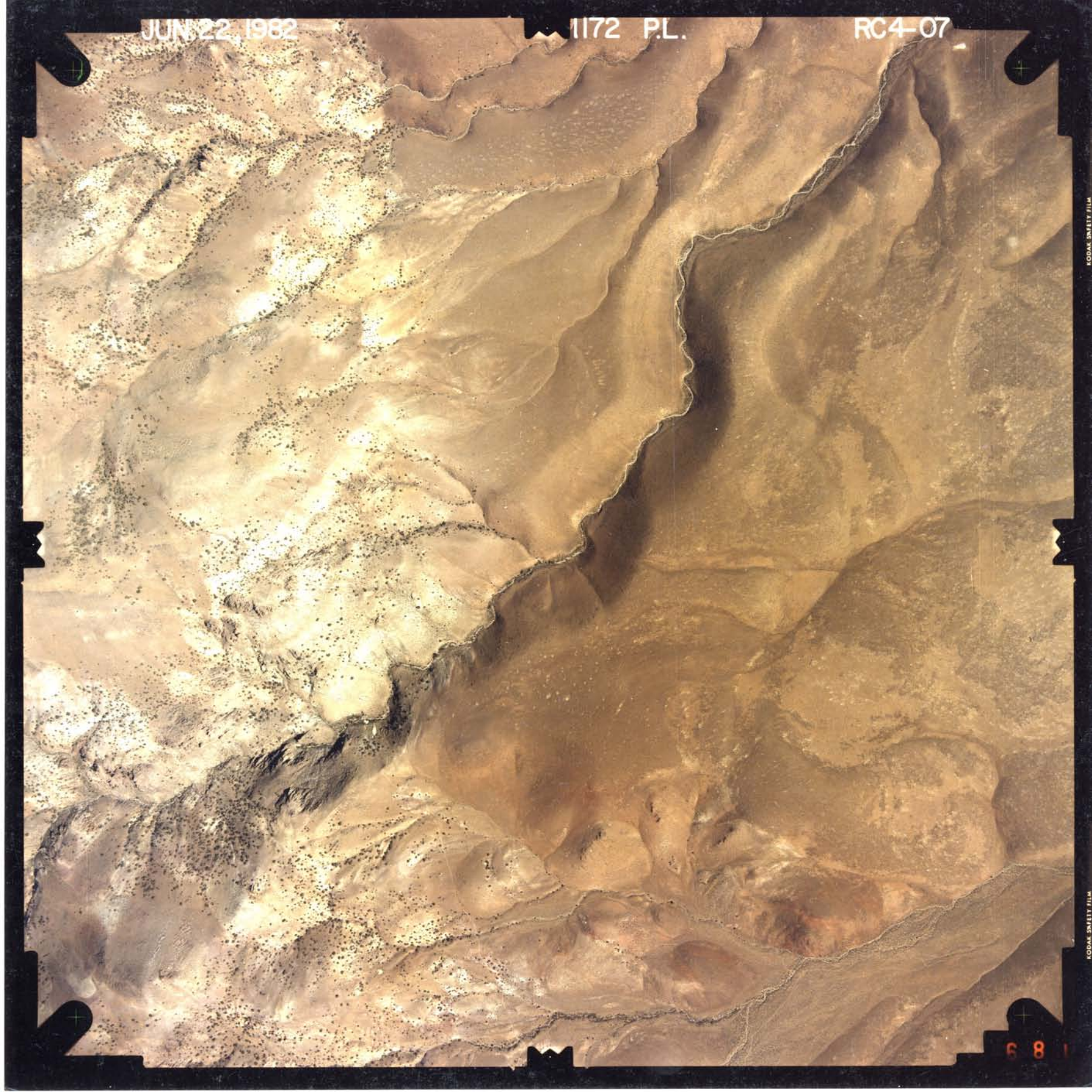
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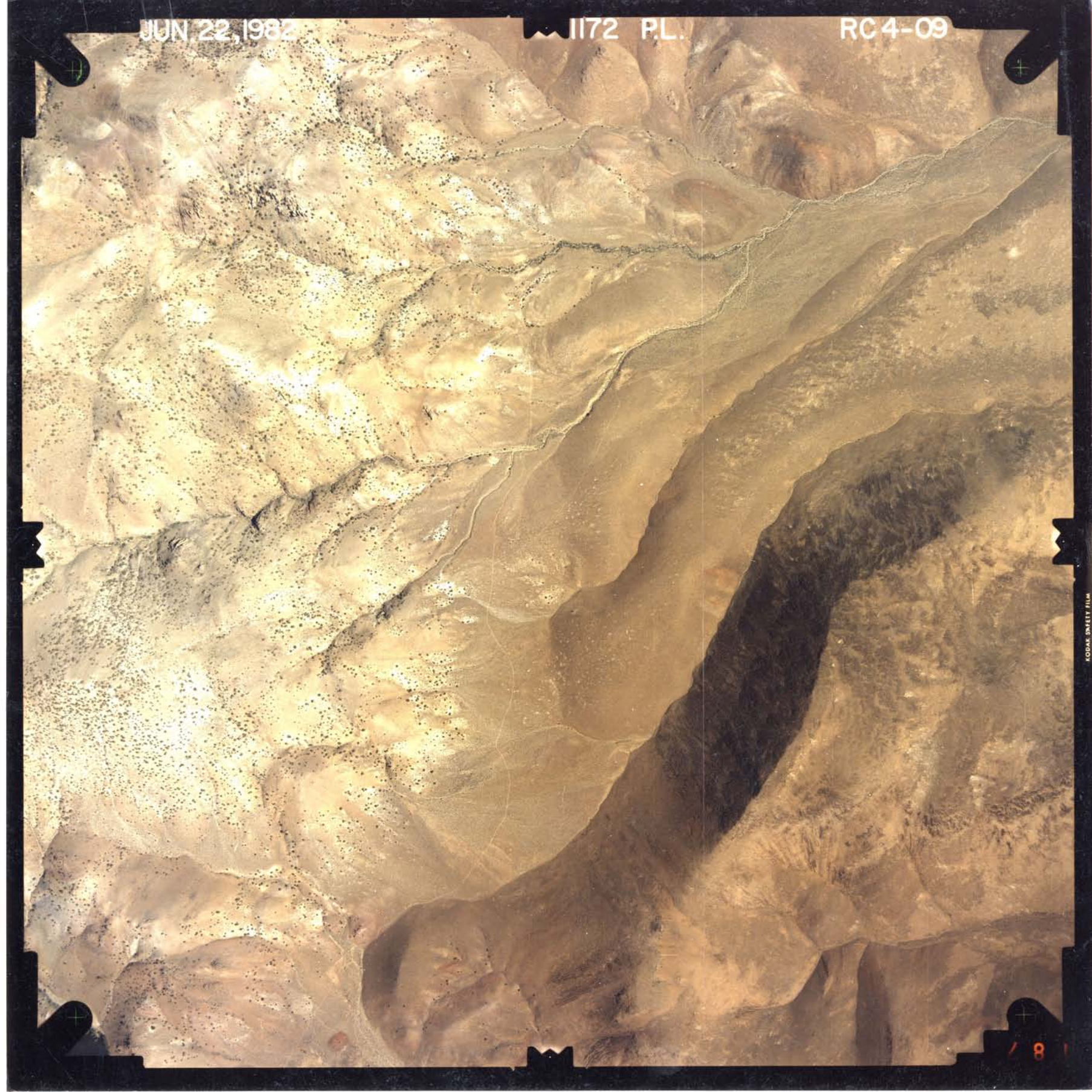
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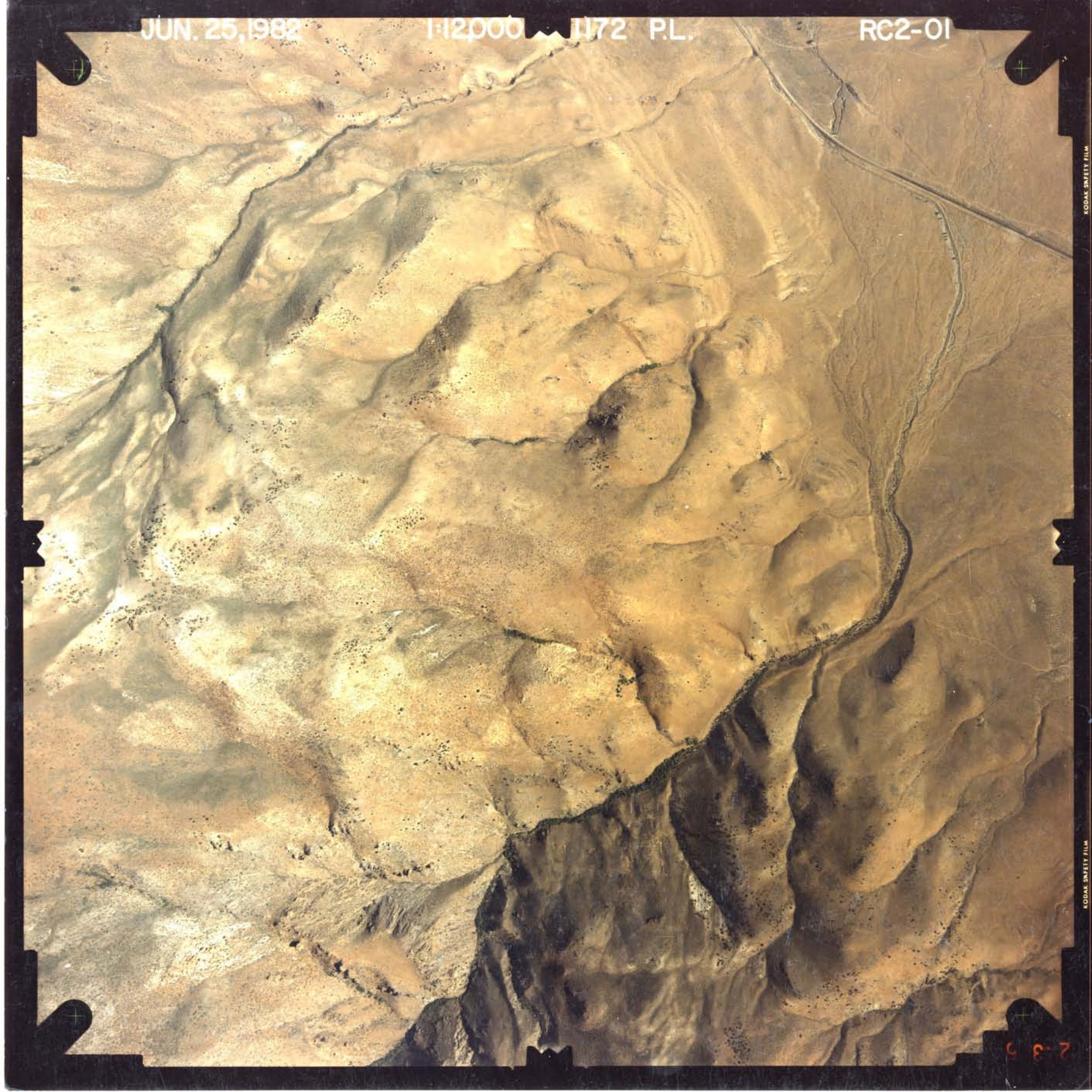
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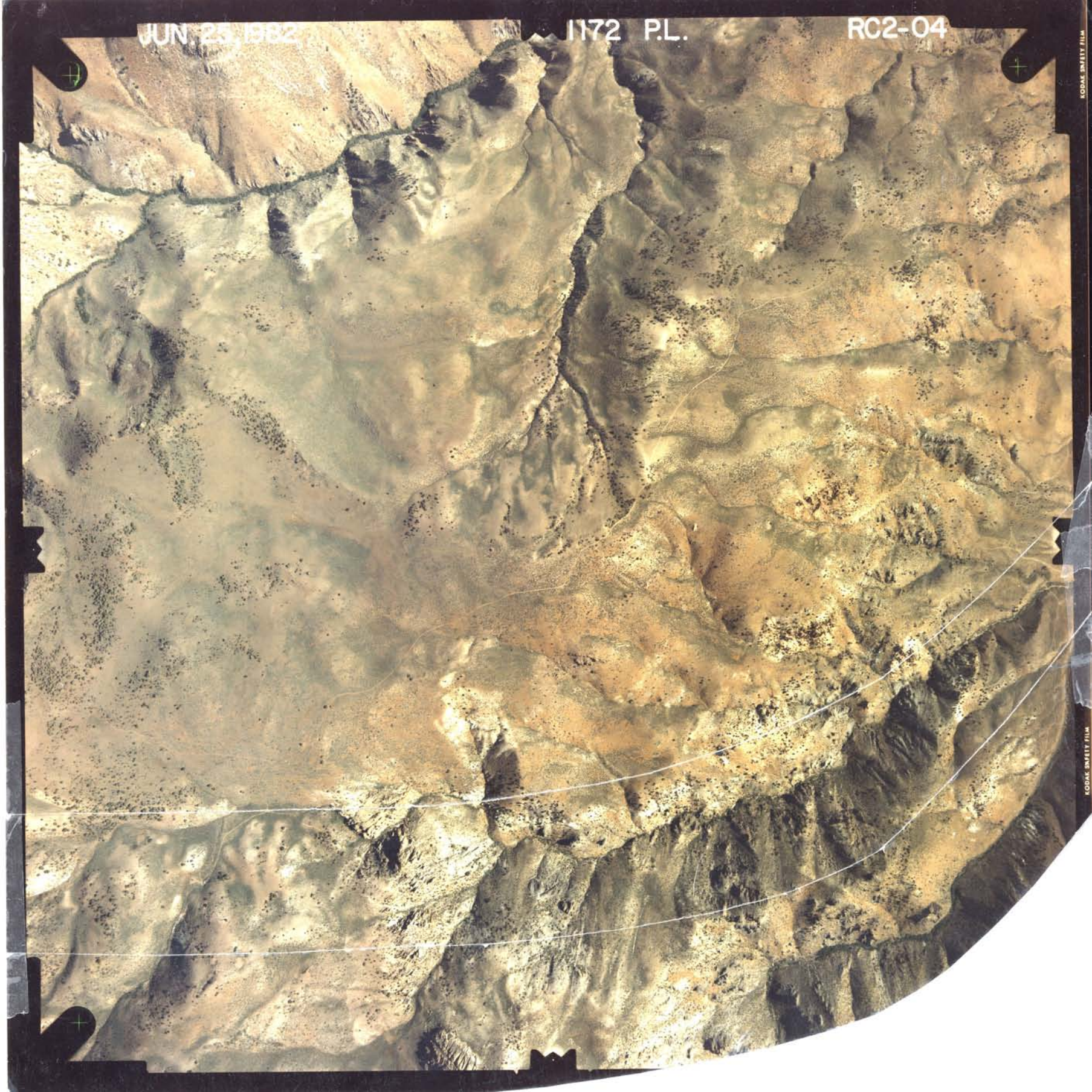
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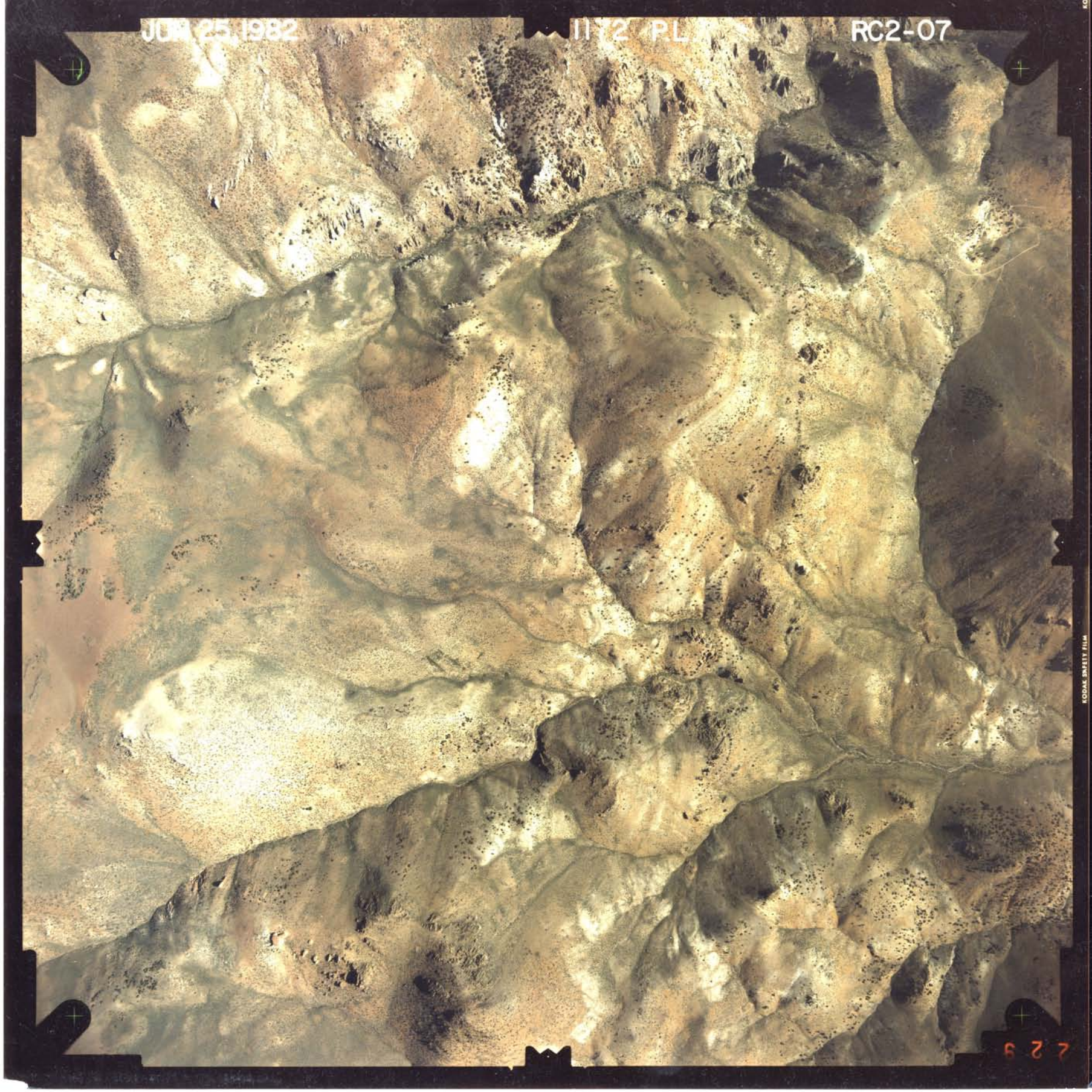
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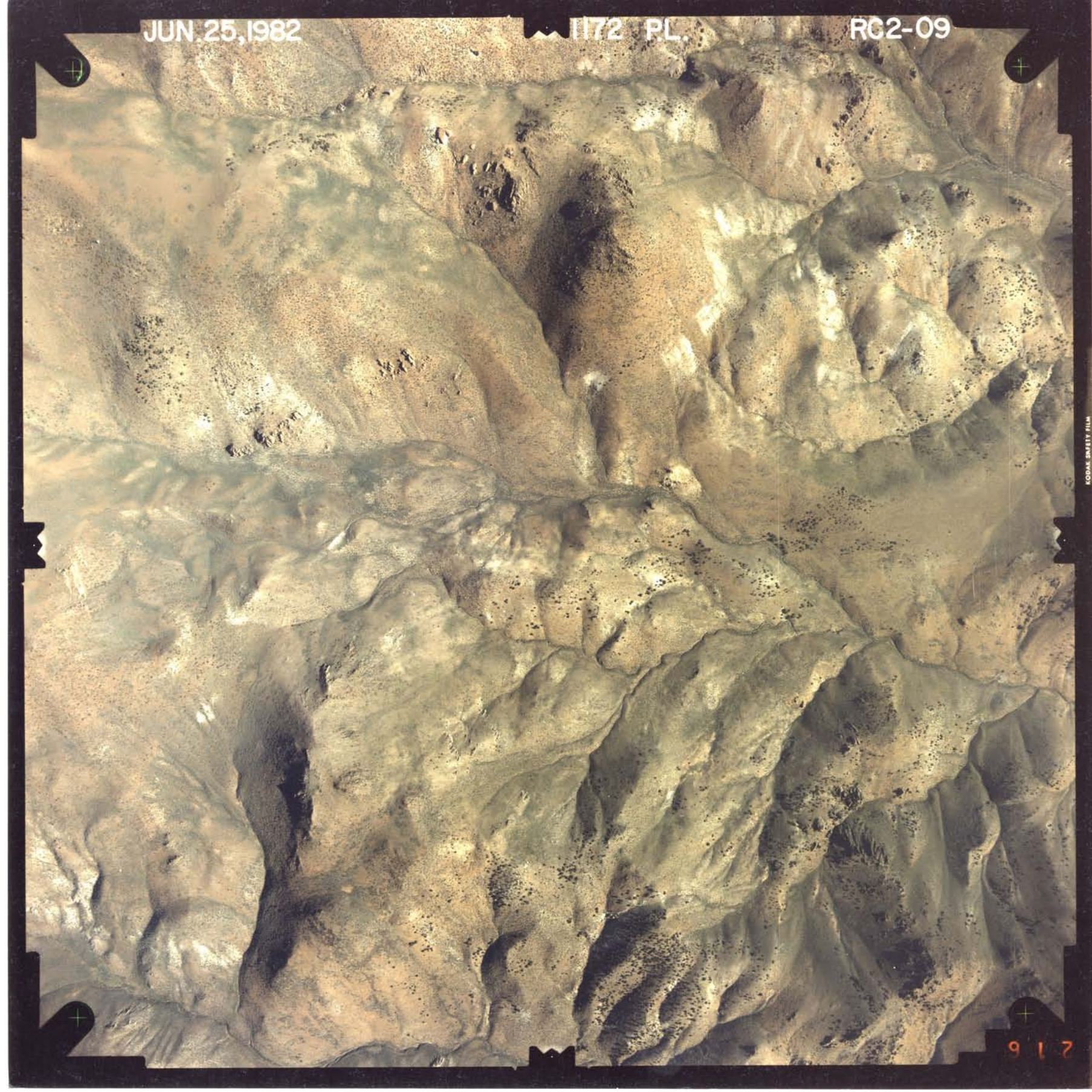
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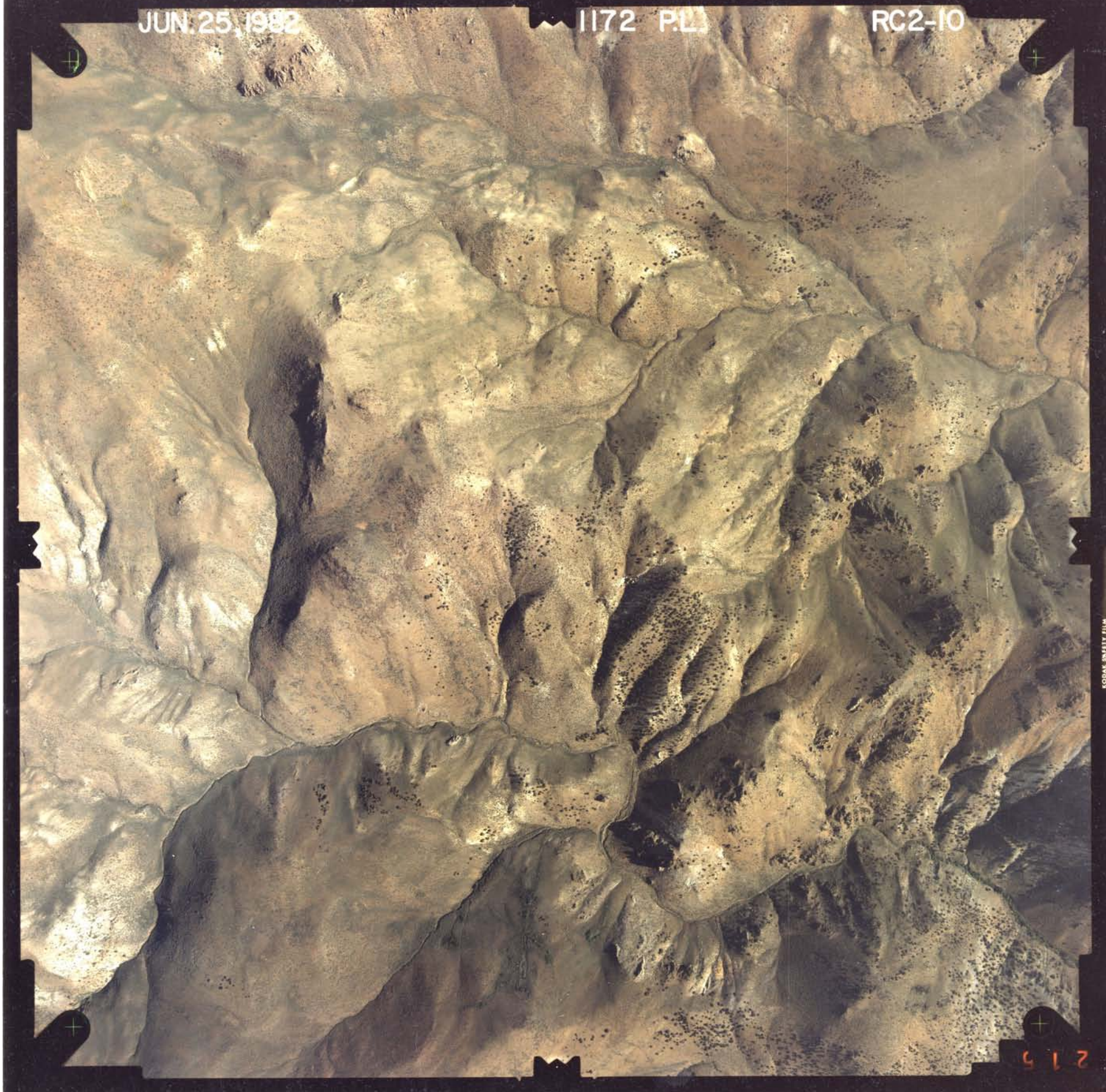
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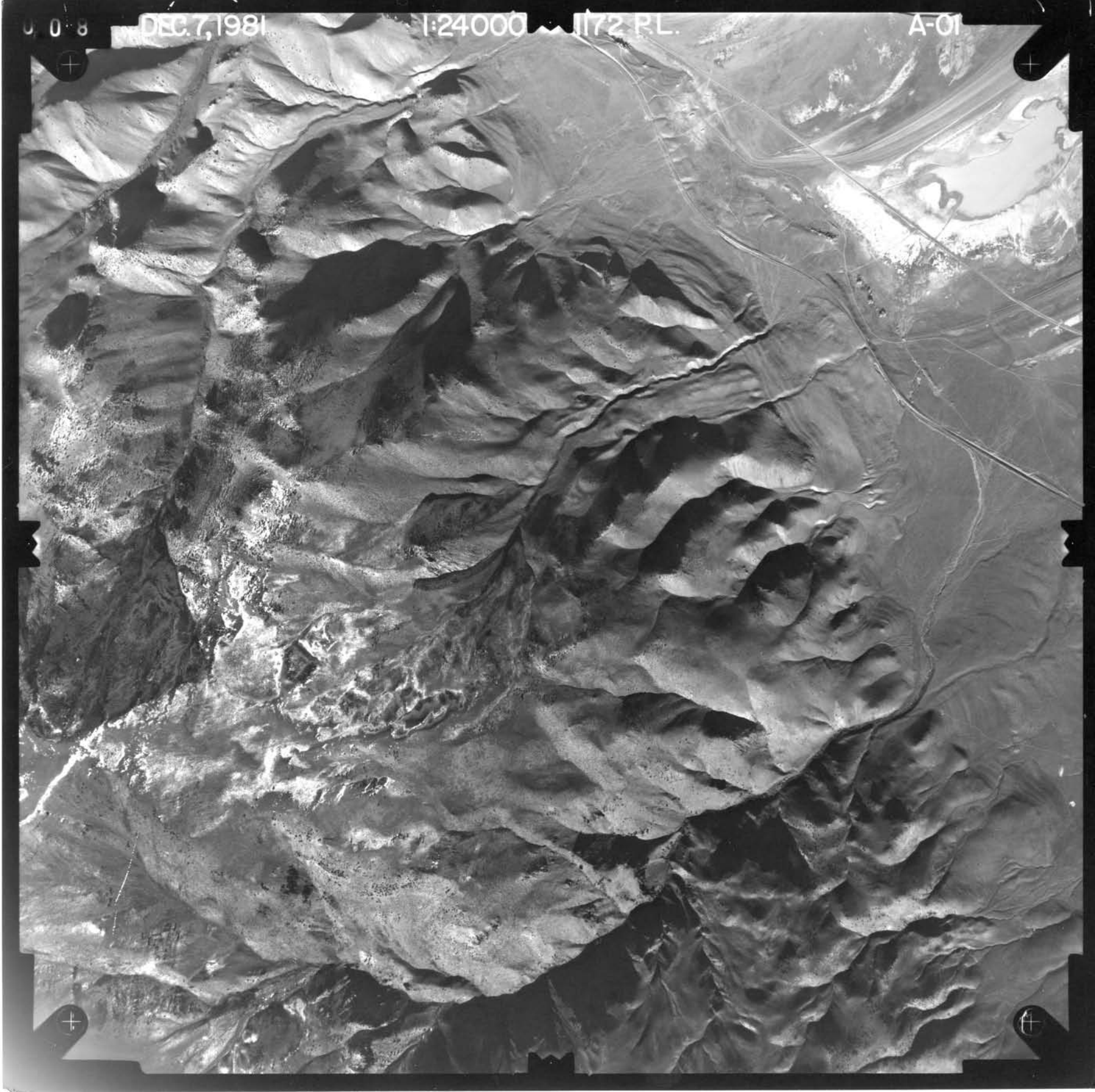
PAIUTE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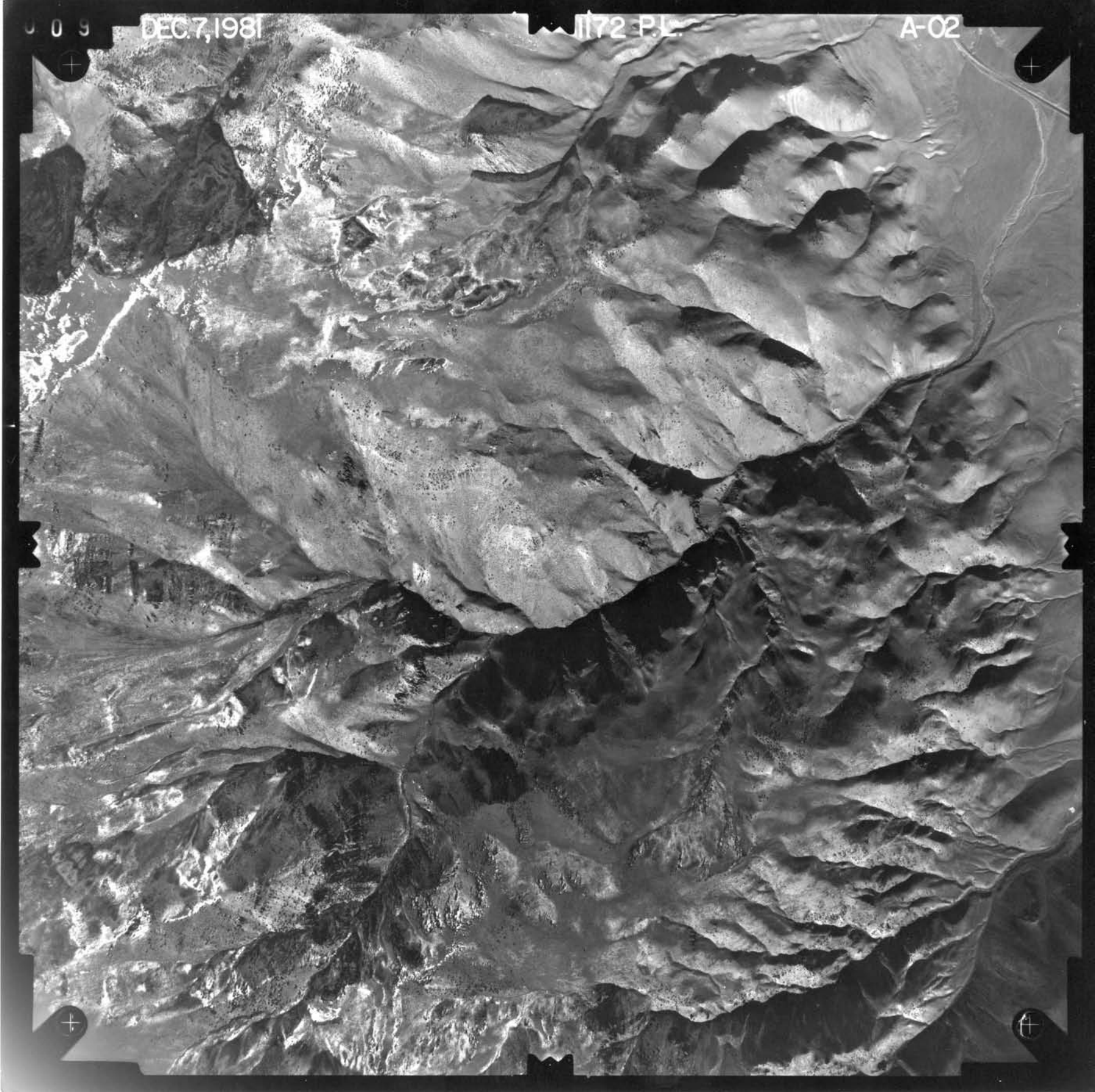
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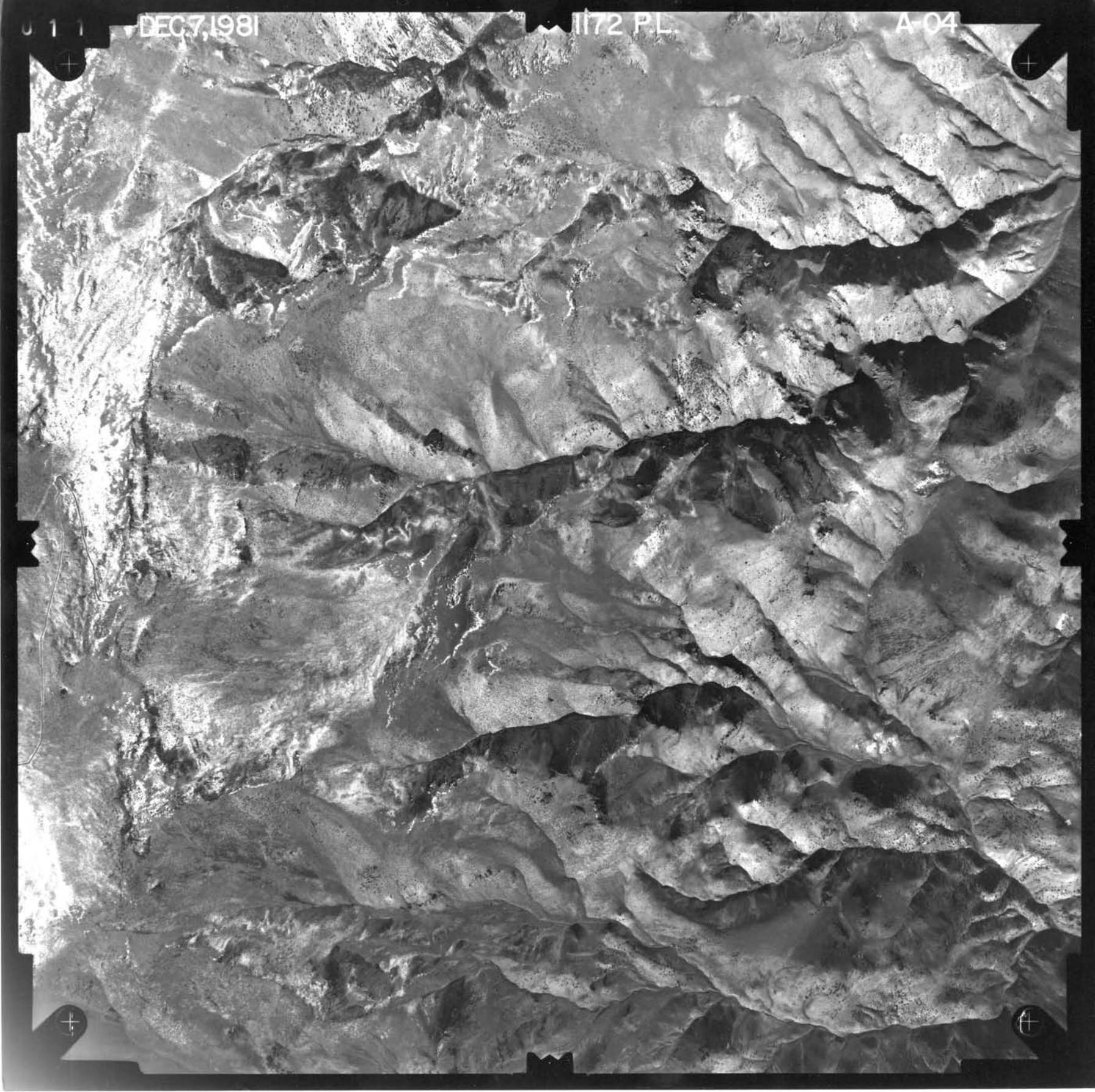
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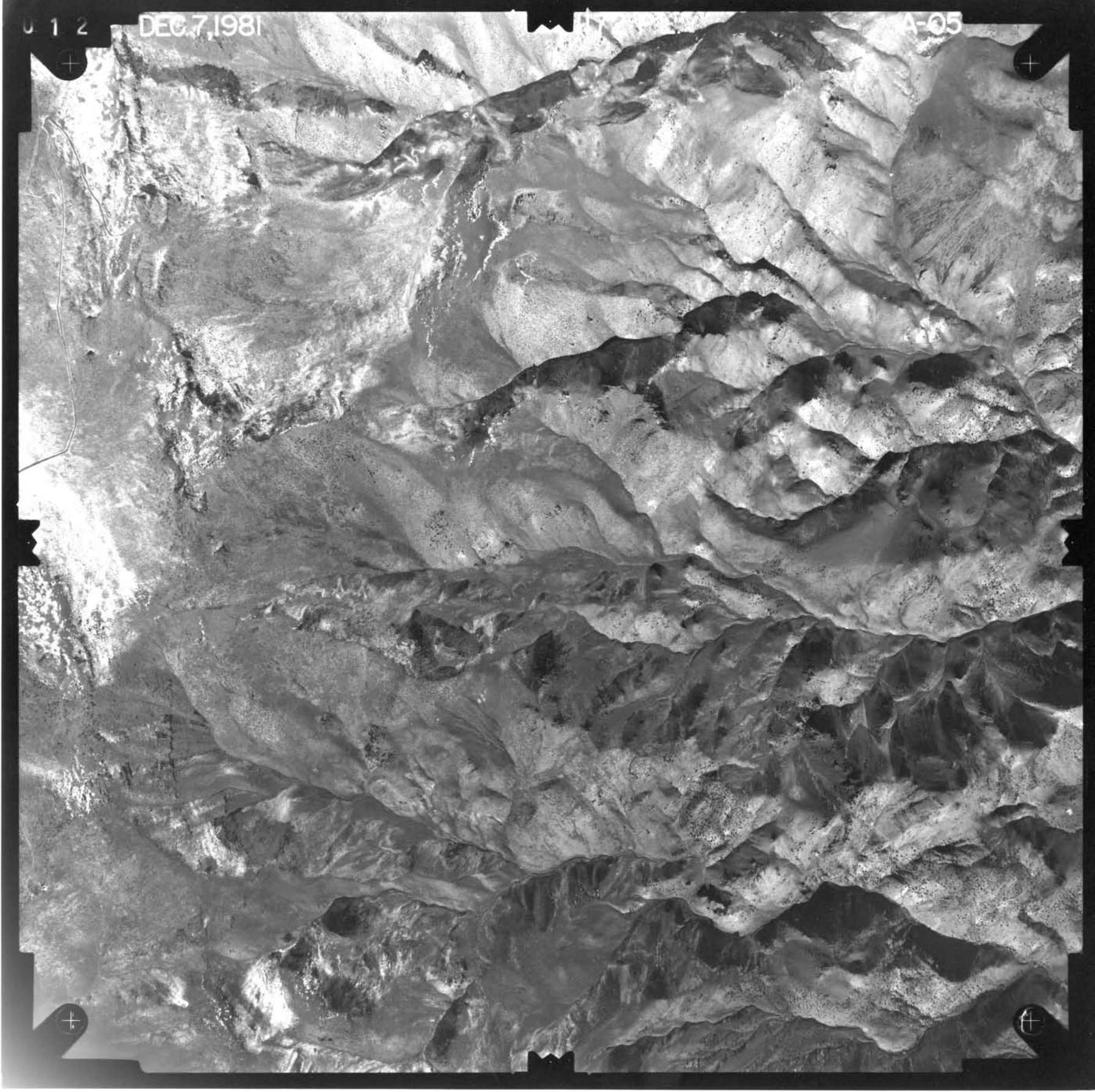
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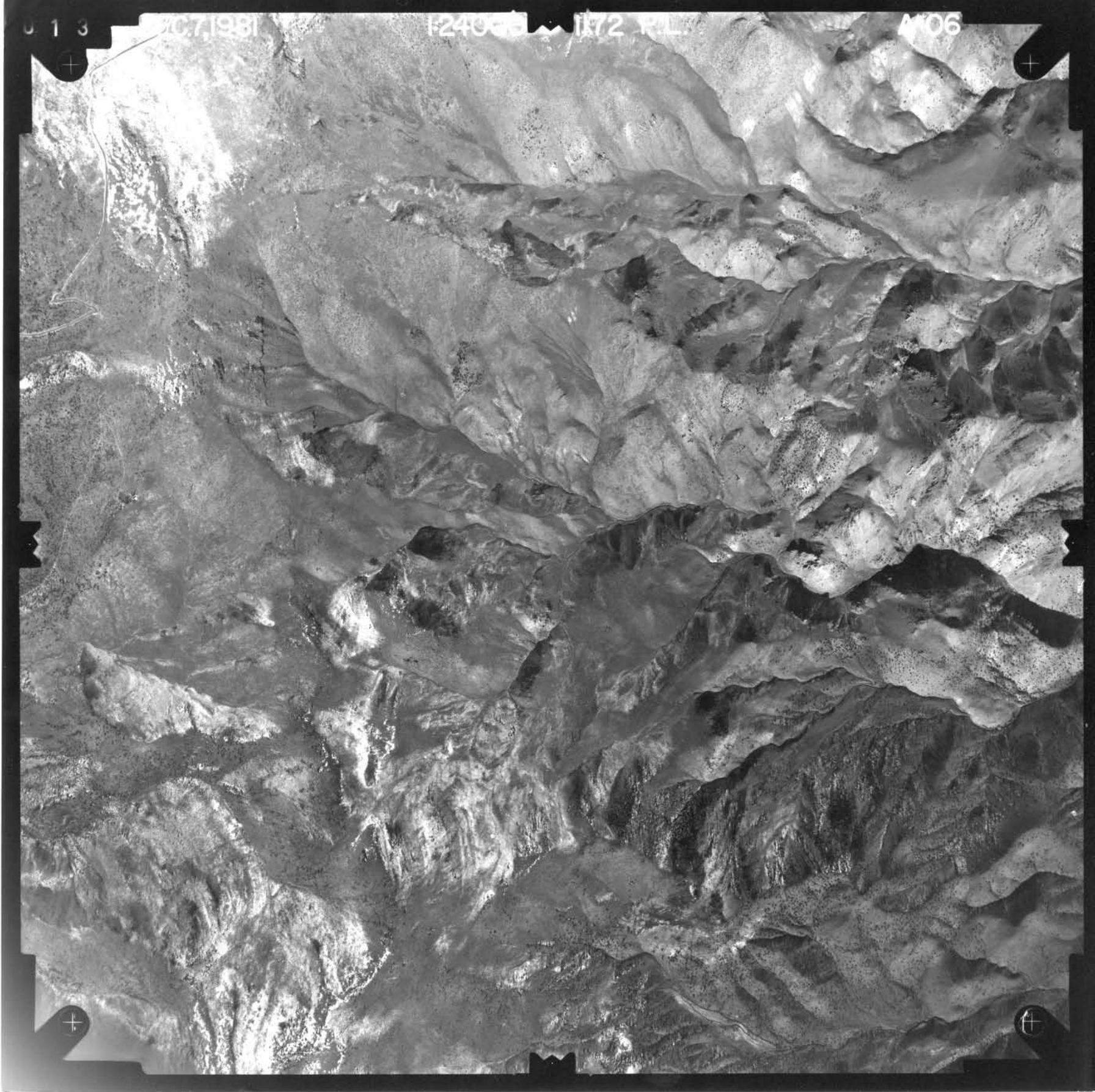
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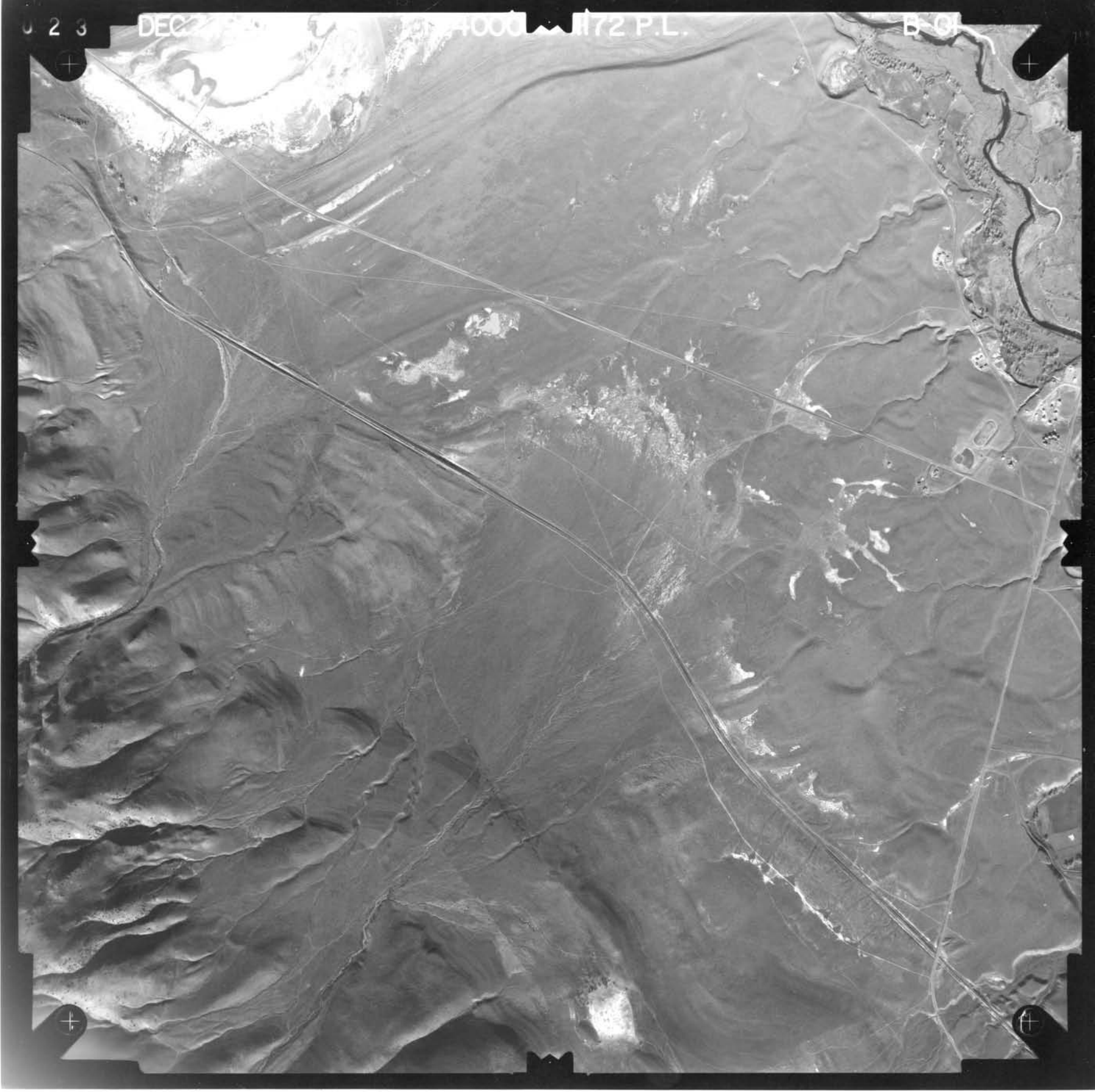
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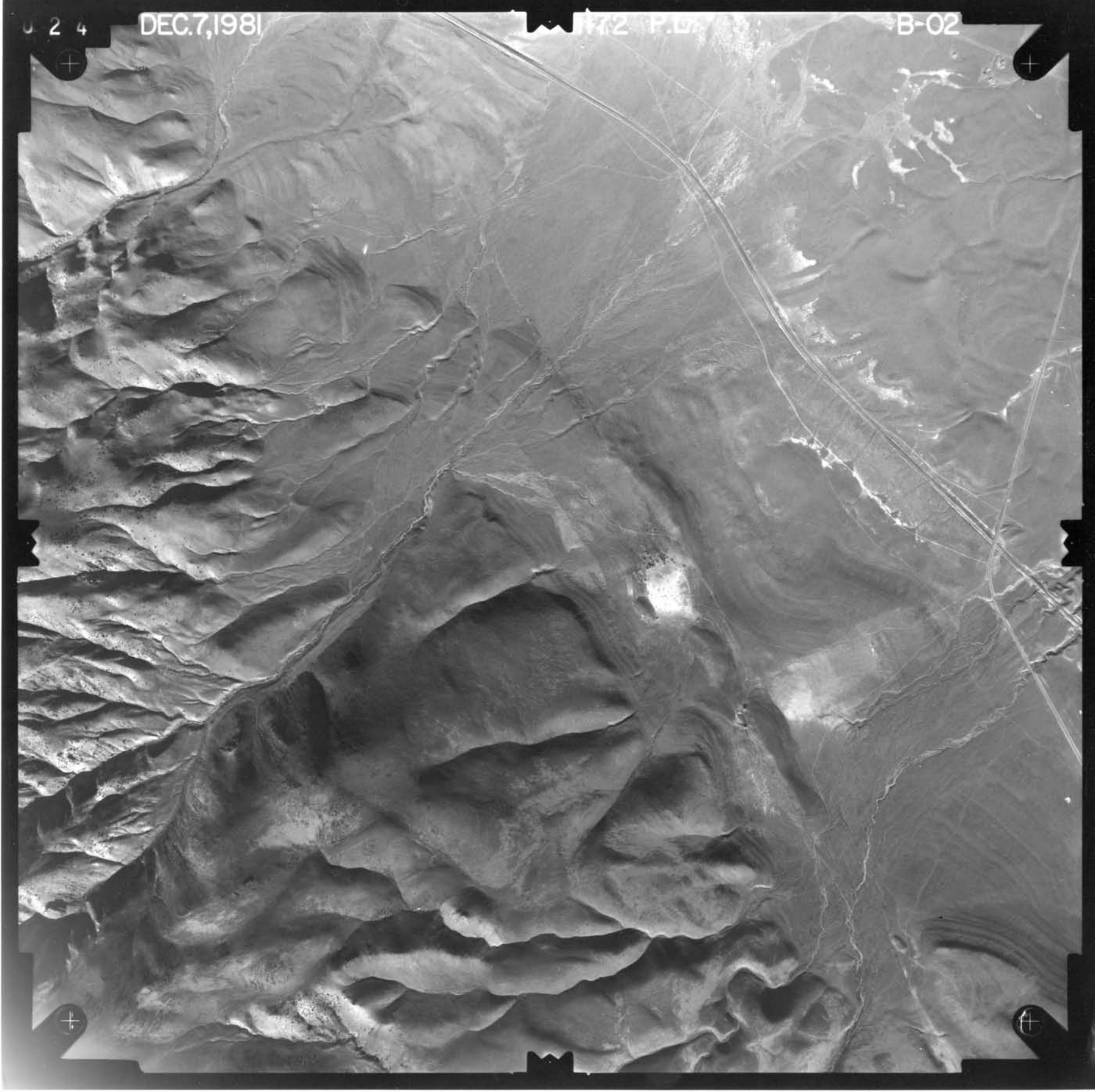
4000
172 P.L.
B 01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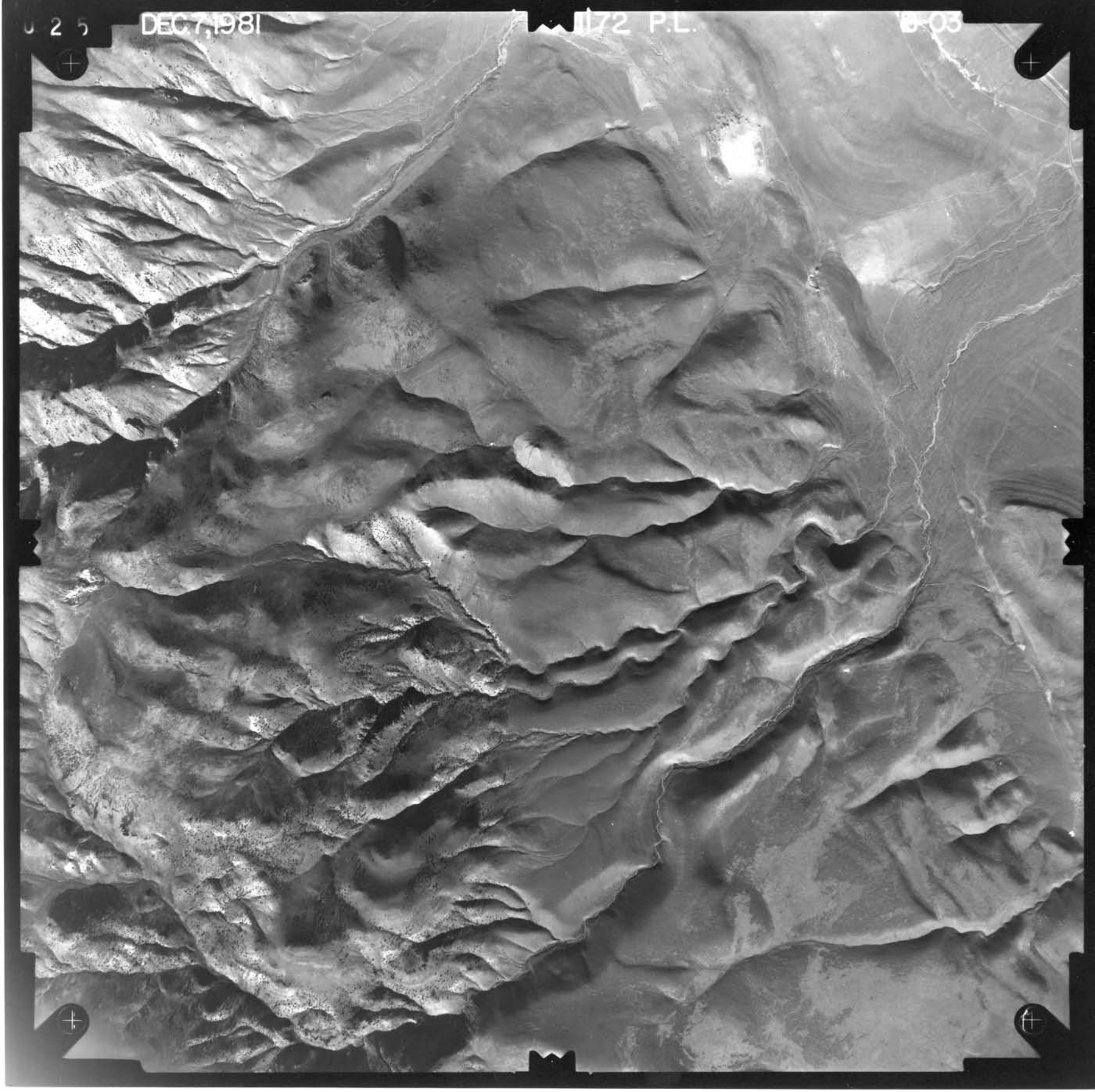
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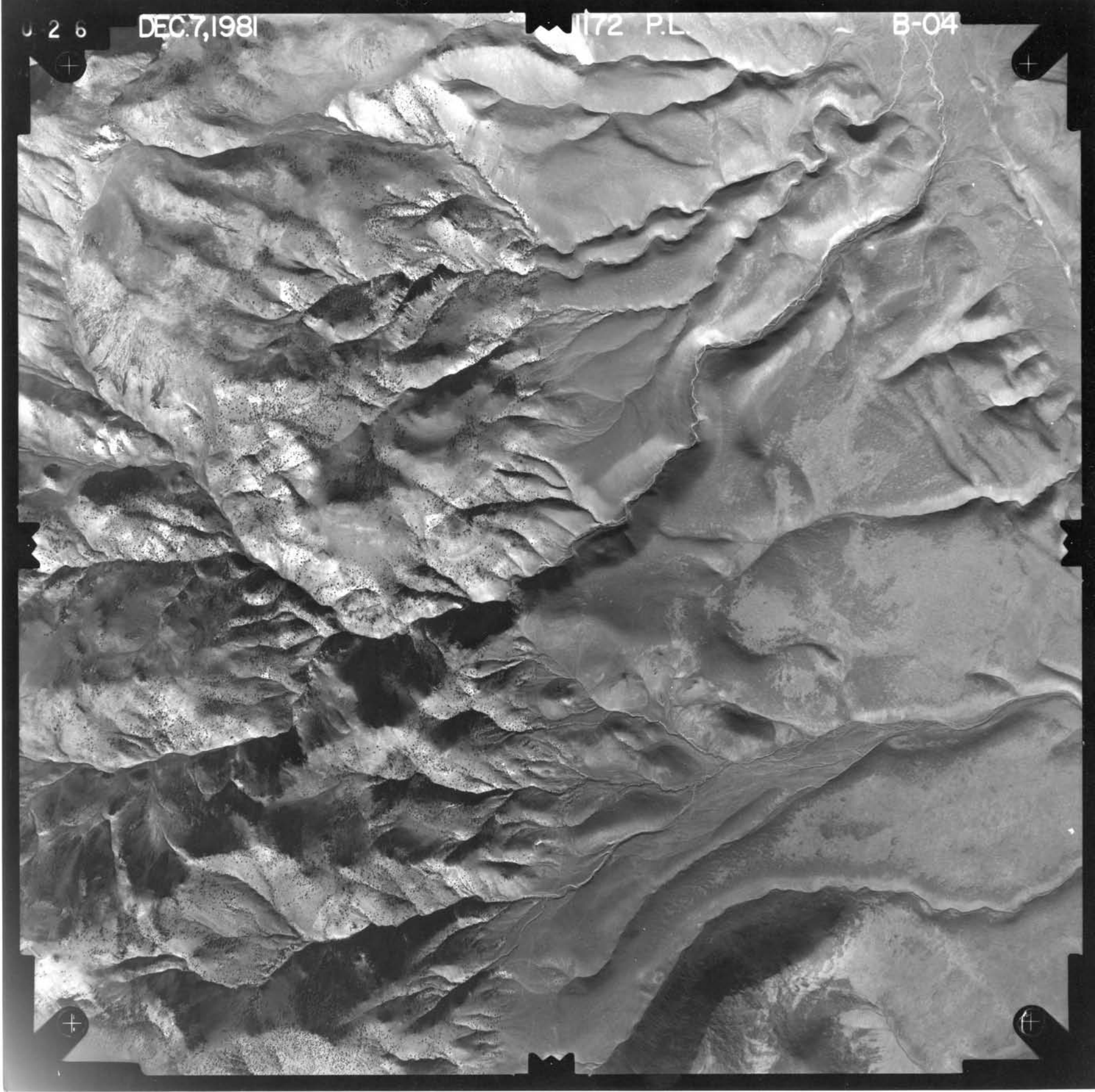
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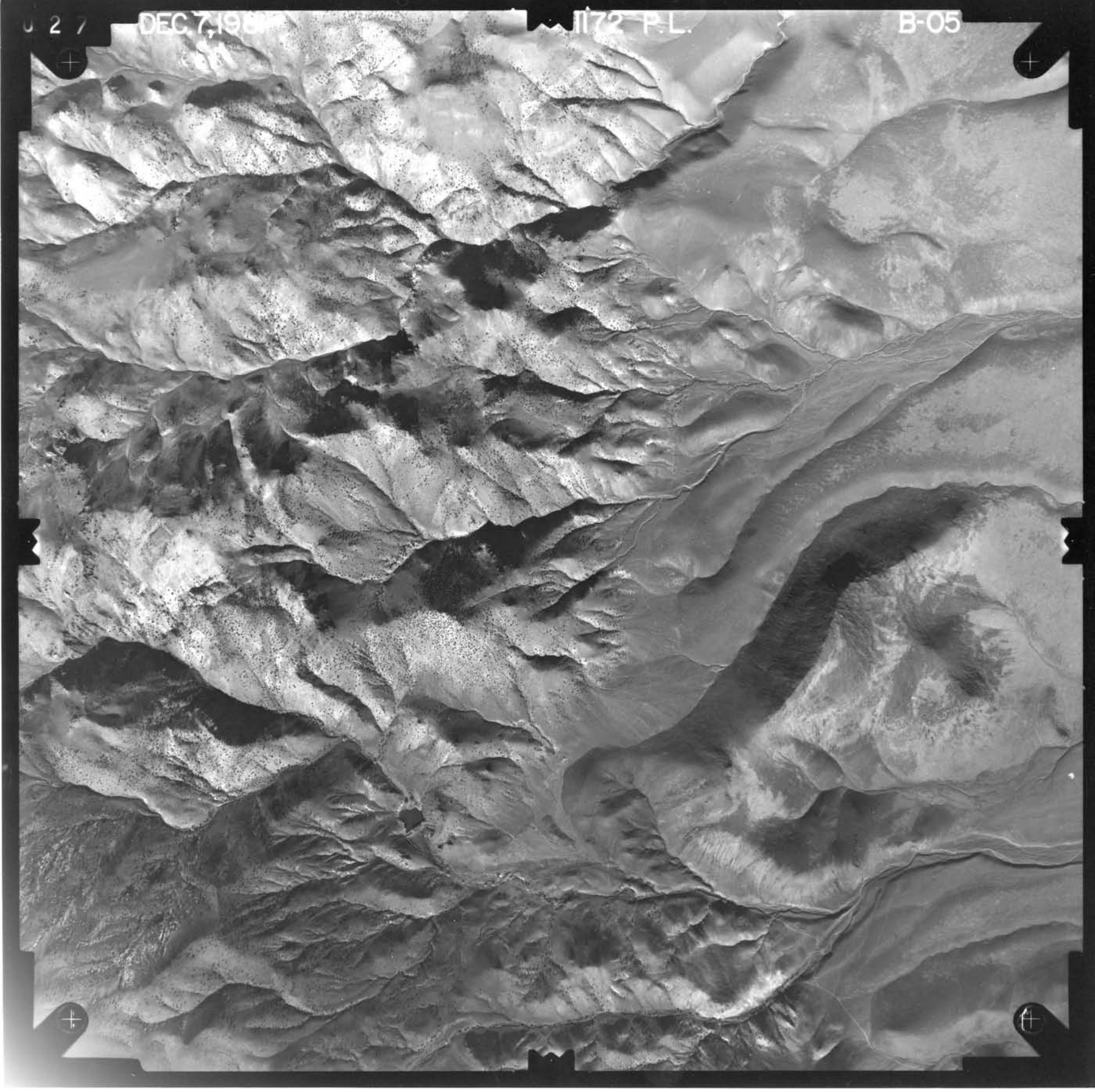
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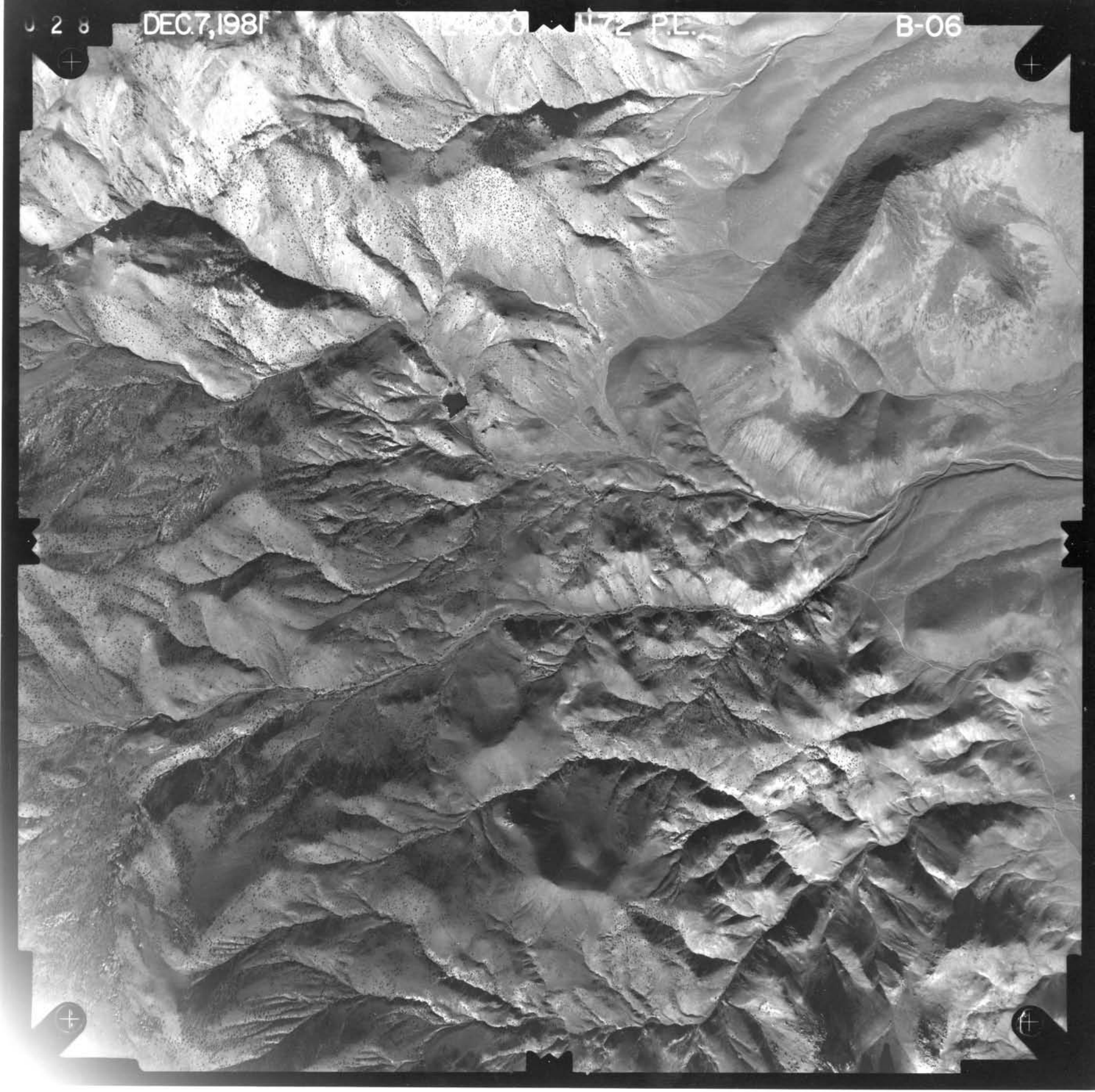
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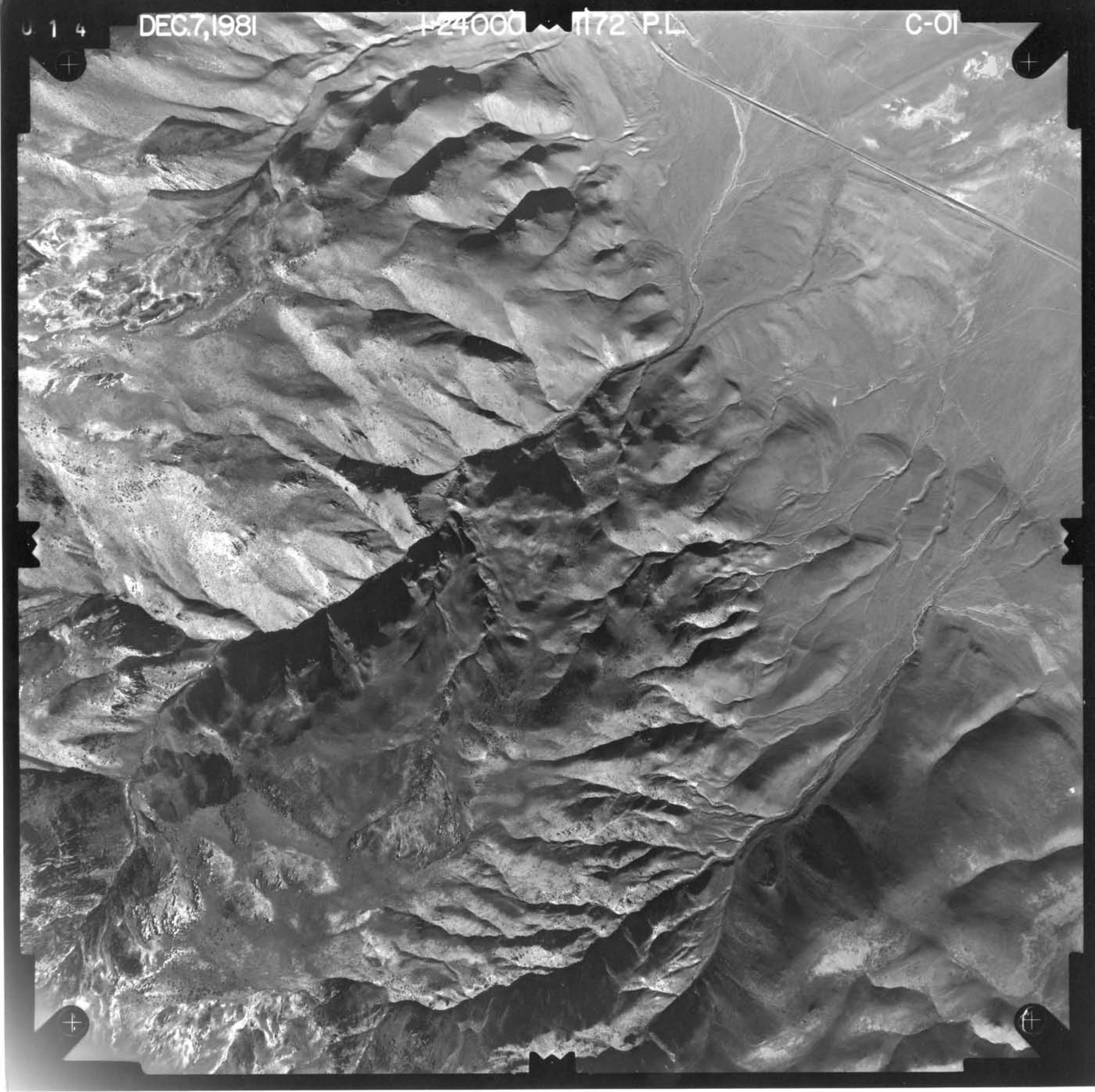
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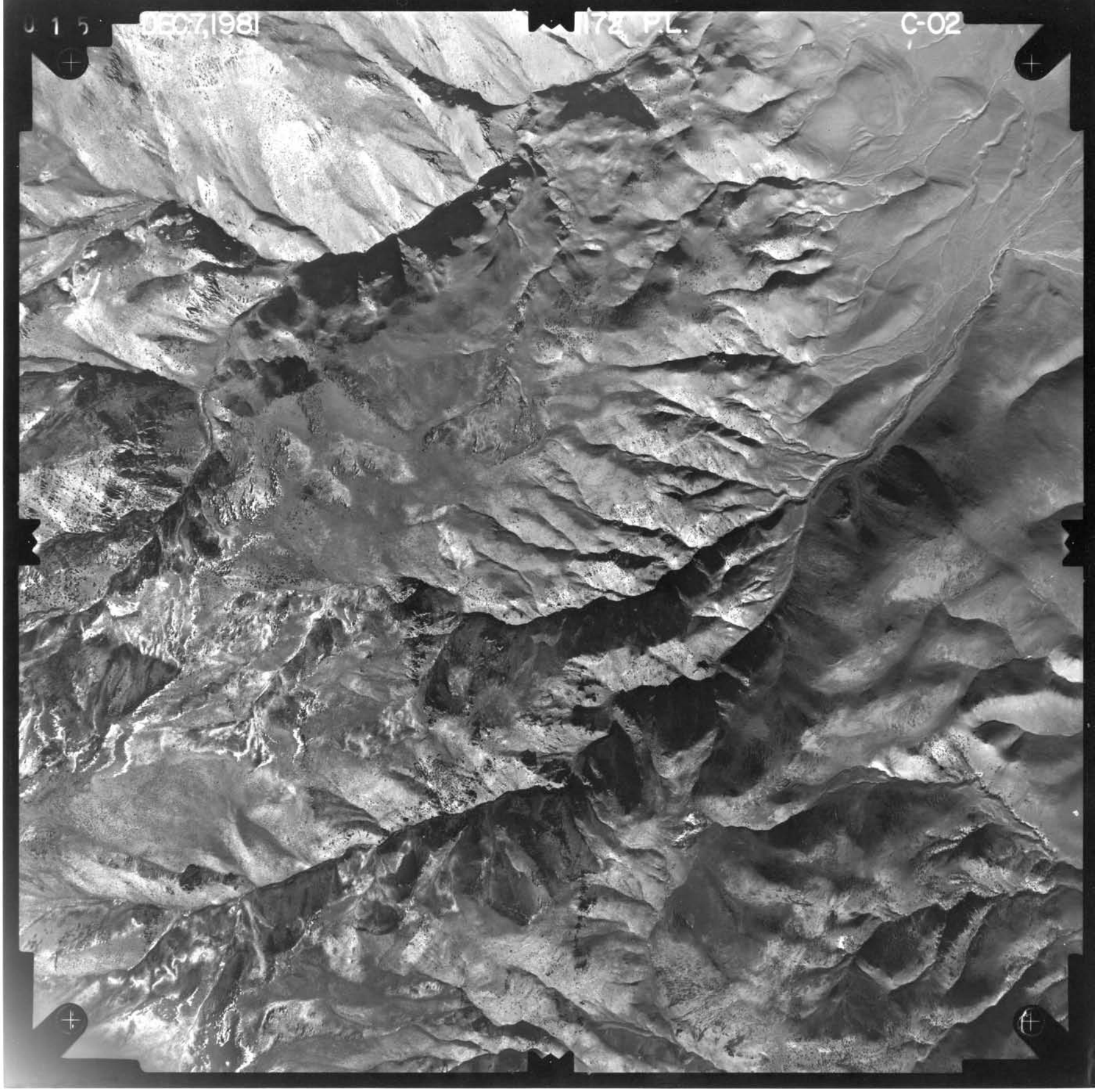
C-01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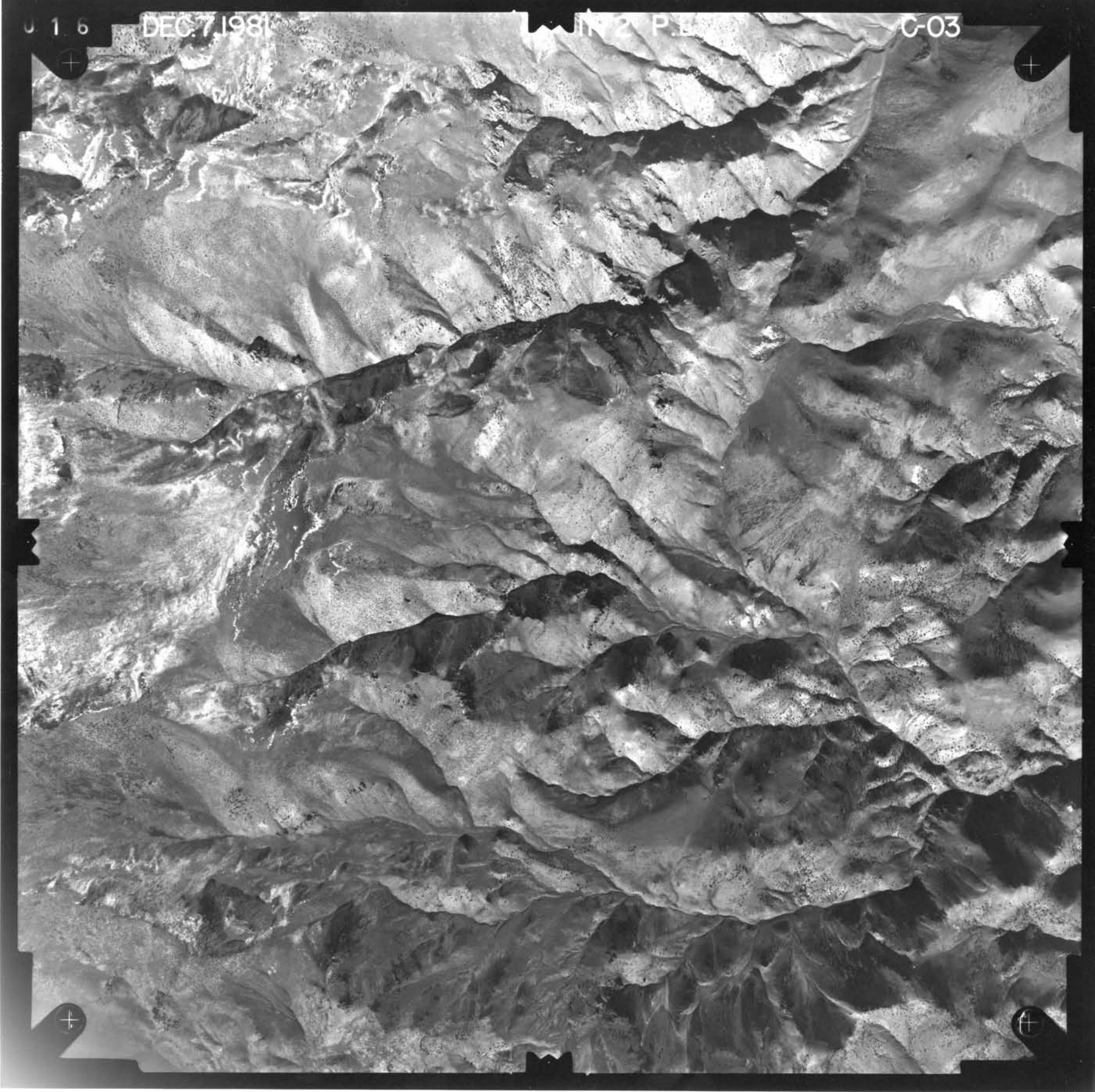
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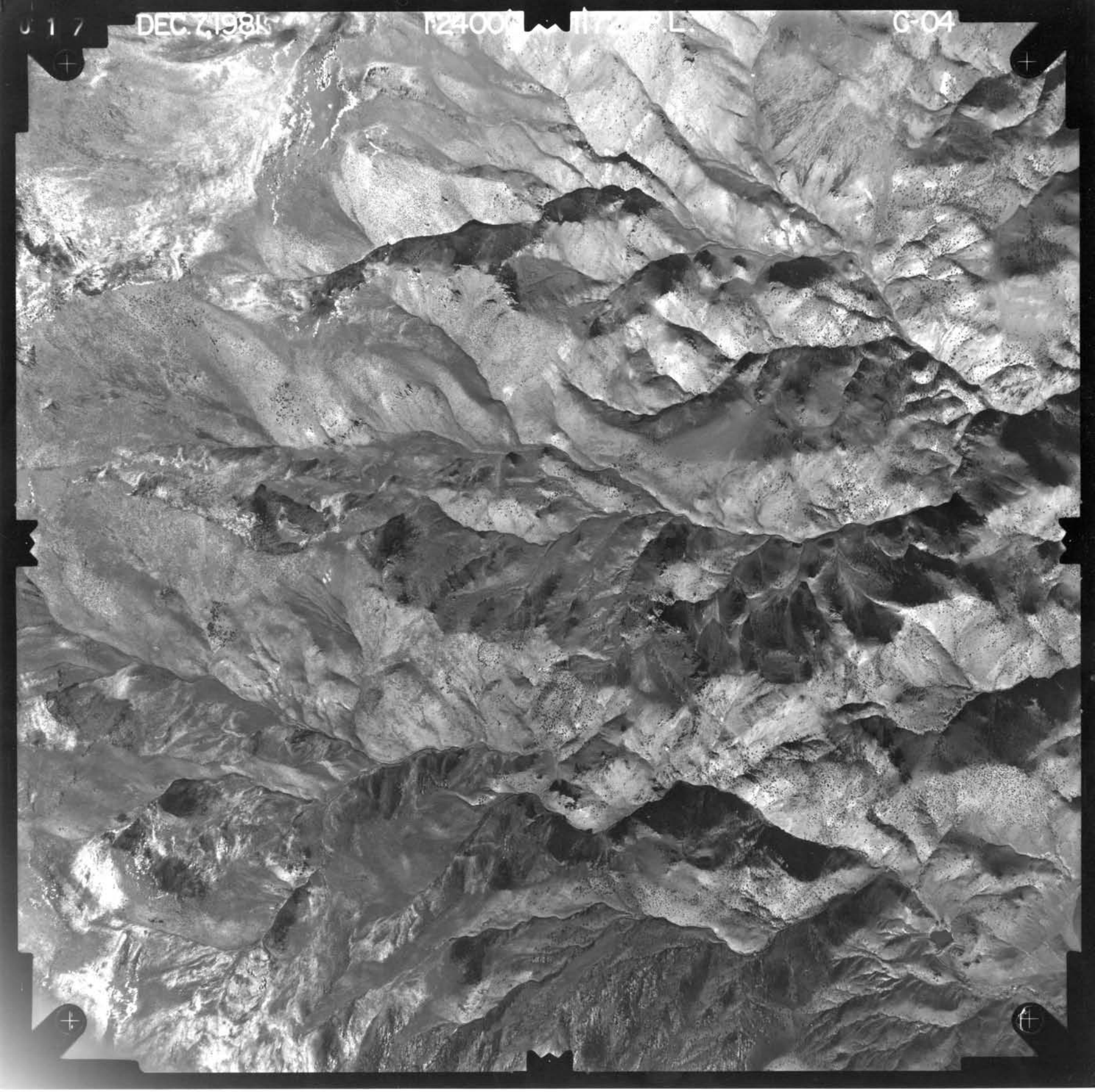

DEC. 2,1981
G-04

BRISTLECONE MINING CO.

2525 Sharon Way; Reno, NV 89509; (702) 826-2838

July 17, 1989

Olympus Aerial Surveys
50 West, 2950 South
Salt Lake City, Utah 84115

Dear Sirs;

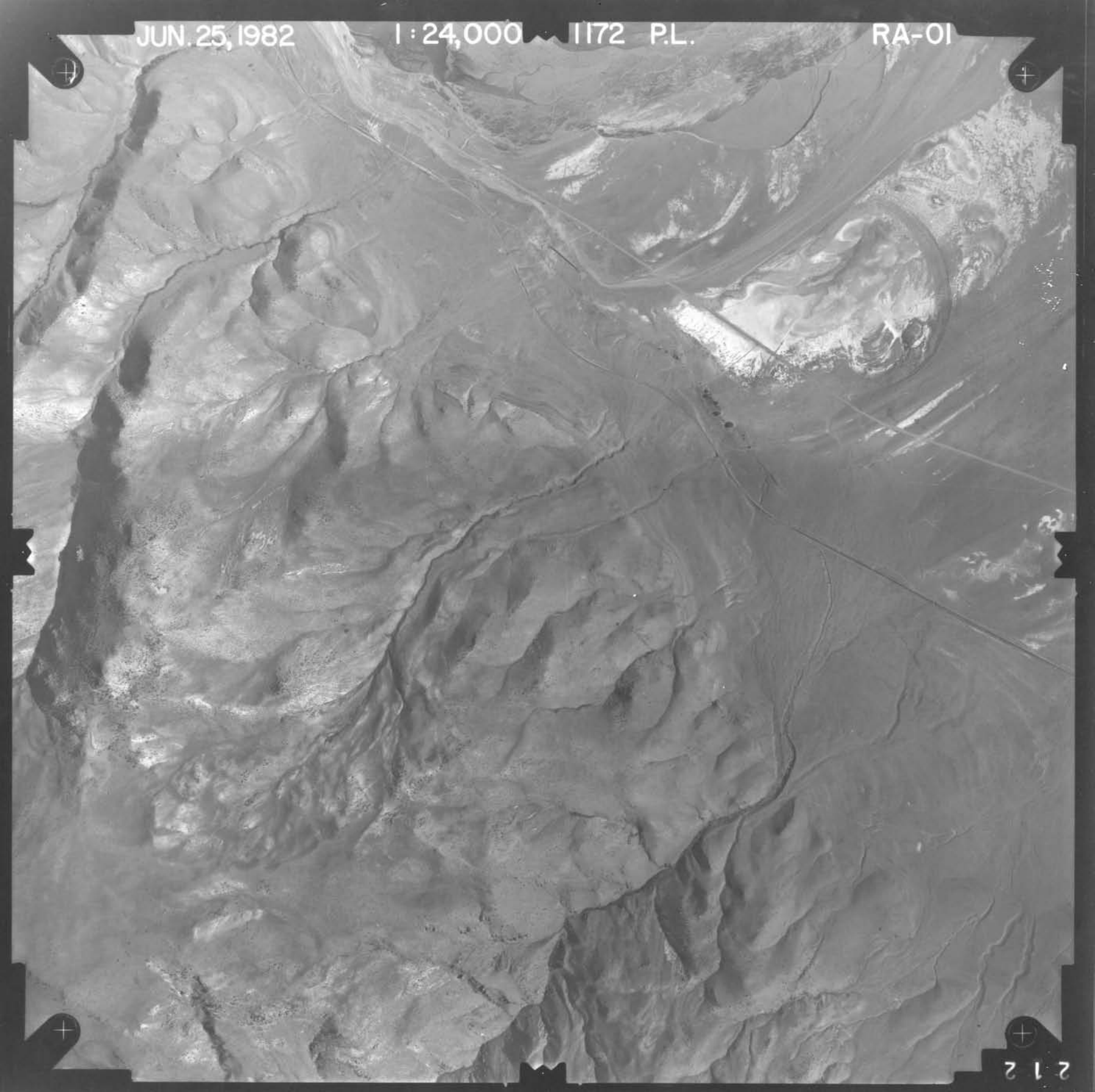
Please find enclosed our check for $114 to cover the cost of making two enlargements from your June 25, 1982 work on Denison Mines' Pyramid Lake project #1172 PL, frames RC2-04 and RC2-05.

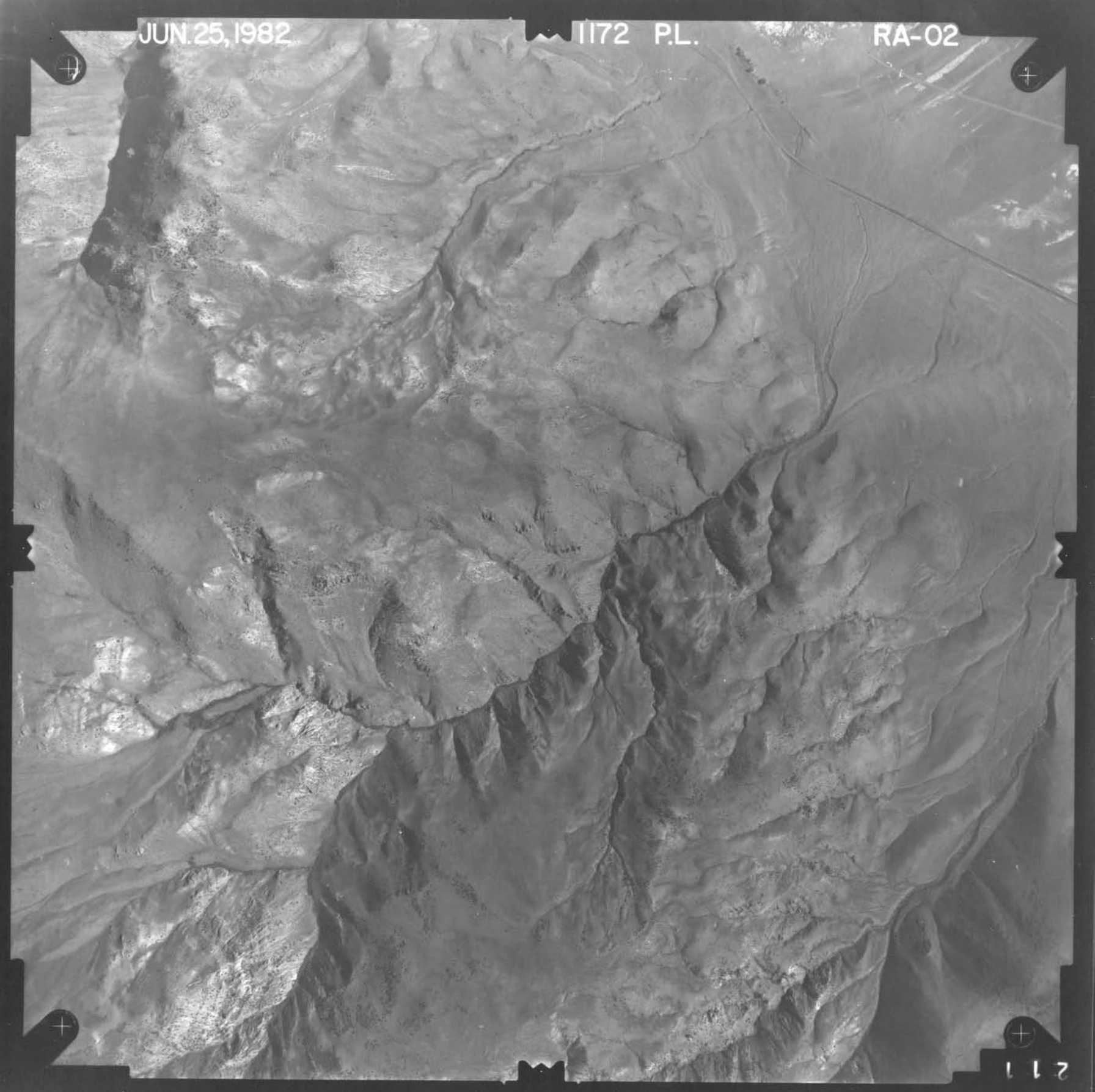
The amount of the check includes $10 to cover the cost of shipping the enlargements via UPS regular ground service. Please ship the enlargements to the above address when completed.

Yours truly,

Dennis S. LaPrairie

Called Aug 2 - will be done towards the end of the week


JUN. 25, 1982
1 : 24,000
1172 P.L.
RA-01
212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RA-02
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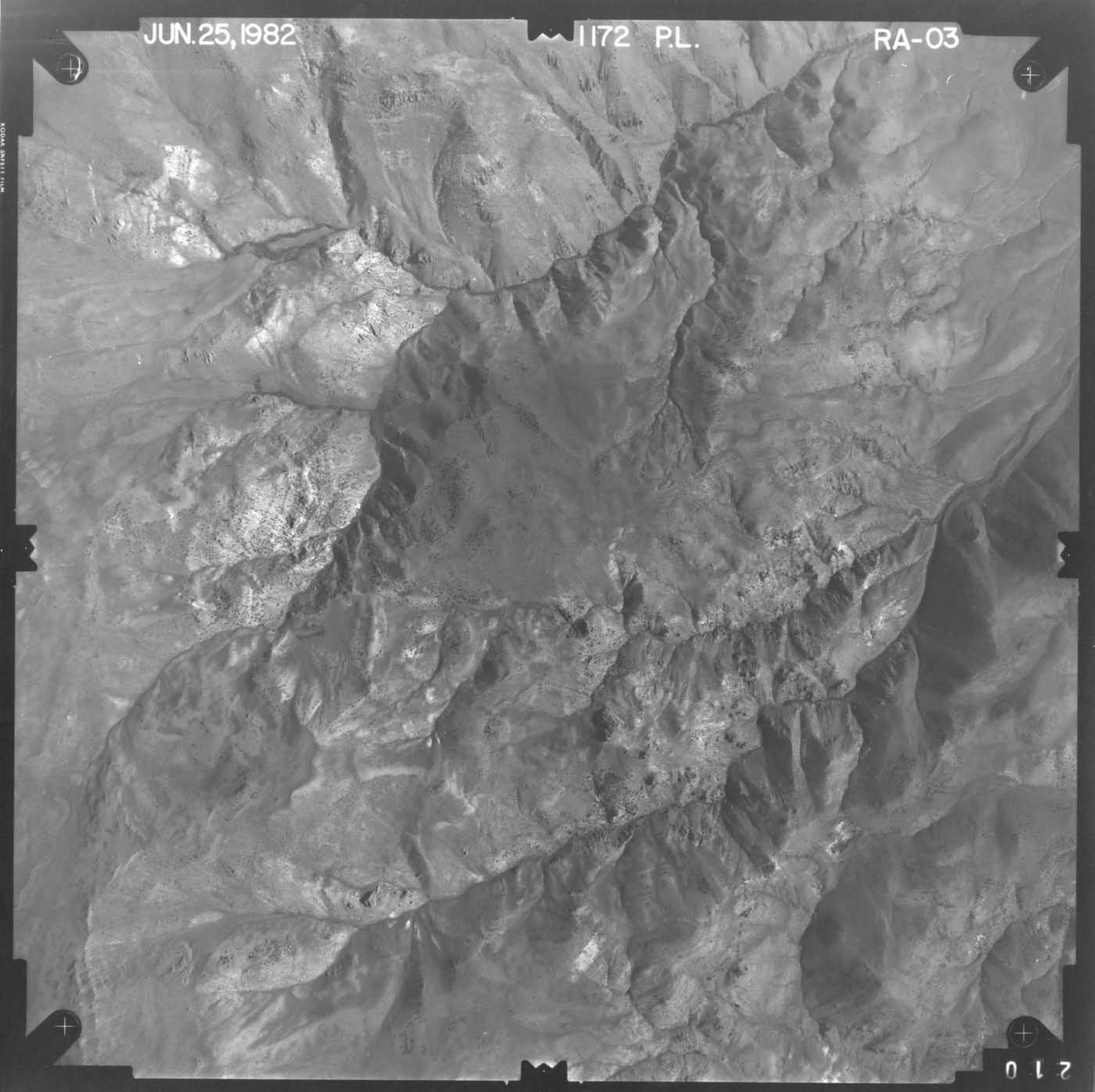
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RA-03
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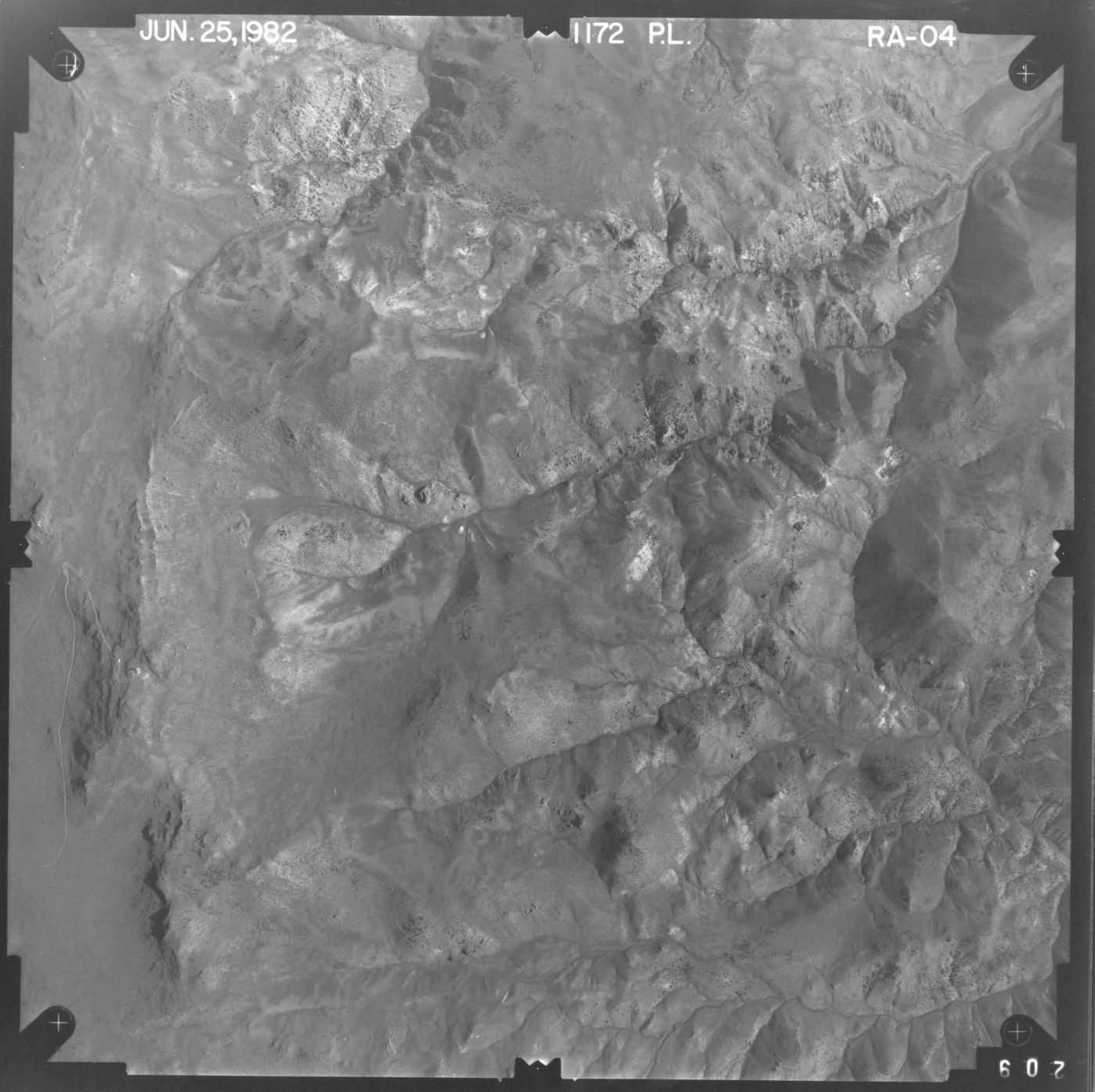
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RA-04
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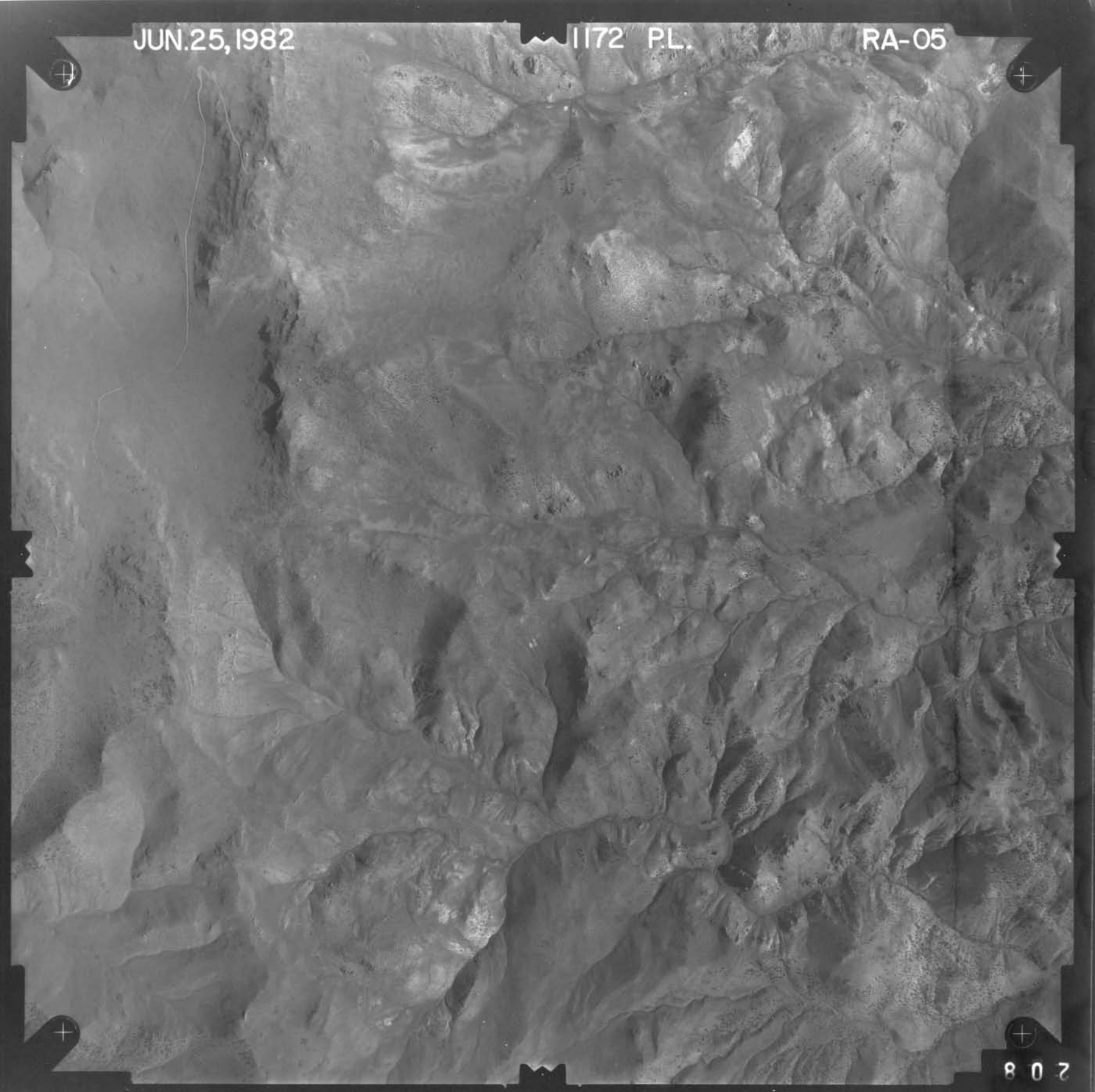
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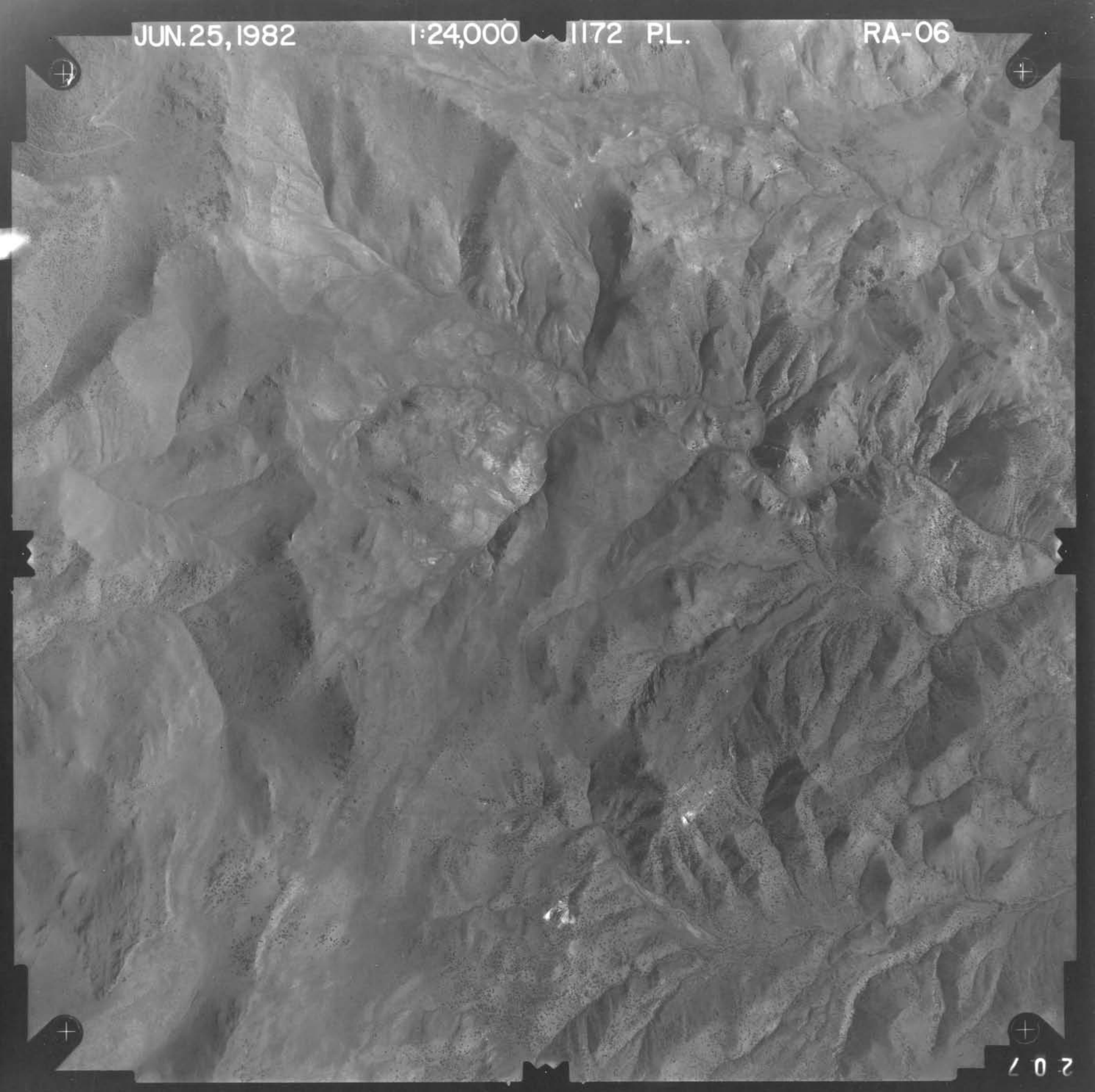
RA-05
807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RA-06
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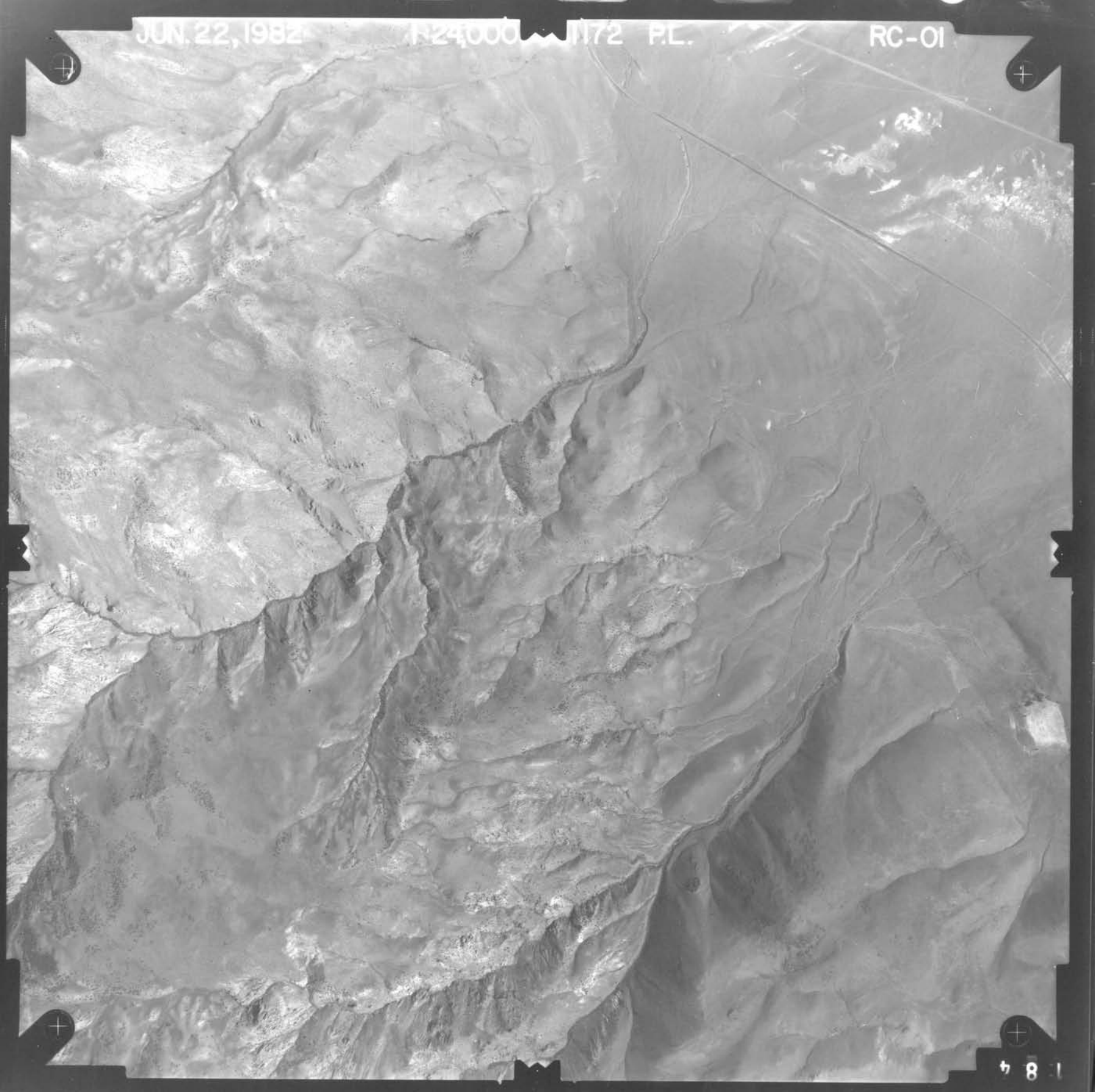
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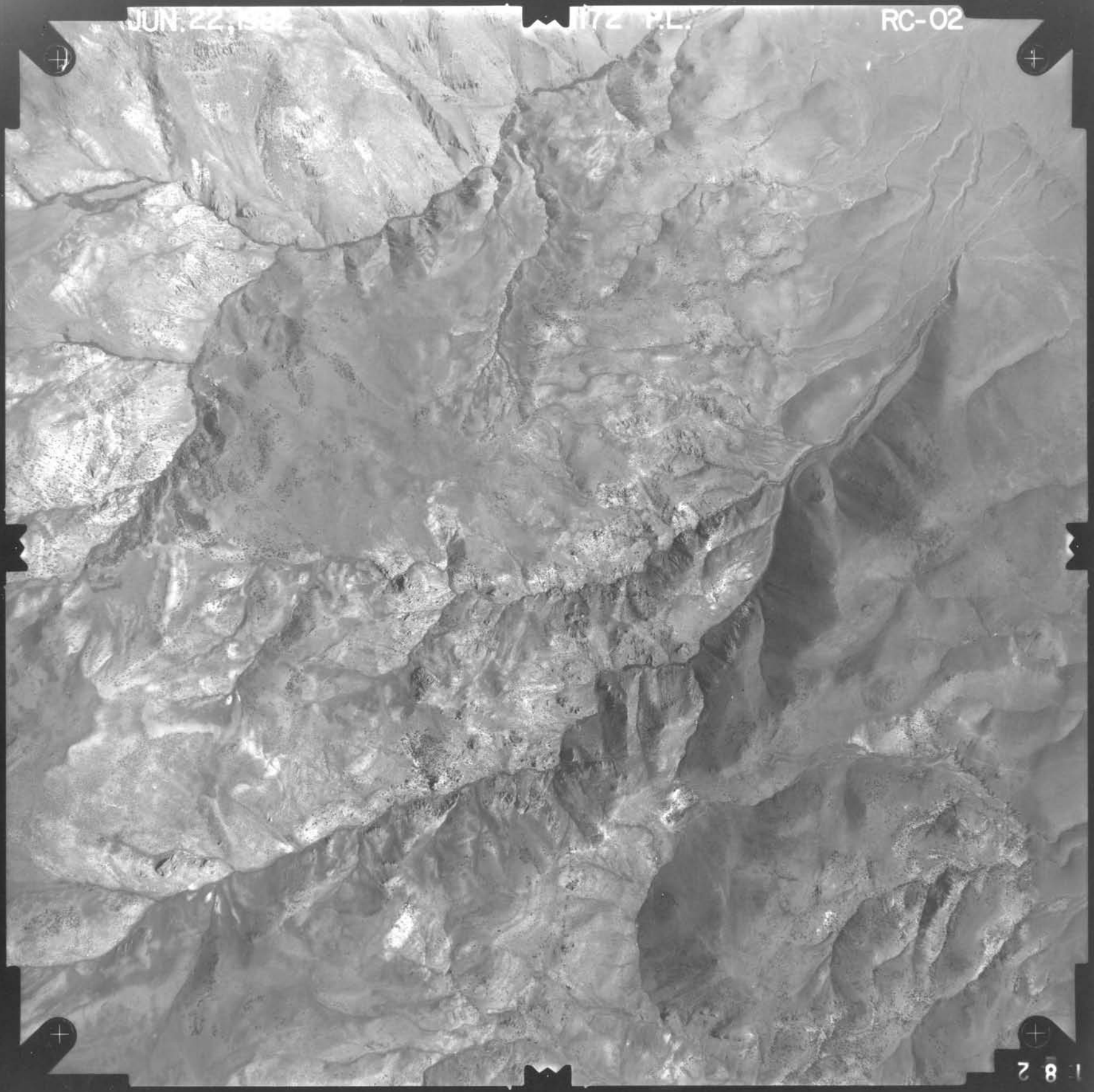
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RC-02
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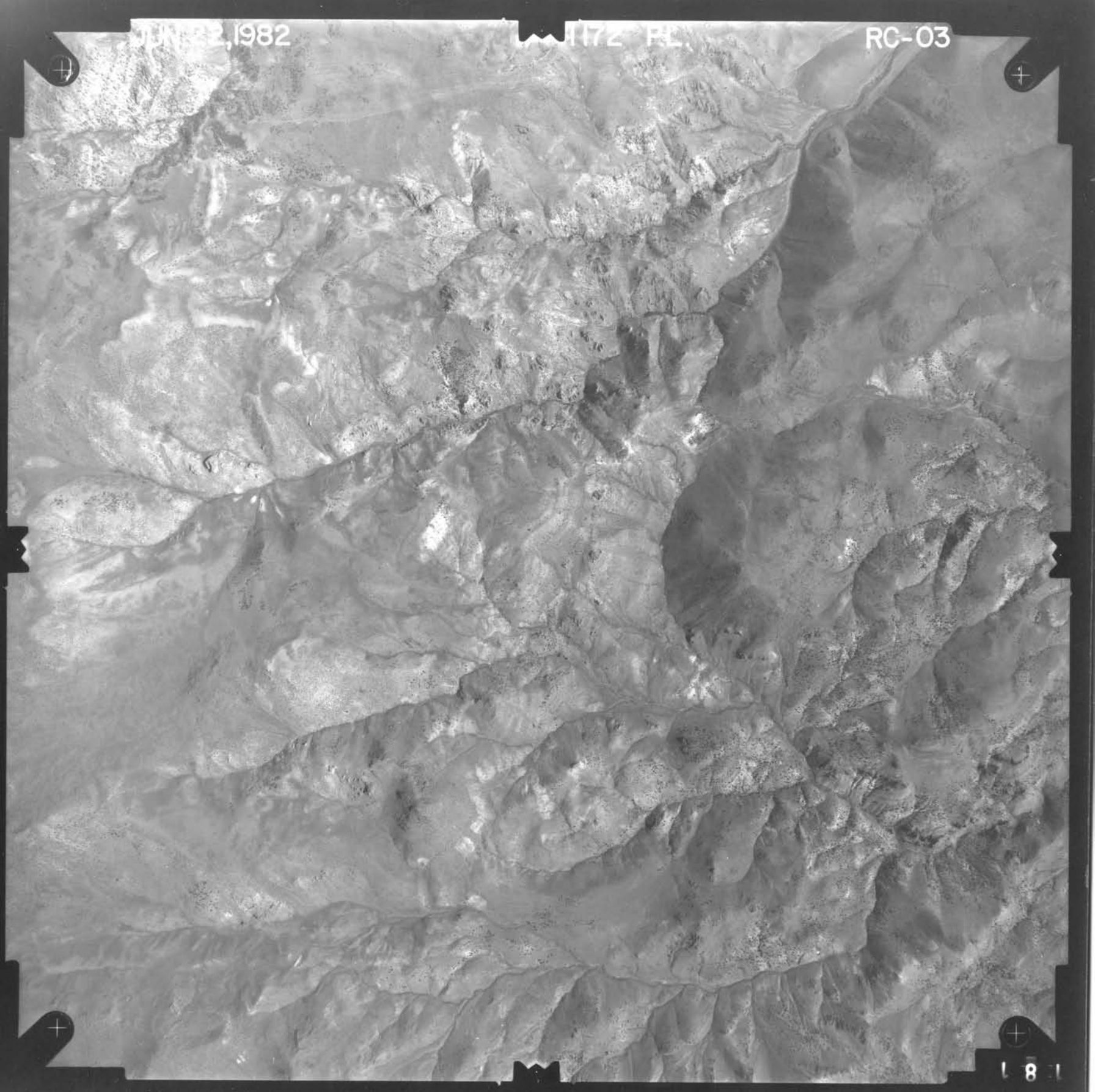
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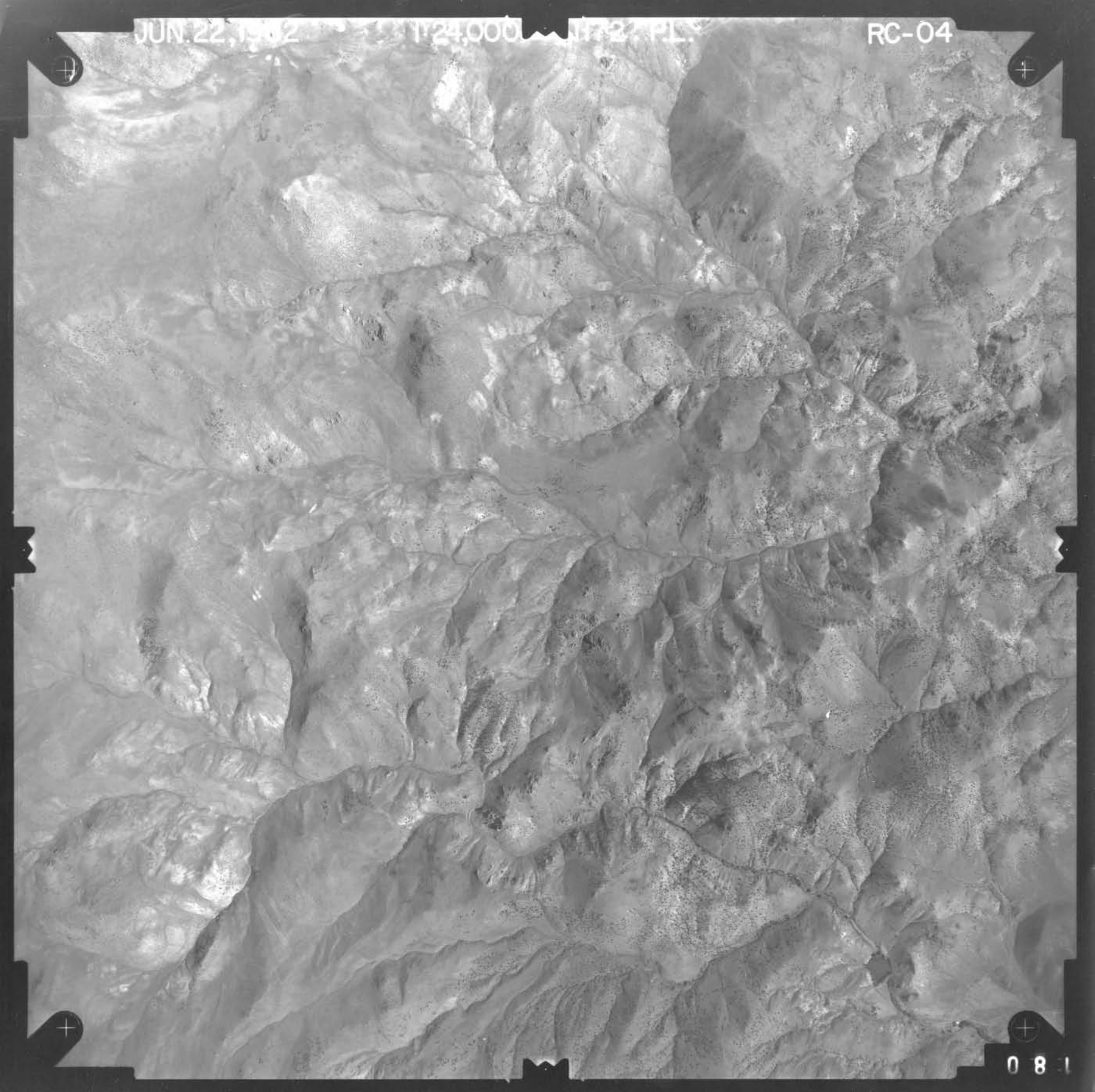
RC-03
8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RC-04
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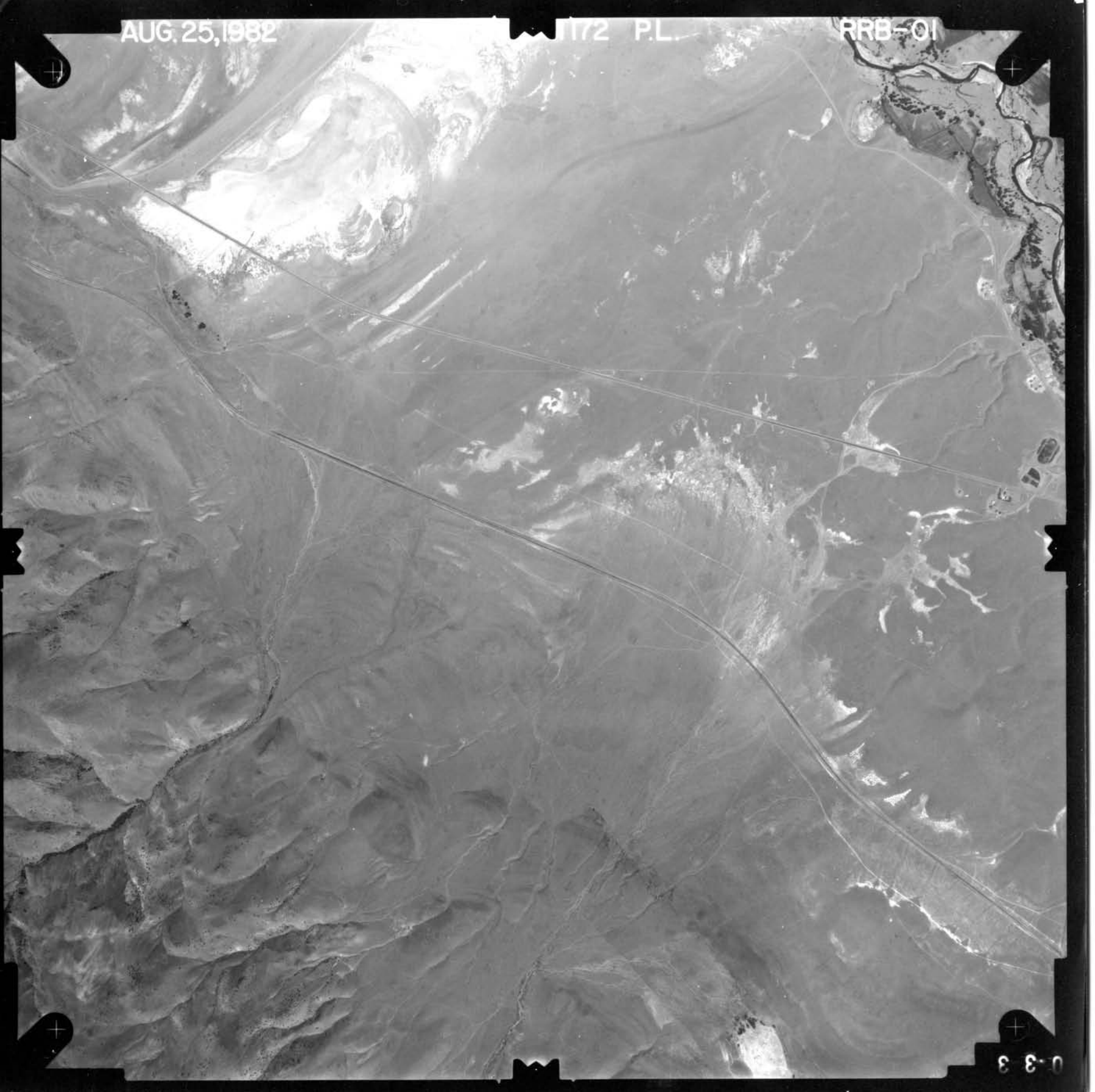
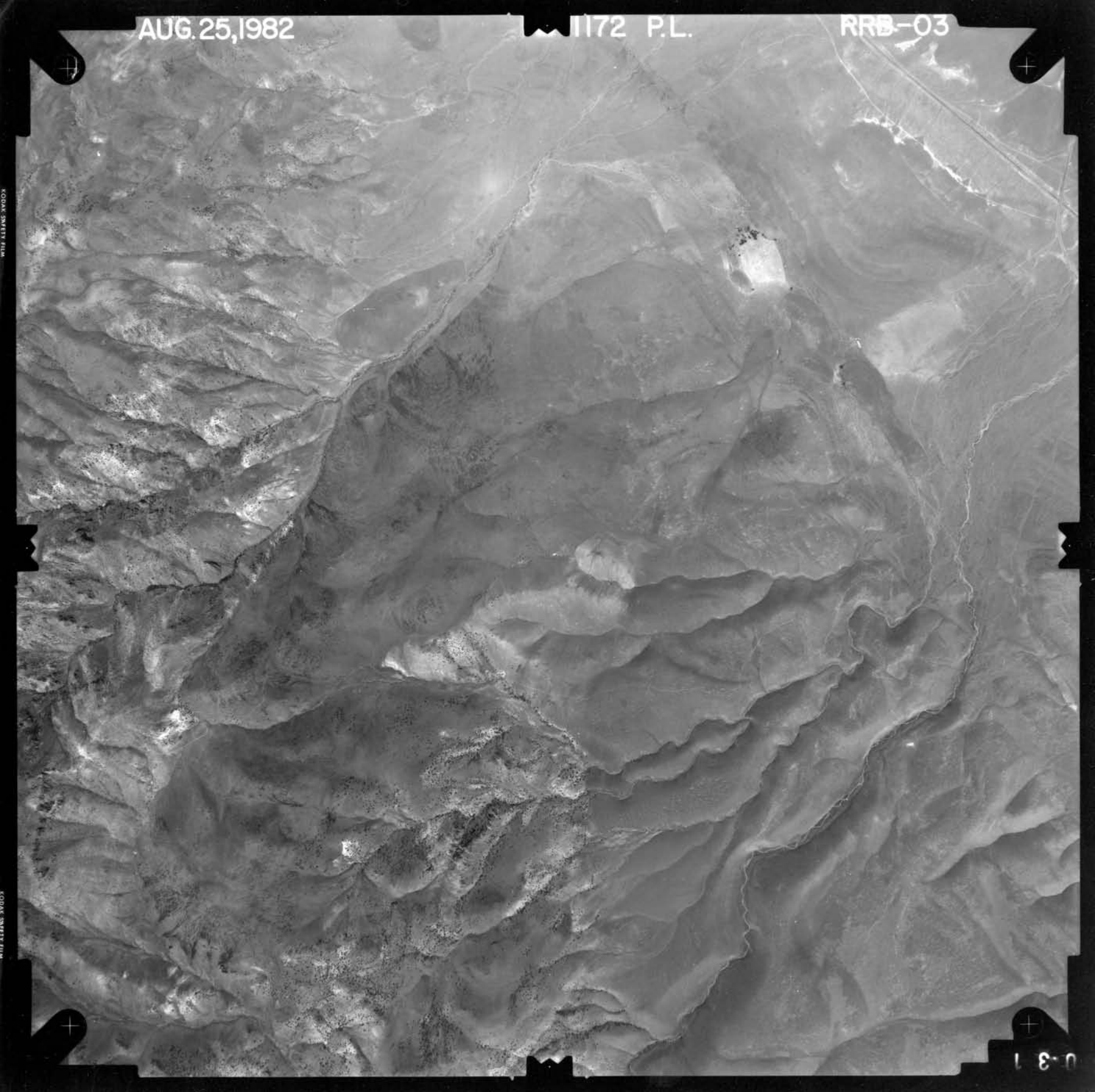

AUG. 25, 1982
1172 P.L.
RRB-01
0-3 3

AUG.25,1982
1172 P.L.
RRB-02
0-3 2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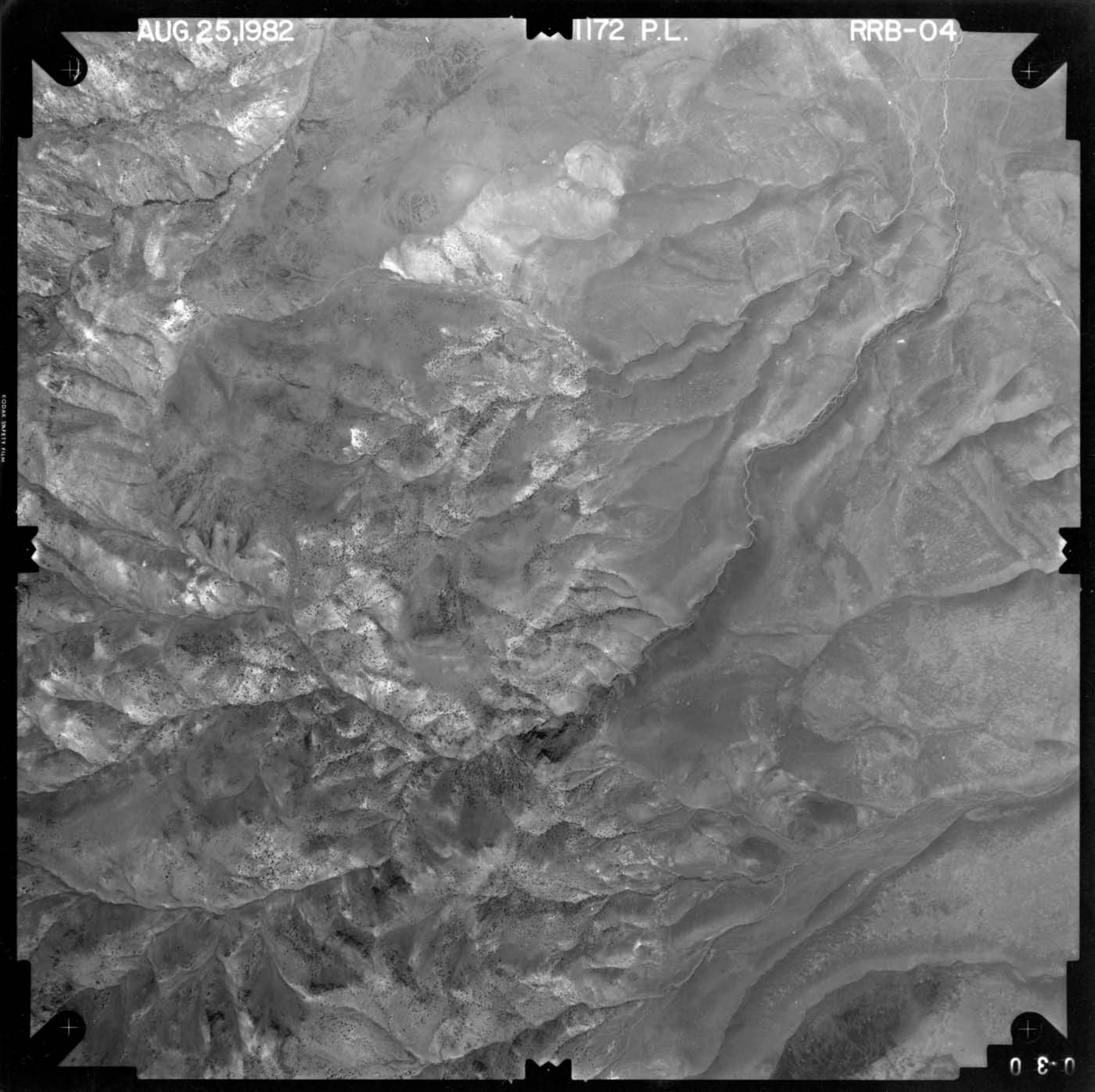
RRB-03
KODAK SAFETY FILM
KODAK SAFETY FILM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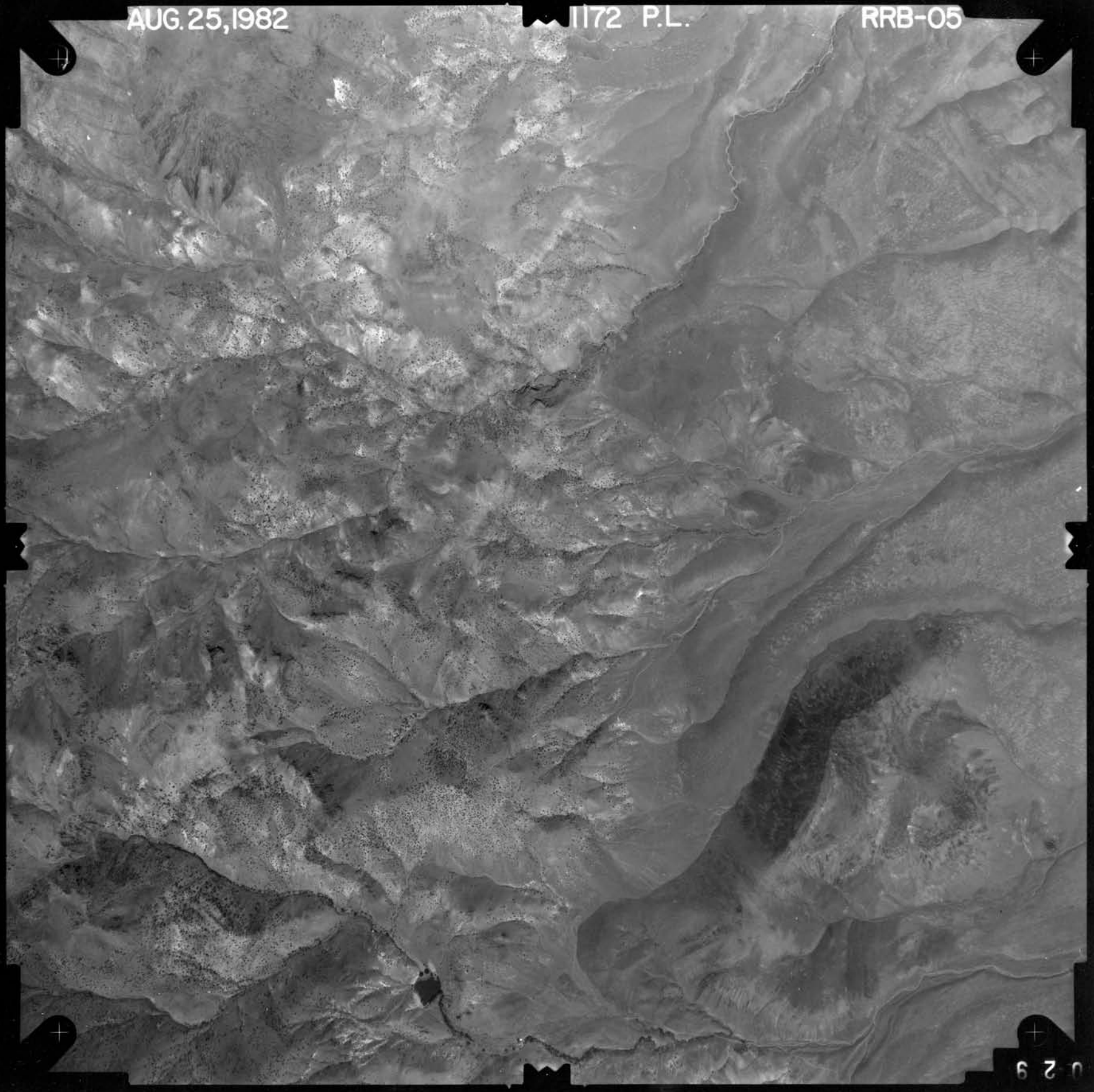
RRB-04
0-30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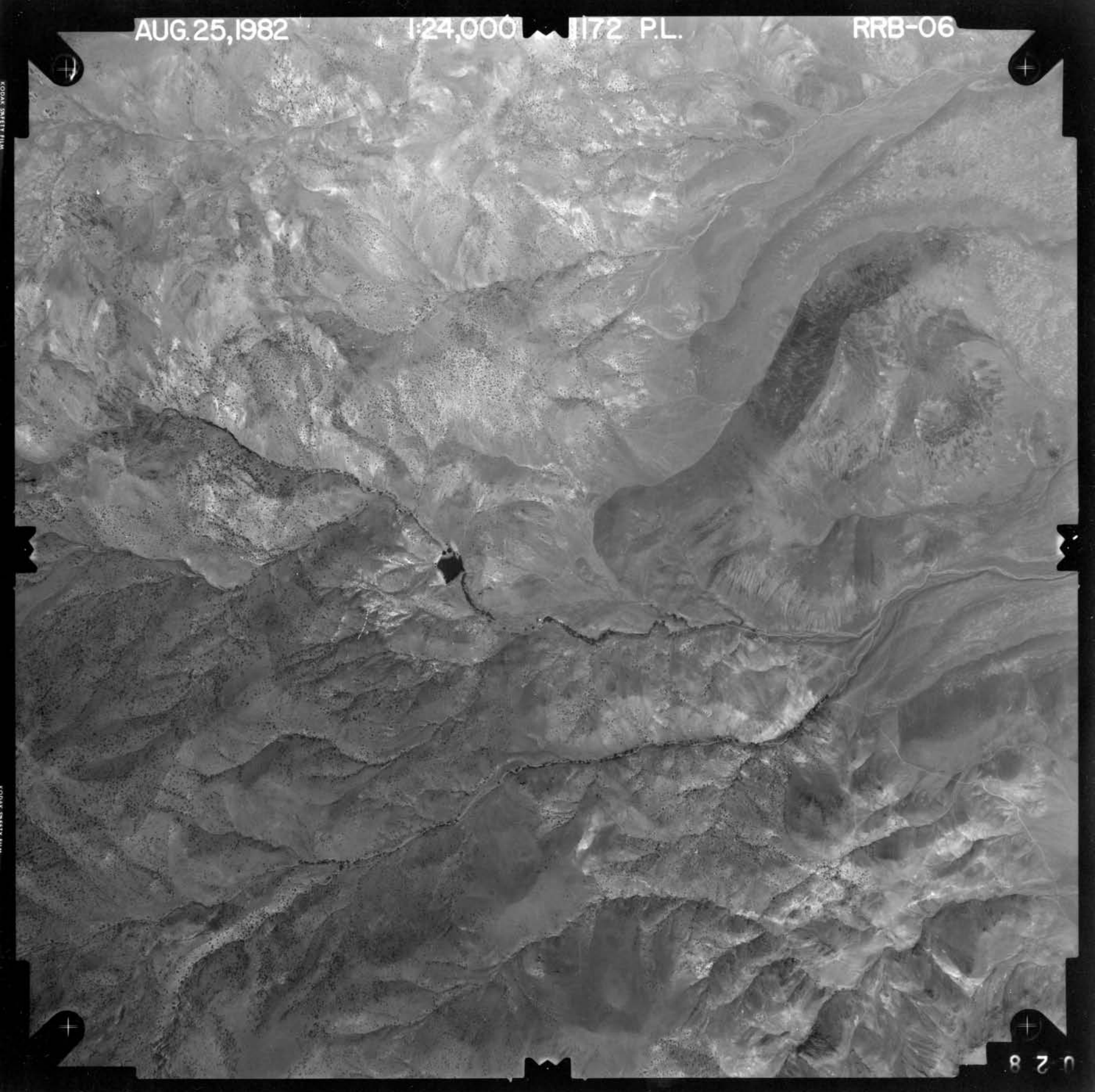
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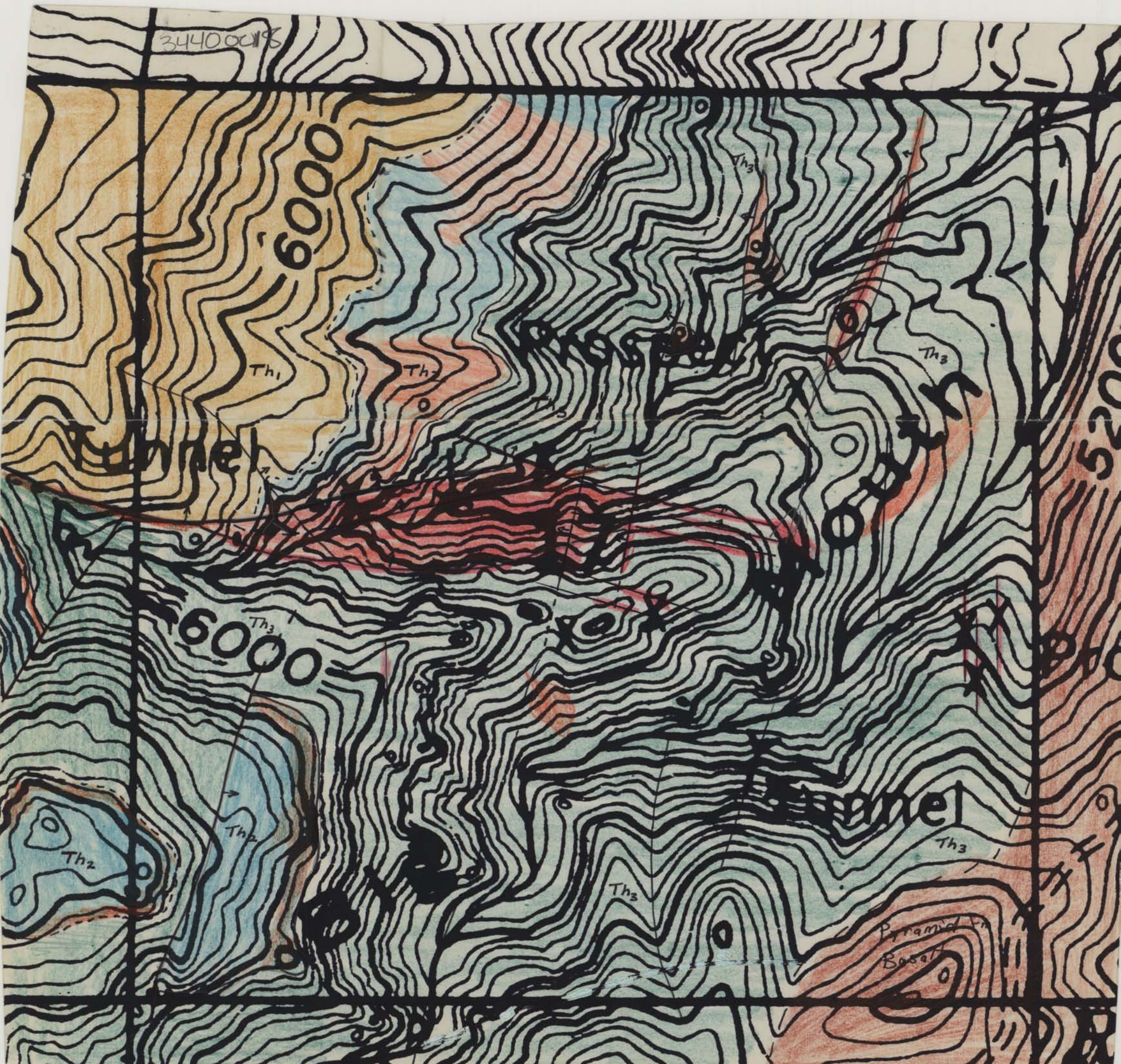
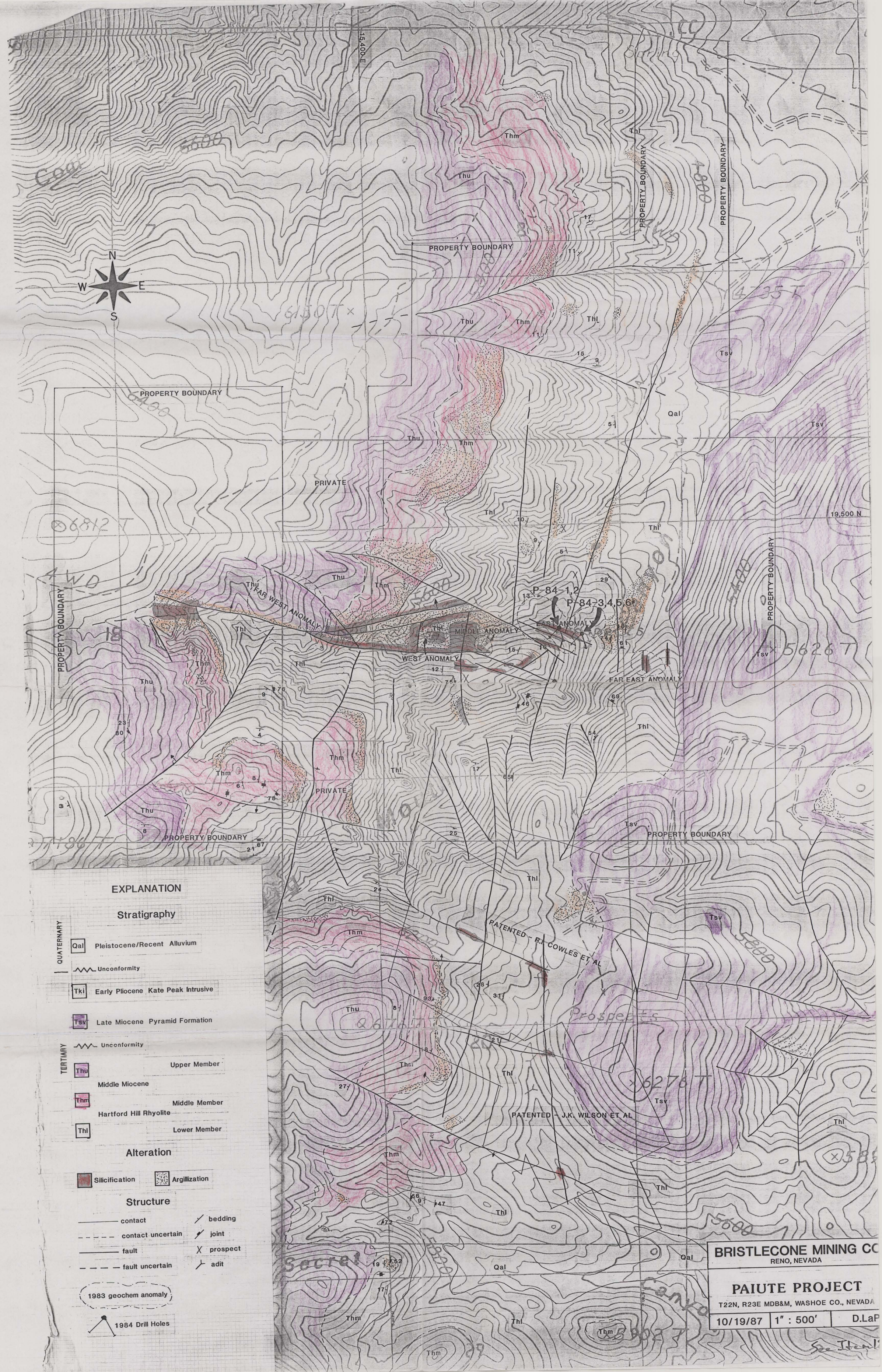
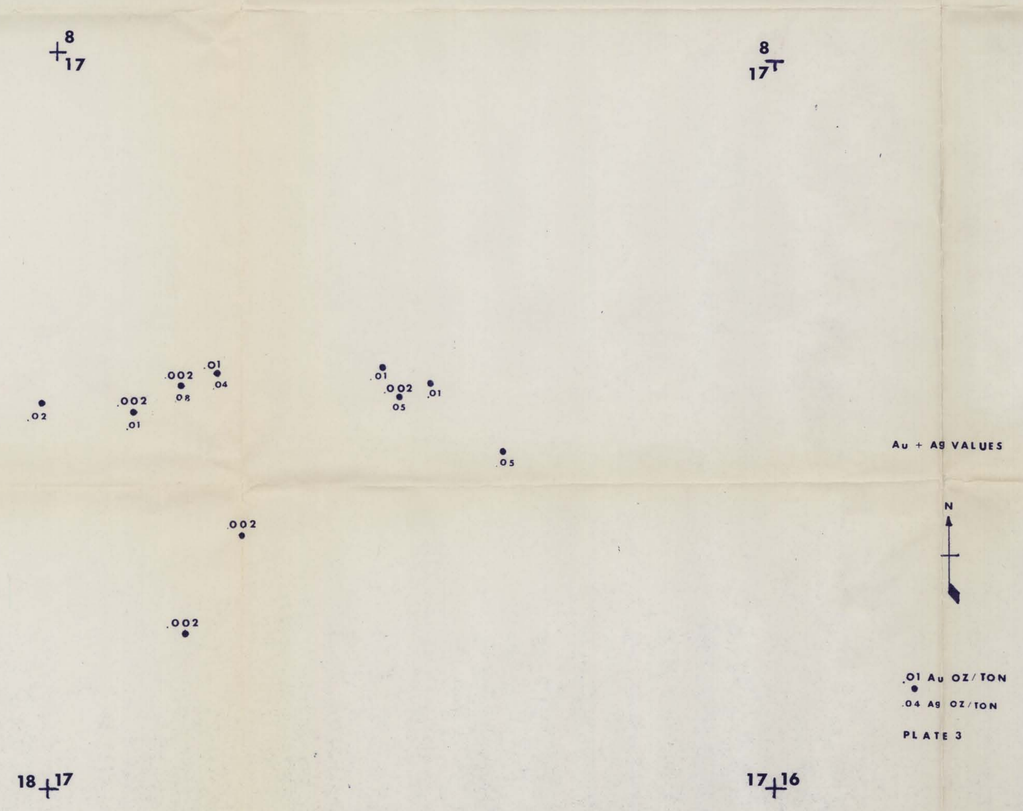

6000
Th1
Th2
Th3
6000
Th3
Th2
Th2
Th3
Th3
Th3
Pyramid Fa
Basalt


N
S
E
W
15,400 E
19,500 N
PROPERTY BOUNDARY
PRIVATE
FAR WEST ANOMALY
WEST ANOMALY
MIDDLE ANOMALY
EAST ANOMALY
FAR EAST ANOMALY
P-84-1,2
P-84-3,4,5,6
PATENTED - R.I. COWLES ET AL
PATENTED - J.K. WILSON ET AL
Thu
Thm
Thl
Tsv
Qal
EXPLANATION
Stratigraphy
QUATERNARY
Qal Pleistocene/Recent Alluvium
Unconformity
Tki Early Pliocene Kate Peak Intrusive
Tsv Late Miocene Pyramid Formation
Unconformity
TERTIARY
Thu Upper Member
Middle Miocene
Thm Middle Member
Hartford Hill Rhyolite
Thl Lower Member
Alteration
Silicification
Argillization
Structure
contact
contact uncertain
fault
fault uncertain
bedding
joint
prospect
adit
1983 geochem anomaly
1984 Drill Holes
BRISTLECONE MINING CO
RENO, NEVADA
PAIUTE PROJECT
T22N, R23E MDB&M, WASHOE CO., NEVADA
10/19/87
1" : 500'
D.LaP



Au + AG VALUES

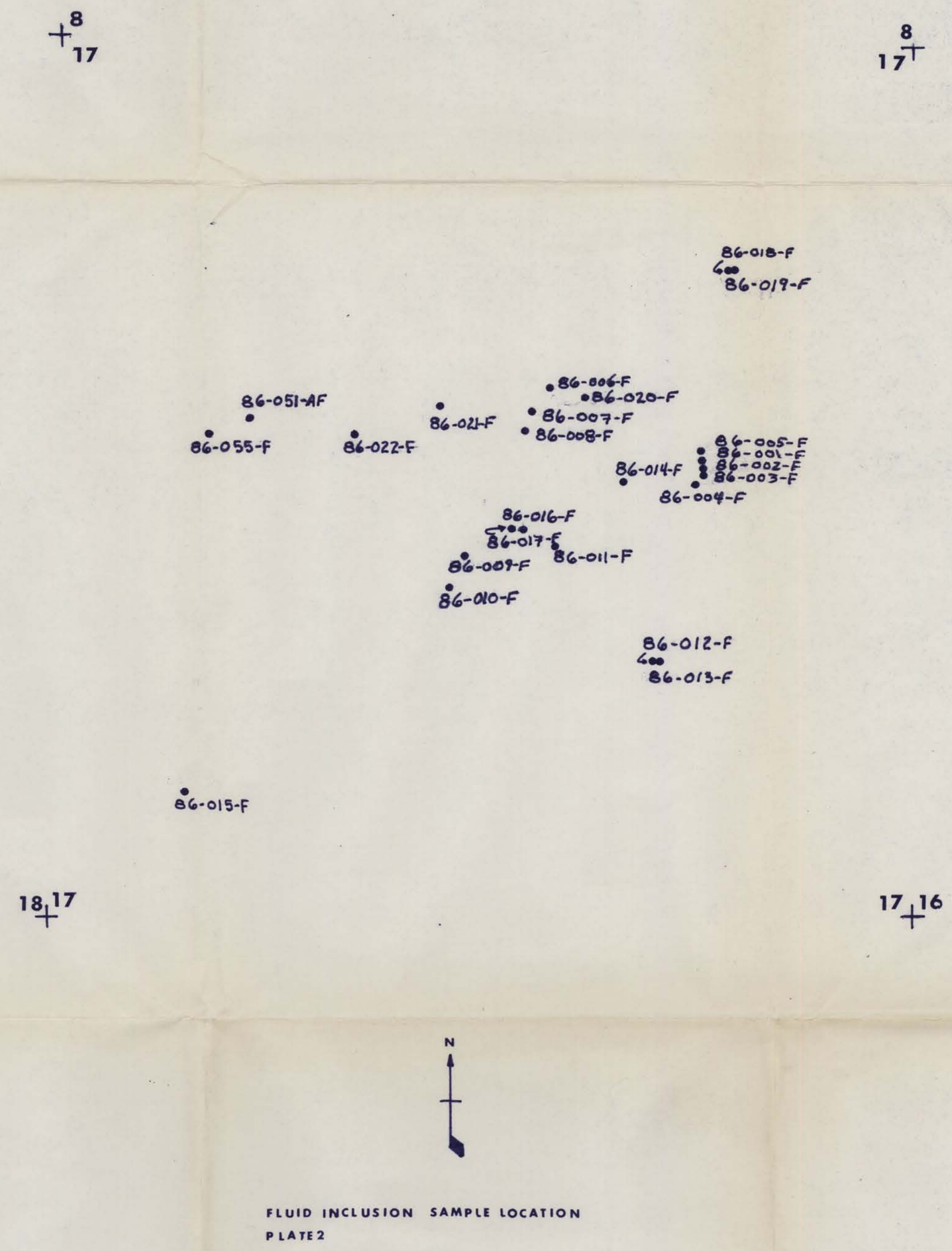
N

.01 Au OZ/TON

.04 AG OZ/TON

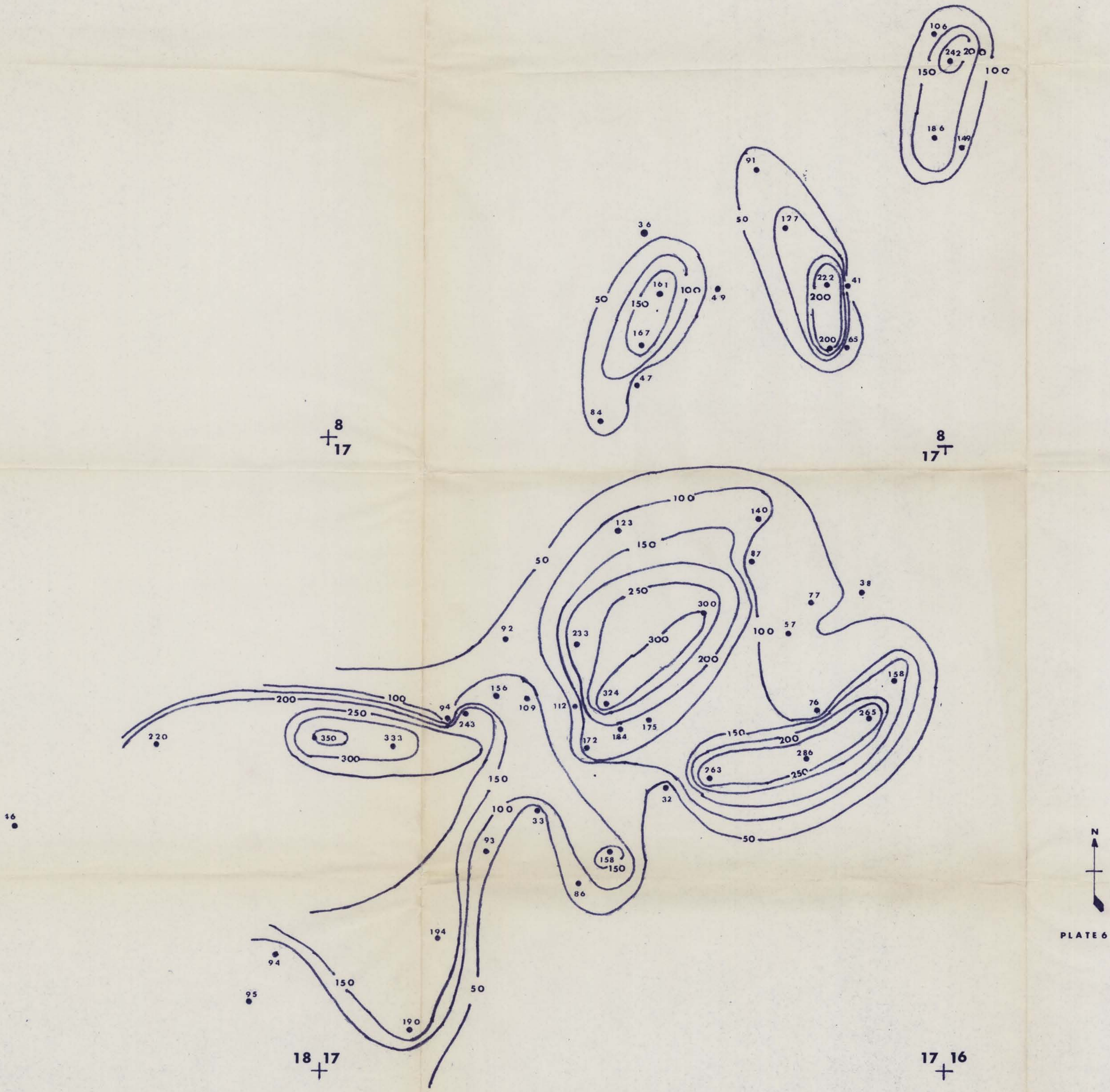
PLATE 3

3440 0018



FLUID INCLUSION SAMPLE LOCATION

PLATE 2


106
242
200
150
100
186
149
91
50
127
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222
41
200
161
100
49
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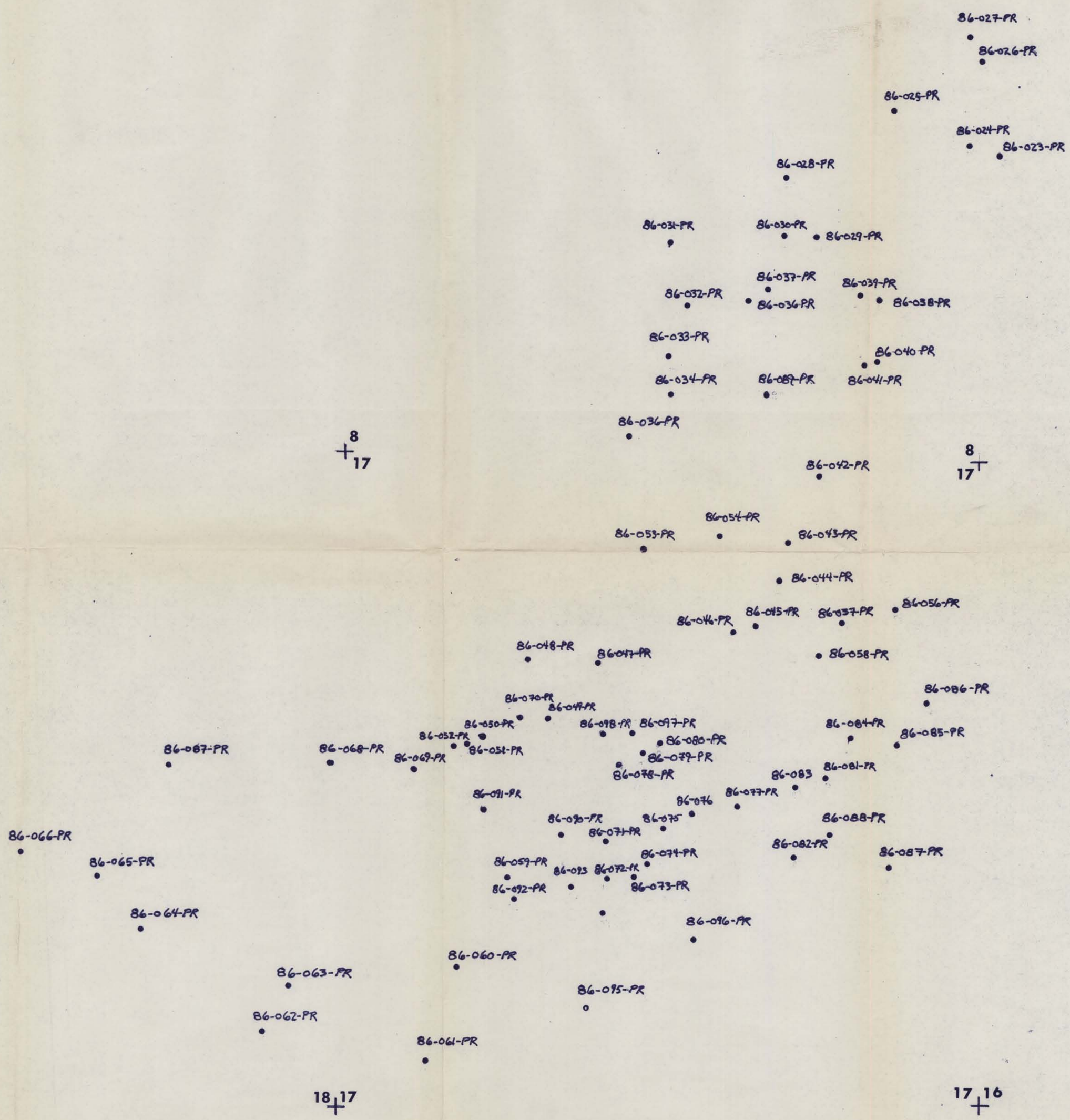
150
167
200
65
47
84
8
17
8
17
100
140
123
150
87
50
38
77
250
300
92
233
300
100
57
200
158
156
324
76
200
100
94
109
112
265
250
243
175
150
220
350
333
184
172
200
286
300
263
250
150
32
46
100
33
50
93
158
150
86
N
194
94
150
95
50
190
PLATE 6
18
17
17
16
Tl x 10^4 / Sr
50 CONTOUR INTERVAL

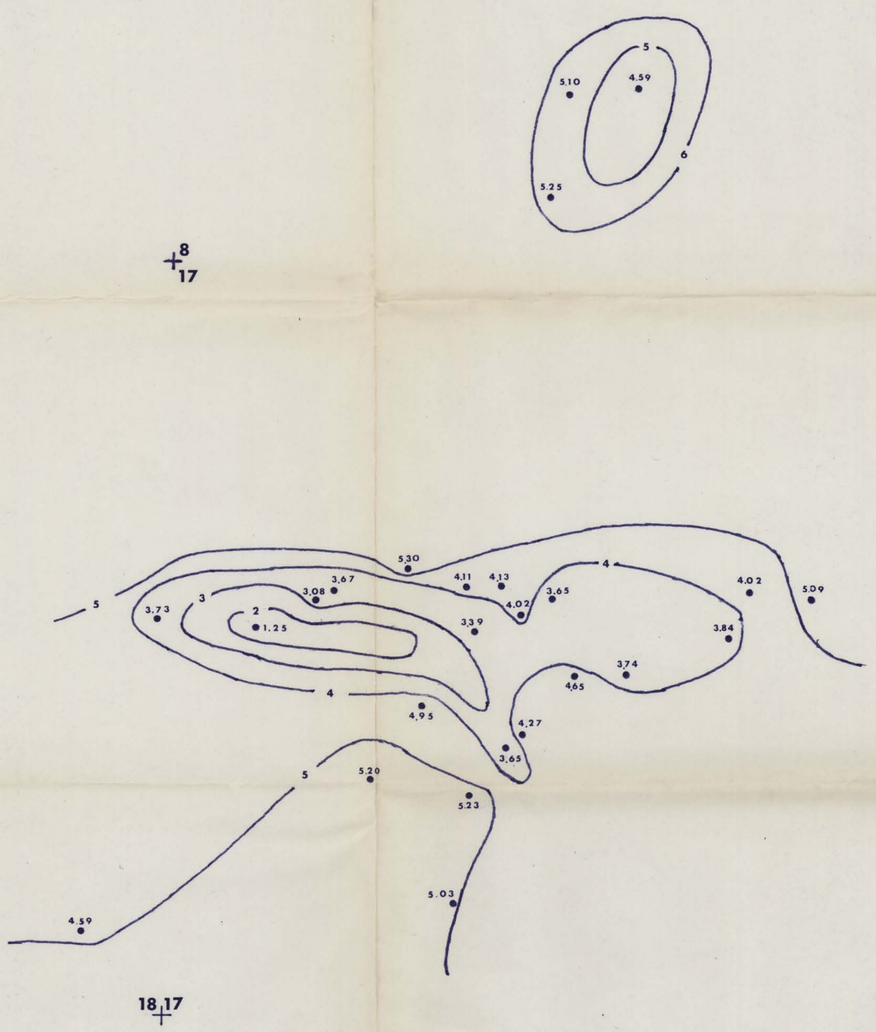
3440 0018



LITHOGEOCHEM SAMPLE LOCATION

PLATE 1

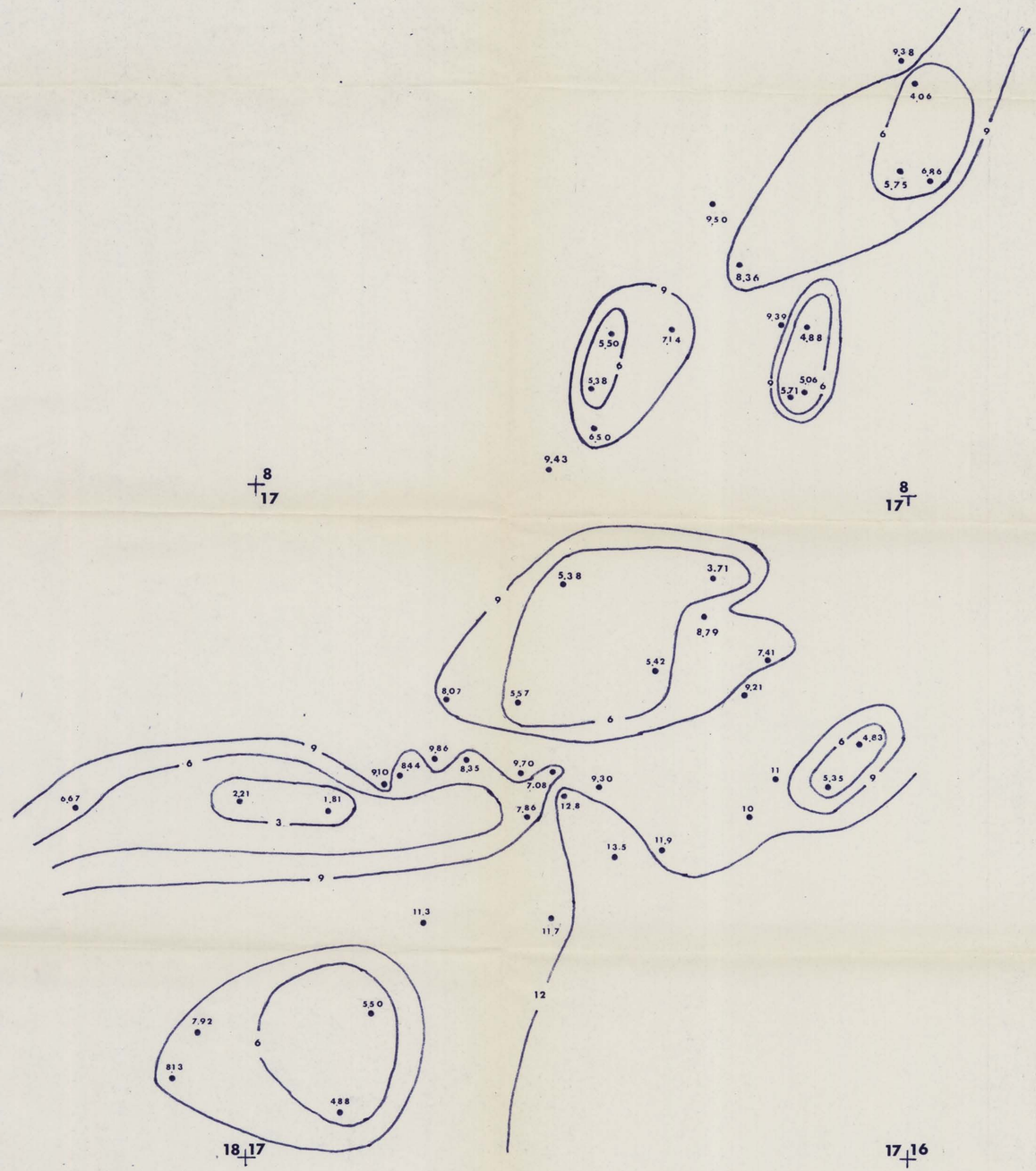
3440 0018



K/Tl x 10^4 RATIO
1 CONTOUR INTERVAL

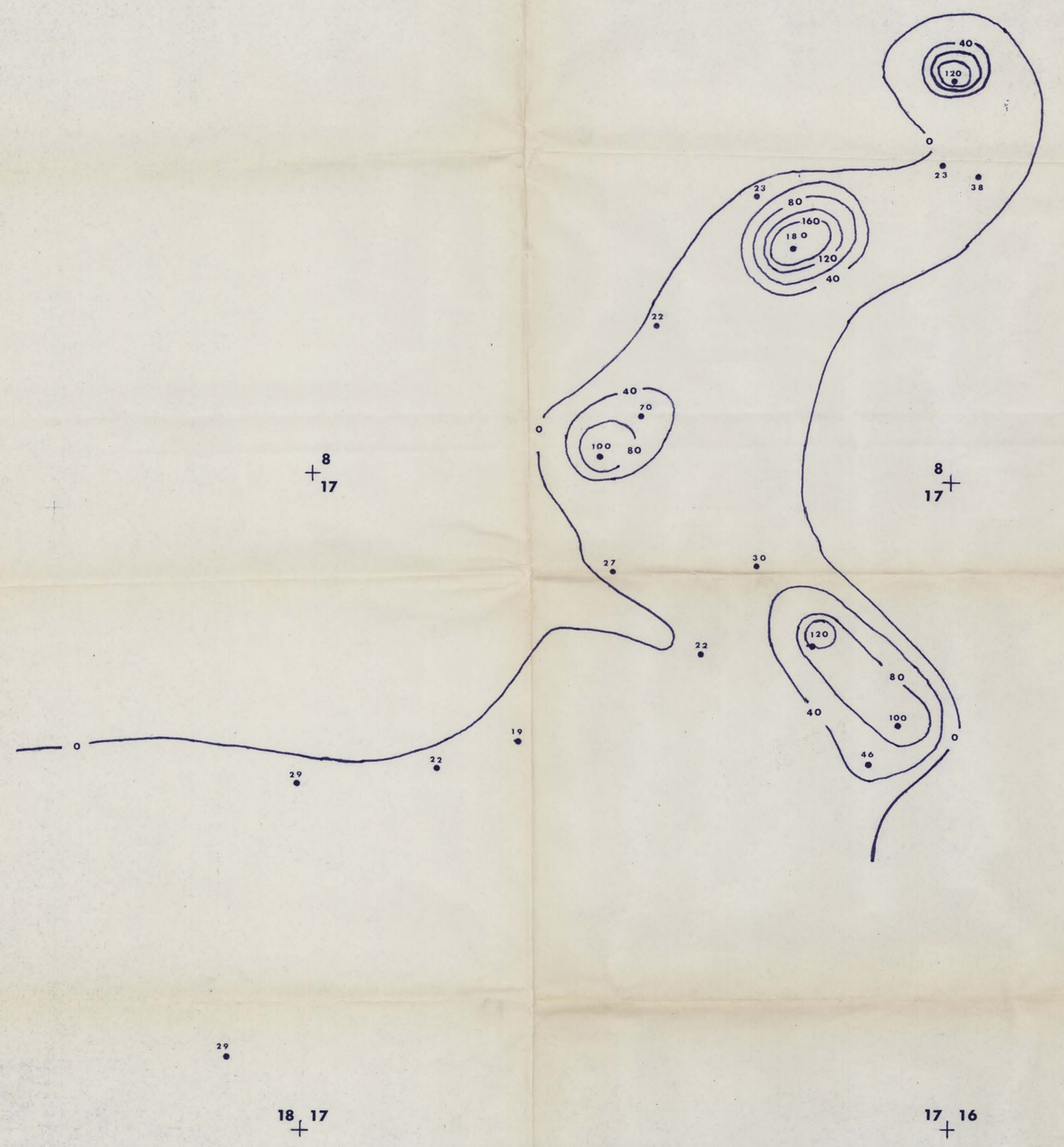
N

PLATE 5



Ba/Tl x 10^2
3 CONTOUR INTERVAL

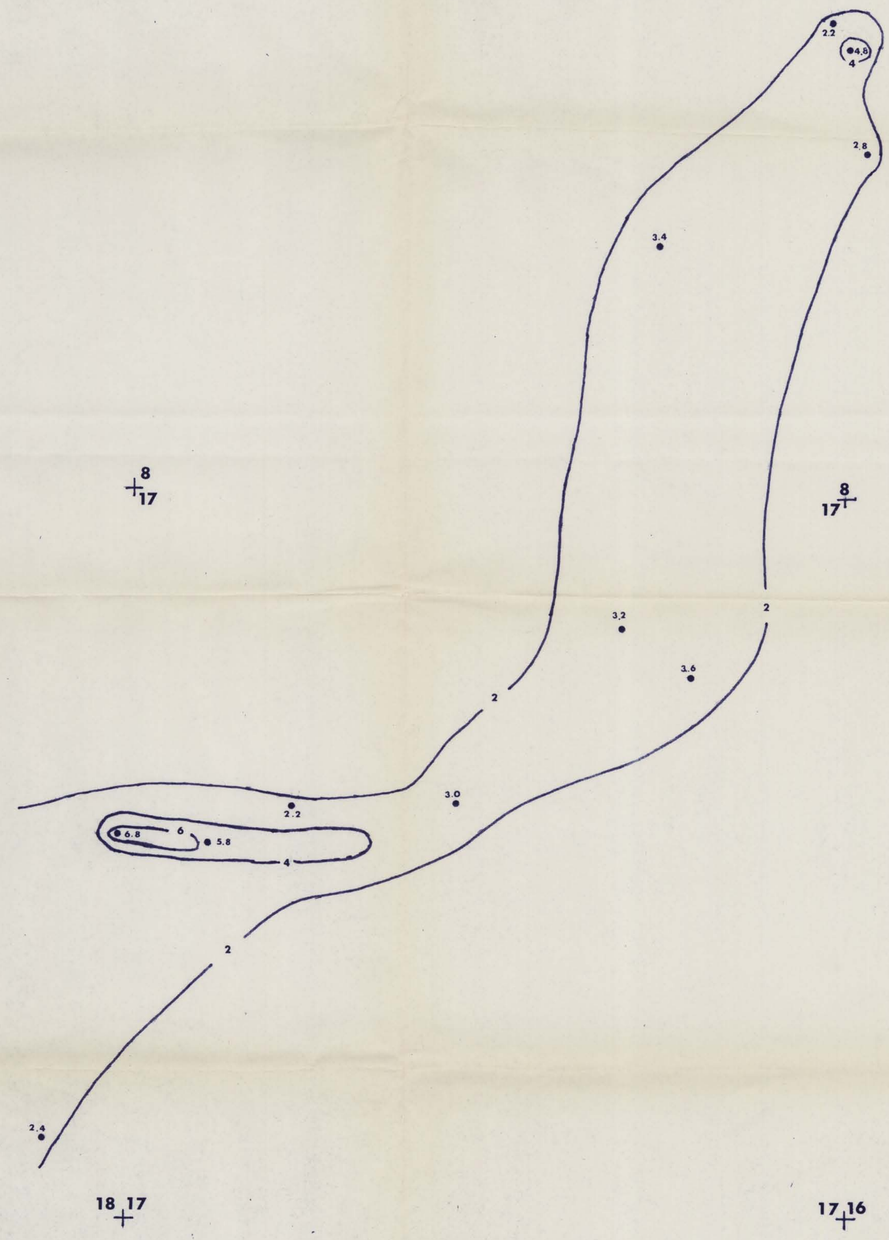
3440 0018



As
4·0 ppm CONTOUR

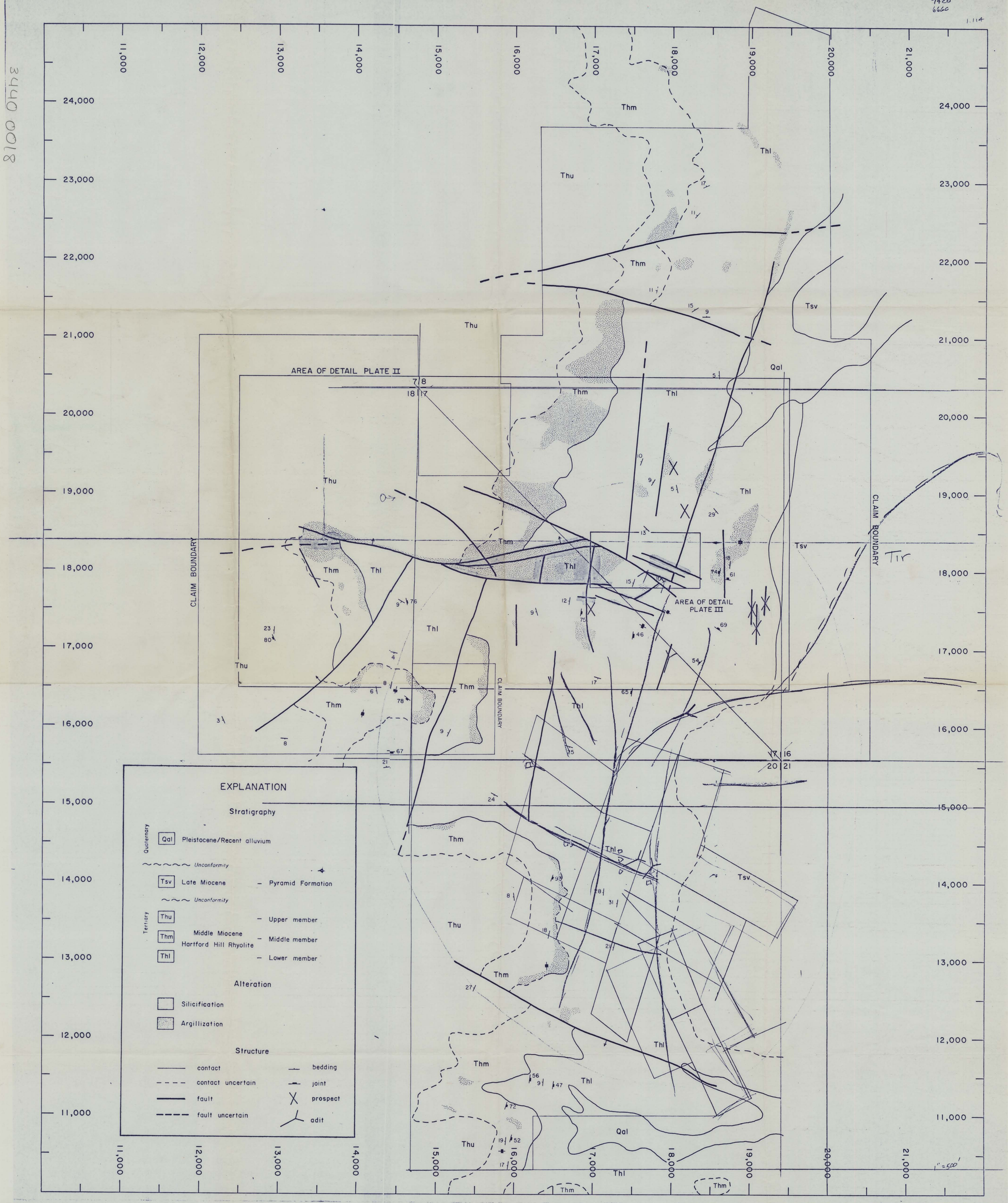
N

PLATE 4



Sb
2 ppm CONTOUR

3440 0018



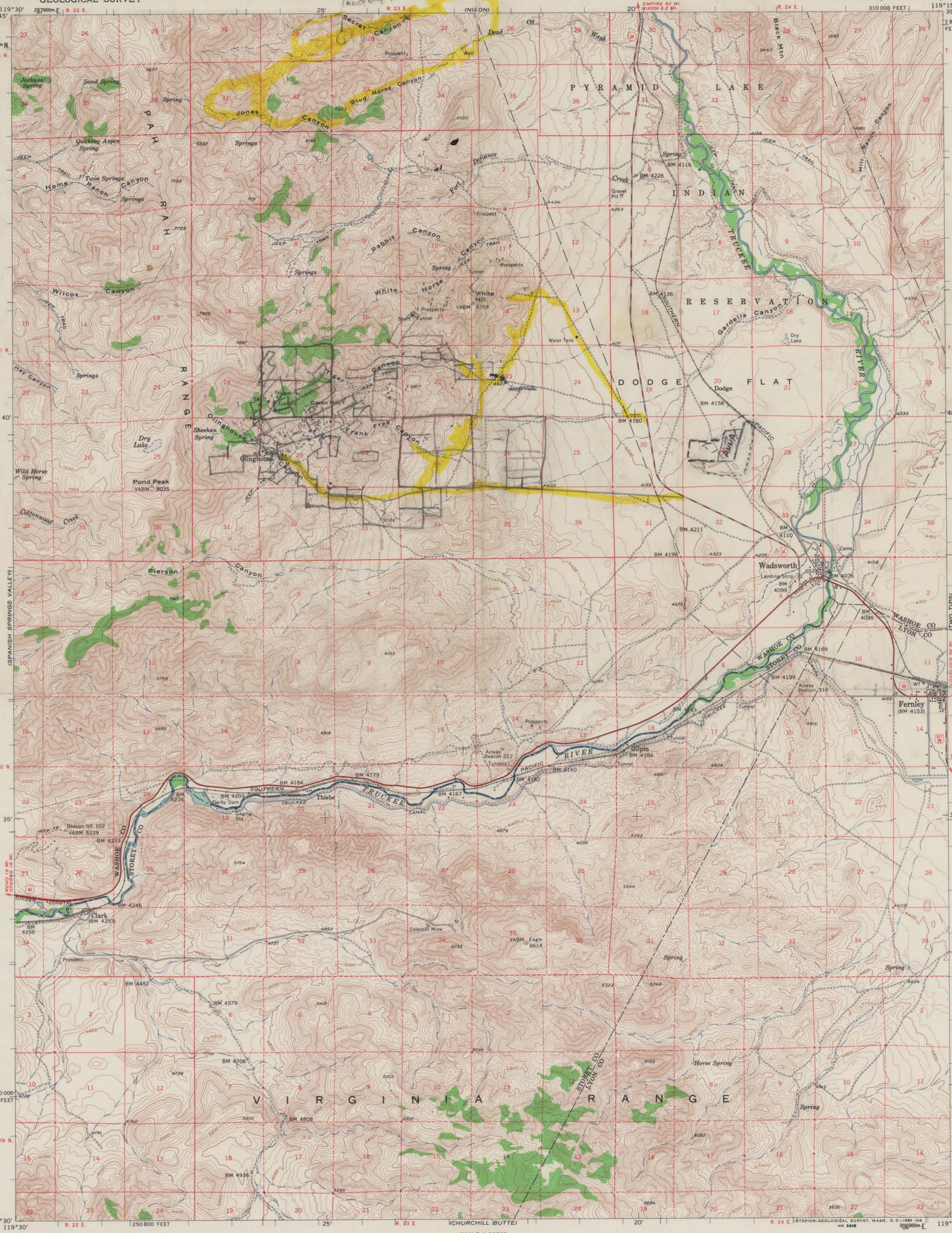
DENISON MINES (U.S.) INC.
DENVER, COLORADO

GEOLOGY

Project Name: PAIUTE T22N, R23E DN24		
Geology: D. FORSBERG	Date: 8/31/83	Drawn by: E.J.K.
Approved by: P.E.K.	Date: 8/31/83	Drawing No: 1

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

WADSWORTH QUADRANGLE
NEVADA
15 MINUTE SERIES (TOPOGRAPHIC)



Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography from aerial photographs by multiplex methods
Aerial photographs taken 1954. Field check 1957

Polyconic projection. 1927 North American datum
10,000-foot grid based on Nevada coordinate system, west zone
1000-meter Universal Transverse Mercator grid ticks, zone 11, shown in blue

Dashed land lines indicate approximate locations

Unchecked elevations are shown in brown

TRUE NORTH
MAGNETIC NORTH
17½°
APPROXIMATE MEAN DECLINATION, 1957

SCALE 1:62500

1 ½ 0 1 2 3 4 MILES

3000 0 3000 6000 9000 12000 15000 18000 21000 FEET

1 .5 0 1 2 3 4 5 KILOMETERS

CONTOUR INTERVAL 40 FEET
DOTTED LINES REPRESENT 20-FOOT CONTOURS
DATUM IS MEAN SEA LEVEL

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER 25, COLORADO OR WASHINGTON 25, D. C.
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

NEVADA
QUADRANGLE LOCATION

ROAD CLASSIFICATION

Heavy-duty — Light-duty
Medium-duty — Unimproved dirt
U. S. Route — State Route

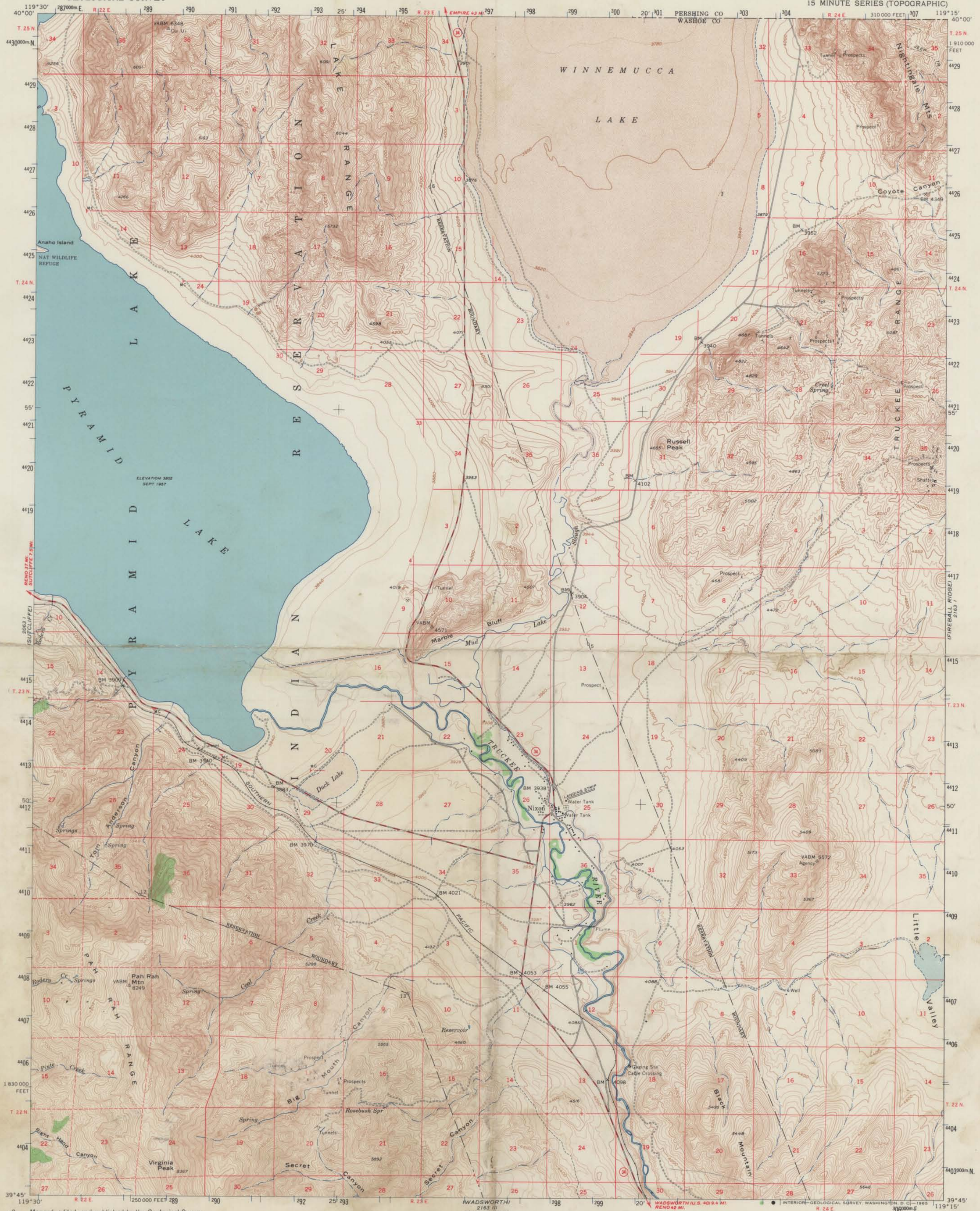
WADSWORTH, NEV.
N3930—W11915/15

1957

3440 0018

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

NIXON QUADRANGLE
NEVADA – WASHOE CO.
15 MINUTE SERIES (TOPOGRAPHIC)



Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography from aerial photographs by multiplex methods
Aerial photographs taken 1954. Field check 1957

Polyconic projection. 1927 North American datum
10,000-foot grid based on Nevada coordinate system, west zone
1000-meter Universal Transverse Mercator grid ticks, zone 11, shown in blue

Dashed land lines indicate approximate locations

Unchecked elevations are shown in brown

UTM GRID AND 1957 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:62500

CONTOUR INTERVAL 40 FEET
DOTTED LINES REPRESENT 20-FOOT CONTOURS
DATUM IS MEAN SEA LEVEL

ROAD CLASSIFICATION
Medium-duty — Light-duty —
Unimproved dirt
State Route

QUADRANGLE LOCATION

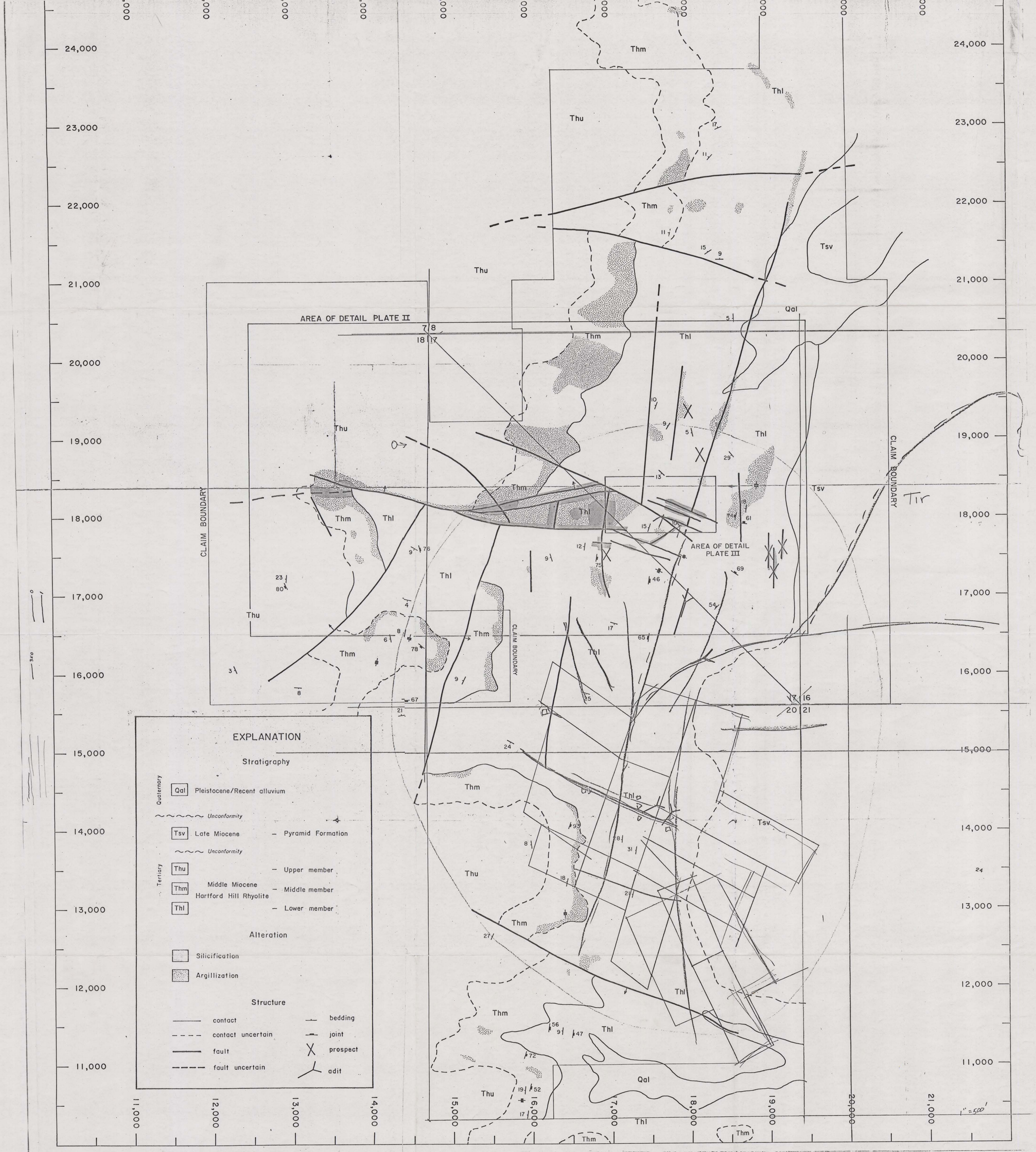
THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER 25, COLORADO OR WASHINGTON 25, D. C.
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

NIXON, NEV.
N3945—W11915/15

1957

AMS 2163 IV—SERIES V796

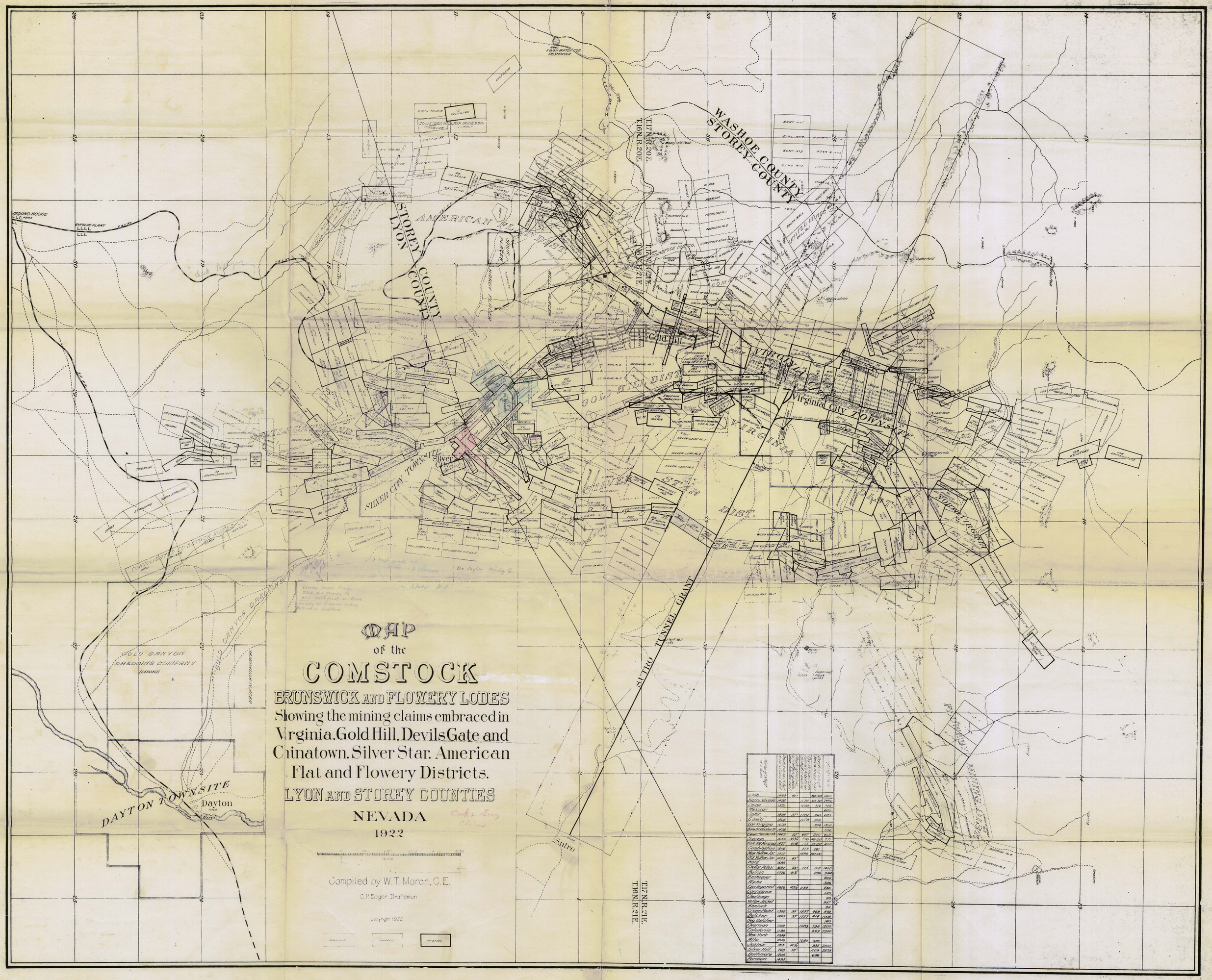
3440 0018



DENISON MINES (U.S.) INC.
DENVER, COLORADO

3440 0018

GEOLOGY

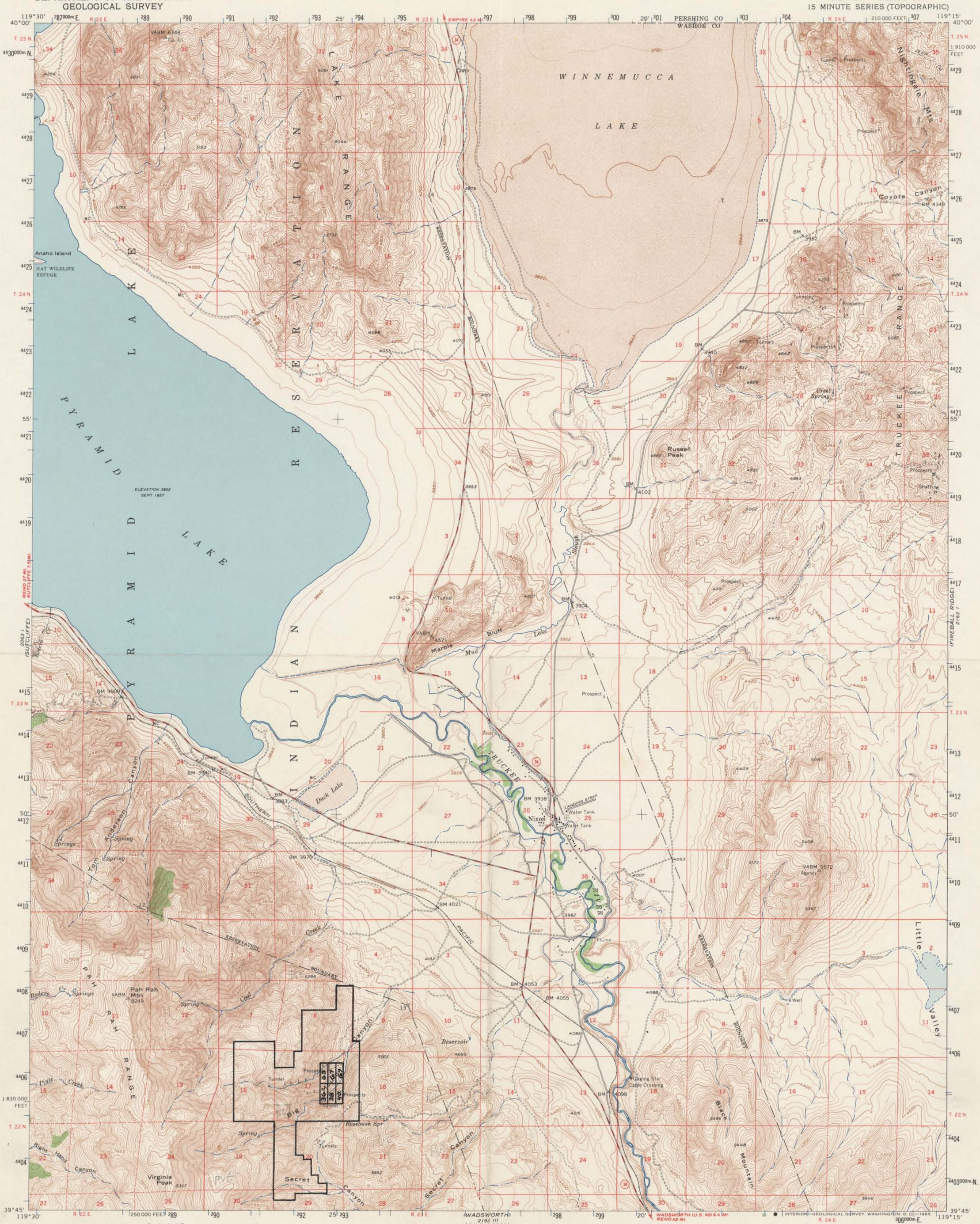


Name of Mine	Length	Width	Depth	Ounces Gold	Ounces Silver	Year of Discovery
Utah	1465	46°		199,308	1800	
Sierra Nevada	1485		1055	163,320	2940	
Union	1531		1055	534	726	
Mexican					650	
Gator	1596	37°	1081	240	676	
Gould & C.	1505		1079	336		
Con Virginia	1639			238	1310	
Bonanza	1458				576	
Ophir	1661	55°	687	200	613	
Savage	1650	39½	776	46,208	771	
Hale and Norcross	1671	45°	772	31,320	400	
Combination	1696		773	280		
New Yellow Jac	1512		1080	347,457		
Old Yellow Jac	1423	45°				
Hard	1585					
Gould & Curry	1697	85°	775	169	1400	
Bullion	1776	41½		276	940	
Exchequer					400	
Alpha					306	
Con Imperial	1626	65½	1184		465	
Confidence					130	
Challenge					90	
Yellow Jacket					957	
Kentuck					93	
Crown Point	1368	38°	1057	662	542	
Belcher	1483	35°	1057	814	1008	
Sag Belcher					160	
Chollar	1193		1082	326	1200	
Caledonia	1138			499	2200	
New York	1069					
Alta	1016		1084	835		
Justice	914	65½		355	200	
Silver Hill	763	38°		1108	2672	
Baltimore	1205			686		
Kentucky	1065					

3440'0018

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

NIXON QUADRANGLE
NEVADA – WASHOE CO.
15 MINUTE SERIES (TOPOGRAPHIC)



Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography from aerial photographs by multiplex methods
Aerial photographs taken 1954. Field check 1957

Polyconic projection. 1927 North American datum
10,000-foot grid based on Nevada coordinate system, west zone
1000-meter Universal Transverse Mercator grid ticks,
zone 11, shown in blue

Dashed land lines indicate approximate locations

Unchecked elevations are shown in brown

UTM GRID AND 1957 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:62500

CONTOUR INTERVAL 40 FEET
DOTTED LINES REPRESENT 20-FOOT CONTOURS
DATUM IS MEAN SEA LEVEL

ROAD CLASSIFICATION
Medium-duty — Light-duty —
Unimproved dirt
State Route

QUADRANGLE LOCATION

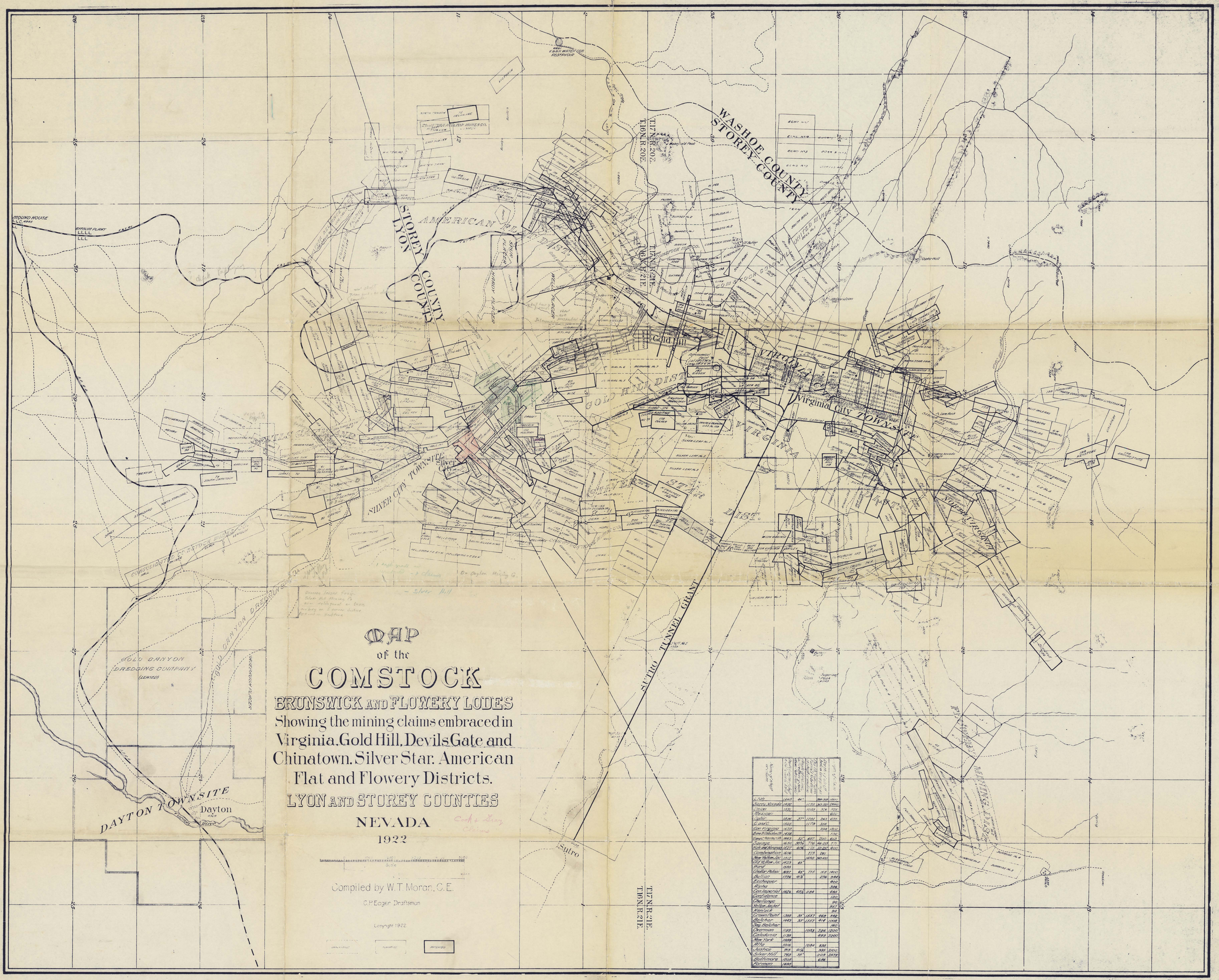
THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER 25, COLORADO OR WASHINGTON 25, D. C.
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

NIXON, NEV.
N3945—W11915/15

1957

AMS 2163 IV—SERIES V796

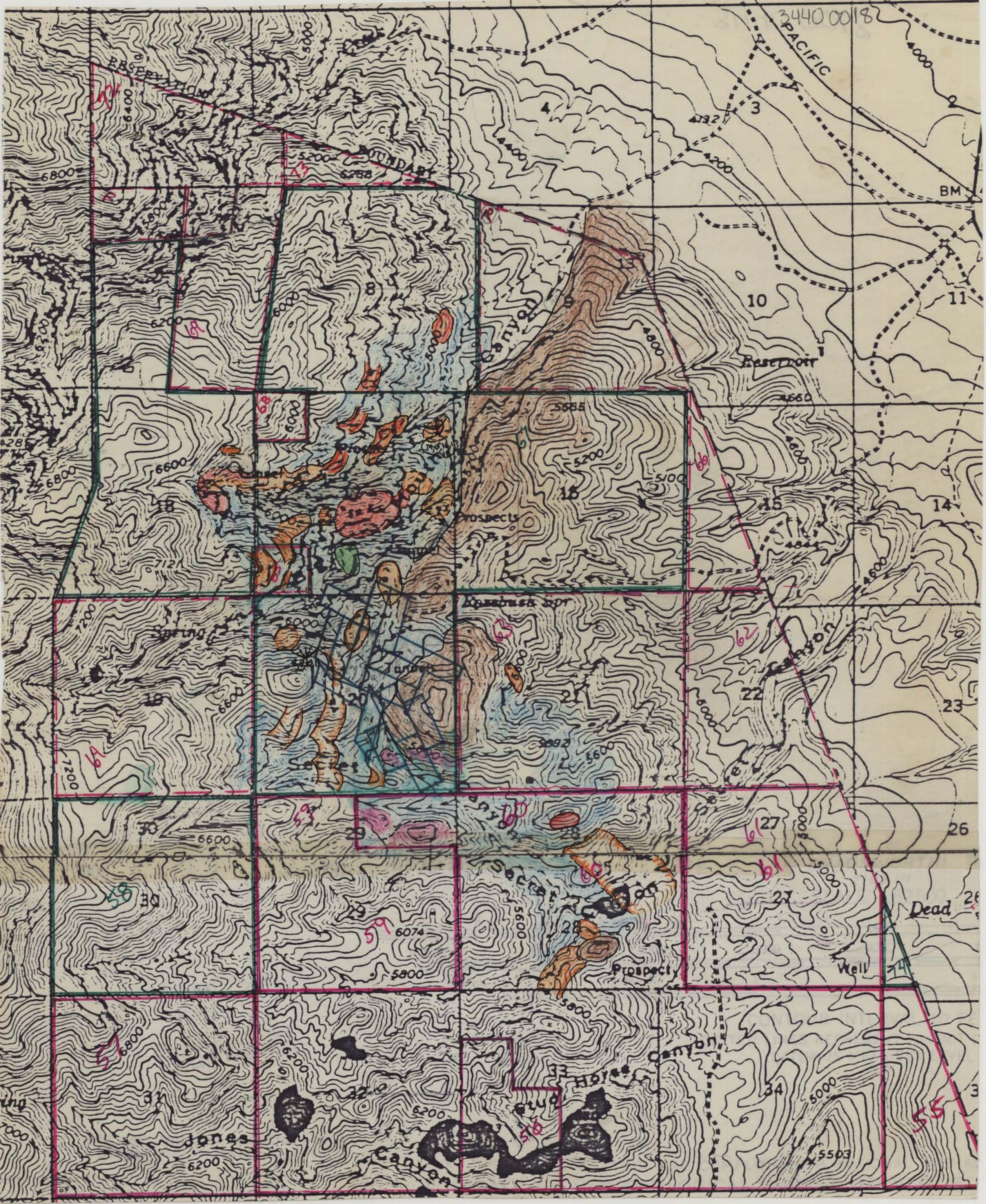
3440 0018

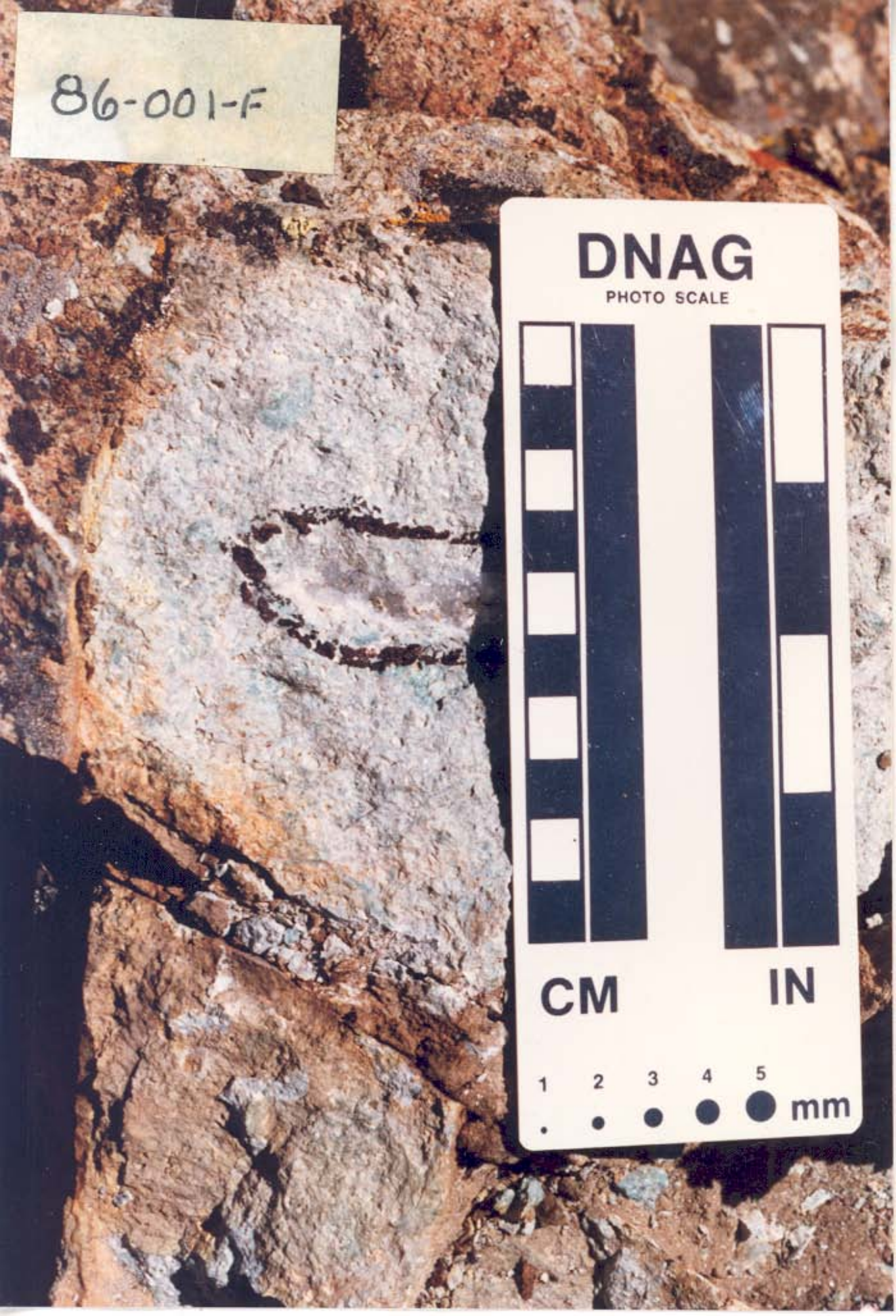


Name of Mine	Date Discovered	Date Patented	Amount Paid Patent	Amount Paid Patent	Amount Paid Patent	Amount Paid Patent
Utah	1863	86*		199-320	1000	
Sierra Nevada	1859		1055	40-320	2944	
Union	1857		1083	504	426	
Mexican					600	
Gulch	1856	87*	1081	263	634	
C. and C.	1865		1079	336		
Gov. Virginia	1859			234	1512	
Rum & Cobb Lodes	1858				576	
Comp. Hardscrab	1863	85*	697	250	613	
Savage	1860	89½	756	46-24	777	
Hale and Norcross	1857	86½	1055	38-280	400	
Combination	1866		773	281		
New Yellow Jac	1862		1083	80-400		
Old Yellow Jac	1859	85*				
Ward	1865					
Gould & Curry	1857	85*	775	103	1400	
Bullion	1862	87½		276	240	
Exchequer					400	
Alpha					326	
Continental	1862	85½	1080		480	
Confidence					110	
Challenge					90	
Yellow Jacket					987	
Kentuck					92	
Crown Point	1860	86*	1057	462	448	
Belcher	1863	85*	1057	914	1008	
Sag Belcher					160	
Overman	1863		1083	326	1200	
Chollar-Hale	1859			899	2200	
New York	1859					
Alta	1864		1080	835		
Justice	1863	86½		385	2100	
Silver Hill	1863	86*		1108	2579	
Bullionaire	1865			696		
Forman	1863				160	

3440'0018

3440 0018


PACIFIC
BOUNDARY
BM
Reservoir
Prospects
Spring
Dead
Well
Hayes
Canyon
Jones
Canyon


86-001-F
DNAG
PHOTO SCALE
CM
IN
1
2
3
4
5
mm

86-001-F
DNAG
PHOTO SCALE
CM
IN
1 2 3 4 5
mm

1 meter
below
86-001-F
DNAG
PHOTO SCALE
CM
IN
1 2 3 4 5
mm

86-002-F
&
86-003-F
outcrop
DNAG
CM
IN

Photo 3

86-004-F
DNAG
PHOTO SCALE
CM
IN
1 2 3 4 5
mm

86-005-F
DNAG
PHOTO SCALE
CM
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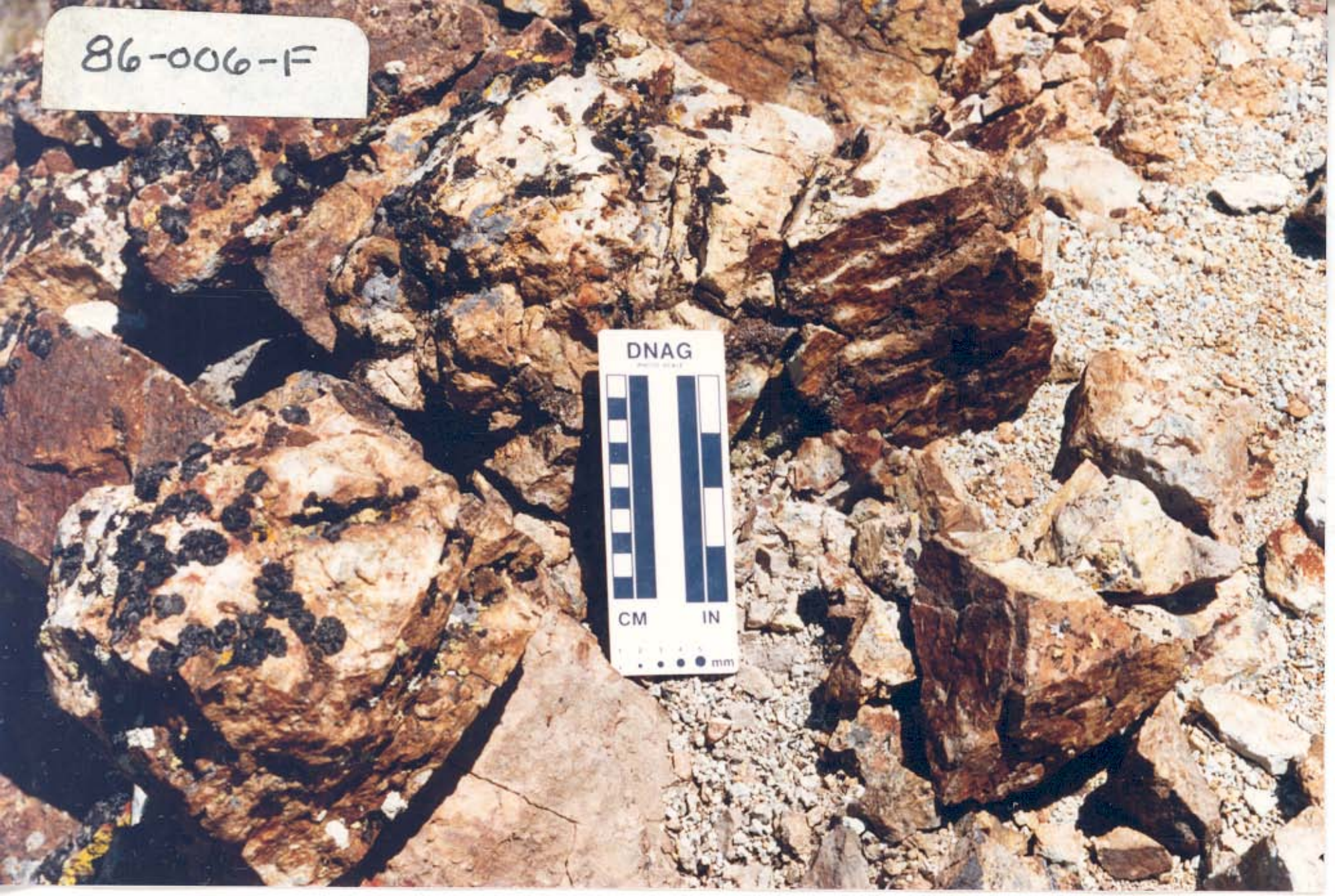
1 2 3 4 5
mm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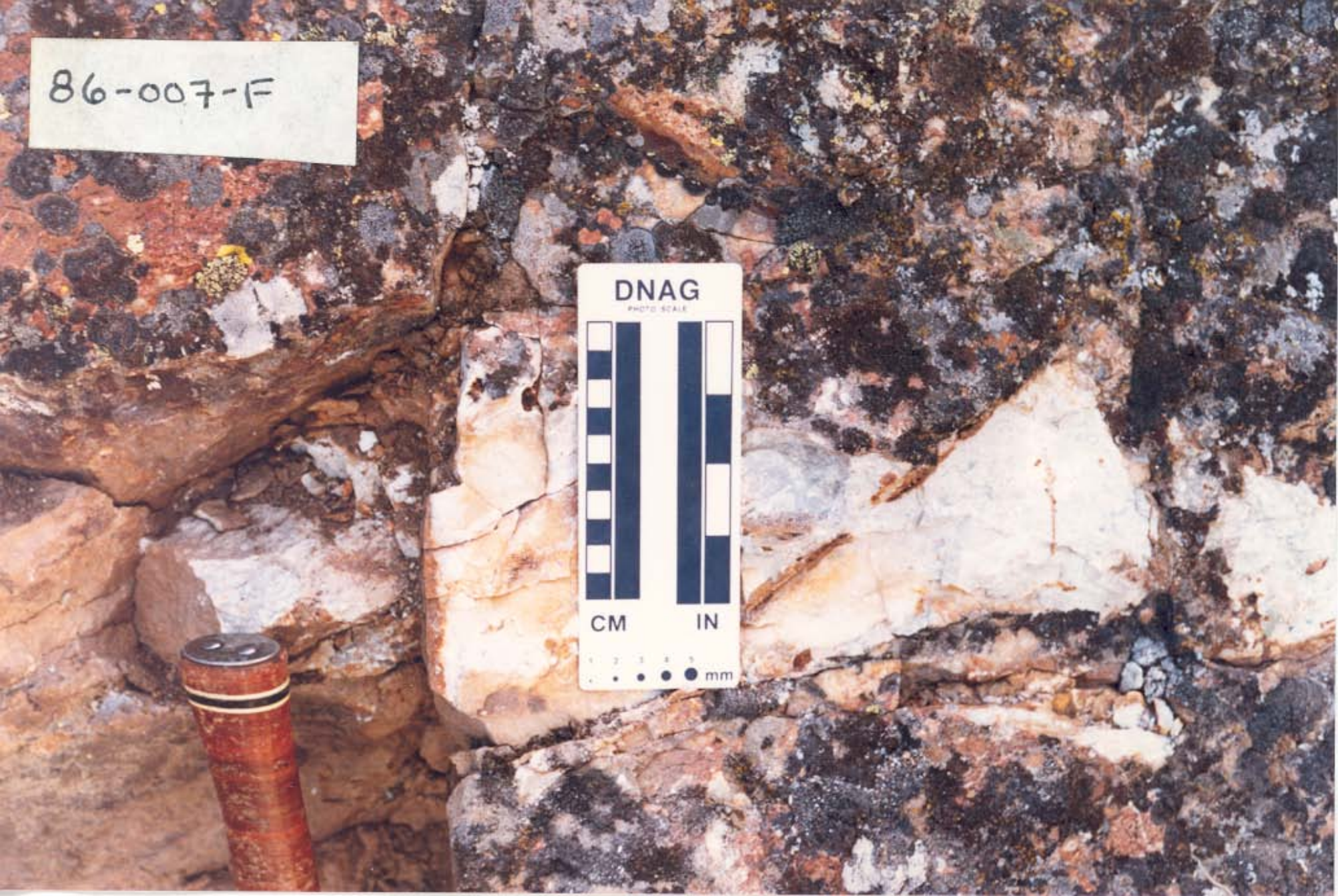
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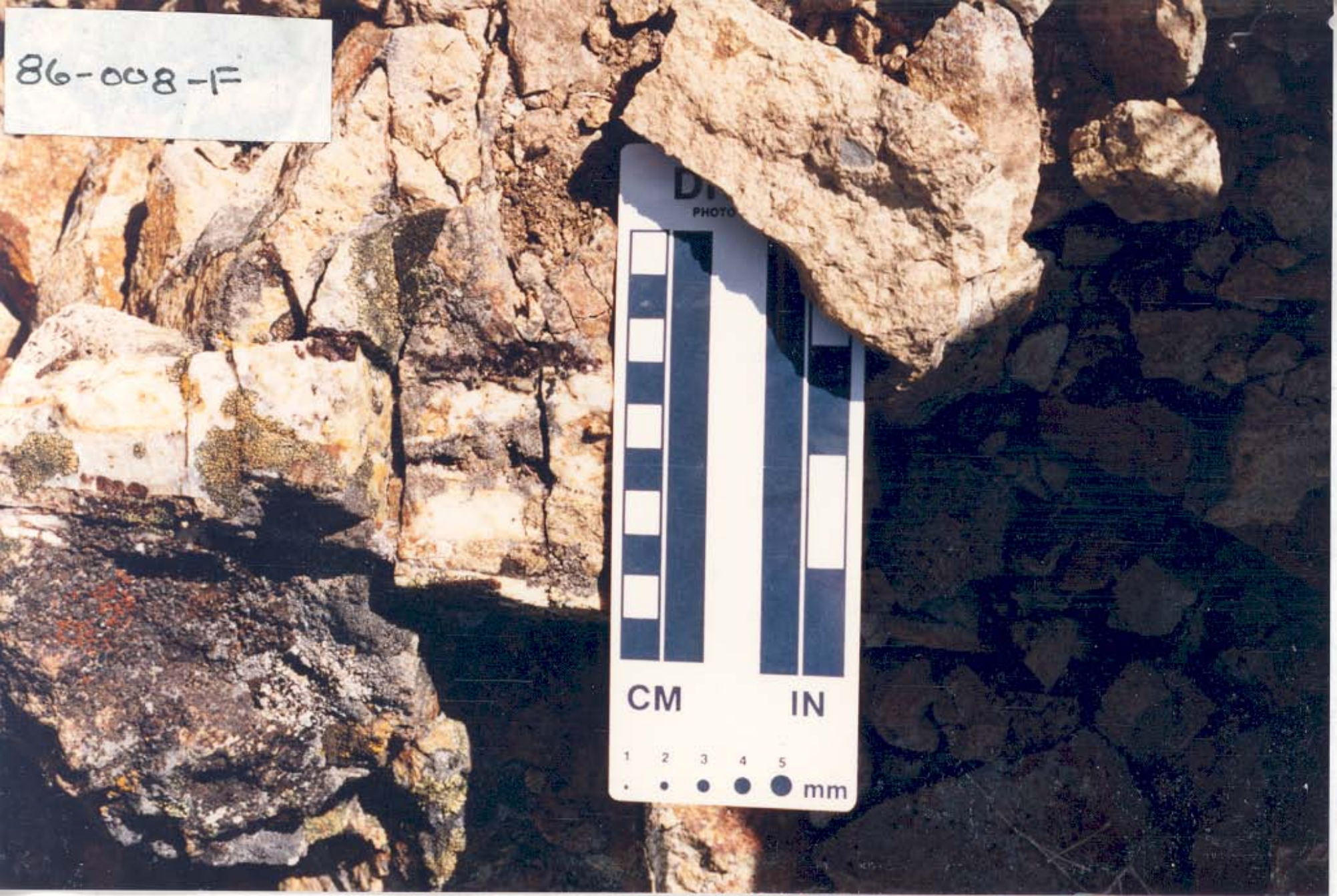
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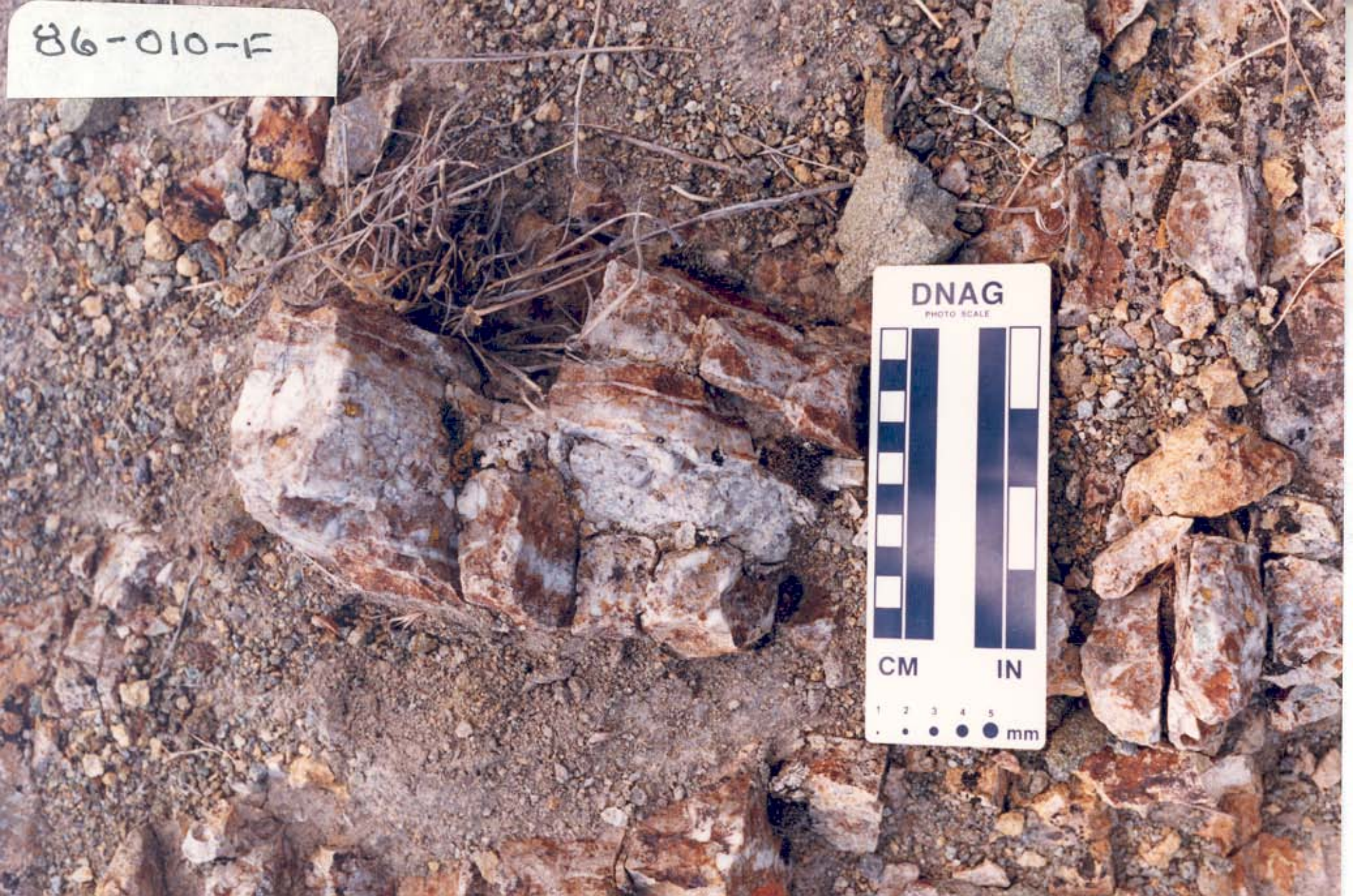
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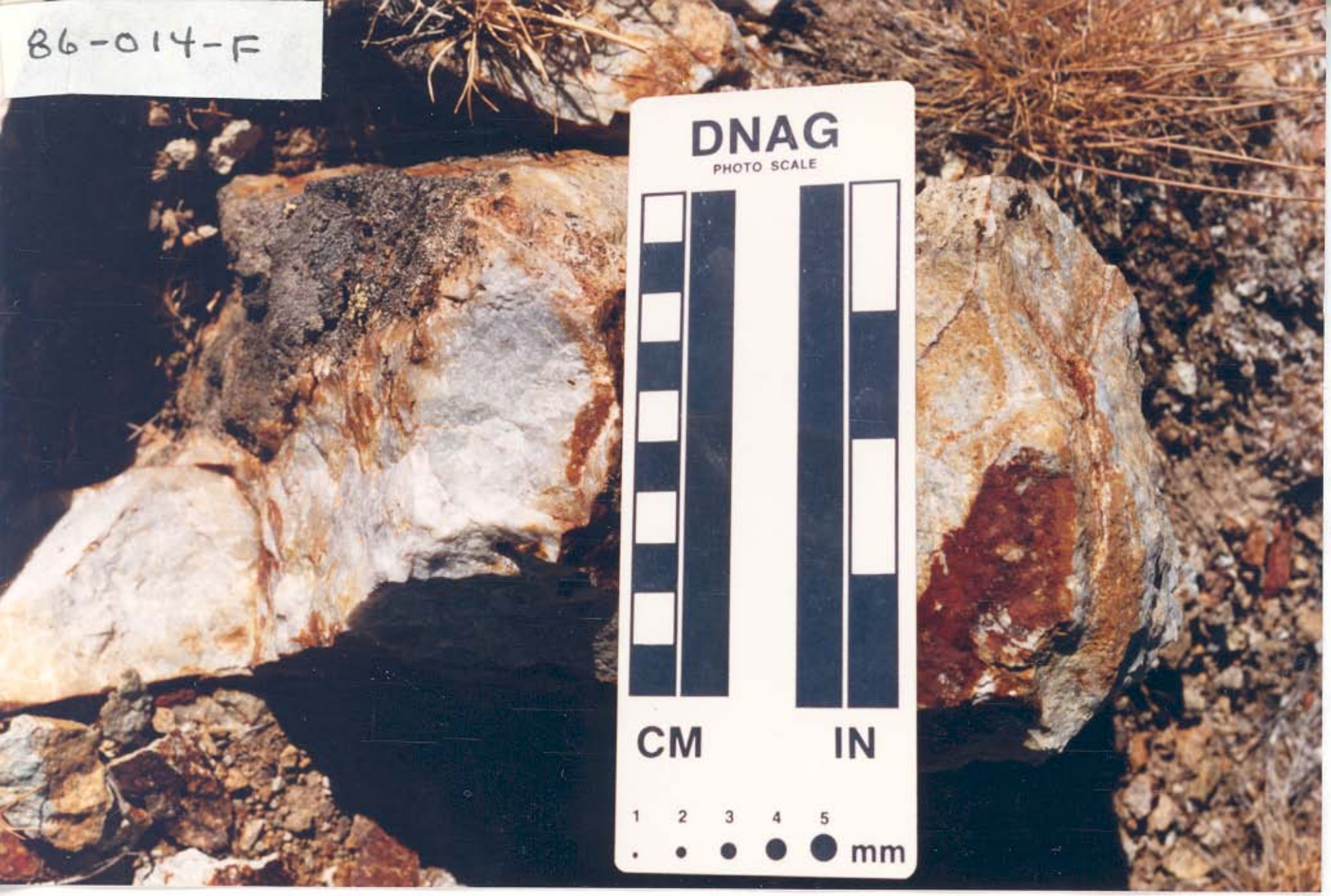
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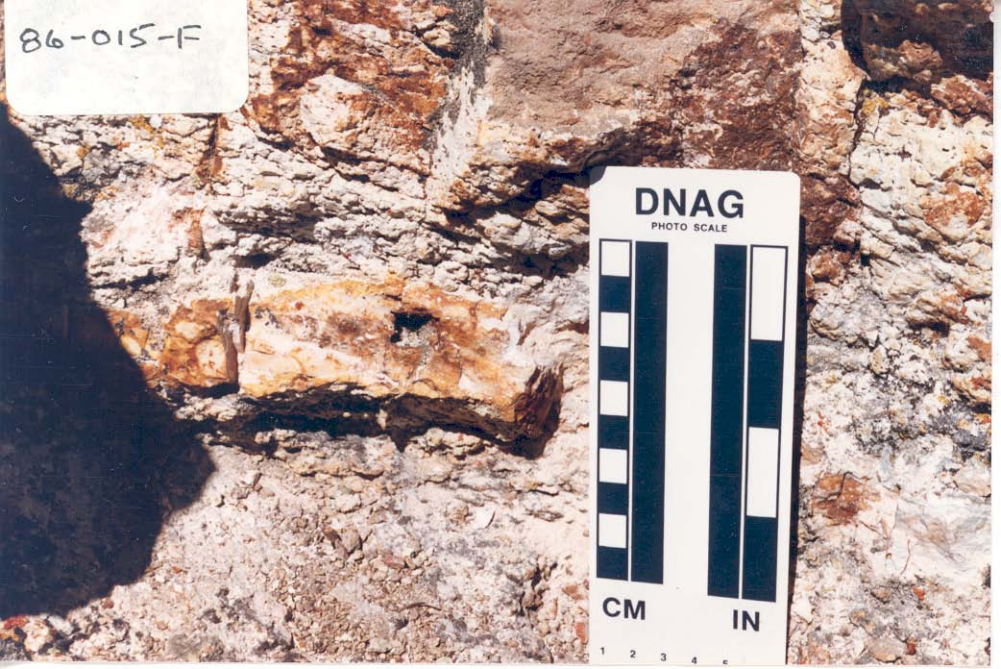
mm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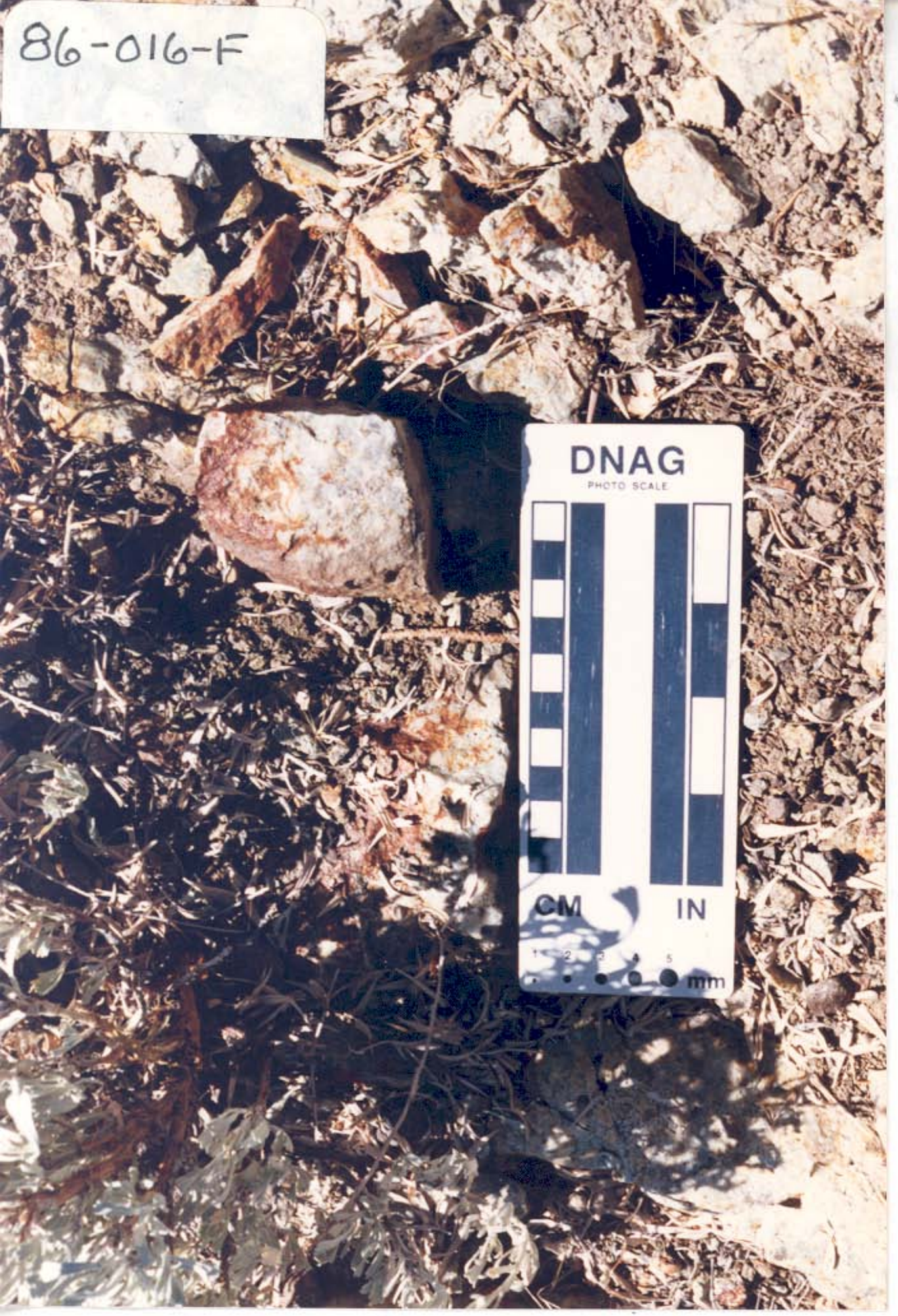

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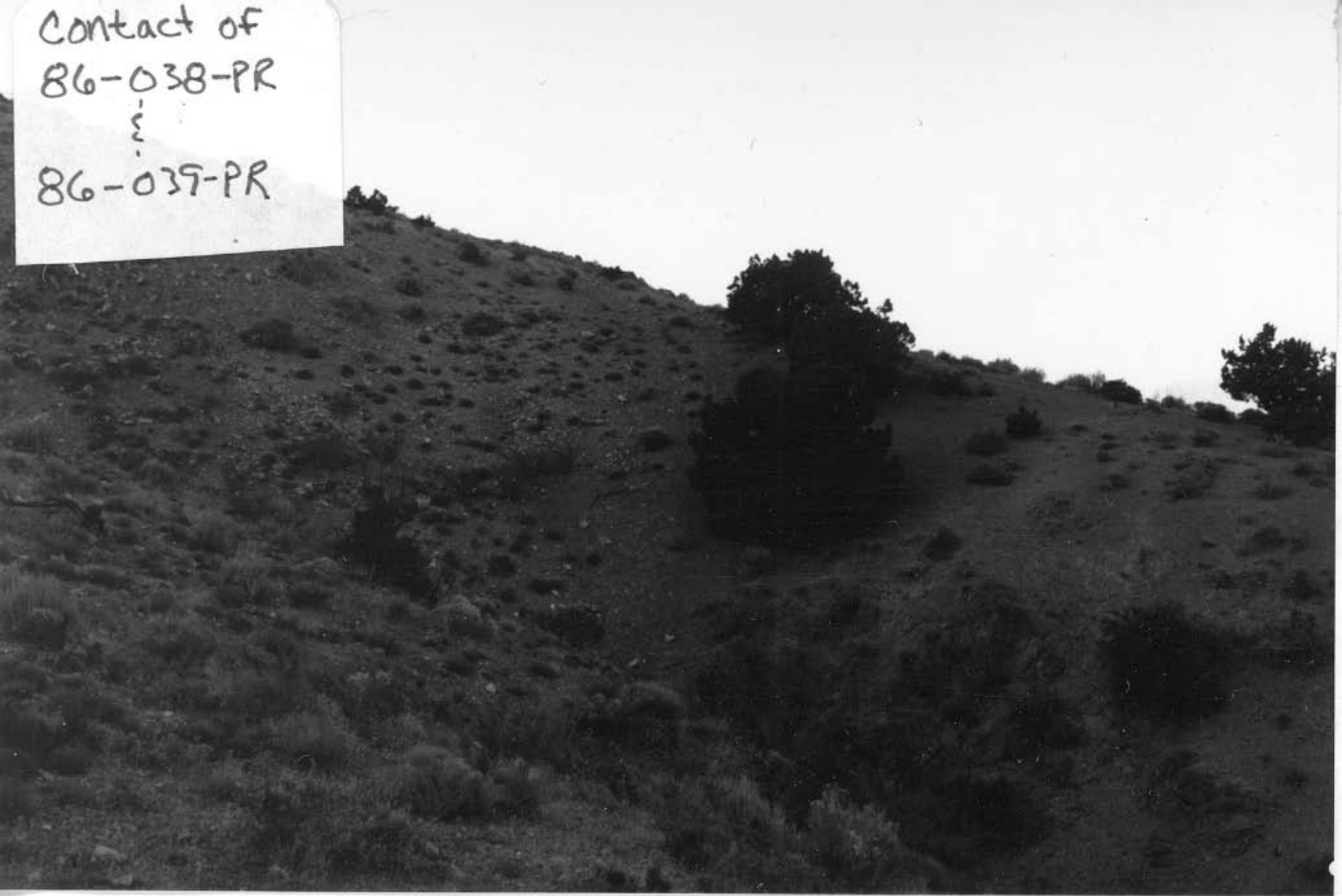
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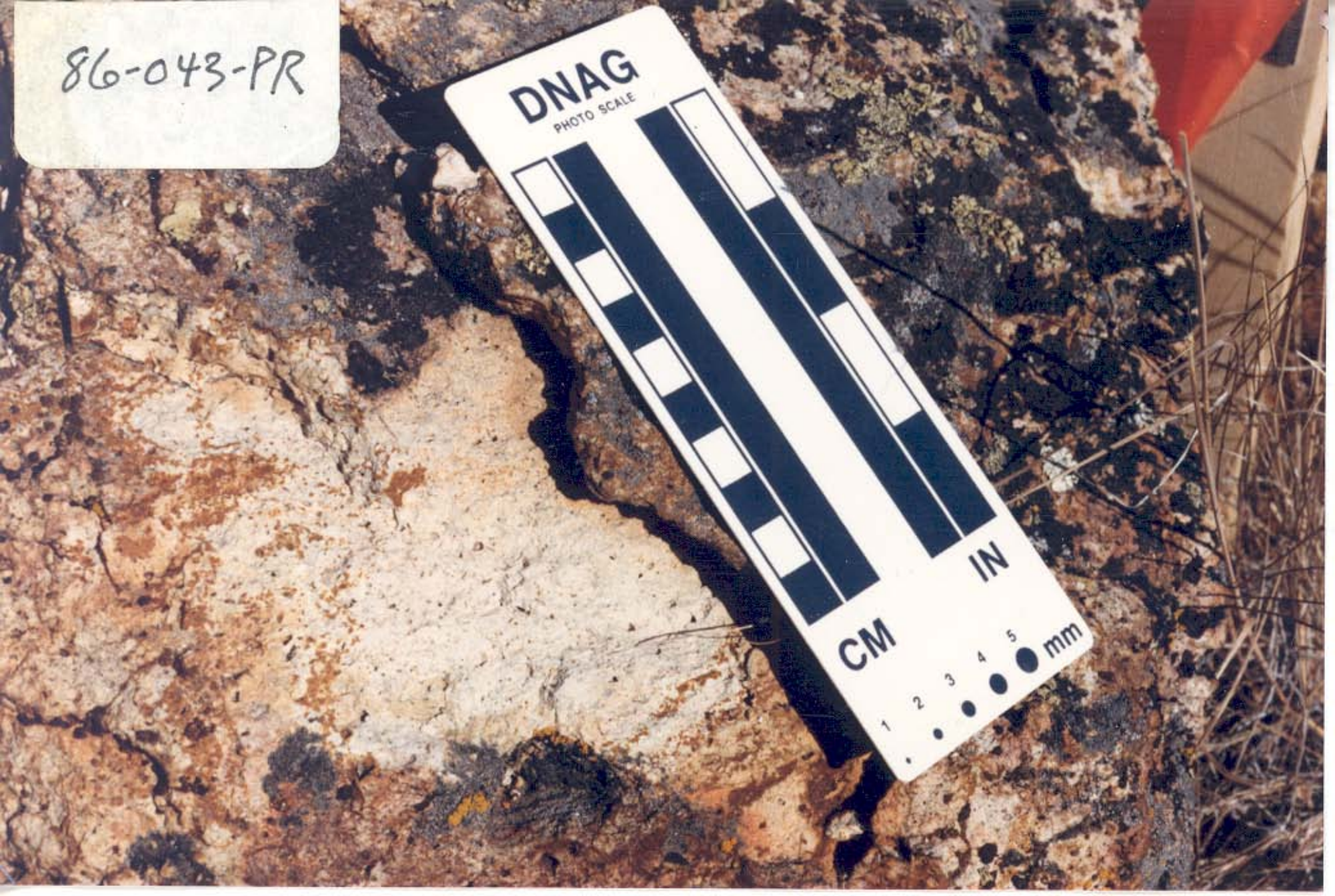
86-039-PR

86-042-PR

86-043-PR



86-047-PR

86-049-PR
DNAG
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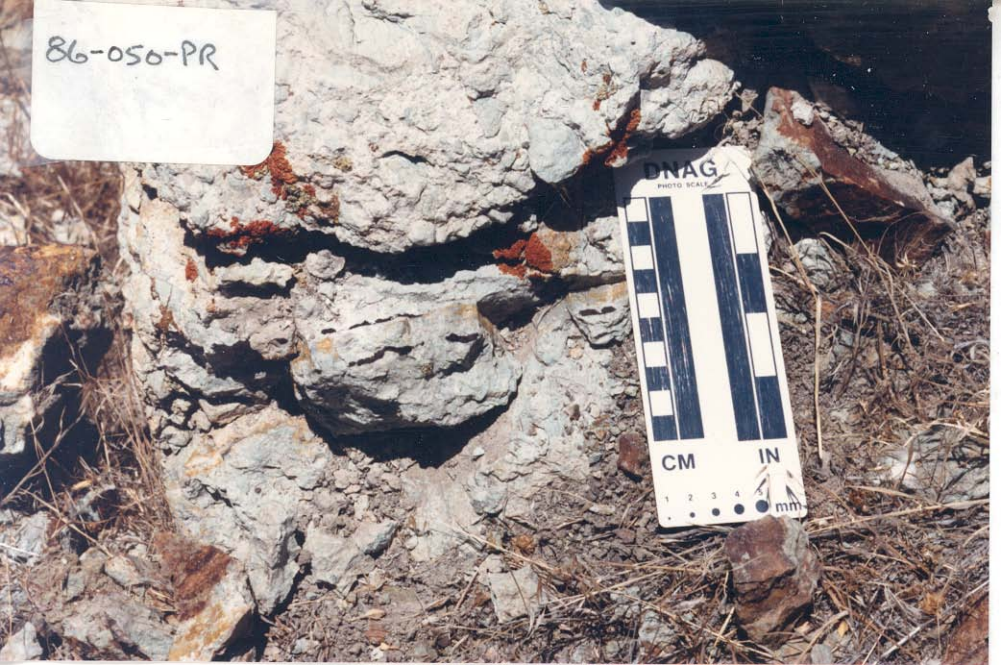
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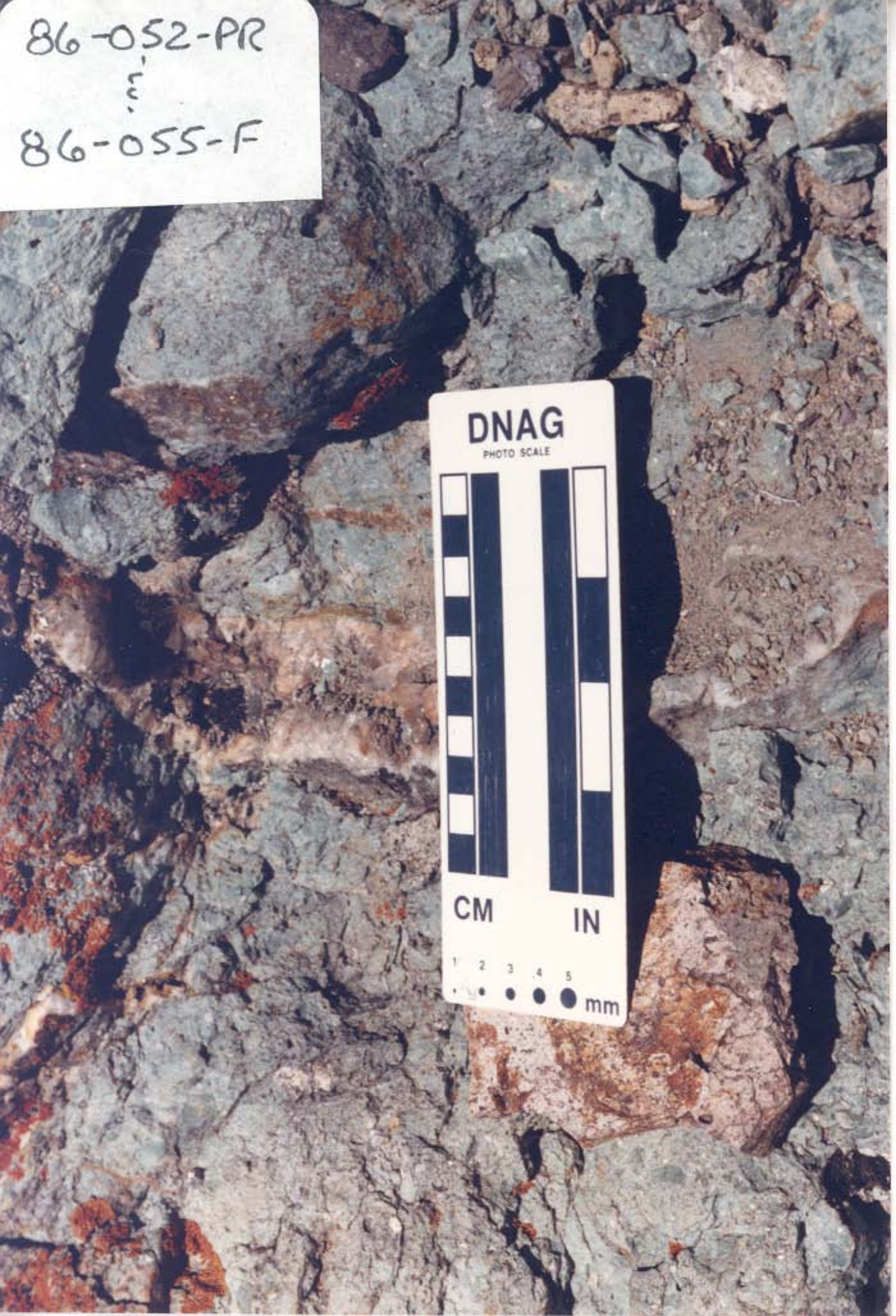

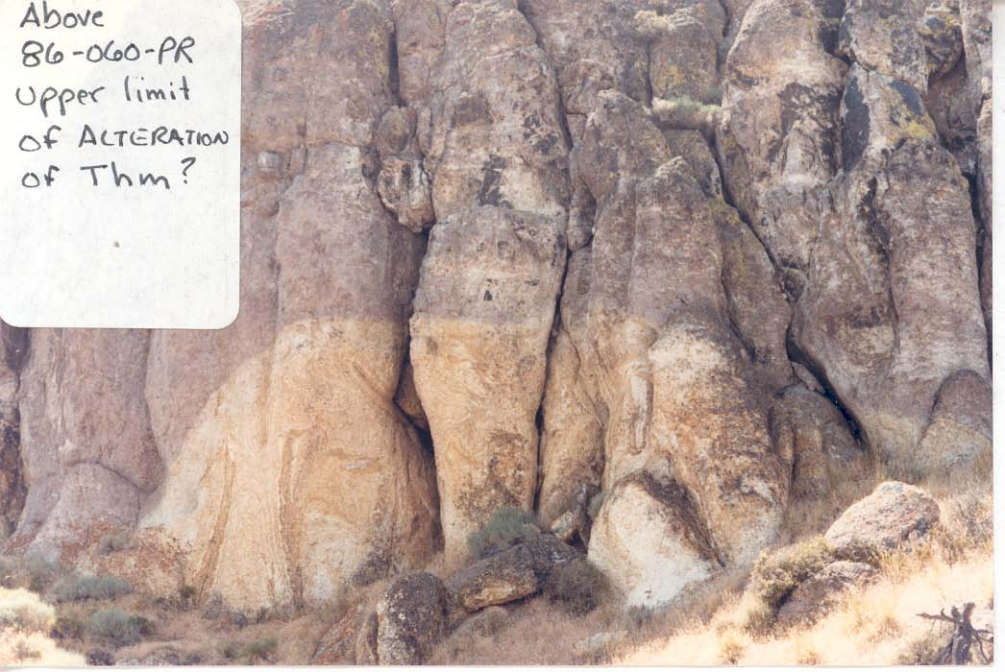
Above
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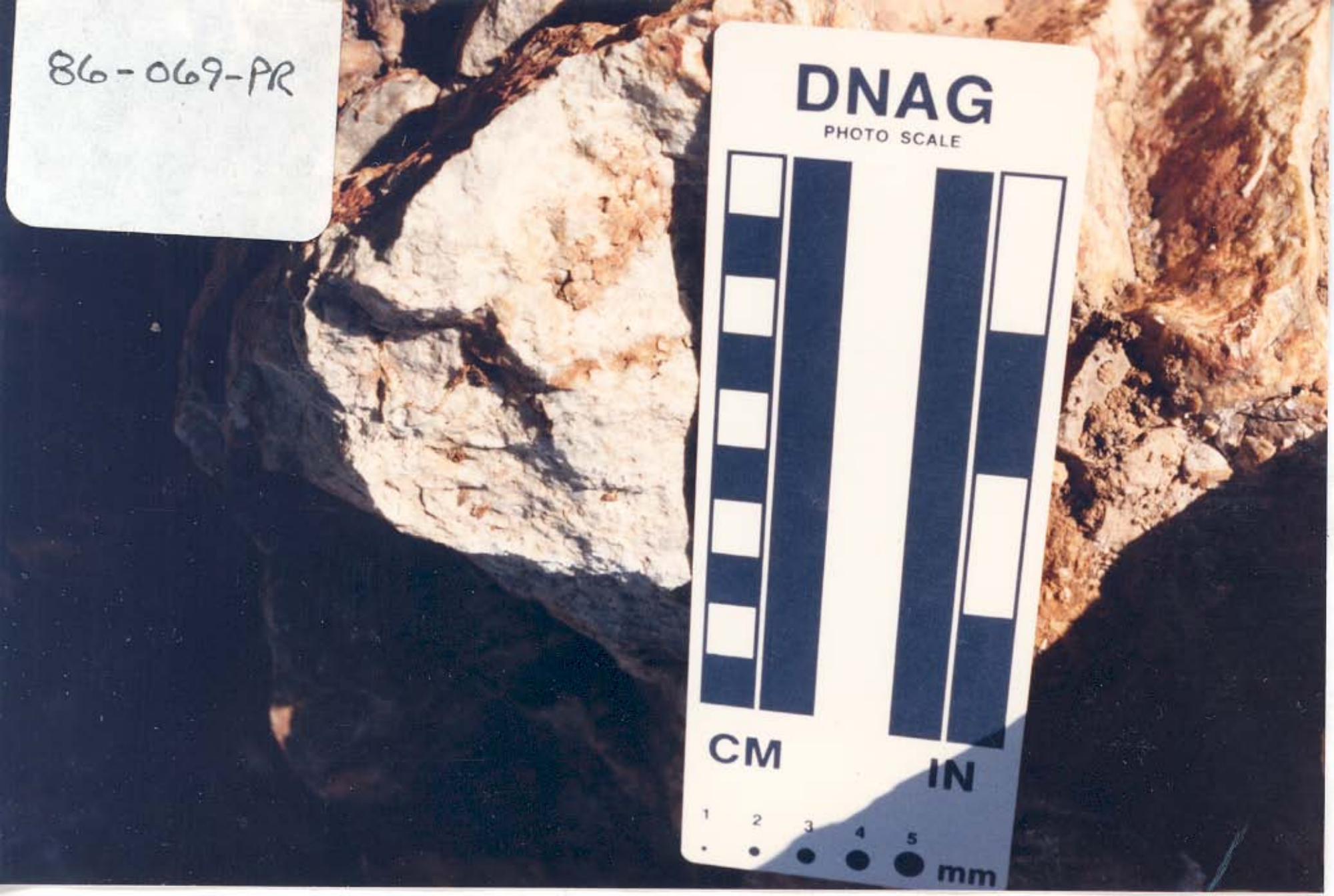
Upper limit
of ALTERATION
of Thm?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mm

#15

#16

#25