| | |
|---|---|
| 1. DATE - TIME GROUP<br>9 August 64 10/0125Z | 2. LOCATION<br>Colorado Springs, Colorado |
| 3. SOURCE<br>Civilian | 10. CONCLUSION<br>INSUFFICIENT DATA FOR EVALUATION |
| 4. NUMBER OF OBJECTS<br>15-30 | |
| 5. LENGTH OF OBSERVATION<br>Less than 10 Minutes | 11. BRIEF SUMMARY AND ANALYSIS<br>Reported objects observed and photographed. Film submitted for analysis. |
| 6. TYPE OF OBSERVATION<br>Ground-Visual | COMMENTS: Photos submitted with report for analysis. Objects on film did not correspond with objects as reported. Insufficient Data for evaluation. Only unidentiafiable image on the film strip was a blurred streak determined to be within 1/4 meters of the camera. |
| 7. COURSE<br>N/A | |
| 8. PHOTOS<br>XX Yes<br>☐ No | See: Film T-3145-430<br>Specimen Tile |
| 9. PHYSICAL EVIDENCE<br>☐ Yes<br>XX No | |

FORM
FTD SEP 63 0-329 (TDE) Previous editions of this form may be used.

8 January 1965

Dear Mr. [redacted]

Reference is made to the UFO report which you submitted to the Air Force.

The film you submitted was viewed several times by photo analysts and photo processing personnel. They were unable to define any objects or images which resembled those described in your report.

The film consisted mainly of backyard family sequences. After the family sequences, the film consisted of close-up scenes with sun shining through the hair of an individual standing in front of the camera. Power and telephone lines are visible at two separate times in these sequences. These lines appear to be near the point where the photography was taken and they are in sharp focus. In one sequence with the power lines a small blurred image passes through the format and is visible for 15 frames. An individual frame-by-frame analysis did not reveal any identifiable imagery beyond a blurred streak. The path of this image curves as it crosses the format. The fact that the small image is blurred while the transmission lines are in sharp focus indicates that the image-causing object is close to the camera rather than at a significant distance from the camera. This statement is based on the reported distance to the objects being photographed as 5-20 MM and the assumption that the camera is set on infinity. These conditions would limit the distance from the camera to the object to 14 meters if the lens opening is F:1.8. Beyond 14 meters

objects will be in focus. If the lens is stopped down to F:16 the hyper-focal distance drops to 1.56 meters. Anything beyond this distance is in focus. Therefore, the image causing the object is probably within 14 meters of the camera.

Sincerely,

MASTON M. JACKS
Major, USAF
Public Information Division
Office of Information

Mr. [redacted] Avenue
Colorado Springs, Colorado

OFFICIAL FILE COPY

OFFICIAL FILE COPY

XDEM

UFO Sighting, Colorado Springs, Colorado, 10 Aug 64 4 Jan 65

Hq USAF SAFOI PB (Mrs Hunt)
Wash D C 20330

1. This office is in receipt of a UFO report from the household of [redacted] Avenue, Colorado Springs, Colorado.

2. The following information is provided in order that a suitable reply may be made to M[redacted]

a. Photo analysts and photo processing personnel viewed the subject film several times. They were unable to define any objects or images which resembled those described in the letter which was submitted to us with the film.

b. The film consisted mainly of backyard, family sequences. After the family sequences, the film consisted of close-up scenes with sun shining through the hair of an individual standing in front of the camera. Power and telephone lines are visible at two separate times in these sequences. These lines appear to be near the point where the photography was taken and they are in sharp focus. In one sequence with the power lines a small blurred image passes through the format and is visible for 15 frames. An individual frame by frame analysis did not reveal any identifiable imagery beyond a blurred streak. The path of this image curves as it crosses the format. The fact that the small image is blurred while the transmission lines are in sharp focus indicates that the image causing object is close to the camera rather than at a significant distance from the camera. This statement is based on the reported distance tothe objects being photographed as 5-20 NM and the assumption that the camera is set on infinity. These conditions would limit the distance from the camera to the object to 14 meters if the lens opening is F:1.8. Beyond 14 meters objects will be in focus. If the lens is stopped down to F:16 the hyper-focal distance drops to 1.56 meters; anything beyond this distance is in focus. Therefore, the image causing the object is probably within 14 meters of the camera.

FOR THE COMMANDER

ERIC T de JONCKHEERE
Colonel, USAF
Deputy for Technology and Subsystems

UNCLASSIFIED

# PHOTO ANALYSIS REPORT

NR 64-68



DATE OF REPORT 30 December 1964

SUBJECT UNIDENTIFIED FLYING OBJECT

LOCATION Colorado Springs, Colorado DATE 10 August 1964

## PHOTOGRAPHY

AF IR QUALITY

P NRS One 8 MM film provided by TDEW

1. PURPOSE: This report answers work order number 64-103 submitted by Major H. Quintanilla, TDEW. The work request contained a reel of 8 MM film purported to contain images of unidentified flying objects.

2. ANALYSIS: Foreign Technology Division photo analysts and photo processing personnel viewed the subject film several times. They were unable to define any objects or images which resembled those described in the letter submitted with the film.

3. The film consisted mainly of backyard, family sequences. After the family sequences, the film consisted of close-up scenes with sun shining through the hair of some individual standing in front of the camera. Power and telephone lines are visible at two separate times in these sequences. These lines appear to be near the point where the photography was taken and they are in sharp focus. In one sequence with the power lines a small blurred image passes through the format and is visible for 15 frames. An individual frame by frame analysis did not reveal any identifiable imagery beyond a blurred streak. The path of this image curves as it crosses the format. The fact that the small image is blurred while the transmission lines are in sharp focus indicates that the image causing object is close to the camera rather than at a significant distance from the camera. This statement is based on the reported distance to the objects being photographed as 5-20 NM and the assumption that the camera is set on infinity. These conditions would limit the distance from the camera to the object to 14 meters if the lens opening is F:1.8. Beyond 14 meters objects will be in focus. If the lens is stopped down to F:16 the hyper-focal distance drops to 1.56 meters; anything beyond this distance is in focus. Therefore, the image causing object is probably within 14 meters of the camera.

PHOTO ANALYSIS BY:

Charles A. Rader

CHARLES A. RADER, Captain, USAF
Photo Interpreter

APPROVED BY:

William L. Turner

WILLIAM L. TURNER
Captain, USAF
Chief, Photo Analysis Division

WILBER PRICE, JR.
Director, Photo Exploitation Directorate

UNCLASSIFIED

# ENGINEERING SUPPORT WORK REQUEST

☐ ENGINEERING ANALYSIS ☒ PHOTO ANALYSIS ☐ MACHINE COMPUTATION

PPT NUMBER: A68002

DESCRIPTION OF WORK: Request analysis as to most likely cause of objects.

REFERENCE MATERIAL: 3 Negatives, 3 Prints, Reel of film and correspondence. Request all materials be returned upon completion.

REQUESTED BY [redacted] SYMBOL TDEW PHONE 69215/66378

I CERTIFY THAT THIS WORK IS AUTHORIZED BY ME AND THAT IT HAS THE FOLLOWING PRIORITY AND DEADLINE WITHIN MY DIVISION.

| PRIORITY | DEADLINE DATE | SIGNATURE OF APPROVING DIVISION CHIEF | DATE |
|---|---|---|---|
| | 1 Dec 64 | | |

ENGINEERING SUPPORT MONITOR _____ ASSISTANT _____

FINAL WORK TO BE IN FORM OF :

☐ ENGINEERING NOTE ☐ COMPUTATION ☐ PI REPORT ☐ DRAWING ☐ PROGRAM

WORK REQUEST APPROVED BY: _____ DEADLINE DATE _____

PRIORITY NUMBER ☐ ONE ☐ TWO ☐ THREE

WORK ORDER NUMBER

FTD FORM OCT 61 462 Previous editions may be used.

TEL: 635-3911
EXT: 4700

HEADQUARTERS
4600TH AIR BASE WING AND ENT AIR FORCE BASE
UNITED STATES AIR FORCE
ENT AIR FORCE BASE, COLORADO

REPLY TO
ATTN OF: WGDOM-OB

SUBJECT: Unidentified Flying Object Report

20 August 1964

TO: FTD
Wright-Patterson AFB
Ohio 45433

1. The following unidentified flying object report is submitted in accordance with paragraph 13b(1), AFR 200-2.

a. Description of objects:

(1) Shape: The objects were round and somewhat flat in appearance.

(2) Size compared to a known object held in the hand at arms length: The objects were approximately the size of a grapefruit.

(3) Color: The objects were gray, with at least one object being a darker metallic color.

(4) Number of objects: Reports varied from 15 to 30.

(5) Formation: Objects appeared to move in an organized but unsymmetrical pattern. There were no reports of random movement with the exception that two of the objects departed from the main group and descended to a lower altitude.

(6) Discernible features or details: None

(7) Tail, trail, or exhaust patterns: None

(8) Sound: None

(9) Other pertinent or unusual features: Witnesses reported objects came closer to them but all indicated, when questioned, that objects appeared to remain same size regardless of distance. One witness took pictures of these objects with an 8MM movie camera. The film is undeveloped and enclosed as Attachment #3.

b. Description of course of object:

(1) What first called the attention of observers to the objects: Five persons, four adults and one minor, were eating dinner in the backyard of their home. The sky was overcast but just before sunset, the sun came out from behind the clouds and one observer sighted the objects just north of Pikes Peak. He brought the objects to the attention of other witnesses.

(2) Angle or elevation and azimuth of objects when first observed: Objects were observed from an elevation of 6100' MSL. They appeared north of Pikes Peak (14,109' MSL) which was eight and one-quarter nautical miles away. The objects appeared to be 12 - 15 degrees above the horizon. The objects appeared between the 262 - 272 degree (True) radials of the point of observation. The point of observation is depicted on the attached map. The objects appeared from the southwest on an estimated heading of 030 degrees (True). The range was reported from between 5 to 20 nautical miles. The course of the objects is depicted on the attached map in blue. This blue marking reflects only the course of the objects and not the distance from the observers.

(3) Angle or elevation and azimuth of objects upon disappearance: The objects appeared to depart at the same elevation and azimuth from which they came, except for two of the objects which reportedly descended and departed on the same azimuth but at a lower altitude.

(4) Description of flight path and maneuvers of objects: The objects appeared from the southwest in more than one group. The objects appeared to travel quite rapidly toward the observers. While not in a recognizable formation they appeared to be in an organized pattern. They reversed direction with no noticeable turning movement, except for the two which descended from the main group. These two made noticeable turns and disappeared behind Pikes Peak. The main group appeared to climb as they disappeared to the southwest.

(5) How did the objects disappear: The main group disappeared instantaneously. Two of the objects disappeared behind Pikes Peak.

(6) How long were the objects visible: Approximately five minutes.

c. Manner of observation:

(1) All sightings were ground visual.
(2) There were no optical aids used.
(3) There were no air-borne sightings.

d. Time and date of sighting:

(1) The sighting took place between 0125Z and 0135Z, 10 August 1964.

(2) Light conditions: Day, approximately one hour prior to sunset.

e. Location of observers: The observers were located at 38° 51' 30" N., 104° 52' 30" W. Their position is depicted on the attached map.

f. Identifying information on observers: NOTE: All observers live in the same household.

(1) Civilian:

(a) [redacted] age 43. Address, [redacted] Avenue, Colorado Springs, Colorado. Occupation, Carpenter Foreman. Estimate of reliability -- good.

(b) [redacted] age 43. Address, same as (a) above. Occupation, housewife. Estimate of reliability -- poor.

(c) [redacted] age 13. Address, same as (a) above. Occupation, minor of school age. Estimate of reliability -- fair.

(d) [redacted] age 22. Address, same as (a) above. Occupation, employed by the City Water Department. Estimate of reliability -- good.

(e) [redacted] age 18. Address, same as (a) above. Occupation, housewife. Estimate of reliability -- good.

g. Weather, winds and aloft conditions at time and place of sightings: Weather data is enclosed as Attachment #2.

h. Any other unusual activity or condition which might account for the sighting: None.

i. Interception or identification action taken: None.

j. Location of flight of any air traffic or balloon releases in the area which might possibly account for the sighting: None.

k. Position, title and comments of preparing officer:

(1) Captain Donald D. DeHoff, AO 3035215, Assistant Base Operations Officer, Ent AFB, Colorado.

(2) The following agencies were contacted in an attempt to obtain additional reports on the sightings: All provided negative answers.

(a) Denver ARTC. This agency checked their radar and flight logs for the period in question.

(b) Colorado State Patrol.

(c) Local Law Enforcement Agencies in Colorado Springs, Broadmoor, Manitou Springs, Fort Carson (US Army), Woodland Park, Divide, Cripple Creek, Pueblo, Canon City, and Salida.

(d) U.S. Forestry Service who in turn contacted all fire towers and ranger stations in the area.

(e) FAA Control Towers at Peterson Field, and Pueblo Municipal, Pueblo.

(f) The lodge manager on top of Pikes Peak and the toll gate operators for the road leading to the top of the peak.

(g) Rainbow Valley Recreation Area (USAF leased facility).

(h) In addition to the above checks the North American Air Defense Command Combat Operations and Space Detection and Tracking Centers were contacted. They indicated there was no unusual activity at the time that might have caused the sightings.

(3) The attached map has been annotated with red "Xs" to indicate points contacted for possible sightings.

(4) Preliminary analysis of the sightings:

(a) The testimony from all five witnesses leave little doubt there were objects or some phenomena present. The film may prove the objects to be some type of aerial vehicles, however, the other evidence available tends to disprove this. A thorough search made to see if anyone else had seen these objects brought negative results. The local GCI site, Denver ARTC and Peterson Approach Control all indicated negative radar returns for the area during the time in question and the NORAD Space Detection and Tracking Center indicated there were no inputs into their system that might suggest the presence of some type of aerial vehicles.

(b) The sightings could have been caused by lenticular or "cap" type clouds over the mountains or by the rays of the setting sun reflecting off some other unusual weather phenomena. This is based on the following:

1. The air was relatively unstable at the time of the sightings, with many thunderstorms in the area.

2. The objects when sighted were almost in line with the setting sun.

3. The sighting appeared "cloudlike" in nature to some of the witnesses.

4. The sightings took place in a very populated area and the objects were not reported by anyone else which tends to substantiate the theory the objects were only visible from an angle closely in line with the setting sun.

5. The objects did not appear to get larger as they approached the observers. This violates the perspective rule for solid objects.

(5) Existence of physical evidence: Mr. [redacted] one of the witnesses, indicated he photographed the objects with an 8MM movie camera. He volunteered this film for evaluation. The film has not been developed as the developing process is patented by a commercial concern and local military and civilian photographic agencies could not develop it. The witness' camera was a Keystone Americana 8MM movie camera with a 25MM F-1:3 telephoto lens. The camera was equipped with an automatic light meter and lens adjustment, therefore, no shutter speed and lens opening data is available. He used no filters or tripod. He did use the "panning" technique. The camera was pointed between 262 - 272 degrees (True) and between approximately 12 - 15 degrees from the horizon.

2. The witness, Mr. [redacted] desires the reel on which the undeveloped film is rolled and a replacement roll of film be returned to him.

3. NOTE: The attached roll of film is undeveloped and should be opened only by qualified photographic personnel.

FOR THE COMMANDER

MAC VICKREY
LtCol, USAF
Deputy Commander For
Operations And Maintenance

3 Atch
1. Map of Area
2. Weather Data
3. Roll 8MM Undeveloped Film (For TD-E)

Copies to: ADC (ADOIN), NORAD (NINT)

4th Weather Wing (MATS)--Det 1
UNITED STATES AIR FORCE
Ent Air Force Base, Colorado

REPLY TO
ATTN OF: 4WWD1

12 August 1964

SUBJECT: Weather Information

TO: BASOPS, Captain De Hoff

In response to request by Captain De Hoff for weather information, the following is submitted. Weather conditions at Colorado Springs, Colorado, 10 August 1964 at 1830M:

Winds Aloft - Denver - 11/0000Z (10/1700M)

| | | | |
|---|---|---|---|
| SFC | 240/12 | 20,000 | 310/13 |
| 6,000 | 300/06 | 30,000 | 290/37 |
| 10,000 | 300/10 | 50,000 | 290/34 |
| 16,000 | 320/10 | | |

Colorado Springs observations:

10/1757M 90Φ65 099/82/45/2512/012/CB ALQDS MOVG SE RWU E AND S SCTD VIRGA ALQDS HIR CLDS VSB

10/1855M 100Φ65 100/80/44/2312/013/CB SCTD VIRGA ALQDS MOVG SE HIR CLDS VSB

Vertical Temperature Gradient - Denver Raob 11/0000Z

| | | | | | | |
|---|---|---|---|---|---|---|
| DEN | 72469 | 00516 | 85472 | 70176 | 17029 | 03010 |
| | 50593 | 56596 | 03117 | 40764 | 66683 | 02829 |
| | 30974 | 81917 | 03050 | 25100 | 91110 | 02950 |
| | 20248 | 02111 | 02948 | 15429 | 14//0 | 03038 |
| | 11122 | 64106 | 25118 | | | |

Angelo C. Stella

ANGELO C. STELLA
Major, USAF
Chief Forecaster

9 Aug
Colorado Spgs.
Blessing

CITIZEN REPORT

TDEW/Maj Quintanilla/69216

UFO Sighting, 38° 51' 30" N, 104° 52' 39" W, 10 Aug 64 25 Aug 64

WADOM-OB
Hqs 4600th Air Base Wing
Ent AFB, Colorado

1. Reference your letter, Unidentified Flying Object Report, 20 Aug 64. The 8MM Film taken by Mr Earl S Blessing has been forwarded to the Kodak Company in Chicago for developing and duplication. Please advise Mr [redacted] that the original film will be returned to him upon return to us. This will take approximately two or three weeks.

2.. Also, request you ask the following questions:

a. How the witnesses were able to determine that the objects approached them without any change in size?

b. Were the two objects which disappeared behind Pikes Peak similar in all respects to the main group of objects.

FOR THE COMMANDER

ERIC T de JONCKHEERE
Colonel, USAF
Deputy for Technology
and Subsystems

4 Aug
Colorado Spgs
Blessing

OFFICIAL FILE COPY

OFFICIAL FILE COPY

IDEW

UFO Sighting, 38° 51' 30" N, 104° 52' 30" W, 10 Aug 64 8 Sep 64

WCDCM-OB
Hqs 4600th Air Base Wing
Ent AFB, Colorado

1. Reference our letter, 25 Aug 64, above subject. The 8MM Film taken by Mr [redacted] has been duplicated by the Kodak Company in Chicago. This film is being forwarded to your office for return to Mr Blessing.

2. Evaluation of sighting will be made upon receipt of answers to questions asked in our letter of 25 Aug 64.

FOR THE COMMANDER

ERIC T de JONCKHEERE
Colonel, USAF
Deputy for Technology
and Subsystems

1 Atch
8MM Film
(original)

AREA CODE 303
TEL: 635-8911
EXT: 4700/4711

HEADQUARTERS
4600TH AIR BASE WING AND ENT AIR FORCE BASE
UNITED STATES AIR FORCE
ENT AIR FORCE BASE, COLORADO, 80912

REPLY TO
ATTN OF: WGDOM-OB

4 SEP 1964

SUBJECT: UFO Sighting 38°51'30"N, 104°52'30"W, 10 August 1964

TO: FTD (TDEW-Maj Quintanilla)
Wright-Patterson AFB, Ohio 45433

1. Reference your letter, subject as above, dated 25 Aug 64.

2. Mr. [redacted] has been advised as to when his film will be returned.

3. The matter of the objects not apparently changing in size as they approached the observers was discussed at great length with each of the witnesses at the initial interview. Their original observations were reaffirmed. The witnesses stated the objects moved toward them with great speed and as they approached they changed from a cloudlike appearance to a darker metallic color. They could neither explain the problem of the objects not getting any larger nor could they provide any concrete evidence the objects did in fact approach them other than they "felt" that they did.

4. The two objects which disappeared behind Pikes Peak were similar to the other objects except they were considerably darker in color and made definite turning movements.

FOR THE COMMANDER

FRANK J. KELLER
Colonel, USAF
Deputy Commander for
Operations and Maintenance

Film

Aug. 9, 1964

Colorado Springs, Colorado

Observer: [redacted]

File # 100366!

In Custody of Audio-Visual Division

1925

COLORADO SPRINGS, COLORADO

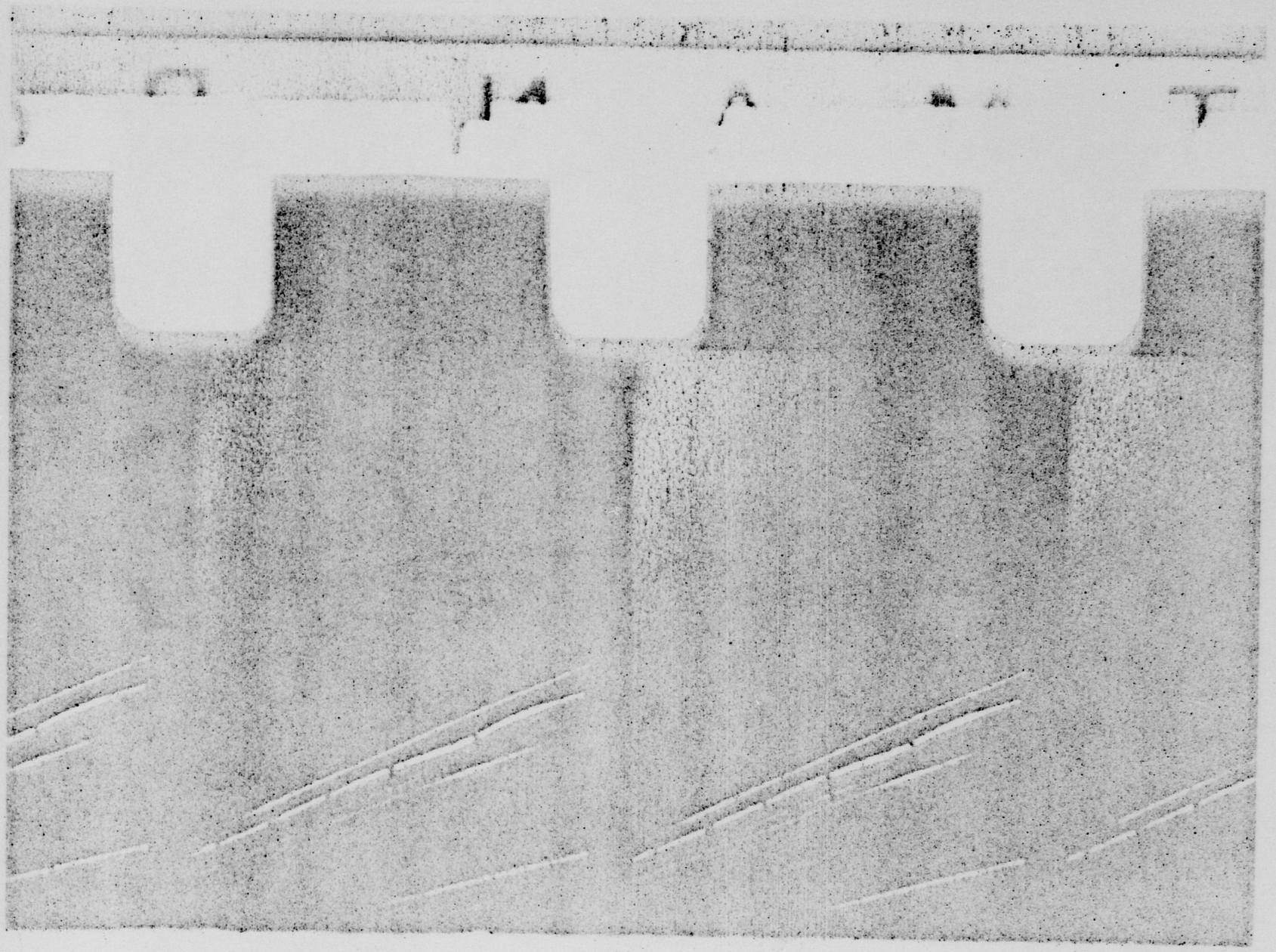
GAUG 64 - CASE INCLUDES

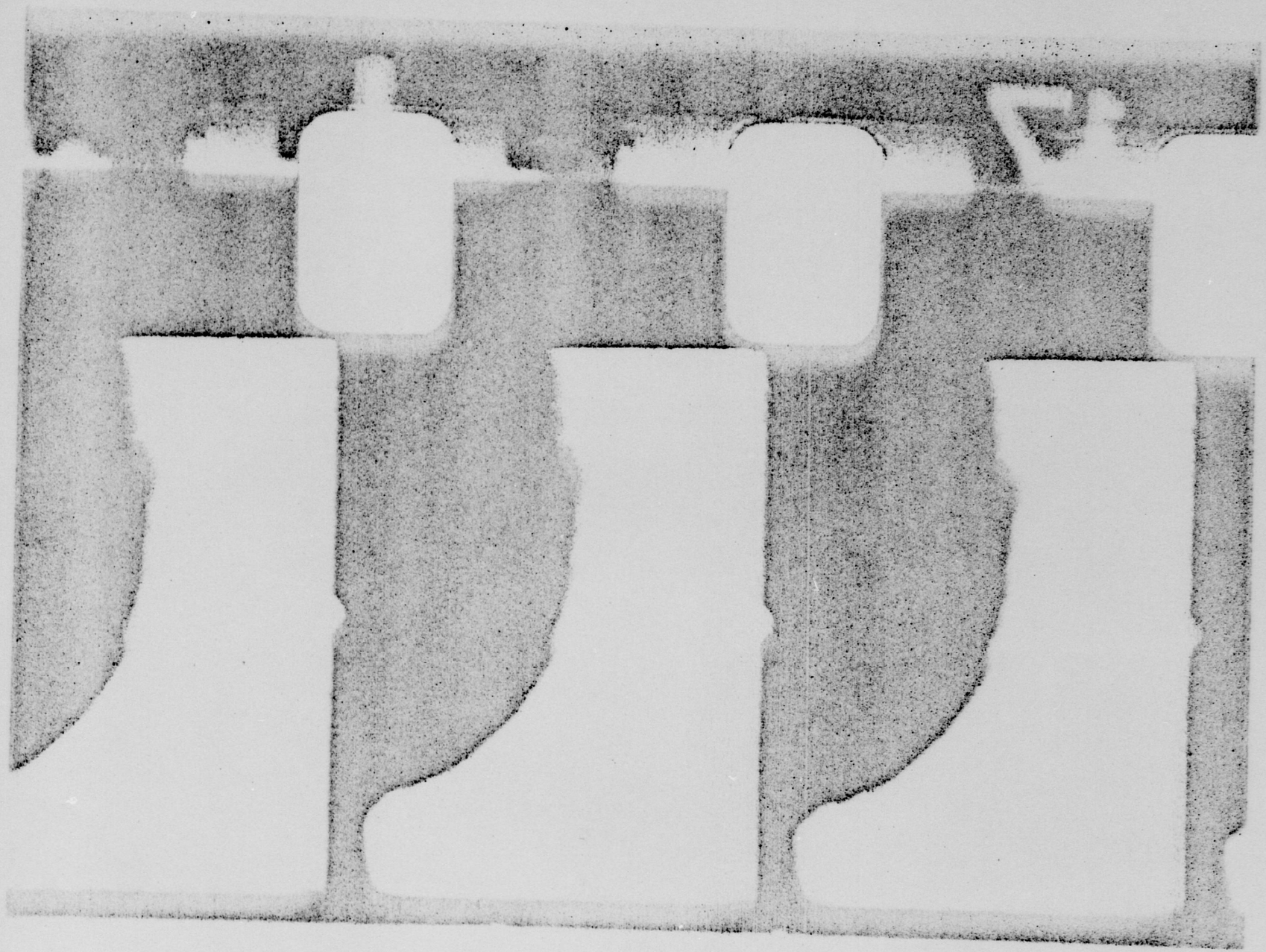
ONE (1) roll 8mm film (SEPARATE

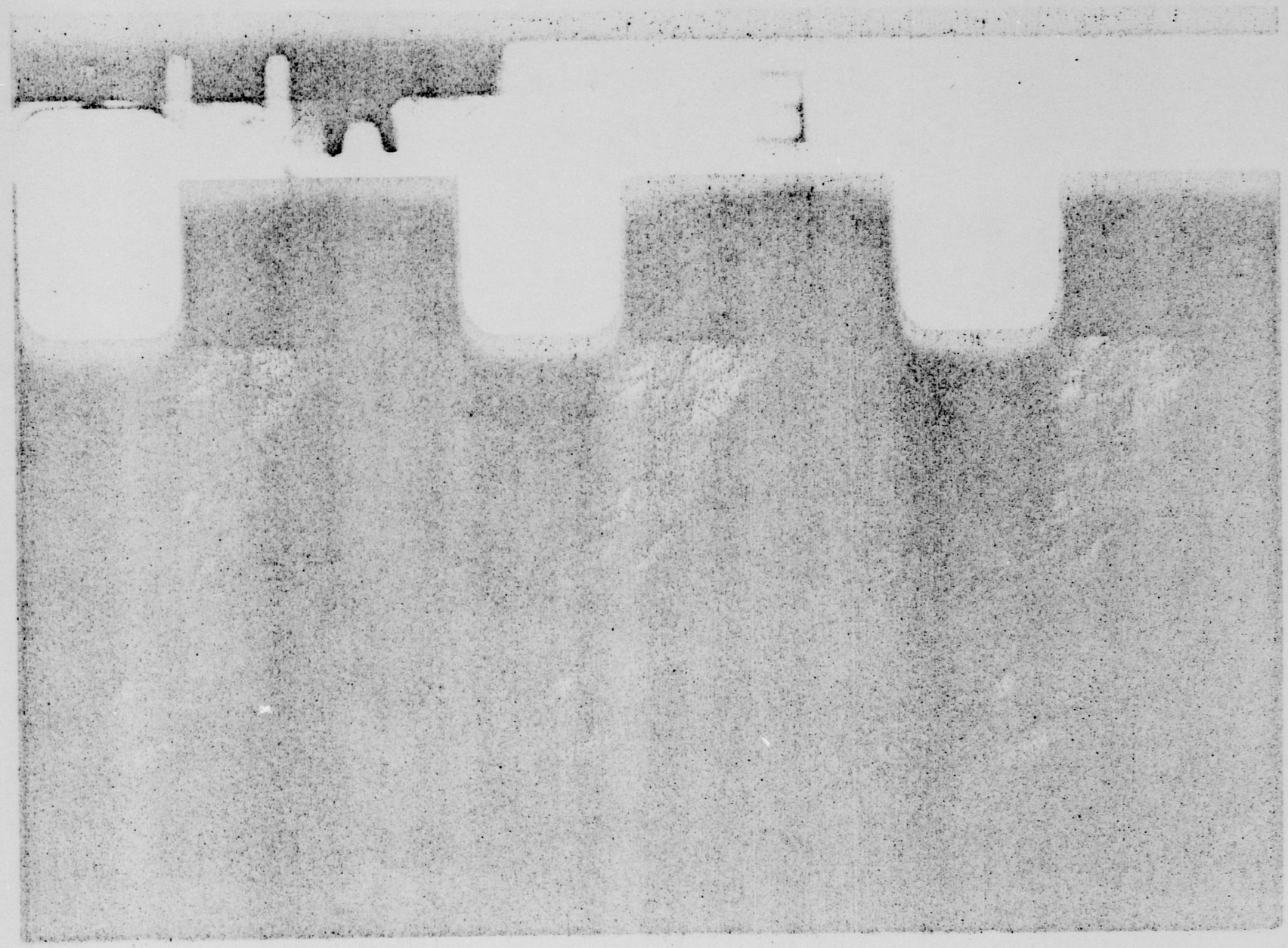
folder) and three (3) 8"x10"

photos and three (3) negatives;

and one (1) MAP

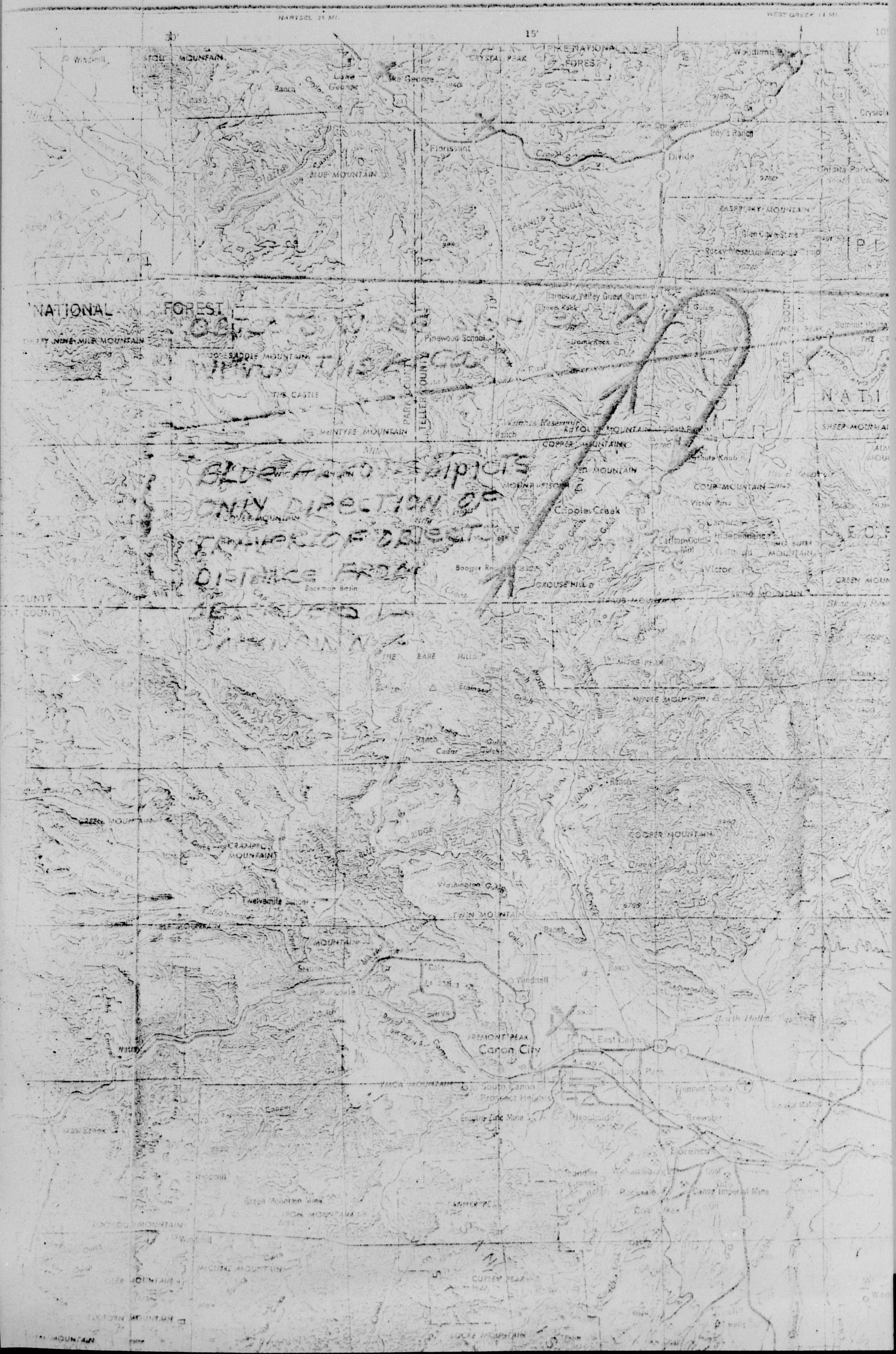






# WESTERN UNITED STATES 1:250,000


FAIRPLAY 16 MI.
HARTSEL 3 MI.
HARTSEL 3 MI.
106°00'
39°00'
45'
1 900 000 FEET (SOUTH)
1 800 000 FEET (SOUTH)
PIKE NATIONAL FOREST
Antero Reservoir
Dismantled railroad
Ranch
Windmill
Antero Junction
Trout Creek Pass
South Platte River
Dismantled railroad
Buffalo Slough
Abandoned ranch
Abandoned ranch
Current Creek Pass
Cattle Rock
Cattle Rock Gulch
SAN ISABEL NATIONAL FOREST
CHAFFEE COUNTY
PARK COUNTY
FREMONT COUNTY
BLACK MOUNTAIN
CAMERON MOUNTAIN
Ranch
Ranch
Ranch
Abandoned ranch
GREEN MOUNTAIN
Cloria Station
Wellsville
Little Badger Creek
PARK MOUNTAIN
NORTH BURRO MOUNTAIN
INDIAN MOUNTAIN
SOUTH BURRO MOUNTAIN
BURNED TIMBER MOUNTAIN
BEAR MOUNTAIN
Dirty Gulch
Lioneta
Stout Creek School
Stout Creek
Hayden Gulch
SIMMONS PEAK
HUNTS PEAK
BUSHNELL PEAK
GALENA PEAK
SAN ISABEL NATIONAL FOREST
SAN JUAN MOUNTAINS
SAGUACHE COUNTY
FREMONT COUNTY
Ranch
Ranch
Ranch

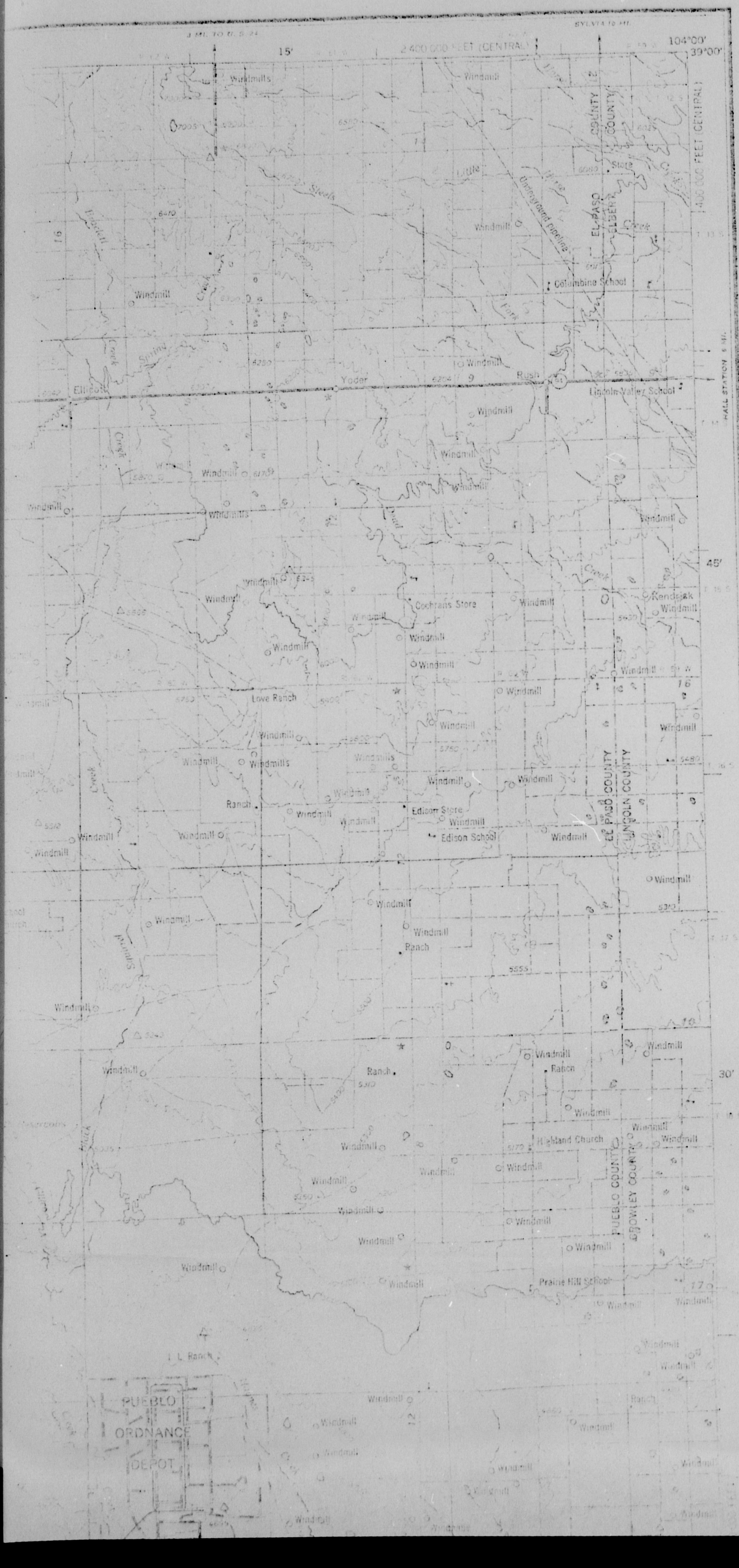

HARTSEL 25 MI.
WEST GREEK 11 MI.
15'
PIKE NATIONAL FOREST
CRYSTAL PEAK
SPRUCE MOUNTAIN
Windmill
Lake George
Ranch
Florissant
Creek
BLUE MOUNTAIN
Divide
Boy's Ranch
Woodland Park
Crystola
RASPBERRY MOUNTAIN
Glen Cove Store
Rocky Mountain Arsenal
NATIONAL FOREST
THIRTY NINE MILE MOUNTAIN
SADDLE MOUNTAIN
Pinewood School
Baines Valley Guest Ranch
Sheep Rock
Dome Rock
Gulch
THE CASTLE
McINTYRE MOUNTAIN
PARK COUNTY
TELLER COUNTY
Reservoir
Ranch
COPPER MOUNTAIN
Chute Knob
SHEEP MOUNTAIN
COVE MOUNTAIN
Victor Pass
Cripple Creek
Independence
Carlton Gold Mill
Victor
GROUSE HILL
Booger Red
Beckman Basin
THE BARE HILLS
Elkins Seat
Ridge
Gulch
Ranch
Cedar
Gulch
WILTSEE PEAK
NIPPLE MOUNTAIN
Cedar
Creek
Ranch
GREEN MOUNTAIN
CRAMPTON MOUNTAIN
Gulch
Twelvemile
Washington Gulch
TWIN MOUNTAIN
Twin
Gulch
Ranch
Cole
Mica
Vandnall
Ranch
Parkdale
Drives
FREMONT PEAK
Canon City
East Canon
Lincoln Park
South Canon
Prospect Heights
Fremont County
Brewster
Brookside
Florence
Canon Imperial Mine
YMCA MOUNTAIN
Green Mountain View
IRON MOUNTAIN
TANNER PEAK
McCLURE MOUNTAIN
CURLEY PEAK
ELKHORN MOUNTAIN
Bush Hollow
Creek
Ranch
Ranch
Ranch

# PUEBLO

WEST CREEK 14 MI.
DENVER 57 MI.
1 MI. TO COLORADO 270
7 MI. TO COLORADO 50
EASTONVILLE 5 MI.
105°00'
45'
Beacon
BURGESS ROAD
Pine Valley
Pine Valley Ranch
Cryscola Inn
RED MOUNTAIN
Saint Joseph Convent
Flying W Ranch
Bois Ranch
Divide
RASPBERRY MOUNTAIN
Glen Cove Store
Cascade
Garden of the Gods
PIKE
Manitou
Colorado City
THE CRATER
Cameron Cone
SUGAR LOAF MOUNTAIN
MOUNT ARTHUR
MAYS PEAK
NATIONAL
SHEEP MOUNTAIN
ALMAGRE MOUNTAIN
STOVE MOUNTAIN
COUR MOUNTAIN
MOUNT ROSA
MOUNT BIG CHIEF
Poseidon
FOREST
CRAY JACK PEAK
Emerald Valley Ranch
GREEN MOUNTAIN
Hecks Camp
TELLER COUNTY
FREMONT COUNTY
MOUNT PITTSBURG
Turkey Creek Ranch
Little School
TIMBER MOUNTAIN
WILD MOUNTAIN
Red Creek Ranch
Brush Hollow
Florence County
Service station
Florence
Penrose
Portland
Pikeview
Gravel pit
Roswell
Garden Ranch (closed)
Templeton Gap
Windmill
Eismere
Knob Hill
COLORADO SPRINGS
Manitou
Peterson Field
Broadmoor
Skinners Ranch
Little Johnson Reservoir
Big Johnson Reservoir
Camp Carson
Soil Conservation Department
CAMP CARSON
Fountain
Fountain Reservoir
MILITARY
RESERVATION
Calhan Reservoir
Midway
Beacon
Hackel Siding
Stone City
Ranch
Windmill
Corral
Pigeon Station
Underground pipeline
Hobson Ranch
ABANDONED
Oil wells
Pumping station
Templeton
Falcon
Windmill
Slate Ranch
Kane Ranch
HANOVER
Holcomb
Yoder
Hollow
Creek
Ranch
Windmill
Abandoned
Coal
Windmill
Windmill
Windmill

EASTONVILLE 5 MI.
PEYTON 3 MI.
3 MI. TO U. S. 24
7 MI. TO COLORADO 50
30'
15'
45'
BURGESS ROAD
VOLLMER ROAD
CHICAGO ROCK ISLAND AND PACIFIC
JUDGE ORR ROAD
Pumping station
Windmill
Falcon
Ranch
Community Building
Windmills
TEMPLETON GAP ROAD
Templeton Gap
Windmill
Haegler Ranch
BLANEY
Windmill
Windmill
Windmill
Elbmere
East Fork Sand Creek
ROAD
Windmill
Ellicott
Yoder
Tel Company
Windmill
Windmill
Windmill

NJ 13-5


3 MI. TO U. S. 24
15'
2400 000 FEET (CENTRAL)
SYLVIA 10 MI.
104°00'
39°00'
2400 000 FEET (CENTRAL)
Windmills
Windmill
Little
Steele
Underground pipeline
Creek
Columbine School
Yoder
Rush
Lincoln Valley School
Elliott
Windmills
Cochrans Store
Kendrick
Love Ranch
Edison Store
Edison School
Ranch
Highland Church
Prairie Hill School
EL PASO COUNTY
LINCOLN COUNTY
ELBERT COUNTY
PUEBLO COUNTY
CROWLEY COUNTY
HALL STATION 5 MI.
45'
30'
PUEBLO ORDNANCE DEPOT
I L Ranch

Scale 1:250,000

5 0 5 10 15

5 0 5 10 15 20 25 30 Miles

5 0 5 10 15 Nautical Miles

CONTOUR INTERVAL 200 FEET

WITH SUPPLEMENTARY CONTOURS AT 100 FOOT INTERVALS

TRANSVERSE MERCATOR PROJECTION

1955 MAGNETIC DECLINATION FOR THIS SHEET VARIES FROM 14°00' EASTERLY FOR THE CENTER OF THE WEST EDGE TO 13°35' EASTERLY FOR THE CENTER OF THE EAST EDGE. MEAN ANNUAL CHANGE 15.0'02' WESTERLY

FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER 2, COLORADO OR WASHINGTON 25, D. C.

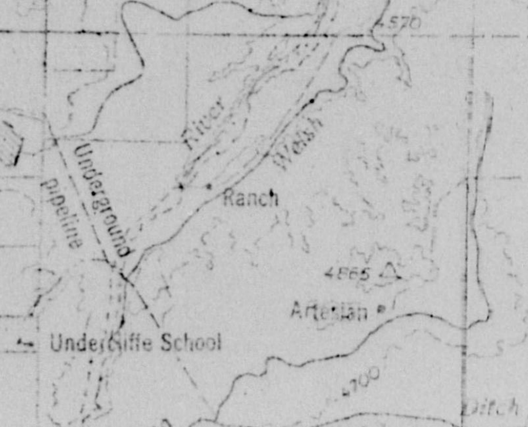
RESERVATION

EL PASO COUNTY
PUEBLO COUNTY

PUEBLO

Little School
Timber Mountain
Windmill
Military
Red Creek Ranch
Sullivan Canyon
Rock quarry
White Butte
Corral
Stone City
Fuller Reservoir
Ranch
Windmill
Fremont County
Pueblo County
Arkansas River
Hobson Ranch
Windmill
Abandoned
Siphon
Swallows
Atchison, Topeka and Santa Fe
Colorado
Pueblo Flood Control Dam
Denver and Rio Grande Western
Siphon
Livesey
Siphon
Goodnight
Pueblo Municipal No 1
Siphon
Siphon
Tower
Windmill
Ranch
Good Pasture
Turtle Buttes
Valley View
Ranch
Ranch
Rock Creek
Spring Hydrant
Windmill
Ranch
Steam Beacon
Burnt Mill Road
Market Station
Windmill
Windmill
Ranch
Windmill
Windmill
Racetrack
Ranch
Windmill
Huerfano Lake
Colorado and Southern
Underground pipeline
Pipeline
Pipeline

RELIABILITY DIAGRAM




A. Large scale topographic maps, photogrammetric, 1950-51.
B. Large scale topographic maps, photogrammetric and controlled ground surveys, 1954.
1. Stereocompiled from 1953-54 aerial photography.
2. Planimetry revised from 1953-54 aerial photography.

TOWNSHIP OR RANGE LINE

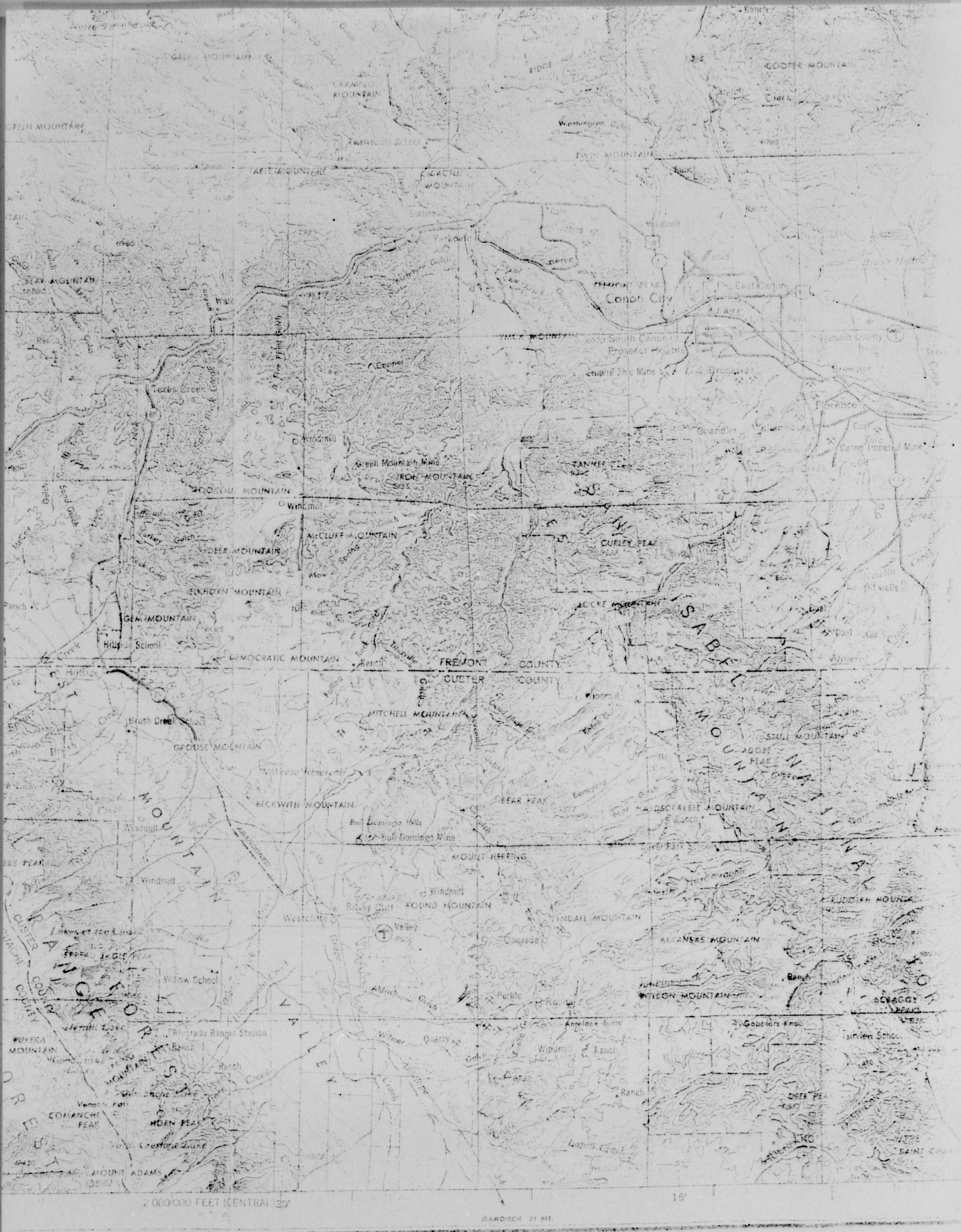
LAND GRANT BOUNDARY

INTERIOR-GEOLOGICAL SURVEY, WASHINGTON, D. C.-1958-NS
M R-0138

SECTIONIZED TOWNSHIP

| | | | | | |
|---|---|---|---|---|---|
| 6 | 5 | 4 | 3 | 2 | 1 |
| 7 | 8 | 9 | 10 | 11 | 12 |
| 18 | 17 | 16 | 15 | 14 | 13 |
| 19 | 20 | 21 | 22 | 23 | 24 |
| 30 | 29 | 28 | 27 | 26 | 25 |
| 31 | 32 | 33 | 34 | 35 | 36 |

# PUEBLO, COLORADO




2 000 000 FEET (CENTRAL) 30°

16'

GARDNER 21 MI.

LEGEND

ROAD DATA 1954

Figures in red denote approximate distances in miles between stars

ROADS

Hard surface, heavy duty
More than two lanes wide — 3 LANES | 4 LANES
Two lanes wide; Federal route marker — (15)
Hard surface, medium duty
More than two lanes wide — 3 LANES | 4 LANES
Two lanes wide; State route marker — (10)
Improved light duty
Unimproved dirt
Trail

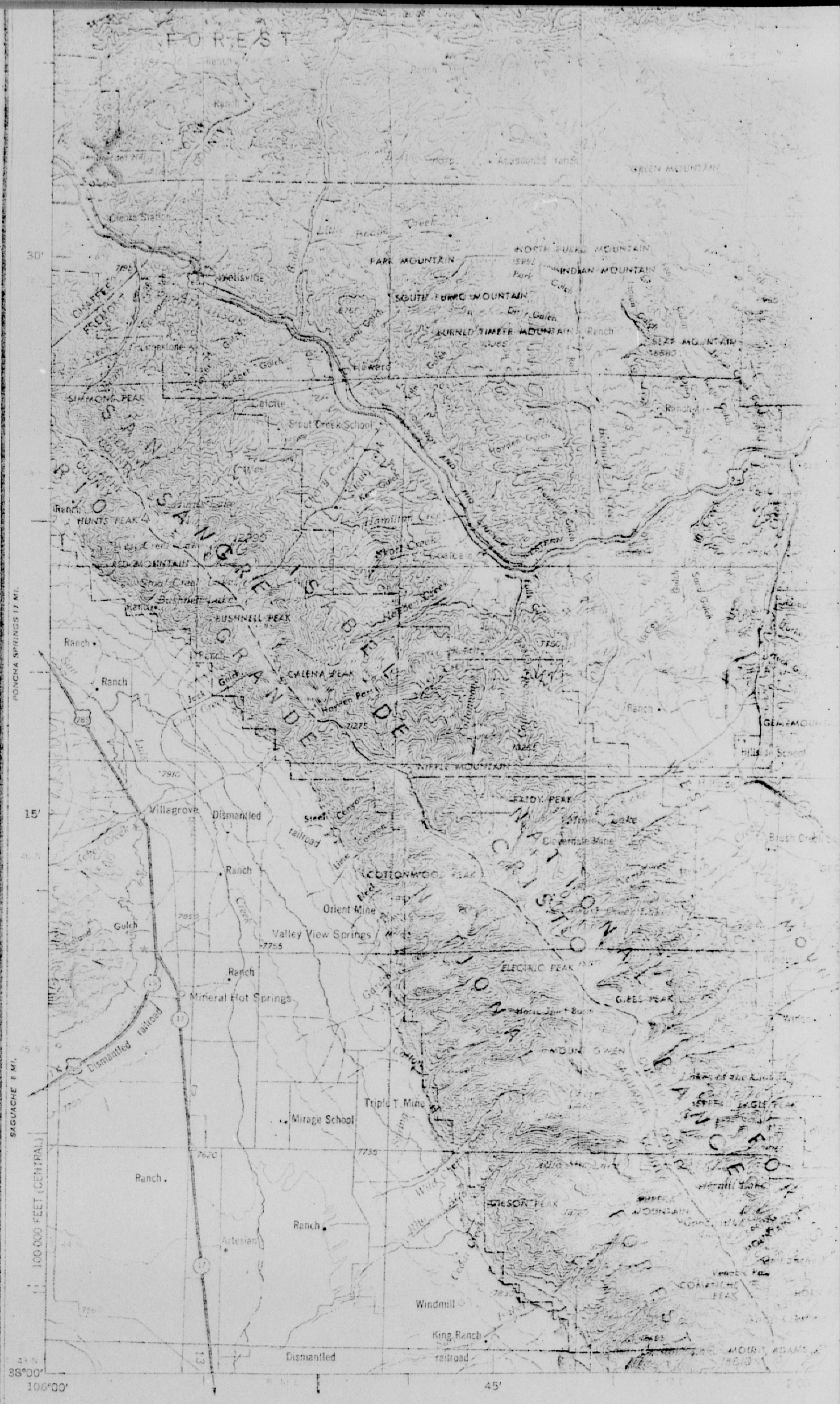
Landmarks: School; Church; Other
Horizontal control point
Spot elevation in feet — 7221
Marsh or swamp
Intermittent or dry stream
Power line

LOS ANGELES
OMAHA
GALVESTON
Laramie
Grand Coulee
Sun Valley

WITH SU

1958 MAGNETIC DECL
EDGE TO 1 5'E AT C

FOR SALE BY U. S. GEOLOGICA




Prepared by the Army Map Service (BEPM), Corps of Engineers, U.S. Army, Washington, D.C. Compiled in 1956 by photogrammetric methods and from Colorado, 1:25,000, 1:50,000, AMS, 1950-51, Colorado, 1:24,000, USGS, 1954. Planimetric detail revised by photoplanimetric methods. Horizontal and vertical control by USGS, USC&GS and CE. Photography field annotated 1954.

100,000-foot grids based on Colorado coordinate system, central and south zones

10,000-meter Universal Transverse Mercator grid ticks, zone 13, shown in blue

Figures in feet

POPULATED PLACES

Over 500,000

100,000 to 500,000

25,000 to 100,000

5,000 to 25,000

1,000 to 5,000

Less than 1,000

RAILROADS

Standard gauge. Single track Double or More Track

Narrow gauge

BOUNDARIES

International

State

County

Park or reservation