DMEA FORM 6 REFERENCE SLIP

REV. 12-56 DEFENSE MINERALS EXPLORATION ADMINISTRATION

TO:	INITIALS	DATE
1. Mails & Files		7/2
2.		
3.		
4.		
5.		
FROM: Code 700		

FOR: Check items for action desired

____ Action ____ Reply for signature of _____

____ Approval ____ Investigate ____ Surname

____ Comment ____ Recommendations ____ Signature

____ Conference ____ Rewrite _X_ File

____ Instructions ____ Your information

REMARKS:

DMEA-4919
United Western Minerals Company

Please retain these copies of mapo in case applicant requests further action, (under new regulations).

SEC., WASH., D.C. M8278

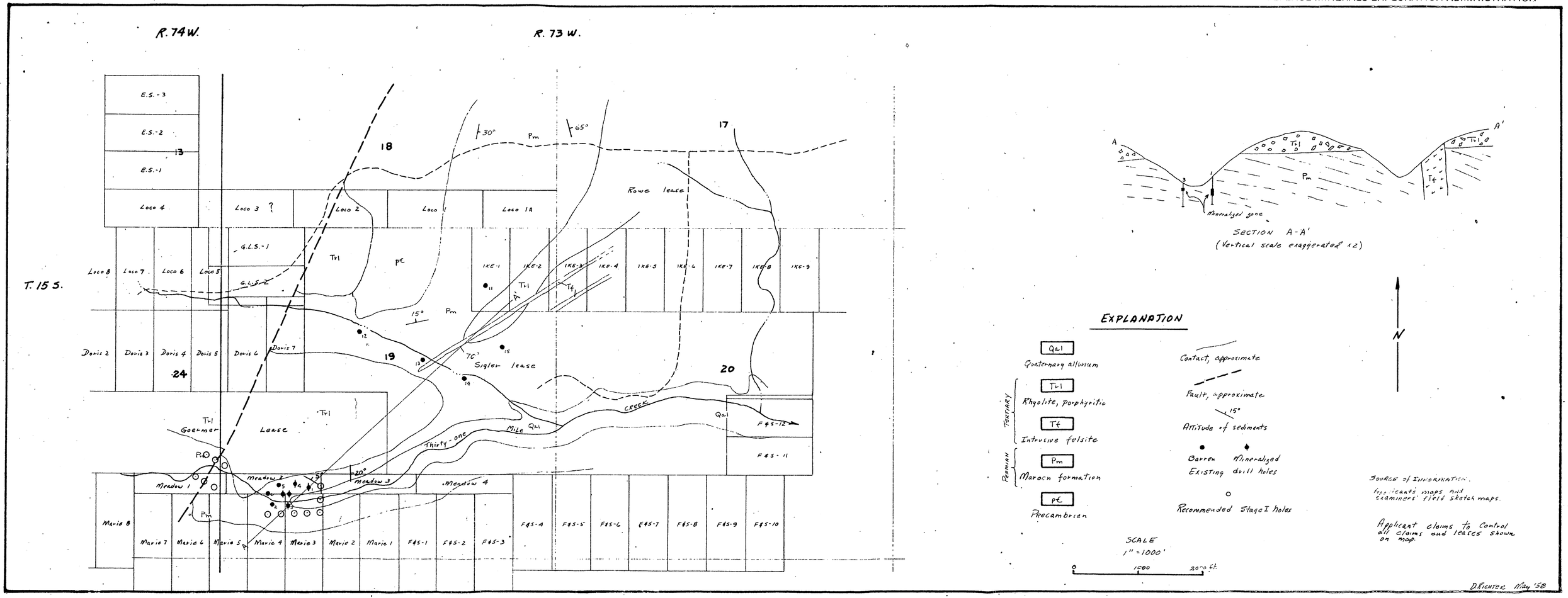
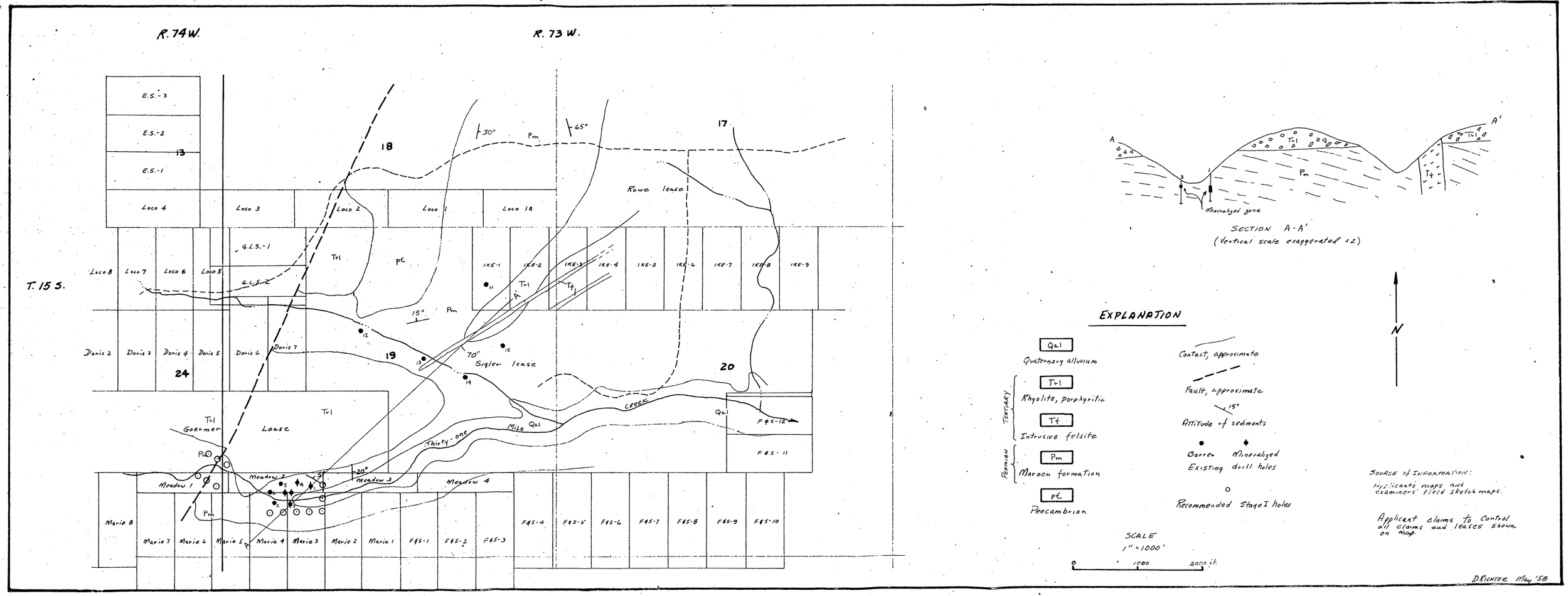


FIGURE 3 - GEOLOGIC MAP AND SECTION OF THE CHUMWAY PARK AREA, SHOWING RECOMMENDED EXPLORATION, UNITED WESTERN MINERALS COMPANY, PARK Co., Colo.

EXTRA COPY
D M E A
RECEIVED JUN 6 1958
DATE | INITIALS | CODE



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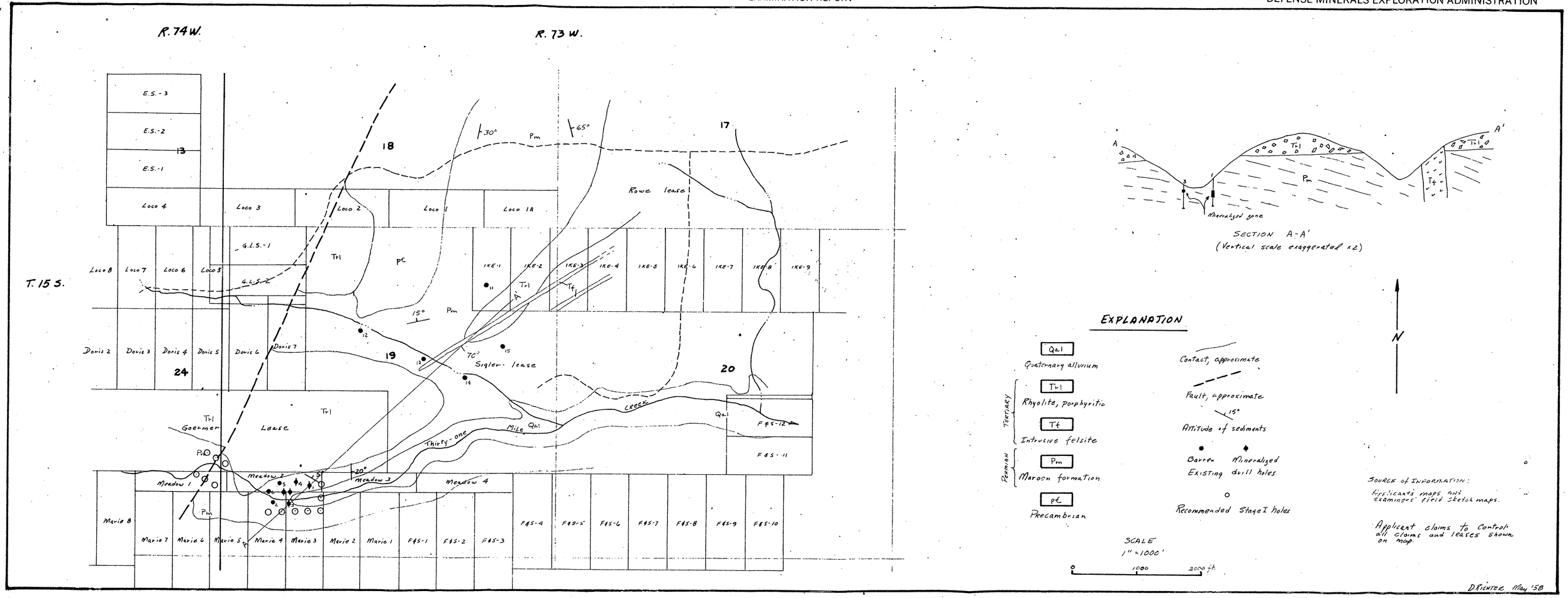

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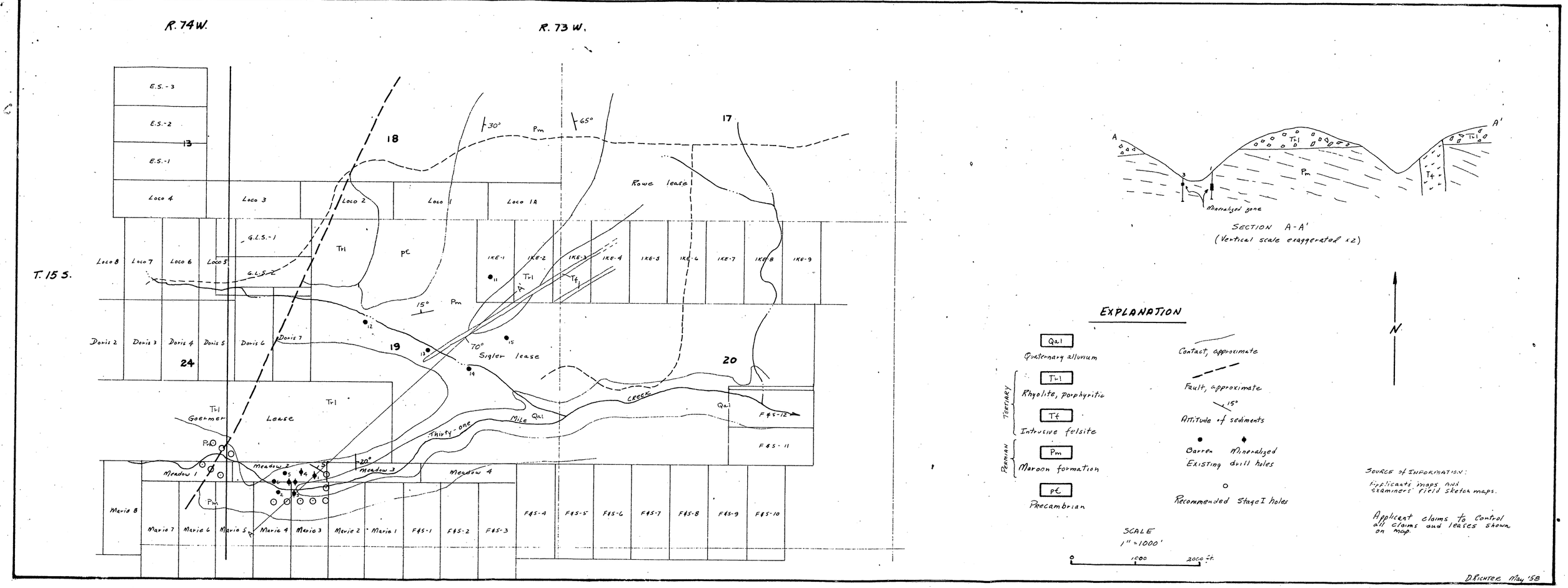

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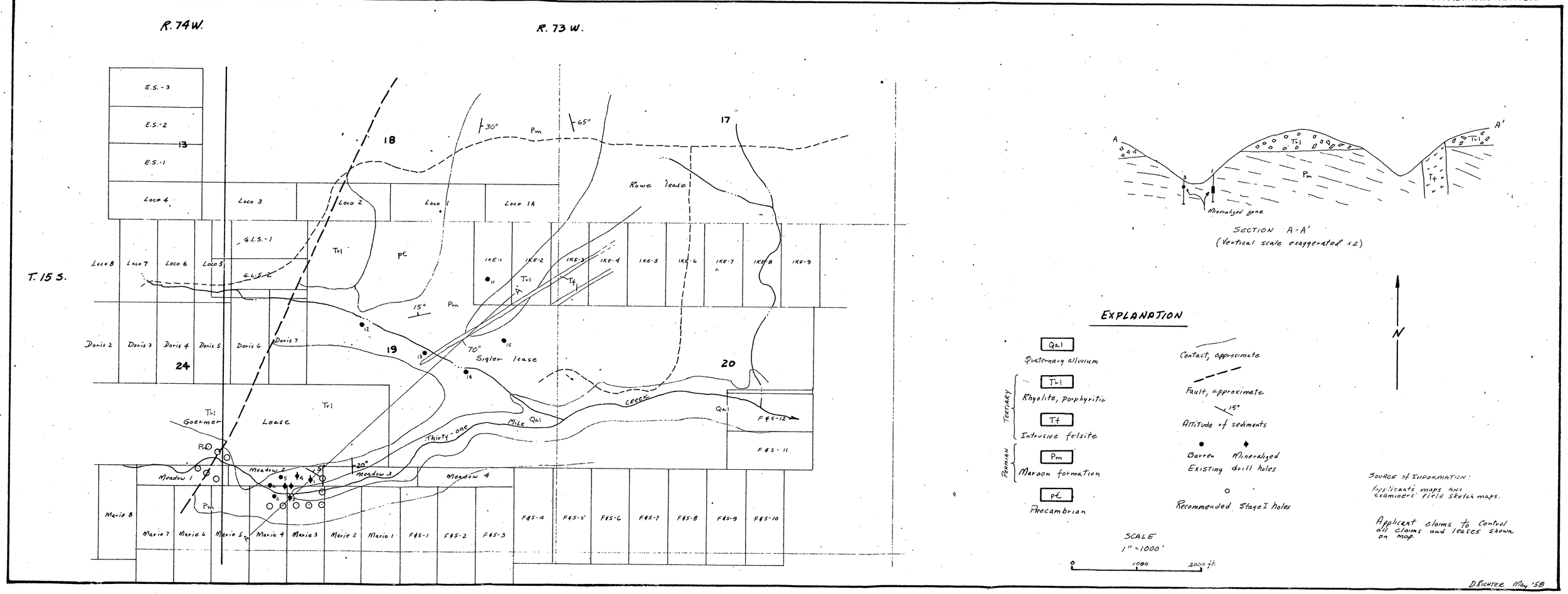

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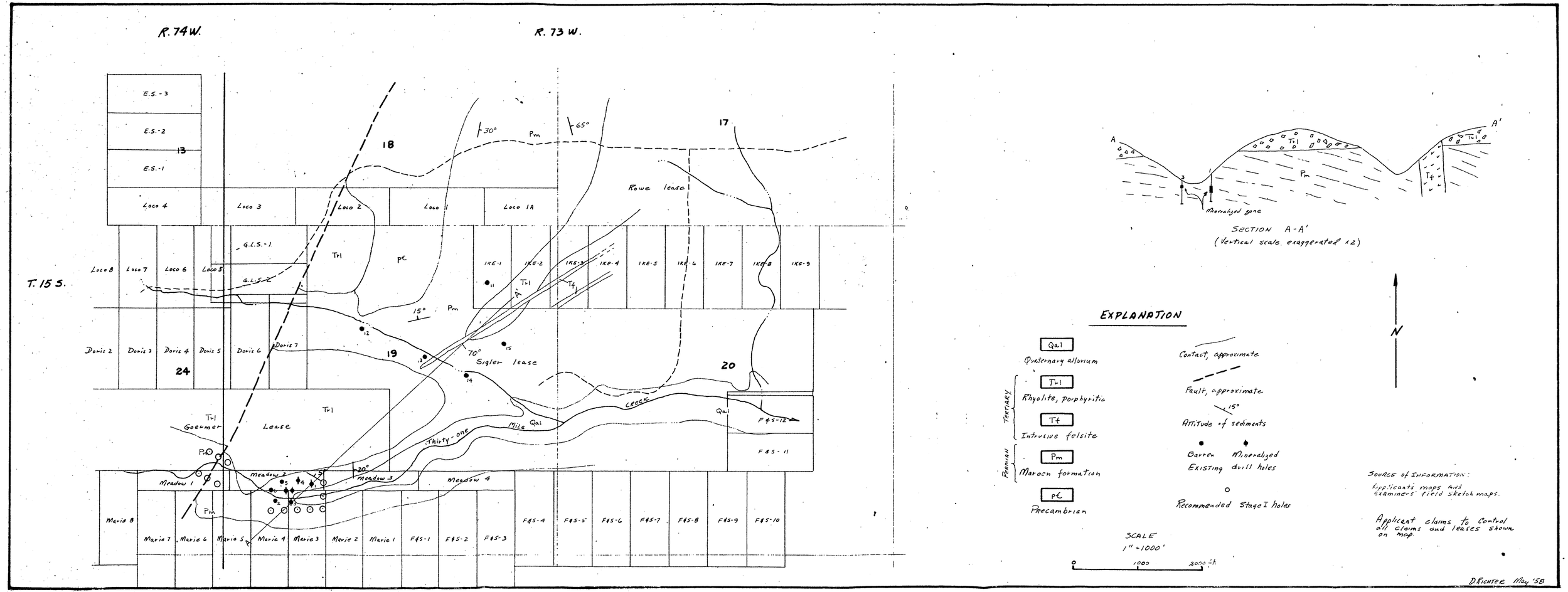
INITIALS



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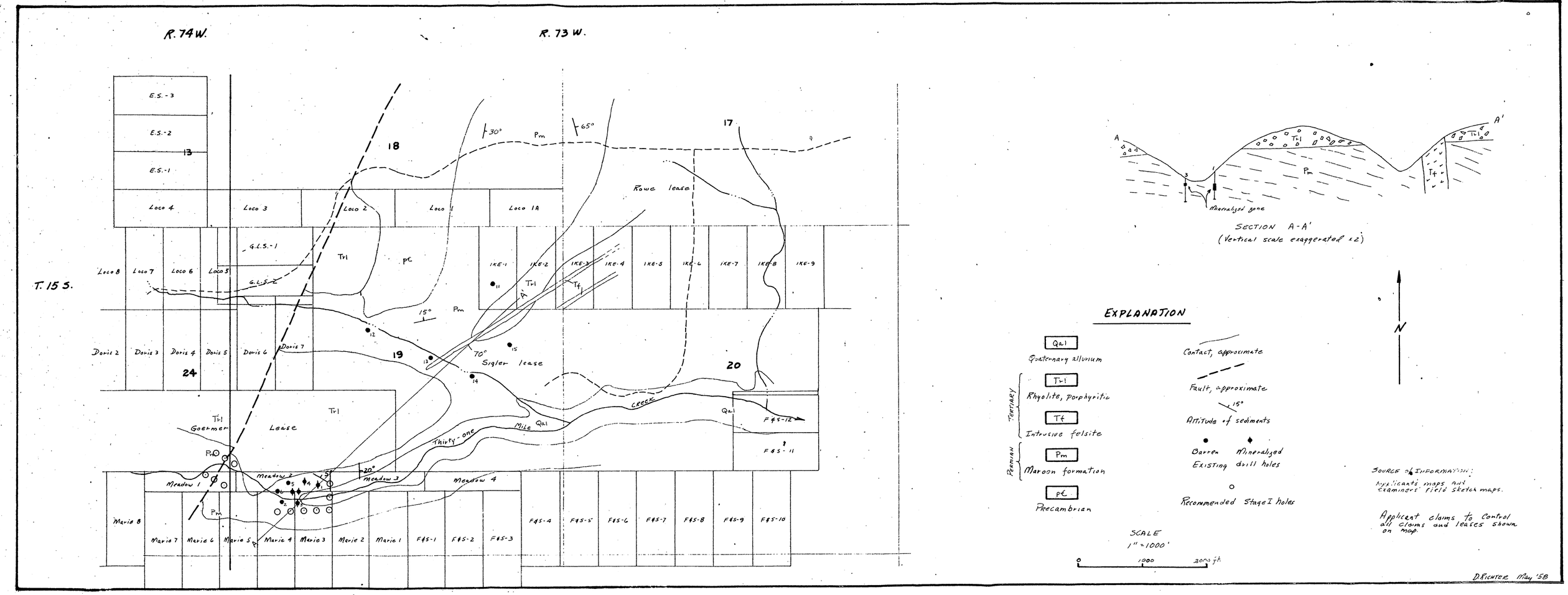
EXTRA COPY
DMEA
RECEIVED JUN 6 1958

NAME	INITIALS	CODE



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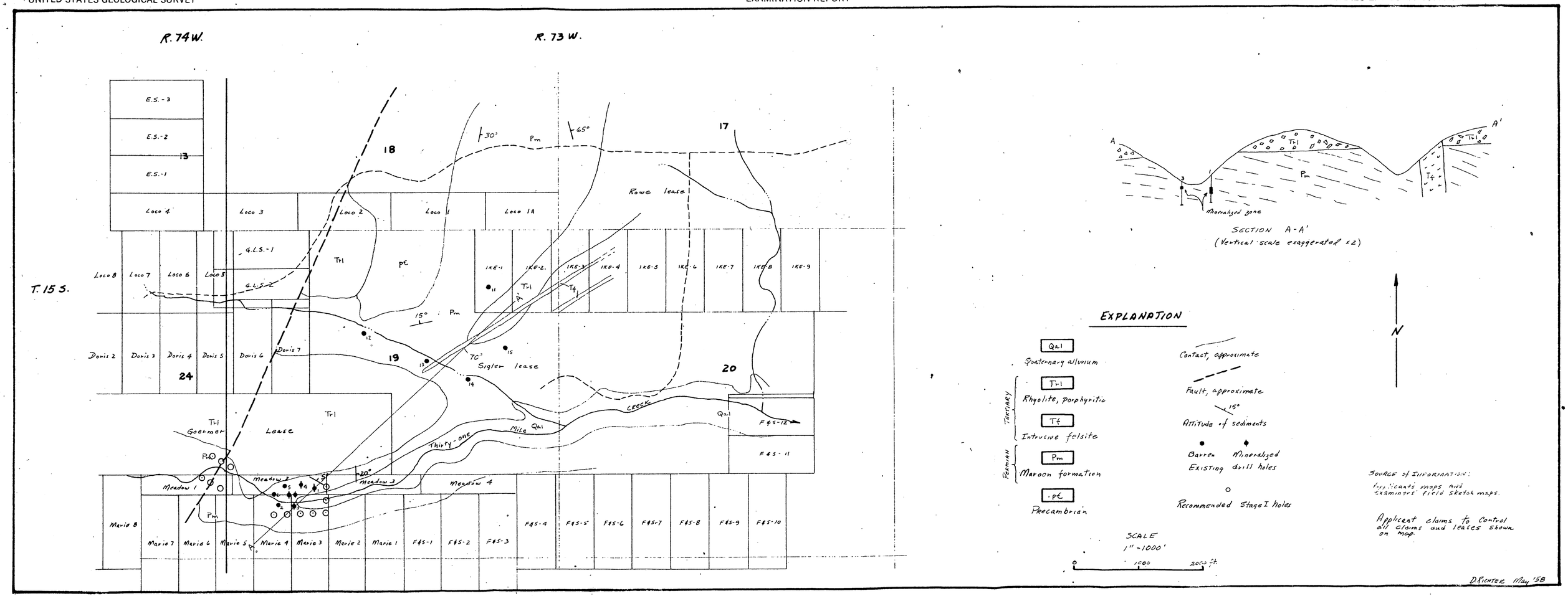
EXTRA COPY
DMEA
RECEIVED JUN 6 1956
DATE INITIALS COPY



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EXTRA COPY
D M E A
RECEIVED JUN 6 1958
DATE INITIALS STATUS
COPY

MAPS, TECHNOLOGIC
INFORMATION, ETC.

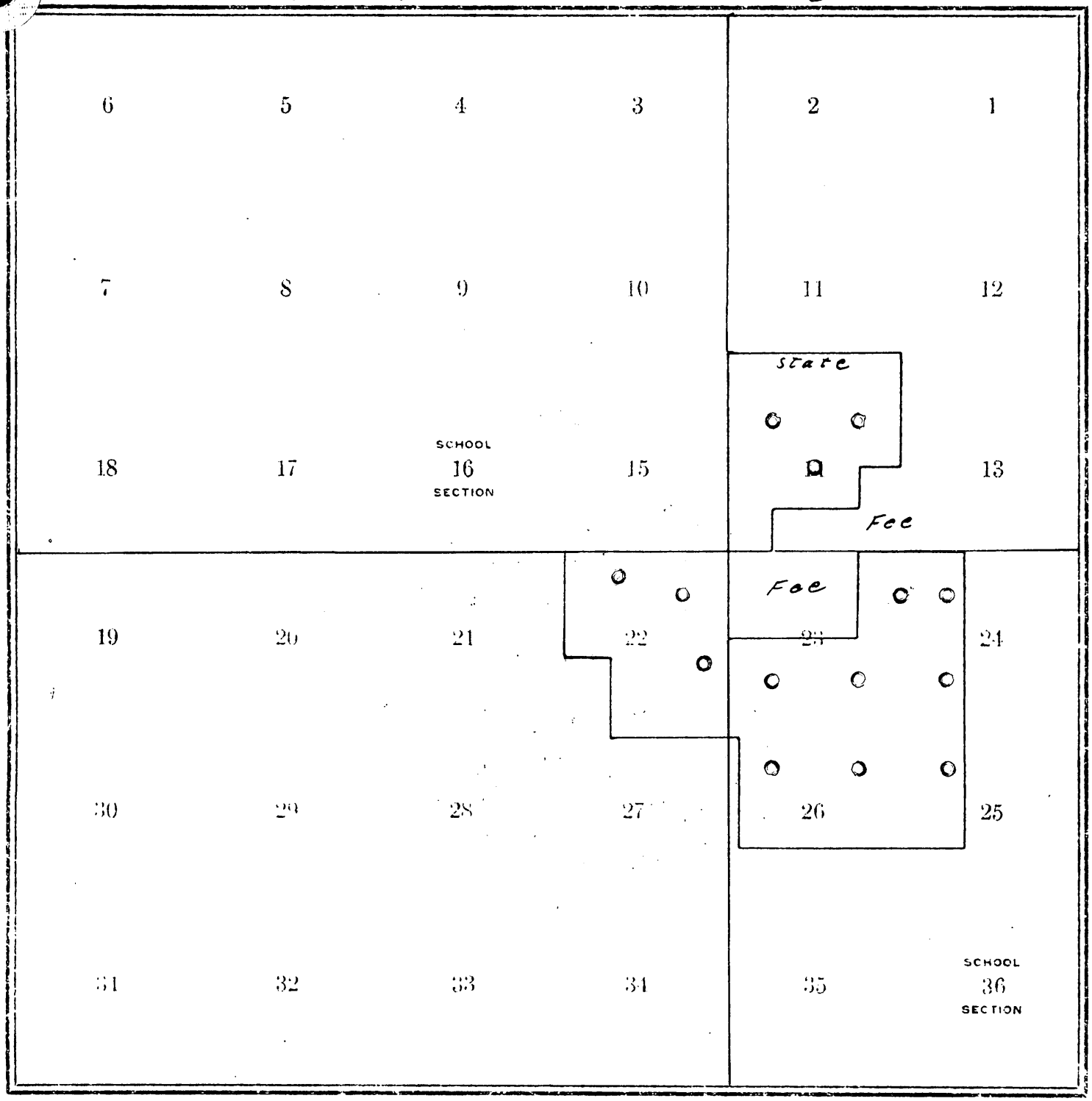
Date of Plat 12/10/57

Park County,

Township 11 S Range 75 W

Gamma Claims

33½—Out West Printing and Stationery Co., Colorado Springs, Colo. *



REFERENCES

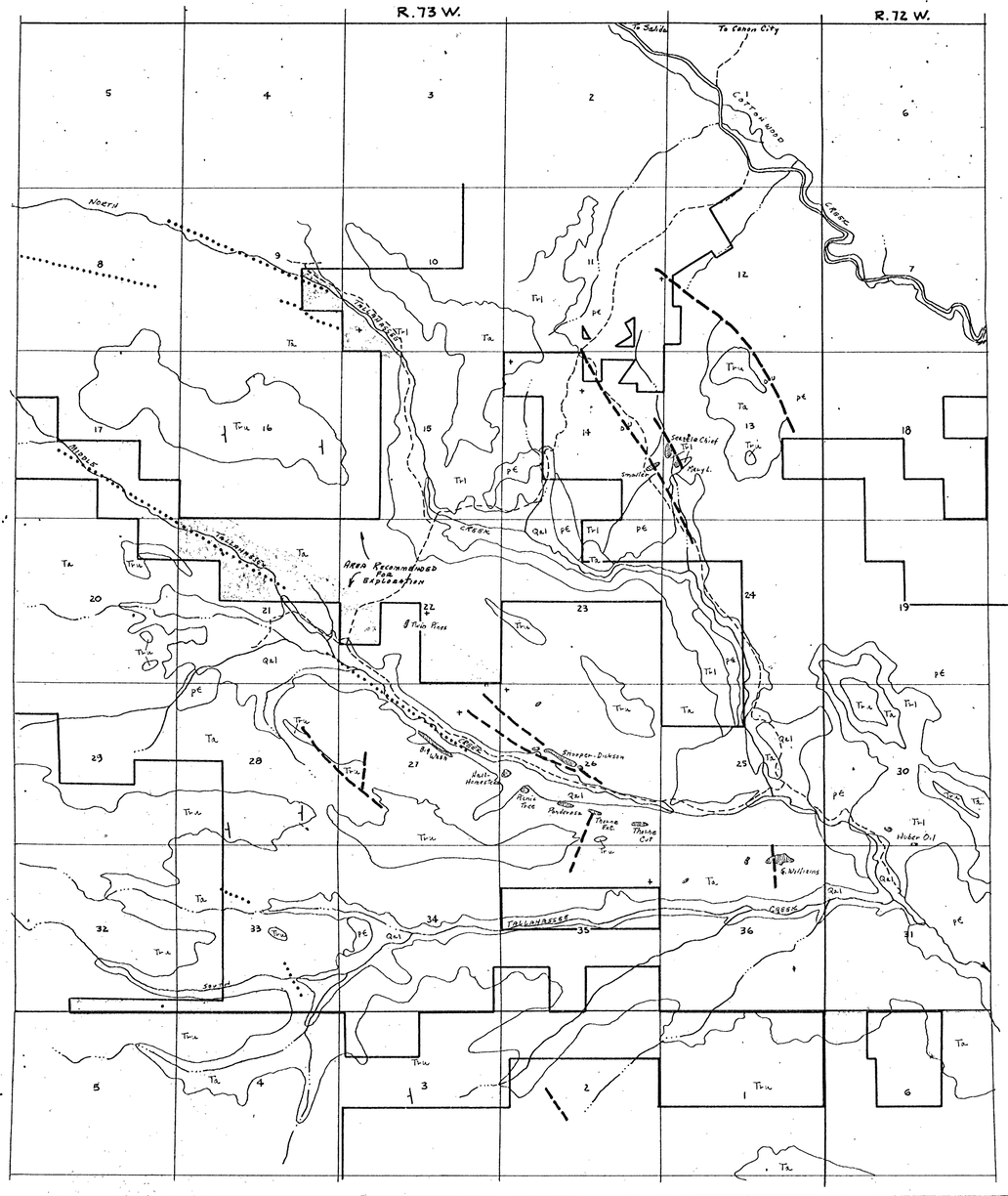
Entered Land.
Homestead Application.
Pre-Emption Filing.
Timber Culture Claim.
Grant.
Coal Filing.
Coal Entry.
Desert Entry.
Oil Shale Placer Claims.
Oil Placer Claims.

Lands not otherwise marked are vacant

Scale:
32 chains to one-half inch.

⊗ Drill holes (proposed)

11



EXPLANATION

Qal — Quaternary alluvium, including landslides.

Oligocene-Miocene: Trv — Rhyolite, upper

Ta — Andesite breccia, including volcanic conglomerate

Tr-l — Rhyolite, lower, including basal Tertiary arkose

Eocene

Thirty-nine mile volcanic series

pE — Precambrian

Contact, approximate

Faults, approximate and inferred

Distinct lineations (from Geophoto map)

Twin Pines — Uranium deposit

Radioactivity anomalies

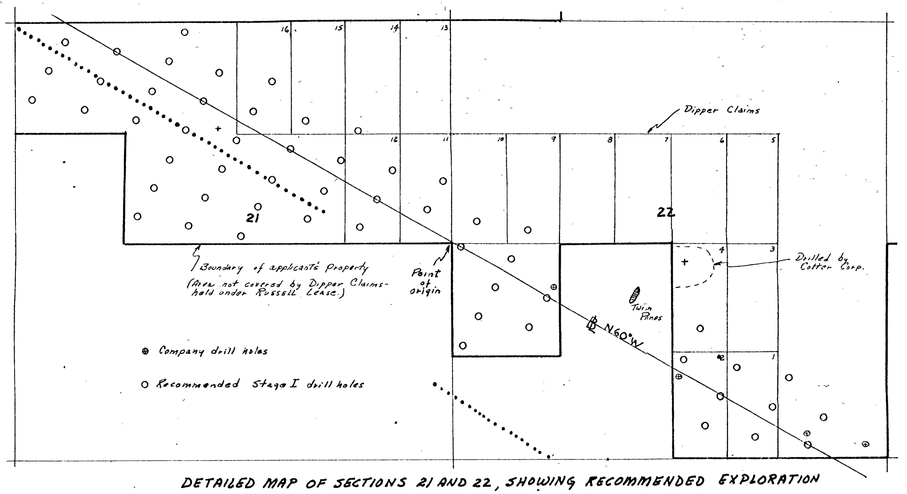
Roads

Boundary of applicant's property

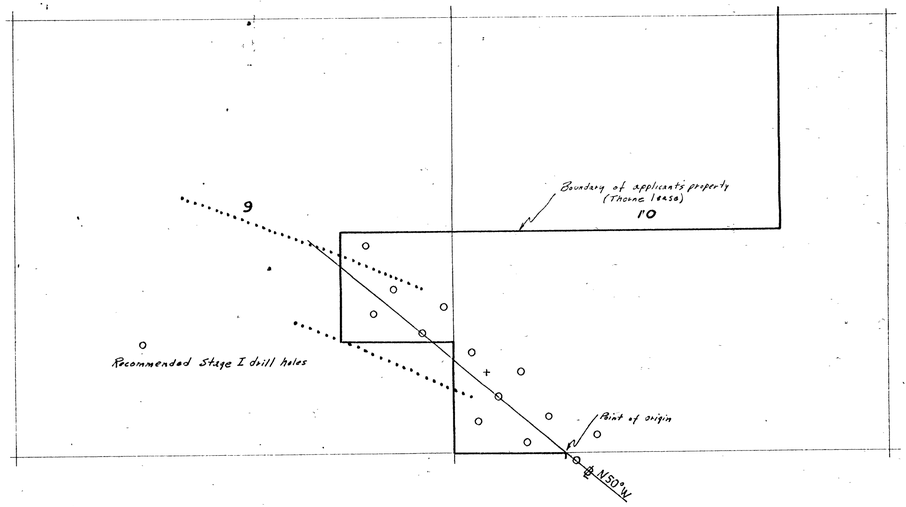
SCALE
2" = 1 mile
0 — 1/2 — 1 — 1 1/2 miles

N

SOURCES OF INFORMATION
Geophoto map submitted by applicant and MacPherson, B. REC. Rms No 1083, in prep.



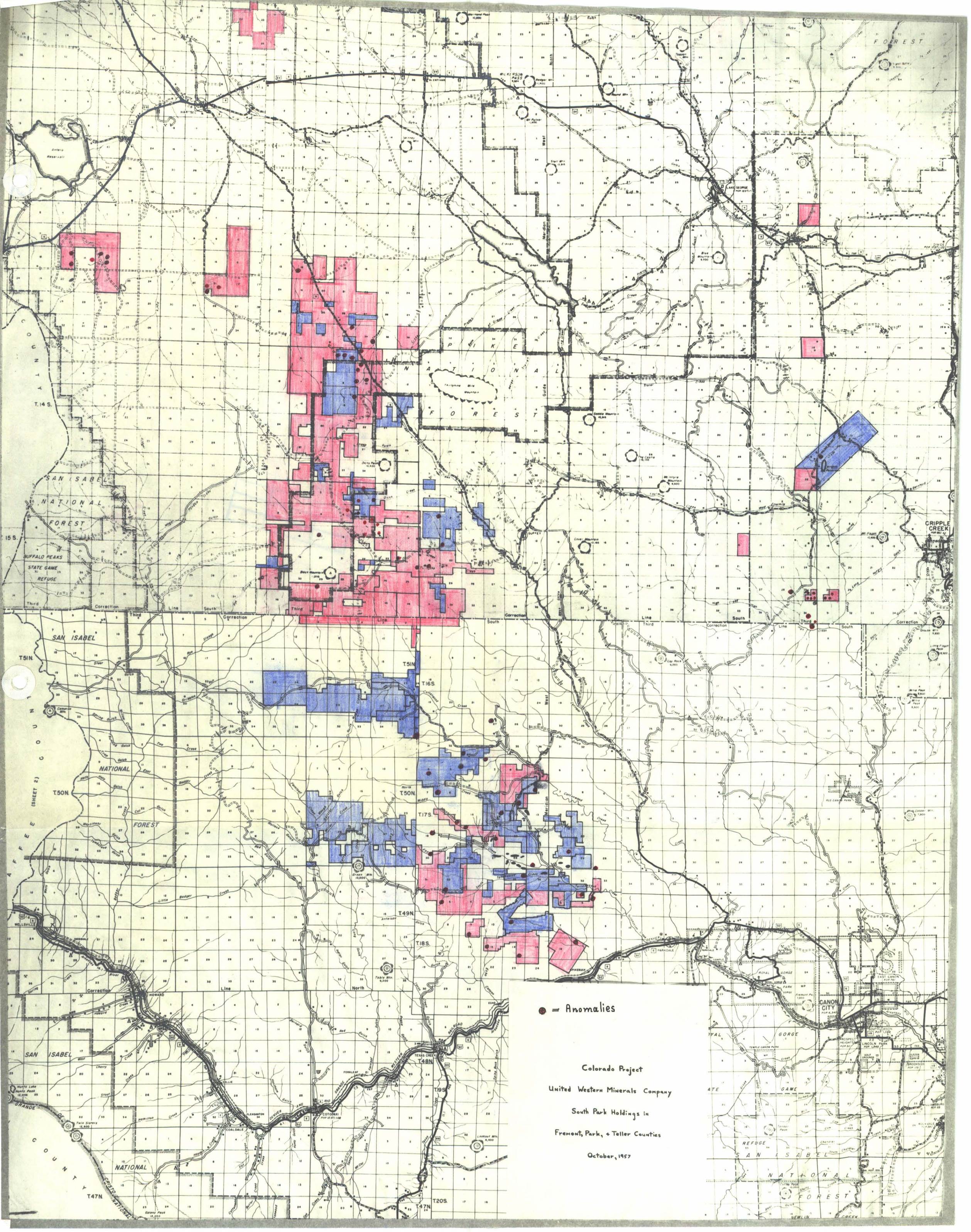
DETAILED MAP OF SECTIONS 21 AND 22, SHOWING RECOMMENDED EXPLORATION
SCALE
1" = 1000'
0 — 1000 — 2000 — 3000 ft.

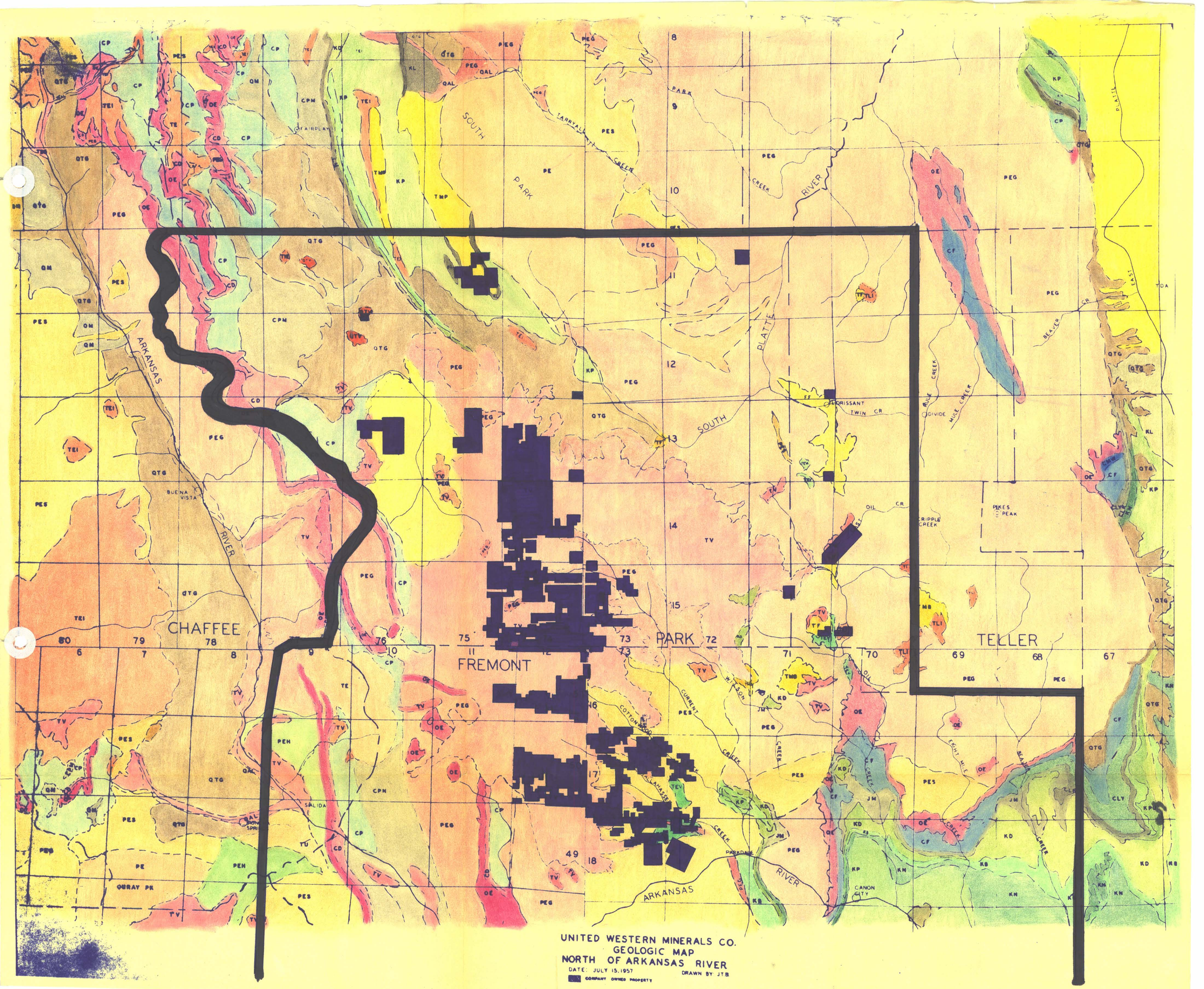


DETAILED MAP OF SECTIONS 9 AND 10, SHOWING RECOMMENDED EXPLORATION
SCALE
1" = 1000'
0 — 1000 — 2000 — 3000 ft.

D. Rorer May '58

FIGURE 2 - GEOLOGIC MAP OF THE TALLAHASSEE CREEK AREA, SHOWING RECOMMENDED EXPLORATION, UNITED WESTERN MINERALS COMPANY, FREMONT CO., COLO.

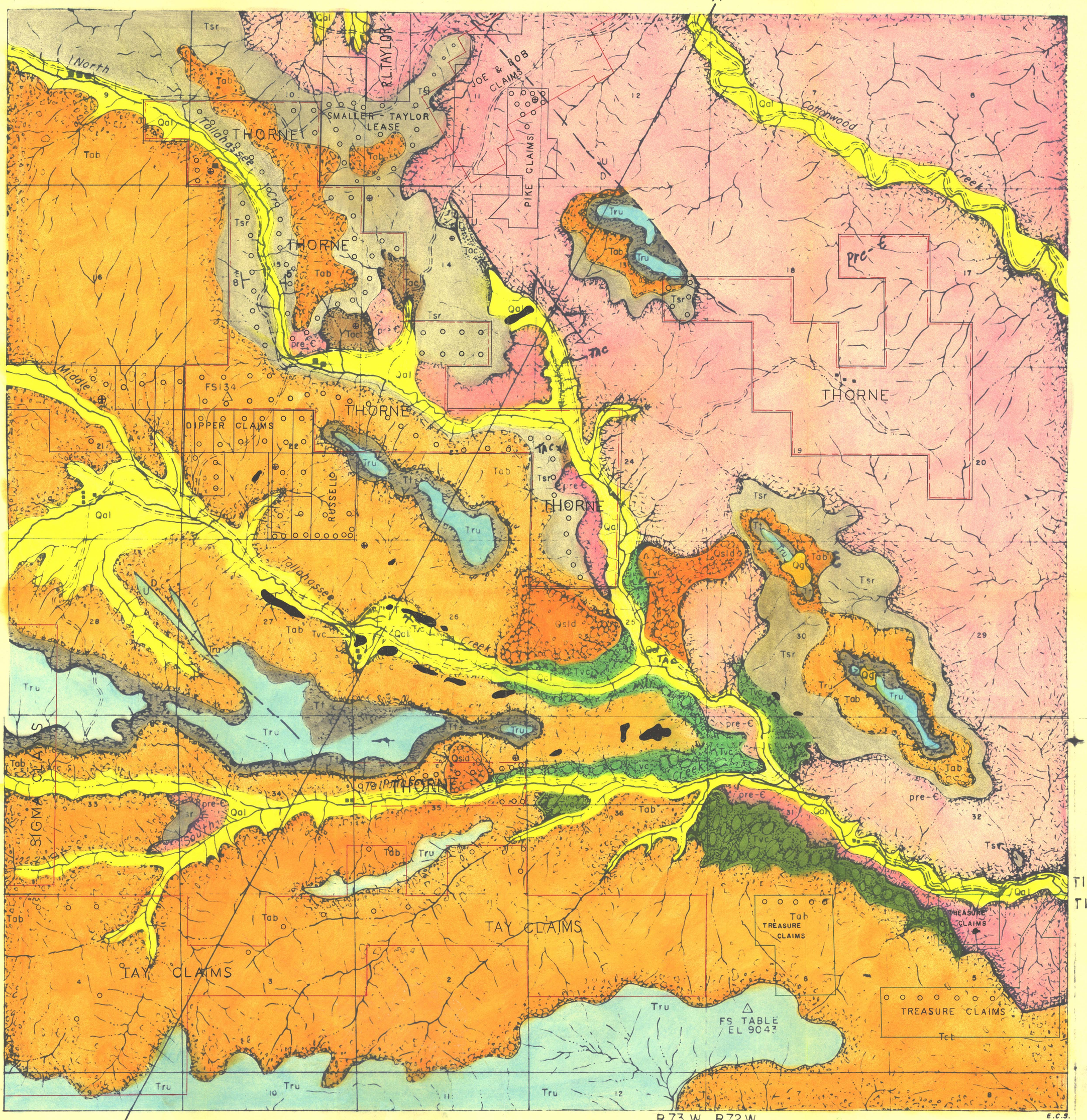

● = Anomalies
Colorado Project
United Western Minerals Company
South Park Holdings in
Fremont, Park, + Teller Counties
October, 1957
PIKE NATIONAL FOREST
SAN ISABEL NATIONAL FOREST
BUFFALO PEAKS STATE GAME REFUGE
CRIPPLE CREEK
CANON CITY
LAKE GEORGE
WELLSVILLE
HOWARD
PARKDALE
COTOPAXI
COALDALE
PLEASANTON
TEXAS CREEK
T.14 S.
T.15 S.
T5IN.
T50N.
T16S.
T17S.
T49N.
T18S.
T48N.
T19S.
T20S.
T47N.
Third Correction Line South
Ninth West Meridian



UNITED WESTERN MINERALS CO.
GEOLOGIC MAP
NORTH OF ARKANSAS RIVER

DATE: JULY 15, 1957 DRAWN BY JTB

COMPANY OWNED PROPERTY

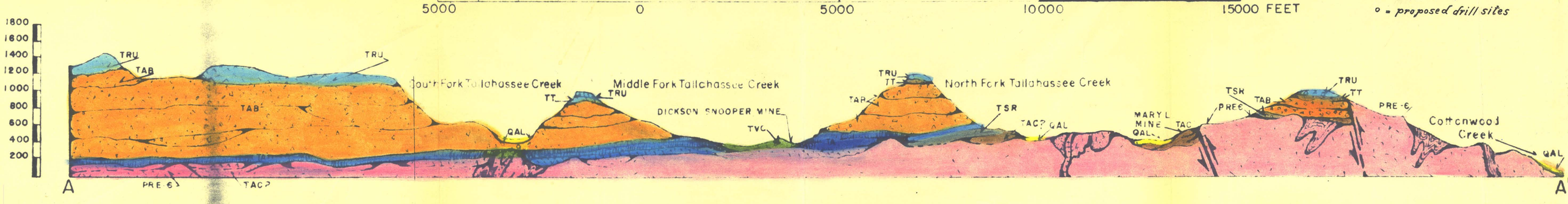


GEOLOGIC MAP OF THE TALLAHASSEE CREEK DISTRICT
FREMONT COUNTY, COLORADO

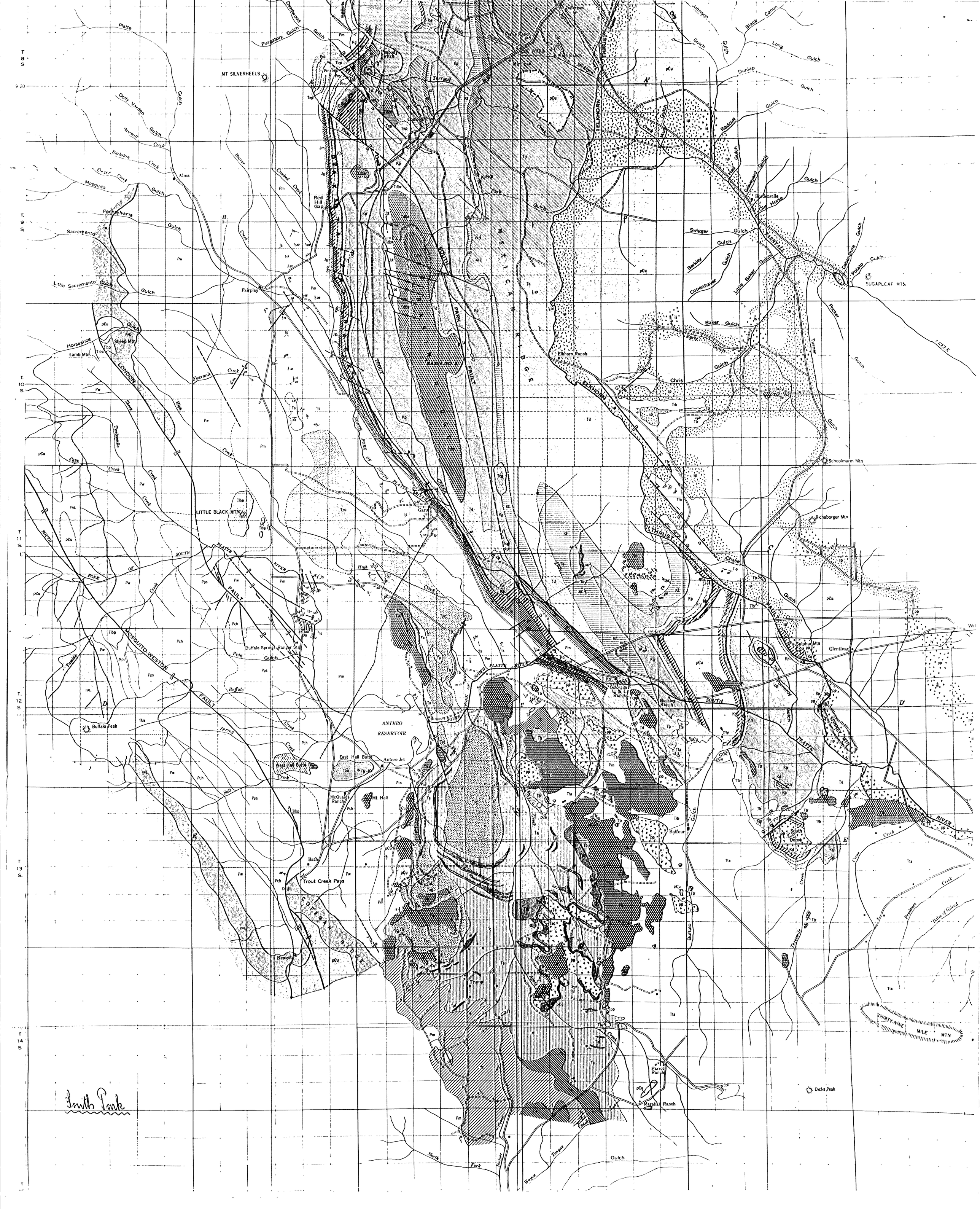
Base map from U.S. Dept of Agriculture, S.C.S. maps, S.W. Region, Colorado 266 and 267.
Geology by Bruce A. Mac Pherson. - 1956

1 0 1 2 3 MILES
5000 0 5000 10000 15000 FEET

= ore bodies
⊕ = Anomalies
○ = proposed drill sites



GEOLOGIC SECTION A-A'
VERTICAL EXAGGERATION 2x


MT SILVERHEELS
Alma
Fairplay
Red Hill Gap
Terryall
Mineral
Elkhorn Ranch
Elkhorn
Hartsville
Swigger Gulch
Little Baker Gulch
Copenhaver Gulch
Berkley Gulch
Baker Gulch
Early Gulch
Chris
Schoolmarm Mtn
SUGARLOAF MTS
Richaborger Mtn
Sulphur Mtn
Glentivar
SPINNEY MTN
Chase
Colorado Ranch
Buckley Ranch
Balfour
South Dome
Buffalo Peak
ANTERO RESERVOIR
East Hall Butte
West Hall Butte
Antero Jet
McQuaids Ranch
Mt. Hall
Bath
Trout Creek Pass
Newett
Trump
Parrot Ranch
Marshall Ranch
Dicks Peak
THIRTY-NINE MILE MTN
LITTLE BLACK MTN
Buffalo Spring Ranger Sta
MOSQUITO-WESTON FAULT
SOUTH PARK FAULT
ELKHORN THRUST
SOUTH PARK
MEXICAN RIDGE
COTTAMONT RIDGE
SOUTH PLATTE RIVER
Sheep Mtn
Lamb Mtn
Horseshoe
Sacramento
Little Sacremento Gulch
Pennsylvania Gulch
Mosquito Gulch
Dolly Varden Gulch
Sawmill Creek
Buckskin Creek
Copper Creek
Platte Gulch
Purgatory Gulch
Deadwood Gulch
Johnson Gulch
Black Canon
Long Gulch
Dunlap Gulch
Radcliff Gulch
Old Horse Gulch
Potato Gulch
Tumble Creek
Pole Gulch
Buffalo Creek
Spring Creek
Salt Creek
Fourmile Creek
Sheep Creek
High Creek
Tenmile Creek
Prudence Creek
Dakota of Gilead Creek
North Fork
Tungue
Wagon Gulch
South Park
T 8 S
T. 9 S.
T. 10 S.
T 11 S.
T. 12 S.
T 13 S.
T 14 S

UNITED WESTERN MINERALS COMPANY
136 W. Palace Avenue
Santa Fe, New Mexico

GEOLOGIC MAP AND SECTIONS OF SOUTH PARK, COLORADO

EXPLANATION

Sedimentary Rocks

Tertiary	Tt	Trump formation
	Tw	Wagontongue formation
	Ta	Antero formation (undifferentiated)
		Tal Limestone (Antero formation)
		Tac Conglomerate (facies-Oligocene)
	Tb	Balfour formation
	Td	Denver formation
Cretaceous	Kl	Laramie formation
	Kf	Fox Hills sandstone
	Kp	Pierre shale
	Kc	Colorado Group (Undifferentiated)
		Kn Niobrara formation -- Colorado Group
		Kd Dakota sandstone -- Colorado Group
Jurassic	Jm	Morrison formation
	Jg	Garo sandstone
Permian	Pm Ls	Maroon formation (Undifferentiated) (Ls, limestone bed)
		Pps Pony Springs member -- Maroon formation
		Pch Chubb member -- Maroon formation
	Pw	Weber (?) formation
Paleozoic	Pal	Early Paleozoic rocks (Undifferentiated)

Igneous and Metamorphic Rocks

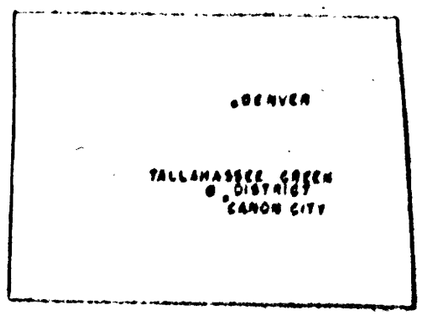
Tertiary	Ttr	Trachyte
	Tba	Buffalo Peak andesite
	Tta	Thirty-nine Mile andesite
	Tep	Eshe Porphyry
	Tgp	Baker Lake porphyry
	Tlbp	Little Black porphyry
	Tcg	Chalmers granite
	To	Oil Well dikes
	Tobr	Rhyolite
	Tdbw	Red and White breccia - Denver Basin Group
	bt-Tdbv	Variolite breccia (bt, breccia and tuff member)
Pre-Cambrian	sp	Silver Plume granite
	pp	Pikes Peak granite
	Is	Idaho Springs formation
	PCu	Pre-Cambrian rocks (Undifferentiated)

GEOLOGIC AGE		OUTCROP PATTERN & THICKNESS	LITHOGRAPHIC DESCRIPTION	URANIUM OCCURENCES
QUATERNARY	Recent?	Qal 0' - 100'	Silt, sand and gravel derived from Precambrian rocks and Tertiary Volcanics and sediments. Forms thin veneer on Valley walls, and reaches its greatest thickness along the main drainages.	
	Pleistocene	Qsld 0' - 50'?	Landslide debris, derived mostly from Upper Rhyolite.	
		Qg 0' - 10'	Gravel Patches, unconsolidated, mostly Volcanic rocks.	
TERTIARY	Miocene and Oligocene	Tru 30' - 235' (Upper part eroded)	Rhyolite. Generally forms flat-topped divides on higher ridges and the higher cliffs on canyon walls. Weathers reddish brown, pick on fresh surface. Contains many flow structures and inclusions of foreign materials.	
		Tt 0 - 60'	Tuff, thin to massive deposits. Well indurated. Sometimes forms vertical cliffs. Color varies from white to light gray speckled with black flakes of biotite. Visible feldspar.	
		Tab 200' 600'	Andesite flow breccia. Massive flows form prominent cliffs with many re-entrants. Weathered surfaces are dark brown. Fresh surfaces tend toward reddish-brown. Brecciated fragments range from less than one inch to several inches in diameter. Both matrix and Breccia are generally fine grained to aphanitic. Interbedded deposits of tuffaceous agglomerate. Composed of granular, yellowish-brown matrix and angular to rounded agglomerate consisting of vesicular basalt, andesite, volcanic glass and rhyolite. Tuff deposits occur locally in basal portion of this unit. They are light gray and contain a few dark pyroclastic constituents. At the contact with the overlying flows they have been opalized.	
		Tvc 0' - 130'	Volcanic conglomerate. Angular to well-rounded conglomerate in fine grained tuffaceous matrix. Derived chiefly from disintegration of rhyolitic rock resembling Lower Rhyolite Flows in this area. Minor constituents consist of other volcanic rocks, pillowlava (?), and Precambrian granite and Metamorphic rocks. Discontinuous lenses of sandstone and shale. Local concentrations of carbonized and silicified wood.	Contains deposits of Uranium Minerals.
	Eocene?	Ta 0' - 135'	Augite andesite. Dense Black, weathers rusty brown. Well developed jointing. Calcite veinlets along joint planes, on fresh surface is equiangular, medium grained, with visible and black ferro-magnesium minerals.	Single occurence of Autunite (?) in calcite vienlets along joint surface.
		Tsr 60' - 200'	Sanidine rhyolite. Cliff-former overlying arkose. Weathers pink to brown. Texture, aphanitic with phenocrysts of sanidine. Numerous flow vesicles. Feldspars partially altered to clay.	No known uranium minerals.
		Tac 0' - 165'	Arkose and shale. Arkose is fine to very coarse grained, locally conglomeratic. Lies unconformably on Precambrian complex in discontinuous lenses. Cross-bedding locally well developed. Some concentrations of carbonaceous material present. Mudstone is red and green and generally confined to upper part of section.	Contains both oxidized and unoxidized uranium mineral. Deposits generally lenticular in outline and roughly concordant with sedimentary structures.
	Precambrian	pre C	Granite, pegmatite, and matamorphic Rocks. Granite is pink to medium gray, course to medium grained; intrudes greenish gray micaceous shist. Shists highly concorted, exist only in small patches. Pegmatite intrudes shist and probably the granite.	Radioactive locally along fault and shear zones, ranges in intensity from 10 to 100 times background.

GEOLOGIC COLUMN - TALLAHASSEE CREEK DISTRICT
FREMONT COUNTY, COLORADO

LEGEND

- U/D Fault - Dashed where inferred
- Formational contact
- Buildings
- Strike & dip of beds
- Mine
- Forest Service Triangulation Point

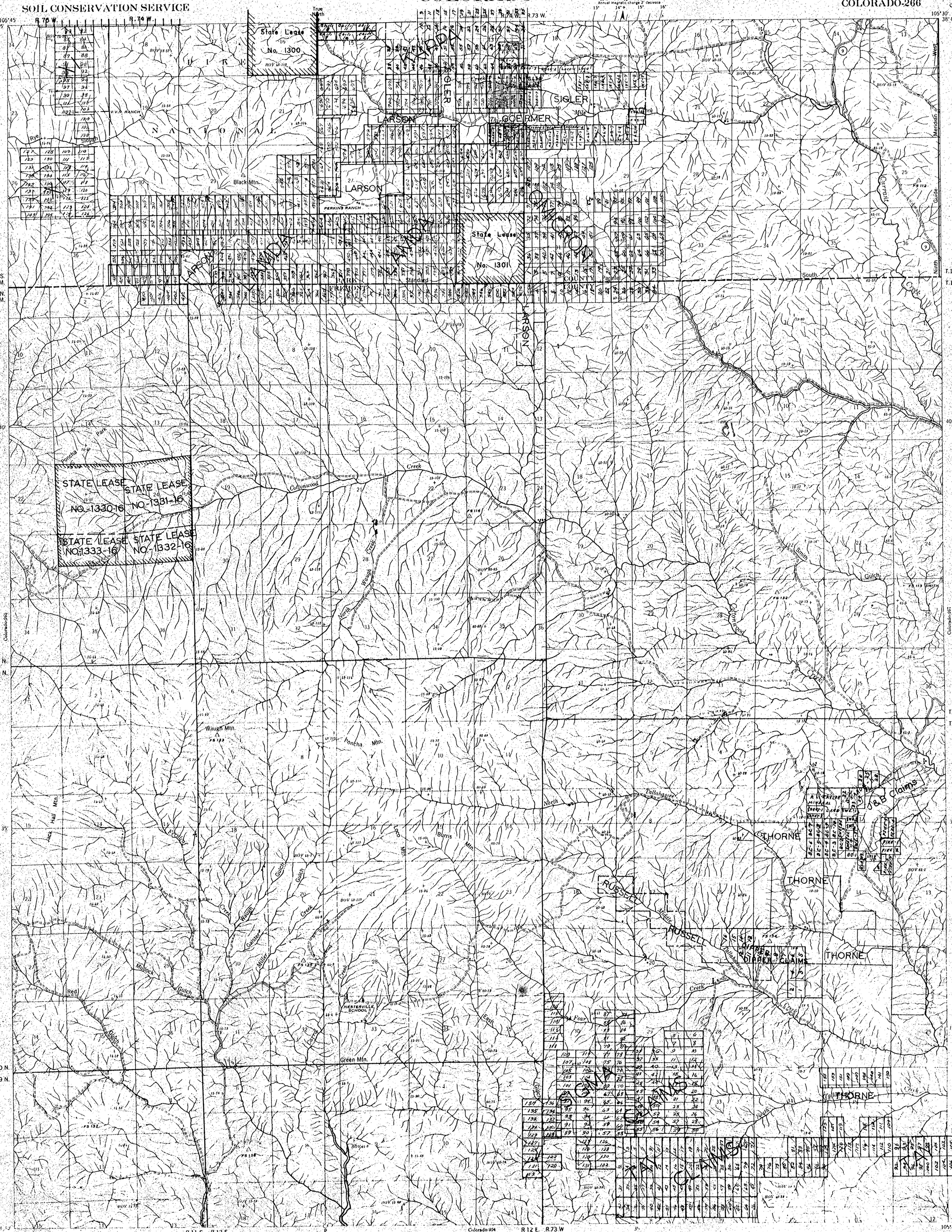


INDEX MAP FOR TALLAHASSEE CREEK DISTRICT

U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

COLORADO

SOUTHWEST REGION
COLORADO-266



Constructed by U.S. Forest Service, Denver, Colorado from aerial survey flown by U.S.F.S. in 1938 39 41 Symbol: BOV.
Drafting by Regional Cartographic Division, U.S. Soil Conservation Service, Albuquerque, New Mexico 1948.
Horizontal control by U.S.C.&G.S. and U.S.F.S.
Modified polyconic projection, North American datum 1927.
This map has not been checked in the field and is subject to correction.

To determine magnetic north line, connect the declination point "P" at the south edge of the map with the arrow as shown on the degree scale at the north edge of the map.

Scale 1:31,680 or 2" = 1 Mile

5000 0 5000 10000 15000 20000 Feet

0 1 2 3 4 Miles

Center and number of aerial photograph

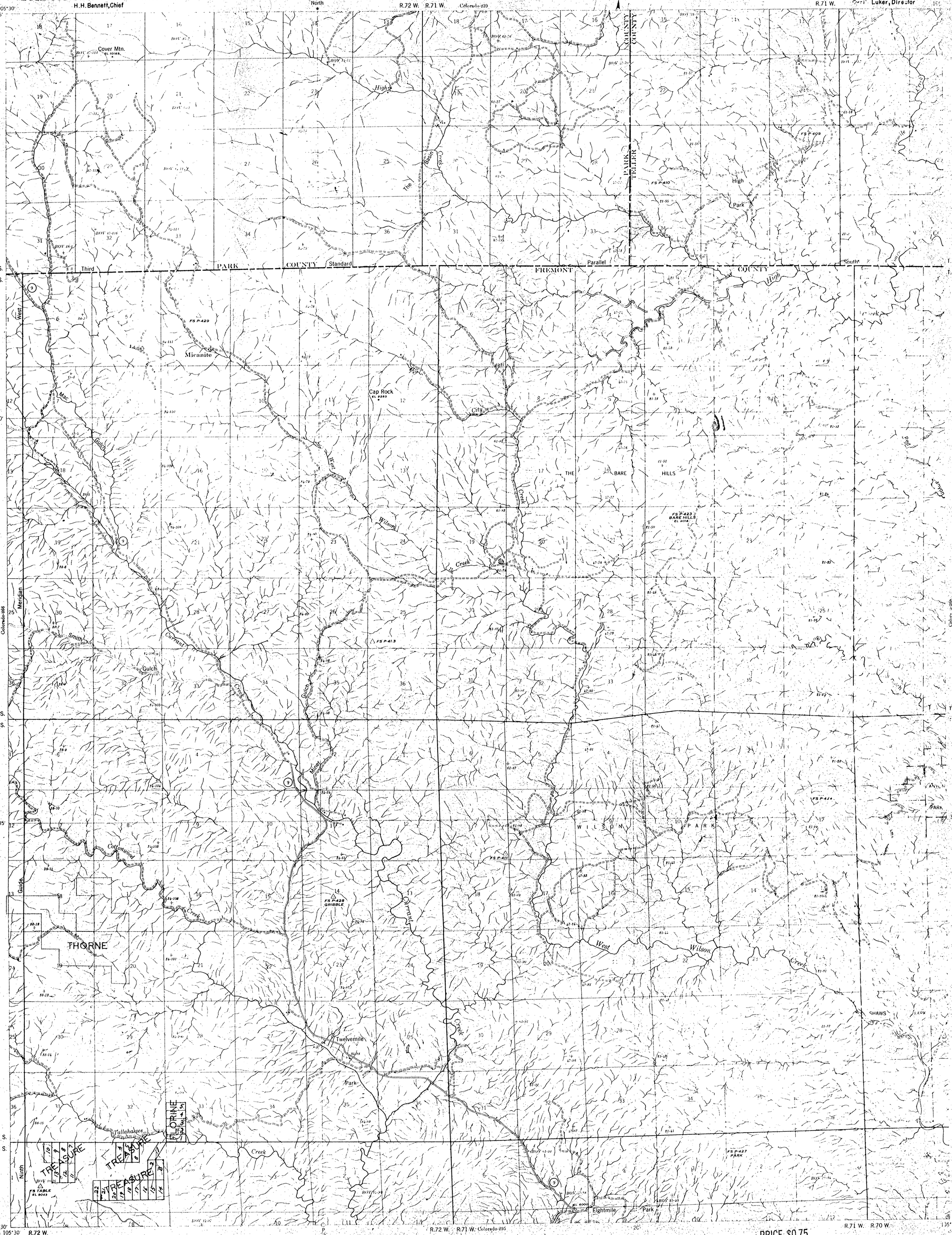
PRICE $0.75

COLORADO-266
Revised February, 1950

U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H.H. Bennett, Chief

COLORADO

SOUTHWEST REGION
COLORADO-267
Cyril Luker, Director



PRICE $0.75

Constructed by the Regional Cartographic Division, U.S. Soil Conservation Service, Albuquerque, N.M. 1947 from aerial survey flown by U.S.F.S. in 1938-40. Symbol: BOV
Horizontal control by U.S.C.&G.S. and U.S.F.S.
Land lines from G.L.O. surveys
Modified polyconic projection, North American datum 1927.
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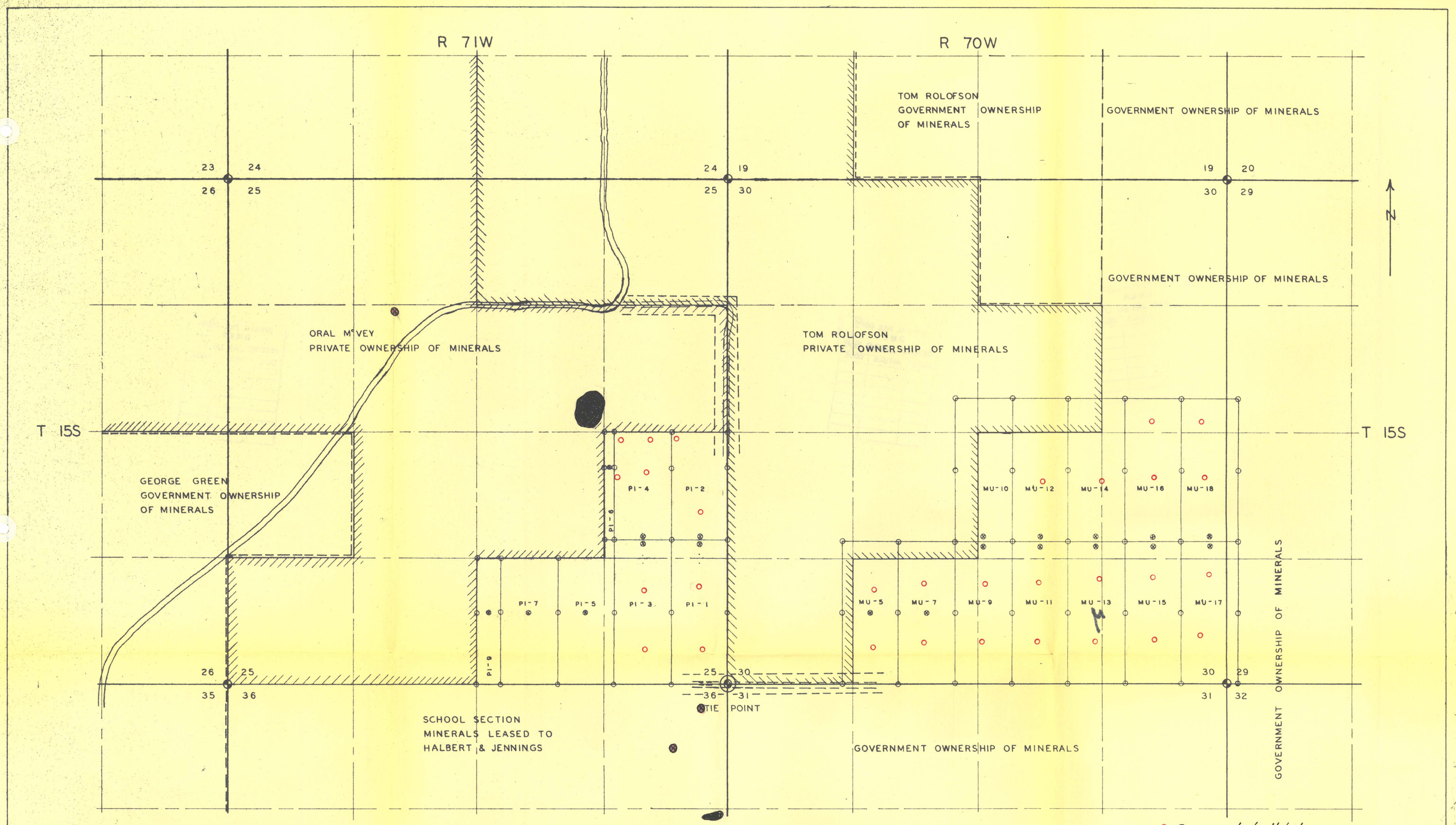
Scale 1:31,680 or 2" = 1 Mile

1 0 1 2 3 4 Miles
5000 0 5000 10000 15000 20000 Feet

31-98 Center and number of aerial photograph

COLORADO-267
Reprinted, February, 1950



○ *Proposed drill holes*

⊗ *Anomolies*

Present Ore bodies

UNITED WESTERN MINERALS CO.

PROPERTY MAP TELLER COUNTY, COLO.

PI CLAIMS NO. 1,2,3,4,5,6,7,9

MU CLAIMS NO. 5,7,9,10,11,12,13,14,15,16,17,18

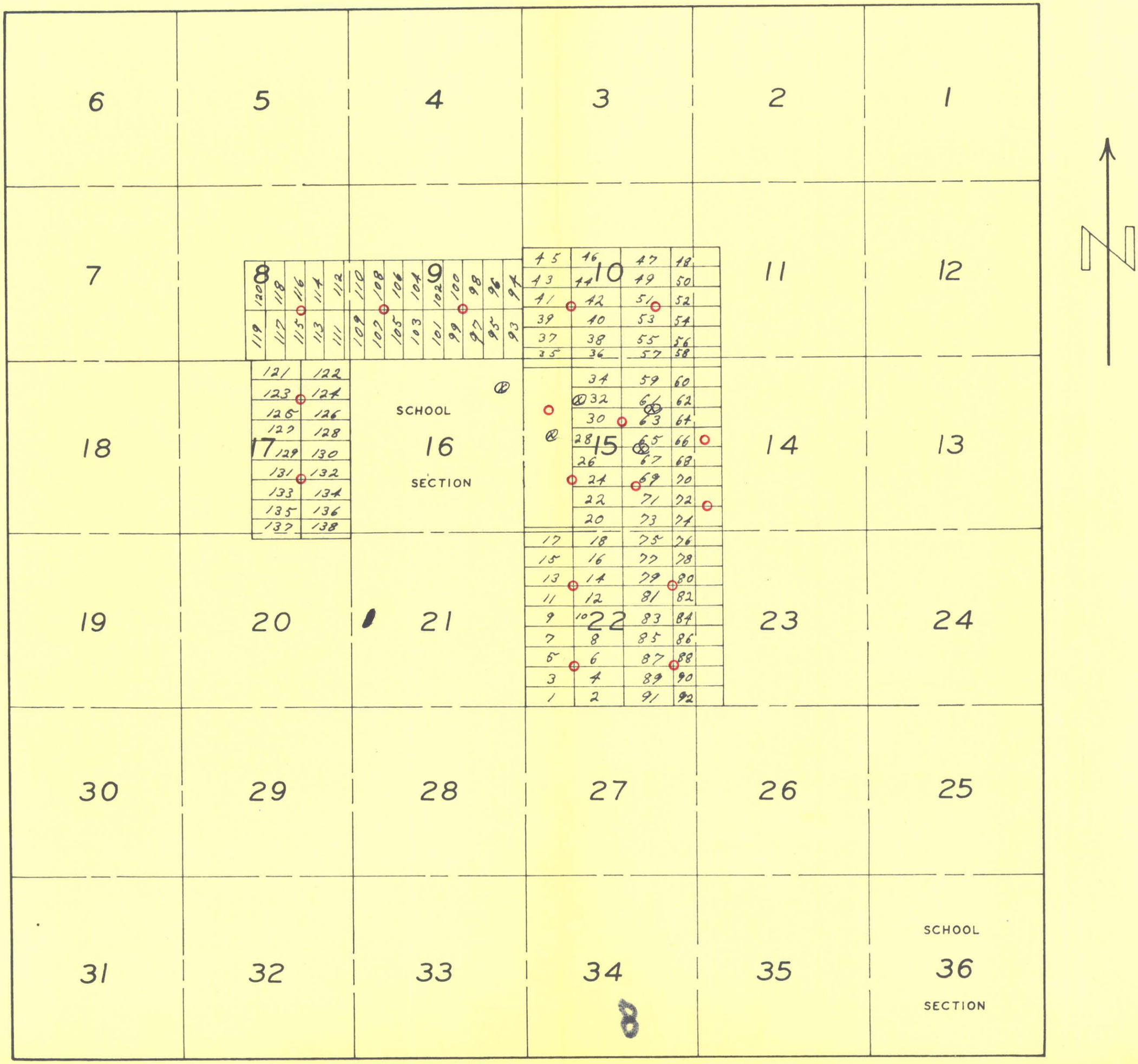
SCALE: 1" = 500' SEPT. 13, 1957

PROPOSED ROAD RIGHT OF WAY = = = = =

DISCOVERY MONUMENT ⊗

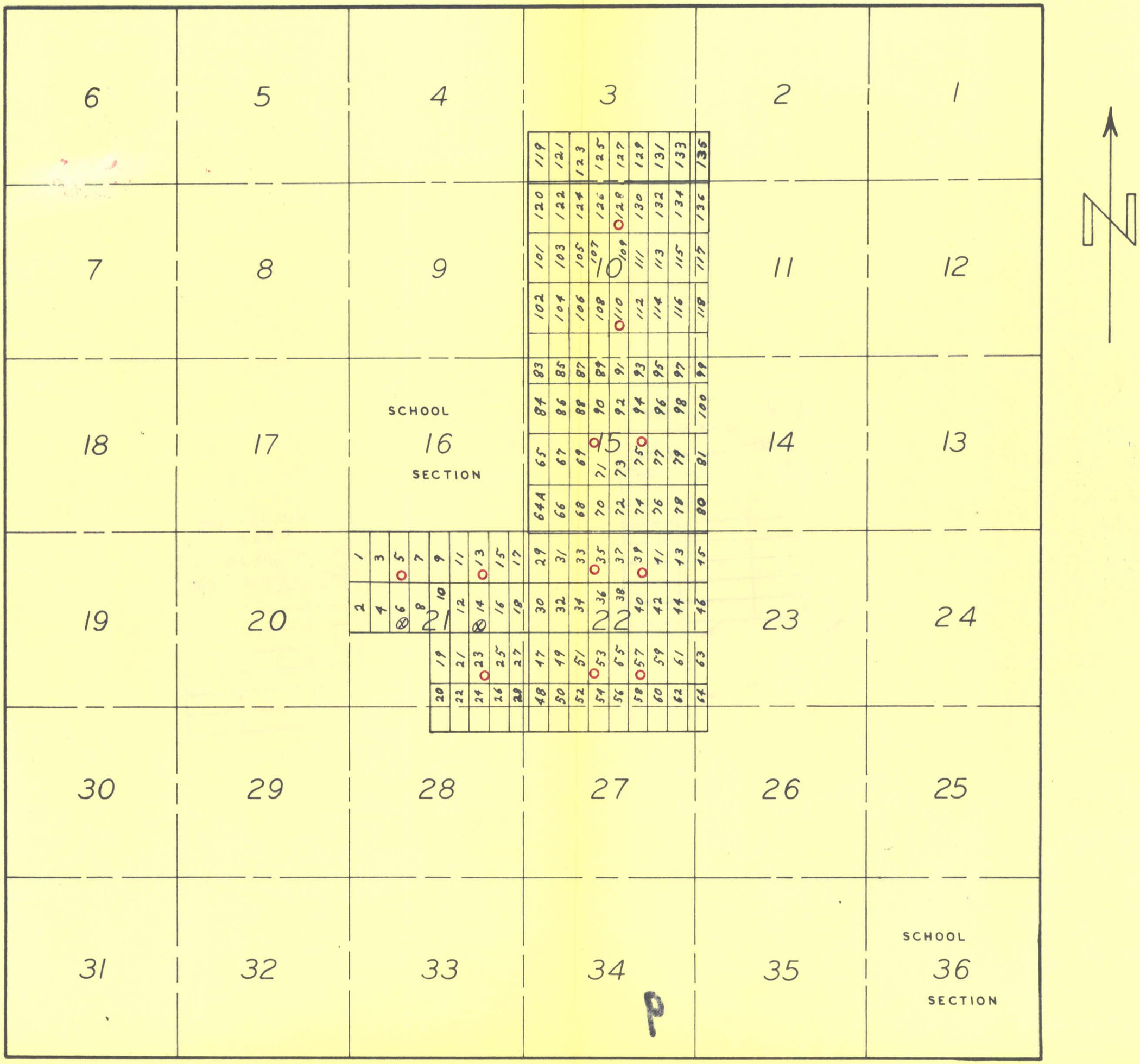
MONUMENT ○

DRAWN BY B.F.



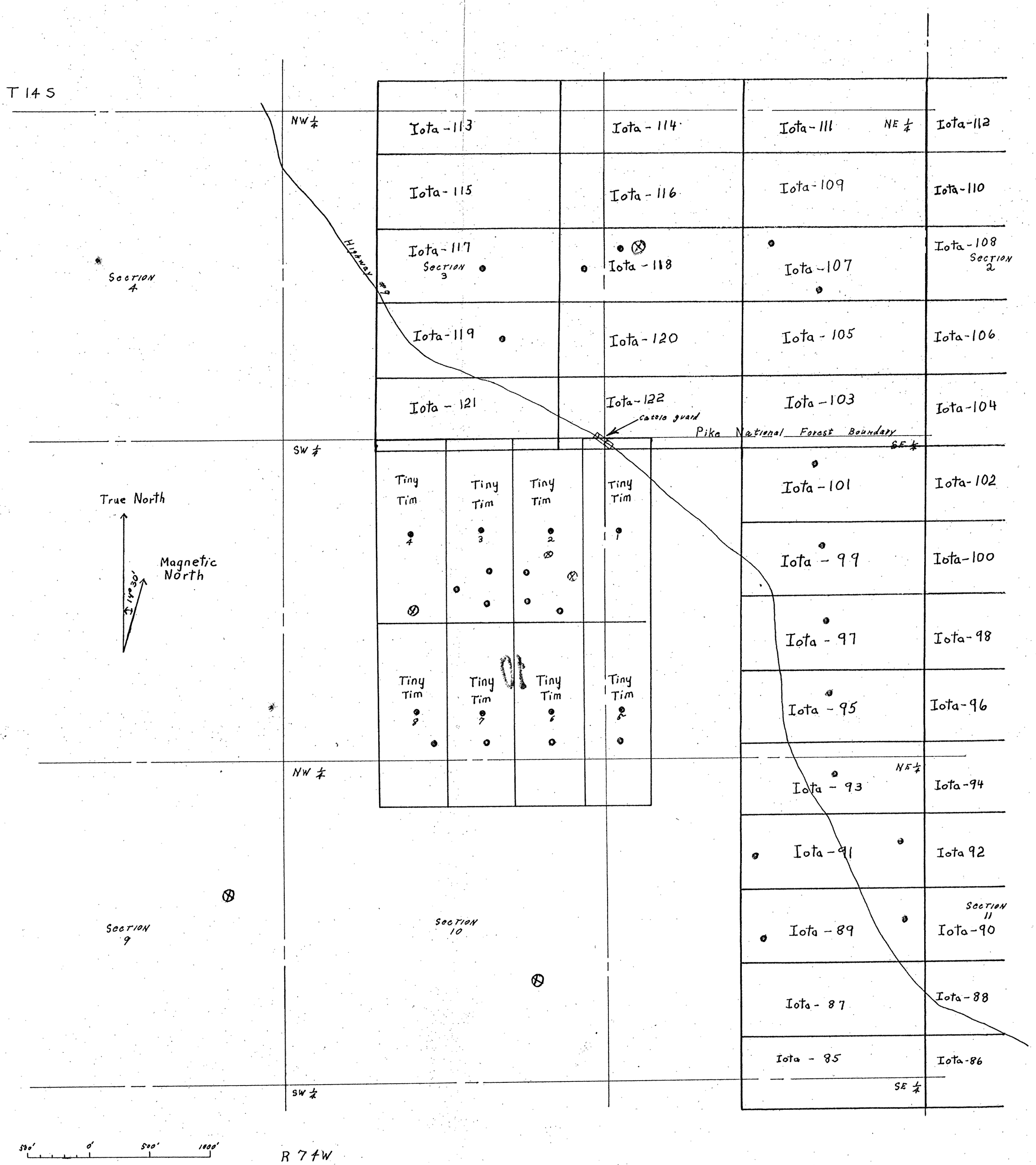
RHO CLAIMS
T 13S, R 76W, 6TH P.M.
PARK COUNTY, COLORADO
DRAWN BY: DATE: 9-21-57
SCALE: 2" = 1 MILE

orebody
anomaly
proposed drill holes



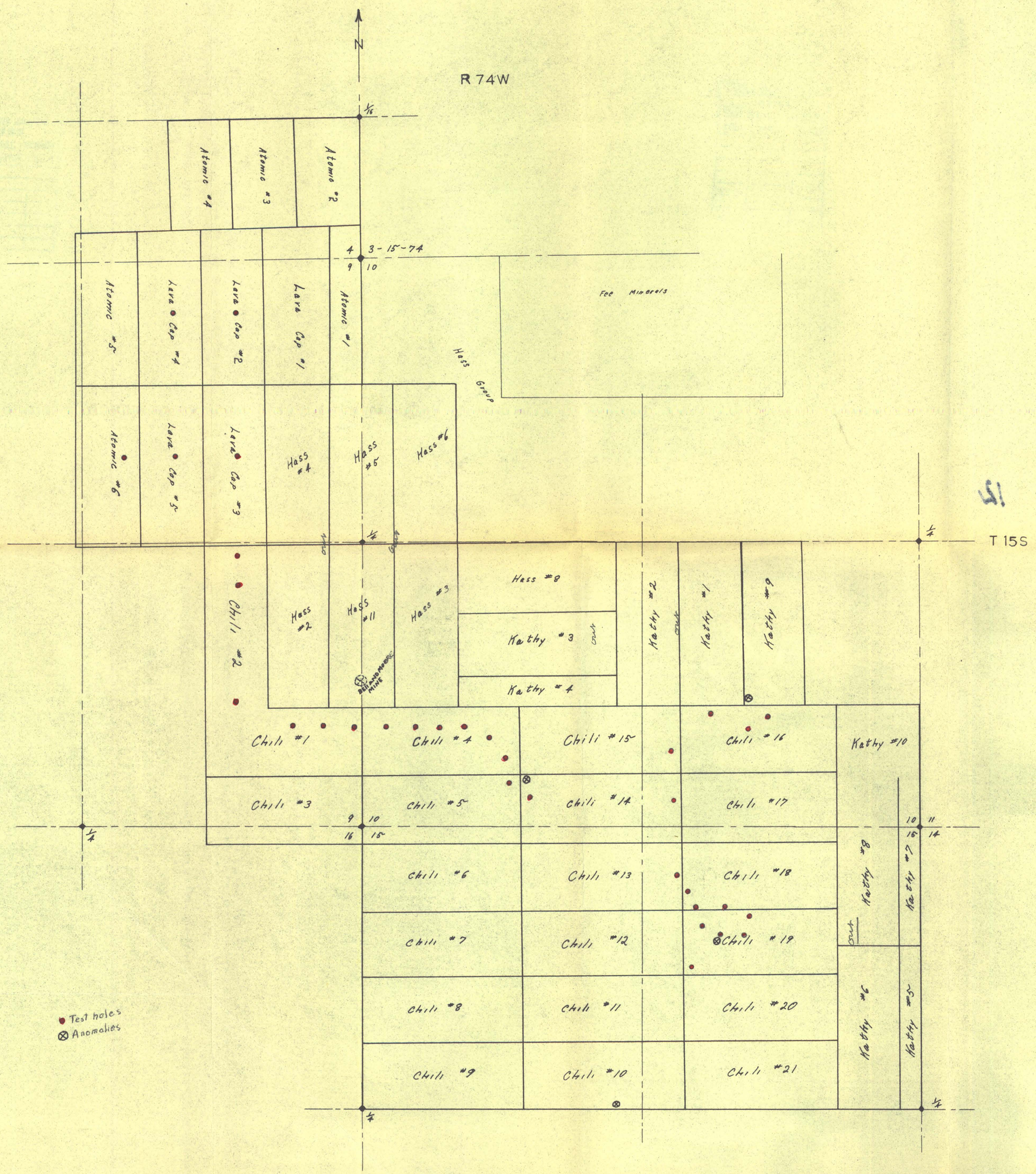
PHI CLAIMS
T 13S, R 75W, 6TH P.M.
PARK COUNTY, COLORADO
DRAWN BY: B.F. DATE:
SCALE: 2" = 1 MILE

⊗ Anomalies
o Drill holes (proposed)



TINY TIM CLAIMS
Leased By Arthur West
To United Western Minerals Company

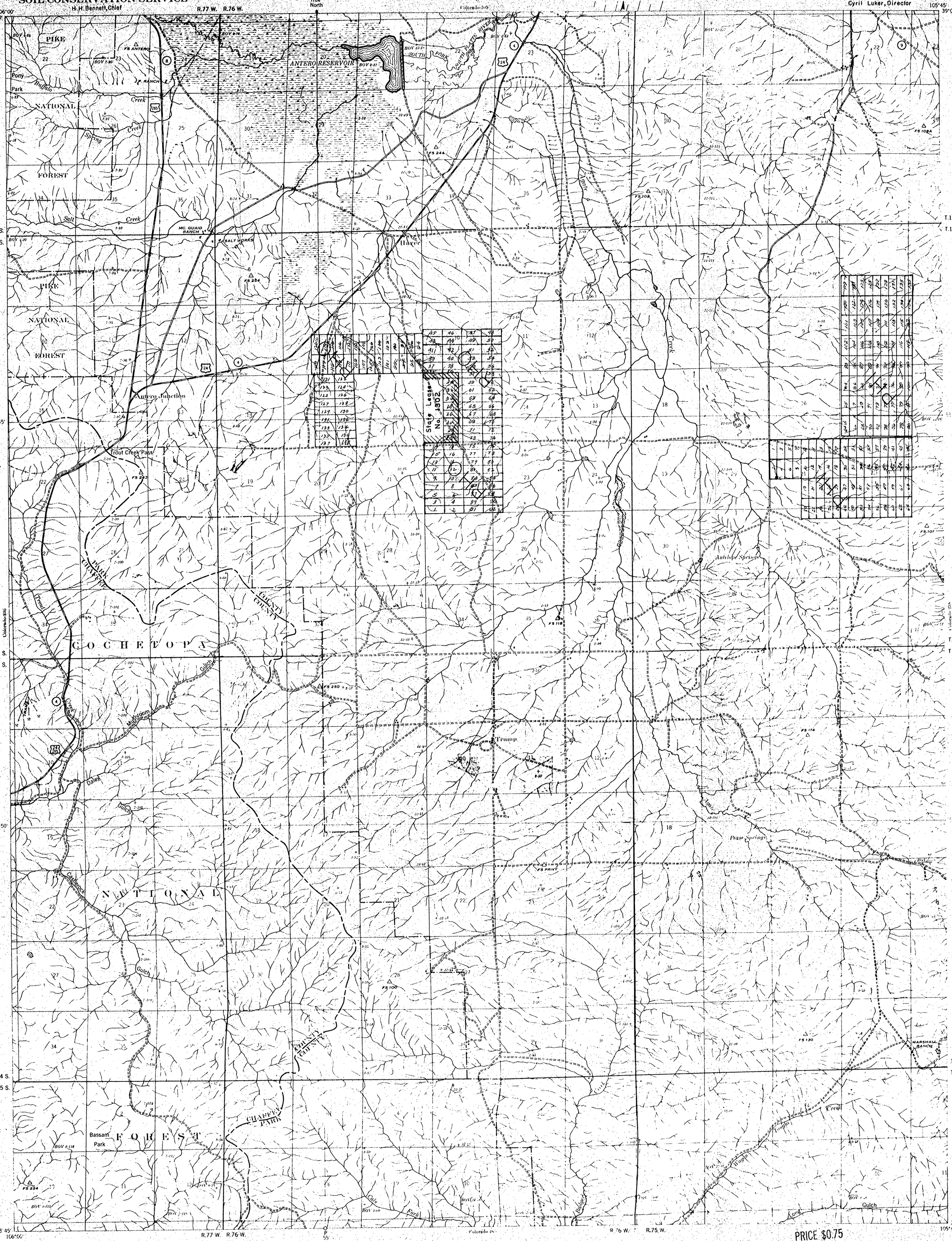
● Location notices
⊗ Anomalies
● Proposed drill sites 25 holes 200' each


N
R 74W
T 15S
3-15-74
Atomic #1
Atomic #2
Atomic #3
Atomic #4
Atomic #5
Atomic #6
Lava Cap #1
Lava Cap #2
Lava Cap #3
Lava Cap #4
Lava Cap #5
Hass #1
Hass #2
Hass #3
Hass #4
Hass #5
Hass #6
Hass #8
Hass #11
Hass Group
Fee Minerals
Chili #1
Chili #2
Chili #3
Chili #4
Chili #5
Chili #6
Chili #7
Chili #8
Chili #9
Chili #10
Chili #11
Chili #12
Chili #13
Chili #14
Chili #15
Chili #16
Chili #17
Chili #18
Chili #19
Chili #20
Chili #21
Kathy #1
Kathy #2
Kathy #3
Kathy #4
Kathy #5
Kathy #6
Kathy #7
Kathy #8
Kathy #9
Kathy #10
Test holes
Anomalies

U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. Bennett, Chief

COLORADO

SOUTHWEST REGION
COLORADO-237
Cyril Luker, Director



PRICE $0.75

Constructed by U.S. Forest Service, Denver, Colorado
from aerial survey flown by U.S.F.S. in 1938. Symbol: BOV
Drafting by Regional Cartographic Division,
Soil Conservation Service, Albuquerque, New Mexico 1947.
Horizontal control by U.S.C.&G.S. and U.S.F.S.
Land lines from G.L.O. surveys and field identification on aerial photographs.
Modified polyconic projection, North American datum 1927.
This map has not been checked in the field and is subject to correction.

To determine magnetic north line, connect the declination point "P" at the south edge of the map with the arrow as shown on the degree scale at the northedge of the map.

Scale 1:31,680 or 2 — 1 Mile

4 Miles
5000 0 5000 10000 15000 20000 Feet

Center and number of aerial photograph

COLORADO-237
Reprinted February, 1950

34NE

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SOIL CONSERVATION SERVICE
H. H. Bennett, Chief

COLORADO

SOUTHWEST REGION
COLORADO-238
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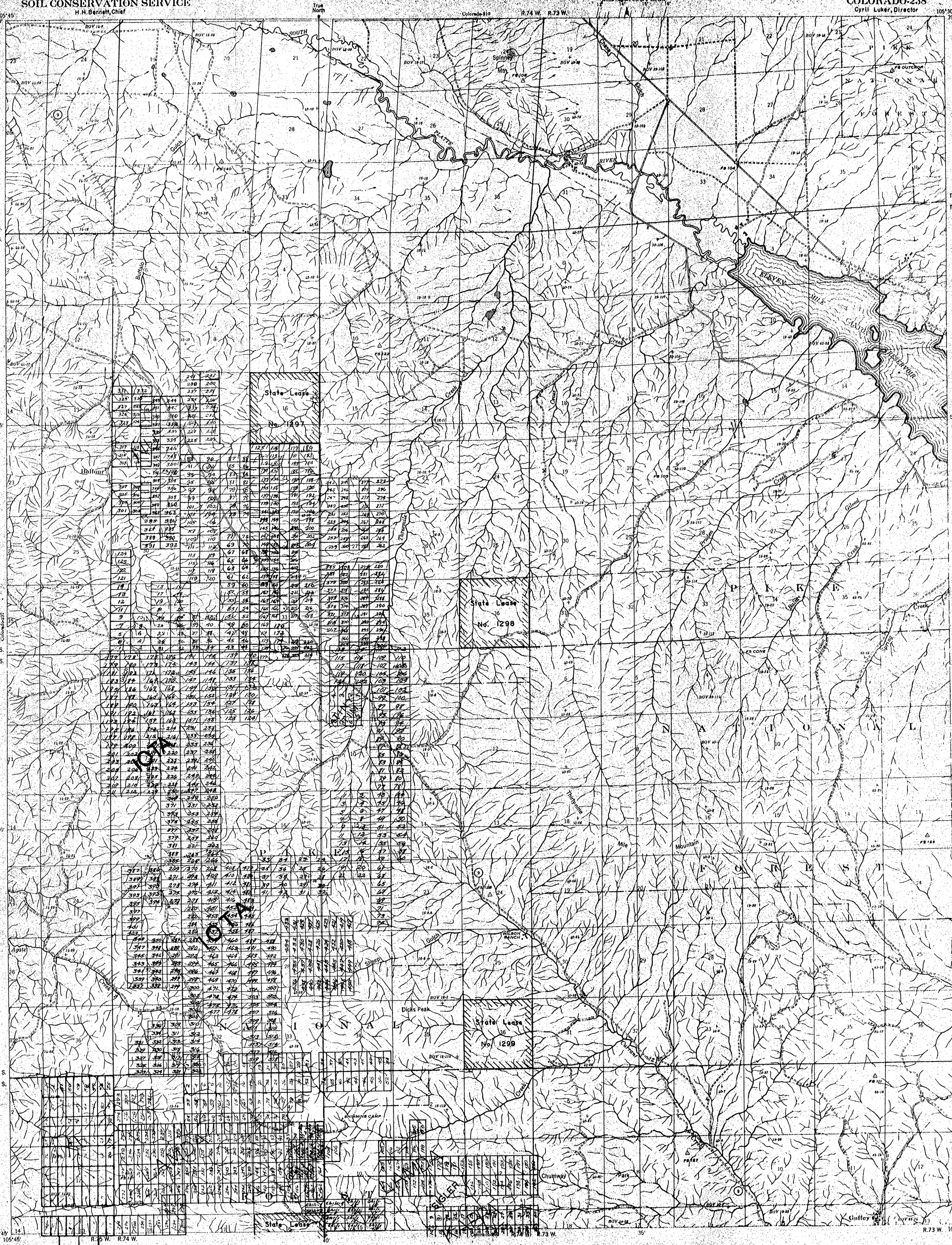

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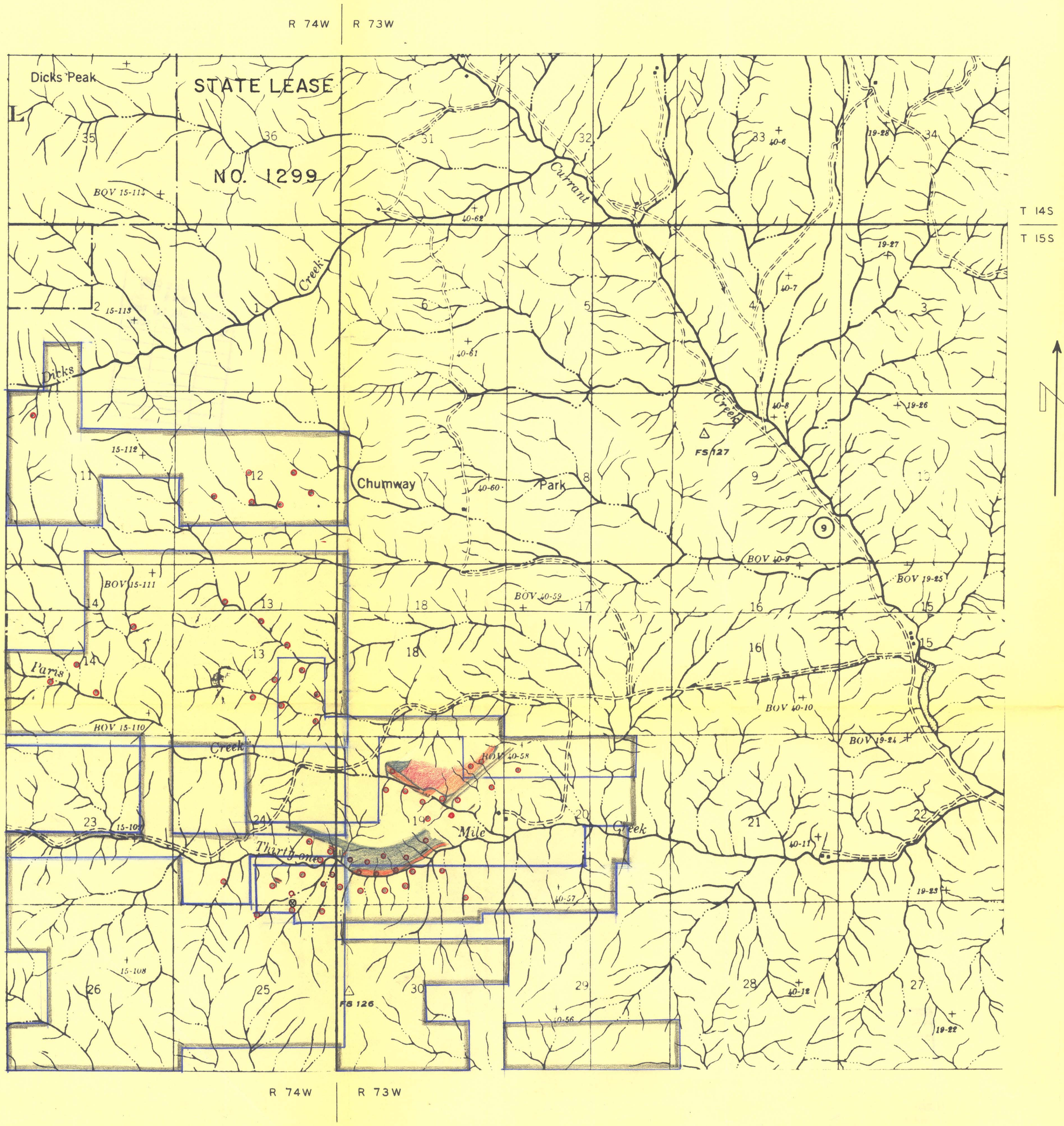
Scale 1:31,680 or 2" = 1 Mile

1 0 1 2 3 4 Miles
5000 0 5000 10000 15000 20000 Feet

Center and number of aerial photograph

COLORADO-238
Reprinted February, 1950

34NE



UNITED WESTERN MINERALS CO.

— Felsite Porph
— Arkose
— Granite
— Basic Dike
⊗ Anomolies
○ Test Holes
— Boundary line of United's property

Colorado Planimetric Map Blow-up Series
Reference Maps: S.C.S., Colo. Nos. 238 & 266
Drawn By: B.F.
Scale: 3" = 1 Mile

Map No. B.U. - 1

Date: Nov. 30, 1957

15 - 20000 ft.
2000 on State Leases off map in Cottonwood Area
60 Holes
Av. depth 250'