



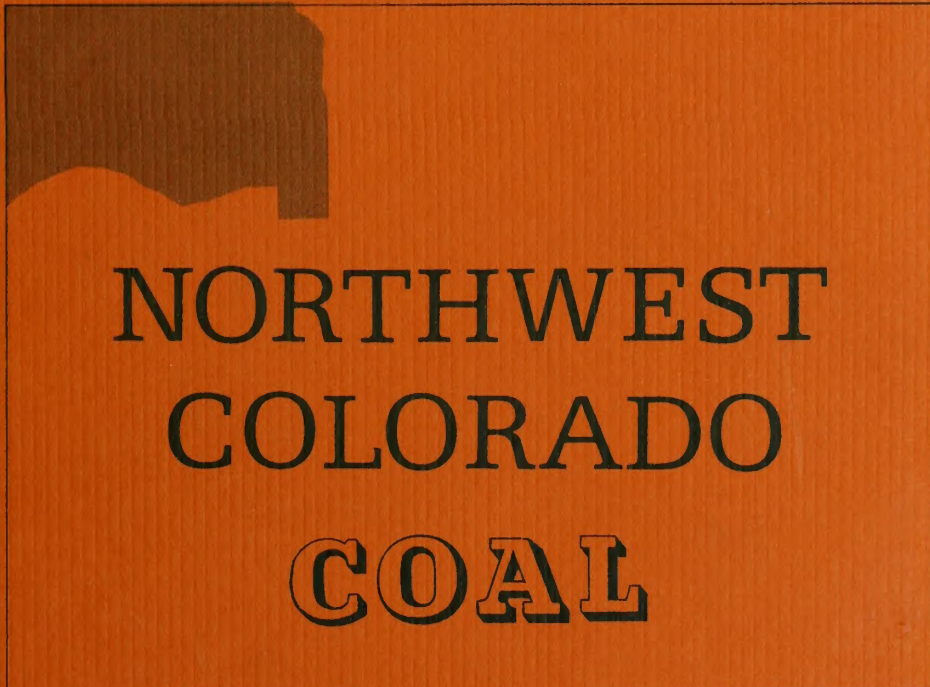
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APPENDIX A

- MAPS -

FINAL

ENVIRONMENTAL IMPACT STATEMENT



NORTHWEST
COLORADO
COAL



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Denver Service Center

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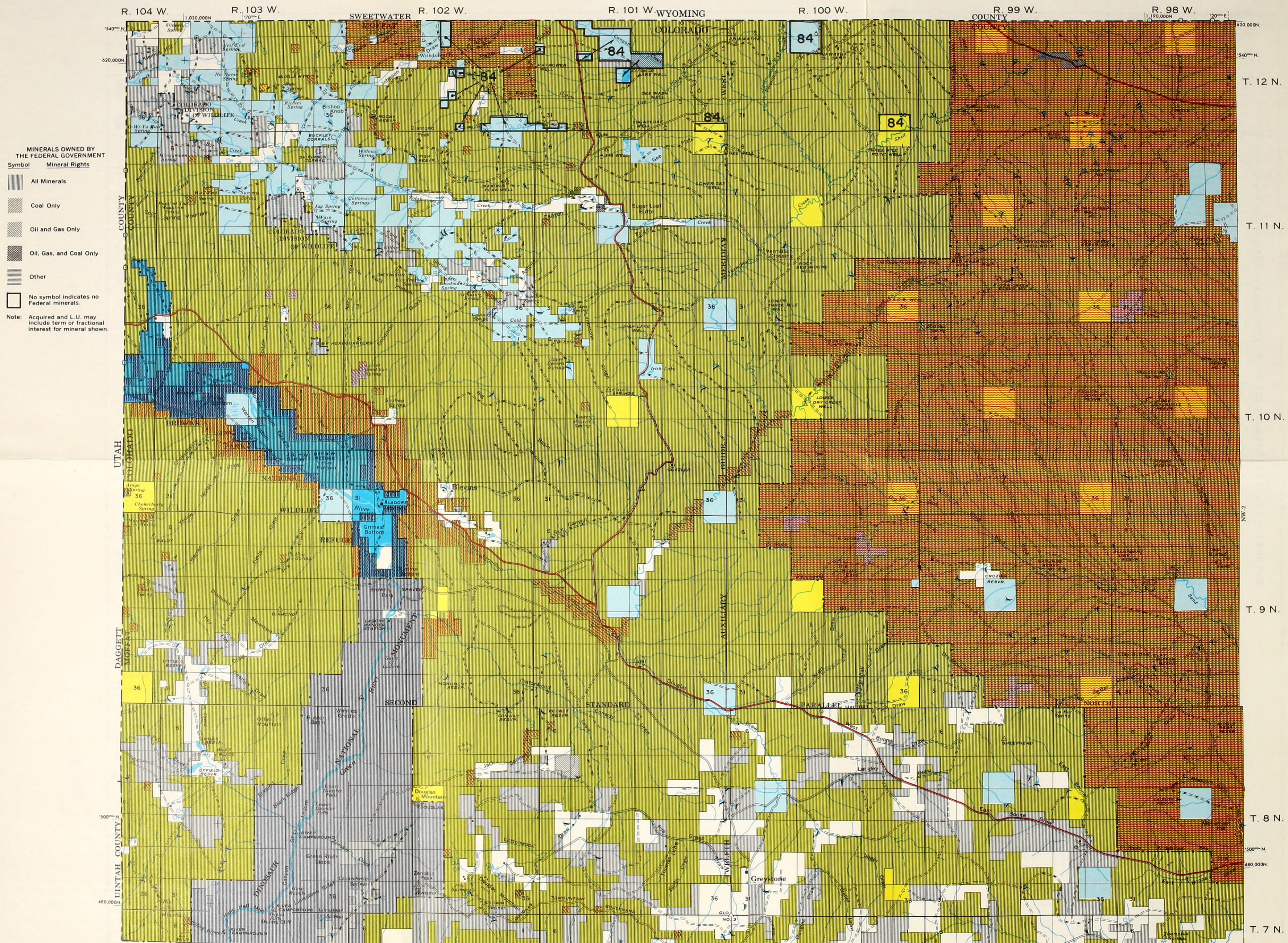
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3.	Mineral Management and Coal Lease Maps NW-10, NW-13, and NW-14
4.	Land Use Maps—Rio Blanco County Sheets 1 and 2.
5.	Land Use Maps—Rio Blanco County Sheet 3 and Routt County Sheet 1.
6.	Land Use Maps—Routt County Sheets 2 and 3.
7.	Land Use Maps—Moffat County Sheets 1 and 2.
8.	Land Use Maps—Moffat County Sheets 3 and 4.
9.	Study Region Map Showing Concentrated Areas of Coal Activity.
10.	Geologic Map of Northwest Colorado.

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MINERALS OWNED BY THE FEDERAL GOVERNMENT

Symbol	Mineral Rights
[Diagonal lines /]	All Minerals
[Diagonal lines \]	Coal Only
[Cross-hatch]	Oil and Gas Only
[Dotted pattern]	Oil, Gas, and Coal Only
[Horizontal lines]	Other
[Empty box]	No symbol indicates no Federal minerals.

Note: Acquired and L.U. may include term or fractional interest for mineral shown.

SCALE 1:126,720
1/2 INCH = 1 MILE SERIES

JAN 1975
COAL LEASE OVERPRINT SEPT 1975

NW-1

COLOR QUAD LEGEND

N.W. COLORADO COAL E.I.S. COAL LEASES

Leases and Lease Applications

BLM proposed coal leasing areas

Code numbers with a "C" prefix are competitive lease applications.
 Code numbers with a "P" prefix are preferred right lease applications.
 Lease numbers with a "C" or "D" prefix are federal leases.
 Lease numbers with two part numbers (000/00) are state leases.

Code #	Firm (Lease Holder)	Lease #			
1	Empire Energy Corp.	C-14737	60	Driftwood Oil Corp.; Peabody Coal (408/13)	384/13
2	Empire Energy Corp.	D-056298	61	Crassy Creek Coal Co.	323/13
3	Empire Energy Corp.	C-21981	62	Consolidated Coal Co.	C-245
4	Empire Energy Corp.	C-0127865	63	George Brennan, Jr.	324/13
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6	Empire Energy Corp.	366/13	65	George Brennan, Jr.	325/13
7	Empire Energy Corp.	345/13	66	George Brennan, Jr.	397/13
8	Ark Land Co.	365/13	67	Energy Fuels Corp. (Morgan)	333/13
9	K. Parry; Ass'd. Paul S. Coupey (430/13)	370/13	68	Pittsburgh & Midway Coal Mining Co.	C-9368
10	Kemmerer Coal Co.	285/13	69	Peabody Coal Co.	306/13
11	John Wanner	307/13	70	Peabody Coal Co.	371/13
12	Peabody Coal Co.	402/13	71	Mapco, Inc.	393/13
13	Charles C. Hughes	299/13	72	Page T. Jenkins; Ass'd. J. McDonough (379/13)	364/13
14	Arnold Gilbert	C-3440	73	K. Parry; Ass'd. Paul S. Coupey (429/13)	235/13
15	James C. Goodwin	C-0127926	74	Morgan Coal Co.	305/13
16	James C. Goodwin	C-0127927	75	Peabody Coal	C-22836
17	James C. Goodwin	C-0127891	76	W.R. Grace	394/13
18	Thomas C. Woodward	383/13	77	Sunflower Corp.	C-3606
19	Arnold Gilbert	286/13	78	Kemmerer Coal Co.	C-3605
20	W.R. Grace	D-034365	79	Kerr-McCee Corp.	395/13
21	Gulf Oil (Pittsburgh & Midway Coal Mining Co.)	D-033327	80	Victor P. Stabio	424/13
22	Gulf Oil Corp.	D-041478	81	Robert H. Gleason & L.C. Craig	409/13
23	Gulf Oil Corp.	C-021501	82	Robert H. Gleason & L.C. Craig	410/13
24	Gulf Oil Corp.	D-053710	83	Eron E. Nowell	432/13
25	Joe Petranovich	D-052546	84	George Brennan, Jr.	332/13
26	Routt Mining Corp.	C-0127592	85	Superior Oil Corp.	331/13
27	Routt Mining Corp.	D-046544	86	Consolidation Coal Co.	C-1545
28	Maneot's Sheep Co.	D-051376	87	Consolidation Coal Co.	C-1546
29	Ruby Construction Co.	D-051698	88	Consolidation Coal Co.	C-093713
30	Morgan Coal Co.	D-052547	89	Consolidation Coal Co.	C-093714
31	Franklin Real Estate (Amer. Elec. Power)	C-012894	90	Consolidation Coal Co.	C-093715
32	Morgan Coal Co.	C-081330	91	Consolidation Coal Co.	C-093716
33	Morgan Coal Co.	C-0128433	92	Commonwealth Coal Co.	D-044240
34	Energy Fuels Corp.	C-20900	93	American Fuels Corp.	C-076713
35	Morgan Coal Co.	C-16284	94	W.R. Grace	C-22837
36	Peabody Coal (Seneca I)	C-088199	95	W.R. Grace	C-22838
37	Peabody Coal (Seneca II)	C-086654	96	W.R. Grace	C-22839
38	Peabody Coal (Seneca III)	C-0114093	97	Phillip A. Jensen & K.W. Miller	C-4275
39	Material Service Corp. (Seneca I)	C-081251	98	Ember Mining Co.	C-0126997
40	Material Service Corp. (Seneca II) 279/13	C-081258	99	Ember Mining Co.	C-0126998
41	United Electric Coal Co.	279/13	100	Ember Mining Co.	C-0126999
42	Mapco Inc.	392/13	101	Paul E. Riebold	D-047201
43	Utah International, Inc.	C-079641	102	Reliable Coal Mining Co.	C-0125366
44	Utah International, Inc.	C-07519	103	L.C. Craig	C-8424
45	Utah International, Inc.	C-07518	104	Moon Lake Electric	C-8425
46	Utah International, Inc.	C-3506	105	Moon Lake Electric	C-0126669
47	Utah International, Inc.	C-0126480	106	Gordon Staley Coal	C-023703
48	Utah International, Inc.	C-813	107	Moon Lake Electric	C-15846
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53	Pittsburgh & Midway Coal Mining Co.	266/13	112	Halandras Brothers	C-22628
54	Peabody Coal Co.	C-0125957	113	Energy Fuels	C-22677
55	Empire Energy	C-13134	114	Energy Fuels	C-22676
56	Cossard, Inc.	C-16618	115	Empire Energy Corp.	C-14739
57	Utah International, Inc.	C-0123475	116	Peabody Coal Co.	C-22786
58	Utah International, Inc.	C-0123476	117		
59	Peabody Coal Co.	C-19885			

QUAD INDEX MAP COLORADO

NW-1	NW-2	NW-3	NW-4	NW-5	NW-6	NE-1	NE-2	NE-3	NE-4	NE-5
NW-7	NW-8	NW-9	NW-10	NW-11	NW-12	NE-6	NE-7	NE-8	NE-9	NE-10
NW-13	NW-14	NW-15	NW-16	NW-17	NW-18	NE-11	NE-12	NE-13	NE-14	NE-15
NW-19	NW-20	NW-21	NW-22	NW-23	NW-24	NE-16	NE-17	NE-18	NE-19	NE-20
NW-25	NW-26	NW-27	NW-28	NW-29	NW-30	NE-21	NE-22	NE-23	NE-24	NE-25
SW-1	SW-2	SW-3	SW-4	SW-5	SW-6	SE-1	SE-2	SE-3	SE-4	SE-5
SW-7	SW-8	SW-9	SW-10	SW-11	SW-12	SE-6	SE-7	SE-8	SE-9	SE-10
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SW-19	SW-20	SW-21	SW-22	SW-23	SW-24	SE-16	SE-17	SE-18	SE-19	SE-20
SW-25	SW-26	SW-27	SW-28	SW-29	SW-30	SE-21	SE-22	SE-23	SE-24	SE-25

MAP SYMBOLS

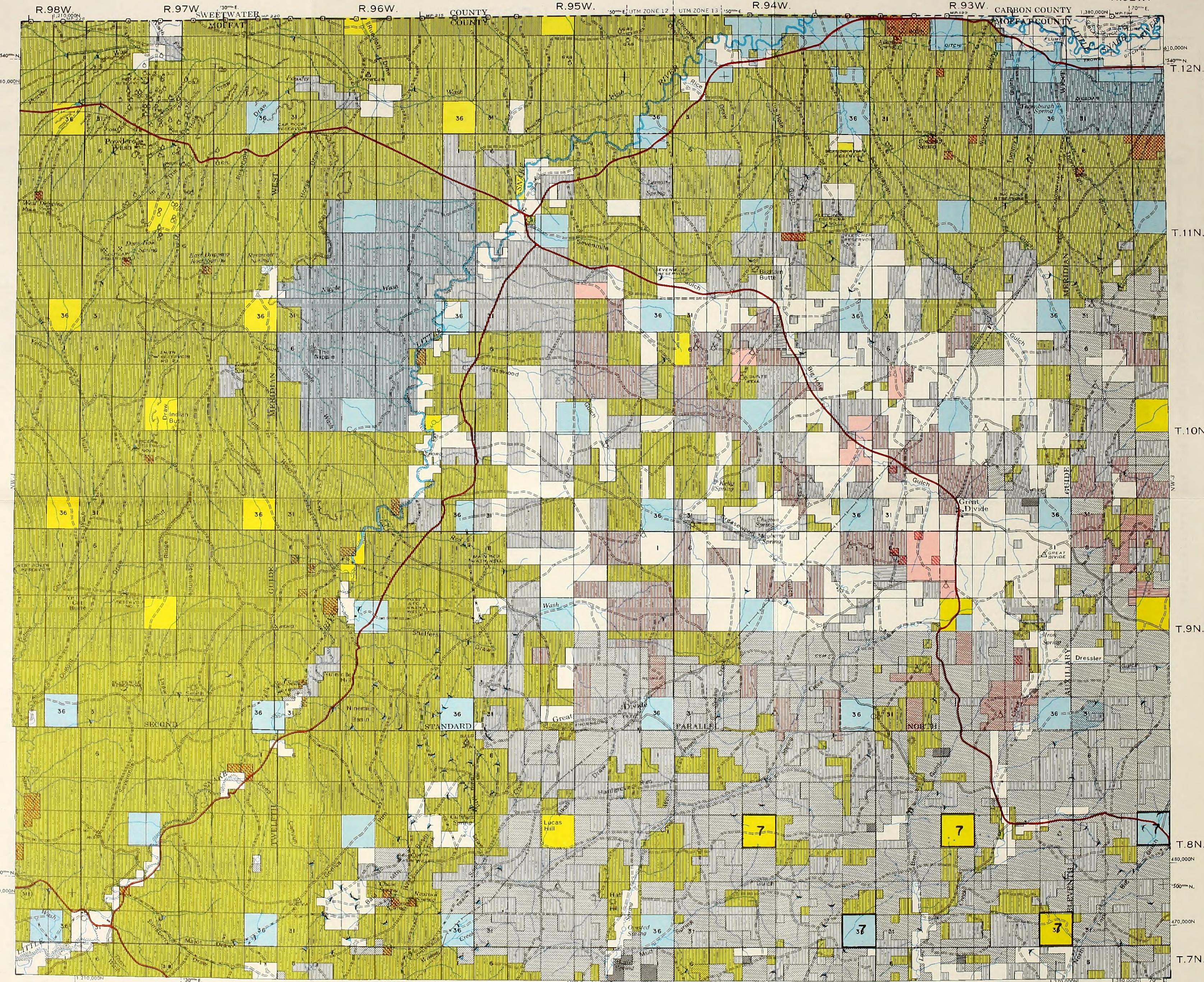
Feature	Symbol	Feature	Symbol	Feature	Symbol	Feature	Symbol	Feature	Symbol
District Bdy	—	Road All Weather	<u>Divided</u>	Principal Access	<u>Divided</u>	Buildings	■	Towns and Cities	■
Nat'l or State	—	Road Seasonal Use	-----	Buildings (Abandoned)	□	River or Large Stream	—	Stream	—
Continental Divide	—	Road "Jeep" Type "Primitive"	-----	Road Interchange	⊖	BLM Office	■	Large Dam	—
County	—	Trail	-----	Rest Area	⊖	School	■	Reservoir or Retention Dam	—
Land Grant	—	Railroad Double Track	—	Church	■	Radio Installation	■	Lake or Pond	—
Miscellaneous (Res., etc.)	—	Railroad Single Track	—	Levee or Dike	—	Fire Lookout (Primary)	⊖	Intermittent Lake or Pond	—
Park (State, County or Local)	—	Glacier	—	Road Bridge	—	Fire Lookout (Secondary)	⊖	Dry Lake or Pond	—
Township and Range	Surveyed Protracted	Road Bridge	—	Recreation Site	⊖	Fire Tool Cache	■	Marsh	—
Section	Surveyed Protracted	Foot Bridge	—	Tanks (label as to type)	⊖	Shelter	■	Spring	⊖
Sec., Status Subdivision	—	Ferry	—	Oil or Gas Wells	⊖	Cliff Dwelling	■	Improved Spring	⊖
Section Identification	6	Road Ford	—	Mine or Quarry	⊖	Small Ruins	□	Well	⊖
State Plane Coordinates And Zone	1,500,000E	Trail Ford	—	US Mineral or Location Monument	⊖	Large Ruins	□	Artesian Well	⊖
Boundary Monument	—	Road Tunnel	—	Located Object (Labeled)	⊖	Sawmill	■	Windmill	⊖
Route Marker Interstate	—	Railroad Tunnel	—	Triangulation Station	⊖	Airfield	—	Aqueduct Tunnel	—
Route Marker U.S.	—	Prominent Peak	—	Bluffs or Cliffs	—	Gaging Station	⊖	Aqueduct	—
Route Marker State	—								

LAND STATUS LEGEND

Description	Printing Color	Description	Printing Color
Public Domain (Including National Resource Lands)	Yellow	Patented	Blank
O & C Lands	Lt. Green	State Lands *	Dk. Blue
CBWR Coos Bay Wagon Road	Violet	Reclamation and Water Power Projects Withdrawal	Warm Red
National Forest	Green	Powersite Withdrawal	Warm Red
National Parks and Monuments	Purple	Federal Agency Protective Wdl.	Warm Red
Indian Lands or Reservation	Orange	AEC Withdrawal	Warm Red
Military Reservation and Military Withdrawal	Red	Public Water Reserve	Warm Red
Wildlife Refuge	Blue Green	O & C Lands Adm. by U. S. F. S.	Green
Bonkhead - Jones L.U. Lands	Pink	Radio & Air Facilities	Green
		Miscellaneous	Green
		* State Wildlife, Parks And Outdoor Recreation Areas	Blue

COLORADO

WYOMING



MINERALS OWNED BY THE FEDERAL GOVERNMENT

Symbol	Mineral Rights
	All Minerals
	Coal Only
	Oil and Gas Only
	Oil, Gas, and Coal Only
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	No symbol indicates no Federal minerals.

Note: Acquired and L.U. may include term or fractional interest for mineral shown.

scale 1:126,720

1974
COAL LEASE OVERPRINT SEPT 1975

NW-2

7

7

7

COLOR QUAD LEGEND

N.W. COLORADO COAL E.I.S. COAL LEASES

Leases and Lease Applications

BLM proposed coal leasing areas

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QUAD INDEX MAP COLORADO

NW-1	NW-2	NW-3	NW-4	NW-5	NW-6	NE-1	NE-2	NE-3	NE-4	NE-5
NW-7	NW-8	NW-9	NW-10	NW-11	NW-12	NE-6	NE-7	NE-8	NE-9	NE-10
NW-13	NW-14	NW-15	NW-16	NW-17	NW-18	NE-11	NE-12	NE-13	NE-14	NE-15
NW-19	NW-20	NW-21	NW-22	NW-23	NW-24	NE-16	NE-17	NE-18	NE-19	NE-20
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SW-7	SW-8	SW-9	SW-10	SW-11	SW-12	SE-6	SE-7	SE-8	SE-9	SE-10
SW-13	SW-14	SW-15	SW-16	SW-17	SW-18	SE-11	SE-12	SE-13	SE-14	SE-15
SW-19	SW-20	SW-21	SW-22	SW-23	SW-24	SE-16	SE-17	SE-18	SE-19	SE-20
SW-25	SW-26	SW-27	SW-28	SW-29	SW-30	SE-21	SE-22	SE-23	SE-24	SE-25

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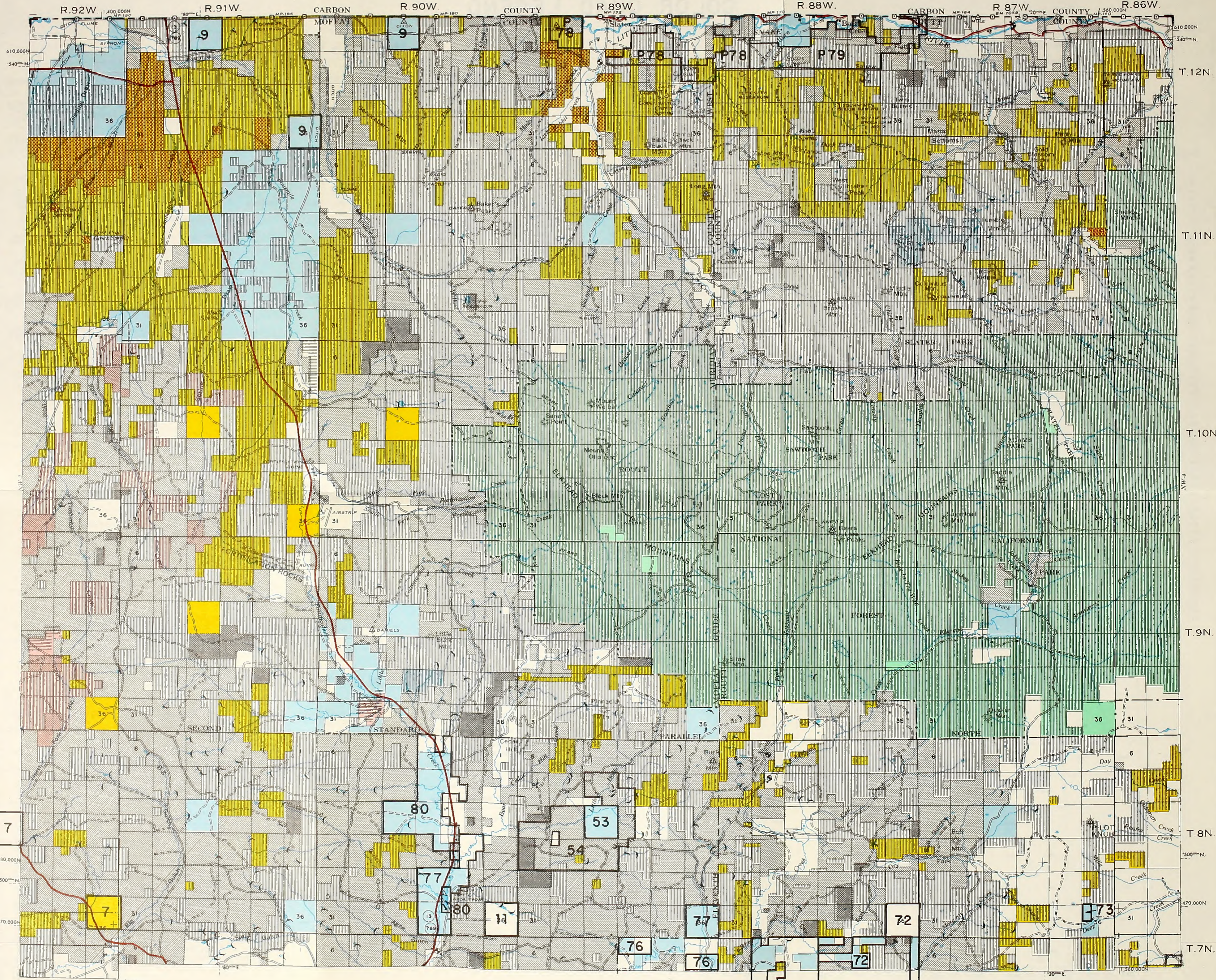
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District Bdy		Road All Weather		Principal Access		Buildings		Towns and Cities	
Nat'l or State		Road Seasonal Use				Buildings (Abandoned)		River or Large Stream	
		Road "Jeep" Type "Primitive"		Road Interchange		BLM Office		Stream	
Continental Divide		Trail		Rest Area		School		Large Dam	
County		Railroad Double Track				Church		Reservoir or Retention Dam	
Land Grant		Railroad Single Track				Radio Installation		Lake or Pond	
Miscellaneous (Res., etc.)		Glacier		Levee or Dike		Fire Lookout (Primary)		Intermittent Lake or Pond	
Park (State, County or Local)		Road Bridge		Corral		Fire Lookout (Secondary)		Dry Lake or Pond	
Township and Range		Railroad Bridge		Recreation Site		Fire Tool Cache		Marsh	
Section		Foot Bridge		Tanks (label as to type)		Shelter		Spring	
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Section Identification		Road Ford		Mine or Quarry		Ruins Small		Well	
State Plane Coordinates And Zone		Trail Ford		US Mineral or Location Monument		Ruins Large		Artesian Well	
Boundary Monument		Road Tunnel		Located Object (Labeled)		Sawmill		Windmill	
Route Marker Interstate		Railroad Tunnel		Triangulation Station		Airfield		Aqueduct Tunnel	
Route Marker U.S.				Bluffs or Cliffs				Ditch or Canal	
Route Marker State		Prominent Peak		Prominent Ridge		Gaging Station		Aqueduct	

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O & C Lands	Lt. Green	State Lands *	Dk Blue
CBWR Coos Bay Wagon Road	Violet	Reclamation and Water Power Projects Withdrawal	Warm Red
National Forest	Green	Powersite Withdrawal	Warm Red
National Parks and Monuments	Purple	Federal Agency Protective Wdl.	Warm Red
Indian Lands or Reservation	Orange	AEC Withdrawal	Warm Red
Military Reservation and Military Withdrawal	Red	Public Water Reserve	Warm Red
Wildlife Refuge	Blue Green	O & C Lands Adm. by U. S. F. S.	Green
Bankhead - Jones L.U. Lands	Pink	Radio & Air Facilities	Green
		Miscellaneous	Green
		* State Wildlife, Parks And Outdoor Recreation Areas	Blue

COLORADO

WYOMING



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Scale 1:26,720

7

77

NW 9
1974
COAL LEASE OVERPRINT SEPT 1975

42

73

NW-3

COLOR QUAD LEGEND

N.W. COLORADO COAL E.I.S. COAL LEASES

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16	James C. Goodwin	C-0127927	75	Peabody Coal	305/13
17	James C. Goodwin	C-0127891	76	W.R. Grace	C-22836
18	Thomas C. Woodward	383/13	77	Sunflower Corp.	394/13
19	Arnold Gilbert	286/13	78	Kemmerer Coal Co.	C-3606
20	W.R. Grace	D-034365	79	Kemmerer Coal Co.	C-3605
21	Gulf Oil (Pittsburgh & Midway Coal Mining Co.)	D-033327	80	Kerr-McGee Corp.	396/13
22	Gulf Oil Corp.	D-041478	81	Victor P. Stabio	424/13
23	Gulf Oil Corp.	C-021501	82	Robert H. Gleason & L.C. Craig	409/13
24	Gulf Oil Corp.	D-053710	83	Robert H. Gleason & L.C. Craig	410/13
25	Joe Petranovich	D-052546	84	Eron E. Nowell	432/13
26	Routt Mining Corp.	C-0127592	85	George Brennan, Jr.	332/13
27	Routt Mining Corp.	D-046544	86	Superior Oil Corp.	331/13
28	Meneotis Sheep Co.	D-051376	87	Consolidation Coal Co.	C-1545
29	Ruby Construction Co.	D-051698	88	Consolidation Coal Co.	C-1546
30	Morgan Coal Co.	D-052547	89	Consolidation Coal Co.	C-093713
31	Franklin Real Estate (Amer. Elec. Power)	C-012894	90	Consolidation Coal Co.	C-093714
32	Morgan Coal Co.	C-081330	91	Consolidation Coal Co.	C-093715
33	Morgan Coal Co.	C-0128433	92	Consolidation Coal Co.	C-093716
34	Energy Fuels Corp.	C-20900	93	Commonwealth Coal Co.	D-044240
35	Morgan Coal Co.	C-16284	94	American Fuels Corp.	C-076713
36	Peabody Coal (Seneca I)	C-088199	95	W.R. Grace	C-22837
37	Peabody Coal (Seneca I)	C-086654	96	W.R. Grace	C-22838
38	Peabody Coal (Seneca I)	C-0114093	97	W.R. Grace	C-22839
39	Material Service Corp. (Seneca II)	C-081251	98	Phillip A. Jensen & K.W. Miller	C-4275
40	Material Service Corp. (Seneca II) 279/13	C-081258	99	Ember Mining Co.	C-0126997
41	United Electric Coal Co.	279/13	100	Ember Mining Co.	C-0126998
42	Mapco Inc.	392/13	101	Ember Mining Co.	C-0126999
43	Utah International, Inc.	C-079641	102	Paul E. Riebold	C-028875
44	Utah International, Inc.	C-07519	103	Reliable Coal Mining Co.	D-047201
45	Utah International, Inc.	C-07518	104	L.C. Craig	C-0125366
46	Utah International, Inc.	C-3506	105	Moon Lake Electric	C-8424
47	Utah International, Inc.	C-0126480	106	Moon Lake Electric	C-8425
48	Utah International, Inc.	C-813	107	Gordon Staley Coal	C-0126669
49	Empire Energy Corp.	C-14738	108	Moon Lake Electric	C-023703
50	Utah International, Inc.	257/13	109	Commonwealth Coal Co.	C-15846
51	Utah International, Inc.	206/13	110	Coal Fuels Corp.	C-22546
52	Ferne M. James	C-064416	111	Moon Lake Electric	C-22654
53	Pittsburgh & Midway Coal Mining Co.	266/13	112	Energy Fuels Corp.	C-22644
54	Peabody Coal Co.	C-0125957	113	Halandras Brothers	C-22628
55	Empire Energy	C-13154	114	Energy Fuels	C-22677
56	Cossard, Inc.	C-16618	115	Energy Fuels	C-22676
57	Utah International, Inc.	C-0123475	116	Empire Energy Corp.	C-14739
58	Utah International, Inc.	C-0123476	117	Peabody Coal Co.	C-22786
59	Peabody Coal Co.	C-19885			

QUAD INDEX MAP COLORADO

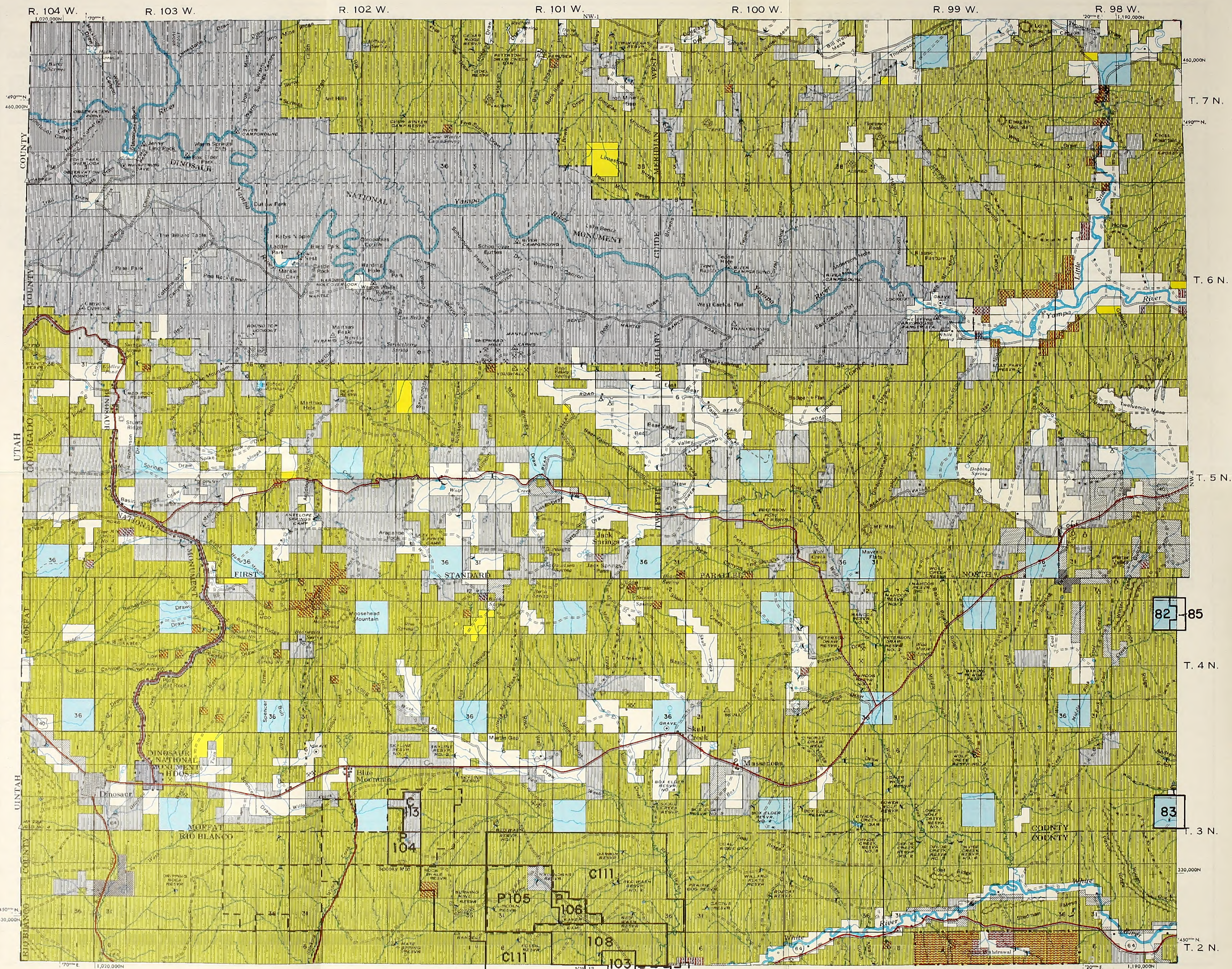
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NW-6	NW-7	NW-8	NW-9	NW-10	NW-11	NE-6	NE-7	NE-8	NE-9	NE-10
NW-11	NW-12	NW-13	NW-14	NW-15	NW-16	NE-11	NE-12	NE-13	NE-14	NE-15
NW-16	NW-17	NW-18	NW-19	NW-20	NW-21	NE-16	NE-17	NE-18	NE-19	NE-20
NW-21	NW-22	NW-23	NW-24	NW-25	NW-26	NE-21	NE-22	NE-23	NE-24	NE-25
NW-26	NW-27	NW-28	NW-29	NW-30	NW-31	NE-26	NE-27	NE-28	NE-29	NE-30
NW-31	NW-32	NW-33	NW-34	NW-35	NW-36	SE-1	SE-2	SE-3	SE-4	SE-5
NW-36	NW-37	NW-38	NW-39	NW-40	NW-41	SE-6	SE-7	SE-8	SE-9	SE-10
NW-41	NW-42	NW-43	NW-44	NW-45	NW-46	SE-11	SE-12	SE-13	SE-14	SE-15
NW-46	NW-47	NW-48	NW-49	NW-50	NW-51	SE-16	SE-17	SE-18	SE-19	SE-20
NW-51	NW-52	NW-53	NW-54	NW-55	NW-56	SE-21	SE-22	SE-23	SE-24	SE-25

MAP SYMBOLS

Feature	Symbol	Feature	Symbol	Feature	Symbol	Feature	Symbol	Feature	Symbol
District Bdy	— — — — —	Road All Weather	===== Divided	Principal Access	===== Divided	Buildings	■	Towns and Cities	■
Nat'l or State	— — — — —	Road Seasonal Use	-----			Buildings (Abandoned)	○	River or Large Stream	~~~~~
		Road "Jeep" Type "Primitive"	- - - - -	Road Interchange	⊕	BLM Office	■	Stream	~~~~~
Continental Divide	— — — — —	Trail	- - - - -	Rest Area	⊕	School	■	Large Dam	⊕
County	— — — — —	Railroad Double Track	===== 			Church	■	Reservoir or Retention Dam	⊕
Land Grant	— . . . —	Railroad Single Track	===== 			Radio Installation	■	Lake or Pond	⊕
Miscellaneous (Res., etc.)	— . . . —	Glacier	~~~~~	Levee or Dike	===== 	Fire Lookout (Primary)	⊕	Intermittent Lake or Pond	~~~~~
Park (State, County or Local)	— — — — —	Road Bridge	⊕	Corral	⊕	Fire Lookout (Secondary)	⊕	Dry Lake or Pond	~~~~~
Township and Range	Surveyed Protracted	Railroad Bridge	⊕	Recreation Site	⊕	Fire Tool Cache	■	Marsh	~~~~~
Section	Surveyed Protracted	Foot Bridge	⊕	Tanks (label as to type)	⊕	Shelter	■	Spring	⊕
Sec., Status Subdivision		Ferry	⊕	Oil or Gas Wells	⊕	Cliff Dwelling	■	Improved Spring	⊕
Section Identification	6	Road Ford	⊕	Mine or Quarry	⊕	Small Ruins	○	Well	○
State Plane Coordinates And Zone	1,500,000E	Trail Ford	⊕	US Mineral or Location Monument	⊕	Large Ruins	⊕	Artesian Well	⊕
Boundary Monument	— ⊕ —	Road Tunnel	===== 	Located Object (Labeled)	⊕	Sawmill	■	Windmill	⊕
Route Marker Interstate	⊕	Railroad Tunnel	===== 	Triangulation Station	⊕	Airfield	⊕	Aqueduct Tunnel	⊕
Route Marker U.S.	⊕			Bluffs or Cliffs	~~~~~			Ditch or Canal	⊕
Route Marker State	⊕	Prominent Peak	⊕	Prominent Ridge	~~~~~	Gaging Station	⊕	Aqueduct	⊕

LAND STATUS LEGEND

Description	Printing Color	Description	Printing Color
Public Domain (Including National Resource Lands)	Yellow	Patented	Blank
O & C Lands	Lt. Green	State Lands *	Dk Blue
C BWR Coos Bay Wagon Road	Violet	Reclamation and Water Power Projects Withdrawal	Warm Red
National Forest	Green	Powersite Withdrawal	Warm Red
National Parks and Manuments	Purple	Federal Agency Protective Wdl.	Warm Red
Indian Lands or Reservation	Orange	AEC Withdrawal	Warm Red
Military Reservation and Military Withdrawal	Red	Public Water Reserve	Warm Red
Wildlife Refuge	Blue Green	O & C Lands Adm. by U. S. F. S.	Green
Bonkhead - Jones L. U. Lands	Pink	Radio & Air Facilities	Green
		Miscellaneous	Green
		* State Wildlife, Parks And Outdoor Recreation Areas	Blue



MINERALS OWNED BY THE FEDERAL GOVERNMENT

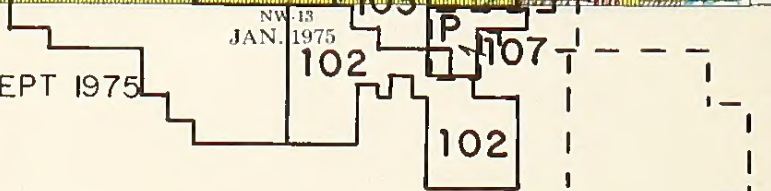
Symbol	Mineral Rights
[Green hatched pattern]	All Minerals
[Blue hatched pattern]	Coal Only
[Diagonal hatched pattern]	Oil and Gas Only
[Cross-hatched pattern]	Oil, Gas, and Coal Only
[Horizontal hatched pattern]	Other
[No symbol]	No symbol indicates no Federal minerals

Note: Acquired and L.U. may include term or fractional interest for mineral shown.

SCALE 1:126,720
1/2 INCH = 1 MILE SERIES

COAL LEASE OVERPRINT SEPT 1975

JAN. 1975



COLORADO

COLOR QUAD LEGEND

N.W. COLORADO COAL E.I.S. COAL LEASES

Leases and Lease Applications ———

BLM proposed coal leasing areas - - - - -

Code numbers with a "C" prefix are competitive lease applications.
 Code numbers with a "P" prefix are preferred right lease applications.
 Lease numbers with a "C" or "D" prefix are federal leases.
 Lease numbers with two part numbers (000/00) are state leases.

Code #	Firm (Lease Holder)	Lease #	60	61	62
1	Empire Energy Corp.	C-14737	Driftwood Oil Corp.: Peabody Coal (408/13)	384/13	
2	Empire Energy Corp.	D-056298	Grassy Creek Coal Co.	323/13	
3	Empire Energy Corp.	C-21981	Consolidated Coal Co.	C-245	
4	Empire Energy Corp.	C-0127865	George Brennan, Jr.	324/13	
5	Empire Energy Corp.	358/13	Charles C. Hughes	401/13	
6	Empire Energy Corp.	366/13	George Brennan, Jr.	325/13	
7	Ark Land Co.	345/13	George Brennan, Jr.	397/13	
8	K. Parry, Ass'd. Paul S. Coupey (430/13)	365/13	George Brennan, Jr.	333/13	
9	Kemmerer Coal Co.	370/13	Energy Fuels Corp. (Morgan)	C-9968	
10	John Wanner	285/13	Pittsburgh & Midway Coal Mining Co.	265/13	
11	Peabody Coal Co.	307/13	Peabody Coal Co.	306/13	
12	Charles C. Hughes	402/13	Mapco, Inc.	371/13	
13	Arnold Gilbert	299/13	Page T. Jenkins: Ass'd. J. McDonough (379/13)	393/13	
14	James C. Goodwin	C-3440	K. Parry, Ass'd. Paul S. Coupey (429/13)	364/13	
15	James C. Goodwin	C-0127926	Morgan Coal Co.	235/13	
16	James C. Goodwin	C-0127927	Peabody Coal	305/13	
17	James C. Goodwin	C-0127891	W.R. Grace	C-22836	
18	Thomas C. Woodward	383/13	Sunflower Corp.	394/13	
19	Arnold Gilbert	286/13	Kemmerer Coal Co.	C-3606	
20	W.R. Grace	D-034365	Kemmerer Coal Co.	C-3605	
21	Culf Oil (Pittsburgh & Midway Coal Mining Co.)	D-033327	Kerr-McGee Corp.	396/13	
22	Gulf Oil Corp.	D-041478	Victor P. Stabio	424/13	
23	Gulf Oil Corp.	C-021501	Robert H. Gleason & L.C. Craig	409/13	
24	Gulf Oil Corp.	D-053710	Robert H. Gleason & L.C. Craig	410/13	
25	Joe Petranovich	D-052546	Erion E. Nowell	432/13	
26	Routt Mining Corp.	C-0127592	George Brennan, Jr.	332/13	
27	Routt Mining Corp.	D-046544	Superior Oil Corp.	331/13	
28	Maneotis Sheep Co.	D-051376	Consolidation Coal Co.	C-1545	
29	Ruby Construction Co.	D-051698	Consolidation Coal Co.	C-1546	
30	Morgan Coal Co.	D-052547	Consolidation Coal Co.	C-093713	
31	Franklin Real Estate (Amer. Elec. Power)	C-012894	Consolidation Coal Co.	C-093714	
32	Morgan Coal Co.	C-081330	Consolidation Coal Co.	C-093715	
33	Morgan Coal Co.	C-0128433	Consolidation Coal Co.	C-093716	
34	Energy Fuels Corp.	C-20900	Commonwealth Coal Co.	D-044240	
35	Morgan Coal Co.	C-16284	American Fuels Corp.	C-076713	
36	Peabody Coal (Seneca I)	C-088199	W.R. Grace	C-22837	
37	Peabody Coal (Seneca II)	C-086654	W.R. Grace	C-22838	
38	Peabody Coal (Seneca III)	C-0114093	W.R. Grace	C-22839	
39	Material Service Corp. (Seneca I)	C-081251	Phillip A. Jensen & K.W. Miller	C-4275	
40	Material Service Corp. (Seneca II) 279/13	C-081258	Ember Mining Co.	C-0126997	
41	United Electric Coal Co.	279/13	Ember Mining Co.	C-0126998	
42	Mapco Inc.	392/13	Ember Mining Co.	C-0126999	
43	Utah International, Inc.	C-079641	Paul E. Riebold	C-028875	
44	Utah International, Inc.	C-07519	Reliable Coal Mining Co.	D-047201	
45	Utah International, Inc.	C-07518	L.C. Craig	C-0125366	
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55	Empire Energy	C-13134	Energy Fuels	C-22677	
56	Cossard, Inc.	C-16618	Empire Energy Corp.	C-14739	
57	Utah International, Inc.	C-0123475	Peabody Coal Co.	C-22786	
58	Utah International, Inc.	C-0123476			
59	Peabody Coal Co.	C-19885			

QUAD INDEX MAP COLORADO

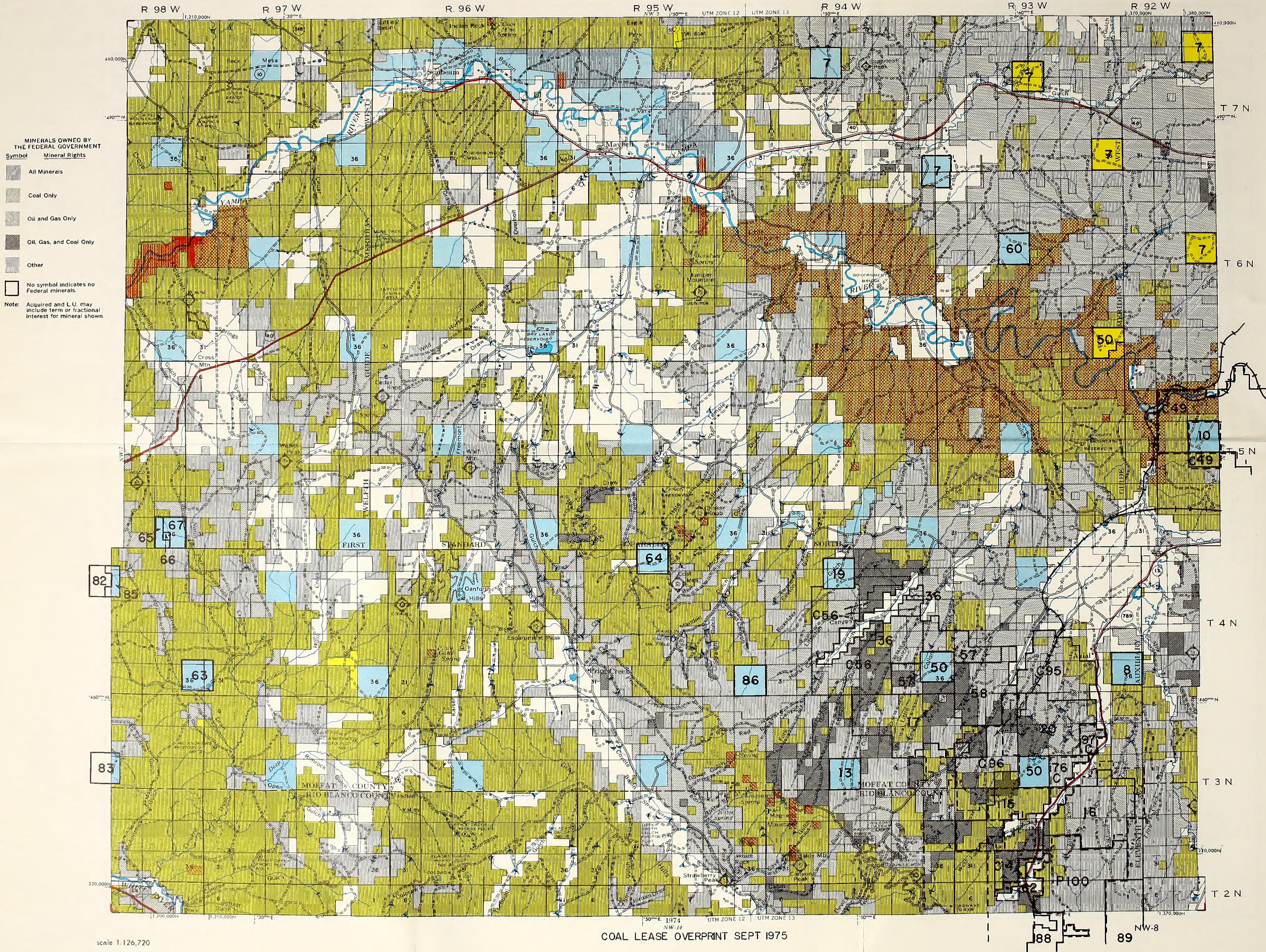
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NW-7	NW-8	NW-9	NW-10	NW-11	NW-12	NE-6	NE-7	NE-8	NE-9	NE-10
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NW-19	NW-20	NW-21	NW-22	NW-23	NW-24	NE-16	NE-17	NE-18	NE-19	NE-20
NW-25	NW-26	NW-27	NW-28	NW-29	NW-30	NE-21	NE-22	NE-23	NE-24	NE-25
SW-1	SW-2	SW-3	SW-4	SW-5	SW-6	SE-1	SE-2	SE-3	SE-4	SE-5
SW-7	SW-8	SW-9	SW-10	SW-11	SW-12	SE-6	SE-7	SE-8	SE-9	SE-10
SW-13	SW-14	SW-15	SW-16	SW-17	SW-18	SE-11	SE-12	SE-13	SE-14	SE-15
SW-19	SW-20	SW-21	SW-22	SW-23	SW-24	SE-16	SE-17	SE-18	SE-19	SE-20
SW-25	SW-26	SW-27	SW-28	SW-29	SW-30	SE-21	SE-22	SE-23	SE-24	SE-25

MAP SYMBOLS

Feature	Symbol	Feature	Symbol	Feature	Symbol	Feature	Symbol	Feature	Symbol
District Bdy	—	Road All Weather	===== Divided	Principol Access	===== Divided	Buildings	■	Towns and Cities	■
Nat'l or State	— - - - -	Road Seasonal Use	— - - - -	Road Interchange	⊕	Buildings (Abandoned)	○	River or Large Stream	—
Continental Divide	— — — — —	Road "Jeep" Type "Primitive"	— - - - -	Rest Area	⊕	BLM Office	■	Stream	—
County	— — — — —	Trail	— - - - -	Railroad Double Track	===== 	School	■	Large Dam	—
Land Grant	— . . . —	Railroad Single Track	===== 	Glacier	⊕	Church	■	Reservoir or Retention Dam	—
Miscellaneous (Res., etc.)	— . . . —	Glocier	⊕	Levee or Dike	⊕	Radio Installation	■	Lake or Pond	⊕
Park (State, County or Local)	— - - - -	Road Bridge	⊕	Corrol	⊕	Fire Lookout (Primary)	⊕	Intermittent Lake or Pond	⊕
Township and Range	Surveyed — Protracted —	Railroad Bridge	⊕	Recreation Site	⊕	Fire Lookout (Secondary)	⊕	Dry Lake or Pond	⊕
Section	Surveyed — Protracted —	Foot Bridge	⊕	Tanks (label as to type)	⊕	Fire Tool Cache	⊕	Marsh	⊕
Sec. Status Subdivision	—	Ferry	⊕	Oil or Gas Wells	⊕	Shelter	⊕	Spring	⊕
Section Identification	6	Road Ford	⊕	Mine or Quarry	⊕	Cliff Dwelling	⊕	Improved Spring	⊕
State Plane Coordinates And Zone	1,500,000E	Trail Ford	⊕	US Mineral or Location Monument	⊕	Small Ruins	⊕	Well	⊕
Boundary Monument	⊕	Road Tunnel	⊕	Locoted Object (Labeled)	⊕	Large Ruins	⊕	Artesian Well	⊕
Route Marker Interstate	⊕	Railroad Tunnel	⊕	Triangulation Station	⊕	Cemetery	⊕	Windmill	⊕
Route Marker U.S.	⊕	Prominent Peak	⊕	Bluffs or Cliffs	⊕	Sawmill	⊕	Aqueduct Tunnel	⊕
Route Marker State	⊕	Prominent Ridge	⊕	Goging Station	⊕	Airfield	⊕	Ditch or Canal	⊕
								Aqueduct	⊕

LAND STATUS LEGEND

Description	Printing Color	Description	Printing Color
Public Domain (Including National Resource Lands)	Yellow	Potented	Blank
D & C Lands	Lt. Green	State Lands *	Dk. Blue
CBWR Coos Bay Wagon Road	Violet	Reclamation and Water Power Projects Withdrawal	Worm Red
National Forest	Green	Powersite Withdrawal	Worm Red
National Parks and Monuments	Purple	Federal Agency Protective Wdl.	Worm Red
Indian Lands or Reservation	Orange	AEC Withdrawal	Worm Red
Military Reservation and Military Withdrawal	Red	Public Water Reserve	Worm Red
Wildlife Refuge	Blue Green	D & C Lands Adm. by U.S.F.S.	Green
Bankhead - James L.U. Lands	Pink	Radio & Air Facilities	Green
		Miscellaneous	Green
		* State Wildlife, Parks And Outdoor Recreation Areas	Blue



COLOR QUAD LEGEND

N.W. COLORADO COAL E.I.S. COAL LEASES

Leases and Lease Applications —————

BLM proposed coal leasing areas - - - - -

Code numbers with a "C" prefix are competitive lease applications.
 Code numbers with a "P" prefix are preferred right lease applications.
 Lease numbers with a "C" or "D" prefix are federal leases.
 Lease numbers with two part numbers (000/00) are state leases.

Code #	Firm (Lease Holder)	Lease #	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117
1	Empire Energy Corp.	C-14737	Driftwood Oil Corp.: Peabody Coal (408/13)	384/13																																																								
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42	Mapco Inc.	392/13	Paul E. Riebold	C-028875																																																								
43	Utah International, Inc.	C-079541	Reliable Coal Mining Co.	D-047201																																																								
44	Utah International, Inc.	C-07519	L.C. Craig	C-0123366																																																								
45	Utah International, Inc.	C-07518	Moon Lake Electric	C-8424																																																								
46	Utah International, Inc.	C-3506	Moon Lake Electric	C-8425																																																								
47	Utah International, Inc.	C-0126480	Gordon Staley Coal	C-0126669																																																								
48	Utah International, Inc.	C-813	Moon Lake Electric	C-023703																																																								
49	Empire Energy Corp.	C-14738	Commonwealth Coal Co.	C-15846																																																								
50	Utah International, Inc.	257/13	Coal Fuels Corp.	C-22546																																																								
51	Utah International, Inc.	206/13	Moon Lake Electric	C-22654																																																								
52	Ferne M. James	C-064416	Energy Fuels Corp.	C-22644																																																								
53	Pittsburgh & Midway Coal Mining Co.	266/13	Halandras Brothers	C-22628																																																								
54	Peabody Coal Co.	C-0125957	Energy Fuels	C-22677																																																								
55	Empire Energy	C-13134	Energy Fuels	C-22676																																																								
56	Cossard, Inc.	C-16618	Empire Energy Corp.	C-14739																																																								
57	Utah International, Inc.	C-0123475	Peabody Coal Co.	C-22786																																																								
58	Utah International, Inc.	C-0123476																																																										
59	Peabody Coal Co.	C-19885																																																										

QUAD INDEX MAP COLORADO

NW-1	NW-2	NW-3	NW-4	NW-5	NW-6	NE-1	NE-2	NE-3	NE-4	NE-5
NW-7	NW-8	NW-9	NW-10	NW-11	NW-12	NE-6	NE-7	NE-8	NE-9	NE-10
NW-13	NW-14	NW-15	NW-16	NW-17	NW-18	NE-11	NE-12	NE-13	NE-14	NE-15
NW-19	NW-20	NW-21	NW-22	NW-23	NW-24	NE-16	NE-17	NE-18	NE-19	NE-20
NW-25	NW-26	NW-27	NW-28	NW-29	NW-30	NE-21	NE-22	NE-23	NE-24	NE-25
SW-1	SW-2	SW-3	SW-4	SW-5	SW-6	SE-1	SE-2	SE-3	SE-4	SE-5
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SW-25	SW-26	SW-27	SW-28	SW-29	SW-30	SE-21	SE-22	SE-23	SE-24	SE-25

MAP SYMBOLS

Feature	Symbol	Feature	Symbol	Feature	Symbol	Feature	Symbol	Feature	Symbol
District Bdy	—————	Road All Weather	===== ===== =====	Principal Access	===== ===== =====	Buildings	■	Towns and Cities	■
Nat'l or State	-----	Road Seasonal Use	-----			Buildings (Abandoned)	□	River or Large Stream	~~~~~
		Road "Jeep" Type "Primitive"	- - - - -	Road Interchange	⊕	BLM Office	■	Stream	~~~~~
Continental Divide	—————	Trail	- - - - -	Rest Area	⊕	School	■	Large Dam	⊕
County	-----	Railroad Double Track	===== =====			Church	■	Reservoir or Retention Dam	⊕
Land Grant	-----	Railroad Single Track	===== -----			Radio Installation	■	Lake or Pond	⊕
Miscellaneous (Res., etc.)	-----	Glacier	~~~~~	Levee or Dike	~~~~~	Fire Lookout (Primary)	⊕	Intermittent Lake or Pond	⊕
Park (State, County or Local)	-----	Road Bridge	⊕	Carrol	⊕	Fire Lookout (Secondary)	⊕	Dry Lake or Pond	⊕
Township and Range	Surveyed Protracted	Railroad Bridge	⊕	Recreation Site	⊕	Fire Tool Cache	■	Marsh	~~~~~
Section	Surveyed Protracted	Foot Bridge	⊕	Tanks-(label as to type)	⊕	Shelter	■	Spring	⊕
Sec., Status Subdivision	-----	Ferry	⊕	Oil or Gas Wells	⊕	Cliff Dwelling	■	Improved Spring	⊕
Section Identification	6	Road Ford	⊕	Mine or Quarry	⊕	Small Ruins	□	Well	⊕
State Plane Coordinates And Zone	1,500,000E	Trail Ford	⊕	US Mineral or Location Monument	⊕	Large Ruins	□	Artesian Well	⊕
Boundary Monument	⊕	Road Tunnel	⊕	Located Object (Labeled)	⊕	Cemetery	⊕	Windmill	⊕
Route Marker Interstate	⊕	Railroad Tunnel	⊕	Triangulation Station	⊕	Sawmill	■	Airfield	⊕
Route Marker U.S.	⊕			Bluffs or Cliffs	~~~~~			Aqueduct Tunnel	⊕
Route Marker State	⊕	Prominent Peak	⊕	Prominent Ridge	~~~~~	Gaging Station	⊕	Aqueduct	⊕

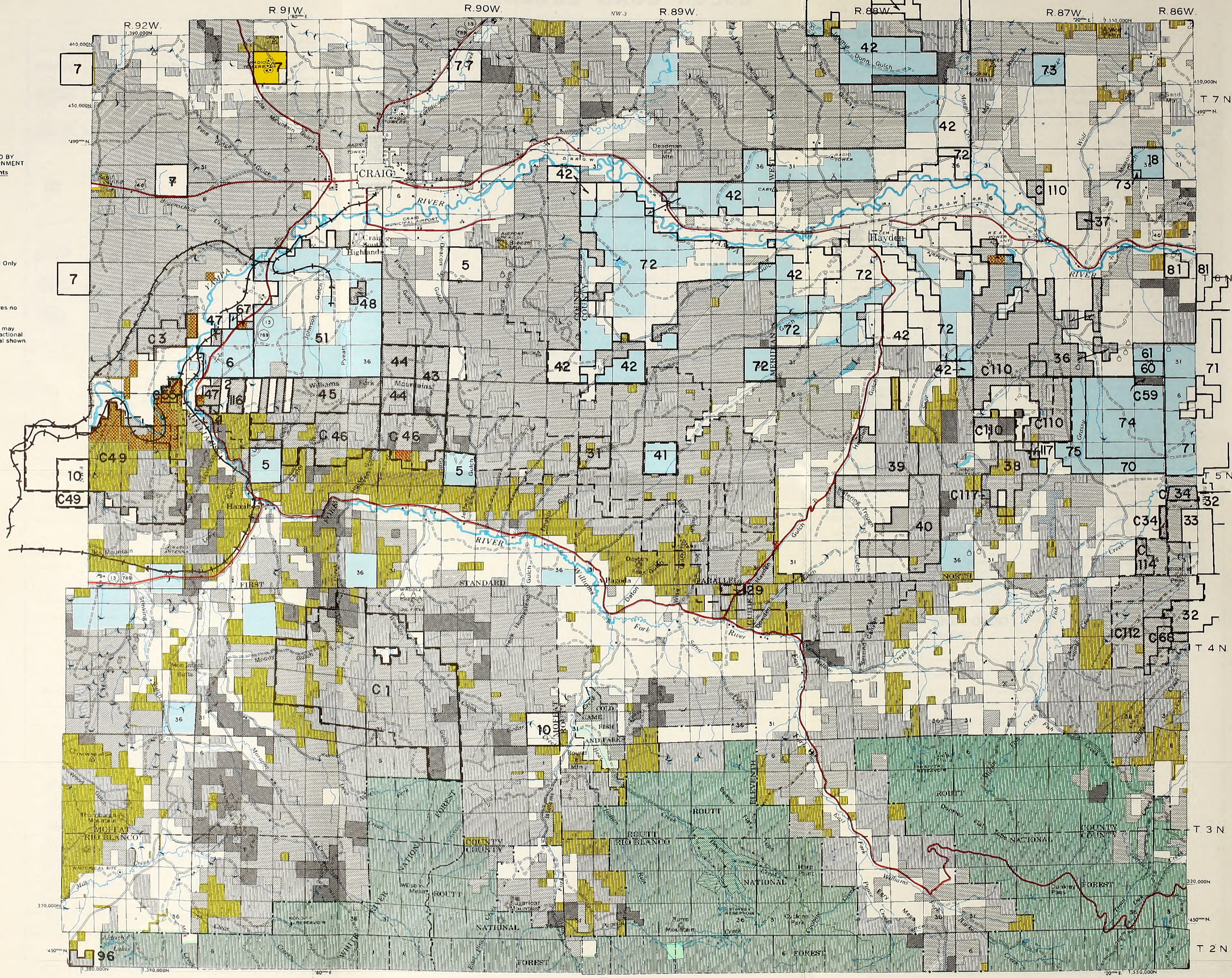
LAND STATUS LEGEND

Description	Printing Color	Description	Printing Color
Public Domain (Including National Resource Lands)	Yellow	Potented	Blank
O & C Lands	Lt. Green	State Lands *	Dk. Blue
CBWR Coos Bay Wagon Road	Violet	Reclamation and Water Power Projects Withdrawal	Warm Red
National Forest	Green	Powersite Withdrawal	Warm Red
National Parks and Monuments	Purple	Federal Agency Protective Wd.	Warm Red
Indian Lands or Reservation	Orange	AEC Withdrawal	Warm Red
Military Reservation and Military Withdrawal	Red	Public Water Reserve	Warm Red
Wildlife Refuge	Blue Green	O & C Lands Adm. by U.S. F.S.	Green
Bankhead - Jones L.U. Lands	Pink	Radio & Air Facilities	Green
		Miscellaneous	Green
		* State Wildlife, Parks And Outdoor Recreation Areas	Blue

MINERALS OWNED BY THE FEDERAL GOVERNMENT

Symbol	Mineral Rights
[Diagonal lines /]	All Minerals
[Diagonal lines \]	Coal Only
[Horizontal lines]	Oil and Gas Only
[Vertical lines]	Oil, Gas, and Coal Only
[Cross-hatch]	Other
[Empty box]	No symbol indicates no Federal minerals.

Note: Acquired and L.U. may include term or fractional interest for mineral shown.



COLOR QUAD LEGEND

N.W. COLORADO COAL E.I.S. COAL LEASES

Leases and Lease Applications ————

BLM proposed coal leasing areas - - - - -

Code numbers with a "C" prefix are competitive lease applications.
Code numbers with a "P" prefix are preferred right lease applications.
Lease numbers with a "C" or "D" prefix are federal leases.
Lease numbers with two part numbers (000/00) are state leases.

Code #	Firm (Lease Holder)	Lease #			
1	Empire Energy Corp.	C-14737	60	Driftwood Oil Corp.: Peabody Coal (408/13)	384/13
2	Empire Energy Corp.	D-056298	61	Grassy Creek Coal Co.	323/13
3	Empire Energy Corp.	C-21981	62	Consolidated Coal Co.	C-245
4	Empire Energy Corp.	C-0127865	63	George Brennan, Jr.	324/13
5	Empire Energy Corp.	358/13	64	Charles C. Hughes	401/13
6	Empire Energy Corp.	366/13	65	George Brennan, Jr.	325/13
7	Ark Land Co.	345/13	66	George Brennan, Jr.	397/13
8	K. Parry: Ass'd. Paul S. Coupey (430/13)	365/13	67	George Brennan, Jr.	333/13
9	Kemmerer Coal Co.	370/13	68	Energy Fuels Corp. (Morgan)	C-9968
10	John Wanner	285/13	69	Pittsburgh & Midway Coal Mining Co.	265/13
11	Peabody Coal Co.	307/13	70	Peabody Coal Co.	306/13
12	Charles C. Hughes	402/13	71	Mapco, Inc.	371/13
13	Arnold Gilbert	299/13	72	Page T. Jenkins: Ass'd. J. McDonough (379/13)	393/13
14	James C. Goodwin	C-3440	73	K. Parry: Ass'd. Paul S. Coupey (429/13)	364/13
15	James C. Goodwin	C-0127926	74	Morgan Coal Co.	235/13
16	James C. Goodwin	C-0127927	75	Peabody Coal	305/13
17	James C. Goodwin	C-0127891	76	W.R. Grace	C-22836
18	Thomas C. Woodward	383/13	77	Sunflower Corp.	394/13
19	Arnold Gilbert	286/13	78	Kemmerer Coal Co.	C-3606
20	W.R. Grace	D-034365	79	Kemmerer Coal Co.	C-3605
21	Gulf Oil (Pittsburgh & Midway Coal Mining Co.)	D-033327	80	Kerr-McGee Corp.	396/13
22	Culf Oil Corp.	D-041478	81	Victor P. Stablo	424/13
23	Culf Oil Corp.	C-021501	82	Robert H. Gleason & L.C. Craig	409/13
24	Culf Oil Corp.	D-053710	83	Robert H. Gleason & L.C. Craig	410/13
25	Joe Petranovich	D-052546	84	Erlon E. Nowell	432/13
26	Routt Mining Corp.	C-0127592	85	George Brennan, Jr.	332/13
27	Routt Mining Corp.	D-046544	86	Superior Oil Corp.	331/13
28	Maneotis Sheep Co.	D-051376	87	Consolidation Coal Co.	C-1545
29	Ruby Construction Co.	D-051698	88	Consolidation Coal Co.	C-1546
30	Morgan Coal Co.	D-052547	89	Consolidation Coal Co.	C-093713
31	Franklin Real Estate (Amer. Elec. Power)	C-012894	90	Consolidation Coal Co.	C-093714
32	Morgan Coal Co.	C-081330	91	Consolidation Coal Co.	C-093715
33	Morgan Coal Co.	C-0128433	92	Consolidation Coal Co.	C-093716
34	Energy Fuels Corp.	C-20900	93	Commonwealth Coal Co.	D-044240
35	Morgan Coal Co.	C-16284	94	American Fuels Corp.	C-076713
36	Peabody Coal (Seneca I)	C-088199	95	W.R. Grace	C-22837
37	Peabody Coal (Seneca II)	C-086654	96	W.R. Grace	C-22838
38	Peabody Coal (Seneca III)	C-0114093	97	W.R. Grace	C-22839
39	Material Service Corp. (Seneca I)	C-081251	98	Phillip A. Jensen & K.W. Miller	C-4275
40	Material Service Corp. (Seneca II) 279/13	C-081258	99	Ember Mining Co.	C-0126997
41	United Electric Coal Co.	279/13	100	Ember Mining Co.	C-0126998
42	Mapco Inc.	392/13	101	Ember Mining Co.	C-0126999
43	Utah International, Inc.	C-079641	102	Paul E. Riebold	C-028875
44	Utah International, Inc.	C-07519	103	Reftable Coal Mining Co.	D-047201
45	Utah International, Inc.	C-07518	104	L.C. Craig	C-0125366
46	Utah International, Inc.	C-3506	105	Moon Lake Electric	C-8424
47	Utah International, Inc.	C-0126480	106	Moon Lake Electric	C-8425
48	Utah International, Inc.	C-813	107	Cordon Staley Coal	C-0126669
49	Empire Energy Corp.	C-14738	108	Moon Lake Electric	C-023703
50	Utah International, Inc.	257/13	109	Commonwealth Coal Co.	C-15946
51	Utah International, Inc.	206/13	110	Coal Fuels Corp.	C-22546
52	Ferne M. James	C-064416	111	Moon Lake Electric	C-22654
53	Pittsburgh & Midway Coal Mining Co.	266/13	112	Energy Fuels Corp.	C-22644
54	Peabody Coal Co.	C-0125957	113	Halandras Brothers	C-22628
55	Empire Energy	C-13134	114	Energy Fuels	C-22677
56	Cossard, Inc.	C-16618	115	Energy Fuels	C-22676
57	Utah International, Inc.	C-0123475	116	Empire Energy Corp.	C-14739
58	Utah International, Inc.	C-0123476	117	Peabody Coal Co.	C-22786
59	Peabody Coal Co.	C-19885			

QUAD INDEX MAP COLORADO

NW-1	NW-2	NW-3	NW-4	NW-5	NW-6	NE-1	NE-2	NE-3	NE-4	NE-5
NW-7	NW-8	NW-9	NW-10	NW-11	NW-12	NE-6	NE-7	NE-8	NE-9	NE-10
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SW-1	SW-2	SW-3	SW-4	SW-5	SW-6	SE-1	SE-2	SE-3	SE-4	SE-5
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SW-19	SW-20	SW-21	SW-22	SW-23	SW-24	SE-16	SE-17	SE-18	SE-19	SE-20
SW-25	SW-26	SW-27	SW-28	SW-29	SW-30	SE-21	SE-22	SE-23	SE-24	SE-25

MAP SYMBOLS

Feature	Symbol	Feature	Symbol	Feature	Symbol	Feature	Symbol	Feature	Symbol
District Bdy	—————	Road All Weather	<u>Divided</u>	Principal Access	<u>Divided</u>	Buildings	•	Towns and Cities	
Nat'l or State	-----	Road Seasonal Use	-----			Buildings (Abandoned)	•	River or Large Stream	
		Road "Jeep" Type "Primitive"	- - - - -	Road Interchange		BLM Office		Stream	
Continental Divide	—————	Trail	-----	Rest Area		Schaal	•	Large Dam	
County	-----	Railroad Double Track				Church	•	Reservoir or Retention Dam	
Land Grant	-----	Railroad Single Track	-----			Radio Installation	•	Lake or Pond	
Miscellaneous (Res., etc.)	-----	Glacier		Levee or Dike	-----	Fire Lookout (Primary)		Intermittent Lake or Pond	
Park (State, County or Local)	-----	Road Bridge		Corral		Fire Lookout (Secondary)		Dry Lake or Pond	
Township and Range	<u>Surveyed</u> <u>Protracted</u>	Railroad Bridge		Recreation Site		Fire Tool Cache		Marsh	
Section	<u>Surveyed</u> <u>Protracted</u>	Foot Bridge		Tanks (label as to type)		Shelter		Spring	
Sec., Status Subdivision	-----	Ferry		Oil or Gas Wells		Cliff Dwelling		Improved Spring	
Section Identification	6	Road Ford		Mine or Quarry		Small Ruins		Well	
State Plane Coordinates And Zone	1,500,000E	Trail Ford		US Mineral or Location Monument		Large Ruins		Artesian Well	
Boundary Monument		Road Tunnel		Located Object (Labeled)		Sawmill		Windmill	
Route Marker Interstate		Railroad Tunnel		Triangulation Station		Airfield		Aqueduct Tunnel	
Route Marker U. S.				Bluffs or Cliffs				Ditch or Canal	
Route Marker State		Prominent Peak		Prominent Ridge		Gaging Station		Aqueduct	

LAND STATUS LEGEND

Description	Printing Color	Description	Printing Color
Public Domain (Including National Resource Lands)	Yellow	Potented	Blank
		State Lands *	Dk Blue
O & C Lands	Lt. Green	Reclamation and Water Power Projects Withdrawal	Warm Red
CBWR Coos Bay Wagan Road	Violet		Powersite Withdrawal
National Forest	Green	Federal Agency Protective Wdl.	Warm Red
National Parks and Monuments	Purple	AEC Withdrawal	Warm Red
Indian Lands or Reservation	Orange	Public Water Reserve	Warm Red
Military Reservation and Military Withdrawal	Red	O & C Lands Adm. by U. S. F. S.	Green
Wildlife Refuge	Blue Green	Radio & Air Facilities	Green
Bankhead - James L. U. Lands	Pink	Miscellaneous	Green
		* State Wildlife, Parks And Outdoor Recreation Areas	Blue

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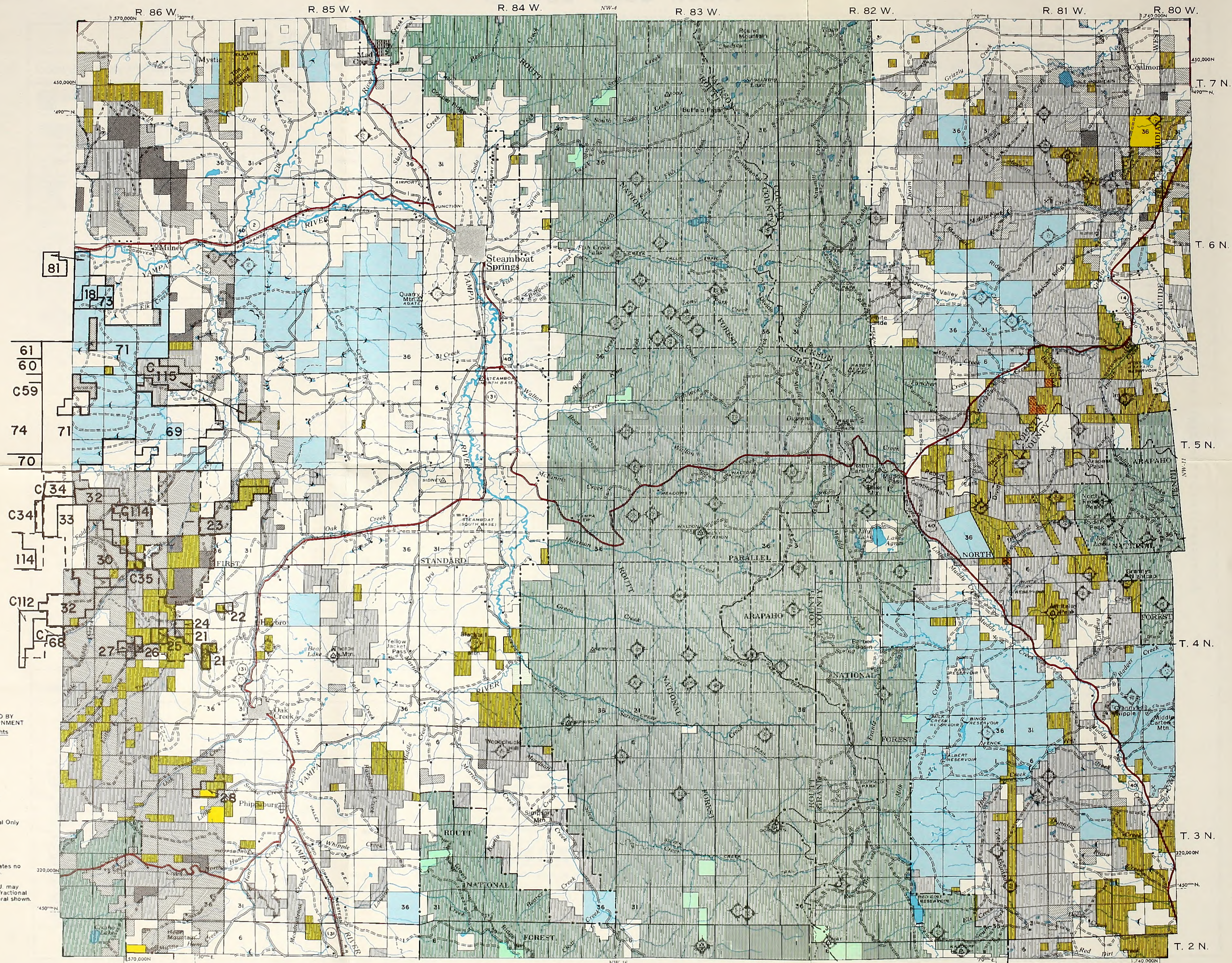
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AUTHORIZED BY: Bob Amodeo
(FULL NAME) Title Director



MINERALS OWNED BY THE FEDERAL GOVERNMENT

Symbol	Mineral Rights
[Diagonal hatching]	All Minerals
[Cross-hatching]	Coal Only
[Vertical hatching]	Oil and Gas Only
[Horizontal hatching]	Oil, Gas, and Coal Only
[Stippled pattern]	Other
[No symbol]	No symbol indicates no Federal minerals

Note: Acquired and L.U. may include term or fractional interest for mineral shown.

COLOR QUAD LEGEND

N.W. COLORADO COAL E.I.S. COAL LEASES

Leases and Lease Applications ————

BLM proposed coal leasing areas - - - - -

Code numbers with a "C" prefix are competitive lease applications.
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Code #	Firm (Lease Holder)	Lease #	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	384/13	323/13	C-245	324/13	401/13	325/13	397/13	333/13	C-3958	265/13	306/13	371/13	393/13	364/13	235/13	305/13	C-22836	394/13	C-3606	C-3605	396/13	424/13	409/13	410/13	432/13	332/13	331/13	C-1545	C-1546	C-093713	C-093714	C-093715	C-093716	D-044240	C-076713	C-22837	C-22838	C-22839	C-4275	C-0126997	C-0426998	C-0126999	D-028875	D-047201	C-0125366	C-8424	C-8425	C-0126669	C-023703	C-15846	C-22546	C-22654	C-22644	C-22628	C-22677	C-22676	C-14739	C-22786
1	Empire Energy Corp.	C-14737	Driftwood Oil Corp.: Peabody Coal (408/13)	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	384/13	323/13	C-245	324/13	401/13	325/13	397/13	333/13	C-3958	265/13	306/13	371/13	393/13	364/13	235/13	305/13	C-22836	394/13	C-3606	C-3605	396/13	424/13	409/13	410/13	432/13	332/13	331/13	C-1545	C-1546	C-093713	C-093714	C-093715	C-093716	D-044240	C-076713	C-22837	C-22838	C-22839	C-4275	C-0126997	C-0426998	C-0126999	D-028875	D-047201	C-0125366	C-8424	C-8425	C-0126669	C-023703	C-15846	C-22546	C-22654	C-22644	C-22628	C-22677	C-22676	C-14739	C-22786

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County	-----	Railroad Double Track	====+====	Church		Reservoir or Retention Dam			
Land Grant	-----	Railroad Single Track	====+====	Radio Installation		Lake or Pond			
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Route Marker U.S.				Bluffs or Cliffs		Ditch or Canal			
Route Marker State		Prominent Peak		Prominent Ridge		Gaging Station		Aqueduct	

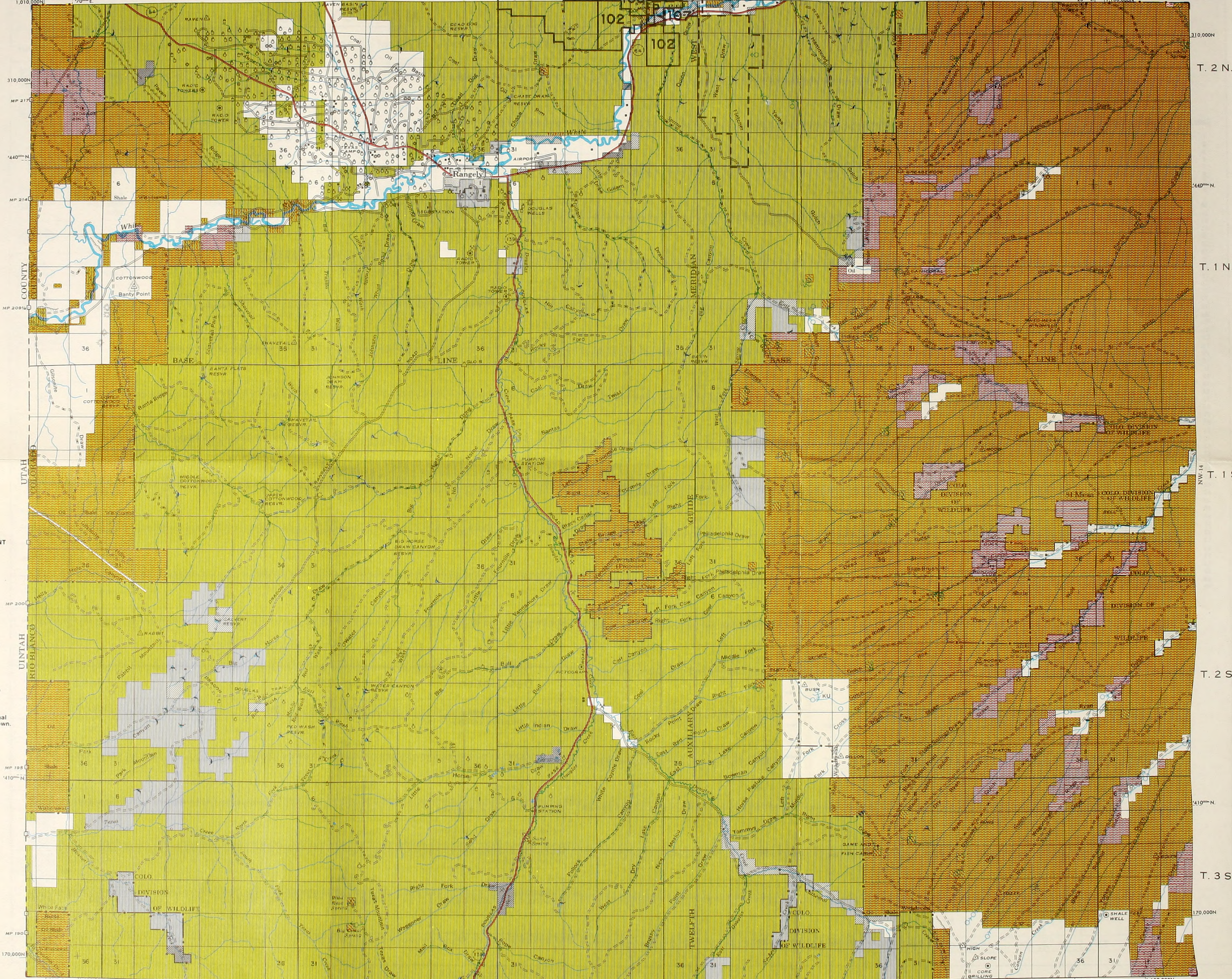
QUAD INDEX MAP COLORADO

NW-1	NW-2	NW-3	NW-4	NW-5	NW-6	NE-1	NE-2	NE-3	NE-4	NE-5
NW-7	NW-8	NW-9	NW-10	NW-11	NW-12	NE-6	NE-7	NE-8	NE-9	NE-10
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NW-19	NW-20	NW-21	NW-22	NW-23	NW-24	NE-16	NE-17	NE-18	NE-19	NE-20
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SW-1	SW-2	SW-3	SW-4	SW-5	SW-6	SE-1	SE-2	SE-3	SE-4	SE-5
SW-7	SW-8	SW-9	SW-10	SW-11	SW-12	SE-6	SE-7	SE-8	SE-9	SE-10
SW-13	SW-14	SW-15	SW-16	SW-17	SW-18	SE-11	SE-12	SE-13	SE-14	SE-15
SW-19	SW-20	SW-21	SW-22	SW-23	SW-24	SE-16	SE-17	SE-18	SE-19	SE-20
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O & C Lands	Lt. Green	Reclamation and Water Power Projects Withdrawal	Warm Red
National Forest	Green	Powersite Withdrawal	Warm Red
National Parks and Monuments	Purple	Federal Agency Protective Wdl.	Warm Red
Indian Lands or Reservation	Orange	AEC Withdrawal	Warm Red
Military Reservation and Military Withdrawal	Red	Public Water Reserve	Warm Red
Wildlife Refuge	Blue Green	O & C Lands Adm. by U. S. F. S.	Green
Bankhead - Jones L.U. Lands	Pink	Radio & Air Facilities	Green
		Miscellaneous	Green
		* State Wildlife, Parks And Outdoor Recreation Areas	Blue

R. 104 W. R. 103 W. R. 102 W. R. 101 W. R. 100 W. R. 99 W. R. 98 W.



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COLOR QUAD LEGEND

N.W. COLORADO COAL E.I.S. COAL LEASES

Leases and Lease Applications

BLM proposed coal leasing areas

Code numbers with a "C" prefix are competitive lease applications.
Code numbers with a "P" prefix are preferred right lease applications.
Lease numbers with a "C" or "D" prefix are federal leases.
Lease numbers with two part numbers (000/00) are state leases.

Code #	Firm (Lease Holder)	Lease #	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117
1	Empire Energy Corp.	C-14737	60	Driftwood Oil Corp.: Peabody Coal (408/13)	384/13																																																							
2	Empire Energy Corp.	D-056298	61	Crazy Creek Coal Co.	323/13																																																							
3	Empire Energy Corp.	C-21981	62	Consolidated Coal Co.	C-245																																																							
4	Empire Energy Corp.	C-0127865	63	George Brennan, Jr.	324/13																																																							
5	Empire Energy Corp.	358/13	64	Charles C. Hughes	401/13																																																							
6	Empire Energy Corp.	366/13	65	George Brennan, Jr.	325/13																																																							
7	Ark Land Co.	345/13	66	George Brennan, Jr.	397/13																																																							
8	K. Parry: Ass'd. Paul S. Coupey (430/13)	365/13	67	George Brennan, Jr.	333/13																																																							
9	Kemmerer Coal Co.	370/13	68	Energy Fuels Corp. (Morgan)	C-9968																																																							
10	John Wanner	285/13	69	Pittsburgh & Midway Coal Mining Co.	265/13																																																							
11	Peabody Coal Co.	307/13	70	Peabody Coal Co.	306/13																																																							
12	Charles C. Hughes	402/13	71	Mapco, Inc.	371/13																																																							
13	Arnold Gilbert	299/13	72	Page T. Jenkins: Ass'd. J. McDonough (379/13)	393/13																																																							
14	James C. Goodwin	C-3440	73	K. Parry: Ass'd. Paul S. Coupey (429/13)	364/13																																																							
15	James C. Goodwin	C-0127926	74	Morgan Coal Co.	235/13																																																							
16	James C. Goodwin	C-0127927	75	Peabody Coal	305/13																																																							
17	James C. Goodwin	C-0127891	76	W.R. Grace	C-22836																																																							
18	Thomas C. Woodward	383/13	77	Superflower Corp.	394/13																																																							
19	Arnold Gilbert	286/13	78	Kemmerer Coal Co.	C-3606																																																							
20	W.R. Grace	D-034365	79	Kemmerer Coal Co.	C-3605																																																							
21	Gulf Oil (Pittsburgh & Midway Coal Mining Co.)	D-033327	80	Kerr-McCee Corp.	396/13																																																							
22	Culf Oil Corp.	D-041478	81	Victor P. Stablo	424/13																																																							
23	Gulf Oil Corp.	C-021501	82	Robert H. Gleason & L.C. Craig	409/13																																																							
24	Culf Oil Corp.	D-053710	83	Robert H. Gleason & L.C. Craig	410/13																																																							
25	Joe Petranovich	D-052546	84	Elton E. Nowell	432/13																																																							
26	Rouff Mining Corp.	C-0127592	85	George Brennan, Jr.	332/13																																																							
27	Rouff Mining Corp.	D-046544	86	Superior Oil Corp.	331/13																																																							
28	Maneotis Sheep Co.	D-051376	87	Consolidation Coal Co.	C-1545																																																							
29	Ruby Construction Co.	D-051698	88	Consolidation Coal Co.	C-1546																																																							
30	Morgan Coal Co.	D-052547	89	Consolidation Coal Co.	C-093713																																																							
31	Franklin Real Estate (Amer. Elec. Power)	C-012894	90	Consolidation Coal Co.	C-093714																																																							
32	Morgan Coal Co.	C-081330	91	Consolidation Coal Co.	C-093715																																																							
33	Morgan Coal Co.	C-0128433	92	Consolidation Coal Co.	C-093716																																																							
34	Energy Fuels Corp.	C-20900	93	Commonwealth Coal Co.	D-044240																																																							
35	Morgan Coal Co.	C-16284	94	American Fuels Corp.	C-076713																																																							
36	Peabody Coal (Seneca I)	C-088199	95	W.R. Grace	C-22837																																																							
37	Peabody Coal (Seneca II)	C-086654	96	W.R. Grace	C-22838																																																							
38	Peabody Coal (Seneca III)	C-0114093	97	W.R. Grace	C-22839																																																							
39	Material Service Corp. (Seneca ID)	C-081251	98	Phillip A. Jensen & K.W. Miller	C-4275																																																							
40	Material Service Corp. (Seneca ID) 279/13	C-081258	99	Ember Mining Co.	C-0126997																																																							
41	United Electric Coal Co.	279/13	100	Ember Mining Co.	C-0126998																																																							
42	Mapco Inc.	392/13	101	Ember Mining Co.	C-0126999																																																							
43	Utah International, Inc.	C-079641	102	Paul E. Riebold	C-028875																																																							
44	Utah International, Inc.	C-07519	103	Reliable Coal Mining Co.	D-047201																																																							
45	Utah International, Inc.	C-07518	104	L.C. Craig	C-0125366																																																							
46	Utah International, Inc.	C-3506	105	Moon Lake Electric	C-8424																																																							
47	Utah International, Inc.	C-0126480	106	Moon Lake Electric	C-8425																																																							
48	Utah International, Inc.	C-813	107	Moon Lake Electric	C-0126669																																																							
49	Empire Energy Corp.	C-14738	108	Gordon Staley Coal	C-023703																																																							
50	Utah International, Inc.	257/13	109	Moon Lake Electric	C-15846																																																							
51	Utah International, Inc.	206/13	110	Commonwealth Coal Co.	C-22546																																																							
52	Ferne M. James	C-064416	111	Coal Fuels Corp.	C-22544																																																							
53	Pittsburgh & Midway Coal Mining Co.	266/13	112	Energy Fuels Corp.	C-22628																																																							
54	Peabody Coal Co.	C-0125957	113	Halandras Brothers	C-22677																																																							
55	Empire Energy	C-13134	114	Energy Fuels	C-22676																																																							
56	Cossard, Inc.	C-16618	115	Energy Fuels	C-14739																																																							
57	Utah International, Inc.	C-0123475	116	Empire Energy Corp.	C-22786																																																							
58	Utah International, Inc.	C-0123476	117	Peabody Coal Co.																																																								
59	Peabody Coal Co.	C-19885																																																										

QUAD INDEX MAP
COLORADO

NW-1	NW-2	NW-3	NW-4	NW-5	NW-6	NE-1	NE-2	NE-3	NE-4	NE-5
NW-7	NW-8	NW-9	NW-10	NW-11	NW-12	NE-6	NE-7	NE-8	NE-9	NE-10
NW-13	NW-14	NW-15	NW-16	NW-17	NW-18	NE-11	NE-12	NE-13	NE-14	NE-15
NW-19	NW-20	NW-21	NW-22	NW-23	NW-24	NE-16	NE-17	NE-18	NE-19	NE-20
NW-25	NW-26	NW-27	NW-28	NW-29	NW-30	NE-21	NE-22	NE-23	NE-24	NE-25
SW-1	SW-2	SW-3	SW-4	SW-5	SW-6	SE-1	SE-2	SE-3	SE-4	SE-5
SW-7	SW-8	SW-9	SW-10	SW-11	SW-12	SE-6	SE-7	SE-8	SE-9	SE-10
SW-13	SW-14	SW-15	SW-16	SW-17	SW-18	SE-11	SE-12	SE-13	SE-14	SE-15
SW-19	SW-20	SW-21	SW-22	SW-23	SW-24	SE-16	SE-17	SE-18	SE-19	SE-20
SW-25	SW-26	SW-27	SW-28	SW-29	SW-30	SE-21	SE-22	SE-23	SE-24	SE-25

MAP SYMBOLS

Feature	Symbol	Feature	Symbol	Feature	Symbol	Feature	Symbol	Feature	Symbol
District Bdy	—————	Road All Weather	===== ===== =====	Principal Access	===== ===== =====	Buildings	•	Towns and Cities	■
Nat'l or State	—————	Road Seasonal Use	=====			Buildings (Abandoned)	□	River or Large Stream	~~~~~
		Road "Jeep" Type "Primitive"	-----	Road Interchange	⊕	BLM Office	■	Stream	~~~~~
Continental Divide	—————	Trail	-----	Rest Area	⊕	School	■	Large Dam	⌒
County	—————	Railroad Double Track	===== ===== =====			Church	■	Reservoir or Retention Dam	⌒
Land Grant	— • — • —	Railroad Single Track	===== =====			Radio Installation	■	Lake or Pond	⊖
Miscellaneous (Res., etc.)	—————	Glacier	⊖	Levee or Dike	===== =====	Fire Lookout (Primary)	⊕	Intermittent Lake or Pond	⊖
Park (State, County or Local)	—————	Road Bridge	⊕	Corral	⊕	Fire Lookout (Secondary)	⊕	Dry Lake or Pond	⊖
Township and Range	Surveyed Protracted	Railroad Bridge	⊕	Recreation Site	⊕	Fire Tool Cache	■	Marsh	~~~~~
Section	Surveyed Protracted	Foot Bridge	⊕	Tanks (label as to type)	⊕	Shelter	■	Spring	⊕
Sec., Status Subdivision	—————	Ferry	⊕	Oil or Gas Wells	⊕	Cliff Dwelling	■	Improved Spring	⊕
Section Identification	6	Road Ford	⊕	Mine or Quarry	⊕	Small Ruins	□	Well	⊕
State Plane Coordinates And Zone	1,500,000E	Trail Ford	⊕	US Mineral or Location Monument	⊕	Large Ruins	□	Artesian Well	⊕
Boundary Monument	⊕	Road Tunnel	⊕	Located Object (Labeled)	⊕	Cemetery	⊕	Windmill	⊕
Route Marker Interstate	⊕	Railroad Tunnel	⊕	Triangulation Station	⊕	Sawmill	⊕	Aqueduct Tunnel	⊕
Route Marker U.S.	⊕			Bluffs or Cliffs	⊕	Airfield	⊕	Ditch or Canal	⊕
Route Marker State	⊕	Prominent Peak	⊕	Prominent Ridge	⊕	Gaging Station	⊕	Aqueduct	⊕

LAND STATUS LEGEND

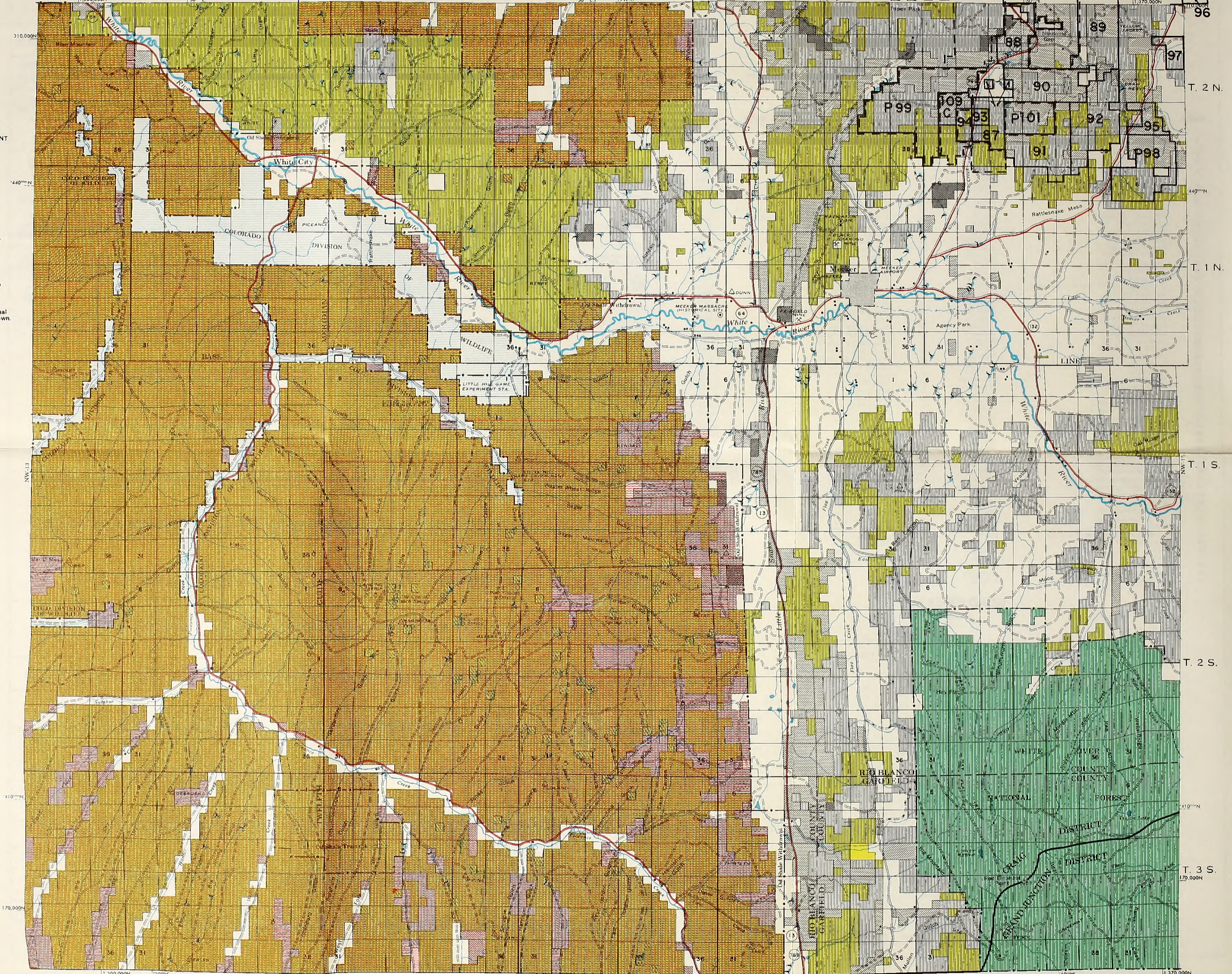
Description	Printing Color	Description	Printing Color
Public Domain (Including National Resource Lands)	Yellow	Patented	Blank
D & C Lands	Lt. Green	State Lands *	Dk. Blue
CBWR Coos Bay Wagon Road	Violet	Reclamation and Water Power Projects Withdrawal	Warm Red
National Forest	Green	Powersite Withdrawal	Warm Red
National Parks and Monuments	Purple	Federal Agency Protective Wdl.	Warm Red
Indian Lands or Reservation	Orange	AEC Withdrawal	Warm Red
Military Reservation and Military Withdrawal	Red	Public Water Reserve	Warm Red
Wildlife Refuge	Blue Green	D & C Lands Adm. by U. S. F. S.	Green
Bankhead - Jones L.U. Lands	Pink	Radio & Air Facilities	Green
		Miscellaneous	Green
		* State Wildlife, Parks And Outdoor Recreation Areas	Blue

R. 98 W. R. 97 W. R. 96 W. R. 95 W. UTM ZONE 12 | UTM ZONE 13 R. 94 W. R. 93 W. R. 92 W.

MINERALS OWNED BY THE FEDERAL GOVERNMENT

Symbol	Mineral Rights
[Diagonal lines /]	All Minerals
[Diagonal lines \]	Coal Only
[Cross-hatch]	Oil and Gas Only
[Solid black]	Oil, Gas, and Coal Only
[Horizontal lines]	Other
[Empty box]	No symbol indicates no Federal minerals

Note: Acquired and L.U. may include term or fractional interest for mineral shown.



SCALE 1:126,720
1/2 INCH = 1 MILE SERIES

COAL LEASE OVERPRINT SEPT 1975

NW-14

COLOR QUAD LEGEND

N.W. COLORADO COAL E.I.S. COAL LEASES

Leases and Lease Applications

BLM proposed coal leasing areas

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 Lease numbers with two part numbers (000/00) are state leases.

Code #	Firm (Lease Holder)	Lease #	50	51	52	53	54	55	56	57	58	59
1	Empire Energy Corp.	C-14737	61	Driftwood Oil Corp.: Peabody Coal (408/13)	384/13							
2	Empire Energy Corp.	D-056298	62	Grassy Creek Coal Co.	323/13							
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15	James C. Goodwin	C-0127926	75	Peabody Coal Co.	235/13							
16	James C. Goodwin	C-0127927	76	W.R. Grace	305/13							
17	James C. Goodwin	C-0127891	77	Sunflower Corp.	C-22836							
18	Thomas C. Woodward	383/13	78	Kemmerer Coal Co.	C-3606							
19	Arnold Gilbert	286/13	79	Kemmerer Coal Co.	C-3605							
20	W.R. Grace	D-034365	80	Kerr-McGee Corp.	396/13							
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22	Gulf Oil Corp.	D-041478	82	Robert H. Gleason & L.C. Craig	409/13							
23	Gulf Oil Corp.	C-021501	83	Robert H. Gleason & L.C. Craig	410/13							
24	Gulf Oil Corp.	D-053710	84	Erlon E. Nowell	432/13							
25	Joe Petrenovich	D-052546	85	George Brennan, Jr.	332/13							
26	Routt Mining Corp.	C-0127592	86	Superior Oil Corp.	331/13							
27	Routt Mining Corp.	D-046544	87	Consolidation Coal Co.	C-1545							
28	Maneotis Sheep Co.	D-051376	88	Consolidation Coal Co.	C-1546							
29	Ruby Construction Co.	D-051698	89	Consolidation Coal Co.	C-093713							
30	Morgan Coal Co.	D-052547	90	Consolidation Coal Co.	C-093714							
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34	Energy Fuels Corp.	C-20900	94	American Fuels Corp.	C-076713							
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38	Peabody Coal (Seneca III)	C-0114093	98	Phillip A. Jensen & K.W. Miller	C-4275							
39	Material Service Corp. (Seneca I)	C-081251	99	Ember Mining Co.	C-0126997							
40	Material Service Corp. (Seneca II) 279/13	C-081258	100	Ember Mining Co.	C-0126998							
41	United Electric Coal Co.	279/13	101	Ember Mining Co.	C-0126999							
42	Mapco Inc.	392/13	102	Paul E. Ribbold	C-028875							
43	Utah International, Inc.	C-079541	103	Reliable Coal Mining Co.	D-047201							
44	Utah International, Inc.	C-07519	104	L.C. Craig	C-0123366							
45	Utah International, Inc.	C-07518	105	Moon Lake Electric	C-8424							
46	Utah International, Inc.	C-3506	106	Moon Lake Electric	C-8425							
47	Utah International, Inc.	C-0126480	107	Cordon Staley Coal	C-0126669							
48	Utah International, Inc.	C-813	108	Moon Lake Electric	C-023703							
49	Empire Energy Corp.	C-14738	109	Commonwealth Coal Co.	C-15846							
50	Utah International, Inc.	257/13	110	Coal Fuels Corp.	C-22546							
51	Utah International, Inc.	205/13	111	Moon Lake Electric	C-22654							
52	Ferne M. James	C-064416	112	Energy Fuels Corp.	C-22644							
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QUAD INDEX MAP COLORADO

NW-1	NW-2	NW-3	NW-4	NW-5	NW-6	NE-1	NE-2	NE-3	NE-4	NE-5
NW-7	NW-8	NW-9	NW-10	NW-11	NW-12	NE-6	NE-7	NE-8	NE-9	NE-10
NW-13	NW-14	NW-15	NW-16	NW-17	NW-18	NE-11	NE-12	NE-13	NE-14	NE-15
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NW-25	NW-26	NW-27	NW-28	NW-29	NW-30	NE-21	NE-22	NE-23	NE-24	NE-25
SW-1	SW-2	SW-3	SW-4	SW-5	SW-6	SE-1	SE-2	SE-3	SE-4	SE-5
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SW-13	SW-14	SW-15	SW-16	SW-17	SW-18	SE-11	SE-12	SE-13	SE-14	SE-15
SW-19	SW-20	SW-21	SW-22	SW-23	SW-24	SE-16	SE-17	SE-18	SE-19	SE-20
SW-25	SW-26	SW-27	SW-28	SW-29	SW-30	SE-21	SE-22	SE-23	SE-24	SE-25

MAP SYMBOLS

Feature	Symbol	Feature	Symbol	Feature	Symbol	Feature	Symbol	Feature	Symbol
District Bdy		Road All Weather		Principal Access		Buildings		Towns and Cities	
Nat'l or State		Road Seasonal Use		BLM Office		Buildings (Abandoned)		River or Large Stream	
Continental Divide		Road "Jeep" Type "Primitive"		Road Interchange		School		Stream	
County		Trail		Rest Area		Church		Large Dam	
Land Grant		Railroad Double Track		Levee or Dike		Radio Installation		Reservoir or Retention Dam	
Miscellaneous (Res., etc.)		Railroad Single Track		Fire Lookout (Primary)		Fire Lookout (Secondary)		Intermittent Lake or Pond	
Park (State, County or Local)		Glacier		Corral		Fire Lookout (Tertiary)		Dry Lake or Pond	
Township and Range		Road Bridge		Recreation Site		Shelter		Marsh	
Section		Foot Bridge		Tanks (label as to type)		Cliff Dwelling		Spring	
Sec., Status Subdivision		Ferry		Dil or Gas Wells		Small Ruins		Improved Spring	
Section Identification		Road Ford		Mine or Quarry		Large Ruins		Well	
State Plane Coordinates And Zone		Trail Ford		US Mineral or Location Monument		Cemetery		Artesian Well	
Boundary Monument		Road Tunnel		Labeled Object (Labeled)		Sawmill		Windmill	
Route Marker Interstate		Railroad Tunnel		Triangulation Station		Airfield		Aqueduct Tunnel	
Route Marker U.S.		Prominent Peak		Bluffs or Cliffs		Gaging Station		Ditch or Canal	
Route Marker State		Prominent Ridge						Aqueduct	

LAND STATUS LEGEND

Description	Printing Color	Description	Printing Color
Public Domain (Including National Resource Lands)	Yellow	Patented	Blank
D & C Lands	Lt. Green	State Lands *	Dk. Blue
CBWR Coas Boy Wagon Road	Violet	Reclamation and Water Power Projects Withdrawal	Warm Red
National Forest	Green	Powersite Withdrawal	Warm Red
National Parks and Monuments	Purple	Federal Agency Protective Wdl.	Warm Red
Indian Lands or Reservation	Orange	AEC Withdrawal	Warm Red
Military Reservation and Military Withdrawal	Red	Public Water Reserve	Warm Red
Wildlife Refuge	Blue Green	D & C Lands Adm. by U.S. F.S.	Green
Bankhead - Jones L.U. Lands	Pink	Radio & Air Facilities	Green
		Miscellaneous	Green
		* State Wildlife, Parks And Outdoor Recreation Areas	Blue

M O F F A T C O R O U T T C O

T. 2. T.

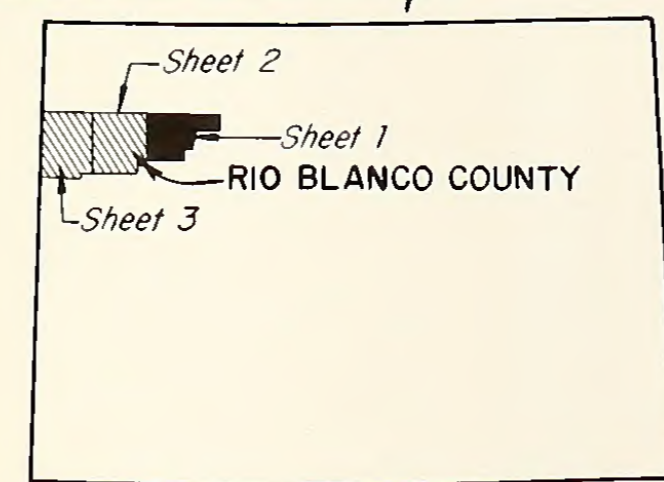
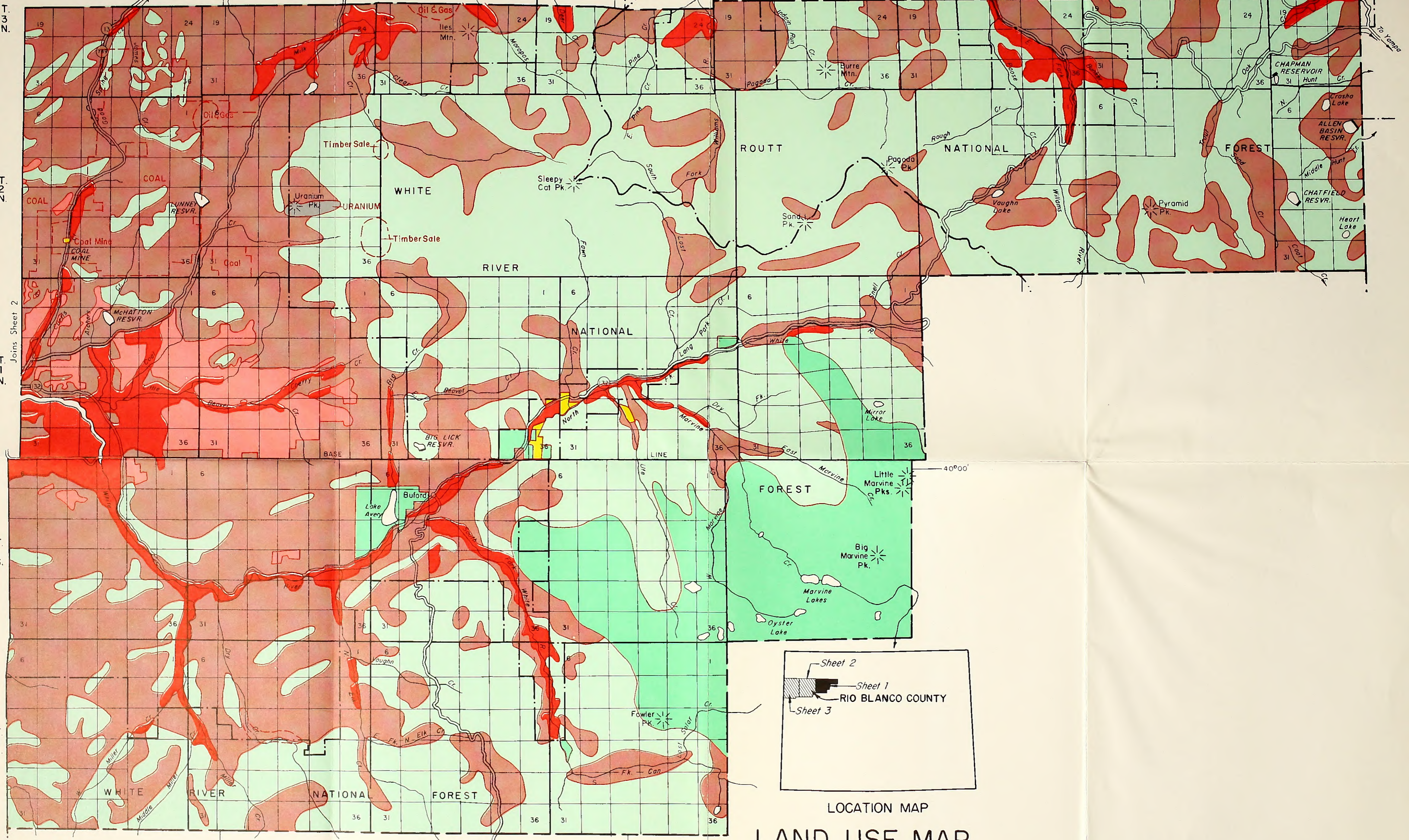
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T. 1. N.

T. 1. S.

T. 2. S.

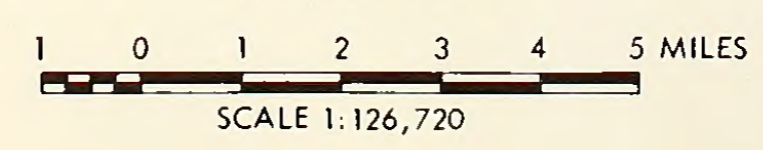
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LOCATION MAP
LAND USE MAP
 RIO BLANCO COUNTY
 COLORADO

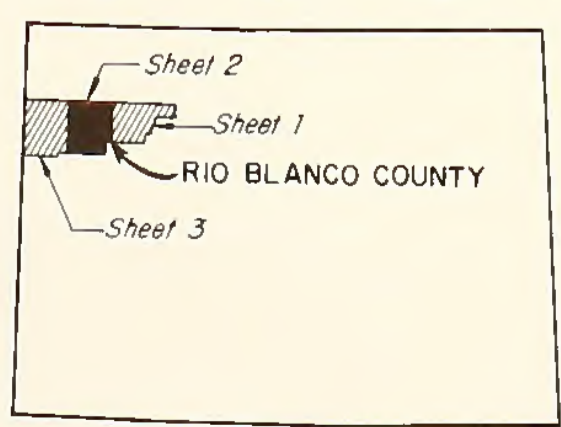
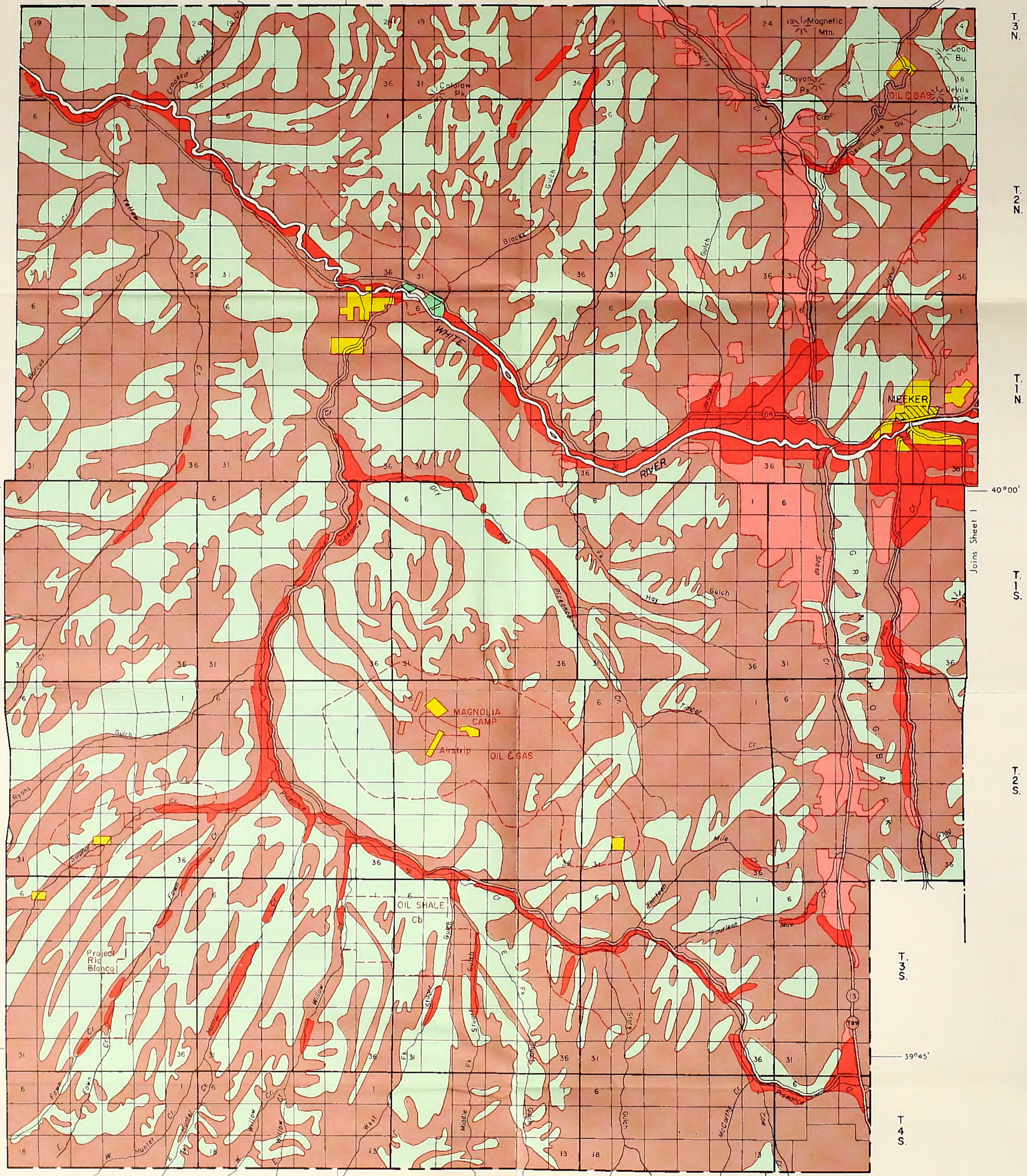
SEE SHEET ONE OF MOFFAT COUNTY FOR LEGEND

AUGUST 1975



ADAPTED FROM A MAP BY THE U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE





LOCATION MAP

ADAPTED FROM A MAP BY THE U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

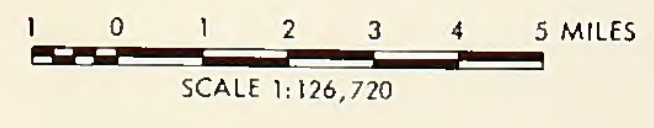


LAND USE MAP

RIO BLANCO COUNTY

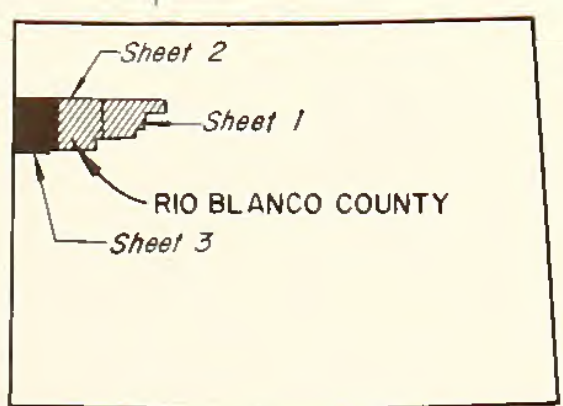
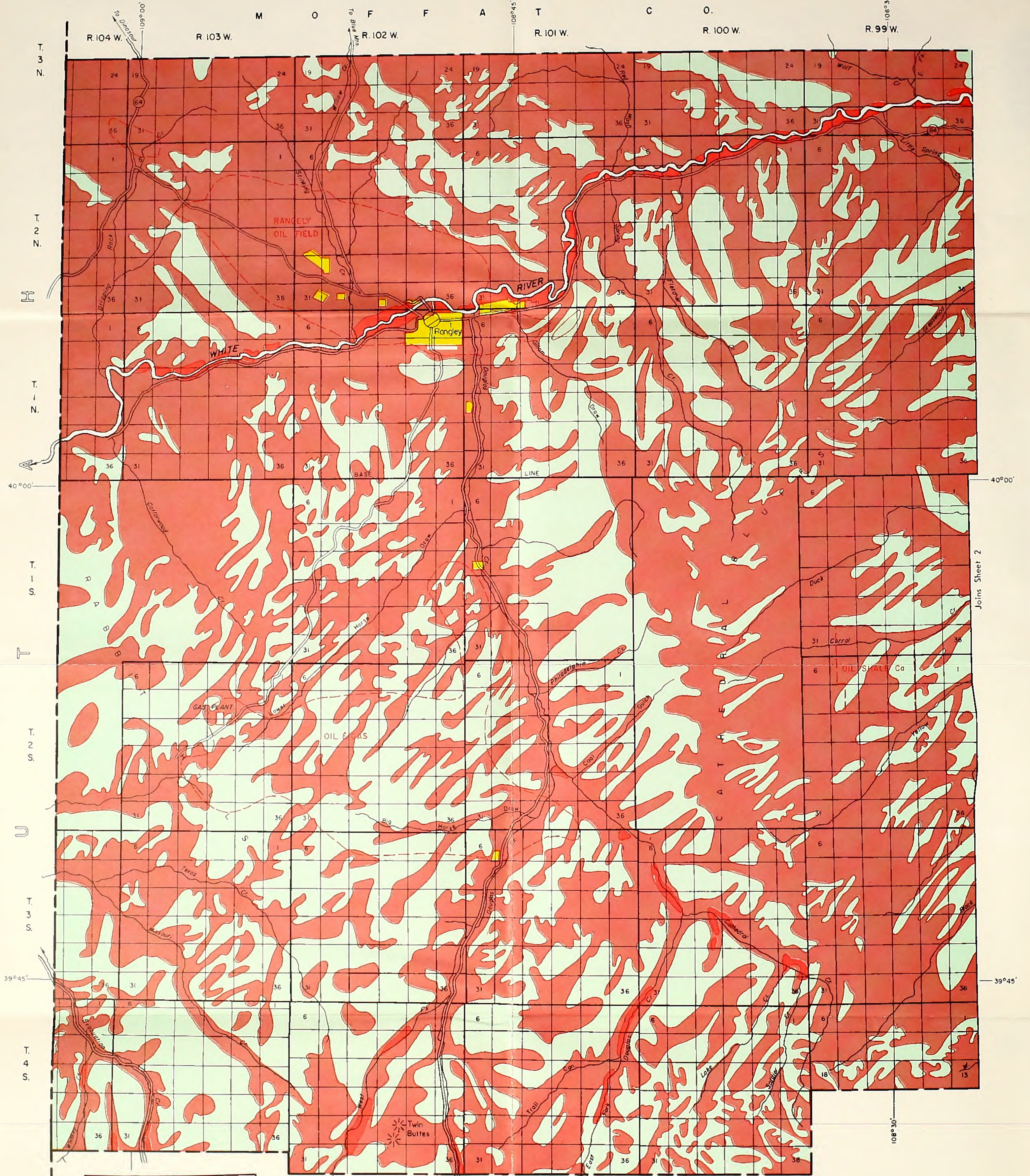
COLORADO

AUGUST 1975



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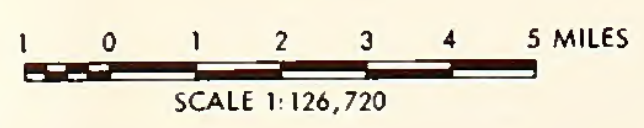
M7-O-22527-52
Sheet 2 of 3



G A R F I E L D C O.

LAND USE MAP
RIO BLANCO COUNTY
COLORADO

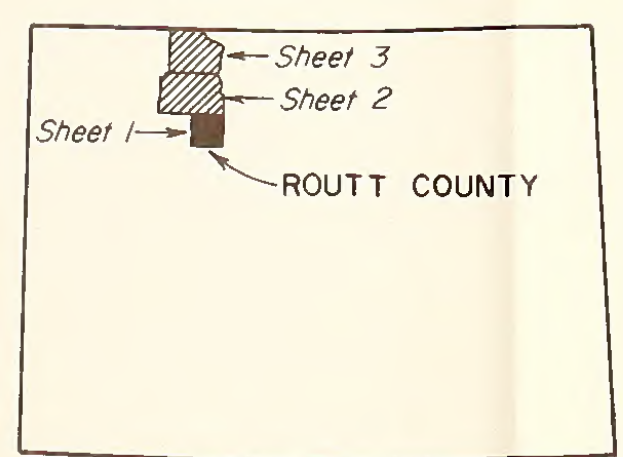
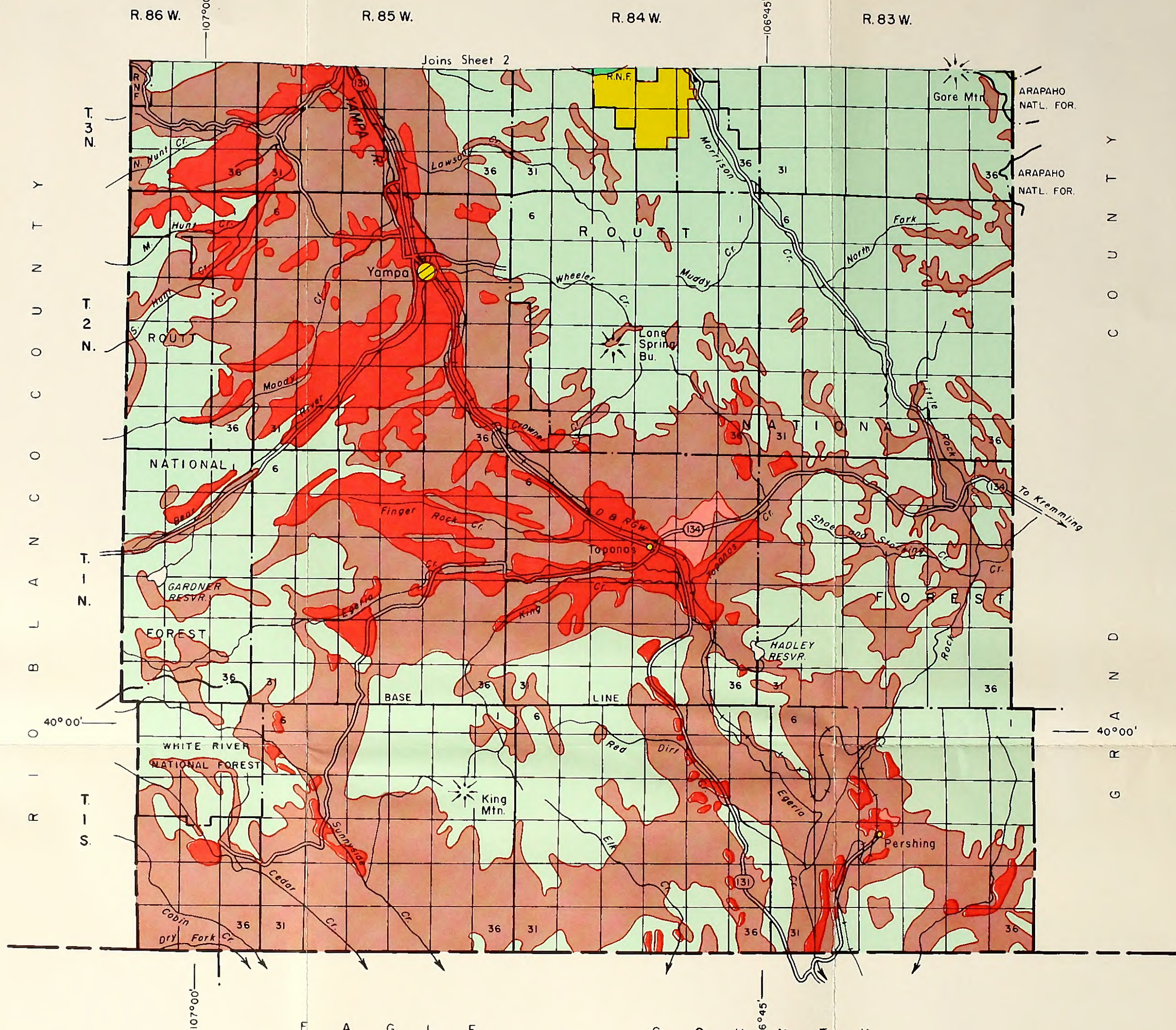
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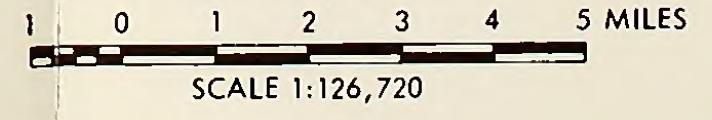
M7-O-22527-52
 Sheet 3 of 3

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 U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE



LAND USE MAP
ROUTT COUNTY
COLORADO

AUGUST 1975



SEE SHEET ONE OF MOFFAT COUNTY FOR LEGEND

ADAPTED FROM A MAP BY LOCATION MAP
THE DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

R. 89 W.

R. 88 W.

R. 87 W.

R. 86 W.

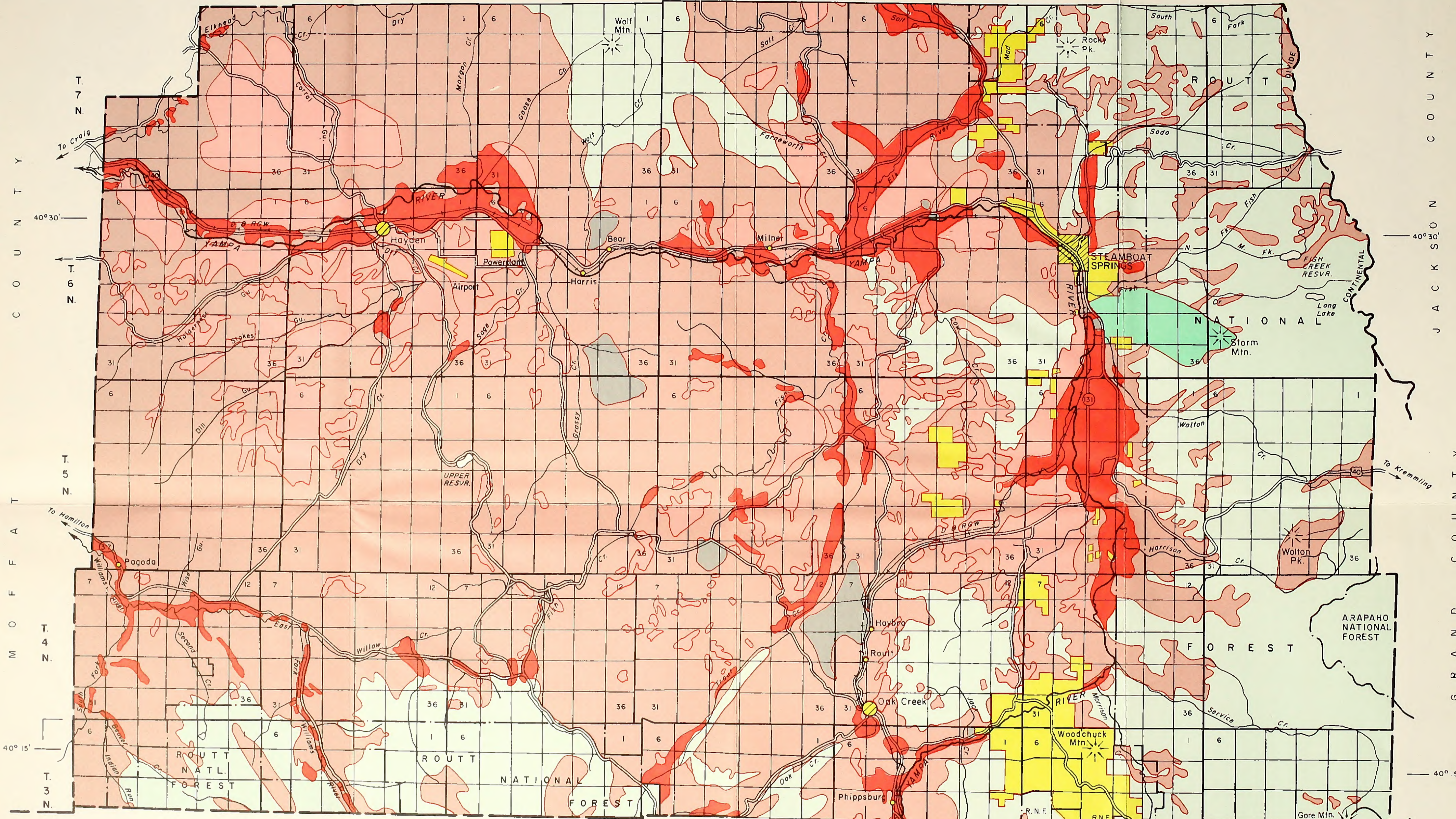
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R. 84 W.

R. 83 W.

Joins Sheet 3

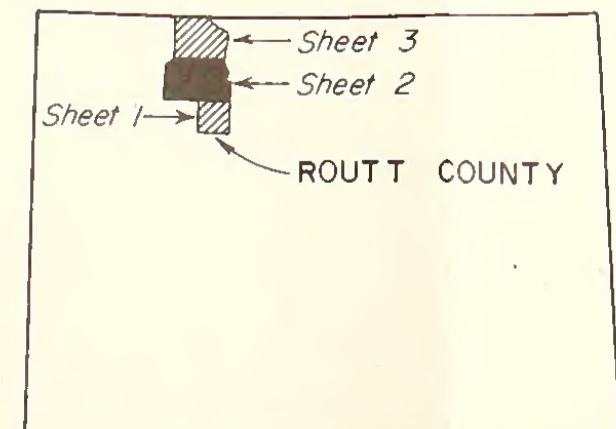
Joins Sheet 1



T. 7 N.
T. 6 N.
T. 5 N.
T. 4 N.
T. 3 N.

JACKSON COUNTY
GRAND COUNTY

R I O B L A N C O C O U N T Y



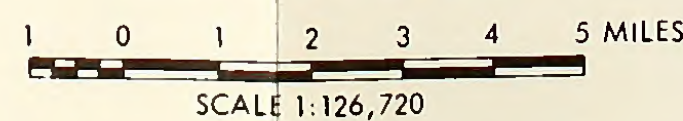
LOCATION MAP

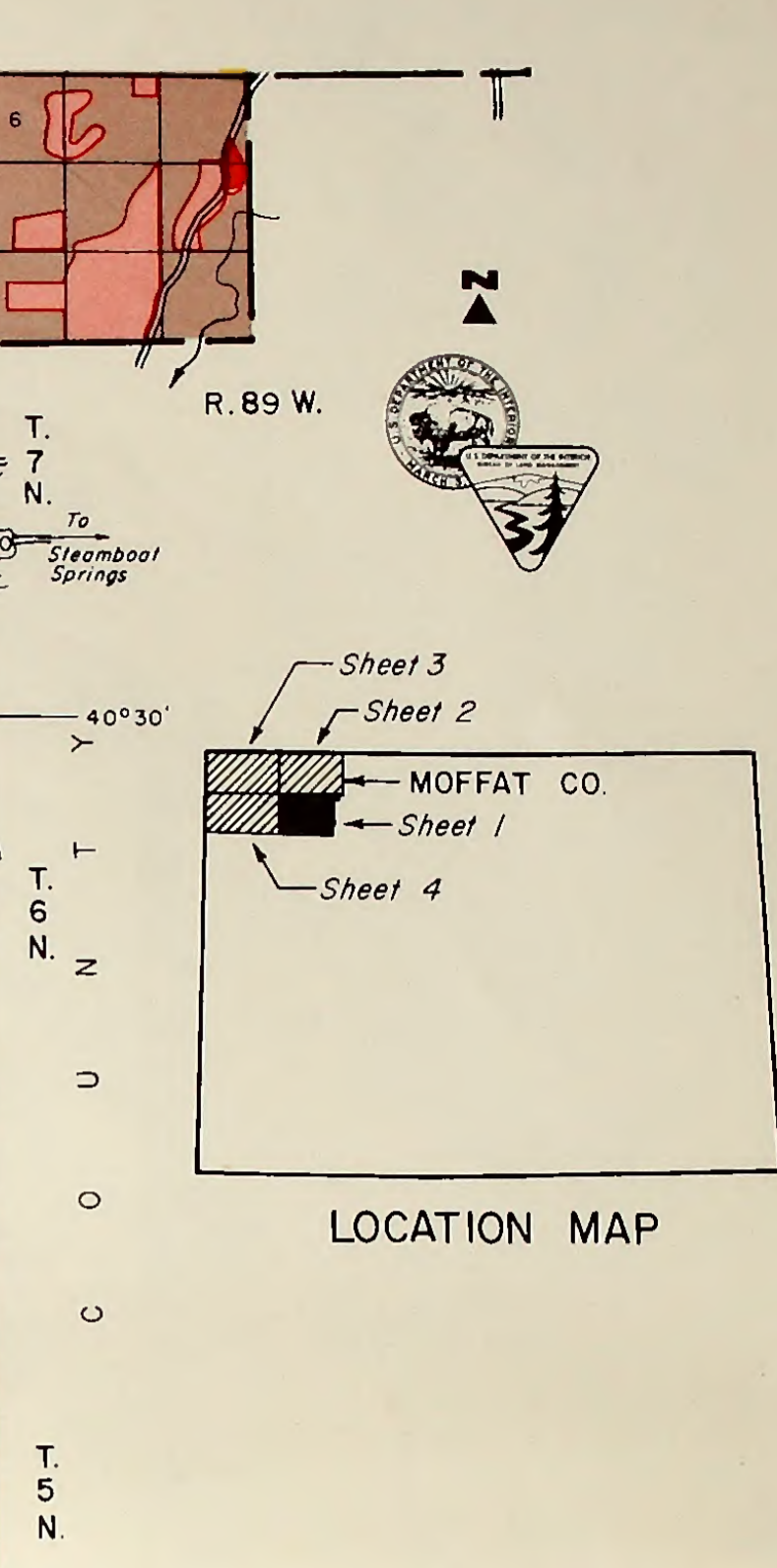
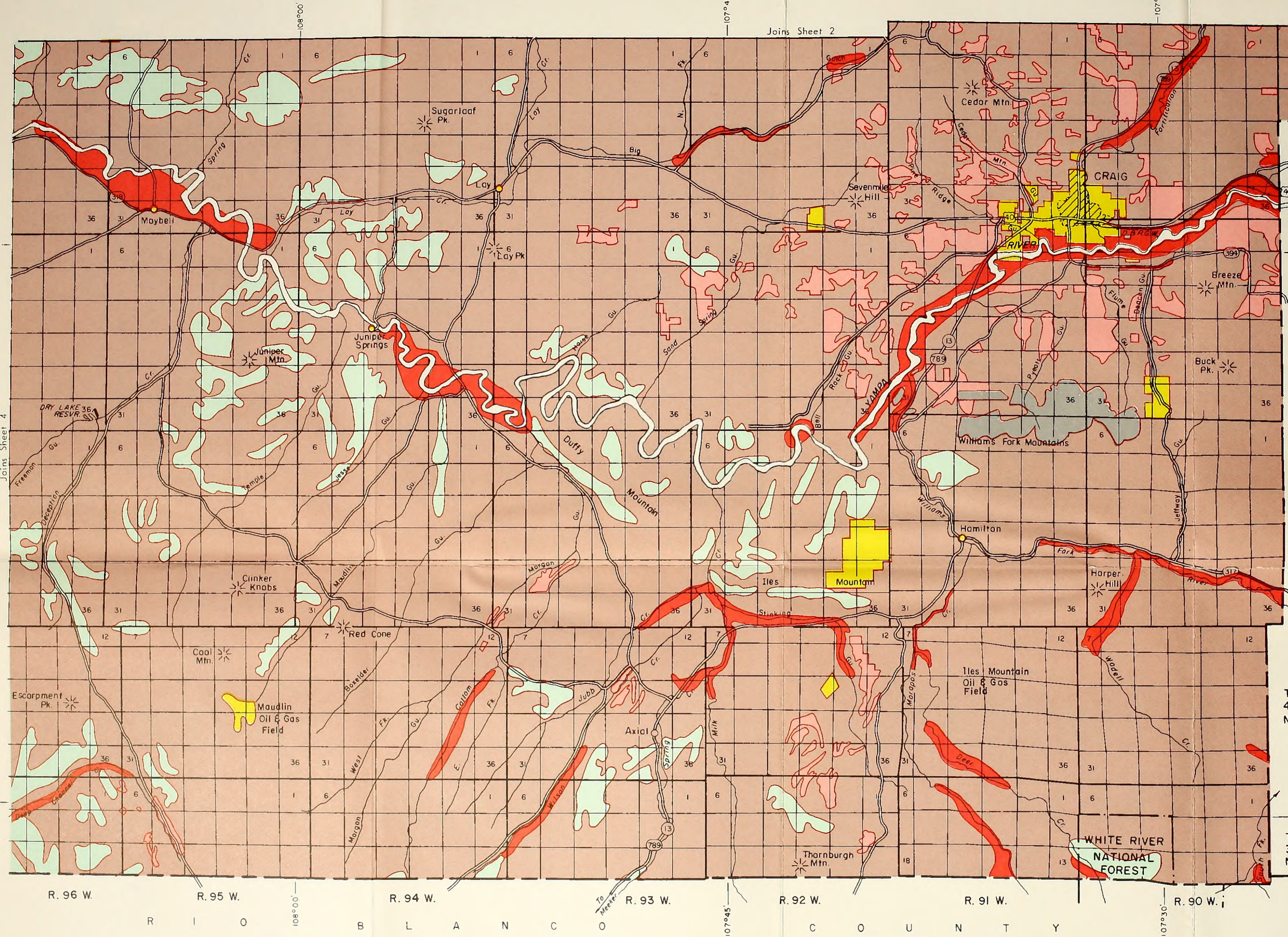
ADAPTED FROM A MAP BY THE DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE



LAND USE MAP
ROUTT COUNTY
COLORADO

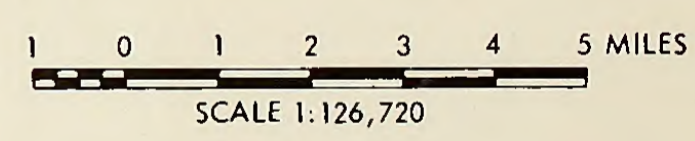
AUGUST 1975





LAND USE MAP
MOFFAT COUNTY
 COLORADO

AUGUST 1975

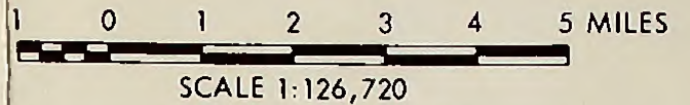


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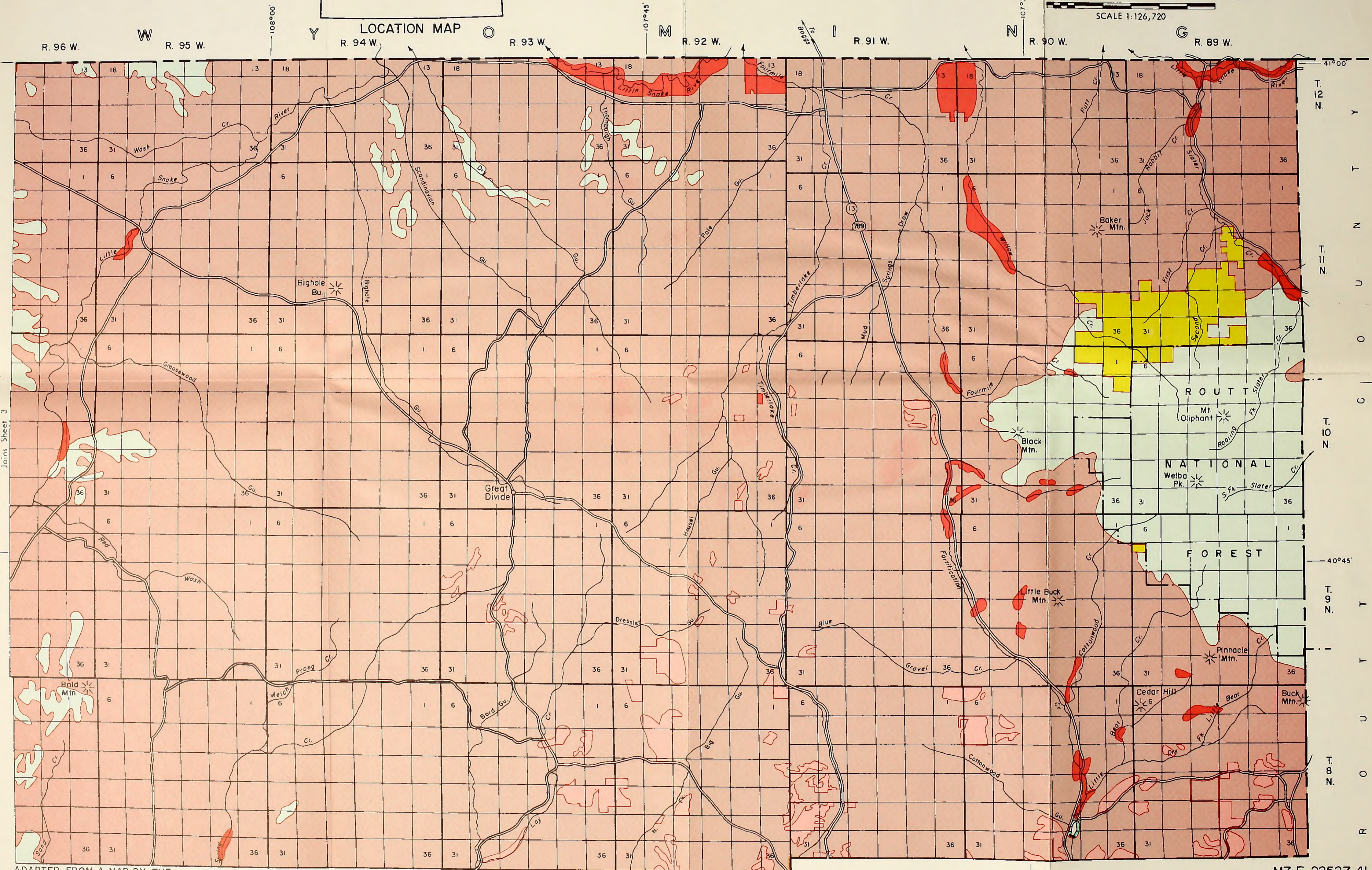
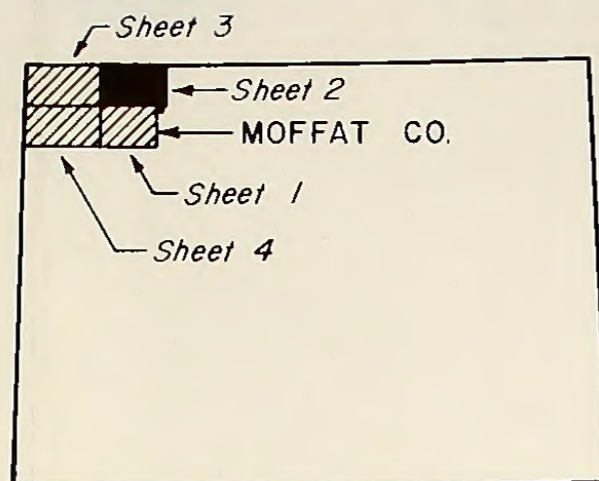
R I O B L A N C O C O U N T Y

LAND USE MAP MOFFAT COUNTY COLORADO

AUGUST 1975



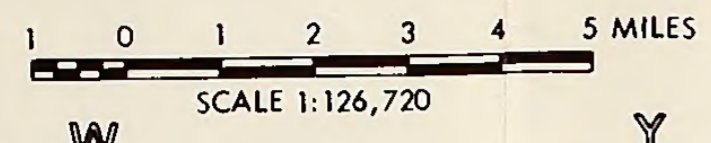
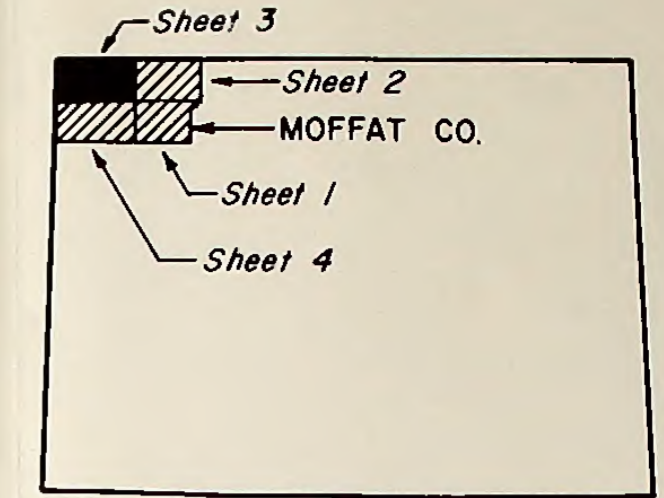
SEE SHEET ONE FOR LEGEND



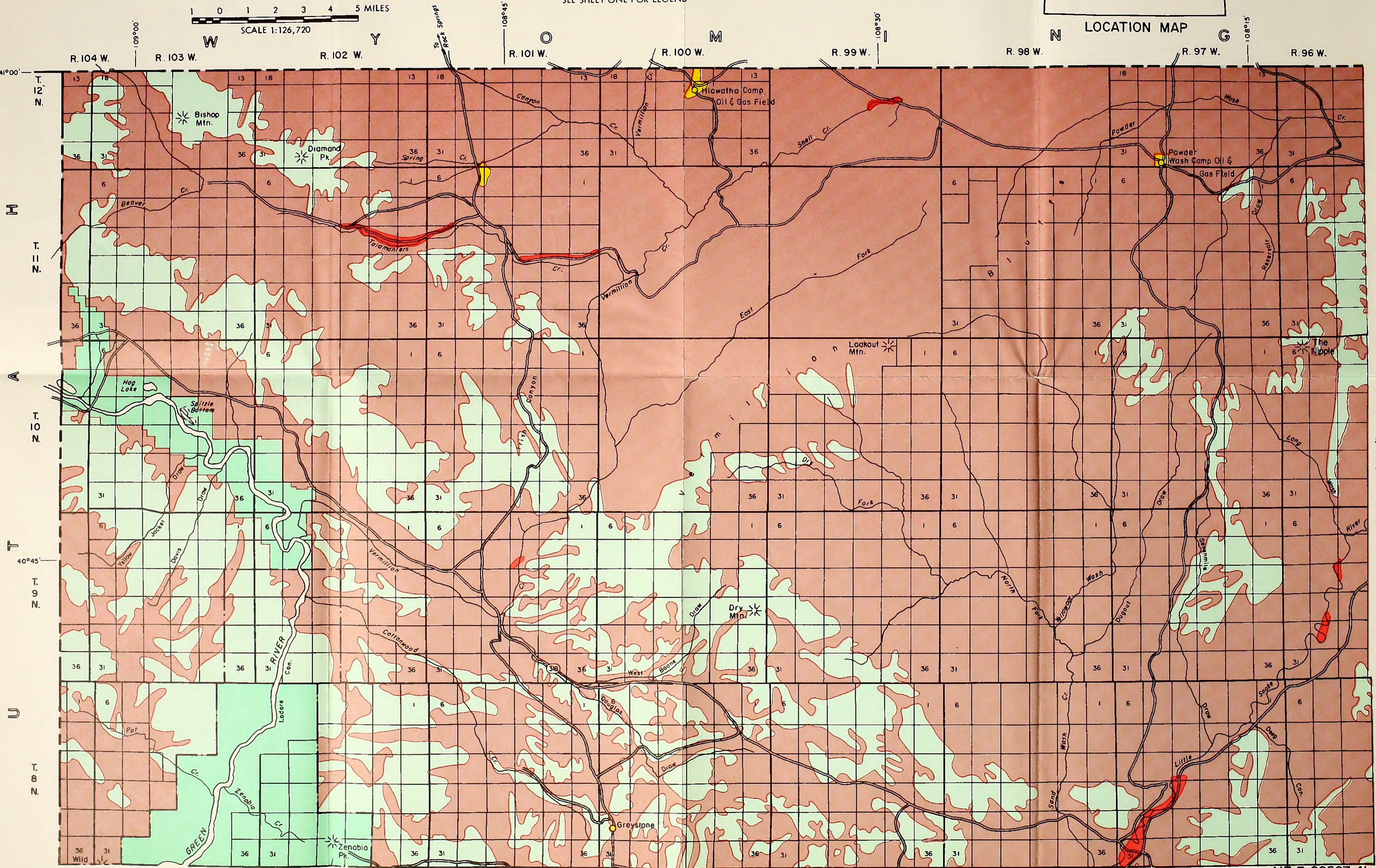
LAND USE MAP MOFFAT COUNTY

COLORADO

AUGUST 1975



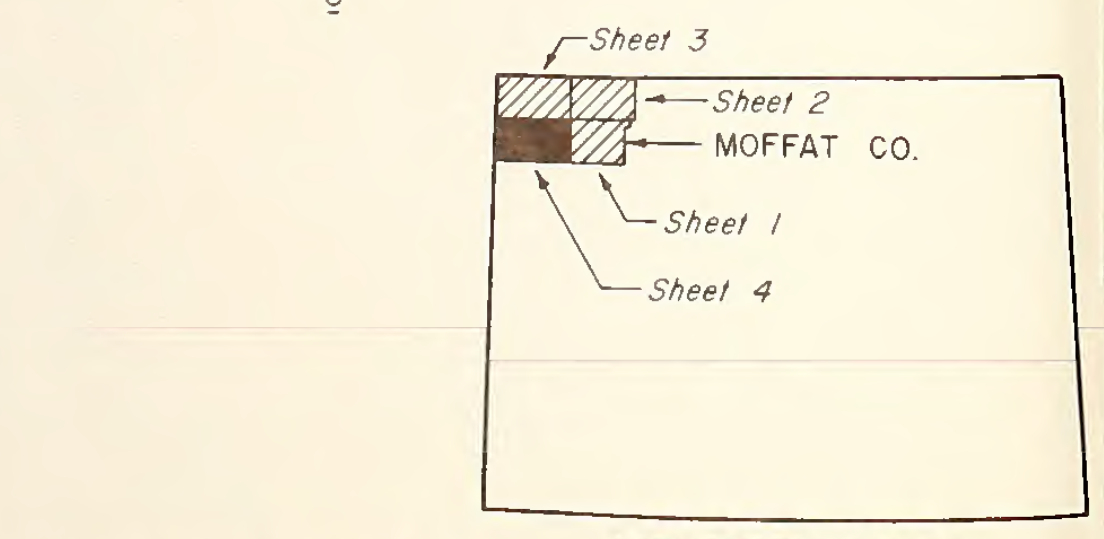
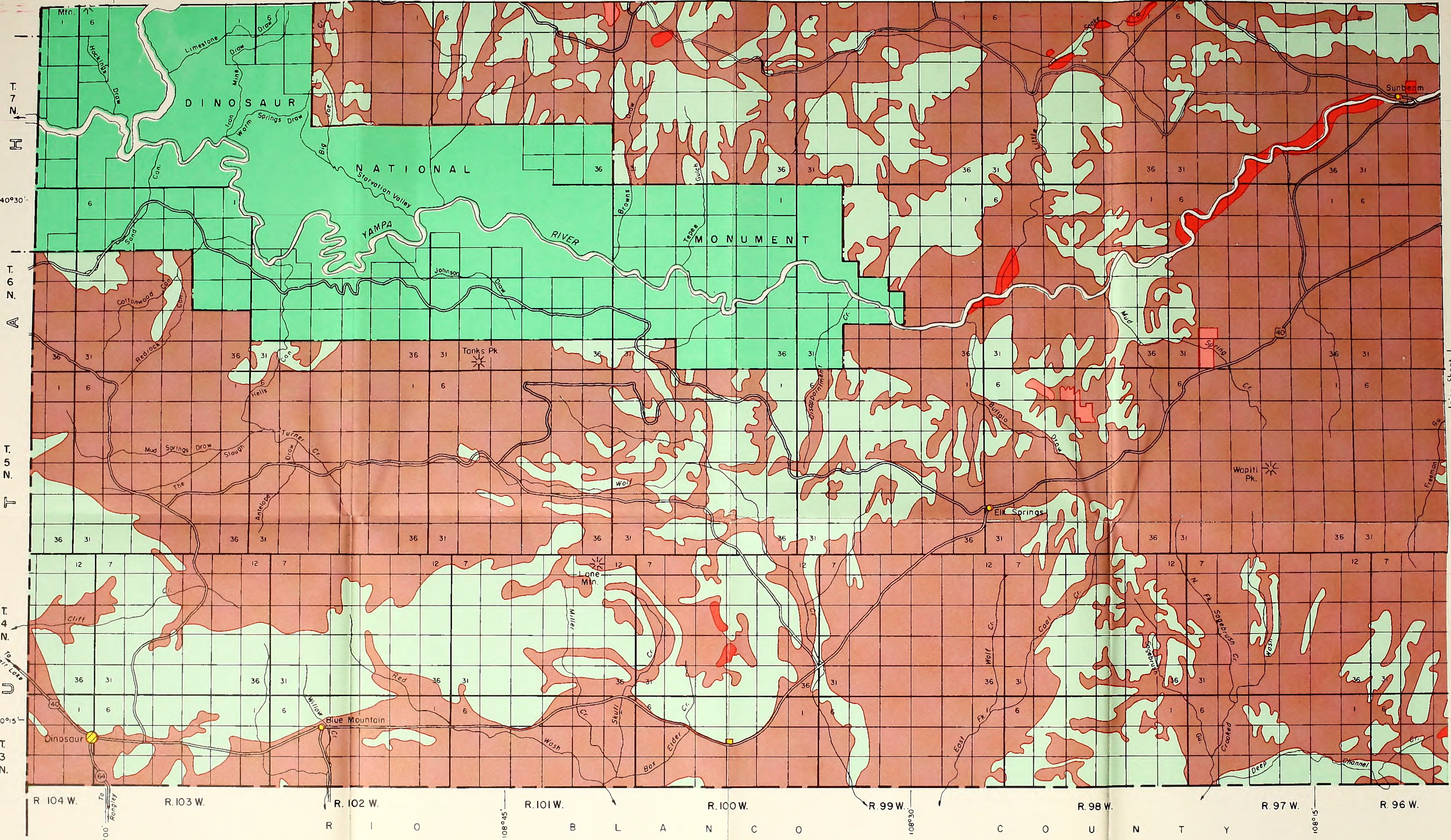
SEE SHEET ONE FOR LEGEND



ADAPTED FROM A MAP BY THE
U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

Joins Sheet 4

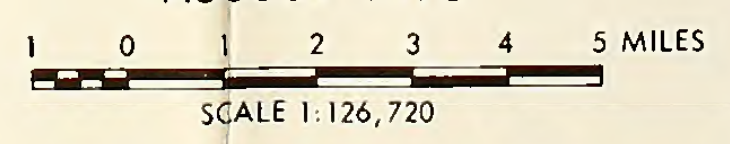
M7-E-22527-41
Sheet 3 of 4







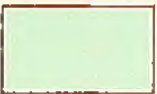



SEE SHEET ONE FOR LEGEND

LAND USE MAP
MOFFAT COUNTY
COLORADO

AUGUST 1975



Land Use Map Legend

-  Irrigated Cropland, Pastureland, and Hayland
-  Non-Irrigated Cropland
-  Rangeland and/or Non-Irrigated Pastureland
-  Urban Areas - Includes Industrial, Commercial, Residential, Transportation, Airports and Subdivisions (including planned developments)
-  Woodland
-  Recreation Land
-  Minerals Development Area
-  Water Areas

R. 89 W.

R. 88 W.

R. 87 W.

R. 86 W.

R. 85 W.

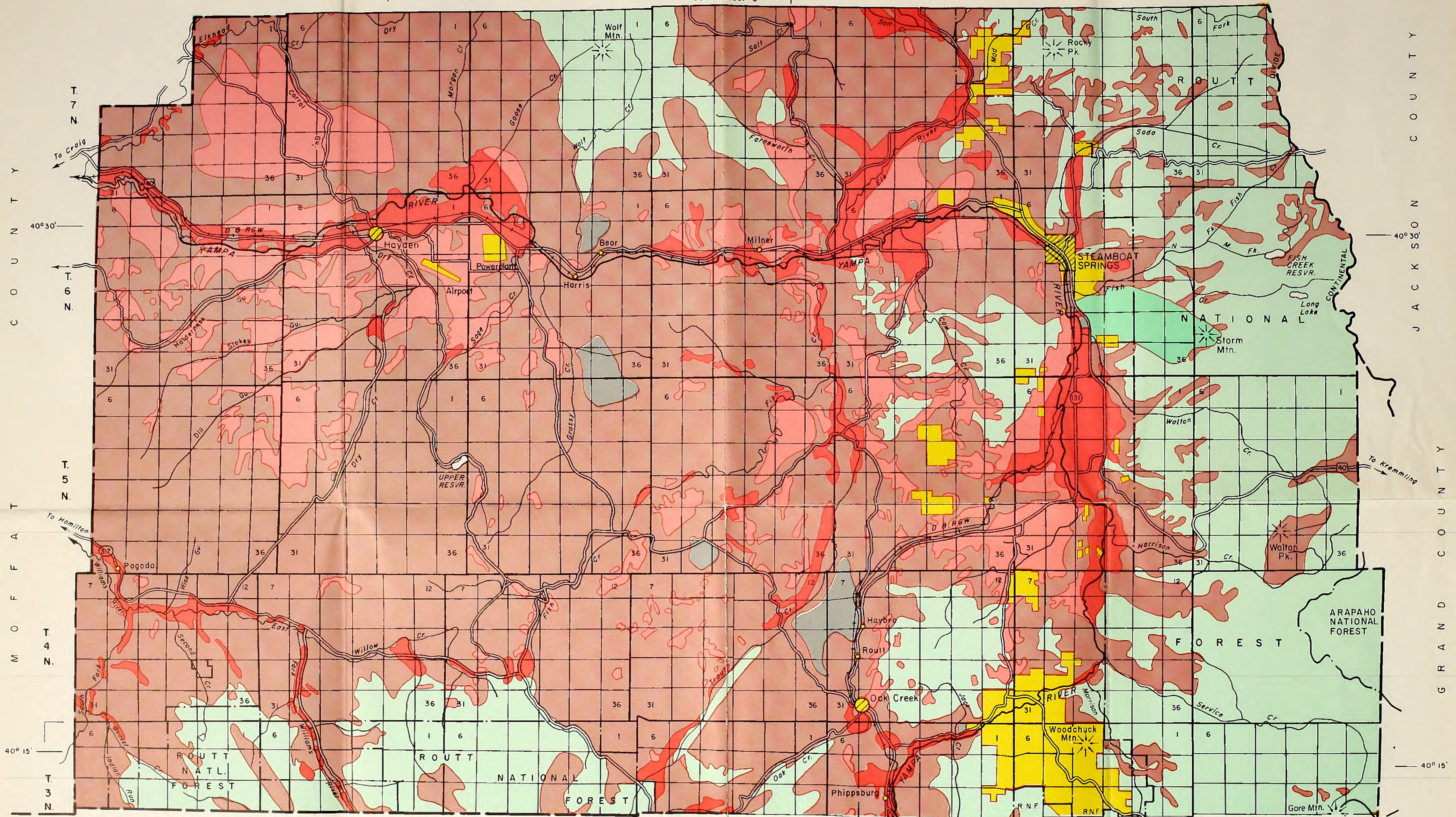
R. 84 W.

R. 83 W.

Joins Sheet 3

107°00'

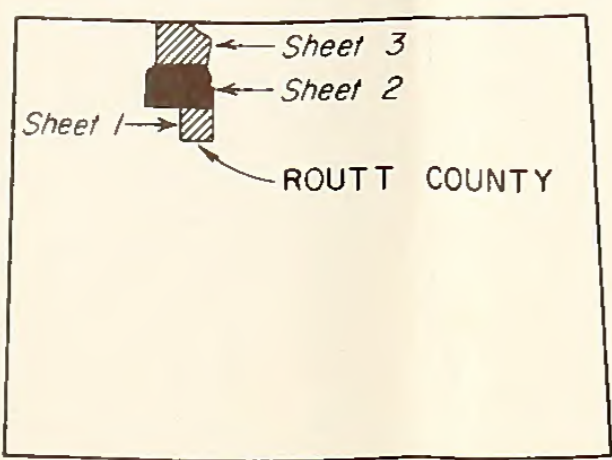
106°45'



T. 7 N.
T. 6 N.
T. 5 N.
T. 4 N.
T. 3 N.

JACKSON COUNTY
GRAND COUNTY

R I O B L A N C O C O U N T Y



LOCATION MAP

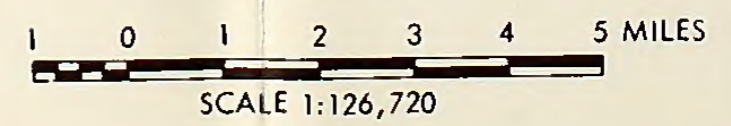
ADAPTED FROM A MAP BY THE DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

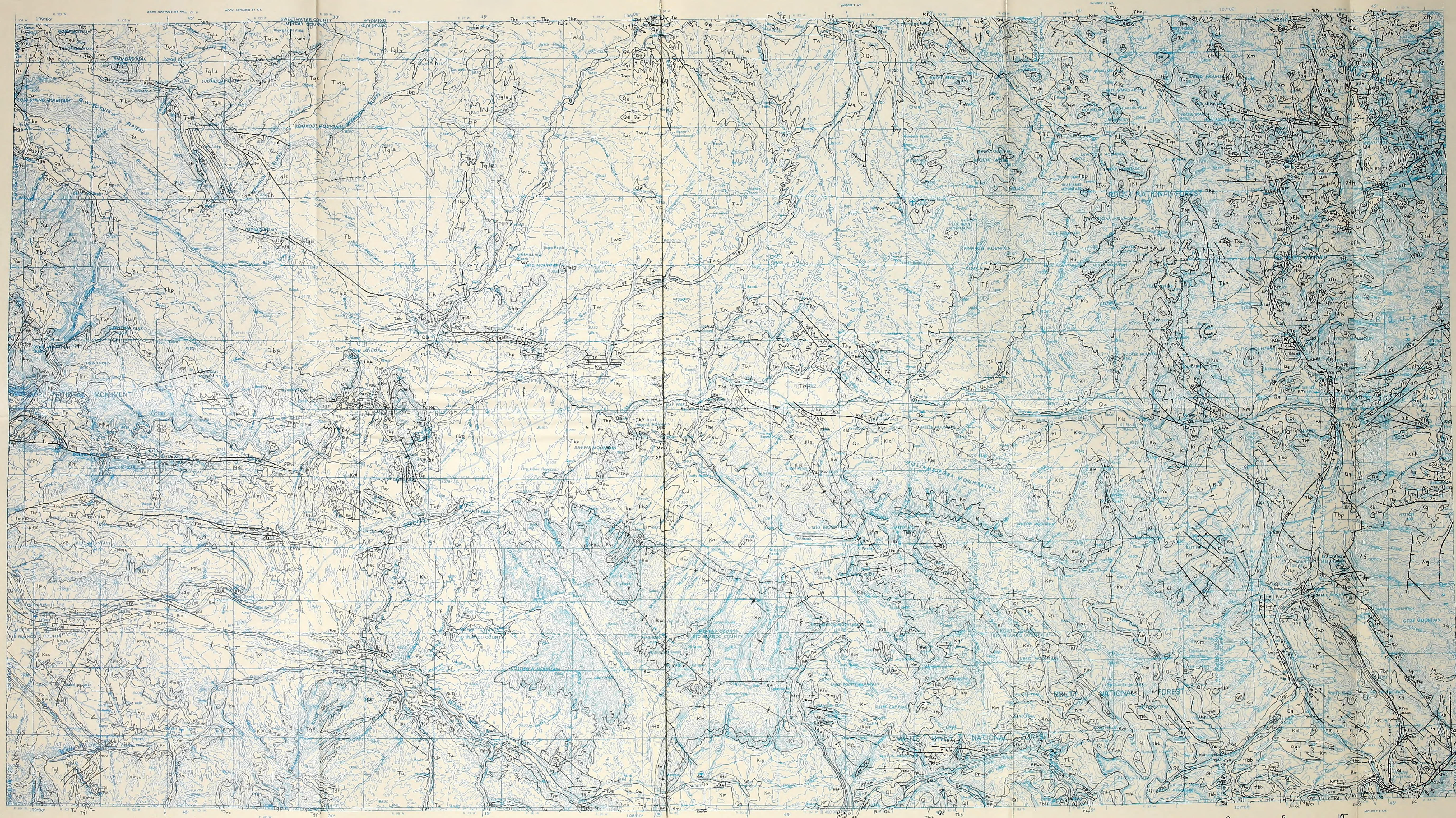


SEE SHEET ONE OF MOFFAT COUNTY FOR LEGEND

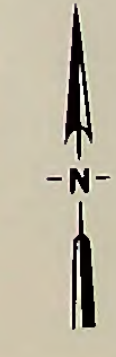
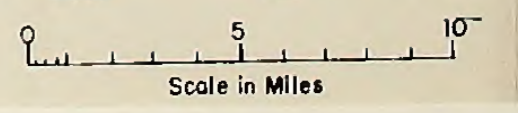
LAND USE MAP ROUTT COUNTY COLORADO

AUGUST 1975





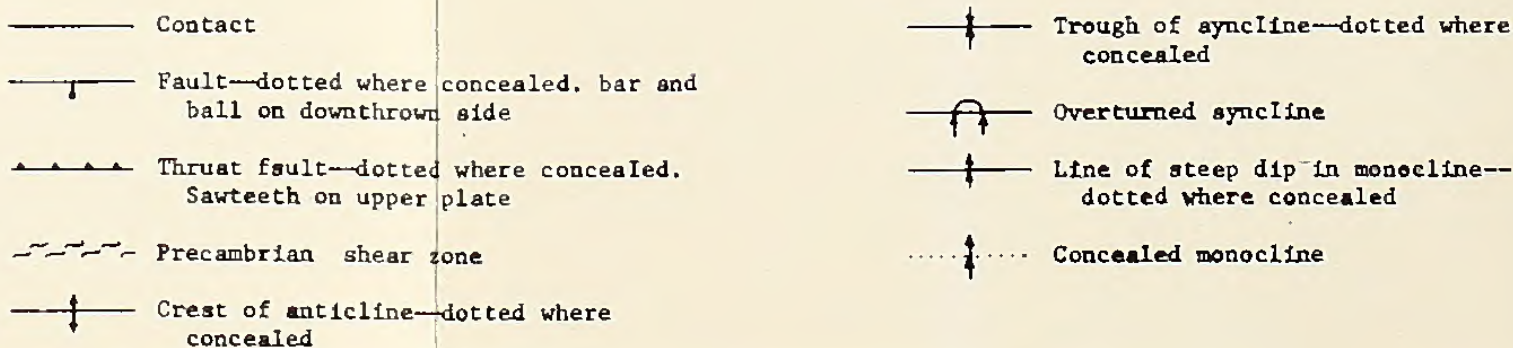
GEOLOGIC MAP OF NORTHWEST COLORADO



EXPLANATION

(Refer to Appendix D for Descriptions of Geologic Formations)

<p>UNCONSOLIDATED NOLOCENE DEPOSITS</p> <p>Qa Alluvium</p> <p>Qe Eolian deposits</p> <p>Ql LANDSLIDE DEPOSITS</p> <p>UNCONSOLIDATED PLEISTOCENE DEPOSITS</p> <p>Qg Young gravels</p> <p>Qd Young glacial drift</p> <p>Qgo Old gravels and alluvium</p> <p>Qdo Old glacial drift</p> <p>Tg PREGLACIAL GRAVEL (PLIOCENE)</p> <p>Tbp BROWNS PARK FORMATION (MIOCENE)</p> <p>Tbb BASALT OF BIMODAL VOLCANIC SUITE (PLIOCENE AND MIOCENE)</p> <p>* Volcanic neck</p> <p>Tui UPPER TERTIARY INTRUSIVE ROCKS (PLIOCENE AND MIOCENE)</p> <p>+++ Dike or sill</p> <p>Tv VOLCANIC ROCKS (PLIOCENE, MIOCENE, AND OLIGOCENE)</p> <p>Toa OLIGOCENE(?) SEDIMENTARY ROCKS</p> <p>Tb BRIDGER FORMATION (EOCENE)</p> <p>Tv UINTA FORMATION (EOCENE)</p> <p>Tg GREEN RIVER FORMATION (EOCENE)</p> <p>Tgp Parachute Creek Member</p> <p>Tgl Lower part</p> <p>Tglm Laney Member</p> <p>Tgt Tipton Tongue</p> <p>Tglu Luman Tongue</p> <p>WASATCH FORMATION (EOCENE)</p> <p>Twc Cathedral Bluffa Tongue</p> <p>Tw Main body</p> <p>Twn Niland Tongue</p> <p>Tf PORT UNION FORMATION (PALEOCENE)</p> <p>OHIO CREEK FORMATION (PALEOCENE)</p> <p>Two WASATCH AND OHIO CREEK FORMATIONS</p> <p>Kl LANCE FORMATION (UPPER CRETACEOUS)</p> <p>Kls LEWIS SHALE (UPPER CRETACEOUS)</p> <p>Kmv MESAVERDE GROUP UNDIVIDED (UPPER CRETACEOUS)</p> <p>Kmvw Upper part</p> <p>Kw Williams Fork Formation</p> <p>Ki Iles Formation</p> <p>Km MANCOS SHALE (UPPER AND LOWER CRETACEOUS)</p> <p>Kafa Frontier Sandstone and Mowry Shale Members and intervening shale</p> <p>Kd DAKOTA SANDSTONE (LOWER CRETACEOUS)</p>	<p>Jm MORRISON FORMATION (UPPER JURASSIC)</p> <p>Mzu MESOZOIC ROCKS UNDIVIDED</p> <p>Kfd Frontier Sandstone and Mowry Shale Members of Mancoa Shale, and Dakota Sandstone</p> <p>KJda Dakota and Morrison Formations</p> <p>KJde Dakota, Morrison, Curtia, and Entrada Formations</p> <p>KJds Dakota, Morrison, and Sundance Formations</p> <p>Jmc Morrison and Curtia Formations</p> <p>Jmce Morrison, Curtia, and Entrada Formations</p> <p>Jmec Morrison, Curtia, Entrada, and Carmel Formations</p> <p>Jma Morrison and Sundance Formations</p> <p>JRmg Morrison, Curtia, Entrada, and Glen Canyon Formations</p> <p>JRg GLEN CANYON SANDSTONE (LOWER JURASSIC AND UPPER TRIASSIC)</p> <p>Trc CHINLE FORMATION (UPPER TRIASSIC)</p> <p>Trm MOENKOPI FORMATION (LOWER TRIASSIC)</p> <p>Tr CHINLE AND CHUGWATER FORMATIONS</p> <p>TRPr BELL SPRINGS MEMBER OF NUGGET SANDSTONE, POPO AGIE AND JELM FORMATIONS, AND REMNANTS OF RED PEAK FORMATION ON WEST SIDE OF PARK RANGE NEAR STATE LINE</p> <p>TRPc CHINLE AND STATE BRIDGE FORMATIONS</p> <p>Pp PARK CITY FORMATION (PERMIAN)</p> <p>TRPcp CHINLE, MOENKOPI, AND PARK CITY FORMATIONS</p> <p>PPwm WEBER SANDSTONE AND MAROON FORMATION</p> <p>PPw WEBER SANDSTONE</p> <p>PM MINTURN FORMATION (PENNSYLVANIAN) OR MORGAN FORMATION (PENNSYLVANIAN)</p> <p>PE EAGLE VALLEY EVAPORITE (PENNSYLVANIAN)</p> <p>Mr Mississippian rocks</p> <p>MDGr MISSISSIPPIAN, DEVONIAN, AND CAMBRIAN ROCKS</p> <p>MGr MISSISSIPPIAN AND CAMBRIAN ROCKS</p> <p>Gr Cambrian rocks</p> <p>Ga SAWATCH QUARTZITE (CAMBRIAN)</p> <p>Yg GRANITIC ROCKS (PRECAMBRIAN Y)</p> <p>Yw UINTA MOUNTAIN GROUP (PRECAMBRIAN Y)</p> <p>PRECAMBRIAN X</p> <p>Xg Granitic rocks</p> <p>Xm Mafic intrusive rocks</p> <p>Xfh INTERLAYERED FELSIC AND NORBLENDIC GNEISSES (PRECAMBRIAN X)</p> <p>Xb BIOTITIC GNEISSES AND MIGMATITE (PRECAMBRIAN X)</p> <p>Xq RED CREEK QUARTZITE (PRECAMBRIAN X)</p>
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