



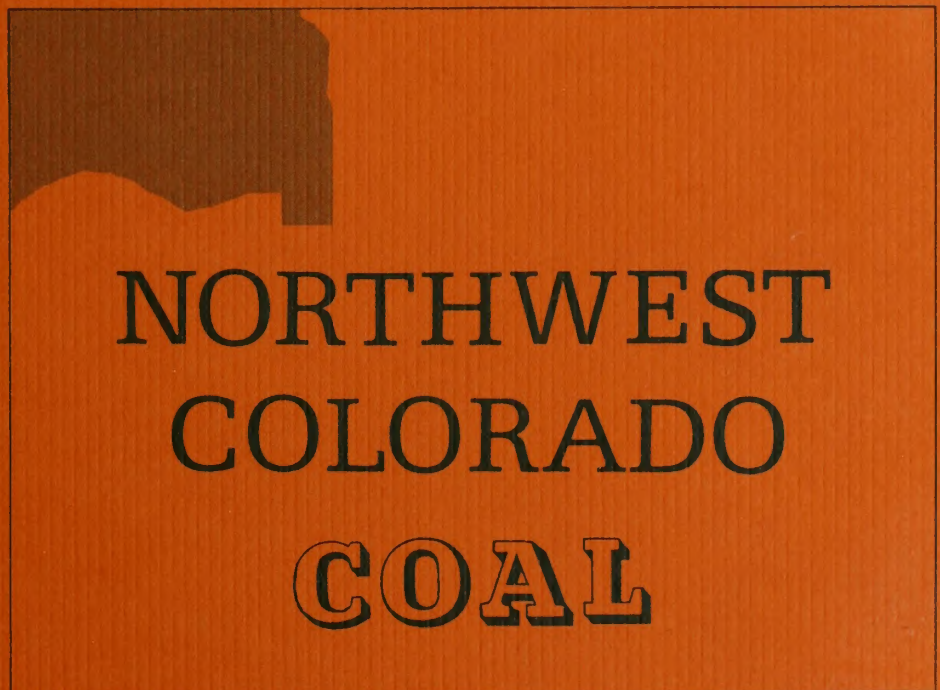
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APPENDIX A

- MAPS -

DRAFT

ENVIRONMENTAL IMPACT STATEMENT



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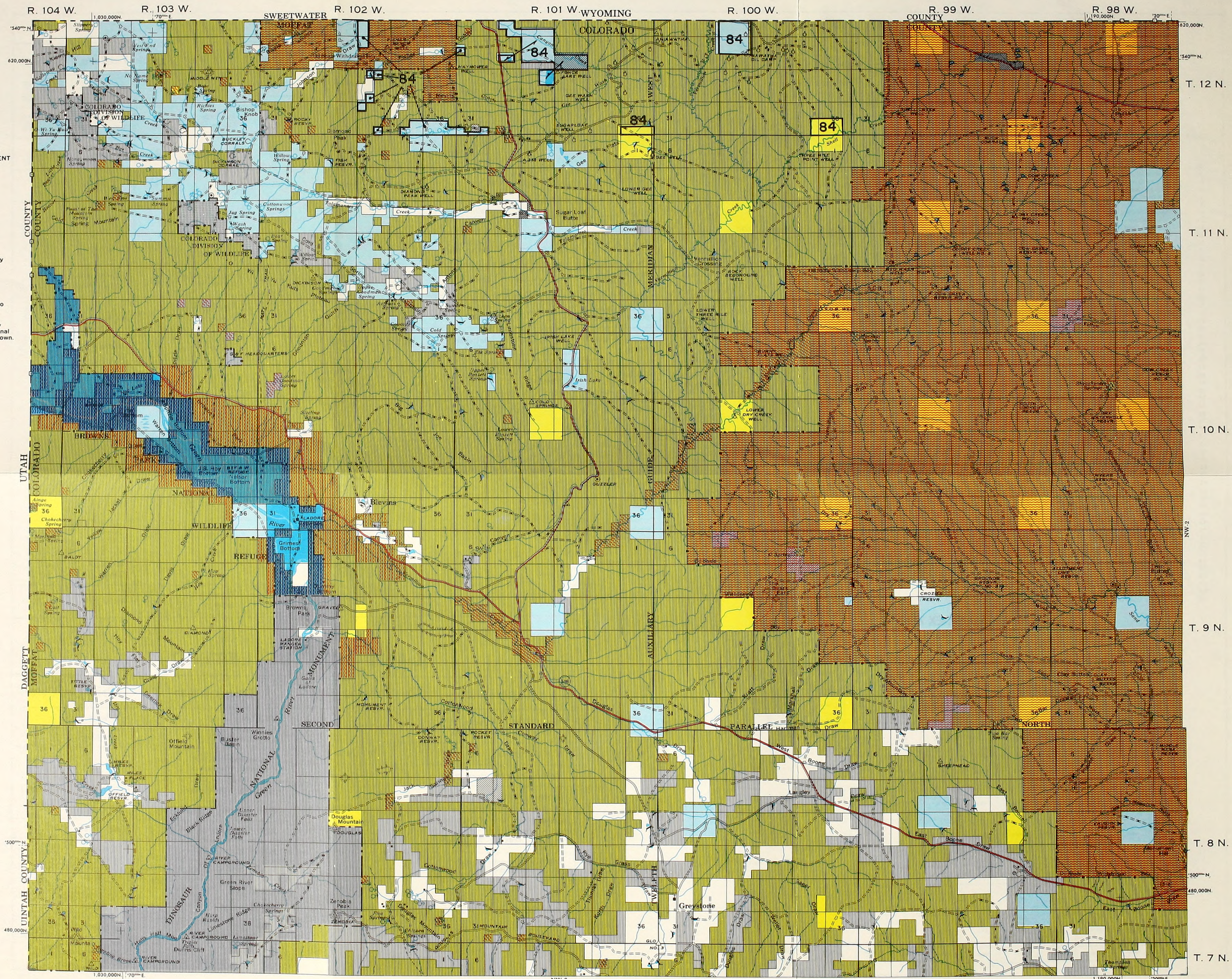
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5.	Land Use Maps—Rio Blanco County Sheet 3 and Routt County Sheet 1.
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MINERALS OWNED BY THE FEDERAL GOVERNMENT

Symbol	Mineral Rights
[Diagonal Hatching]	All Minerals
[Horizontal Hatching]	Coal Only
[Vertical Hatching]	Oil and Gas Only
[Cross-hatch]	Oil, Gas, and Coal Only
[Solid Color]	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

NW-7
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.
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Code #	Firm (Lease Holder)	Lease #			
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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-3968
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. Graca	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	Erlon 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 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-1146998
42	Mapco Inc.	392/13	101	Ember Mining Co.	C-0126999
43	Utah International, Inc.	C-079641	102	Paul E. Reibold	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	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-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-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
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
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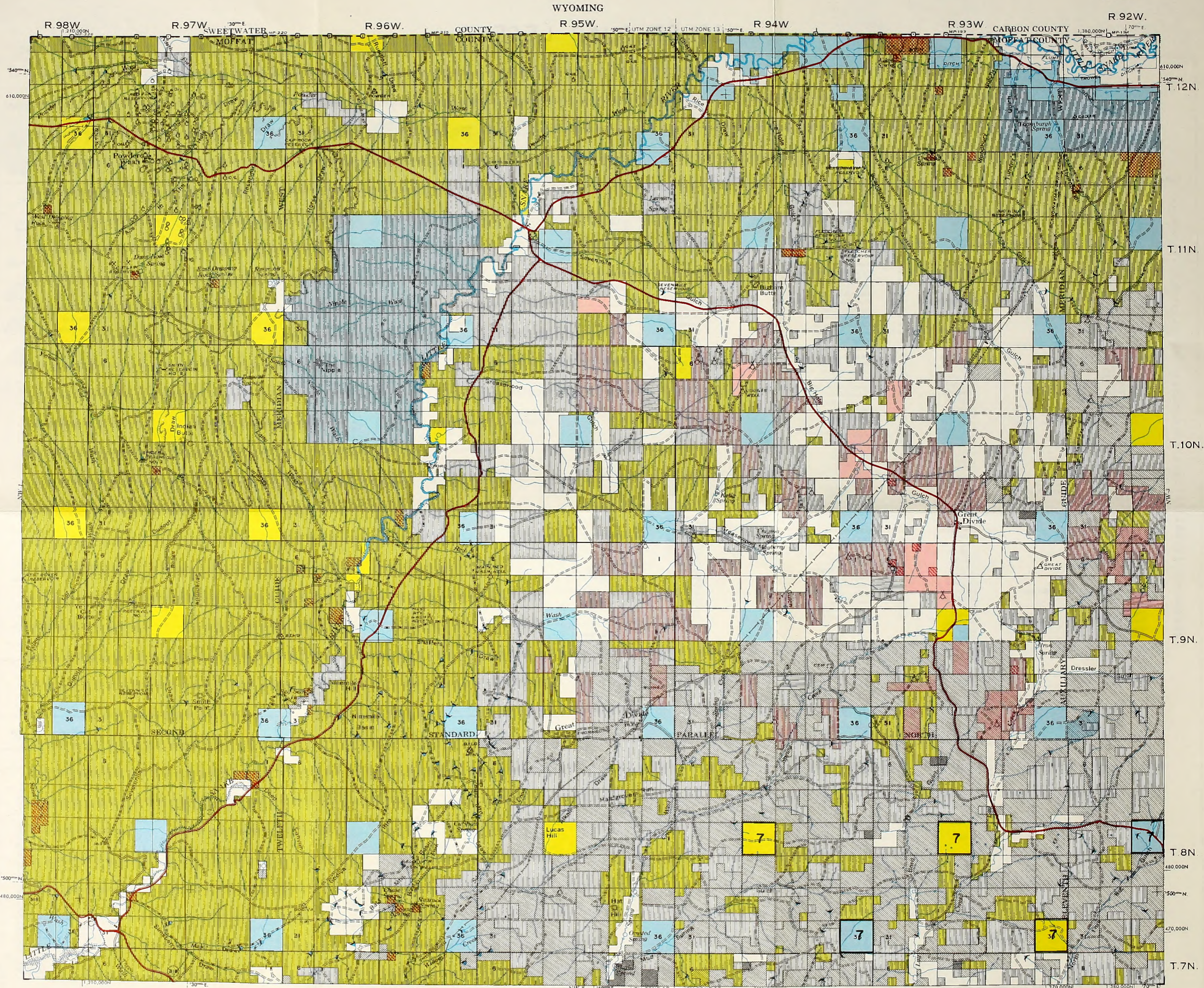
MAP SYMBOLS

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	<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		Ruins Small		Well	
State Plane Coordinates And Zone	1,500,000E	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	

LAND STATUS LEGEND

Description	Printing Color	Description	Printing Color
Public Domain (Including National Resource Lands)	Yellow	Patented	Blank
		State Lands*	Dk. Blue
D & C Lands	Lt. Green	Reclamation and Water Power Projects Withdrawal	Warm Red
CBWR Coas Bay Wagon Road	Violet	Powersite Withdrawal	Warm Red
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
Bonkhead - Jones L.U. Lands	Pink	Miscellaneous	Green
		* State Wildlife, Parks And Outdoor Recreation Areas	Blue

COLORADO



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Symbol	Mineral Rights
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[Diagonal lines \]	Coal Only
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scale 1:126,720

1974
COAL LEASE OVERPRINT SEPT 1975

7 7 7

COLOR QUAD LEGEND

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BLM proposed coal leasing areas

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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

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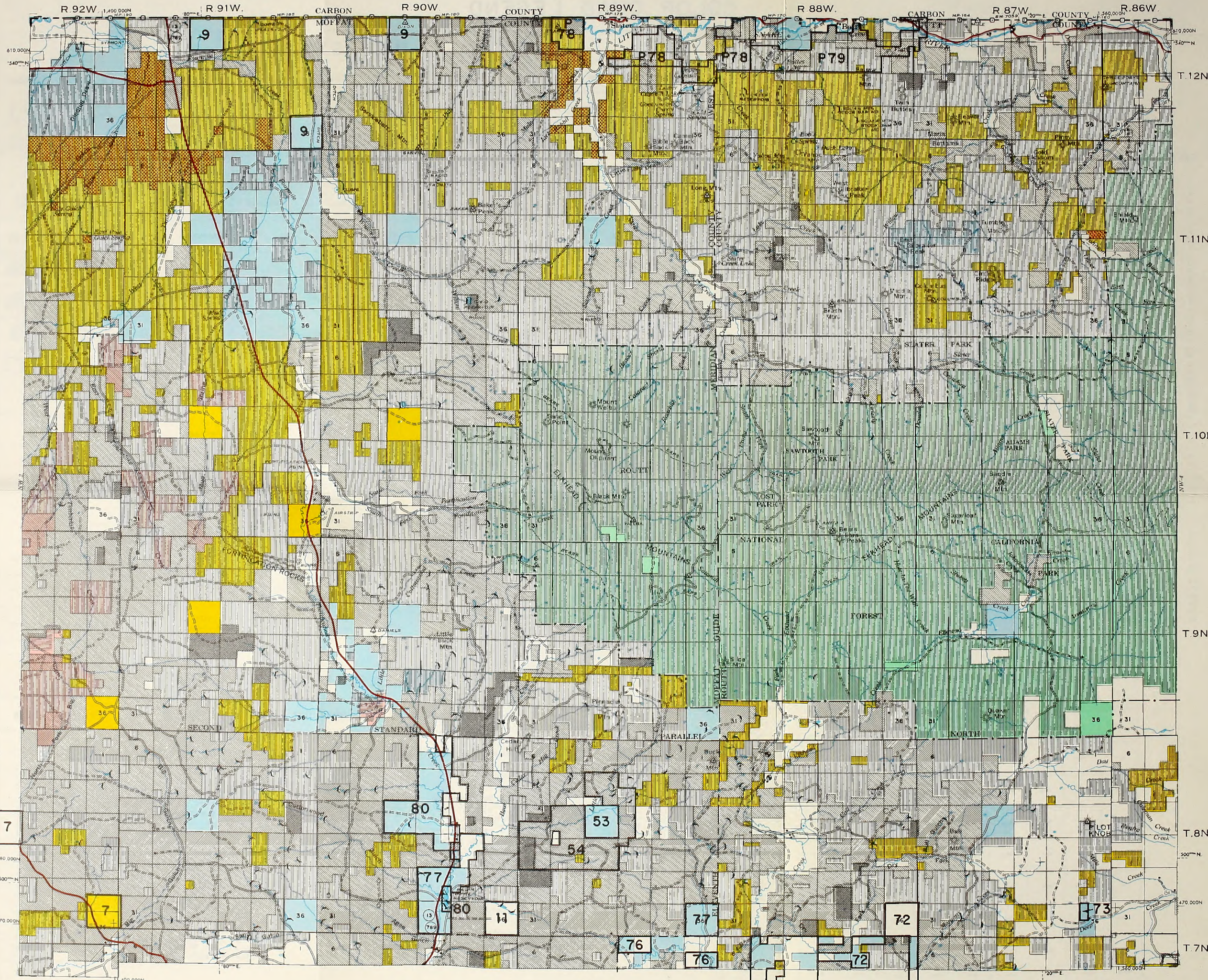
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Not'l or State		Road Seasonal Use		Road Interchange		Buildings (Abandoned)		River or Large Stream	
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Route Marker U.S.		Prominent Peak		Bluffs or Cliffs		Ditch or Canal		Aqueduct	
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LAND 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	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

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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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	Kammerer Coal Co.	C-3606																																																								
20	W.R. Grace	D-034365	Kammerer Coal Co.	C-3605																																																								
21	Gulf 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. Glaason & L.C. Craig	409/13																																																								
24	Gulf Oil Corp.	D-053710	Robert H. Glaason & L.C. Craig	410/13																																																								
25	Joa Petranovich	D-052546	Erlon E. Nowall	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 D)	C-088199	W.R. Grace	C-22837																																																								
37	Peabody Coal (Seneca D)	C-086654	W.R. Grace	C-22838																																																								
38	Peabody Coal (Seneca D)	C-0114093	W.R. Grace	C-22839																																																								
39	Material Service Corp. (Seneca ID)	C-081251	Phillip A. Jansen & K.W. Millar	C-4275																																																								
40	Material Service Corp. (Seneca ID 279/13)	C-081258	Embar Mining Co.	C-0126997																																																								
41	United Electric Coal Co.	279/13	Embar Mining Co.	C-0126998																																																								
42	Mapco Inc.	392/13	Embar Mining Co.	C-0126999																																																								
43	Utah International, Inc.	C-079841	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																																																								
46	Utah International, Inc.	C-3506	Moon Lake Electric	C-8424																																																								
47	Utah International, Inc.	C-0126480	Moon Lake Electric	C-8425																																																								
48	Utah International, Inc.	C-813	Moon Lake Electric	C-0126669																																																								
49	Empire Energy Corp.	C-14738	Cordon Stalay Coal	C-023703																																																								
50	Utah International, Inc.	257/13	Moon Lake Electric	C-15846																																																								
51	Utah International, Inc.	206/13	Commonwealth Coal Co.	C-22546																																																								
52	Ferne M. James	C-064416	Coal Fuels Corp.	C-22654																																																								
53	Pittsburgh & Midway Coal Mining Co.	266/13	Energy Fuels Corp.	C-22644																																																								
54	Peabody Coal Co.	C-0125957	Halandras Brothers	C-22628																																																								
55	Empire Energy	C-13134	Energy Fuels	C-22677																																																								
56	Cossard, Inc.	C-16618	Energy Fuels	C-22676																																																								
57	Utah International, Inc.	C-0123475	Empire Energy Corp.	C-14739																																																								
58	Utah International, Inc.	C-0123476	Peabody Coal Co.	C-22786																																																								
59	Peabody Coal Co.	C-19885																																																										

MAP SYMBOLS

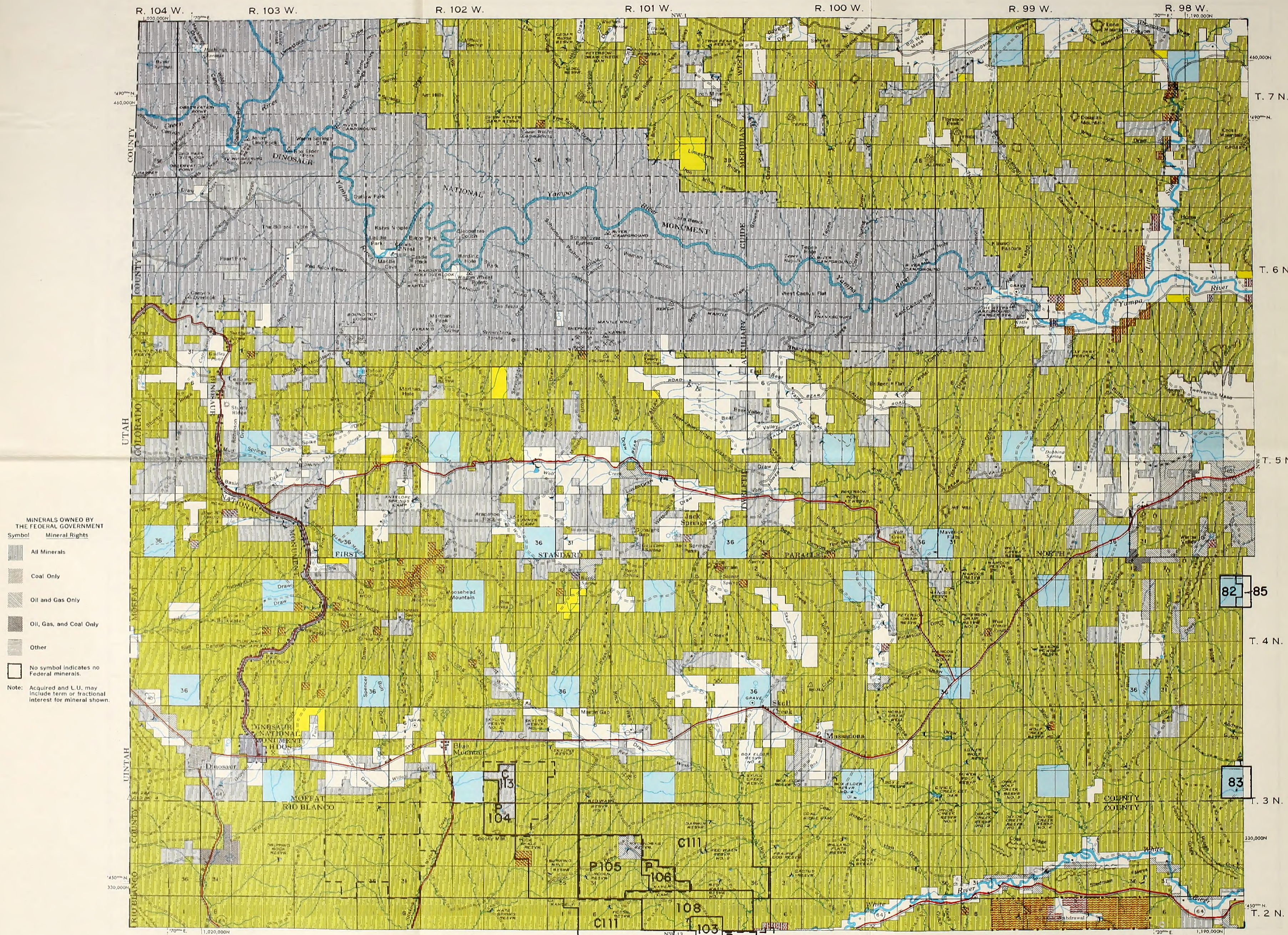
Feature	Symbol	Feature	Symbol	Feature	Symbol	Feature	Symbol	Feature	Symbol
District Bdy	—	Road All Weather	===== ===== =====	Principal Access	===== ===== =====	Buildings	■	Towns and Cities	■
Nat'l or State	— - - - -	Road Seasonal Use	-----			Buildings (Abandoned)	□	River or Large Stream	~~~~~
		Road "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	⊕	Ruins Small	⊕	Well	⊕
State Plane Coordinates And Zone	1,500,000E	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	⊕

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-6	NW-9	NW-10	NW-11	NW-12	NW-13	NE-6	NE-7	NE-8	NE-9	NE-10
NW-12	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

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
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 hatching]	All Minerals
[Cross-hatching]	Coal Only
[Cross-hatching]	Oil and Gas Only
[Cross-hatching]	Oil, Gas, and Coal Only
[Solid color]	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

NW 12
JAN 1975
102
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107
108
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105
104
102

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 (400/13)	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. Farry, 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 Whinner	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. Farry, 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-0127891	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. Stablo	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	Erion 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 ID)	C-088199	95	W.R. Grace	C-22837
37	Peabody Coal (Seneca ID)	C-086654	96	W.R. Grace	C-22838
38	Peabody Coal (Seneca ID)	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. Ribbold	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-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

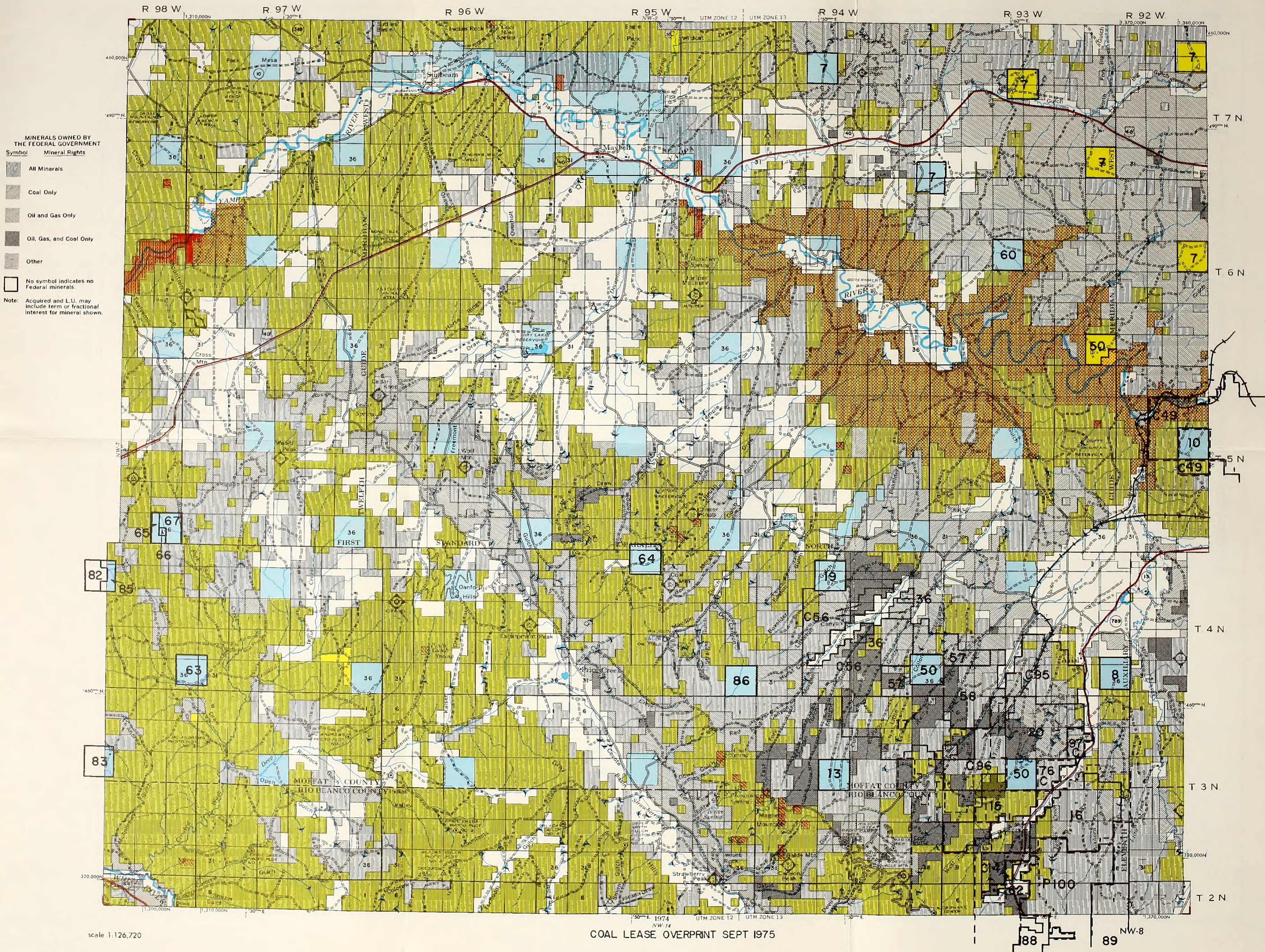
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NW-7	NW-8	NW-9	NW-10	NW-11	NW-12	NE-6	NE-7	NE-8	NE-9	NE-10
NW-13	NW-14	NW-15	NW-16	NW-17	NW-18	NE-11	NE-12	NE-13	NE-14	NE-15
NW-19	NW-20	NW-21	NW-22	NW-23	NW-24	NE-16	NE-17	NE-18	NE-19	NE-20
NW-25	NW-26	NW-27	NW-28	NW-29	NW-30	NE-21	NE-22	NE-23	NE-24	NE-25
NW-31	NW-32	SW-1	SW-2	SW-3	SW-4	SE-1	SE-2	SE-3	SE-4	SE-5
NW-7	NW-8	SW-6	SW-7	SW-8	SW-9	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	■
Not'l or State	-----	Road Seasonal Use	-----	BLM Office	■	Buildings (Abandoned)	• •	River or Large Stream	~~~~~
		Road "Jeep" Type "Primitive"	-----	Road Interchange	⊕	School	■	Stream	~~~~~
Continental Divide	—————	Trail	-----	Rest Area	⊕	Church	■	Large Dam	⊕
County	-----	Railroad Double Track	===== =====			Reservoir or Retention Dam	■		
Land Grant	-----	Railroad Single Track	-----			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	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 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
Blankhead - 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
[Cross-hatch]	Oil and Gas Only
[Dotted]	Oil, Gas, and Coal Only
[Horizontal lines]	Other
[None]	No symbol indicates no Federal minerals.

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

scale 1:126,720

COAL LEASE OVERPRINT SEPT 1975

88 89 NW-8

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	Firm (Lease Holder)	Lease #
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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	Empire Energy Corp.	345/13	66	George Brennan, Jr.	397/13
8	Ark Land Co.	365/13	67	George Brennan, Jr.	333/13
9	K. Parry, Ass'd, Paul S. Coupey (430/13)	370/13	68	Energy Fuels Corp. (Morgan)	C-9968
10	Kemmerer Coal Co.	370/13	69	Pittsburgh & Midway Coal Mining Co.	265/13
11	John Wanner	285/13	70	Peabody Coal Co.	306/13
12	Peabody Coal Co.	307/13	71	Mapco, Inc.	371/13
13	Charles C. Hughes	402/13	72	Page T. Jenkins, Ass'd, J. McDonough (379/13)	393/13
14	Arnold Gilbert	299/13	73	K. Parry, Ass'd, Paul S. Coupey (429/13)	364/13
15	James C. Goodwin	C-3440	74	Morgan Coal Co.	235/13
16	James C. Goodwin	C-0127926	75	Peabody Coal	305/13
17	James C. Goodwin	C-0127927	76	W.R. Grace	C-22836
18	Thomas G. Woodward	C-0127891	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-McCee Corp.	396/13
22	Gulf 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	Gulf 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	Rouff Mining Corp.	C-0127592	85	George Brennan, Jr.	332/13
27	Rouff Mining Corp.	D-046544	86	Superior Oil Corp.	331/13
28	Mansett's 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 II)	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 II)	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	L.C. Craig	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 Stanley 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-22654
53	Pittsburgh & Midway Coal Mining Co.	266/13	112	Energy Fuels Corp.	C-22644
54	Peabody Coal Co.	C-0125957	113	Halandros 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
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-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 Coche	■	Morsh	~~~~~
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	⊕

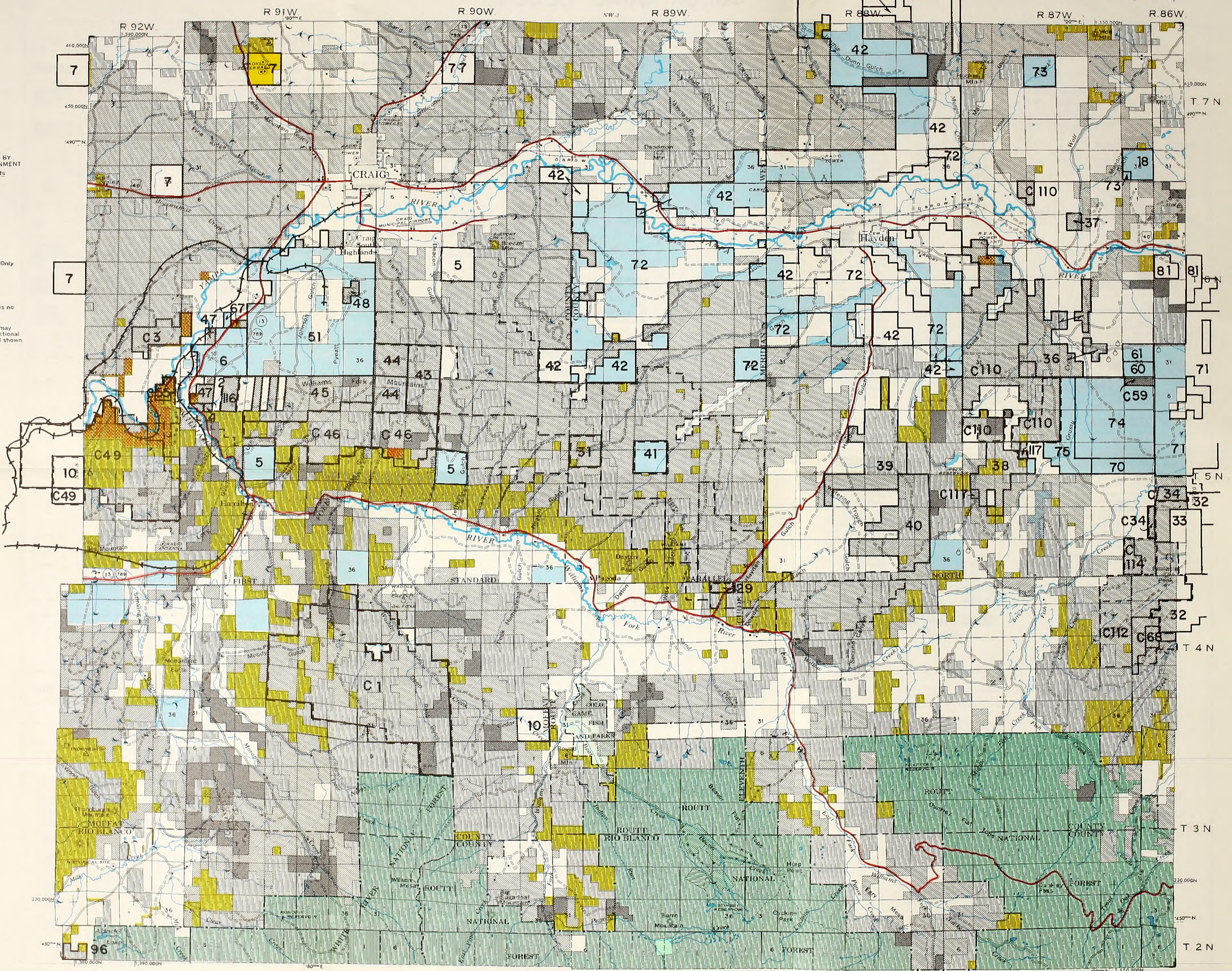
LAND STATUS LEGEND

Description	Printing Color	Description	Printing Color
Public Domain (Including National Resource Lands)	Yellow	Patented	Blank
O & C Lands	Lt. Green	State Lands *	Dk Blue
CBWR Coos 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	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
[Diagonal lines /]	All Minerals
[Diagonal lines \]	Coal Only
[Horizontal lines]	Oil and Gas Only
[Vertical lines]	Oil, Gas, and Coal Only
[Dotted pattern]	Other
[Empty box]	No symbol indicates no Federal minerals

Note: Acquired and L.U. may include terms 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 #	60	Firm (Lease Holder)	Lease #	60
1	Empire Energy Corp.	C-14737	60	Driftwood Oil Corp.: Peabody Coal (408/13)	384/13	60
2	Empire Energy Corp.	D-056298	61	Crazy Creek Coal Co.	323/13	61
3	Empire Energy Corp.	C-21981	62	Consolidated Coal Co.	C-245	62
4	Empire Energy Corp.	C-0127865	63	George Brennan, Jr.	324/13	63
5	Empire Energy Corp.	358/13	64	Charles C. Hughes	401/13	64
6	Empire Energy Corp.	366/13	65	George Brennan, Jr.	325/13	65
7	Empire Energy Corp.	345/13	66	George Brennan, Jr.	397/13	66
8	Ark Land Co.	365/13	67	George Brennan, Jr.	333/13	67
9	K. Parry, Ass'd. Paul S. Coupey (430/13)	370/13	68	Energy Fuels Corp. (Morgan)	C-9988	68
10	Kemmerer Coal Co.	370/13	69	Pittsburgh & Midway Coal Mining Co.	265/13	69
11	John Wanner	285/13	70	Peabody Coal Co.	306/13	70
12	Peabody Coal Co.	307/13	71	Mapco, Inc.	371/13	71
13	Charles C. Hughes	402/13	72	Page T. Jenkins; Ass'd. J. McDonough (379/13)	393/13	72
14	Arnold Gilbert	299/13	73	K. Parry, Ass'd. Paul S. Coupey (429/13)	364/13	73
15	James C. Goodwin	C-3440	74	Morgan Coal Co.	235/13	74
16	James C. Goodwin	C-0127926	75	Peabody Coal	305/13	75
17	James C. Goodwin	C-0127927	76	W.R. Grace	C-22836	76
18	James C. Goodwin	C-0127891	77	Sunflower Corp.	394/13	77
19	Arnold Gilbert	286/13	78	Kemmerer Coal Co.	C-3606	78
20	W.R. Grace	D-034365	79	Kemmerer Coal Co.	C-3605	79
21	Gulf Oil (Pittsburgh & Midway Coal Mining Co.)	D-033327	80	Kerr-McGee Corp.	396/13	80
22	Gulf Oil Corp.	D-041478	81	Victor P. Stabio	424/13	81
23	Gulf Oil Corp.	C-021501	82	Robert H. Glasson & L.C. Craig	409/13	82
24	Gulf Oil Corp.	D-053710	83	Robert H. Glasson & L.C. Craig	410/13	83
25	Joe Petranovich	D-052546	84	Elon E. Nowell	432/13	84
26	Routt Mining Corp.	C-0127592	85	George Brennan, Jr.	332/13	85
27	Routt Mining Corp.	D-046544	86	Superior Oil Corp.	331/13	86
28	Maneotis Sheep Co.	D-051376	87	Consolidation Coal Co.	C-1545	87
29	Ruby Construction Co.	D-051698	88	Consolidation Coal Co.	C-1546	88
30	Morgan Coal Co.	D-052547	89	Consolidation Coal Co.	C-093713	89
31	Franklin Real Estate (Amer. Elec. Power)	C-012894	90	Consolidation Coal Co.	C-093714	90
32	Morgan Coal Co.	C-081330	91	Consolidation Coal Co.	C-093715	91
33	Morgan Coal Co.	C-0128433	92	Consolidation Coal Co.	C-093716	92
34	Energy Fuels Corp.	C-209000	93	Commonwealth Coal Co.	D-044240	93
35	Morgan Coal Co.	C-16284	94	American Fuels Corp.	C-076713	94
36	Peabody Coal (Seneca D)	C-088199	95	W.R. Grace	C-22837	95
37	Peabody Coal (Seneca D)	C-086654	96	W.R. Grace	C-22838	96
38	Peabody Coal (Seneca D)	C-0114093	97	W.R. Grace	C-22839	97
39	Material Service Corp. (Seneca ID)	C-081251	98	Phillip A. Jensen & K.W. Miller	C-4275	98
40	Material Service Corp. (Seneca ID 279/13)	C-081258	99	Ember Mining Co.	C-0126997	99
41	United Electric Coal Co.	279/13	100	Ember Mining Co.	C-0126998	100
42	Mapco, Inc.	392/13	101	Ember Mining Co.	C-0126999	101
43	Utah International, Inc.	C-079641	102	Paul E. Ribbold	C-028875	102
44	Utah International, Inc.	C-07519	103	Reliable Coal Mining Co.	D-047201	103
45	Utah International, Inc.	C-07518	104	L.C. Craig	C-0125366	104
46	Utah International, Inc.	C-3506	105	Moon Lake Electric	C-8424	105
47	Utah International, Inc.	C-0126480	106	Moon Lake Electric	C-8425	106
48	Utah International, Inc.	C-813	107	Cordon Staley Coal	C-0126669	107
49	Empire Energy Corp.	C-14738	108	Moon Lake Electric	C-023703	108
50	Utah International, Inc.	257/13	109	Commonwealth Coal Co.	C-15846	109
51	Utah International, Inc.	206/13	110	Coal Fuels Corp.	C-22546	110
52	Ferne M. James	C-064416	111	Moon Lake Electric	C-22654	111
53	Pittsburgh & Midway Coal Mining Co.	266/13	112	Energy Fuels Corp.	C-22644	112
54	Peabody Coal Co.	C-0125957	113	Halondre Brothers	C-22628	113
55	Empire Energy	C-13134	114	Energy Fuels	C-22677	114
56	Cossard, Inc.	C-16618	115	Energy Fuels	C-22676	115
57	Utah International, Inc.	C-0123475	116	Empire Energy Corp.	C-14739	116
58	Utah International, Inc.	C-0123476	117	Peabody Coal Co.	C-22786	117
59	Peabody Coal Co.	C-19885				

QUAD INDEX MAP COLORADO

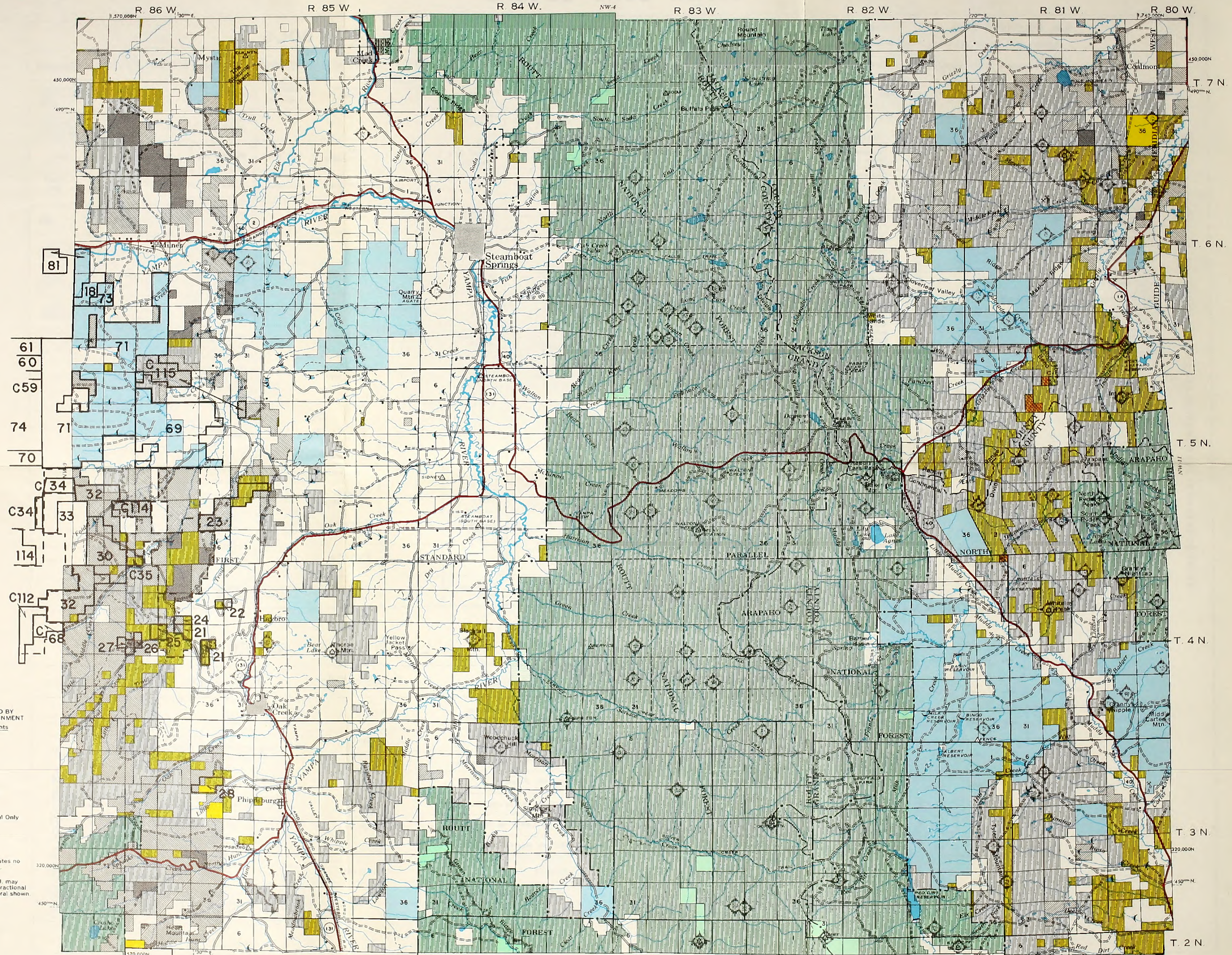
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NW-7	NW-8	NW-9	NW-10	NW-11	NW-12	NE-6	NE-7	NE-8	NE-9	NE-10
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SW-1	SW-2	SW-3	SW-4	SW-5	SW-6	SE-1	SE-2	SE-3	SE-4	SE-5
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SW-19	SW-20	SW-21	SW-22	SW-23	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		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 Oike		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	Patented	Blank
O & C Lands	Lt. Green	State Lands *	Ok. 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- James 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 hatching]	All Minerals
[Cross-hatching]	Coal Only
[Horizontal hatching]	Oil and Gas Only
[Vertical 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.
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-3958
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	Gulf 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	Gulf 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	Manotis 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 III)	C-081251	98	Phillip A. Jensen & K.W. Miller	C-4275
40	Material Service Corp. (Seneca III) 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-079541	102	Paul E. Ribold	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-0123366
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-054416	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	Halendras Brothers	C-22628
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58	Utah International, Inc.	C-0123476	117	Peabody Coal Co.	C-22786
59	Peabody Coal Co.	C-19885			

QUAD INDEX MAP

COLORADO

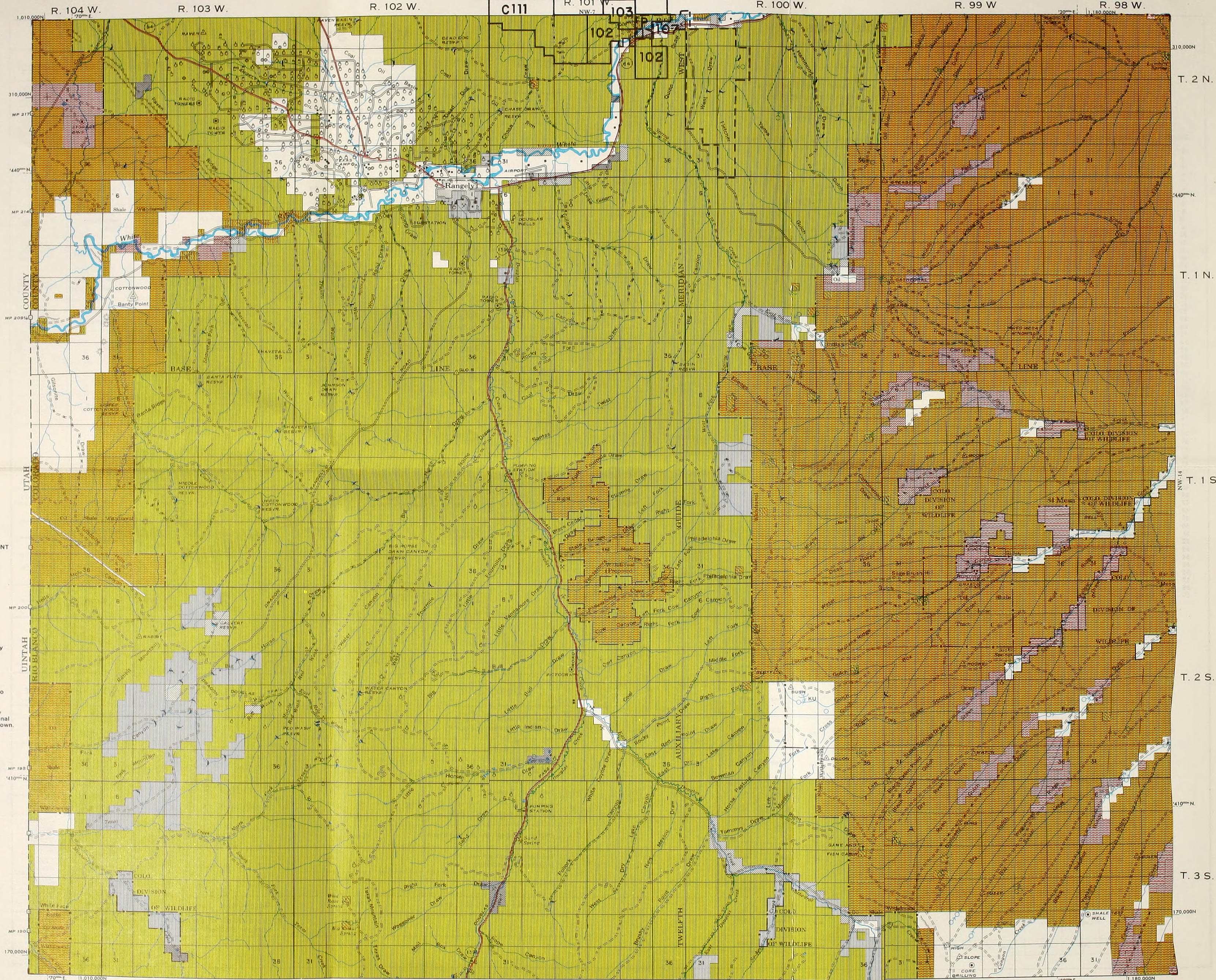
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SW-25	SW-26	SW-27	SW-28	SW-29	SW-30	SE-21	SE-22	SE-23	SE-24	SE-25

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	—	Church	■	Radio Installation	■	Reservoir or Retention Dam	—
Miscellaneous (Res., etc.)	—	Railroad Single Track	—	Levee or Dike	—	Fire Lookout (Primary)	▲	Lake or Pond	—
Park (State, County or Local)	—	Glacier	—	Corral	○	Fire Lookout (Secondary)	▲	Intermittent Lake or Pond	—
Township and Range	Surveyed — Protected —	Road Bridge	—	Recreation Site	▲	Fire Tool Coche	■	Dry Lake or Pond	—
Section	Surveyed — Protected —	Railroad Bridge	—	Tanks (label as to type)	○	Shelter	■	Morsh	—
Sec., Status Subdivision	—	Foot Bridge	—	Oil or Gas Wells	○	Cliff Dwelling	■	Spring	○
Section Identification	6	Ferry	—	Mine or Quarry	×	Small Ruins	○	Improved Spring	○
State Plane Coordinates And Zone	1,500,000E	Road Ford	—	US Mineral or Location Monument	▲	Large Ruins	○	Well	○
Boundary Monument	—	Trail Ford	—	Located Object (Labeled)	○	Cemetery	○	Artesian Well	○
Route Marker Interstate	—	Road Tunnel	—	Triangulation Station	▲	Sawmill	▲	Windmill	▲
Route Marker U.S.	—	Railroad Tunnel	—	Bluffs or Cliffs	—	Airfield	—	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	Patented	Blank
O & 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	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 hatching]	All Minerals
[Cross-hatching]	Coal Only
[Horizontal hatching]	Oil and Gas Only
[Vertical hatching]	Oil, Gas, and Coal Only
[Stippled pattern]	Other
[White 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	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 Patranovich	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 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. Ribbold	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	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-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-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-6	NW-7	NW-8	NW-9	NW-10	NW-11	NE-6	NE-7	NE-8	NE-9	NE-10
NW-12	NW-13	NW-14	NW-15	NW-16	NW-17	NE-11	NE-12	NE-13	NE-14	NE-15
NW-18	NW-19	NW-20	NW-21	NW-22	NW-23	NE-16	NE-17	NE-18	NE-19	NE-20
NW-24	NW-25	NW-26	NW-27	NW-28	NW-29	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-26	SW-27	SW-28	SW-29	SW-30	SW-31	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	-----	Road Interchange	⊕	Buildings (Abandoned)	•	River or Large Stream	—
Continental Divide	— — — —	Trail	-----	Rest Area	⊕	School	■	Large Dam	⊕
County	— · — · —	Railroad Double Track	—+—+—+—	Church	■	Reservoir or Retention Dam	⊕	Lake or Pond	⊕
Land Grant	— · · —	Railroad Single Track	—+—+—	Radio Installation	■	Intermittent Lake or Pond	⊕	Dry Lake or Pond	⊕
Miscellaneous (Res., etc.)	— · —	Glacier	⊕	Levee or Dike	—+—+—	Morsh	⊕	Spring	⊕
Park (State, County or Local)	— · —	Road Bridge	⊕	Corral	⊕	Shelter	■	Improved Spring	⊕
Township and Range	Surveyed Protracted	Railroad Bridge	⊕	Recreation Site	⊕	Cliff Dwelling	■	Well	⊕
Section	Surveyed Protracted	Foot Bridge	⊕	Tanks (label as to type)	⊕	Small Ruins	■	Artesian Well	⊕
Sec., Status Subdivision	—	Ferry	⊕	Oil or Gas Wells	⊕	Large Ruins	■	Cemetery	⊕
Section Identification	6	Road Ford	⊕	Mine or Quarry	⊕	CEM	⊕	Sowmill	⊕
State Plane Coordinates And Zone	1,500,000 E	Trail Ford	⊕	US Mineral or Location Monument	⊕	Airfield	⊕	Aqueduct Tunnel	⊕
Boundary Monument	⊕	Road Tunnel	⊕	Located Object (Labeled)	⊕	Ditch or Canal	⊕	Aqueduct	⊕
Route Marker Interstate	⊕	Railroad Tunnel	⊕	Bluffs or Cliffs	⊕	Gaging Station	⊕		
Route Marker U.S.	⊕	Prominent Peak	⊕	Prominent Ridge	⊕				

LAND STATUS LEGEND

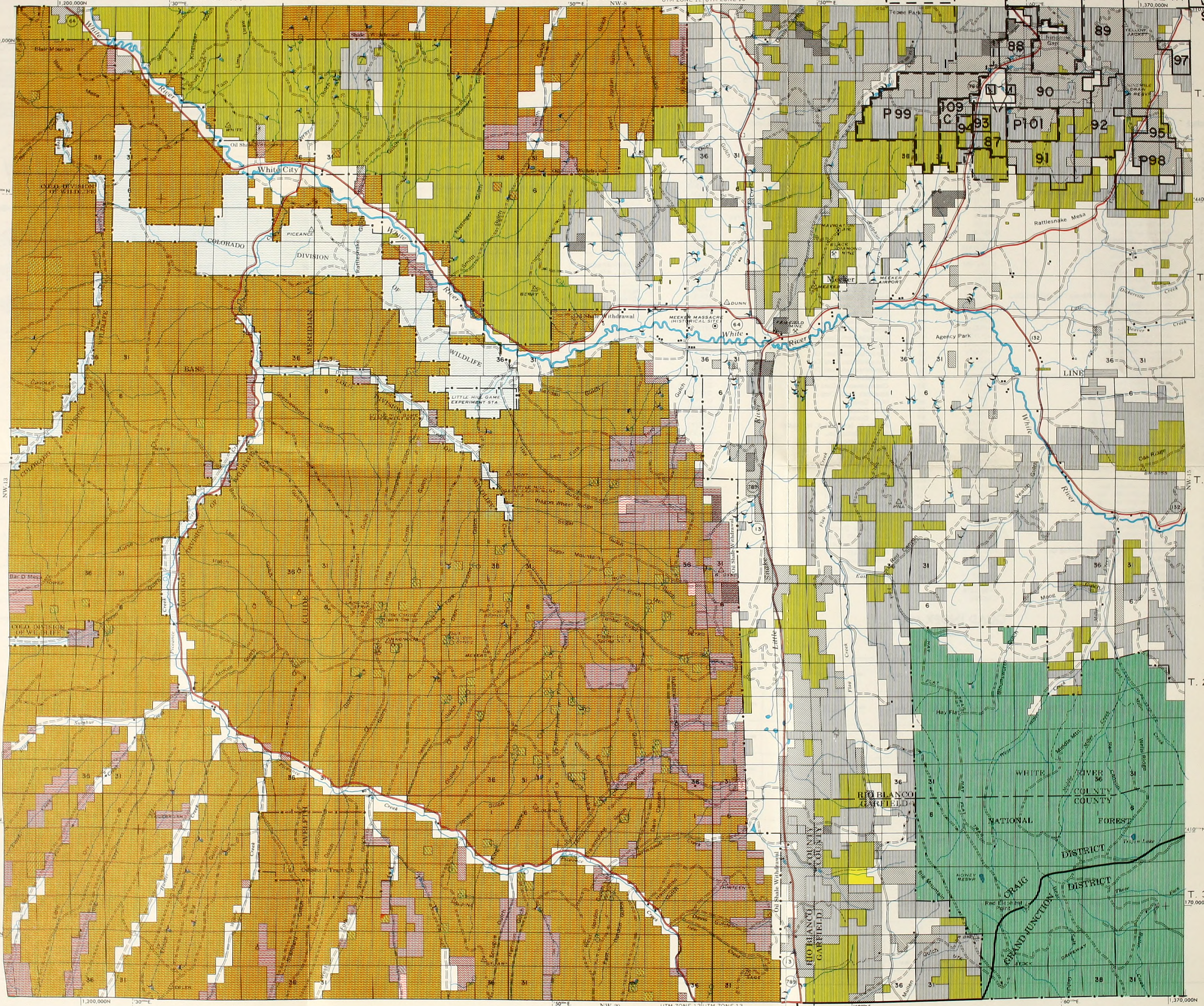
Description	Printing Color	Description	Printing Color
Public Domain (Including National Resource Lands)	Yellow	Patented	Blank
O & C Lands	Lt. Green	State Lands *	Dk. Blue
C B W R Coos Bay Wagon Road	Violet	Reclamation and Water Power Projects Withdrawal	Warm Red
National Forest	Green	Powersite Withdrawal	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
Bonkhead - Jones L.U. Lands	Pink	Radio & Air Facilities	Green
		Miscellaneous	Green
		* State Wildlife, Parks And Outdoor Recreation Areas	Blue

R. 98 W. 1:200,000 R. 97 W. R. 96 W. R. 95 W. UTM ZONE 12 UTM ZONE 13 R. 94 W. R. 93 W. R. 92 W. 1:370,000

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
[Dotted pattern]	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	Empira Energy Corp.	C-14737	60	Driftwood Oil Corp.: Peabody Coal (408/13)	384/13
2	Empira Energy Corp.	D-056298	61	Grassy Creek Coal Co.	323/13
3	Empira Energy Corp.	C-21981	62	Consolidated Coal Co.	C-245
4	Empira Energy Corp.	C-0127865	63	George Brennan, Jr.	324/13
5	Empira Energy Corp.	358/13	64	Charles C. Hughes	401/13
6	Empira 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. Coupay (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. Jankins: Ass'd. J. McDonough (379/13)	393/13
14	James C. Goodwin	C-3440	73	K. Parry, Ass'd. Paul S. Coupay (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
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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. Stablo	424/13
23	Gulf Oil Corp.	C-021501	82	Robert H. Glaason & L.C. Craig	409/13
24	Gulf Oil Corp.	D-053710	83	Robert H. Glaason & L.C. Craig	410/13
25	Joa 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	Manotis 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. Jansen & 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-079541	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-0123366
46	Utah International, Inc.	C-3506	105	Moon Lake Electric	C-8424
47	Utah International, Inc.	C-0126480	106	Moon Lake Electric	C-0126669
48	Utah International, Inc.	C-813	107	Gordon Staley Coal	C-023703
49	Empire Energy Corp.	C-14738	108	Moon Lake Electric	C-15846
50	Utah International, Inc.	257/13	109	Commonwealth Coal Co.	C-22546
51	Utah International, Inc.	206/13	110	Coal Fuels Corp.	C-22654
52	Ferne M. James	C-064416	111	Moon Lake Electric	C-22644
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	Empire Energy Corp.	C-14739
57	Utah International, Inc.	C-0123475	116	Peabody Coal Co.	C-22786
58	Utah International, Inc.	C-0123476			
59	Peabody Coal Co.	C-19885			

QUAD INDEX MAP COLORADO

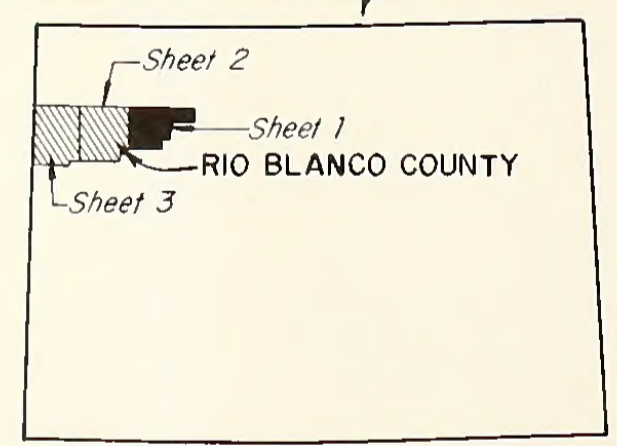
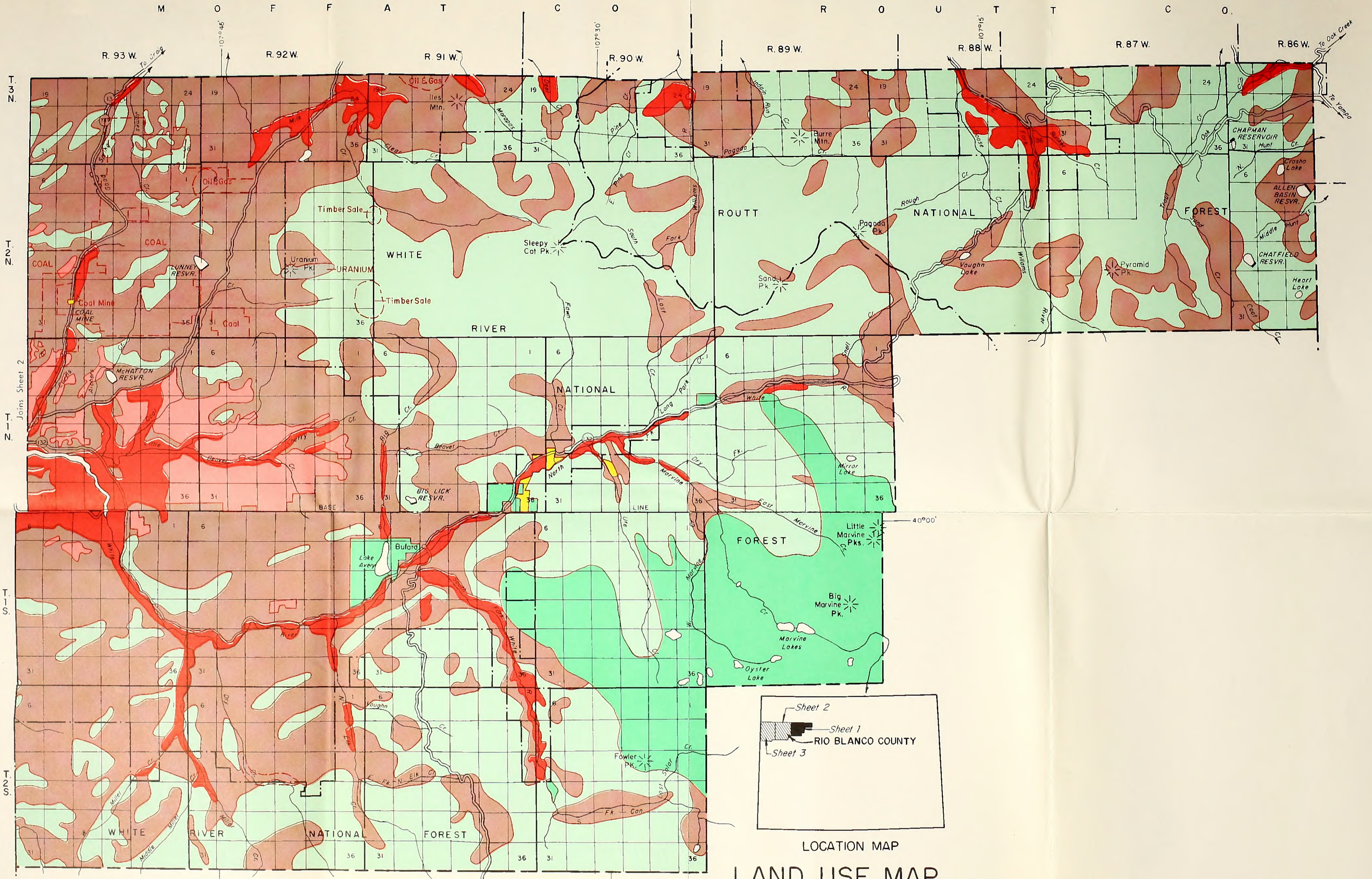
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NW-1	NW-2	NW-3	NW-4	NW-5	NW-6	SE-1	SE-2	SE-3	SE-4	SE-5
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NW-25	NW-26	NW-27	NW-28	NW-29	NW-30	SE-25	SE-26	SE-27	SE-28	SE-29

MAP SYMBOLS

Feature	Symbol	Feature	Symbol	Feature	Symbol	Feature	Symbol	Feature	Symbol
District Bdy	—————	Road All Weather		Principal Access		Buildings		Towns and Cities	
Not'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	===== ===== -----	Radio Installation		Reservoir or Retention Dam		Lake or Pond	
Miscellaneous (Res., etc.)	-----	Railroad Single Track	===== -----	Fire Lookout (Primary)		Intermittent Lake or Pond		Dry Lake or Pond	
Park (State, County or Local)	-----	Glacier		Fire Lookout (Secondary)		Morsh		Spring	
Township and Range	<u>Surveyed</u> <u>Protracted</u>	Road Bridge		Recreation Site		Shelter		Improved Spring	
Section	<u>Surveyed</u> <u>Protracted</u>	Railroad Bridge		Tanks (label as to type)		Cliff Dwelling		Well	
Sec., Status Subdivision	-----	Foot Bridge		Mine or Quarry		Cemetery		Artesian Well	
Section Identification	6	Ferry		US Mineral or Location Monument		Sawmill		Windmill	
State Plane Coordinates, And Zone	1,500,000E	Road Ford		Located Object (Labeled)		Airfield		Aqueduct Tunnel	
Boundary Monument		Road Tunnel		Triangulation Station		Ditch or Canal		Aqueduct	
Route Marker Interstate		Road Tunnel		Bluffs or Cliffs		Gaging Station			
Route Marker U.S.		Prominent Peak		Prominent Ridge					
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 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	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



LOCATION MAP
LAND USE MAP
RIO BLANCO COUNTY
COLORADO

SEE SHEET ONE OF MOFFAT COUNTY FOR LEGEND

AUGUST 1975



SCALE 1:126,720

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



R. 98 W. R. 97 W. R. 96 W. R. 95 W. R. 94 W.

T. 3 N.

T. 2 N.

T. 1 N.

T. 1 S.

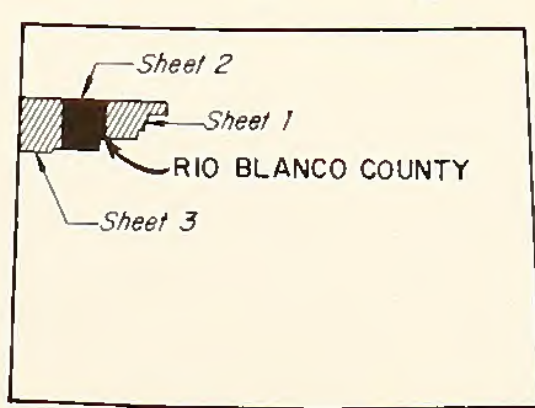
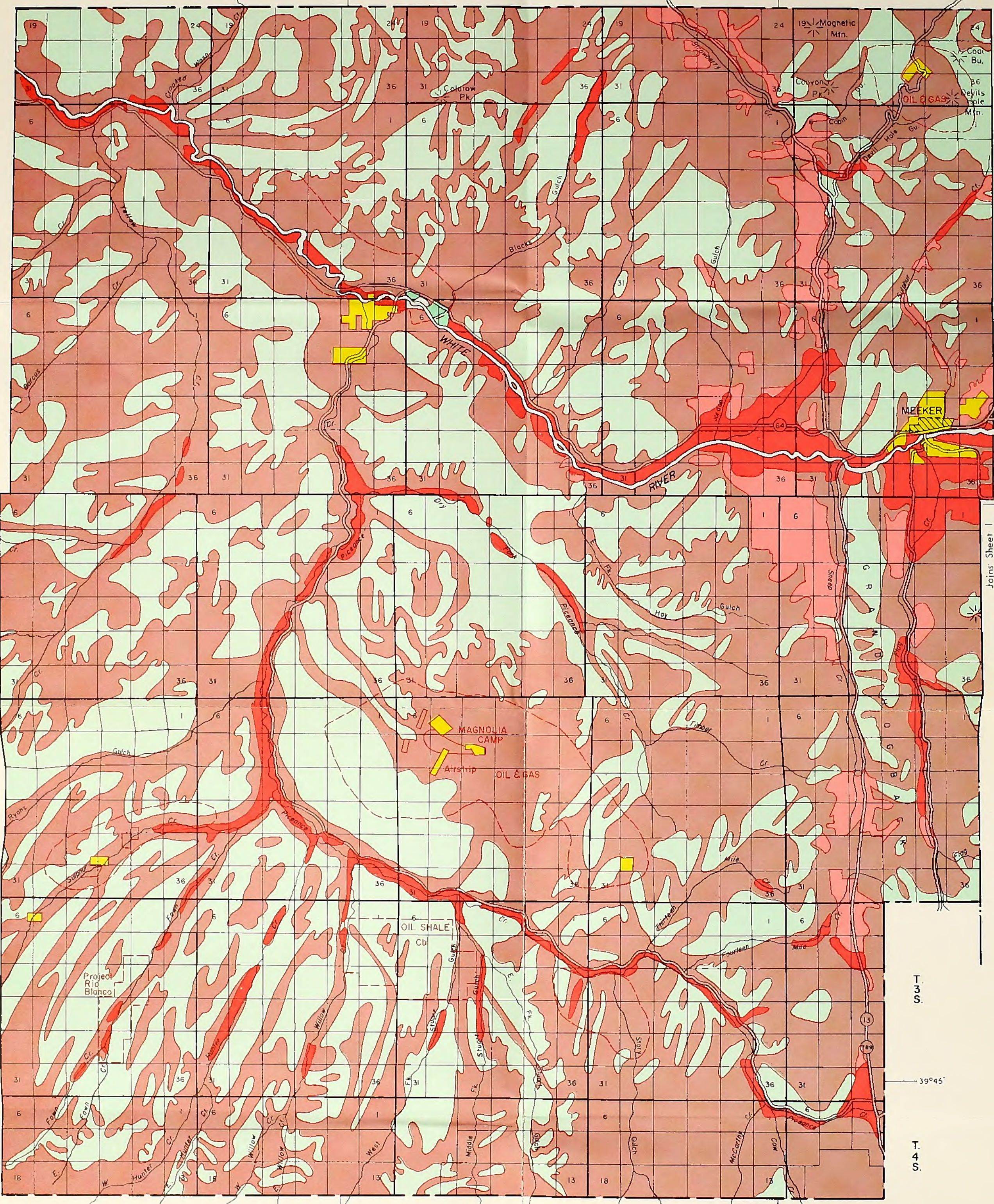
T. 2 S.

T. 3 S.

T. 4 S.

M O F A T C O

G A R F I E L D C O



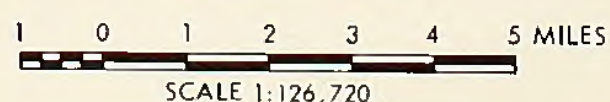
LOCATION MAP

LAND USE MAP

RIO BLANCO COUNTY

COLORADO

AUGUST 1975











SEE SHEET ONE MOFFAT COUNTY FOR LEGEND

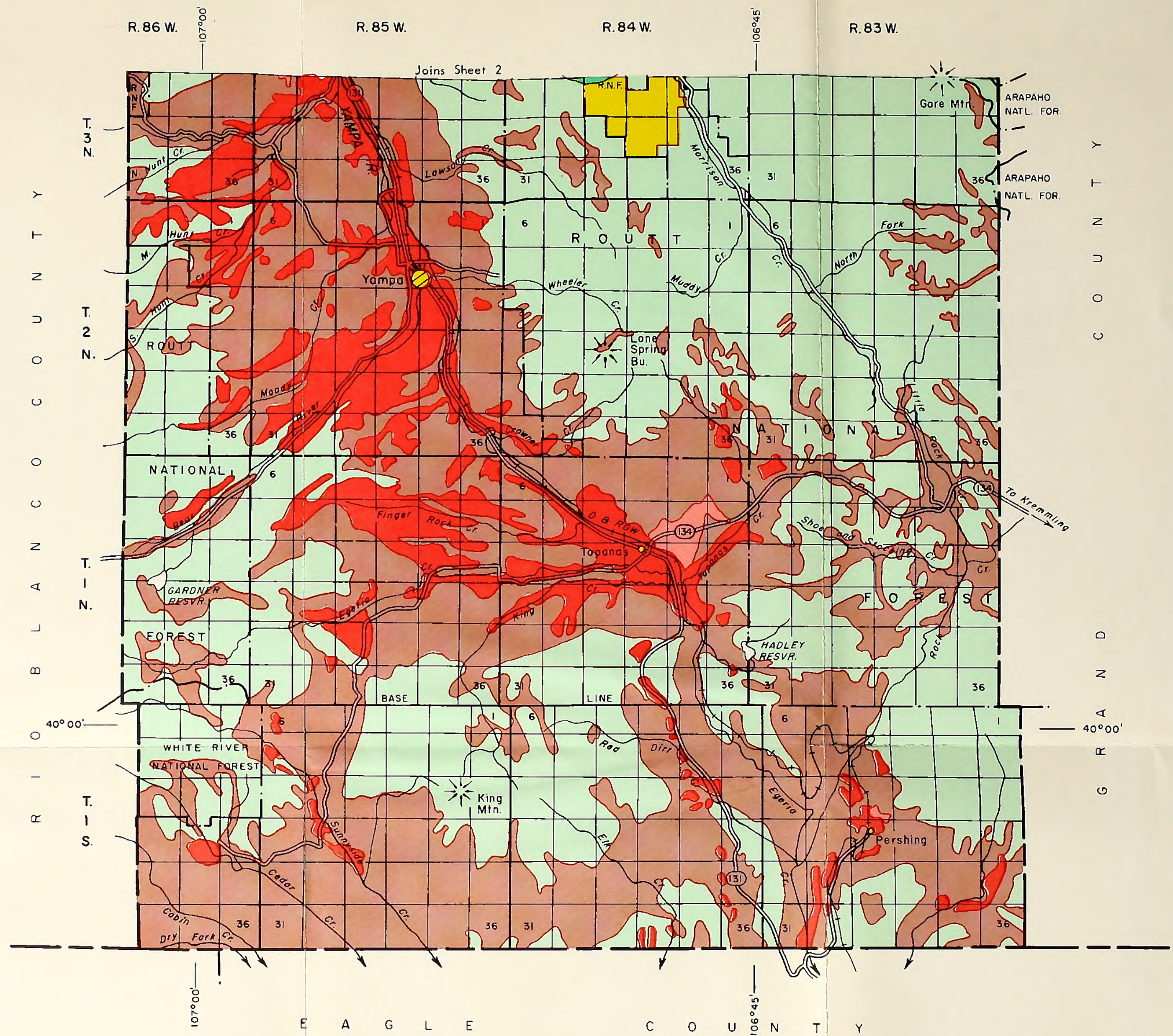
ADAPTED FROM A MAP BY THE U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

M7-O-22527-52

Sheet 2 of 3

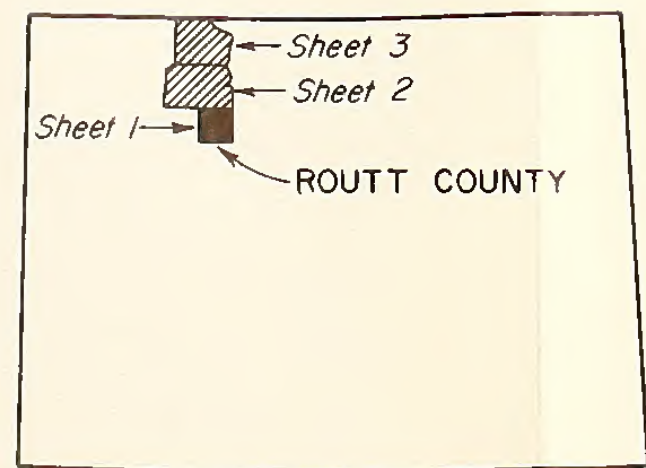
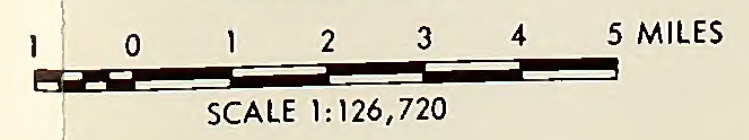
Land Use Map Legend

-  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



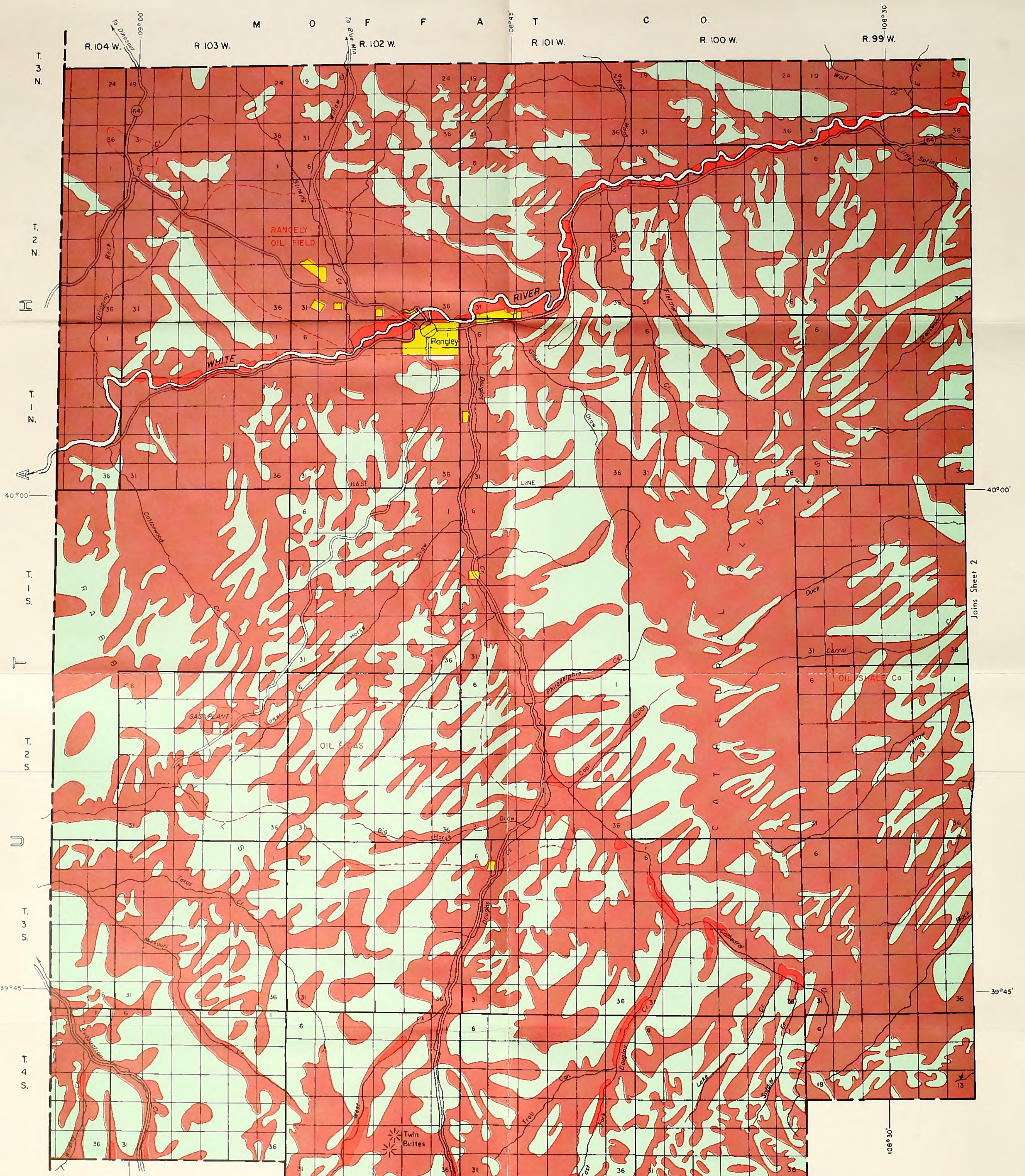
LAND USE MAP
ROUTT COUNTY
COLORADO

AUGUST 1975



SEE SHEET ONE OF MOFFAT COUNTY FOR LEGEND

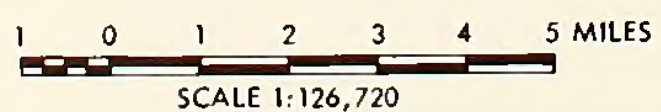
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G A R F I E L D C O.

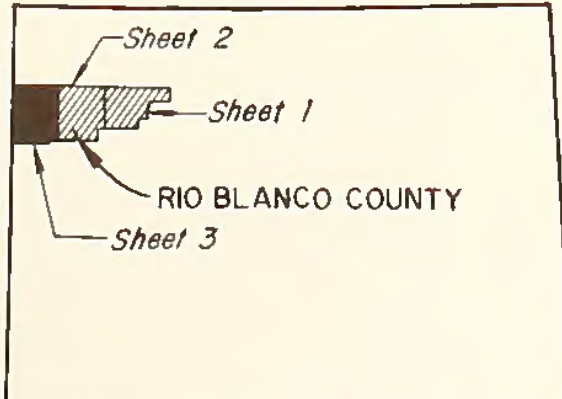
LAND USE MAP
RIO BLANCO COUNTY
COLORADO

AUGUST 1975



SEE SHEET ONE - MOFFAT COUNTY FOR LEGEND

M7-O-22527-52
 Sheet 3 of 3



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R. 89 W.

R. 88 W.

R. 87 W.

R. 86 W.

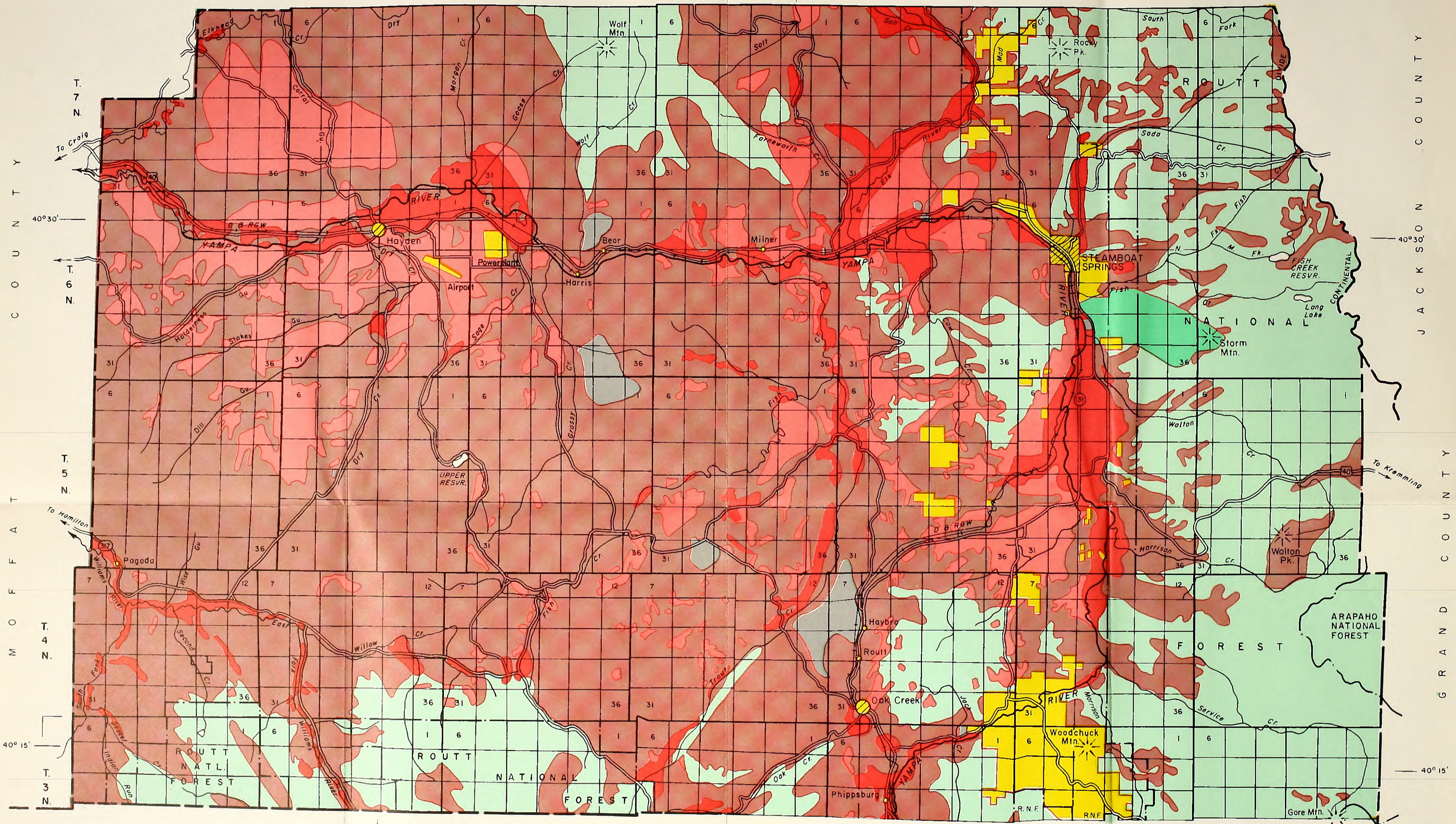
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R. 84 W.

R. 83 W.

Joins Sheet 3

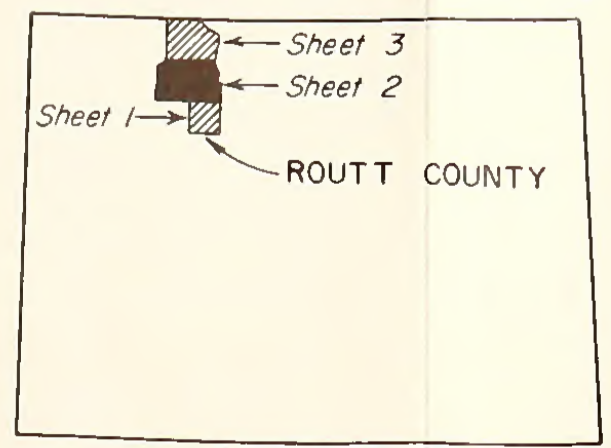
Joins Sheet 1



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

C O U N T Y
J A C K S O N
C O U N T Y
G R A N D

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



LOCATION MAP

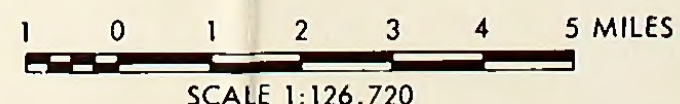
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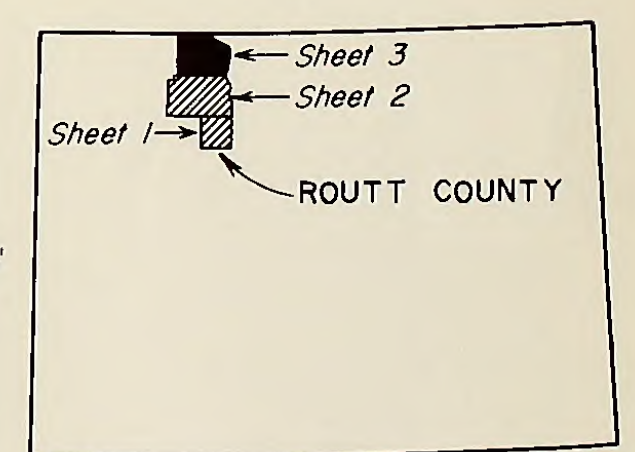
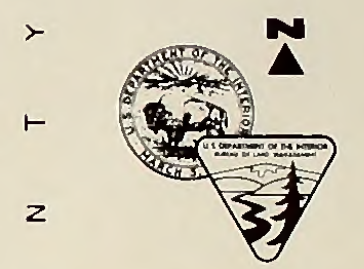
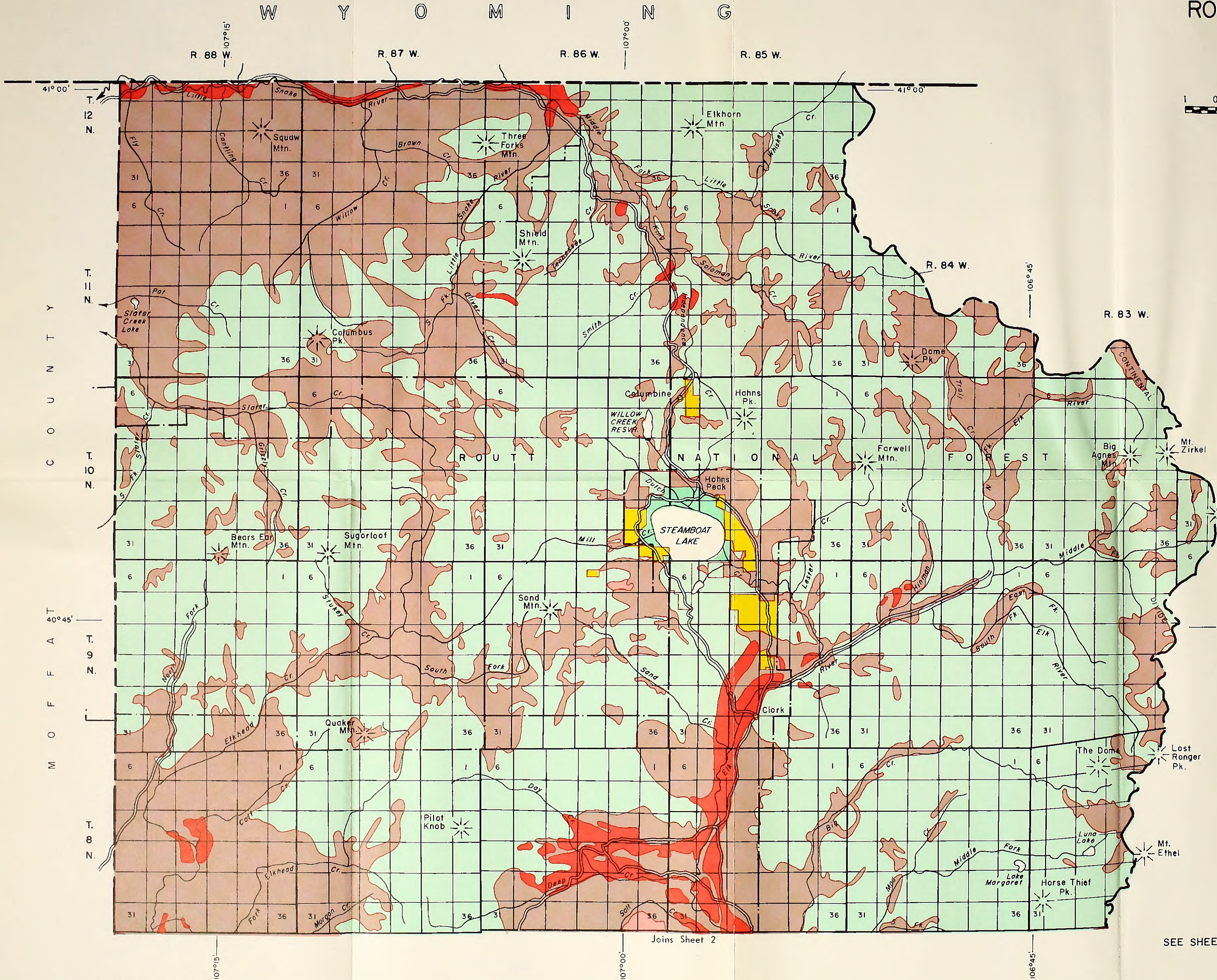
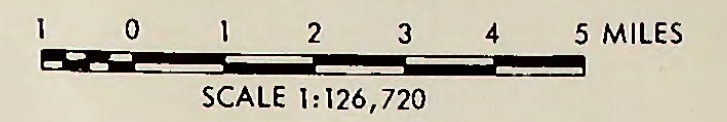
LAND USE MAP ROUTT COUNTY COLORADO

AUGUST 1975



LAND USE MAP ROUTT COUNTY COLORADO

AUGUST 1975

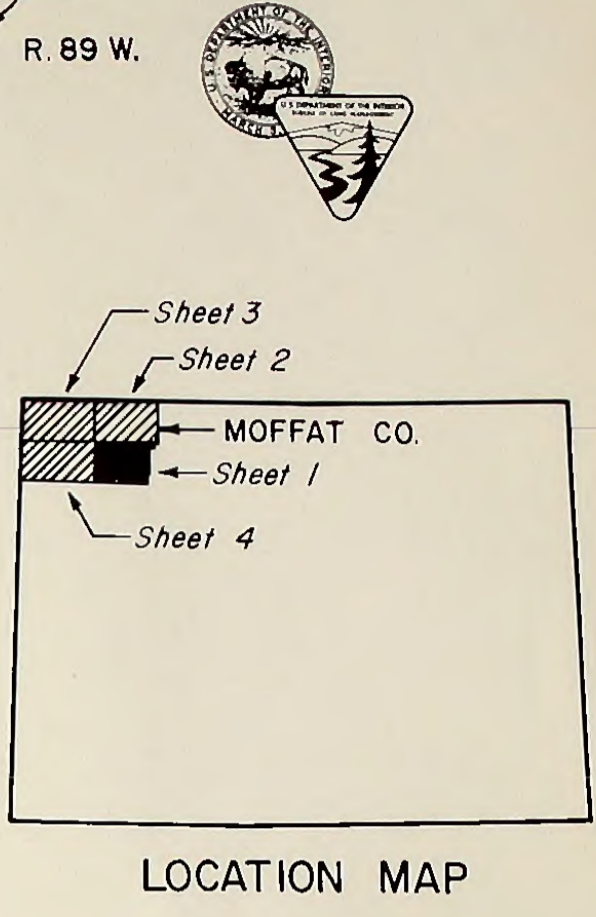
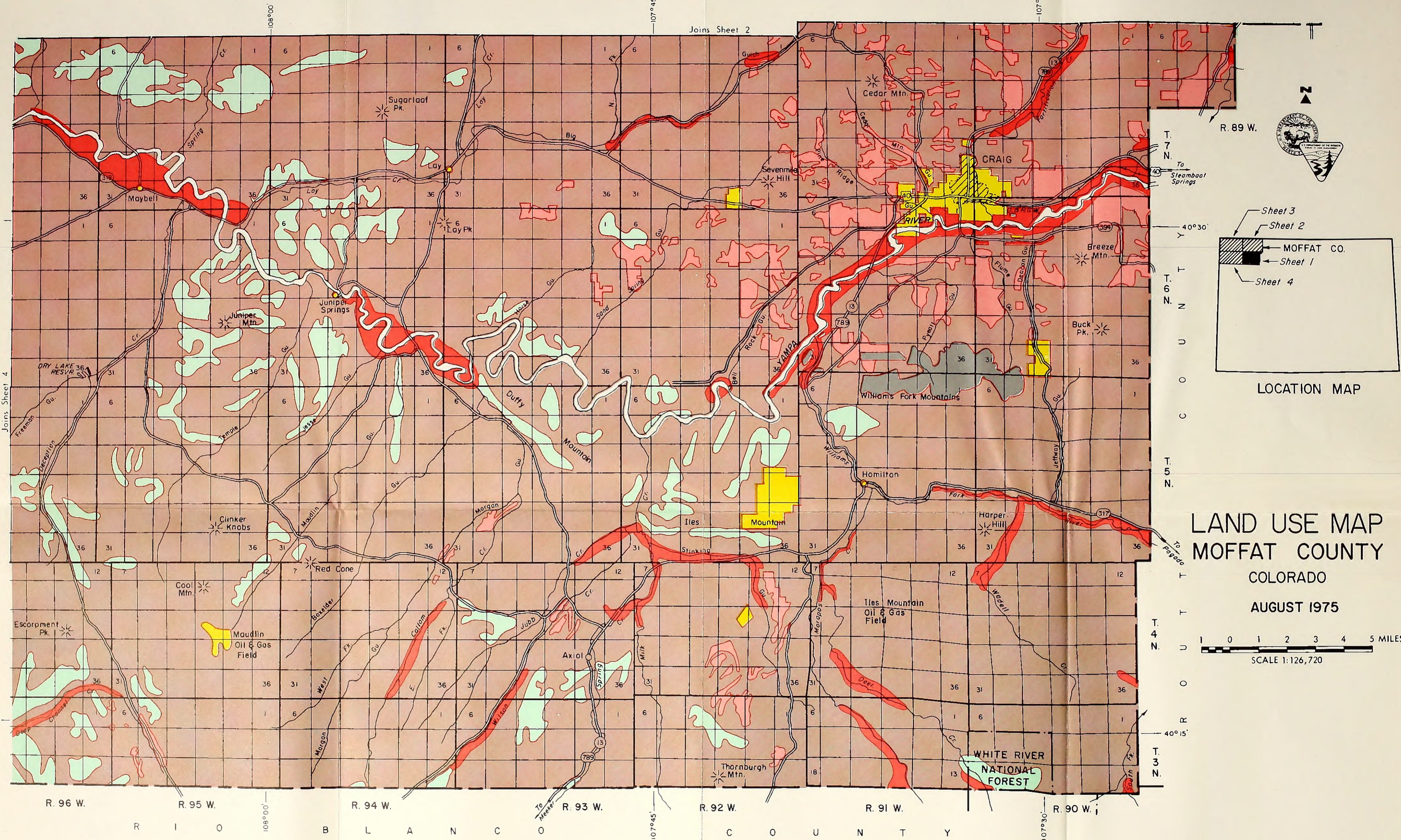


LOCATION MAP

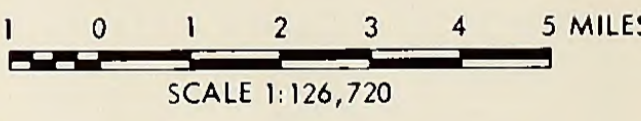
SEE SHEET ONE MOFFET COUNTY FOR LEGEND

M7-E -22527-54
Sheet 3 of 3




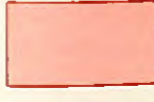




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**LAND USE MAP
MOFFAT COUNTY
COLORADO
AUGUST 1975**



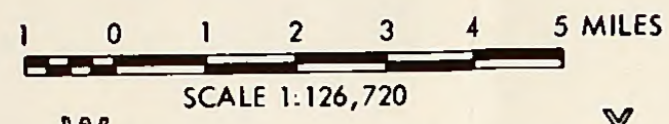
LEGEND

-  Irrigated Cropland, Pastureland, and Hayland
-  Urban Areas - Includes Industrial, Commercial, Residential, Transportation, Airports and Subdivisions (including planned developments)
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-  Non-Irrigated Cropland
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-  Minerals Development Area
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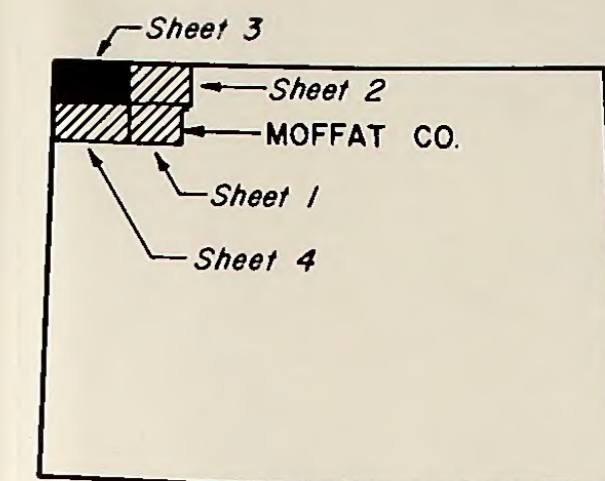
LAND USE MAP MOFFAT COUNTY

COLORADO

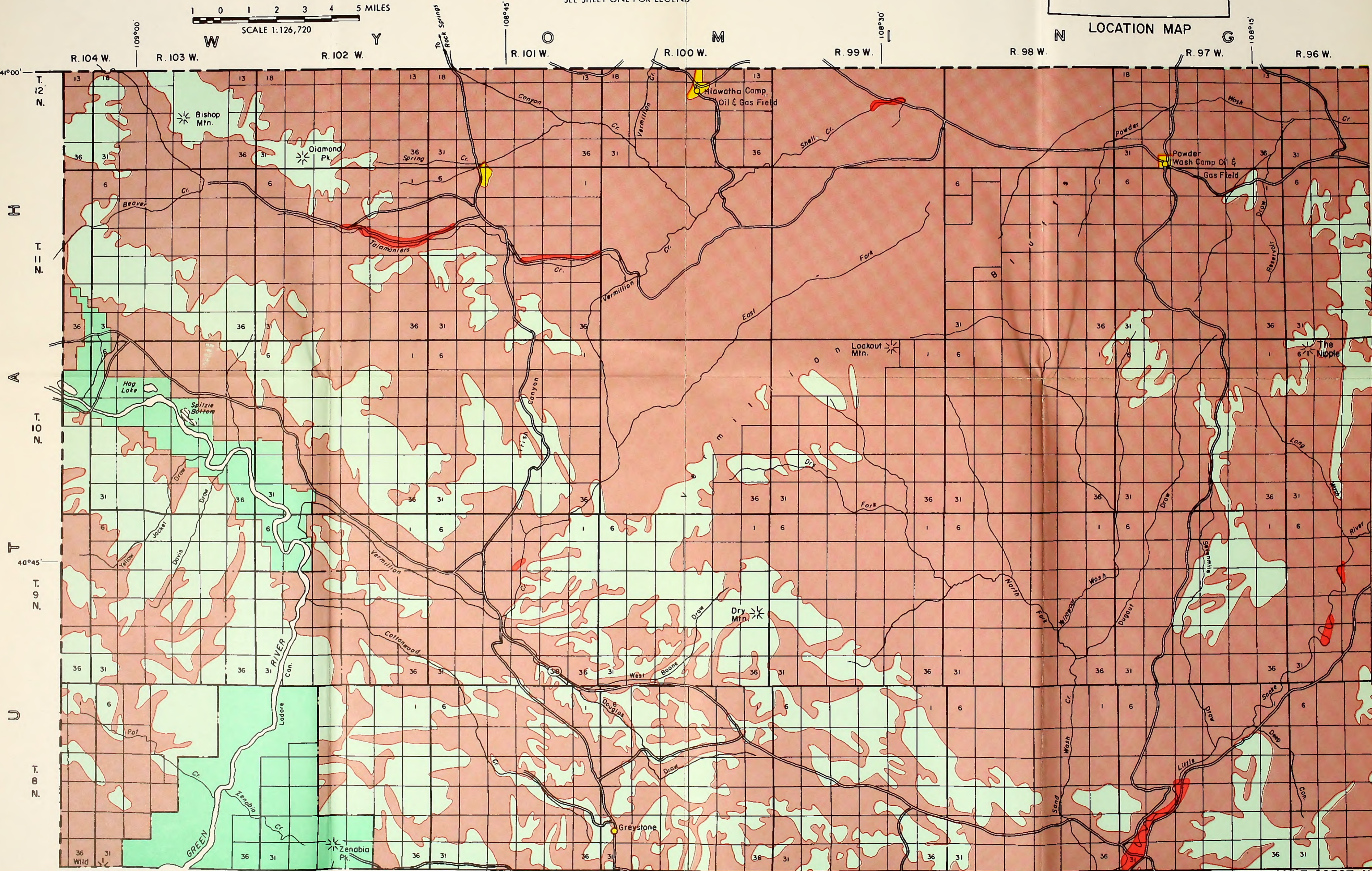
AUGUST 1975



SEE SHEET ONE FOR LEGEND

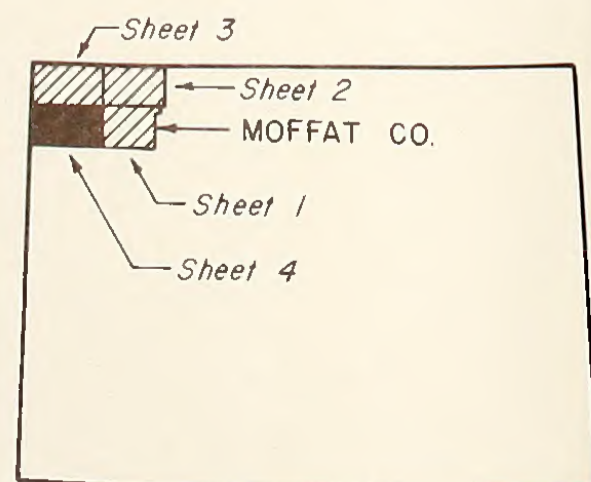
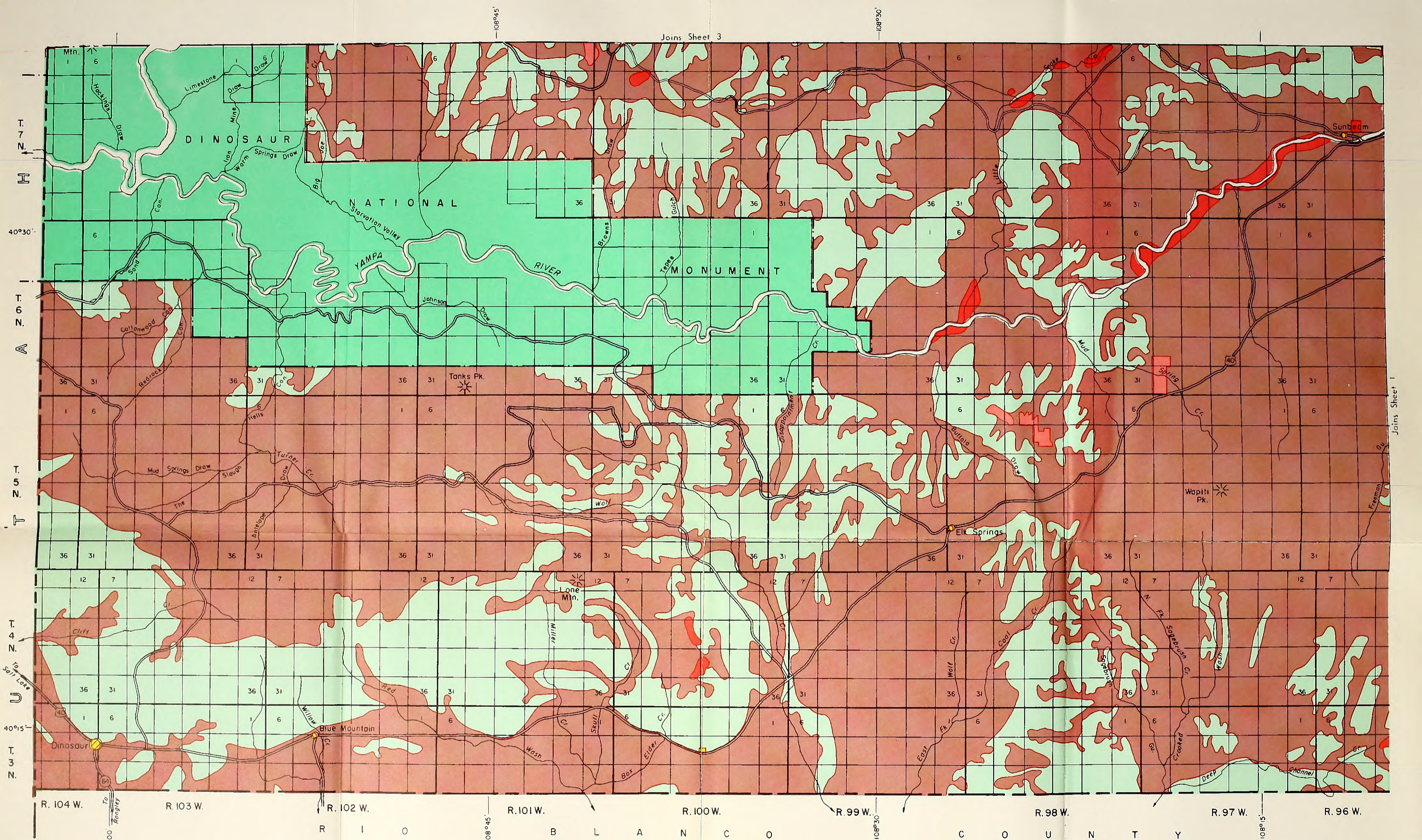


LOCATION MAP



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Joins Sheet 4



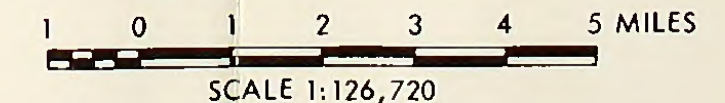
LOCATION MAP



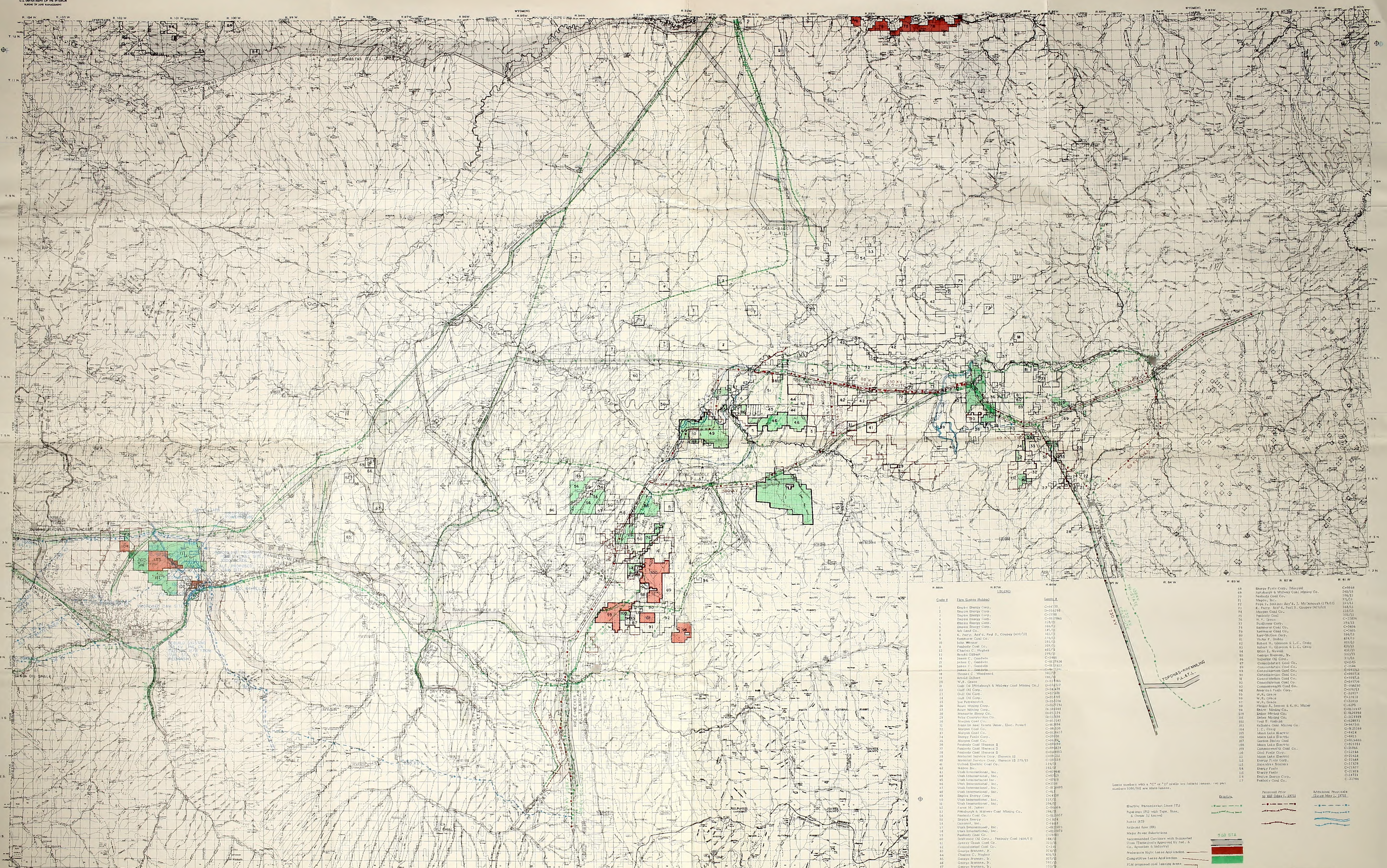
SEE SHEET ONE FOR LEGEND

LAND USE MAP
MOFFAT COUNTY
COLORADO

AUGUST 1975



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



Code #	Firm (lease holder)	Lease #	Code #	Firm (lease holder)	Lease #
1	Empire Energy Corp.	C-41371	64	Energy Fuels Corp. (Morgan)	C-95558
2	Empire Energy Corp.	C-51290	65	Harburg & Midway Coal Mining Co.	C-26613
3	Empire Energy Corp.	C-11801	70	Healdy Coal Co.	C-19673
4	Empire Energy Corp.	C-012845	71	Mapco, Inc.	C-14213
5	Empire Energy Corp.	16673	72	Parco, Inc. (Asst. S. J. McDonough (179/11))	C-19713
6	Ark Land Co.	18570	73	Parco, Inc. (Asst. S. J. McDonough (179/11))	C-19713
7	Ark Land Co.	17973	74	Mapco, Inc.	C-14213
8	Chalco Co. (Asst. S. J. Paul S. Cowley (410/11))	18570	75	Mapco, Inc.	C-14213
9	Kemper Coal Co.	18570	76	Mapco, Inc.	C-14213
10	John W. Meeker	18570	77	Mapco, Inc.	C-14213
11	Feasby Coal Co.	18570	78	Mapco, Inc.	C-14213
12	Chalco Co. (Asst. S. J. Paul S. Cowley (410/11))	18570	79	Mapco, Inc.	C-14213
13	Arnold Gilbert	18570	80	Mapco, Inc.	C-14213
14	James C. Goodwin	18570	81	Mapco, Inc.	C-14213
15	James C. Goodwin	18570	82	Mapco, Inc.	C-14213
16	James C. Goodwin	18570	83	Mapco, Inc.	C-14213
17	James C. Goodwin	18570	84	Mapco, Inc.	C-14213
18	James C. Goodwin	18570	85	Mapco, Inc.	C-14213
19	James C. Goodwin	18570	86	Mapco, Inc.	C-14213
20	W.R. Grace	D-01145	87	Mapco, Inc.	C-14213
21	Coal Oil (Huntingburg & Midway Coal Mining Co.)	D-01145	88	Mapco, Inc.	C-14213
22	Coal Oil Corp.	D-01145	89	Mapco, Inc.	C-14213
23	Coal Oil Corp.	D-01145	90	Mapco, Inc.	C-14213
24	Coal Oil Corp.	D-01145	91	Mapco, Inc.	C-14213
25	Coal Oil Corp.	D-01145	92	Mapco, Inc.	C-14213
26	Coal Oil Corp.	D-01145	93	Mapco, Inc.	C-14213
27	Coal Oil Corp.	D-01145	94	Mapco, Inc.	C-14213
28	Coal Oil Corp.	D-01145	95	Mapco, Inc.	C-14213
29	Coal Oil Corp.	D-01145	96	Mapco, Inc.	C-14213
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32	Coal Oil Corp.	D-01145	99	Mapco, Inc.	C-14213
33	Coal Oil Corp.	D-01145	100	Mapco, Inc.	C-14213
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47	Coal Oil Corp.	D-01145	114	Mapco, Inc.	C-14213
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50	Coal Oil Corp.	D-01145	117	Mapco, Inc.	C-14213
51	Coal Oil Corp.	D-01145			
52	Coal Oil Corp.	D-01145			
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55	Coal Oil Corp.	D-01145			
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63	Coal Oil Corp.	D-01145			
64	Coal Oil Corp.	D-01145			
65	Coal Oil Corp.	D-01145			
66	Coal Oil Corp.	D-01145			
67	Coal Oil Corp.	D-01145			

STUDY REGION MAP

EXPLANATION

(Refer to Table _____, for Descriptions of Geologic Formations)

UNCONSOLIDATED HOLOCENE DEPOSITS		Jm MORRISON FORMATION (UPPER JURASSIC)
Qa Alluvium		Mzu MESOZOIC ROCKS UNDIVIDED
Qe Eolian deposits		Kfd Frontier Sandstone and Mowry Shale Members of Mancoea Shale, and Dakota Sandstone
Ql LANDSLIDE DEPOSITS		KJdm Dakota and Morrison Formations
UNCONSOLIDATED PLEISTOCENE DEPOSITS		KJde Dakota, Morrison, Curtis, and Entrada Formations
Qg Young gravels		KJds Dakota, Morrison, and Sundance Formations
Qd Young glacial drift		Jmc Morrison and Curtis Formations
Qgo Old gravels and alluviums		Jmce Morrison, Curtis, and Entrada Formations
Qdo Old glacial drift		Jmcc Morrison, Curtis, Entrada, and Carmel Formations
Tg PREGLACIAL GRAVEL (PLIOCENE)		Jms Morrison and Sundance Formations
Tbp BROWNS PARK FORMATION (MIOCENE)		JFmg Morrison, Curtis, Entrada, and Glen Canyon Formations
Tbb BASALT OF BIMODAL VOLCANIC SUITE (PLIOCENE AND MIOCENE)		JFg GLEN CANYON SANDSTONE (LOWER JURASSIC AND UPPER TRIASSIC)
* Volcanic neck		Tc CHINLE FORMATION (UPPER TRIASSIC)
Tui UPPER TERTIARY INTRUSIVE ROCKS (PLIOCENE AND MIOCENE)		Tm MOENKOPI FORMATION (LOWER TRIASSIC)
+++ Dike or sill		Tr CHINLE AND CHUGWATER FORMATIONS
Tv VOLCANIC ROCKS (PLIOCENE, MIOCENE, AND OLIGOCENE)		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
Tos OLIGOCENE(?) SEDIMENTARY ROCKS		TPcs CHINLE AND STATE BRIDGE FORMATIONS
Tb BRIOECER FORMATION (EOCENE)		Pp PARK CITY FORMATION (PERMIAN)
Tw UINTA FORMATION (EOCENE)		TPcp CHINLE, MOENKOPI, AND PARK CITY FORMATIONS
Tg CREEN RIVER FORMATION (EOCENE)		PPvm WEBER SANDSTONE AND MAROON FORMATION
Tgp Parachute Creek Member		PPw WEBER SANDSTONE
Tgl Lower part		Pm MINTURN FORMATION (PENNSYLVANIAN) OR MORGAN FORMATION (PENNSYLVANIAN)
Tglm Laney Member		Pe EAGLE VALLEY EVAPORITE (PENNSYLVANIAN)
Tgt Tipton Tongue		Mr Mississippian rocks
Tglu Luman Tongue		MDGr MISSISSIPPIAN, DEVONIAN, AND CAMBRIAN ROCKS
WASATCH FORMATION (EOCENE)		MGr MISSISSIPPIAN AND CAMBRIAN ROCKS
Twc Cathedral Bluffs Tongue		Gr Cambrian rocks
Tw Main body		Ga SAWATCH QUARTZITE (CAMBRIAN)
Twm Niland Tongue		Yg GRANITIC ROCKS (PRECAMBRIAN Y)
Tf PORT UNION FORMATION (PALEOCENE)		Yw UINTA MOUNTAIN GROUP (PRECAMBRIAN Y)
OHIO CREEK FORMATION (PALEOCENE)		PRECAMBRIAN X
Two WASATCH AND OHIO CREEK FORMATIONS		Xg Granitic rocks
Kl LANCE FORMATION (UPPER CRETACEOUS)		Xm Mafic intrusive rocks
Kls LEWIS SHALE (UPPER CRETACEOUS)		Xfh INTERLAYERED FELSIC AND HORNBLENDIC GNEISSES (PRECAMBRIAN X)
Kmv MESAVERDE GROUP UNDIVIDED (UPPER CRETACEOUS)		Xb BIOTITIC GNEISSES AND MIGMATITE (PRECAMBRIAN X)
Kmvw Upper part		Xq RED CREEK QUARTZITE (PRECAMBRIAN X)
Kw Williams Fork Formation		
Kf Iles Formation		
Km MANCOS SHALE (UPPER AND LOWER CRETACEOUS)		
Kmfm Frontier Sandstone and Mowry Shale Members and intervening shale		
Kd DAKOTA SANDSTONE (LOWER CRETACEOUS)		

————— Contact

————— Fault—dotted where concealed, bar and ball on downthrown side

▲▲▲▲▲ Thrust fault—dotted where concealed. Sawteeth on upper plate

~~~~~ Precambrian shear zone

————— Crest of anticline—dotted where concealed

————— Trough of syncline—dotted where concealed

————— Overturned syncline

————— Line of steep dip in monocline—dotted where concealed

..... Concealed monocline







OWNER'S CARD

88041581

N67 1976 v.6

Northwest Colorado coal :  
draft environmental

OFFICE

DATE  
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(Continued on reverse)

TD 195 .C58 N67 1976 v.6

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draft environmental

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