

APPENDIX C

Assessment of Coal Lease Payment Options

OTA examined a range of options that require payments as a precondition for lifting the section 3 disqualification from a noncomplying leaseholder. OTA used a standard engineering-accounting method to calculate the after tax net present cost of each option for two model lease tracts, an underground mine in Utah and a surface mine in the Powder River Basin of Wyoming. The tract characteristics were chosen to be representative of a lease tracts that could be used to sustain new mining operations in these regions. The trait characteristics are summarized below. The options were originally selected in May 1985, based upon various proposals that were then circulating: additional holding fees were analyzed in Fall 1985 to include the more significant payment requirements of later proposals. The revised analysis is included in Chapter 4.

The payment options are summarized below.

Delay Rental: A non-recoupable annual payment for the privilege of deferring development of the property which could be avoided by relinquishing the lease or beginning production. This payment would begin immediately and stop upon production. (These payments can be expensed or capitalized at the payor's option for tax purposes.)

Several variations of delay rental payments were costed out:

Option 1: Acreage-based delay rental

- (a) \$1 per acre
- (b) \$5 per acre

Option 2: Reserves-based delay rental, fixed rate

- (a) \$0.0001 per ton on 1% of reserves
- (b) \$0.001 per ton on 1% of reserves
- (c) \$0.0001 per ton increasing annually by \$0.0001 to a cap of \$0.001

Option 3: Reserves-based delay rental, ad valorem rate

- (a) 0.5% of value on 1% of recoverable reserves, constant Price
- (b) 0.5% of value on 1% of reserves with 4% annual price increase

Minimum Royalty: A substantially uniform annual payment in the absence of mineral production. The payment is imposed on readjustment which is assumed to occur in year 5. The payment is recoupable. For tax purposes it can be expensed in the year paid.

Option 4: Minimum Royalty, Reserves-based, Fixed rate

- (a) \$0.0001 per ton on 1% of recoverable reserves
- (b) \$0.001 per ton on 1% of recoverable reserves

Option 5: Minimum royalty, Reserves-based, ad valorem rate

- (a) 0.5% of value, 1% reserves, constant price
- (b) 0.5% of value, 1% reserves, 4% annual price increase

Advance Royalty: Payment begins immediately and ends on production. The payment is nonrecoupable. For tax purposes, we assume it is capitalized and that cost depletion is used. (We note that it is more likely that percentage depletion might be used, it is not used here as it would not directly reflect the impact of the holding fee.)

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- Option 6: Advance Royalty- Reserves based - fixed rate
- (a) \$0.0001 per ton on 1% of reserves
 - (b) \$0.001 per ton on 1% of reserves
 - (c) \$0.0001 escalating annually by \$0.0001 to a cap of \$0.001
- Option 7: Advance Royalty - Reserves based - ad valorem rate
- (a) \$0.5% of value on 1% of reserves, constant price
 - (b) \$0.5% of value on 1% of reserves, 4% annual price increase

Several additional options have since been analyzed using the programs developed for this study.

Characteristics of Tracts Used in OTA Analysis of Holding Fees

Wyoming Lease:

Powder River Basin
 Surface mine
 2000 acres
 200 million tons of reserves
 60 foot seam
 8500 BTU/lb., 0.58% sulfur, 6% ash
 5 million tons per year
 Recovery rate 90%
 Mine life 40 years
 F.O.B. mine price \$7.60 (contract)
 Readjustment in year 5
 Federal royalty 12.5%
 Production begins in year 10

Utah Lease

Uinta Region
 Underground Mine
 2000 acres
 21.6 million tons of reserves
 12 foot seam
 11,500 BTU/lb., 0.5% sulfur, 9% ash
 500,000 tons per year
 Recovery rate 50%
 Mine life 40 years
 F.O.B. mine price \$26.00 (contract)
 Readjustment in year 5
 Federal royalty 8%
 Production begins in year 10

TABLE A-2
ANALYSIS OF HOLDING FEE OPTIONS
 After Tax Net Present Cost to Lessee

	WYOMI NG	UTAH
<u>Delay Rental</u>		
1 (a) \$1/ac	\$7,030	\$7,030
1 (b) \$5/ac	\$35,100	\$35,100
2(a) \$0.0001/ton on 1% reserves	\$632	\$76
2(b) \$0.001/ton on 1% reserves	\$6,320	\$760
2(c) escalating \$0.0001-0.001 on 1% reserves	\$2,140	\$255
3(a) 0.5% value on 1% reserves constant price	\$240,000	\$98,700
3(b) 0.5% value on 1% reserves 4% Annual increase	\$276,000	\$113,000
<u>Minimum Royalty</u>		
4(a) \$0.0001/ton on 1% reserves	\$54	\$6
4(b) \$0.001/ton on 1% reserves	\$540	\$60
5(a) 0.5% value on 1% reserves constant price	\$20,700	\$8,480
5(b) 0.5% value on 1% reserves 4% Annual increase	\$27,100	\$11,100
<u>Advance Royalty</u>		
6(a) \$0.0001/ton on 1% reserves	\$839	\$104
6(b) \$0.001/ton on 1% reserves	\$8,390	\$1,040
6(c) escalating \$0.0001-0.001 on 1% reserves	\$2,704	\$342
7(a) 0.5% value on 1% reserves constant price	\$319,000	\$135,000
7(b) 0.5% value on 1% reserves 4% Annual increase	\$381,000	\$137,000
<u>Mining SubComm Draft</u>		
(a) \$0.001/ton/yr	\$632,365	%75,883
(b) \$0.01/ton/yr	\$6,323,654	\$758,837

FEDERAL COAL LESSEES AND THEIR PARENT COMPANIES

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LESSEE	PARENT #1	BUS. CAT.	PARENT #2	BUS. CAT.	LEASES	ACRES RECOV.	RES.
AMCA Coal Leasing, Inc.	AMCA Resources	coal			6	2532	31.85
Abston Construction Co.	Abston Construction Co.	coal			1	638	1.17
Alabama Electric Coop.	Alabama Electric Coop.	utility			1	198	0.06
Alaska State Bank	Alaska State Bank	other			1	600	0.00
American Colloid Co.	American Colloid Co.	other			1	80	2.28
American Minority Mining	American Minority Mining	other			1	400	1.80
Ametex Corp.	Ametex Corp.	other			2	280	0.49
Anchor Coal Co.	Fluor Corp.	other			1	280	5.34
Antelope Coal Co.	Pacific Power & Light Co.	utility			2	4777	266.70
Apex Mining Company, Inc.	Apex Mining Company, Inc.	coal			2	240	0.52
Ark Land Co.	Ashland Oil Co.	o&g			14	16223	61.34
Atlantic Richfield Co.	Atlantic Richfield Co.	oil major	Hunt Enterprises	o&g	3	7419	196.43
Bank of America	BankAmerica Corp.	other			4	6872	135.59
Basin Cooperative Services	Basin Cooperative Services	utility			3	2425	28.10
Bass, R. & Bass Trusts	Bass, R. & Bass Trusts	other			1	20701	242.10
Baukol-Noonan, Inc.	Baukol-Noonan, Inc.	coal			1	2325	40.63
Beaver Creek Coal Co.	Atlantic Richfield Co.	oil major			7	5494	93.54
Belco Petroleum Corp.	Internorth Corp.	nat gas			1	4551	215.80
Bell, J.	Internorth Corp.	indivd			1	80	0.05
Big Horn Coal Co.	Peter Kiewit Sons, Inc.	other			2	440	27.80
Bishopsgate Coal Corp.	Bishopsgate Coal Corp.	coal			1	161	0.84
Black Butte Coal Co.	Peter Kiewit Sons, Inc.	other	Union Pacific Corp.	other	11	14902	74.00
Blackhawk Coal Co.	American Electric Power Co.	utility			11	12698	250.00
Bokoshe Coal Company	K & R Coal Co.	coal			1	80	0.13
Bonsness, L.	Bonsness, L.	indivd			1	80	0.16
Bridger Coal Co.	Pacific Power & Light Co.	utility			3	8436	329.80
Brigham Young University	Brigham Young University	other			3	277	1.54
Bugni, A.	Bugni, A.	indivd			1	80	0.00
Bugni, T. & R.	Bugni, A. & T.	indivd			1	80	0.00
CF&I Steel Corp.	Crane Co.	other			1	3470	5.40
COP Coal Development Co.	COP Coal Development Co.	coal			2	1480	19.39
CPS Mining Co, Inc.	CPS Mining Co, Inc.	other			1	538	0.30
California Portland Cement Co.	California Portland Cement Co.	other			1	1548	21.36
Cameron Coal Co.	Cameron Coal Co.	coal			3	4464	14.83
Capital Development Co.	Capital Development Co.	other			1	1832	7.80
Carbon Coal	Hamilton Bros. JT. Venture	o&g			1	160	0.48
Cari International Mining Corp	Cari International Mining Corp	other	Property Hold ng Co. of A	other	1	360	1.31
Carroll County Coal Co.	Carroll County Coal Co.	other			1	412	18.38
Chapman, R.	Chapman, R.	indivd			1	1675	17.60
Chevron Coal Development Co.	Chevron Corp.	oil major			1	674	110.00
China Butte Coal Co.	China Butte Coal Co.	other			1	5974	62.73
Clinchfield Coal	Pittston Coal Co.	coal			1	251	0.30
Coastal States Energy Co.	The Coastal Corp.	nat gas			10	13299	78.30
Colorado Westmoreland, Inc.	Westmoreland Coal Co	coal			4	6443	46.91
Colorado Yampa Coal Co.	Texaco, Inc.	oil major			1	274	0.73
Colonyo Coal Co.	W.R. Grace & Co.	nrrd			2	2590	146.70
Conotton Land Co.	Cravat Coal Co.	coal	Hanna Mining Corp	m&m	2	400	1.50
Consoll Land Development	DuPont	nrrd			1	1895	48.70
Consolidation Coal Co.	DuPont	nrrd			34	57531	1086.24
Corp. of the Presiding Bishop	Corp. of the Presiding B shop	other			3	3045	0.00

FEDERAL COAL LESSEES AND THEIR PARENT COMPANIES

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LESSEE	PARENT #1	BUS. CAT.	PARENT #2	BUS. CAT.	LEASES	ACRES RECOV.	RES.
Israel, J. J.	Israel, J. J.	indivd			1	80	0.07
Jennings, James Sanders	Jennings, James Sanders	indivd			1	40	0.39
Johnson, G. & A.	Johnson, G. & A.	indivd			1	80	0.20
K&R Coal Co.	K&R Coal Co.	coal			1	1180	5.09
Kaiser Steel Corp.	Kaiser Steel Corp.	steel			10	15093	86.58
Kanawha Hocking Coal & Coke	Quaker State Oil Refining Co.	o&g			6	8767	347.22
Kerr Coal Co.	Centurion Trust	other			1	770	4.90
Kerr-McCee Coal Co.	Kerr-McCee Corp.	o&g			5	8695	735.70
King Cannel Coal Co.	King Cannel Coal Co.	other			1	240	1.18
Kingston, C. & J.	Kingston, C. & J.	indivd			1	120	1.45
Knife River Coal Co.	Montana-Dakota Utilities	utility			6	9024	145.03
Kukuchka, C. & W.	Kukuchka, C. & W.	indivd			1	40	0.00
LEECO	Kaneb Services	other			1	362	0.60
Lombardi, P.	Lombardi, P.	indivd			1	80	0.08
Lone Star Steel Co.	Northwest Industries, Inc.	other			8	11090	17.84
Loveless, Robert M.	Loveless, Robert M.	indivd			1	2560	0.00
Malapai Resources Co.	Arizona Public Service Co.	utility			21	40276	345.23
Martin, J., trustee	Martin, J., trustee	other			1	40	0.17
Martinez, A.	Martinez, A.	indivd			1	40	0.14
Material Service Corp.	General Dynamics Corp.	nrrd			2	4842	18.30
McKinnon Trusts	McKinnon Marital & Resid. Tr.	other			5	8672	96.52
Meadowlark Farms, Inc.	Amax, Inc.	m&m			6	9038	1261.10
Medicine Bow Coal Co.	Ashland Oil Co.	o&g	Hunt Enterprises		3	7011	17.90
Mid-Continent Limestone Co.	Pitkin Iron Corp.	coal			3	2020	14.54
Mid-Continent Resources Corp.	Mid-Continent Resources Corp.	coal			9	7479	62.50
Mining Systems Corp.	Standard Equipment, Inc.	other			1	680	0.32
Mobil Coal Resources Co.	Mobil Corp.	oil major			2	3959	424.50
Mono Power Co.	Southern California Edison	utility			21	40276	345.23
Monolith Portland Cement Co.	Monolith Portland Cement Co.	other			1	173	9.43
Montana Royalty Co.	Peter Kiewit Sons, Inc.	other			1	40	0.00
Mountain States Resource Corp.	Mountain States Resource Corp.	other			2	11387	103.37
National King Coal Co.	National King Coal	coal			1	160	2.44
National King Coal, Inc.	National King Coal	coal			1	180	0.00
Neil Butte Co.	Ranchers Energy Co.	other			1	3238	170.00
Nevada Electric Investment Co.	Nevada Power Co.	utility			8	10375	0.00
New Albion Resources Co.	San Diego Gas & Electric Co.	utility			21	40276	345.23
North American Coal Co.	North American Coal Corp.	coal			3	2178	3.53
North Antelope Coal Co.	Peabody Holding Co.	peabody	Panhandle Eastern Pipeline Co.	nat gas	2	1360	132.15
North Central Energy Co.	K-N Energy, Inc.	nat gas			1	962	17.05
Northern Minerals Co.	Internorth Corp.	nat gas			5	3262	48.32
Northwest Carbon Co.	Williams Companies	nat gas			1	400	14.25
Northwest Mutual Life Ins. Co.	Northwest Mutual Life Ins. Co.	other			1	4856	445.00
Northwestern Resources Co.	Montana Power Co.	utility			1	120	0.90
P.I.I. West Ltd.	Petroleum International, Inc.	o&g	Westhoff Brothers, Inc.	other	2	6182	12.11
Pacific Power & Light Co.	Pacific Power & Light Co.	utility			13	14262	78.65
Padilla, F.	Padilla, F.	indivd			2	160	0.78
Paragon Resources Co.	Public Service Co. of NM	utility			5	10239	109.71
Peabody Coal Co.	Peabody Holding Co.	peabody			26	50678	1281.38
Perma Mining Corp.	Perma Resources Corp.	coal			1	90	0.00
Peter Kiewit Sons, Inc.	Peter Kiewit Sons, Inc.	other			1	524	40.00

FEDERAL COAL LESSEES AND THEIR PARENT COMPANIES

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LESSEE	PAREN'	BUS. CA'.	PARENT #2	BUS. CAT.	EASES	ACRES	RECOV.	RES.
Phillips Petroleum Corp.	Phillips Petroleum Corp.	oil major			3	3580	268.00	
Pitkin Iron Corp.	Pitkin Iron Corp.	m&m	NICOR, Inc.	nat gas	1	40	0.00	
Powder River Coal Co.	Peabody Holding Co.	peabody			2	2600	95.00	
Powderhorn Properties Co.	Eastern Gas & Fuel Associates	other	NICOR, nc.	nat gas	6	8524	81.96	
Rasmussen, A. & V.	Rasmussen, A. & V.	individ			1	40	0.15	
Read, Edwin C.	Read, Edwin C.	individ			1	2560	0.00	
Reese, Thomas E. & Dixie	Reese, Thomas E.	individ			1	80	0.00	
Republic Steel Corp.	Republic Steel Corp.	steel			2	3536	9.50	
Resource Development Co.	Pacific Power & Light Co.	utility			5	4311	130.00	
Resource Exploration & Mining	Resource Exploration & Mining	coal			1	80	1.40	
Riebold, P.	Riebold, P.	individ			1	1675	17.60	
River Processing, Inc.	Reliance Group Holdings, Inc.	other			1	197	0.37	
Rosebud Coal Sales Co.	Peter Kiewit Sons, Inc.	other			3	6481	35.96	
Royal Land Co.	Standard Oil (Ohio) Co.	oil major			1	2571	67.14	
Ruby Construction Co.	Ruby Construction Co.	other			1	146	1.40	
Ryans Creek Coal Co.	Ryans Creek Coal Co.	coal			2	2240	5.30	
Salt Creek Mining Co.	Occidental Petroleum Corp.	oil major	Colorado Ute Electr c Asso.	ut lity	6	14929	119.59	
San Juan Coal Co.	Broken Hill Proprietary Ltd.	m&m			1	2044	60.00	
Santa Fe Mining Co.	Santa Fe Industries, Co.	other			2	161	0.43	
Shell Oil Corp.	Shell Oil Corp.	oil major			4	6827	641.50	
Sheridan Enterprises, Inc.	Occidental Petroleum Corp.	oil major			1	160	0.65	
Simmons, J.	Simmons, J.	individ			1	80	0.04	
Smith & Peavley Co.	Smith & Peavley Co.	coal			1	1282	0.75	
Smith-Holliday Associates	Smith-Holliday Associates	other			1	80	1.25	
Snowmass Coal Co.	Eastern Gas & Fuel Associates	other	N	nat gas	2	4882	55.08	
Soldier Creek Coal Co.	California Portland Cement Co.	oil major	nc.		1	400	0.00	
Sorenson Resources Co.	Sorenson Resources Co.	other			3	6400	42.76	
Spring Creek Coal Co.	Pacific Power & Light Co.	utility			1	2347	243.00	
Stovall, Billy Gene	Stovall, Billy Gene	individ			1	521	0.72	
Sunland Mining Corp.	Pyro Energy Co.	o&g			2	240	0.90	
Sunoco Energy Development Co.	The Sun Co.	oil major			7	15148	643.62	
Swanton Energy Resources Co.	Swanton Corp.	other			16	27658	360.77	
Sweetwater Resources, Inc.	Monsanto Corp.	nrrd			2	16432	76.60	
Texaco, Inc.	Texaco, Inc.	oil major			5	9417	800.50	
Texas Energy Services, Inc.	Kaneb Services	other			1	4856	445.00	
The Pacola Co.	The Pacola Co.	coal			1	960	0.00	
Thermal Energy Co.	Washington Energy Co.	nat gas			1	2096	178.00	
Thermal Energy Co.	Thermal Energy Co.	o&g			1	6336	38.44	
Thompson Creek Coal & Coke Co.	Thompson Creek Coal & Coke Co.	coal			1	120	1.00	
Thunder Basin Coal Co.	Atlantic Richfield Co.	oil major			3	11690	952.10	
U.S. Steel Corp.	U.S. Steel Corp.	steel			19	20373	438.47	
Union Pacific Corp.	Union Pacific Corp.	other	Hunt Enterpr ses	o&g	2	2568	17.90	
United States Fuel Co.	Sharon Steel Corp.	steel			3	5726	36.20	
Utah International, Inc.	Broken Hill Proprietary Ltd.	nrrd			25	23105	818.82	
Utah Power & Light Co.	Utah Power & Light Co.	utility			15	28309	219.88	
Valencia Energy Co.	Tucson Electric Company	utility			4	9311	109.71	
W.A. Land Company	Houston Natural Gas Co.	nat gas			2	920	0.00	

FEDERAL COAL LESSEES AND THEIR PARENT COMPANIES						
LESSEE	PARENT #1	BUS. CAT.	PARENT #2	BUS CAT.	LEASES	ACRES RECOV. RES.
W.K. Minerals, Inc.	Diamond Shamrock Corp.	nrrd			1	642
W.R. Grace & Co.	W.R. Grace & Co.	nrrd			1	3863
Wasatch Coal Co.	Wasatch Coal Co.	coal			1	280
Washington Irrigation & Develo	Washington Water Power Co.	utility			2	521
Weaver, H. & O.	Weaver, H. & O.	indivd			1	80
Weich, E. & Wiggins, S.	Weich, E. & Wiggins, S.	indivd			1	120
West, S.	West, S.	indivd			1	961
Western Energy Co.	Montana Power Co.	utility			8	13003
Western Fuels-Utah, Inc.	Western Fuels Association	utility			5	6441
Western Slope Carbon, Inc.	Williams Companies	nat gas			4	1539
Wilberg, C.	Wilberg, C.	indivd			1	80
Williams, Jerry	Williams, Jerry	indivd			3	3012
Winton Coal Co.	Union Pacific Corp.	other			1	1645
Wyodak Resources Dev. Corp.	Black Hills Power & Light Co.	utility			6	2240
Wyoming Fuel Co.	X-N Energy, Inc.	nat gas			2	466
						1.94

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FEDERAL COAL LESSEES						
PARENT COMPANIES AND LEASEHOLDING SUBSIDIARIES						
PARENT	LESSEE	BUS. CAT.	LEASES	ACRES RECOV.	RES	
AMCA Resources	AMCA Coal Leasing, Inc.	coal	6	2532	31.85	
Abston Construction Co.	Abston Construction Co.	coal	1	638	1.17	
Alabama Electric Coop.	Alabama Electric Coop.	utility	1	198	0.06	
Alaska State Bank	Alaska State Bank	other	1	600	0.00	
Anax, Inc.	Meadowlark Farms, Inc.	m&m	6	9038	1261.10	
American Colloid Co.	American Colloid Co.	other	1	80	2.28	
American Electric Power Co.	Blackhawk Coal Co.	utility	11	12698	250.00	
American Electric Power Co.	Franklin Real Estate Co.	utility	1	634	3.35	
American Minority Mining	American Minority Mining	other	1	400	1.80	
Ametex Corp.	Ametex Corp.	other	2	280	0.49	
Apex Mining Company, Inc.	Apex Mining Company, Inc.	coal	2	240	0.52	
Arizona Public Service Co.	Malapai Resources Co.	utility	21	40276	345.23	
Armco Steel Corp.	Evans Coal Co.	steel	11	17857	54.72	
Ashland Oil Co.	Ark Land Co.	o&g	14	16223	61.34	
Ashland Oil Co.	Medicine Bow Coal Co.	o&g	3	7011	17.90	
Atlantic Richfield Co.	Atlantic Richfield Co.	oil major	3	7419	196.43	
Atlantic Richfield Co.	Beaver Creek Coal Co.	oil major	7	5494	93.54	
Atlantic Richfield Co.	Thunder Basin Coal Co.	oil major	3	11690	952.10	
BankAmerica Corp.	Bank of America	other	4	6872	135.59	
Basin Cooperative Services	Basin Cooperative Services	utility	3	2425	28.10	
Bass, R. & Bass Trusts	Bass, R. & Bass Trusts	other	1	20701	242.10	
Baukol-Noonan, Inc.	Baukol-Noonan, Inc.	coal	1	2325	40.63	
Bell, J.	Bell, J.	indivd	1	80	0.05	
Bishopsgate Coal Corp.	Bishopsgate Coal Corp.	coal	1	161	0.84	
Black Hills Power & Light Co.	Wyodak Resources Dev. Corp.	utility	6	2240	186.10	
Bonsness, L.	Bonsness, L.	indivd	1	80	0.16	
Brigham Young University	Brigham Young University	other	3	277	1.54	
Broken Hill Proprietary Ltd.	Energy Reserves Group, Inc.	m&m	4	7849	51.70	
Broken Hill Proprietary Ltd.	San Juan Coal Co.	m&m	1	2044	60.00	
Broken Hill Proprietary Ltd.	Utah International, Inc.	nrrd	25	23105	818.82	
Bugni, A.	Bugni, A.	indivd	1	80	0.00	
Bugni, A. & T.	Bugni, T. & R.	indivd	1	80	0.00	
COP Coal Development Co.	COP Coal Development Co.	coal	2	1480	19.39	
CPS Mining Co, Inc.	CPS Mining Co, Inc.	other	1	538	0.30	
California Portland Cement Co.	California Portland Cement Co.	other	1	1548	21.36	
California Portland Cement Co.	Soldier Creek Coal Co.	oil major	1	400	0.00	
Cameron Coal Co.	Cameron Coal Co.	coal	3	4464	14.83	
Capital Development Co.	Capital Development Co.	other	1	1832	7.80	
Cari International Mining Corp	Cari International Mining Corp	other	1	360	1.31	
Carroll County Coal Co.	Carroll County Coal Co.	other	1	412	18.38	
Centurion Trust	Kerr Coal Co.	other	1	770	4.90	
Chapman, R.	Chapman, R.	indivd	1	1675	17.60	
Chevron Corp.	Chevron Coal Development Co.	oil major	1	674	110.00	
Chevron Corp.	Gulf Oil Corp.	oil major	40	58866	803.74	
China Butte Coal Co.	China Butte Coal Co.	other	1	5974	62.73	
Colorado-Ute Electric Asso.	Salt Creek Mining Co.	utility	6	14929	119.59	
Commonwealth Edison	Edison Development Co.	utility	1	7066	103.00	
Corp. of the Presiding Bishop	Corp. of the Presiding Bishop	other	3	3045	0.00	
Crane Co.	Cf&I Steel Corp.	other	1	3470	5.40	

FEDERAL COAL LESSEES
PARENT COMPANIES AND LEASEHOLDING SUBSIDIARIES

PARENT	LESSEE	BUS. CAT.	LEASES	ACRES RECOV.	RES.
Cravat Coal Co.	Conotton Land Co.	coal	2	400	1.50
Danson Oil Corp.	Dorchester Coal Co.	o&g	3	14729	117.70
Davis, R.	Davis, R.	other	1	40	0.07
Denton, C.	Denton, C.	indivd	1	80	0.30
Diamond Shamrock Corp.	W.K. Minerals, Inc.	nrrd	1	642	4.75
Divide Coal Mining Co.	Divide Coal Mining Co.	coal	1	80	0.80
DuPont	Consol Land Development	nrrd	1	1895	48.70
DuPont	Consolidation Coal Co.	nrrd	34	57531	1086.24
Eastern Gas & Fuel Associates	Eastern Coal Properties, Inc.	other	1	1910	33.62
Eastern Gas & Fuel Associates	Grand Mesa Properties Co.	other	2	1266	20.46
Eastern Gas & Fuel Associates	Powderhorn Properties Co.	other	6	8524	81.96
Eastern Gas & Fuel Associates	Snowmass Coal Co.	other	2	4882	55.08
Emery Energy, Inc.	Emery Energy, Inc.	coal	1	3795	20.30
Equipment Rental Service	Equipment Rental Service	other	1	480	0.00
Exxon Corp.	Exxon Coal Resources USA, Inc.	oil major	2	2200	0.00
Exxon Corp.	Exxon Coal USA	oil major	3	11057	1489.80
FMC Corp.	FMC Corp.	nrrd	2	3201	11.50
Farrell Cooper Mining Co.	Farrell Cooper Mining Co.	coal	6	10246	34.08
Files, Jerry A.	Files, Jerry A.	indivd	1	521	0.72
FLUOR Corp.	Anchor Coal Co.	other	1	280	5.34
Frandsen G.	Frandsen, G.	indivd	1	40	0.42
Frontier Coal Co. USA	Fort Union Mine Partnership	o&g	1	1913	115.00
Fulton, C.	Fulton, C.	indivd	1	80	0.30
Gaither, K.	Gaither, K.	indivd	1	2557	6.48
Gaither, Kenneth R.	Gaither, Kenneth R.	indivd	1	5707	12.60
Garland Coal & Mining Co.	Garland Coal & Mining Co.	coal	1	3084	8.60
General Dynamics Corp.	Freeman-United Mining Co.	nrrd	4	561	0.00
General Dynamics Corp.	Material Service Corp.	nrrd	2	4842	18.30
General Electric Corp.	General Electric Holdings, Inc	nrrd	3	5290	0.00
Gent's Flying Enterprises	Gent's Flying Enterprises	other	2	160	1.75
Geo Resources Exploration, Inc	Geo Resources Exploration, Inc	other	1	320	0.69
Granite Creek Coal & Uranium	Granite Creek Coal & Uranium	other	1	280	0.20
Great National Corp.	Great National Corp.	other	1	140	0.14
HFCO, Inc.	HFCO, Inc.	coal	1	98	0.09
Hall, H.	Hall, H.	indivd	1	880	0.28
Hanna Mining Corp.	Carbon Coal	o&g	1	160	0.48
Hanna Mining Corp.	Colowyo Coal Co.	m&m	2	2590	146.70
Hiko Bell Mining & Oil Co.	Hayden Gulch West Coal Co.	m&m	1	5298	63.64
Houston Natural Gas Co.	Hiko Bell Mining & Oil Co.	o&g	3	6400	42.76
Hunt Enterprises	W.A. Land Company	nat gas	2	920	0.00
Hunt Enterprises	Ark Land Co.	o&g	14	16223	61.34
Hunt Enterprises	Medicine Bow Coal Co.	o&g	3	7011	17.90
Idaho Power Co.	Union Pacific Corp.	o&g	2	2568	17.90
Ideal Basic Industries, Inc.	Bridger Coal Co.	utility	3	8436	329.80
Ingraham, F.	IBI Coal Co.	other	5	9306	55.88
Intermountain Exploration Co	Ingraham, F.	indivd	1	160	0.14
Internorth Corp.	Intermountain Exploration Co.	m&m	1	160	0.00
Internorth Corp.	Belco Petroleum Corp.	nat gas	1	4551	215.80
Internorth Corp.	Northern Minerals Co.	nat gas	5	3262	48.32

FEDERAL COAL LESSEES
PARENT COMPANIES AND LEASEHOLDING SUBSIDIARIES

PARENT	LESSEE	BUS. CA.	LEASES	ACRES	RECOV.	RES.
Iowa Public Service Co.	Energy Development Co.	utility	1	8683	6.90	
Israel, J.J.	Israel, J.J.	indivd	1	80	0.07	
Jennings, James Sanders	Jennings, James Sanders	indivd	1	40	0.	
Johnson, G. & A.	Johnson, G. & A.	indivd	1	80	0.20	
K & R Coal Co.	Bokoshe Coal Company	coal	1	80	0.13	
K&R Coal Co.	K&R Coal Co.	coal	1	1180	5.09	
K-N Energy, Inc.	North Central Energy Co.	nat gas	1	962	17.05	
K-N Energy, Inc.	Wyoming Fuel Co.	nat gas	2	466	1.94	
Kaiser Steel Corp.	Kaiser Steel Corp.	steel	10	15093	86.58	
Kaneb Services	LEECO	other	1	362	0.60	
Kaneb Services	Texas Energy Services, Inc.	other	1	4856	445.00	
Kerr-McGee Corp.	Kerr-McGee Coal Co.	o&g	5	8695	735.70	
King Cannell Coal Co.	King Cannell Coal Co.	other	1	240	1.18	
Kingston, C. & J.	Kingston, C. & J.	indivd	1	120	1.45	
Kukuchka, C. & W.	Kukuchka, C. & W.	indivd	1	40	0.00	
Lombardi, P.	Lombardi, P.	indivd	1	80	0.08	
Loveless, Robert M.	Loveless, Robert M.	indivd	1	2560	0.00	
Martin, J., trustee	Martin, J., trustee	other	1	40	0.17	
Martinez, A.	Martinez, A.	indivd	1	40	0.14	
McKinnon Marital & Resid. Tr.	McKinnon Trusts	other	5	8672	96.52	
Mid-Continent Resources Corp.	Mid-Continent Resources Corp.	coal	9	7479	62.50	
Mobil Corp.	Mobil Coal Resources Co.	oil major	2	3959	424.50	
Monolith Portland Cement Co.	Monolith Portland Cement Co.	other	1	173	9.43	
Monsanto Corp.	Sweetwater Resources, Inc.	nrrd	2	16432	76.60	
Montana Power Co.	Northwestern Resources Co.	utility	1	120	0.90	
Montana Power Co.	Western Energy Co.	ut lity	8	13003	286.40	
Montana-Dakota Utilities	Knife River Coal Co.	utility	6	9024	145.03	
Mountain States Resource Corp.	Mountain States Resource Corp.	other	2	11387	103.37	
NICOR, Inc.	Grand Mesa Properties Co.	nat gas	2	1266	20.46	
NICOR, Inc.	Pitkin Iron Corp.	nat gas	1	40	0.00	
NICOR, Inc.	Powderhorn Properties Co.	nat gas	6	8524	81.96	
NICOR, Inc.	Snowmass Coal Co.	nat gas	2	4882	55.08	
National King Coal	National King Coal Co.	coal	1	160	2.44	
National King Coal	National King Coal, Inc.	coal	1	180	0.00	
Nevada Power Co.	Nevada Electric Investment Co.	utility	8	10375	0.00	
Norm & Co.	Howe Coal Co.	other	6	12439	30.43	
North American Coal Corp.	Coteau Properties, Inc.	coal	3	3198	60.20	
North American Coal Corp.	Falkirk Mining Co.	coal	1	160	2.14	
North American Coal Corp.	Helen Mining Co.	coal	2	81	0.18	
North American Coal Corp.	North American Coal Co.	coal	3	2178	3.53	
Northwest Industries, Inc.	Lone Star Steel Co.	other	8	11090	17.84	
Northwest Mutual Life Ins. Co.	Northwest Mutual Life Ins. Co.	other	1	4856	445.00	
Occidental Petroleum Corp.	Salt Creek Mining Co.	oil major	6	14929	119.59	
Occidental Petroleum Corp.	Sheridan Enterprises, Inc.	oil major	1	160	0.65	
Pacific Power & Light Co.	Antelope Coal Co.	utility	2	4777	266.70	
Pacific Power & Light Co.	Bridger Coal Co.	utility	3	8436	329.80	
Pacific Power & Light Co.	Decker Coal Co.	utility	5	14771	374.50	
Pacific Power & Light Co.	Eden Ridge Coal Co.	utility	2	4874	30.00	
Pacific Power & Light Co.	Pacific Power & Light Co.	utility	13	14262	78.65	

PARENT	LESSEE	BUS. CA.	LEASES	ACRES	RECOV.	RES.
	Pacific Power & Light Co.	utility	5	4311	130.00	
	Pacific Power & Light Co.	utility	1	2347	243.00	
	Padilla, F.	indivd	2	160	0.78	
	Panhandle Eastern Pipeline Co.	nat gas	2	1360	132.15	
	Peabody Holding Co.	peabody	2	1360	132.15	
	Peabody Holding Co.	peabody	26	50678	1281.38	
	Peabody Holding Co.	peabody	2	2600	95.00	
	Perma Resources Corp.	coal	1	90	0.00	
	Peter Kiewit Sons, Inc.	other	2	440	27.80	
	Peter Kiewit Sons, Inc.	other	1	14902	74.00	
	Peter Kiewit Sons, Inc.	other	1	1408	29.70	
	Peter Kiewit Sons, Inc.	other	5	14771	374.50	
	Peter Kiewit Sons, Inc.	other	1	40	0.00	
	Peter Kiewit Sons, Inc.	other	1	524	40.00	
	Peter Kiewit Sons, Inc.	other	3	6481	35.96	
	Peter Kiewit Sons, Inc.	o&g	2	6182	12.11	
	Petroleum International, Inc.	oil major	3	3580	268.00	
	Phillips Petroleum Corp.	oil major	3	2020	14.54	
	Pitkin Iron Corp.	m&m	1	40	0.00	
	Pitkin Iron Corp.	m&m	1	251	0.30	
	Pittston Coal Co.	coal	1	160	0.48	
	Property Holding Co. of Albuquerque	other	5	10239	109.71	
	Public Service Co. of NM	utility	2	240	0.90	
	Pyro Energy Co.	o&g	6	8767	347.22	
	Quaker State Oil Refining Co.	o&g	1	3238	170.00	
	Ranchers Energy Co	other	1	40	0.15	
	Rasmussen, A. & V.	indivd	1	2560	0.00	
	Read, Edwin C.	indivd	1	80	0.00	
	Reese, Thomas E.	indivd	1	197	0.37	
	Reliance Group Holdings, Inc.	other	2	3536	9.50	
	Republic Steel Corp.	steel	1	80	1.40	
	Resource Exploration & Mining	coal	1	1675	17.60	
	Riebold, P.	indivd	1	146	1.40	
	Ruby Construction Co.	other	2	2240	5.30	
	Ryans Creek Coal Co.	coal	21	40276	345.23	
	San Diego Gas & Electric Co.	utility	2	161	0.43	
	Santa Fe Industries, Co.	other	3	5726	36.20	
	Sharon Steel Corp.	steel	4	6827	641.50	
	Shell Oil Corp.	oil major	1	80	0.04	
	Simmons, J.	indivd	1	1282	0.75	
	Smith & Peavley Co.	coal	1	80	1.25	
	Smith-Holladay Associates	other	3	6400	42.76	
	Sorenson Resources Co.	other	21	40276	345.23	
	Southern California Edison	utility	1	680	0.32	
	Standard Equipment, Inc.	other	1	2571	67.14	
	Standard Oil (Ohio) Co.	oil major	4	1133	29.40	
	Standard Oil of Indiana. Co.	oil major	1	521	0.72	
	Stovall, Billy Gene	indivd	16	27658	360.77	
	Swanton Corp.	other				

FEDERAL COAL LESSEES
PARENT COMPANIES AND LEASEHOLDING SUBSIDIARIES

PARENT LESSEE	BUS. CAT.	LEASES	ACRES	RECOV.	RES.
Texaco, Inc.	oil major	1	274		0.73
Texaco, Inc.	oil major	7	6710		75.00
Texaco, Inc.	oil major	4	3929		51.00
Texaco, Inc.	oil major	5	9417		800.50
Texas Eastern Transmission	nat gas	1	1910		33.62
The Coastal Corp.	nat gas	10	13299		78.30
The Pacola Co.	coal	1	960		0.00
The Sun Co.	oil major	1	409		0.26
The Sun Co.	oil major	7	15148		643.62
Thermal Energy Co.	o&g	1	6336		38.44
Thompson Creek Coal & Coke Co.	coal	1	120		1.00
Tucson Electric Company	utility	4	9311		109.71
U.S. Steel Corp.	steel	19	20373		438.47
Union Pacific Corp.	other	1	14902		74.00
Union Pacific Corp.	other	1	1408		29.70
Union Pacific Corp.	other	2	2568		17.90
Union Pacific Corp.	other	1	1645		12.50
Utah Power & Light Co.	utility	15	28309		219.88
W.R. Grace & Co.	nrrd	2	2590		146.70
W.R. Grace & Co.	nrrd	1	5298		63.64
W.R. Grace & Co.	nrrd	1	3863		33.00
Wasatch Coal Co.	coal	1	280		0.34
Washington Energy Co.	nat gas	1	2096		178.00
Washington Water Power Co.	utility	2	521		8.70
Weaver, H. & O.	individ	1	80		0.30
Welch, E. & Wiggins, S.	individ	1	120		1.99
West, S.	individ	1	961		12.60
Western Fuels Association	utility	5	6441		66.33
Westhoff Brothers, Inc.	other	2	6182		12.11
Westmoreland Coal Co.	coal	4	6443		46.91
Wilberg, C.	individ	1	80		0.35
Williams Companies	nat gas	1	400		14.25
Williams Companies	nat gas	4	1539		30.10
Williams, Jerry	individ	3	3012		10.97

DEVELOPMENT S A US OF FEDERAL COAL LEASES

STATE SERIAL	BLOCK OR MINE NAME	DATE ISSUED	ACRES DEV. STATUS	LESSEE #1	PCT NO. LESSEES	DATE ACQUIRED	HOW ACQUIRED	SEC. 3 DATE	SEC. 3 STATUS
AK F04923	Alaska State Bank	09/18/47	600 UP	Alaska State Bank	100 1	/	ind	08/04/86	00
AK F014996	Read PRLA	03/22/83	2560 UN	Read, Edwin C.	50 3	03/22/83	den	03/22/93	00
AL ES12284	North River	06/01/74	2338 AA	Republic Steel Corp.	100 1	06/01/74	den	08/04/86	00
AL ES26901	North River	02/01/82	1198 AA	Gulf Oil Corp.	50 2	02/01/82	den	02/01/92	00
AL ES27219	Brannon Creek	01/01/83	479 00	Ark Land Co.	100 1	01/01/83	den	01/01/93	00
AL ES27221	Dividingridge	11/01/82	638 00	Abston Construction Co.	100 1	11/01/82	den	11/01/92	00
AL ES27220	Elm Grove	03/01/82	80 00	Israel, J.J.	100 1	03/01/82	den	03/01/92	00
AL ES27227	Flatwoods	03/01/83	478 00	Williams, Jerry	100 1	03/01/83	den	03/01/93	00
AL ES26900	Goodwin Creek	01/01/82	201 00	Apex Mining Company, Inc.	100 1	01/01/82	den	01/01/92	00
AL ES27228	Howard	07/01/82	822 00	Ark Land Co.	100 1	07/01/82	den	07/01/92	00
AL ES27218	Jess Creek	07/01/82	1972 00	Williams, Jerry	100 1	07/01/82	den	07/01/92	00
AL ES27217	Piney Woods Church	07/01/82	198 00	Alabama Electric Coop.	100 1	07/01/82	den	07/01/92	00
AL ES27072	Rock Springs Church	01/01/82	3480 00	U.S. Steel Corp.	100 1	01/01/82	den	01/01/92	00
AL ES16968	Stovall-Files	06/01/80	521 00	Files, Jerry A.	50 2	06/01/80	den	06/01/90	00
AL ES27222	Tyro Creek	03/01/83	562 00	Williams, Jerry	100 1	03/01/83	den	03/01/93	00
AL ES26902	Upper North River	01/01/82	40 00	Jennings, James Sanders	100 1	01/01/82	den	01/01/92	00
AL ES26904	Upper Sulfur Springs Chr	01/01/82	39 00	Apex Mining Company, Inc.	100 1	01/01/82	den	01/01/92	00
CA S032582	Reese	09/09/43	80 UP	Reese, Thomas E. & Dixie	100 2	/	den	08/04/86	NU
CO C0127592	Apex No.2	10/01/66	80 AA	Sunland Mining Corp.	100 1	10/01/66	den	08/04/86	YM
CO D046544	Apex No.2	12/03/37	160 AA	Sunland Mining Corp.	100 1	01/01/77	ind	01/01/87	YM
CO C01538	Cameo	06/01/51	2560 AA	Powderhorn Properties Co.	100 1	12/01/84	ind	12/01/94	YM
CO C27931	Canadian Strip	03/01/80	90 AI	Wyoming Fuel Co.	100 1	03/01/80	den	03/01/90	00
CO C31805	Canadian Strip	11/01/81	376 AI	Wyoming Fuel Co.	100 1	11/01/81	den	11/01/91	00
CO C34886	Chimney Rock	10/01/83	90 AA	Perma Mining Corp.	100 1	10/01/83	den	10/01/93	00
CO C12640	Coal Basin	05/01/66	1529 AA	Mid-Continent Resources Corp.	100 1	05/01/71	seg	08/04/86	YM
CO C0115606	Coal Basin	01/01/65	80 AA	Mid-Continent Resources Corp.	100 1	01/01/65	den	08/04/86	YM
CO C011646	Coal Basin	10/01/58	957 AA	Mid-Continent Resources Corp.	100 1	05/01/74	ind	08/04/86	YM
CO C0125456	Coal Basin	04/01/61	80 AA	Mid-Continent Resources Corp.	100 1	07/01/65	seg	08/04/86	YM
CO C030345	Coal Basin	04/01/61	117 AA	Mid-Continent Resources Corp.	100 1	05/01/71	ind	08/04/86	YM
CO C074632	Coal Basin	12/01/66	680 AA	Mid-Continent Resources Corp.	100 1	12/01/66	den	08/04/86	YM
CO C0125457	Coal Basin	10/01/58	1142 AA	Mid-Continent Resources Corp.	100 1	07/01/65	seg	08/04/86	YM
CO C09004	Coal Basin	05/01/61	1529 AA	Mid-Continent Resources Corp.	100 1	05/01/61	den	08/04/86	YM
CO C09005	Coal Basin	11/01/58	1365 AA	Mid-Continent Resources Corp.	100 1	11/01/58	den	08/04/86	YM
CO D036906	Colby Red Canyon	04/01/24	41 AN	Powderhorn Properties Co.	100 1	07/01/82	ind	07/01/92	QM
CO D034365	Colowyo Strip	10/25/24	2545 AA	Colowyo Coal Co.	100 1	12/01/73	par	08/04/86	YM
CO C35874	Colowyo Strip	07/01/81	45 AA	Colowyo Coal Co.	100 1	07/01/81	den	07/01/91	00
CO C020740	Cottonwood Creek/Cameo	10/01/58	40 AA	Powderhorn Properties Co.	34 2	12/01/84	ind	08/04/86	YM
CO C029889	Cottonwood Creek/Cameo	10/01/64	2522 AA	Powderhorn Properties Co.	100 1	12/01/84	ind	12/01/94	YM
CO C024998	Cottonwood Creek/Cameo	11/01/63	2551 AA	Powderhorn Properties Co.	100 1	12/01/84	ind	12/01/94	YM
CO D047201	Deserado	07/25/36	513 AA	Western Fuels-Utah, Inc.	100 1	12/01/83	ind	12/01/93	YL
CO C023703	Deserado	03/01/63	2557 AA	Western Fuels-Utah, Inc.	100 1	06/01/81	ind	06/01/91	YL

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DEVELOPMENT STATUS OF FEDERAL COAL LEASES

STATE SERIAL	BLOCK OR MINE NAME	DATE ISSUED	ACRES DEV. STATUS	LESSEE #	LESSEES	PCT NO.	DATE ACQUIRED	HOW ACQUIRED	SEC. 3 DATE	SEC. 3 STATUS
CO C8424	Deserado	06/01/82	2552 AA		Western Fuels Utah, Inc.	100 1	06/01/82	den	06/01/92 00	
CO C0126669	Deserado	08/01/82	259 AA		Western Fuels Utah, Inc.	100 1	08/01/82	den	08/01/92 00	
CO C8425	Deserado	06/01/82	560 AA		Western Fuels Utah, Inc.	100 1	06/01/82	den	06/01/92 00	
CO C0126480	Eagle Complex	01/01/66	367 AA		Empire Energy Corp.	100 1	02/01/76	ind	08/04/86 YM	
CO C0127865	Eagle Complex	01/01/66	43 AA		Empire Energy Corp.	100 1	04/01/72	ind	08/04/86 YM	
CO D056298	Eagle Complex	12/01/49	41 AA		Empire Energy Corp.	100 1	04/01/72	ind	08/04/86 YM	
CO C30656	Eagle Complex	07/01/81	682 AA		Empire Energy Corp.	100 1	07/01/81	den	07/01/91 00	
CO C021601	Edna Strip	06/01/62	827 AA		Gulf Oil Corp.	100 1	06/01/62	den	08/04/86 YM	
CO D033327	Edna Strip	04/23/25	280 AA		Gulf Oil Corp.	100 1	04/01/62	ind	08/04/86 YM	
CO D041478	Edna Strip	05/06/30	80 AA		Gulf Oil Corp.	100 1	04/01/62	ind	08/04/86 YM	
CO D053710	Edna Strip	06/10/47	89 AA		Gulf Oil Corp.	100 1	07/01/62	ind	08/04/86 YM	
CO C0128433	Energy Fuels Complex	06/01/75	475 AA		Getty Minerals Marketing, Inc.	100 1	03/01/77	ind	03/01/87 YM	
CO C081330	Energy Fuels Complex	11/01/63	2215 AA		Getty Minerals Marketing, Inc.	100 1	03/01/77	ind	03/01/87 YM	
CO C16284	Energy Fuels Complex	07/01/78	263 AA		Getty Minerals Marketing, Inc.	100 1	07/01/78	den	07/01/88 00	
CO C20900	Energy Fuels Complex	11/01/78	420 AA		Getty Minerals Marketing, Inc.	100 1	11/01/78	den	11/01/88 00	
CO C22644	Energy Fuels Complex	07/01/79	1790 AA		Getty Minerals Marketing, Inc.	100 1	07/01/79	den	07/01/89 00	
CO C22676	Energy Fuels Complex	09/01/79	402 AA		Getty Minerals Marketing, Inc.	100 1	09/01/79	den	09/01/89 00	
CO D052547	Energy Fuels Complex	03/01/45	1145 AA		Getty Minerals Marketing, Inc.	100 1	09/01/77	ind	09/01/87 YM	
CO C17130	Hawksnest East	12/01/73	241 AI		Western Slope Carbon, Inc.	100 1	12/01/73	den	08/04/86 YM	
CO C27103	Hawksnest East	10/01/79	290 AI		Western Slope Carbon, Inc.	100 1	10/01/79	den	10/01/89 00	
CO D042921	Hawksnest East	02/25/31	819 AI		Western Slope Carbon, Inc.	100 1	10/01/70	ind	08/04/86 YM	
CO D056724	Hawksnest East	12/01/50	189 AI		Western Slope Carbon, Inc.	100 1	05/01/70	ind	08/04/86 YM	
CO P058300	King Coal	09/11/41	160 AA		National King Coal Co.	100 1	02/01/78	ind	02/01/88 YM	
CO C0125436	Loma Complex	05/01/68	2446 AI		Salt Creek Mining Co.	100 1	01/01/78	ind	01/01/88 QM	
CO C0125437	Loma Complex	05/01/68	2357 AI		Salt Creek Mining Co.	100 1	01/01/78	ind	01/01/88 QM	
CO C0125438	Loma Complex	05/01/68	2560 AI		Salt Creek Mining Co.	100 1	01/01/78	ind	01/01/88 QM	
CO C0125439	Loma Complex	05/01/68	2483 AI		Salt Creek Mining Co.	100 1	01/01/78	ind	01/01/88 QM	
CO C0125515	Loma Complex	05/01/68	2560 AI		Salt Creek Mining Co.	100 1	01/01/78	ind	01/01/88 QM	
CO C0125516	Loma Complex	05/01/68	2523 AI		Salt Creek Mining Co.	100 1	01/01/78	ind	01/01/88 QM	
CO C22777	Marr	07/01/80	770 AA		Kerr Coal Co.	100 1	07/01/80	den	07/01/90 00	
CO C1545	Meeker Area	09/01/67	896 AI		Northern Minerals Co.	100 1	06/01/79	ind	06/01/89 YM	
CO C28358	Meeker Area	06/01/67	886 AI		Northern Minerals Co.	100 1	06/01/79	seg	06/01/89 YM	
CO C28359	Meeker Area	06/01/67	1000 AI		Northern Minerals Co.	100 1	09/01/79	seg	06/01/89 YM	
CO C076713	Meeker Area	02/01/66	320 AI		Northern Minerals Co.	100 1	12/01/79	ind	12/01/89 YM	
CO D044240	Meeker Area	01/12/33	160 AI		Northern Minerals Co.	100 1	12/01/79	ind	12/01/89 YM	
CO C0117192	Mt. Gunnison	06/01/65	1243 AA		Atlantic Richfield Co.	100 1	03/11/69	ind	08/04/86 YM	
CO C1362	Mt. Gunnison	09/01/67	4836 AA		Atlantic Richfield Co.	100 1	09/01/67	den	08/04/86 YM	
CO D044569	Mt. Gunnison	08/30/34	1340 AA		Atlantic Richfield Co.	100 1	04/01/71	ind	08/04/86 YM	
CO C08172	N. Thompson Creek	06/01/58	2413 AN		Snowmass Coal Co.	100 1	08/01/80	ind	08/01/90 NM	
CO C08173	N. Thompson Creek	06/01/58	2469 AN		Snowmass Coal Co.	100 1	08/01/80	ind	08/01/90 NM	
CO C29125	National King Coal	11/01/81	180 AA		National King Coal, Inc.	100 1	11/01/81	den	11/01/91 00	

DEVELOPMENT STATUS OF FEDERAL COAL LEASES

STATE	SERIAL	BLOCK OR MI NE NAME	DATE ISSUED	ACRES	DEV. STATUS	LESSEE #1	PCT NO. LESSEES	DATE ACQUI RED	HOW ACQUI RED	SEC. 3 DATE	SEC. 3 STATUS
CO	c069942	Ohio Creek No.2	04/01/62	80	AA	Weaver, H. & O.	100 1	05/01/76	ind	08/04/86	YM
CO	C25079	Orchard Valley	03/01/78	310	AA	Colorado Westmoreland, Inc.	100 1	03/01/78	den	03/01/88	00
CO	c27432	Orchard Valley	09/01/79	854	AA	Colorado Westmoreland, Inc.	100 1	09/01/79	den	09/01/89	00
CO	c37210	Orchard Valley	05/01/84	4999	AA	Colorado Westmoreland, Inc.	100 1	05/01/84	den	05/01/94	00
CO	C078049	Roadside	08/01/66	810	AA	Powderhorn Properties Co.	100 1	12/01/84	ind	12/01/94	YM
CO	C19885	Seneca 2	06/01/79	125	AA	Peabody Coal Co.	100 1	06/01/79	den	06/01/89	YM
CO	C088199	Seneca 2	07/01/63	2280	AA	Peabody Coal Co.	100 1	07/01/63	den	08/04/86	YM
CO	C086654	Seneca 2 (##7)	07/01/63	160	AA	Peabody Coal Co.	100 1	07/01/63	den	08/04/86	YM
CO	C033301	Somerset	01/07/60	625	AA	U.S. Steel Corp.	100 1	07/01/60	den	08/04/86	YM
CO	c033302	Somerset	07/01/64	1548	AA	U.S. Steel Corp.	100 1	03/15/60	den	08/04/86	YM
CO	D052504	Somerset	08/19/44	3470	AA	U.S. Steel Corp.	100 1	03/01/56	ind	08/04/86	YM
CO	c36446	Somerset	05/01/84	79	AA	U.S. Steel Corp.	100 1	05/01/84	den	05/01/94	00
CO	C25948	Trapper	06/01/80	85	AA	Utah International, Inc.	100 1	06/01/80	den	06/01/90	YM
CO	c07518	Trapper	06/01/58	2566	AA	General Electric Holdings, Inc	100 1	06/01/58	den	08/04/86	YM
CO	C07519	Trapper	06/01/58	1372	AA	General Electric Holdings, Inc	100 1	06/01/58	den	08/04/86	YM
CO	C079641	Trapper	10/01/62	1352	AA	General Electric Holdings, Inc	100 1	10/01/62	den	08/04/86	YM
CO	c813	Trapper	04/01/70	160	AA	Utah International, Inc.	100 1	03/01/70	den	08/04/86	YM
CO	C0127833	Fruita	07/01/81	5087	PN	Dorchester Coal Co.	100 1	07/01/81	den	07/01/91	00
CO	C0127832	Fruita	07/01/81	4522	PN	Dorchester Coal Co.	100 1	07/01/81	den	07/01/91	00
CO	c0127834	Fruita	07/01/81	5120	PN	Dorchester Coal Co.	100 1	07/01/81	den	07/01/91	00
CO	C081251	Seneca 2W	05/01/65	2519	PN	Material Service Corp.	100 1	05/01/65	den	08/04/86	QM
CO	c081258	Seneca 2W	05/01/65	2323	PN	Material Service Corp.	100 1	05/01/65	den	08/04/86	QM
CO	C0114093	Seneca 2W	05/01/64	1320	PN	Peabody Coal Co.	100 1	05/01/64	den	08/04/86	QM
CO	c0112685	Denver Basin	12/01/67	640	R	Peabody Coal Co.	100 1	/ /	rel	/ /	0 0
CO	C0112686	Denver Basin	12/01/67	640	R	Peabody Coal Co.	100 1	/ /	rel	/ /	0 0
CO	c0112687	Denver Basin	12/01/67	644	R	Peabody Coal Co.	100 1	/ /	rel	/ /	0 0
CO	C0126477	Denver Basin	12/01/67	760	R	Peabody Coal Co.	100 1	/ /	rel	/ /	0 0
CO	D057166	Jackson Co.	06/21/51	173	R	Monolith Portland Cement Co.	100 1	/ /	rel	/ /	0 0
CO	c012765	Thompson Creek	06/01/60	498	R	Garland Coal & Mining Co.	100 1	/ /	rel	/ /	0 0
CO	C012894	Cardinal	02/01/56	634	UP	Franklin Real Estate Co.	100 1	06/01/75	ind	08/04/86	NU
CO	C028875	Chapman & Riebo(d	11/01/31	1675	UN	Riebold, P.	50 2	06/01/74	par	08/04/86	NU
CO	C0125485	Coal Basin West(#28)	01/01/65	200	UN	U.S. Steel Corp.	100 1	07/01/65	seg	08/04/86	NM
CO	C030344	Coal Basin West(#28)	05/01/60	517	UN	U.S. Steel Corp.	100 1	05/01/60	den	08/04/86	NM
CO	c12638	Coal Basin West(#28)	01/01/65	315	UN	U.S. Steel Corp.	100 1	05/01/71	den	08/04/86	NM
CO	C12639	Coal Basin West(#28)	12/01/66	800	UN	U.S. Steel Corp.	100 1	05/01/71	den	08/04/86	NM
CO	c1894	Coal Basin West(#28)	12/01/66	120	UN	U.S. Steel Corp.	100 1	06/01/67	seg	08/04/86	NM
CO	C7852	Coal Basin West(#28)	12/01/66	160	UN	U.S. Steel Corp.	100 1	11/01/68	seg	08/04/86	NM
CO	c030346	Coal Basin West(#28)	05/01/60	640	UN	U.S. Steel Corp.	100 1	05/01/60	den	08/04/86	NM
CO	c7853	Coal Basin West(#28)	01/01/65	717	UN	U.S. Steel Corp.	100 1	11/01/68	seg	08/04/86	NM
CO	c037277	Coal Canyon	10/01/62	1471	UP	Mid-Continent Limestone Co.	100 1	10/01/62	den	08/04/86	NM
CO	C059420	Coal Canyon	10/01/65	308	UN	Mid-Continent Limestone Co.	100 1	01/01/69	den	08/04/86	NM

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DEVELOPMENT STATUS OF FEDERAL COAL LEASES

STATE SERIAL	BLOCK OR MINE NAME	DATE ISSUED	ACRES DEV. STATUS	LESSEE #	PCT NO. LESSEES	DATE ACQU RED	HOW ACQU RED	SEC. 3 DATE	SEC. 3 STATUS
CO D040389	Coal Canyon	05/21/32	241 UP	Mid-Continent Limestone Co.	100 1	01/01/69	ind	08/04/86	NM
CO C0123476	Danforth Hills	12/01/66	2252 UN	Utah International, Inc.	100 1	12/01/66	den	08/04/86	NM
CO C093713	Danforth Hills #12	06/01/67	2518 UN	Consolidation Coal Co.	100 1	09/01/72	ind	08/04/86	NM
CO C093716	Danforth Hills #13	06/01/67	2061 UN	Consolidation Coal Co.	100 1	09/01/72	ind	08/04/86	NM
CO C245	Danforth Hills #13	01/11/66	226 UN	Consolidation Coal Co.	100 1	09/01/72	ind	08/04/86	NM
CO C1546	Danforth Hills #14	09/01/67	1097 UN	Consolidation Coal Co.	100 1	09/01/72	ind	08/04/86	NM
CO C093714	Danforth Hills #15	06/01/67	571 UN	Consolidation Coal Co.	100 1	09/01/72	ind	08/04/86	NM
CO C093715	Danforth Hills #15	06/01/67	760 UN	Consolidation Coal Co.	100 1	09/01/72	ind	08/04/86	NM
CO C29224	Danforth Hills NP #1	07/01/81	876 UN	Consolidation Coal Co.	100 1	07/01/81	den	07/01/91	OO
CO C29225	Danforth Hills NP #2	06/01/83	2368 UN	Utah International, Inc.	100 1	06/01/83	den	06/01/93	OO
CO C29226	Danforth Hills NP #3	04/01/83	1895 UN	Consol Land Development	100 1	04/01/83	den	04/01/93	OO
CO C0123475	Danforth Hills PRLA	05/01/82	2082 UN	Utah International, Inc.	100 1	05/01/82	den	05/01/92	OO
CO C064416	Ferne James	01/01/66	40 UN	Martin, J., trustee	100 1	05/27/83	ind	05/27/93	NU
CO C0125957	Grace (#5)	10/01/65	3863 UN	W.R. Grace & Co.	100 1	12/01/79	ind	12/01/89	NM
CO C29221	Grassy Creek	05/01/82	400 UN	American Minority Mining	100 1	05/01/82	den	05/01/92	OO
CO D055156	Green Valley	10/18/48	174 UP	Grand Mesa Properties Co.	100 1	07/01/82	ind	07/01/92	NU
CO D037766	Gunnison (#26)	11/05/27	120 UN	Thompson Creek Coal & Coke Co.	100 1	11/01/54	ind	08/04/86	NU
CO D043937	Harvey Gap	04/05/32	120 UP	Weich, E. & Higgins, S.	100 1	12/19/73	ind	08/04/86	NU
CO C29217	Hayden Gulch	07/01/83	5298 UN	Hayden Gulch West Coal Co.	100 1	07/01/83	den	07/01/93	OO
CO C030472	Jackson Co.	07/01/60	120 UN	AMCA Coal Leasing, Inc.	100 1	07/01/79	ind	07/01/89	NU
CO D052546	Joe's Mine	09/27/48	160 UP	Sheridan Enterprises, Inc.	100 1	08/01/77	ind	08/01/87	NU
CO C23396	Johnnie's Mine	01/01/79	80 UN	Lombardi, P.	100 1	01/01/79	den	01/01/89	OO
CO C067	Long Canyon	07/01/52	962 UN	North Central Energy Co.	100 1	10/01/84	ind	10/01/94	QM
CO P058043	Martinez	09/11/41	40 UP	Martinez, A.	100 1	09/11/41	den	08/04/86	NU
CO C0105299	North Park	06/01/68	560 UN	Gulf Oil Corp.	50 2	06/01/68	den	08/04/86	NM
CO C0105300	North Park	06/01/68	1680 UN	Gulf Oil Corp.	50 2	06/01/68	den	08/04/86	NM
CO C0123177	North Park	08/01/66	1707 UN	Gulf Oil Corp.	50 2	06/01/68	den	08/04/86	NM
CO D036955	Paonia Farmers	12/28/23	280 UP	Colorado Westmoreland, Inc.	100 1	11/01/82	ind	11/01/92	NU
CO C29220	Pinnacle	08/01/81	274 UN	Colorado Yampa Coal Co.	100 1	08/01/81	den	08/01/91	OO
CO D051376	Rouff Co.	10/08/40	250 UN	AMCA Coal Leasing, Inc.	100 1	06/01/78	ind	06/01/88	NM
CO C068389	S. Somerset	09/01/61	560 UN	U.S. Steel Corp.	100 1	09/01/61	den	08/04/86	NM
CO C051669	S. Somerset	09/01/61	1092 UN	Grand Mesa Properties Co.	100 1	07/01/82	ind	07/01/92	NM
CO D052558	S. Somerset	08/19/44	214 UP	U.S. Steel Corp.	100 1	04/01/56	ind	08/04/86	NM
CO D051698	Sun	09/11/41	146 UP	Ruby Construction Co.	100 1	11/01/74	ind	08/04/86	NM
CO C0120078	Tongue Mesa	01/11/68	2000 UN	Gulf Oil Corp.	100 1	11/01/68	den	08/04/86	NM
CO C0120079	Tongue Mesa	01/11/68	2560 UN	Gulf Oil Corp.	100 1	11/01/68	den	08/04/86	NM
CO C0120080	Tongue Mesa	01/11/68	1600 UN	Gulf Oil Corp.	100 1	11/01/68	den	08/04/86	NM
CO D038385	Tongue Mesa	03/01/29	360 UP	Gulf Oil Corp.	100 1	11/01/68	den	08/04/86	NM
CO C0120073	Tongue Mesa	01/11/68	2240 UN	Gulf Oil Corp.	100 1	05/01/66	ind	08/04/86	NM
CO C0120077	Tongue Mesa	01/11/68	1242 UN	Gulf Oil Corp.	100 1	11/01/68	den	08/04/86	NM
CO C0120076	Tongue Mesa	01/12/68	2320 UN	Gulf Oil Corp.	100 1	11/01/68	den	08/04/86	NM

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STATE	SER AL	BLOCK OR MINE NAME	DATE ISSUED	ACRES DEV. STATUS	LESSEE #	PCT NO. LESSEES	DATE ACQUIRED	HOW ACQUIRED	SEC. 3 DATE	SEC. 3 STATUS
CO	D052501	Windjammer	08/20/45	280 UP	Anchor Coal Co.	100 1	12/01/78	ind	12/01/88	NM
KY	ES15444	Greenwood	09/01/81	409 UP	Greenwood Land Mining Co.	100 1	09/01/81	den	09/01/91	00
KY	ES12847	Leeco	03/01/75	362 00	LEECO	100 1	03/01/75	den	08/04/86	00
KY	ES30967	River Processing	12/01/84	197 00	River Processing, Inc.	100 1	12/01/84	den	12/01/94	00
KY	ES12304	Ryan's Creek	01/01/79	319 00	Ryan's Creek Coal Co.	100 1	01/01/79	den	01/01/89	00
KY	ES21181	Ryan's Creek	05/01/82	1921 00	Ryan's Creek Coal Co.	100 1	05/01/82	den	05/01/92	00
KY	ES36115	Smith-Peavley	01/01/74	1282 00	Smith & Peavley Co.	100 1	01/01/74	den	08/04/86	00
MT	M15965	Big Sky	04/01/71	4307 AA	Peabody Coal Co.	100 1	04/01/71	den	08/04/86	YM
MT	B020989	Colstrip	05/05/23	1446 AA	Western Energy Co.	100 1	08/01/59	ind	08/04/86	YM
MT	M073109	Colstrip	09/01/66	5792 AA	Western Energy Co.	100 1	10/01/66	den	08/04/86	YM
MT	M35734	Colstrip	08/01/79	480 AA	Western Energy Co.	100 1	08/01/79	den	08/01/89	00
MT	M35735	Colstrip	08/01/79	447 AA	Western Energy Co.	100 1	08/01/79	den	08/01/89	00
MT	M42381	Colstrip	06/01/80	62 AA	Western Energy Co.	100 1	06/01/80	den	06/01/90	00
MT	M54712	Colstrip	08/01/82	893 AA	Western Energy Co.	100 1	10/01/82	den	08/01/92	00
MT	M54711	Colstrip	08/01/82	1633 AA	Western Energy Co.	100 1	08/01/82	den	08/01/92	00
MT	M54713	Colstrip	08/01/82	2250 AA	Western Energy Co.	100 1	08/01/82	den	08/01/92	00
MT	M052647	Divide	07/01/28	80 AA	Divide Coal Mining Co.	100 1	11/01/62	den	08/04/86	YM
MT	M073093	E. Decker	08/01/66	9410 AA	Decker Coal Co.	100 1	09/01/71	ind	08/04/86	YM
MT	M023207	Savage	03/01/57	960 AA	Knife River Coal Co.	100 1	03/01/57	den	08/04/86	YM
MT	M069782	Spring Creek	07/01/65	2347 AA	Spring Creek Coal Co.	100 1	01/01/66	ind	08/04/86	YM
MT	M06770	W. Decker	01/01/54	40 AA	Kukuchka, C. & W.	100 2	11/20/78	ind	11/20/88	YM
MT	M057934A	W. Decker	01/01/63	1841 AA	Decker Coal Co.	100 1	10/01/71	ind	08/04/86	YM
MT	M061685	W. Decker	03/01/64	2360 AA	Decker Coal Co.	100 1	10/13/71	ind	08/04/86	YM
MT	M057934	W. Decker	10/01/63	720 AA	Decker Coal Co.	100 1	05/01/75	ind	08/04/86	YM
MT	M37604	W. Decker	07/01/81	440 AA	Decker Coal Co.	100 1	07/01/81	den	07/01/91	00
MT	M54716	W. Decker	09/01/82	40 AA	Montana Royalty Co.	100 1	09/01/82	den	09/01/92	00
MT	M46292	CX Ranch	03/01/64	674 PN	Consolidation Coal Co.	50 2	05/01/80	seg	05/01/90	NM
MT	M061686	Wolf Mountain	03/01/64	524 PN	Peter Kiewit Sons, Inc.	100 1	03/01/64	den	08/04/86	NM
MT	GF082523	Bugni	08/06/42	80 UP	Bugni, A.	50 2	10/01/65	ind	08/04/86	NU
MT	M54714	Cook Mountain	06/01/83	2096 UP	Thermal Energy Co.	100 1	06/01/83	den	06/01/93	00
MT	B028531	Johnson	03/03/28	80 UP	Johnson, G. & A.	100 2	12/01/60	ind	08/04/86	NU
MT	M069945	Pearl	11/01/62	541 UN	Shell Oil Corp.	100 1	08/15/75	ind	08/04/86	NU
MT	M3831	U.S. Steel	12/01/67	2537 UN	U.S. Steel Corp.	100 1	10/01/67	den	08/04/86	NU
MT	M3832	U.S. Steel	12/01/67	2559 UN	U.S. Steel Corp.	100 1	10/01/67	den	08/04/86	NU
ND	M043848	Center	01/01/62	2325 AA	Baukol-Noonan, Inc.	100 1	10/01/70	ind	08/04/86	YM
ND	M31053	Falkirk	08/01/80	160 AA	Falkirk Mining Co.	100 1	08/01/80	den	08/01/90	00
ND	M071813	Freedom	11/01/67	2034 AA	Coteau Properties, Inc.	100 1	11/01/75	ind	08/04/86	QC
ND	M042819	Freedom	10/01/61	764 AA	Coteau Properties, Inc.	100 1	10/01/61	den	08/04/86	QC
ND	M163	Freedom	03/01/67	400 AA	Coteau Properties, Inc.	100 1	03/01/67	den	08/04/86	QC
ND	BLM019127	Gascoyne	01/01/51	2872 AA	Knife River Coal Co.	100 1	01/01/51	den	08/04/86	YM
ND	M070203	Glenharold	11/01/65	477 AA	Basin Cooperative Services	100 1	03/01/84	ind	03/01/94	YM

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STATE SERIAL	BLOCK OR MINE NAME	DATE ISSUED	ACRES DEV. STATUS	LESSEE #1	PCT NO.	DATE ACQUIRED	HOW ACQUIRED	SEC. 3 DATE	SEC. 3 STATUS
ND M11269	Glenharold	05/01/71	260 AA	Basin Cooperative Services	100 1	03/01/84	ind	03/01/94	YM
ND M21209	Glenharold	11/01/79	1688 AA	Basin Cooperative Services	100 1	03/01/84	ind	03/01/94	OO
ND BK020273	Indian Head	10/02/22	1357 AM	North American Coal Corp.	100 1	07/01/57	ind	08/04/86	YD
ND M34980	Indian Head	04/01/79	441 AA	North American Coal Corp.	100 1	04/01/79	den	04/01/89	OO
ND M59727	Indian Head ?	06/01/84	380 AA	North American Coal Corp.	100 1	06/01/84	den	06/01/94	OO
ND M065329	Nelson Pit	12/01/64	320 AA	Geo Resources Exploration, Inc	100 1	12/01/64	den	08/04/86	QC
ND M041765	South Beulah	08/01/61	1600 AA	Knife River Coal Co.	100 1	08/01/61	den	08/04/86	YM
ND M43083	South Beulah	08/19/80	80 AA	Knife River Coal Co.	100 1	08/19/80	den	08/19/90	OO
ND M15896	Velva	05/01/71	40 AM	Consolidation Coal Co.	100 1	05/01/71	den	08/04/86	YD
ND BLM018322	Bonsness	01/01/51	80 R	Bonsness, L.	100 1	11/17/75	rel	/	OO
ND M061025	American Colloid	03/01/64	80 UN	American Colloid Co.	100 1	03/01/64	den	08/04/86	NU
ND M437	New Leipzig	03/01/69	640 UN	Knife River Coal Co.	100 1	03/01/69	den	08/04/86	NO
ND M438	New Leipzig	03/01/69	2872 UN	Knife River Coal Co.	100 1	03/01/69	den	08/04/86	NO
ND M37829	Renner's Cove	03/01/67	322 UN	Consolidation Coal Co.	100 1	09/01/77	seg	09/01/87	NO
NM NM0186612	De Na Zin	08/01/61	2188 AA	Paragon Resources Co.	50 2	11/01/80	ind	11/01/90	YL
NM NM0186615	De Na Zin	08/01/61	2027 AA	Paragon Resources Co.	50 2	11/01/80	ind	11/01/90	YL
NM NM45183	De-Na-Zin exch	09/27/84	928 AA	Paragon Resources Co.	100 1	09/27/84	den	09/27/94	OO
NM NM0510466	La Ventana	07/01/67	2002 AN	IBI Coal Co.	100 1	11/01/77	ind	11/01/87	NM
NM NM0510467	La Ventana	07/01/67	2433 AN	IBI Coal Co.	100 1	11/01/77	ind	11/01/87	NM
NM NM0510468	La Ventana	07/01/67	2505 AN	IBI Coal Co.	100 1	11/01/77	ind	11/01/87	NM
NM NM0555316	La Ventana	02/01/69	160 AN	IBI Coal Co.	100 1	11/01/77	ind	11/01/87	NM
NM NM0555317	La Ventana	12/01/64	2206 AN	IBI Coal Co.	100 1	11/01/77	ind	11/01/87	NM
NM NM057349	McKinley	04/01/61	2513 AA	Gulf Oil Corp.	100 1	04/01/61	den	08/04/86	YM
NM NM057348	McKinley	04/01/61	2485 AA	Gulf Oil Corp.	100 1	04/01/61	den	08/04/86	YM
NM NM054844	McKinley	11/01/64	540 AA	Gulf Oil Corp.	100 1	04/01/61	den	08/04/86	YM
NM NM065466	McKinley	01/01/64	2560 AA	Gulf Oil Corp.	100 1	04/01/61	den	08/04/86	YM
NM SF071448	San Juan	06/11/40	40 AA	Bank of America	100 1	10/01/82	ind	10/01/92	YM
NM NM045197	San Juan	11/01/61	2565 AA	Bank of America	100 1	10/01/82	ind	10/01/92	YM
NM NM045217	San Juan	11/01/61	1800 AA	Bank of America	100 1	10/01/82	ind	10/01/92	YM
NM NM045196	San Juan	11/01/61	2467 AA	Bank of America	100 1	10/01/82	ind	10/01/92	YM
NM NM28093	San Juan	04/01/80	3856 AA	Paragon Resources Co.	50 1	11/01/80	par	11/01/90	OO
NM NM0315559	La Plata	08/01/63	2044 PS	San Juan Coal Co.	100 1	07/01/82	ind	07/01/92	YL
NM NM0186613	Bisti Exchange	08/01/61	1240 RE	Paragon Resources Co.	100 1	11/01/80	ind	/	OO
NM SF048323	Ametex	07/19/29	120 UN	Ametex Corp.	50 2	11/01/80	ind	/	OO
NM NM732	Ametex	02/01/67	160 UN	Ametex Corp.	100 1	02/01/78	ind	02/01/88	NU
NM NM10931	Black Lake	11/01/70	1910 UN	Eastern Coal Properties Inc.	50 2	05/01/72	ind	08/04/86	NM
NM NM52786	Carbon	06/01/83	160 UN	Carbon Coal	100 1	06/01/83	den	06/01/93	OO
NM SF074673	Davis	01/10/41	40 UN	Davis, R.	100 1	07/27/53	ind	08/04/86	NU
NM SF077115	Ingraham	02/27/44	160 UN	Ingraham, F.	100 1	08/01/77	ind	08/01/87	NU
NM SF075321	Padilla	12/11/39	120 UN	Padilla, F.	100 1	10/01/55	ind	08/04/86	NM
NM SF077779	Padilla	05/01/49	40 UN	Padilla, F.	100 1	05/01/49	den	08/04/86	NM

DEVELOPMENT STATUS OF FEDERAL COAL LEASES

STATE SERIAL	BLOCK OR MINE NAME	DATE ISSUED	ACRES DEV. STATUS	LESSEE #1	PCT NO.	DATE ACQUIRED	HOW ACQ.	SEC. 3 DATE	SEC. 3 STATUS
NM SF076644	Simmons	05/10/44	80 UN	Simmons, J.	100 1	02/01/58	ind	08/04/86	NU
NM NM2457	Star Lake	09/01/67	6336 UN	Peabody Coal Co.	50 2	12/01/74	ind	08/04/86	NM
NM SF066817	Texas Ind.	01/25/35	120 UN	Santa Fe Mining Co.	100 1	07/01/82	ind	07/01/92	NM
NM SF042800	Urtado	04/08/24	41 UN	Santa Fe Mining Co.	100 1	07/01/82	ind	07/01/92	NM
OK BLMC035068	Bokoshe	10/01/53	3470 AI	Cf&I Steel Corp.	100 1	03/01/78	ind	03/01/88	YM
OK NM24005	McCurtain No. 2	12/01/79	140 AM	Great National Corp.	100 1	12/01/79	den	12/01/89	YD
OK BLMC018820	Milton	03/21/49	915 AM	Lone Star Steel Co.	100 1	07/01/56	ind	08/04/86	YD
OK NM059992	Milton	06/01/59	1680 AM	Lone Star Steel Co.	100 1	06/01/59	den	08/04/86	YD
OK BLMC021851	Starlight	08/01/51	1500 AM	Lone Star Steel Co.	100 1	08/01/51	den	08/04/86	YD
OK BLMC030953	Stigler	09/01/58	961 AM	Garland Coal & Mining Co.	100 1	08/10/83	den	08/10/93	YD
OK NH3174	Block 25	05/01/68	2840 PS	P.I.I. West Ltd.	100 1	02/01/83	par	02/01/93	YL
OK BLMC031135	Gail (Block 17)	05/01/56	1180 PS	K&R Coal Co.	100 1	11/18/81	ind	11/19/91	YL
OK NM0557450	Ozark (Block 15)	09/01/65	880 PS	Howe Coal Co.	100 1	07/01/83	ind	07/01/93	YL
OK BLMC028370	Block 13	05/01/56	240 R	Garland Coal & Mining Co.	100 1	03/21/80	rel	/ /	OO
OK BLMC027239	Block 16	08/04/53	880 R	Hall, H.	100 1	07/01/83	rel	/ /	OO
OK BLMC031985	Block 1	12/01/57	1844 UP	Farrell Cooper Mining Co.	100 1	05/01/84	ind	05/01/94	OH
OK BLMC032614	Block 1	02/01/58	1000 UN	Farrell Cooper Mining Co.	100 1	05/01/84	ind	05/01/94	OH
OK NH033722	Block 1	02/01/62	2552 UN	Farrell Cooper Mining Co.	100 1	05/01/84	ind	05/01/94	OH
OK NH033723	Block 1	03/01/62	2520 UN	Farrell Cooper Mining Co.	100 1	05/01/84	ind	05/01/94	OH
OK NH036953	Block 1	05/01/63	1160 UN	Farrell Cooper Mining Co.	100 1	05/01/84	ind	05/01/94	OH
OK NH0536361	Block 10	06/01/64	561 UN	Freeman-United Mining Co.	100 1	06/01/64	den	08/04/86	NU
OK BLMC022999	Block 12	10/01/69	1385 UP	Garland Coal & Mining Co.	100 1	02/01/68	ind	08/04/86	NM
OK BLM1018074	Block 15	09/01/61	326 UP	Howe Coal Co.	100 1	07/01/83	ind	07/01/93	OH
OK NH025632	Block 15	09/01/61	2266 UP	Howe Coal Co.	100 1	07/01/83	ind	07/01/93	OH
OK NH033866	Block 15	03/01/62	2048 UP	Howe Coal Co.	100 1	07/01/83	ind	07/01/93	OH
OK NH034521	Block 15	03/01/62	2544 UN	Howe Coal Co.	100 1	07/01/83	ind	07/01/93	OH
OK NH0556624	Block 15	11/01/70	4375 UN	Howe Coal Co.	100 1	06/01/72	ind	08/04/86	NU
OK NH0161332	Block 18	12/01/61	2557 UP	Gaither, K.	100 1	05/01/62	den	08/04/86	NM
OK BLM1017683	Block 2	02/09/68	2560 UP	Cameron Coal Co.	100 1	11/24/50	den	08/04/86	NM
OK NH029891	Block 2	05/01/62	960 UP	Cameron Coal Co.	100 1	05/01/62	den	08/04/86	NM
OK NH029892	Block 2	05/01/62	944 UP	Cameron Coal Co.	100 1	05/01/62	den	08/04/86	NM
OK BLM1018108	Block 2	09/25/69	960 UP	The Pacola Co.	100 1	06/28/50	den	08/04/86	NM
OK NH050405	Block 21	12/01/59	1116 UP	Lone Star Steel Co.	100 1	12/01/59	den	08/04/86	NU
OK BLMC018125	Block 22	09/01/50	2560 UN	Lone Star Steel Co.	100 1	09/01/50	den	08/04/86	NM
OK NH050406	Block 22	12/01/59	2400 UN	Lone Star Steel Co.	100 1	12/01/59	den	08/04/86	NM
OK NH059996	Block 23	04/01/60	719 UN	Lone Star Steel Co.	100 1	06/01/75	ind	08/04/86	NU
OK NH957	Block 26	09/01/67	3342 UN	P.I.I. West Ltd.	100 1	02/01/83	par	02/01/93	NU
OK NH0141015	Block 3	07/01/62	360 UN	Cari International Mining Corp	100 1	05/01/76	ind	08/04/86	NM
OK BLMC022012	Block 4	08/10/53	794 UN	Evans Coal Co.	100 1	08/01/53	den	08/04/86	NM
OK BLMC028799	Block 4	05/01/56	640 UN	Evans Coal Co.	100 1	05/01/56	den	08/04/86	NM
OK BLMC032224	Block 4	03/01/54	400 UP	Evans Coal Co.	100 1	03/01/54	den	08/04/86	NM

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OK	BLM1017564	Block 4	09/07/68	1347 UP	Evans Coal Co.	100 1	10/01/50	ind	08/04/86	NM
OK	NM023555	Block 4 & 5	02/01/61	2560 UN	Evans Coal Co.	100 1	03/01/76	ind	08/04/86	NM
OK	NM023556	Block 5	02/01/61	1687 UN	Evans Coal Co.	100 1	03/01/76	ind	08/04/86	NM
OK	BLMC028369	Block 6	07/01/52	1000 UP	Evans Coal Co.	100 1	04/01/78	ind	04/01/88	NU
OK	BLM1017612	Block 7	03/08/70	1869 UP	Evans Coal Co.	100 1	03/01/50	den	08/04/86	NM
OK	BLMC029794	Block 8	04/01/56	2479 UN	Evans Coal Co.	100 1	03/01/68	ind	08/04/86	NU
OK	BLMC030584	Block 9	09/01/56	2551 UN	Evans Coal Co.	100 1	03/01/68	ind	08/04/86	NU
OK	BLMC031611	Block 9	10/01/56	2530 UN	Evans Coal Co.	100 1	03/01/68	ind	08/04/86	NU
OK	NM50270	Bokoshe NP	05/01/82	80 UN	Bokoshe Coal Company	100 1	05/01/82	den	05/01/92	OO
OK	NM50936	Farrell Cooper NP	02/01/83	1170 UN	Farrell Cooper Mining Co.	100 1	02/01/83	den	02/01/93	OO
OK	NM3099	Gaither NP	02/01/82	5707 UN	Gaither, Kenneth R.	100 1	02/01/82	den	02/01/92	OO
OK	NM50410	HFCO NP	09/01/83	98 UN	HFCO, Inc.	100 1	09/01/83	den	09/01/93	OO
OK	NM44130	Lone Star NP	04/01/82	200 UN	Lone Star Steel Co.	100 1	04/01/82	den	04/01/92	OO
OK	BLM1017902	Rees-Milton	09/25/69	680 UP	Mining Systems Corp.	100 1	12/01/76	ind	12/01/86	NU
OR	OR012472	Eden Ridge	06/01/62	2354 UN	Eden Ridge Coal Co.	100 1	06/01/62	den	08/04/86	NM
OR	OR03520	Eden Ridge	01/19/59	2520 UN	Eden Ridge Coal Co.	100 1	01/19/59	den	08/04/86	NM
OR	OR05272	Mandrone	06/01/57	538 UP	CPS Mining Co, Inc.	100 1	/ /	ind	08/04/86	NU
PA	ES9403	Helen Mining	07/01/74	30 AA	Helen Mining Co.	100 1	07/01/74	den	08/04/86	YM
PA	ES13845	Helen Mining	07/01/74	51 AA	Helen Mining Co.	100 1	07/01/74	den	08/04/86	YM
UT	SL063011	C&W No. 1	11/28/41	280 AN	Wasatch Coal Co.	100 1	07/01/76	ind	08/04/86	QM
UT	SL027304	Centennial Project	09/01/25	120 AA	AMCA Coal Leasing, Inc.	100 1	11/01/76	par	11/01/86	YM
UT	SL063058	Centennial Project	08/03/42	240 AA	AMCA Coal Leasing, Inc.	100 1	11/01/76	par	11/01/86	YM
UT	U010581	Centennial Project	02/01/56	1682 AA	AMCA Coal Leasing, Inc.	100 1	11/01/76	par	11/01/86	YM
UT	U52341	Deer Creek-Wilberg	12/01/83	120 AA	AMCA Coal Leasing, Inc.	100 1	12/01/83	den	12/01/93	OO
UT	U1358	Deer Creek-Wilberg	08/01/67	320 AA	Utah Power & Light Co.	100 1	09/01/77	ind	09/01/87	YM
UT	SL064607	Deer Creek-Wilberg	10/04/46	614 AA	Utah Power & Light Co.	100 1	09/01/77	ind	09/01/87	YM
UT	SL064900	Deer Creek-Wilberg	02/03/45	160 AA	Utah Power & Light Co.	100 1	09/01/77	ind	09/01/87	YM
UT	U040151	Deer Creek-Wilberg	01/03/62	1720 AA	Corp. of the Presiding Bishop	100 1	03/01/62	den	08/04/86	YM
UT	U083066	Deer Creek-Wilberg	03/01/61	1285 AA	Corp. of the Presiding Bishop	100 1	03/01/62	den	08/04/86	YM
UT	U044025	Deer Creek-Wilberg	01/08/60	40 AA	Corp. of the Presiding Bishop	100 1	08/01/60	den	08/04/86	YM
UT	U084923	Deer Creek-Wilberg	08/01/64	2252 AA	McKinnon Trusts	100 1	08/01/64	den	08/04/86	YM
UT	U084924	Deer Creek-Wilberg	08/01/64	1211 AA	McKinnon Trusts	100 1	08/01/64	den	08/04/86	YM
UT	SL070645	Deer Creek-Wilberg	04/01/52	2560 AA	McKinnon Trusts	100 1	04/01/52	den	08/04/86	YM
UT	U02664	Des-Bee-Dove	01/01/57	920 AA	McKinnon Trusts	100 1	07/01/72	ind	08/04/86	YM
UT	SL050133	Des-Bee-Dove	08/01/33	80 AA	Utah Power & Light Co.	100 1	07/01/72	ind	08/04/86	YM
UT	SL066116	Des-Bee-Dove	06/01/55	400 AA	Utah Power & Light Co.	100 1	07/01/76	ind	09/01/87	YM
UT	U5287	Emery Deep	07/01/70	720 AA	Consolidation Coal Co.	50 2	07/01/70	den	08/04/86	QC
UT	U073040	Emery Field (#8)	06/01/62	2542 AA	Consolidation Coal Co.	50 2	10/01/66	par	08/04/86	QC
UT	U073041	Emery Field (#8)	06/01/62	2558 AA	Consolidation Coal Co.	50 2	06/01/62	den	08/04/86	QC
UT	U0101213	Emery Field (#8)	06/01/65	2162 AA	Consolidation Coal Co.	50 2	06/01/65	den	08/04/86	QC
UT	U0101214	Emery Field (#8)	06/01/65	2314 AA	Consolidation Coal Co.	50 2	06/01/65	den	08/04/86	QC

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UT U0101215	Emery Field (#8)	06/01/65	856 AA	Consolidation Coal Co.	50 2	06/01/65	den	08/04/86 QC	
UT U0101217	Emery Field (#8)	06/01/65	640 AA	Consolidation Coal Co.	50 2	06/01/65	den	08/04/86 QC	
UT U0101218	Emery Field (#8)	06/01/65	1880 AA	Consolidation Coal Co.	50 2	06/01/65	den	08/04/86 QC	
UT U090231	Emery Field (#8)	11/01/62	2497 AA	Consolidation Coal Co.	50 2	10/01/66	par	08/04/86 QC	
UT U073039	Emery Field (#8)	06/01/62	2577 AA	Consolidation Coal Co.	50 2	10/01/66	par	08/04/86 QC	
UT SL046612	Geneva	04/02/29	280 AI	U.S. Steel Corp.	100 1	03/28/31	den	08/04/86 YM	
UT SL066145	Geneva	06/19/46	1552 AI	U.S. Steel Corp.	100 1	06/19/46	den	08/04/86 YM	
UT U47975	Gordon Ck/Belina	12/01/81	3628 AA	Kanawha Hocking Coal & Coke	100 1	12/01/81	den	12/01/91 OO	
UT U8319	Gordon Creek #2	03/01/70	962 AA	Beaver Creek Coal Co.	100 1	05/01/76	ind	08/04/86 YM	
UT SL025431	Hiawatha	02/08/23	2370 AA	United States Fuel Co.	100 1	02/08/23	den	08/04/86 YM	
UT SL069985	Hiawatha	11/01/49	2356 AA	United States Fuel Co.	100 1	11/01/49	den	08/04/86 YM	
UT SL064903	Hiawatha	02/01/61	1000 AA	United States Fuel Co.	100 1	02/01/61	den	08/04/86 YM	
UT U026583	Huntington Canyon	01/24/46	160 AI	Beaver Creek Coal Co.	100 1	06/01/76	ind	08/04/86 YM	
UT U03454	Huntington Canyon	12/01/78	440 AI	Beaver Creek Coal Co.	100 1	12/01/78	den	12/01/88 OO	
UT SL050641	Huntington Canyon	12/06/38	160 AI	Intermountain Exploration Co.	100 1	06/01/73	ind	08/04/86 YM	
UT U53159	Pinnacle ?	12/01/81	656 AA	Beaver Creek Coal Co.	100 1	12/01/81	den	12/01/91 OO	
UT U058184	Price River Complex	06/17/21	694 AI	Blackhawk Coal Co.	100 1	02/01/76	ind	08/04/86 YM	
UT SL071737	Price River Complex	09/01/50	1960 AI	Blackhawk Coal Co.	100 1	06/01/76	ind	08/04/86 YM	
UT U25484	Price River Complex	06/17/21	634 AI	Blackhawk Coal Co.	100 1	02/01/76	ind	08/04/86 YM	
UT U019524	Price River Complex	06/01/57	645 AI	Blackhawk Coal Co.	100 1	02/01/76	ind	08/04/86 YM	
UT U0148779	Price River Complex	08/01/66	1240 AI	Blackhawk Coal Co.	100 1	09/01/74	ind	08/04/86 YM	
UT U0146345	Price River Complex	11/01/65	1160 AI	Blackhawk Coal Co.	100 1	09/01/74	ind	08/04/86 YM	
UT SL046652	Price River Complex	08/03/21	802 AI	Blackhawk Coal Co.	100 1	09/01/74	ind	08/04/86 YM	
UT SL048442	Price River Complex	11/21/50	2563 AI	Blackhawk Coal Co.	100 1	09/01/74	ind	08/04/86 YM	
UT SL029093	Price River Complex	06/17/21	1284 AI	Blackhawk Coal Co.	100 1	06/01/76	ind	08/04/86 YM	
UT U25683	Price River Complex	12/01/79	1173 AI	Blackhawk Coal Co.	100 1	07/01/80	ind	07/01/90 OO	
UT U25485	Price River Complex	09/01/50	543 AI	Blackhawk Coal Co.	100 1	02/01/76	ind	08/04/86 YM	
UT SL062583	SUF0	09/11/41	2200 AA	Coastal States Energy Co.	100 1	05/25/45	ind	08/04/86 YM	
UT U062453	SUF0	03/01/62	480 AA	Coastal States Energy Co.	66 2	03/01/79	par	03/01/89 YM	
UT U0149084	SUF0	06/01/66	240 AA	Coastal States Energy Co.	100 1	06/01/66	den	08/04/86 YM	
UT U28297	SUF0	01/01/79	2632 AA	Coastal States Energy Co.	100 1	01/01/79	den	01/01/89 OO	
UT U07746	Sage Point	06/03/57	2480 AN	Sunoco Energy Development Co.	50 2	06/01/82	par	06/01/92 QM	
UT U089096	Sage Point	07/01/62	480 AN	Sunoco Energy Development Co.	100 1	06/01/82	ind	06/01/92 QM	
UT U092147	Sage Point	12/01/62	680 AN	Sunoco Energy Development Co.	100 1	06/01/82	ind	06/01/92 QM	
UT U0144820	Sage Point	09/01/66	2212 AN	Sunoco Energy Development Co.	100 1	06/01/82	ind	06/01/92 QM	
UT U07064	Sage Point	01/01/57	2416 AN	Sunoco Energy Development Co.	100 1	06/01/82	ind	06/01/92 QM	
UT U073120	Skyline	02/01/64	557 AA	Kanawha & Hocking Coal & Coke	100 1	09/01/73	ind	08/04/86 YM	
UT U0142235	Skyline	10/01/64	520 AA	Coastal States Energy Co.	100 1	03/01/83	ind	03/01/93 YM	
UT U0147570	Skyline	05/01/66	2093 AA	Coastal States Energy Co.	100 1	03/01/83	ind	03/01/93 YM	
UT SL051279	Soldier Canyon	01/04/35	1548 AA	California Portland Cement Co.	100 1	12/01/62	ind	08/04/86 YM	
UT U50722	Soldier Canyon	09/01/82	400 AA	Soldier Creek Coal Co.	100 1	09/01/82	den	09/01/92 OO	

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UT U7949	Star Point 1&2	09/04/70	1631 AA	Getty Mining Co.	100 1	09/01/70	den	08/04/86	YM
UT SL031286	Star Point 1&2	09/01/70	240 AA	Getty Mining Co.	100 1	11/01/71	ind	08/04/86	YM
UT U37045	Star Point 1&2	04/01/80	698 AA	Getty Mining Co.	100 1	04/01/80	den	04/01/90	OO
UT U13097	Star Point 1&2	05/01/74	1360 AA	Getty Mining Co.	100 1	05/01/74	den	08/04/86	YM
UT SL062966	Sunnyside1,2&3	11/12/43	1367 AA	Kaiser Steel Corp.	100 1	01/21/41	den	08/04/86	YM
UT U32083	Sunnyside1,2&3	03/01/79	476 AA	Kaiser Steel Corp.	100 1	03/01/79	den	03/01/89	OO
UT U082996	Trail Mt.	07/01/62	80 AI	Bell, J.	100 1	04/01/75	ind	08/04/86	YM
UT U067498	Valley Camp (O'Connor)	01/01/62	502 AA	Kanawha & Hocking Coal & Coke	100 1	09/01/73	ind	08/04/86	YM
UT U017354	Valley Camp Complex	09/01/56	1028 AA	Kanawha & Hocking Coal & Coke	100 1	09/01/73	ind	08/04/86	YM
UT U044076	Valley Camp Complex	09/01/65	2368 AA	Coastal States Energy Co.	100 1	03/01/83	ind	03/01/93	YM
UT U020305	Valley Camp Complex	09/01/56	1439 AA	Coastal States Energy Co.	100 1	03/01/83	ind	03/01/93	YM
UT U47974	Valley Camp Complex	12/01/81	1999 AA	Kanawha & Hocking Coal & Coke	100 1	12/01/81	den	12/01/91	OO
UT U47978	Wilberg (Cottonwood NP)	10/01/81	3347 AA	Utah Power & Light	100 1	10/01/81	den	10/01/91	OO
UT U47979	Wilberg (Meetinghouse NP)	10/01/81	1063 AA	Utah Power & Light	100 1	10/01/81	den	10/01/91	OO
UT U0105404	Alton East	06/01/65	1529 PN	Utah International, Inc.	100 1	06/01/66	ind	08/04/86	NM
UT U0122579	Alton East	05/01/68	1120 PN	Utah International, Inc.	100 1	05/01/68	den	08/04/86	NM
UT U0122584	Alton East	11/01/68	320 PN	Utah International, Inc.	100 1	11/01/68	den	08/04/86	NM
UT U0122675	Alton East	11/01/68	80 PN	Utah International, Inc.	100 1	11/01/68	den	08/04/86	NM
UT U0126916	Alton East	11/01/68	320 PN	Utah International, Inc.	100 1	11/01/68	den	08/04/86	NM
UT U0140770	Alton East	01/01/65	519 PN	Utah International, Inc.	100 1	01/01/65	den	08/04/86	NM
UT U0147999	Alton East	05/01/65	320 PN	Utah International, Inc.	100 1	10/18/71	den	08/04/86	NM
UT U098774	Alton East	06/01/65	2488 PN	Utah International, Inc.	100 1	06/01/66	ind	08/04/86	NM
UT U098775	Alton East	06/01/66	1599 PN	Utah International, Inc.	100 1	06/01/66	ind	08/04/86	NM
UT SL058575	Alton West	10/11/36	156 PN	Nevada Electric Investment Co.	100 1	05/01/71	ind	08/04/86	NM
UT U060745	Alton West	11/01/61	2493 PN	Nevada Electric Investment Co.	100 1	11/01/61	den	08/04/86	NM
UT U060746	Alton West	11/01/61	2324 PN	Nevada Electric Investment Co.	100 1	11/01/61	den	08/04/86	NM
UT U065012	Alton West	11/01/61	755 PN	Nevada Electric Investment Co.	100 1	11/01/61	den	08/04/86	NM
UT U083072	Alton West	07/01/62	1040 PN	Nevada Electric Investment Co.	100 1	07/01/62	den	08/04/86	NM
UT SL068754	B Canyon	06/01/51	2571 PN	Royal Land Co.	100 1	01/01/83	ind	01/01/93	GM
UT U02785	C Canyon	07/01/52	2360 PN	Kaiser Steel Corp.	100 1	05/01/65	ind	08/04/86	NM
UT U039706	C Canyon	07/01/60	2559 PN	Kaiser Steel Corp.	100 1	05/01/65	ind	08/04/86	NM
UT U47977	Rilda Canyon	10/01/82	640 PN	W.A. Land Company	100 1	10/01/82	den	10/01/92	OO
UT SL050862	Rilda Canyon (#13)	08/05/37	280 PN	W.A. Land Company	100 1	06/01/83	ind	06/01/93	NM
UT U7653	Rilda Canyon (#6)	09/01/70	412 PN	Carroll County Coal Co.	100 1	09/01/70	den	08/04/86	NM
UT SL050655	Emery (#10A)	11/17/38	80 R	Gent's Flying Enterprises	100 1	/ /	rel	/ /	OO
UT U0103108	Kaiparowits	03/01/67	2560 RP	Peabody Coal Co.	100 1	07/01/67	ind	08/04/86	OO
UT U0103131	Kaiparowits	04/01/67	2560 RP	Peabody Coal Co.	100 1	07/01/67	ind	08/04/86	OO
UT U0103132	Kaiparowits	04/01/67	1272 RP	Peabody Coal Co.	100 1	07/01/67	ind	08/04/86	OO
UT U0103133	Kaiparowits	04/01/67	1273 RP	Peabody Coal Co.	100 1	07/01/67	ind	08/04/86	OO
UT U0115656	Kaiparowits	11/01/67	2560 RP	Peabody Coal Co.	100 1	09/01/67	den	08/04/86	OO
UT U0115657	Kaiparowits	11/01/67	2560 RP	Peabody Coal Co.	100 1	09/01/67	den	08/04/86	OO

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UT	U096476	Kaiparowits	03/01/67	2552 RP	Peabody Coal Co.	100 1	07/01/67	ind	08/04/86	00
UT	U096477	Kaiparowits	03/01/67	1277 RP	Peabody Coal Co.	100 1	07/01/67	ind	08/04/86	00
UT	U098786	Kaiparowits	03/01/67	2550 RP	Peabody Coal Co.	100 1	07/01/67	ind	08/04/86	00
UT	U0101140	Kaiparowits	04/01/67	1600 RP	Peabody Coal Co.	100 1	07/01/67	ind	08/04/86	00
UT	U0101141	Kaiparowits	04/01/67	1760 RP	Peabody Coal Co.	100 1	07/01/67	ind	08/04/86	00
UT	U0113254	Kaiparowits	08/01/67	160 RP	Peabody Coal Co.	100 1	08/01/67	den	08/04/86	00
UT	SL062648	Tip Top (Crandal Canyon)	01/31/31	80 R	Gent's Flying Enterprises	100 1	/ /	rel	/ /	00
UT	U49332	?	03/01/83	642 UN	W.K. Minerals, Inc.	100 1	03/01/83	den	03/01/93	00
UT	U47080	?	10/01/81	1158 UN	Coastal States Energy Co.	100 1	10/01/81	den	10/01/91	00
UT	U0115938	Alton East	06/01/65	1721 UN	Utah International, Inc.	100 1	06/01/66	ind	08/04/86	NM
UT	U0122582	Alton East	11/01/68	582 UN	Utah International, Inc.	100 1	11/01/68	den	08/04/86	NM
UT	U0122583	Alton East	11/01/68	320 UN	Utah International, Inc.	100 1	11/01/68	den	08/04/86	NM
UT	U0122623	Alton East	04/01/66	280 UN	Utah International, Inc.	100 1	06/01/66	ind	08/04/86	NM
UT	U0122647	Alton East	11/01/68	600 UN	Utah International, Inc.	100 1	11/01/68	den	08/04/86	NM
UT	U0122649	Alton East	11/01/68	840 UN	Utah International, Inc.	100 1	11/01/68	den	08/04/86	NM
UT	U0122650	Alton East	11/01/68	1600 UN	Utah International, Inc.	100 1	11/01/68	den	08/04/86	NM
UT	U0122651	Alton East	11/01/68	1080 UN	Utah International, Inc.	100 1	11/01/68	den	08/04/86	NM
UT	U0124768	Alton East	11/01/68	200 UN	Utah International, Inc.	100 1	11/01/68	den	08/04/86	NM
UT	U0149582	Alton East	09/01/66	560 UN	Utah International, Inc.	100 1	09/01/66	den	08/04/86	NM
UT	SL064507	Alton West	11/01/44	320 UN	Nevada Electric Investment Co.	100 1	04/01/63	ind	08/04/86	NM
UT	U0101153	Alton West	05/01/63	1000 UN	Nevada Electric Investment Co.	100 1	05/01/63	den	08/04/86	NM
UT	U098705	Alton West	05/01/63	2287 UN	Nevada Electric Investment Co.	100 1	05/01/63	den	08/04/86	NM
UT	SL063720	Carbon Emery Bank (#1)	12/17/42	200 UP	Brigham Young University	100 1	03/01/84	ind	03/01/94	NU
UT	U024814	Carbon Emery Bank (#1)	01/01/58	37 UN	Brigham Young University	100 1	03/01/84	ind	03/01/94	NU
UT	U08606	Carbon Emery Bank (#1)	10/01/53	40 UN	Brigham Young University	100 1	03/01/84	ind	03/01/94	NU
UT	U020641	Columbo	05/01/61	1909 UN	Beaver Creek Coal Co.	100 1	09/08/78	ind	09/08/88	NM
UT	U024316	Emery (#148)	05/01/58	1400 UN	COP Coal Development Co.	100 1	09/01/80	ind	09/01/90	NM
UT	U46484	Emery (#1482)	05/01/58	400 UN	Northwest Carbon Co.	100 1	05/01/58	den	08/04/86	NM
UT	SL051221	Emery (#15A)	08/01/53	80 UP	Utah Power & Light Co.	100 1	01/01/80	ind	01/01/90	NM
UT	U014275	Emery (#15A)	10/01/55	80 UP	Utah Power & Light Co.	100 1	01/01/80	ind	01/01/90	NM
UT	U024317	Emery (#15A)	05/01/58	400 UN	Utah Power & Light Co.	100 1	01/01/80	ind	01/01/90	NM
UT	U024319	Emery (#15A)	05/01/58	1040 UN	Utah Power & Light Co.	100 1	01/01/80	ind	01/01/90	NM
UT	U06039	Emery (#15A)	05/01/53	1360 UN	Utah Power & Light Co.	100 1	01/01/80	ind	01/01/90	NM
UT	U024318	Emery (#15B)	05/01/58	80 UN	COP Coal Development Co.	100 1	09/01/80	ind	09/01/90	NM
UT	U5146	Emery PRLA	04/01/83	2563 UN	Mountain States Resource Corp.	100 1	04/01/83	den	04/01/93	00
UT	U7958	Euclyate PRLA	12/01/81	3795 UN	Emery Energy, Inc.	100 1	12/01/81	den	12/01/91	00
UT	U05067	Eureka Emery (#2)	05/01/52	320 UP	Sunoco Energy Development Co.	100 1	06/01/82	ind	06/01/92	NM
UT	SL048223	Frandsen (#19A)	04/05/30	120 UP	Utah Power & Light Co.	100 1	07/01/82	ind	07/01/92	NU
UT	SL050638	Frandsen (#19B)	05/10/41	40 UP	Frandsen, G.	100 1	01/01/47	ind	08/04/86	NU
UT	U087805	Kaiparowits No. 1-5	11/01/65	2064 UN	Malapai Resources Co.	33 3	11/01/65	den	08/04/86	NM

DEVELOPMENT STATUS OF FEDERAL COAL LEASES

STATE SERIAL	BLOCK OR MINE NAME	DATE ISSUED	ACRES DEV. STATUS	LESSEE #1	PCT NO. LESSEES	DATE ACQUIRED	HOW ACQUIRED	SEC. 3 DATE	SEC. 3 STATUS
UT U087806	Kaiparowits No. 1-5	11/01/65	1945 UN	Malapai Resources Co.	33 3	11/01/65	den	08/04/86	NM
UT U087807	Kaiparowits No. 1-5	11/01/65	1920 UN	Malapai Resources Co.	33 3	11/01/65	den	08/04/86	NM
UT U087828	Kaiparowits No. 1-5	11/01/65	2560 UN	Malapai Resources Co.	33 3	11/01/65	den	08/04/86	NM
UT U087833	Kaiparowits No. 1-5	11/01/65	2518 UN	Malapai Resources Co.	33 3	11/01/65	den	08/04/86	NM
UT U087834	Kaiparowits No. 1-5	11/01/65	2560 UN	Malapai Resources Co.	33 3	11/01/65	den	08/04/86	NM
UT U087835	Kaiparowits No. 1-5	11/01/65	1920 UN	Malapai Resources Co.	33 3	11/01/65	den	08/04/86	NM
UT U087836	Kaiparowits No. 1-5	11/01/65	640 UN	Malapai Resources Co.	33 3	11/01/65	den	08/04/86	NM
UT U092138	Kaiparowits No. 1-5	11/01/65	1891 UN	Malapai Resources Co.	33 3	11/01/65	den	08/04/86	NM
UT U092139	Kaiparowits No. 1-5	11/01/65	1935 UN	Malapai Resources Co.	33 3	11/01/65	den	08/04/86	NM
UT U092140	Kaiparowits No. 1-5	11/01/65	2022 UN	Malapai Resources Co.	33 3	11/01/65	den	08/04/86	NM
UT U092141	Kaiparowits No. 1-5	11/01/65	1972 UN	Malapai Resources Co.	33 3	11/01/65	den	08/04/86	NM
UT U092142	Kaiparowits No. 1-5	11/01/65	1750 UN	Malapai Resources Co.	33 3	11/01/65	den	08/04/86	NM
UT U096486	Kaiparowits No. 1-5	11/01/65	640 UN	Malapai Resources Co.	33 3	11/01/65	den	08/04/86	NM
UT U096494	Kaiparowits No. 1-5	11/01/65	2560 UN	Malapai Resources Co.	33 3	11/01/65	den	08/04/86	NM
UT U096495	Kaiparowits No. 1-5	11/01/65	2560 UN	Malapai Resources Co.	33 3	11/01/65	den	08/04/86	NM
UT U096496	Kaiparowits No. 1-5	11/01/65	2560 UN	Malapai Resources Co.	33 3	11/01/65	den	08/04/86	NM
UT U096497	Kaiparowits No. 1-5	11/01/65	2560 UN	Malapai Resources Co.	33 3	11/01/65	den	08/04/86	NM
UT U096508	Kaiparowits No. 1-5	04/01/66	658 UN	Malapai Resources Co.	33 3	11/01/65	den	08/04/86	NM
UT U096509	Kaiparowits No. 1-5	11/01/65	1479 UN	Malapai Resources Co.	33 3	11/01/65	den	08/04/86	NM
UT U0101142	Kaiparowits No. 1-5	04/01/67	1562 UN	Malapai Resources Co.	33 3	11/01/65	den	08/04/86	NM
UT U1362	Kaiparowits PRLA	02/01/82	18325 UN	Utah Power & Light	100 1	02/01/82	den	02/01/92	OO
UT U0103107	Kaiparowits Plateau (#21)	09/01/67	2560 UN	Consolidation Coal Co.	100 1	03/01/68	ind	08/04/86	NM
UT U0103109	Kaiparowits Plateau (#21)	09/01/67	2557 UN	Consolidation Coal Co.	100 1	03/01/68	ind	08/04/86	NM
UT U0103129	Kaiparowits Plateau (#21)	09/01/67	2560 UN	Consolidation Coal Co.	100 1	03/01/68	ind	08/04/86	NM
UT U0103130	Kaiparowits Plateau (#21)	09/01/67	2554 UN	Consolidation Coal Co.	100 1	03/01/68	ind	08/04/86	NM
UT U0105418	Kaiparowits Plateau (#21)	09/01/67	2560 UN	Consolidation Coal Co.	100 1	03/01/68	ind	08/04/86	NM
UT U0149373	Kaiparowits Plateau (#21)	01/01/59	2560 UN	Consolidation Coal Co.	100 1	03/01/68	ind	08/04/86	NM
UT U098783	Kaiparowits Plateau (#21)	05/01/67	2541 UN	Consolidation Coal Co.	100 1	03/01/68	ind	08/04/86	NM
UT U098784	Kaiparowits Plateau (#21)	05/01/67	2538 UN	Consolidation Coal Co.	100 1	03/01/68	ind	08/04/86	NM
UT U098785	Kaiparowits Plateau (#21)	05/01/67	2543 UN	Consolidation Coal Co.	100 1	03/01/68	ind	08/04/86	NM
UT U098787	Kaiparowits Plateau (#21)	05/01/67	2560 UN	Consolidation Coal Co.	100 1	03/01/68	ind	08/04/86	NM
UT U083000	Kane Co. (#22)	12/01/64	1440 UN	Swanton Energy Resources Co.	100 1	08/01/83	ind	08/01/93	NU
UT SL050619	King Cannel	06/01/38	240 UP	King Cannel Coal Co.	100 1	01/04/41	ind	08/04/86	NU
UT U50044	Kingston	07/01/83	160 UN	Consolidation Coal Co.	100 1	07/01/83	den	07/01/93	OO
UT U022918	Kingston (#7)	04/01/58	120 UN	Kingston, C. & J.	100 2	05/01/59	ind	08/04/86	NU
UT U020668	Nev. Elec. (#14A)	05/01/58	627 UN	Beaver Creek Coal Co.	100 1	08/01/83	ind	08/01/93	NM
UT U38727	Nev. Elec. (#14A)	05/01/58	740 UN	Beaver Creek Coal Co.	100 1	08/01/83	ind	08/01/93	NM
UT SL066490	North Tract	12/31/47	2440 UP	Kaiser Steel Corp.	100 1	12/31/47	den	08/04/86	NM
UT SL069291	North Tract	04/01/50	600 UN	Kaiser Steel Corp.	100 1	04/01/50	den	08/04/86	NM
UT U0126947	North Tract	12/01/63	1992 UN	Kaiser Steel Corp.	100 1	12/01/63	den	08/04/86	NM
UT U0126948	North Tract	12/01/63	2523 UN	Kaiser Steel Corp.	100 1	12/01/63	den	08/04/86	NM

DEVELOPMENT STATUS OF FEDERAL COAL LEASES

STATE	SER. AL	BLOCK OR MINE NAME	DATE ISSUED	ACRES	DEV. STATUS	LESSEE #1	PCT. NO. LESSEES	DATE ACQUIRED	HOW ACQUIRED	SEC. 3 DATE	SEC. 3 STATUS
UT	U014217	North Tract	02/01/55	456 UN		Kaiser Steel Corp.	100 1	02/01/55	den	08/04/86 NM	
UT	U014218	North Tract	02/01/55	320 UN		Kaiser Steel Corp.	100 1	02/01/55	den	08/04/86 NM	
UT	SL049042	Rasmussen	08/14/37	40 UP		Rasmussen, A. & V.	100 2	12/02/53	ind	08/04/86 NU	
UT	U0115791	Red & Blue	07/01/67	2560 UN		Swanton Energy Resources Co.	100 1	01/01/84	ind	01/01/94 NM	
UT	U0115792	Red & Blue	10/01/67	1280 UN		Swanton Energy Resources Co.	100 1	01/01/84	ind	01/01/94 NM	
UT	U0115793	Red & Blue	07/01/67	1280 UN		Swanton Energy Resources Co.	100 1	01/01/84	ind	01/01/94 NM	
UT	U0115833	Red & Blue	10/01/67	640 UN		Swanton Energy Resources Co.	100 1	01/01/84	ind	01/01/94 NM	
UT	U0130986	Red & Blue	10/01/67	2562 UN		Swanton Energy Resources Co.	100 1	01/01/84	ind	01/01/94 NM	
UT	U0130988	Red & Blue	07/01/67	1907 UN		Swanton Energy Resources Co.	100 1	01/01/84	ind	01/01/94 NM	
UT	U0130989	Red & Blue	10/01/67	2560 UN		Swanton Energy Resources Co.	100 1	01/01/84	ind	01/01/94 NM	
UT	U0136512	Red & Blue	10/01/67	1279 UN		Swanton Energy Resources Co.	100 1	01/01/84	ind	01/01/94 NM	
UT	U0140836	Red & Blue	10/01/67	2557 UN		Swanton Energy Resources Co.	100 1	01/01/84	ind	01/01/94 NM	
UT	U0148535	Red & Blue	10/01/67	2553 UN		Swanton Energy Resources Co.	100 1	01/01/84	ind	01/01/94 NM	
UT	U0140837	Red & Blue	10/01/67	1920 UN		Swanton Energy Resources Co.	100 1	01/01/84	ind	01/01/94 NM	
UT	U0130985	Red & Blue	11/01/68	2560 UN		Swanton Energy Resources Co.	100 1	01/01/84	ind	01/01/94 NM	
UT	U24427	Red & Blue	03/01/67	1280 UN		Swanton Energy Resources Co.	100 1	01/01/84	ind	01/01/94 NM	
UT	U27835	Red & Blue	11/01/65	640 UN		Swanton Energy Resources Co.	100 1	01/01/84	ind	01/01/94 NM	
UT	U083005	Red & Blue	08/01/64	640 UN		Swanton Energy Resources Co.	100 1	01/01/84	ind	01/01/94 NM	
UT	U0141171	Rock Canyon	03/01/67	1825 UN		Energy Reserves Group, Inc.	100 1	03/01/79	ind	03/01/89 NM	
UT	U0141176	Rock Canyon	03/01/67	1544 UN		Energy Reserves Group, Inc.	100 1	03/01/79	ind	03/01/89 NM	
UT	U0141178	Rock Canyon	03/01/67	1976 UN		Energy Reserves Group, Inc.	100 1	03/01/79	ind	03/01/89 NM	
UT	U053995	Sevier (#29)	03/01/62	169 UN		Coastal States Energy Co.	66 2	02/01/79	par	02/01/89 NM	
UT	SL071561	Shakespeare	03/01/51	80 UP		Fulton, C.	50 2	08/01/74	ind	08/04/86 NU	
UT	U0141177	Skumpah	03/01/67	2504 UN		Energy Reserves Group, Inc.	100 1	03/01/79	ind	03/01/89 NM	
UT	U2810	Smith-Holladay (#16)	08/01/33	80 UN		Smith-Holladay Associates	100 1	01/01/78	ind	01/01/88 NU	
UT	U0118366	South Nipple Butte	11/01/65	1920 UN		Hiko Bell Mining & Oil Co.	50 2	01/01/79	ind	01/01/89 NM	
UT	U0120794	South Nipple Butte	03/01/66	1920 UN		Hiko Bell Mining & Oil Co.	50 2	01/01/79	ind	01/01/89 NM	
UT	U0146654	South Nipple Butte	12/01/65	2560 UN		Hiko Bell Mining & Oil Co.	50 2	01/01/79	ind	01/01/89 NM	
UT	U47973	Truck Canyon	11/01/82	161 UN		Bishopsgate Coal Corp.	100 1	11/01/82	den	11/01/92 OO	
UT	SL062605	Utah No. 2 (#4)	03/17/39	1053 UP		Kanawha & Hocking Coal & Coke	100 1	09/01/73	ind	08/04/86 NU	
UT	U5135	Ute 1&2	05/01/77	8824 UN		Mountain States Resource Corp.	100 1	08/31/77	den	08/31/87 OO	
UT	U0103141	West	09/01/67	961 UN		West, S.	100 1	09/01/67	den	08/04/86 NU	
UT	SL036407	Wilberg (#12)	09/10/26	80 UP		Wilberg, C.	100 1	05/29/40	ind	08/04/86 NU	
VA	ES24616	Clinchfield	11/07/82	251 AA		Clinchfield Coal	100 1	11/07/82	den	11/07/92 YM	
WA	WASH04322	Centralia	11/01/61	280 AA		Washington Irrigation & Develo	50 2	11/01/61	den	08/04/86 YM	
WA	OR6527	Centralia	04/01/71	241 AA		Washington Irrigation & Develo	50 2	04/01/71	den	08/04/86 YM	
WY	W0321780	Antelope	12/01/66	2908 AS		Antelope Coal Co.	100 1	12/01/66	den	08/04/86 QM	
WY	W0322255	Antelope	12/01/66	1869 AS		Antelope Coal Co.	100 1	06/01/68	den	08/04/86 QM	
WY	B031719	Antelope	11/22/32	40 AS		Resource Development Co.	100 1	05/01/79	ind	05/01/89 QM	
WY	W0317682	Belle Ayr	09/01/65	2360 AA		Meadowlark Farms	100 1	09/01/65	den	08/04/86 YM	
WY	W72282	Belle Ayr	09/01/80	41 AA		Meadowlark Farms	100 1	09/01/80	den	09/01/90 OO	

DEVELOPMENT STATUS OF FEDERAL COAL LEASES

S ' A ' E SERIAL	BLOCK OR MINE NAME	DATE ISSUED	ACRES DEV. STATUS	LESSEE #1	PCT NO.	DATE ACQUIRED	HOW ACQU.	SEC. 3 DATE	SEC. 3 STATUS
WY W80954	Belle Ayr (Cheyenne ex)	10/01/82	1433 AA	Meadowlark Farms, Inc.	100 1	10/01/82	den	10/01/92	OO
WY W78629	Belle Ayr (S.Ducknest)	09/01/82	1154 AA	Meadowlark Farms, Inc.	100 1	09/01/82	den	09/01/92	OO
WY W69981	Bighorn?	04/01/82	360 AA	Big Horn Coal Co.	100 1	04/01/82	den	04/01/92	OO
WY W6266	Black Butte	04/01/76	14902 AA	Black Butte Coal Co.	100 1	04/01/76	den	08/04/86	YM
WY W2313	Black Thunder	12/01/66	5844 AA	Thunder Basin Coal Co.	100 1	07/01/68	ind	08/04/86	YM
WY W36094	Black Thunder	12/01/66	40 AA	Thunder Basin Coal Co.	100 1	07/25/72	seg	08/04/86	YM
WY W0325878	Buckskin	11/01/67	599 AA	Shell Oil Corp.	100 1	05/01/75	ind	08/04/86	YM
WY W78634	Buckskin (Spring Draw)	09/01/82	3687 AA	Shell Oil Corp.	100 1	09/01/82	den	09/01/92	OO
WY W3397	Caballo	12/01/67	5280 AA	Exxon Coal USA	100 1	12/01/67	den	08/04/86	YL
WY W49644	Caballo	09/01/65	80 AA	Exxon Coal USA	100 1	03/01/75	seg	08/04/86	YL
WY W83394	Caballo I-90 exchange	12/01/67	1640 AA	Exxon Coal Resources USA, Inc.	100 1	01/28/83	den	01/28/93	YL
WY W0150169	Carbon #1	01/01/64	640 AI	Ark Land Co.	100 1	01/01/71	ind	08/04/86	QC
WY W3446	Carbon #1	01/01/61	640 AI	Ark Land Co.	100 1	01/01/71	ind	08/04/86	QC
WY W8385	Coal Creek	11/01/67	5806 AA	Thunder Basin Coal Co.	100 1	11/01/67	den	08/04/86	YL
WY W054769	Cordero	03/01/71	6560 AA	Sunoco Energy Development Co.	100 1	03/01/71	den	08/04/86	YM
WY W0244167	Dave Johnston	05/31/33	120 AA	Pacific Power & Light Co.	100 1	01/01/66	ind	08/04/86	YM
WY W0312918	Dave Johnston	06/01/63	1803 AA	Pacific Power & Light Co.	100 1	06/01/63	den	08/04/86	YM
WY W038597	Dave Johnston	06/01/65	3779 AA	Pacific Power & Light Co.	100 1	06/01/65	den	08/04/86	YM
WY W038602	Dave Johnston	08/01/58	1400 AA	Pacific Power & Light Co.	100 1	08/01/58	den	08/04/86	YM
WY W041355	Dave Johnston	06/01/56	2000 AA	Pacific Power & Light Co.	100 1	06/01/56	den	08/04/86	YM
WY W0311810	Dave Johnston	07/02/56	560 AA	Pacific Power & Light Co.	100 1	07/02/56	den	08/04/86	YM
WY W0312311	E. Gillette	01/01/70	1263 AN	Kerr-McGee Coal Co.	100 1	01/01/70	den	08/04/86	QC
WY W0313668	E. Gillette	07/01/65	880 AN	Kerr-McGee Coal Co.	100 1	07/01/65	den	08/04/86	QC
WY W0313773	E. Gillette	09/01/65	2200 AN	Kerr-McGee Coal Co.	100 1	10/01/65	den	08/04/86	QC
WY W5035	Eagle Butte	12/01/67	3520 AA	Meadowlark Farms	100 1	09/01/65	den	08/04/86	YM
WY W23928	Fort Union (S. Ramhide)	09/01/70	1913 AA	Fort Union Mine Partnership	100 1	10/01/83	ind	10/01/93	QM
WY W24710	Jacobs Ranch	09/01/70	4192 AA	Kerr-McGee Coal Co.	100 1	09/01/70	den	08/04/86	YM
WY W0313558	Jacobs Ranch	09/01/70	160 AA	Kerr-McGee Coal Co.	100 1	09/01/70	den	08/04/86	YM
WY W2727	Jim Bridger	01/01/68	4276 AA	Bridger Coal Co.	100 1	01/01/68	den	08/04/86	YM
WY W2728	Jim Bridger	10/01/68	2880 AA	Bridger Coal Co.	100 1	10/01/69	den	08/04/86	YM
WY W78635	Jim Bridger	10/01/69	1280 AA	Bridger Coal Co.	100 1	10/01/69	den	08/04/86	YM
WY W055246	Kee ine	09/01/82	3238 AN	Neil Butte Co.	100 1	09/01/82	den	09/01/92	OO
WY W075207	Kenmerer	03/01/58	2401 AA	Gulf Oil	100 1	03/01/58	den	08/04/86	YM
WY W0294513	Kenmerer	01/02/59	714 AA	Gulf Oil Corp.	100 1	02/01/59	den	08/04/86	YM
WY W056471	Kenmerer	07/01/64	519 AA	Gulf Oil Corp.	100 1	07/01/64	den	08/04/86	YM
WY W060274	Kenmerer	04/01/62	960 AA	Gulf Oil Corp.	100 1	04/01/62	den	08/04/86	YM
WY W78631	enme	02/01/63	745 AA	Gulf Oil Corp.	100 1	02/01/63	den	08/04/86	YM
WY W42554	Little Ramhide	09/01/82	530 AA	Meadowlark Farms, Inc.	100 1	09/01/82	den	09/01/92	OO
WY W58095	Medicine Bow	02/01/71	1280 AA	Medicine Bow Coal Co.	100 1	01/01/74	seg	08/04/86	YM
WY W72989	Medicine Bow	10/01/80	1288 AA	Medicine Bow Coal Co.	100 1	10/01/80	den	10/01/90	OO
WY W72989	Medicine Bow	09/01/81	4443 AA	Medicine Bow Coal Co.	100 1	09/01/81	den	09/01/91	OO

DEVELOPMENT STATUS OF FEDERAL COAL LEASES

STATE SERIAL	BLOCK OR MINE NAME	DATE ISSUED	ACRES DEV. STATUS	LESSEE #	PCT NO. LESSEES	DATE ACQUIRED	HOW ACQU	SEC. 3 DATE	SEC. 3 STATUS
WY W60231	N. Antelope	12/01/66	320 AA	North Antelope Coal Co.	100 1	12/01/66	den	08/04/86	YM
WY W87364	N. Antelope (Rochelle seg)	12/01/66	1040 AA	North Antelope Coal Co.	100 1	11/01/83	seg	11/01/93	YM
WY W71692	N. Rochelle	12/01/66	2000 AS	Shell Oil Corp.	100 1	07/01/80	seg	07/01/90	QM
WY W0136194	Phillips Creek 1	06/01/61	322 AA	Pacific Power & Light Co.	100 1	11/01/81	ind	11/01/91	YM
WY W0136195	Phillips Creek 1	06/01/61	1477 AA	Pacific Power & Light Co.	100 1	11/01/81	ind	11/01/91	YM
WY W0136196	Phillips Creek 1	06/01/61	1560 AA	Pacific Power & Light Co.	100 1	11/01/81	ind	11/01/91	YM
WY W0324701	Phillips Creek 1	02/01/70	680 AA	Pacific Power & Light Co.	100 1	11/01/81	ind	11/01/91	YM
WY W5036	Rawhide	12/01/67	5697 AA	Exxon Coal USA	100 1	12/01/67	den	08/04/86	YM
WY W77235	Rawhide (Peabody seg.)	12/01/67	480 AA	Peabody Coal Co.	100 1	09/01/81	seg	09/01/91	YM
WY W83395	Rawhide I-90 exchange	12/01/67	560 AA	Exxon Resources USA, Inc.	100 1	01/28/83	den	01/28/93	YM
WY W0321779	Rochelle	12/01/66	7822 AS	Peabody Coal Co.	100 1	12/01/66	den	08/04/86	NM
WY W37829	Rochelle	12/01/66	40 AS	Powder River Coal Co.	100 1	12/09/72	seg	08/04/86	NM
WY W23929	Rojo Caballos	02/01/71	3959 AA	Mobil Coal Resources Co.	100 1	02/01/71	den	08/04/86	YL
WY C057086	Rosebud	04/05/35	1273 AA	Rosebud Coal Sales	100 1	03/01/65	ind	08/04/86	YL
WY W48330	Rosebud	02/01/80	130 AA	Rosebud Coal Sales	100 1	02/01/80	den	02/01/90	OO
WY W72991	Rosebud	09/01/81	3010 AA	Ark Land Co.	100 1	09/01/81	den	09/01/91	OO
WY W23411	Rosebud?	04/01/83	5078 AA	Rosebud Coal Sales Co	100 1	04/01/83	den	03/01/93	OO
WY W060241	S. Haystack	03/01/63	1408 AN	Cumberland Coal Co.	100 1	03/01/77	ind	04/01/87	QM
WY W022978	Sand Draw (W.Nuclear)	08/01/54	80 AA	Resource Exploration & M n g	100 1	04/01/80	ind	04/01/90	QM
WY W16466	Seminole #1	02/01/71	6315 AM	Ark Land Co.	100 1	02/01/71	den	08/04/86	YD
WY C033800	Seminole #2	10/08/24	398 AA	Ark Land Co.	100 1	09/01/71	ind	08/04/86	YM
WY C078051	Seminole #2	05/01/51	160 AA	Ark Land Co.	100 1	01/01/74	ind	08/04/86	YM
WY W0146199	Seminole #2	01/01/64	640 AA	Ark Land Co.	100 1	01/01/71	ind	08/04/86	YM
WY W054727	Seminole #2	11/01/61	1264 AA	Ark Land Co.	100 1	01/01/71	ind	08/04/86	YM
WY W054737	Seminole #2	11/01/61	320 AA	Ark Land Co.	100 1	01/01/71	ind	08/04/86	YM
WY W31258	Seminole #2	05/01/51	160 AA	Ark Land Co.	100 1	10/08/71	seg	08/04/86	YM
WY W061421	Skull Point	08/01/80	735 AA	Ark Land Co.	100 1	08/01/80	den	08/01/90	OO
WY W061422	Skull Point	03/01/63	1280 AA	FMC Corp.	100 1	03/01/63	den	08/04/86	QC
WY W12793	Stansbury	03/01/63	1921 AA	FMC Corp.	100 1	05/01/75	den	08/04/86	QC
WY W16465	Vanguard #2	09/01/69	8683 AI	Winton Coa Co.	100 1	06/01/75	ind	11/01/92	YM
WY W011833	Wyodak	04/01/61	40 AA	Energy Development Co.	100 1	09/01/69	den	08/04/86	YM
WY W0313666	Wyodak	10/01/65	1360 AA	Wyodak Resource Development Co	100 1	09/28/83	den	09/28/93	YM
WY W073289	Wyodak	05/01/59	240 AA	Wyodak Resource Development Co	100 1	09/28/83	den	09/28/93	YM
WY W78630	Wyodak	03/01/83	320 AA	Wyodak Resource Development Co	100 1	05/01/59	den	08/04/86	YM
WY W85379	Wyodak I-90 exchange	04/01/61	240 AA	Wyodak Resources Dev. Corp.	100 1	03/01/83	den	03/01/93	OO
WY W0271199	Dry Fork	12/01/67	640 PN	Phillips Petroleum Corp.	100 1	09/28/83	den	09/28/93	YM
WY W0271200	Dry Fork	12/01/67	760 PN	Phillips Petroleum Corp.	100 1	08/01/83	ind	08/01/93	NM
WY W0271201	Dry Fork	12/01/67	2180 PN	Phillips Petroleum Corp.	100 1	08/01/83	ind	08/01/93	NM
WY W0236507	Arvada	03/01/65	195 R	Gulf Oil Corp.	100 1	/ /	rel	/ /	OO
WY W0236621	Arvada	06/01/63	2551 R	Gulf Oil Corp.	100 1	/ /	rel	/ /	OO

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DEVELOPMENT STATUS OF FEDERAL COAL LEASES

STATE SERIAL	BLOCK OR MINE NAME	DATE ISSUED	ACRES DEV. STATUS	LESSEE #1	PCT NO.	LESSEES ACQUIRED	DATE ACQUIRED	HOW ACQUIRED	SEC. 3 DATE	SEC. 3 STATUS
WY W0240559	Arvada	09/01/63	1620 R	Gulf Oil Corp.	100 1	/ /	/ /	rel	/ /	00
WY W0220486	Boar's Tusk	04/01/67	1840 RP	Peabody Coal Co.	100 1	11/01/68	11/01/68	ind	08/04/86	00
WY W3438	Boar's Tusk	03/01/70	640 RP	Peabody Coal Co.	100 1	03/01/70	03/01/70	den	08/04/86	00
WY W0313667	East Wyodak	10/01/65	2560 RP	Powder River Coal Co.	100 1	12/01/73	12/01/73	ind	08/04/86	00
WY E019039	Granite Creek	03/11/41	280 R	Granite Creek Coal & Uranium	100 1	/ /	/ /	rel	/ /	00
WY E015155	Rainbow #8	09/19/27	1752 R	Sweetwater Resources, Inc.	100 1	/ /	/ /	rel	/ /	00
WY W58112	Rojo Caballos	02/01/71	0 RC	Mobil Coal Resources Co.	100 1	02/01/71	02/01/71	den	08/04/86	00
WY W72990	?	06/01/81	1832 UN	Capital Development Co.	100 1	06/01/81	06/01/81	den	06/01/91	00
WY B025369	Armstrong	05/17/30	80 UP	Big Horn Coal Co.	100 1	11/01/59	11/01/59	ind	08/04/86	00
WY W961	Bass	12/01/67	20701 UN	Bass, R. & Bass Trusts	100 1	12/01/67	12/01/67	den	08/04/86	00
WY W0322794	Belco	01/01/70	4551 UN	Belco Petroleum Corp.	100 1	07/01/70	07/01/70	ind	08/04/86	00
WY B037423	Blue Diamond	02/22/44	40 UN	Wyodak Resource Development Co	100 1	12/01/56	12/01/56	ind	08/04/86	00
WY W0312917	Cherokee	04/01/67	480 UN	Resource Development Co.	100 1	04/01/67	04/01/67	den	08/04/86	00
WY W092141	Cherokee	07/01/62	2480 UN	Resource Development Co.	100 1	07/01/62	07/01/62	den	08/04/86	00
WY W0313559	Cherokee	06/01/65	640 UN	Resource Development Co.	100 1	06/01/65	06/01/65	den	08/04/86	00
WY W092140	Cherokee	07/01/62	671 UN	Resource Development Co.	100 1	07/01/62	07/01/62	den	08/04/86	00
WY W73096	China Butte	03/01/82	5974 UN	China Butte Coal Co.	100 1	03/01/82	03/01/82	den	08/04/86	00
WY E018804	Cottonwood	03/28/38	160 UN	Conotton Land Co.	100 1	09/01/80	09/01/80	ind	09/01/90	00
WY W023373	Deadman	02/01/58	240 UP	Conotton Land Co.	100 1	06/01/77	06/01/77	ind	06/01/87	00
WY W50061	Edison	07/01/82	7066 UN	Edison Development Co.	100 1	07/01/82	07/01/82	den	07/01/92	00
WY W0256663	Gulf 3	03/01/65	756 UN	Gulf Oil Corp.	100 1	11/01/75	11/01/75	ind	08/04/86	00
WY W25406	Hanna South	01/01/71	640 UN	Ark Land Co.	100 1	04/01/76	04/01/76	ind	08/04/86	00
WY C069111	Kowlak	12/01/45	120 UP	Northwestern Resources Co.	100 1	01/01/75	01/01/75	ind	08/04/86	00
WY W030052	Lake DeSmet	11/01/59	2203 UN	Texaco, Inc.	100 1	02/01/74	02/01/74	ind	08/04/86	00
WY W046349	Lake DeSmet	10/01/61	160 UN	Texaco, Inc.	100 1	02/01/74	02/01/74	ind	08/04/86	00
WY W051959	Lake DeSmet	08/01/57	320 UN	Texaco, Inc.	100 1	02/01/74	02/01/74	ind	08/04/86	00
WY W030009	Lake DeSmet	12/01/55	1913 UN	Texaco, Inc.	100 1	02/01/74	02/01/74	ind	08/04/86	00
WY W0321120	Lake DeSmet	05/01/66	4821 UN	Texaco, Inc.	100 1	02/01/74	02/01/74	ind	08/04/86	00
WY W0313201	Long Canyon	07/01/68	14680 UN	Sweetwater Resources, Inc.	100 1	06/01/80	06/01/80	ind	06/01/90	00
WY W075206	N. North Block	01/02/59	1247 UN	Gulf Oil Corp.	100 1	02/01/59	02/01/59	den	08/04/86	00
WY W0310712	Phillips Creek 2	12/01/66	40 UN	Pacific Power & Light Co.	100 1	11/01/81	11/01/81	ind	11/01/91	00
WY W78633	Rocky Butte	02/01/83	4856 UN	Texas Energy Services, Inc.	50 2	02/01/83	02/01/83	den	02/01/93	00
WY W0220516	Wildcat	03/01/65	1571 UN	Gulf Oil Corp.	100 1	11/01/75	11/01/75	ind	08/04/86	00

KEY TO ABBREVIATIONS AND ENTRIES IN
OTA COAL LEASE DATA BASE

FIELD STATE	CONTENTS State where lease is located
SERIAL	Lease serial number in DOI records
BLOCK OR MINE NAME	Name of Mine or Lease Block used in OTA reports
DATE ISSUED	Date lease was originally issued
ACRES	Acres in Lease (current as of 1982)
DEV. STATUS	<p>Development Status 1985</p> <p>The-first letter is the development status of the lease or the associated mine or lease block, the second letter is the current production status</p> <p>Ratings:</p> <p>AA = Approved SMCRA permit, mine is actively producing.</p> <p>AI = Approved permit, past production, mine is currently idle.</p> <p>AS = Approved permit, mine scheduled to begin producing under contracts.</p> <p>AN = Approved permit, no scheduled production, no contracts.</p> <p>AM = Approved permit, lease reserves mined out.</p> <p>PS = Pending permit, mine scheduled to produce under contract</p> <p>PN = Pending permit, no scheduled production, no contracts.</p> <p>UN = Undeveloped no active permit review.</p> <p>UP = Undeveloped, past coal production (before SMCRA).</p> <p>R = Undeveloped, relinquishment approved.</p> <p>RP = Undeveloped, relinquishment pending.</p> <p>RE = Relinquished in exchange for another lease.</p>
LESSEE #1	First lessee in DOI lease records
PCT	Percent owned by Lessee #1
NO. LESSEES	Number of lease owners
DATE ACQUIRED	Date lease acquired by lessee #1 or corporate predecessor
HOW ACQUIRED	<p>Method of acquisition by lessee #1 or corporate predecessor</p> <p>DEN = lease issued by DOI to lessee; IND = lease assigned to lessee by unrelated entity; SEG = lease transferred by segregation of an existing lease; PAR = partial interest in lease transferred to lessee by assignment</p>
SEC. 3 DATE	Earliest section 3 deadline applicable to lease: generally 10 years after lease acquired by lessee or corporate predecessor in arm's-length

transaction between unrelated parties (Corporate acquisitions do not restart section 3 clock).

SEC. 3
STATUS

Estimated section 3 Compliance Status as of section 3 date

First letter is general rating, second letter provides reason for rating.

YA = Lease likely to comply with section 3, actively producing >1% reserves.

YS = Lease likely to comply because of scheduled production and contracts.

YD = Lease likely to comply, reserves depleted.

YL = Lease likely to comply by LMU formation with other federal leases.

QM = Uncertain compliance status because of market conditions, existing regional capacity between 100 and 150% of projected demand.

QC = Uncertain compliance status because of LMU formation with nonfederal coal and lack of contracts to sustain LMU production level of 2.5%/yr.

QT = Uncertain compliance status because of lack of transportation to move coal to customers.

NM = Lease unlikely to comply because of market conditions, existing regional capacity exceeds 150% of projected demand.

NU = Lease unlikely to comply because of unfavorable development potential.

OO = Lease not rated (post-FCLAA lease, insufficient information, relinquished lease).