



FAYETTE COUNTY (Continued)

Operators and Mines/ or Surface Mine Permit No.	Name of Coal or Geological Formation	Height of Seam Inches	Kind of Opening					Number and Type Lamps Used			Pounds of Explosives Used			
			Shaft Depth	Slope		Drift Drift	Non- Gas	Non- Gas	Flame Open	Elec- tric	Ammonium Nitrate	Dynamite	Other Permis- sible (Name)	
				Length	Degrees									
Carbon Fuel Resources 26743202 T 27830201 T	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chess Coal Co. 26783037 26870105	-	-	-	-	-	-	-	-	-	-	-	-	-	
Christopher Resources, Inc. 26850112 (C2)	Pittsburgh	-	-	-	-	-	-	-	-	-	-	-	-	
Coal Stripping, Inc. 26870104	L. K.	34	-	-	-	-	-	-	-	-	-	-	-	
Dearth Coal Co. 26840108 26870101	Pittsburgh "	72 72	-	-	-	-	-	-	-	-	-	-	-	
GKG, Inc. 26880202 Refuse	Pittsburgh	-	-	-	-	-	-	-	-	-	-	-	-	
Genovese Coal Co., Theodore R. II 26850102 26880106	Pittsburgh Redstone	84 34	-	-	-	-	-	-	-	-	18,450 1,500	300 -	- -	
											<b>Total</b>	<b>19,500</b>	<b>300</b>	<b>-</b>
Gioia Coal Co. 26860101 26880109 Auger-BAM	Up. Bakerstown " " " "	36 36 -	-	-	-	-	-	-	-	-	21,805 ) )	351 ) )	- - -	
											<b>Total</b>	<b>21,805</b>	<b>351</b>	<b>-</b>

FAYETTE COUNTY (Continued)

Operators and Mines/ or Surface Mine Permit No.	Name of Coal or Geological Formation	Height of Seam Inches	Kind of Opening					Number and Type Lamps Used			Pounds of Explosives Used			
			Shaft Depth	Slope		Drift Drift	Gas- eous	Mon- gas- eous	Flame Open	Elec- tric	Ammonium Nitrate	Dynamite	Other Permis- sible (Name)	
				Length	Degrees									
Glacial Minerals, Inc. 26870201	Pittsburgh	-	-	-	-	-	-	-	-	-	-	-	-	
Grindstone Coal Co., Inc. 26820130	Bituminous	-	-	-	-	-	-	-	-	-	-	-	-	
Hill Coal Co. 26783002	-	-	-	-	-	-	-	-	-	-	-	-	-	
Herring, Harry Lee & Rolland 26830112	Redstone/Pittsburgh	36-96	-	-	-	-	-	-	-	-	-	-	-	
26850117	Redstone/Sewickley	30-50	-	-	-	-	-	-	-	-	13,184	726	726	
26880103	Redstone	30	-	-	-	-	-	-	-	-	9,800	272	272	
											<b>Total</b>	<b>22,984</b>	<b>998</b>	<b>998</b>
Jordon Coal Co., James V. 26850111	Unknown	-	-	-	-	-	-	-	-	-	-	-	-	
Lamar Coal Co. 26840119	Pittsburgh	72	-	-	-	-	-	-	-	-	-	-	-	
26890105	"	72	-	-	-	-	-	-	-	-	-	-	-	
M. B. Energy, Inc. 26860105	U.M.K.	24-27	-	-	-	-	-	-	-	-	-	-	-	
Patterson Coal Co. 26860107	Redstone	36	-	-	-	-	-	-	-	-	-	-	-	
Piccolomini, William 26830110	Pittsburgh	60	-	-	-	-	-	-	-	-	-	-	-	





FAYETTE COUNTY (Continued)

Operators and Mines/ or Surface Mine Permit No.	Name of Coal or Geological Formation	Height of Seam Inches	Kind of Opening						Number and Type Lamps Used			Pounds of Explosives Used		
			Shaft	Slope		Drift	Gas- eous	Non- Gas- eous	Flame	Elec- tric	Ammonium Nitrate	Dynamite	Other Permis- sible (Name)	
				Depth	Length									Degrees
Wise Mining Co. 26820129	Redstone	24	-	-	-	-	-	-	-	-	-	5,580	800	-
<b>County Total</b>											<b>470,477</b>	<b>676,296</b>	<b>998</b>	

Note: Symbols for Geological Name of Coal Bed:

- UK - Upper Kittanning
- MK - Middle Kittanning
- LK - Lower Kittanning
- UF - Upper Freeport
- MF - Middle Freeport
- LF - Lower Freeport





GREENE COUNTY (Continued)

Operators and Mines/ or Surface Mine Permit No.	Name of Coal or Geological Formation	Height of Seam Inches	Kind of Opening						Number and Type Lamps Used			Pounds of Explosives Used			
			Shaft		Slope		Drift	Gas-	Non-	Flame	Elec-	Ammonium	Dynamite	Other Permis- sible (Name)	
			Depth	Length	Degrees	Drift	Gas-	Non-	Open						Safety
Genovese, Theodore R, II 30850102	Sewickley	50	-	-	-	-	-	-	-	-	-	-	-	-	-
Greene Coal Co. 30813013T	Waynesburg	48	-	-	-	-	-	-	-	-	-	209,509	807	-	-
30880103	Waynesburg	48	-	-	-	-	-	-	-	-	-	-	-	-	-
												<b>Total</b>	<b>209,509</b>	<b>807</b>	<b>-</b>
Greene County Coal Co. 30840102	Waynesburg	48	-	-	-	-	-	-	-	-	-	18,500	157	-	-
Lawrence Coal Co. 30713008-01	Waynesburg	60	-	-	-	-	-	-	-	-	-	-	-	-	-
Meadow Run Mining Co., Inc. 30850104	Sewickley	48	-	-	-	-	-	-	-	-	-	7,030	122	-	-
Panson & McNay Coal Co. 30880102	Waynesburg	48	-	-	-	-	-	-	-	-	-	432,150	3,950	-	-
Patriot Mining Co., Inc. 30850103T	Waynesburg	60	-	-	-	-	-	-	-	-	-	33,409	205	-	-
30880104	Waynesburg	60	-	-	-	-	-	-	-	-	-	10,000	100	100	100
												<b>Total</b>	<b>43,409</b>	<b>305</b>	<b>100</b>
Rumble, Jim 30743013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30840105	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Susan Ann Coal, Inc. 30813009	Waynesburg	45	-	-	-	-	-	-	-	-	-	-	-	-	-
Teer Co., Nello L. 30793024	Waynesburg	30	-	-	-	-	-	-	-	-	-	-	-	-	-
Willow Tree Coal Co. 30813011	Waynesburg	60	-	-	-	-	-	-	-	-	-	11,350	-	-	-

GREENE COUNTY (Continued)

Operators and Mines/ or Surface Mine Permit No.	Name of Coal or Geological Formation	Height of Seam Inches	Kind of Opening					Number and Type Lamps Used			Pounds of Explosives Used			
			Shaft		Slope		Drift	Gas- eous	Non- Gas- eous	Flame	Elec- tric	Ammonium Nitrate	Dynamite	Other Permis- sible (Name)
			Depth	Length	Degrees	Drift	Open							
Zinn Coal Co. 30830101	Sewickley	52	-	-	-	-	-	-	-	-	-	20,500	812	-
COUNTY TOTAL											2,300,199	14,215	8,296	

Note: † Caps  
‡ Primers

HUNTINGDON COUNTY

Operators and Mines/ or Surface Mine Permit No.	Name of Coal or Geological Formation	Height of Seam Inches	Kind of Opening						Number and Type Lamps Used			Pounds of Explosives Used		
			Shaft	Slope		Drift	Gas- eous	Non- Gas- eous	Flame	Elec- tric	Ammonium Nitrate	Dynamite	Other Permis- sible (Name)	
			Depth	Length	Degrees	Drift								Open
L & B Coal Co., Inc. 05830101	Spead	24	-	-	-	-	-	-	-	-	-	-	-	-
COUNTY TOTAL											-	-	-	

INDIANA COUNTY

Operators and Mines/ or Surface Mine Permit No.	Name of Coal or Geological Formation	Height of Seam Inches	Kind of Opening					Gas- eous	Non- Gas- eous	Number and Type Lamps Used			Pounds of Explosives Used		Other Permis- sible (Name)
			Shaft	Slope		Drift	Open			Flame	Elec- tric	Ammonium Nitrate	Dynamite		
				Depth	Length									Degrees	
Arcadia Co., Inc., The 32850115	MLK	15-28	-	-	-	-	-	-	-	-	-	1,231,799	5,390	-	
B & W Coal, Inc. 32850112	Pittsburgh	72	-	-	-	-	-	-	-	-	-	103,250	1,432	-	
Becker Coal Co., Paul F. 32860115	UF	50	-	-	-	-	-	-	-	-	-	-	-	-	
Beilchick Bros. 32663056	UF	27	-	-	-	-	-	-	-	-	-	50,400	228	-	
32830113	LF	38	-	-	-	-	-	-	-	-	-	-	-	-	
												<b>Total</b>	<b>50,400</b>	<b>228</b>	<b>-</b>
Benjamin Coal Co. 32830112	Unknown	-	-	-	-	-	-	-	-	-	-	-	-	-	
32860105	Unknown	-	-	-	-	-	-	-	-	-	-	-	-	-	
Black Oak Development Corp. 32840109	UF	48	-	-	-	-	-	-	-	-	-	614,400	1,998	-	
Buterbaugh Construction Co. 32753041	LF	32	-	-	-	-	-	-	-	-	-	-	-	-	
Auger BAM 2001-240	LF	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cloe Mining Co., Inc. 32813007	ULF	28-36	-	-	-	-	-	-	-	-	-	92,050	613	-	
Doverspike Bros. Coal Co. 32830103	MK/LF/UK/LK	16-22-27	-	-	-	-	-	-	-	-	-	914,825	6,291	-	
FNR Mining Co. 32880102	LF	32	-	-	-	-	-	-	-	-	-	375,000	7,645	-	
32880109	MK	22	-	-	-	-	-	-	-	-	-	61,450	1,065	-	
												<b>Total</b>	<b>436,450</b>	<b>8,710</b>	<b>-</b>





INDIANA COUNTY (Continued)

Operators and Mines/ or Surface Mine Permit No.	Name of Coal or Geological Formation	Height of Seam Inches	Kind of Opening					Non- Gas- eous	Non- Gas- eous	Number and Type Lamps Used			Pounds of Explosives Used		Other Permis- sible (Name)	
			Shaft Depth	Slope		Drift Drift	Gas- eous			Gas- eous	Open	Flame Safety	Elec- tric	Ammonium Nitrate		Dynamite
				Length	Degrees											
M. B. Energy, Inc. (Continued)																
32880107	ULF/UMK	18-39	-	-	-	-	-	-	-	-	-	-	301,130	1,584	-	
32880108	UF	42	-	-	-	-	-	-	-	-	-	-	-	-	-	
32890101	UF	42	-	-	-	-	-	-	-	-	-	-	334,906	1,032	-	
32890104	LF/UK	32-40	-	-	-	-	-	-	-	-	-	-	-	-	-	
Auger-BAM 2001-266	UF	42	-	-	-	-	-	-	-	-	-	-	-	-	-	
Auger-BAM 2001-288	LF	47	-	-	-	-	-	-	-	-	-	-	-	-	-	
													<b>Total</b>	<b>2,634,720</b>	<b>8,485</b>	<b>-</b>
Marquise Mining Corp.																
32870102	LF	30	-	-	-	-	-	-	-	-	-	-	71,412	-	278	
32890102	LF	30	-	-	-	-	-	-	-	-	-	-	120,231	-	388	
													<b>Total</b>	<b>191,643</b>	<b>-</b>	<b>666</b>
Mears Enterprises, Inc.																
32803009	LF	26	-	-	-	-	-	-	-	-	-	-	-	-	-	
32803048	LF	28	-	-	-	-	-	-	-	-	-	-	6,800	215	-	
32813021	ULF	20-30	-	-	-	-	-	-	-	-	-	-	-	-	-	
32823009	LF	28	-	-	-	-	-	-	-	-	-	-	34,980	304	-	
32823017	LK	36	-	-	-	-	-	-	-	-	-	-	60,150	3,103	-	
32850110	LK	36	-	-	-	-	-	-	-	-	-	-	-	-	-	
32860111	LF	28	-	-	-	-	-	-	-	-	-	-	116,440	2,228	-	
Auger-BAM 2001-252	LF	26	-	-	-	-	-	-	-	-	-	-	-	-	-	
Auger-BAM 2001-254	UL	20-30	-	-	-	-	-	-	-	-	-	-	-	-	-	
Auger-BAM 2001-272	LF	28	-	-	-	-	-	-	-	-	-	-	-	-	-	
Auger-BAM 2001-277	LK	36	-	-	-	-	-	-	-	-	-	-	-	-	-	
Auger-BAM 2001-286	LK	36	-	-	-	-	-	-	-	-	-	-	-	-	-	
													<b>Total</b>	<b>218,370</b>	<b>5,850</b>	<b>-</b>

INDIANA COUNTY (Continued)

Operators and Mines/ or Surface Mine Permit No.	Name of Coal or Geological Formation	Height of Seam Inches	Kind of Opening					Non- Gas- eous	Non- Gas- eous	Number and Type Lamps Used			Pounds of Explosives Used				
			Shaft Depth	Slope		Drift Drift	Flame Open			Elec- Safety	Elec- tric	Ammonium Nitrate	Dynamite	Other Permis- sible (Name)			
				Length	Degrees												
Negley Coal Co., Inc.																	
32753025	Pittsburgh	132	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32880101	Pittsburgh	132	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
North Cambria Fuel Co.																	
32803027	LF/ULK	24-26-42	-	-	-	-	-	-	-	-	-	-	320,410	4,499	-	-	-
32823026	UF	46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32840107	ULF	42	-	-	-	-	-	-	-	-	-	-	233,211	301	-	-	-
32860109	ULF	42	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Auger-BAM 2001-280	ULF	42	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
													<b>Total</b>	<b>553,621</b>	<b>4,800</b>	<b>-</b>	<b>-</b>
P & N Coal Co., Inc.																	
32860107	LF	28	-	-	-	-	-	-	-	-	-	-	80,350	1,263	3,150	-	-
Peles, Joseph																	
32840103	UF	36	-	-	-	-	-	-	-	-	-	-	145,340	8,735	-	-	-
TLH Coal Co.																	
32823066	ULF	27	-	-	-	-	-	-	-	-	-	-	653,918	4,141	-	-	-
32870105	MUK/LUF	30	-	-	-	-	-	-	-	-	-	-	294,510	2,060	-	-	-
													<b>Total</b>	<b>948,428</b>	<b>6,201</b>	<b>-</b>	<b>-</b>
Yenzi, Jr., John																	
3976SM5	LF	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
													<b>COUNTY TOTAL</b>	<b>9,977,616</b>	<b>102,109</b>	<b>8,226</b>	<b>-</b>

Symbols for Geological Name of Coal Bed:

- UK - Upper Kittanning
- MK - Middle Kittanning
- LK - Lower Kittanning
- UF - Upper Freeport
- MF - Middle Freeport
- LF - Lower Freeport

JEFFERSON COUNTY

Operators and Mines/ or Surface Mine Permit No.	Name of Coal or Geological Formation	Height of Seam Inches	Kind of Opening					Non- Gas- eous	Non- Gas- eous	Number and Type Lamps Used			Pounds of Explosives Used		Other Permis- sible (Name)
			Shaft Depth	Slope		Drift Drift	Open			Flame Safety	Elec- tric	Ammonium Nitrate	Dynamite		
				Length	Degrees										
A. & T. Coal Co., Inc. 33840116	M.K./L.F.	22-42	-	-	-	-	-	-	-	-	-	-	-	-	-
Afton, Olive 33870107	Clarion/Bookville	24	-	-	-	-	-	-	-	-	-	64,180	1,306	-	
Andray Mining Co. 33800110	U. F.	25	-	-	-	-	-	-	-	-	-	708,920	2,381	-	
Benjamin Coal Co. 33813031 33860114	Unknown "	- -	-	-	-	-	-	-	-	-	-	-	-	-	
Black Diamond Coal Co. 33880102	L.F.	44	-	-	-	-	-	-	-	-	-	-	-	-	
Cloe Mining Co., Inc. 33793033 33860113	U.K./L.F. M.K./L.F.	20 20-48	-	-	-	-	-	-	-	-	-	94,940 156,297	1,494 1,579	- -	
												<b>Total</b>	<b>251,237</b>	<b>3,073</b>	<b>-</b>
Colt Resources, Inc. 33753031 33880109	M.L.K./U.F. U.L.F.	18-28-48 30-36	-	-	-	-	-	-	-	-	-	500,744 297,070	- -	- -	
												<b>Total</b>	<b>797,814</b>	<b>-</b>	<b>-</b>
Cookport Coal Co., Inc. 33783003	L.K.	30	-	-	-	-	-	-	-	-	-	50,973	389	-	
D. J. & W. Mining, Inc. 33880115	L.K.	29	-	-	-	-	-	-	-	-	-	#	#	#	

JEFFERSON COUNTY (Continued)

Operators and Mines/ or Surface Mine Permit No.	Name of Coal or Geological Formation	Height of Seam Inches	Kind of Opening						Number and Type Lamps Used			Pounds of Explosives Used			
			Shaft Depth	Slope		Drift Drift	Gas- eous	Non- Gas- eous	Flame Open	Elec- Safety	Elec- tric	Ammonium Nitrate	Dynamite	Other Permis- sible (Name)	
				Length	Degrees										
Deemer, Jr., Fred 33713016	L.F.	96	-	-	-	-	-	-	-	-	-	8,112	63	-	
Doverspike Bros. Coal Co. 33840118	L.K./Up. Clarion	12-24	-	-	-	-	-	-	-	-	-	27,650	422	-	
Energy Resources, Inc. 24870103	U.L.F./U.K.	24										-	-	-	
33813013T	L.K.	26										60,100	194	211(a)	
33830115	U.K.	22										233,457	1,198	1,597(a)	
33840125	L.K.	30	-	-	-	-	-	-	-	-	-	253,260	14,832	1,486	
33850101 and Auger 5218	U.L.F./U.K.	25-35										370,396	41,373	2,386	
33860102 and Auger 5210	L.K.	28										-	-	-	
33870113	M.K.	16										13,850	10,019	146	
												<b>Total</b>	<b>931,063</b>	<b>67,616</b>	<b>5,826</b>
Engle Bros. Coal Co. 33860104	Mercer	38	-	-	-	-	-	-	-	-	-				
Gearhart Alvin 33723002	U.K./L.F.	30-50	-	-	-	-	-	-	-	-	-				
338753013	U.K.	24													
Glacial Minerals, Inc. 33850109	Up. & Lo. Clarion/Brookville	15-26-30										47,200	-	-	
33890107	" " " " " "	18-24-28	-	-	-	-	-	-	-	-	-	669,165	-	-	
33890109	" " " " " "	15-26-30										47,200	-	-	
												<b>Total</b>	<b>763,565</b>	<b>-</b>	<b>-</b>
Hepburnia Coal Co. 33820153	U.K.	45										57,075	1,105	308	
33870110	U.K.	45	-	-	-	-	-	-	-	-	-				
												<b>Total</b>	<b>57,075</b>	<b>1,105</b>	<b>308</b>

JEFFERSON COUNTY (Continued)

Operators and Mines/ or Surface Mine Permit No.	Name of Coal or Geological Formation	Height of Seam Inches	Kind of Opening					Non- Gas- eous	Non- Gas- eous	Number and Type Lamps Used			Pounds of Explosives Used		Other Permis- sible (Name)	
			Shaft Depth	Slope Length	Drift Degrees	Drift Drift	Gas- eous			Gas- eous	Open	Flame Safety	Elec- tric	Ammonium Nitrate		Dynamite
Krach & Gearhart																
33800126	M.L.K.	16-24										-	-	-		
33803005	L.K.	24	-	-	-	-	-	-	-	-	-	-	-	-		
33810106	M.K.	16										-	-	-		
M. B. Energy, Inc.																
33753028	U.F.	38										417,025	1,399	-		
33850115	L.F./M.K.	28-34										377,914	2,225	-		
33860108	U.M.K.	12-19	-	-	-	-	-	-	-	-	-	726,720	2,396	-		
33880101	L.K.	30										-	-	-		
Auger-BAM 2001-1591	M.K.	34										-	-	-		
												<b>Total</b>	<b>1,521,659</b>	<b>6,020</b>	<b>-</b>	
McKay Coal Co., Inc.																
33880105	M.K.	18-24										321,870	6,619	-		
33890101	L.K.	24	-	-	-	-	-	-	-	-	-	109,540	1,986	-		
												<b>Total</b>	<b>431,410</b>	<b>8,605</b>	<b>-</b>	
M.S.M. Coal Co., Inc.																
33870103	L.K.	27										45,610	550	10,850		
33890114	L.K.	26	-	-	-	-	-	-	-	-	-	-	-	-		
Auger-BAM 5195	L.K.	27										-	-	-		
												<b>Total</b>	<b>45,610</b>	<b>550</b>	<b>10,850</b>	
Maud Mining Co.																
33723006T	U.L.F.	28-64										1,377,115	18,844	-		
33813003	U.F.	34-36										-	-	-		
33850108	L.F.	64										25,080	549	-		
33850126	U.K./U.L.F.	22-48-60	-	-	-	-	-	-	-	-	-	182,340	4,754	-		
33860116	U.L.F.	40-45										620,905	4,615	-		
33870109	U.F.	32										364,850	4,964	-		
33880110	U.F.	28										1,647,008	14,895	-		
												<b>Total</b>	<b>4,217,298</b>	<b>48,621</b>	<b>-</b>	

JEFFERSON COUNTY (Continued)

Operators and Mines/ or Surface Mine Permit No.	Name of Coal or Geological Formation	Height of Seam Inches	Kind of Opening					Number and Type Lamps Used			Pounds of Explosives Used				
			Shaft Depth	Slope Length	Drift Degrees	Gas- Drift	Non- Gas- eous	Open	Flame Safety	Elec- tric	Ammonium Nitrate	Dynamite	Other Permis- sible (Name)		
Original Fuels, Inc. 3381001	L.K./U.F.	30	-	-	-	-	-	-	-	-	-	69,870	296	-	
P & N Coal Co., Inc. 33733009/33850106	L.U.F.	28-36										915,265	5,538	-	
33813012/33693008	L.U.F.	28-36										628,990	8,234	44,025	
33820143	L.U.F.	30-40	-	-	-	-	-	-	-	-	-	427,980	2,823	9,650	
338040114/33860119/33890102	U.M.K./L.F.	12-20-48										475,895	4,114	-	
33840123	L.U.F.	28-36										683,540	2,767	-	
33850107	U.L.F.	24										471,286	7,556	5,150	
												<b>Total</b>	<b>3,602,956</b>	<b>31,032</b>	<b>58,825</b>
Penn Grampian Coal Co. 33763110/33880116	L.K.	24	-	-	-	-	-	-	-	-	-	178,150	1,970	1,255	
33880111	L.K.	28										2,600	630	18(a)	
												<b>Total</b>	<b>180,750</b>	<b>2,600</b>	<b>1,273</b>
R.E.M. Coal Co., Inc. 33850103	M.K./L.F.	17-45	-	-	-	-	-	-	-	-	-	69,020	2,184	-	
33880113	L.K./L.F.	22-40	-	-	-	-	-	-	-	-	-	7,510	223	-	
												<b>Total</b>	<b>76,530</b>	<b>2,407</b>	<b>-</b>
R & L Coal Corp. 33840108	U.F.	40	-	-	-	-	-	-	-	-	-	-	-	-	
33870104	L.F.	60										-	-	-	
Rice Coal Co. 33860115	L.F.	40	-	-	-	-	-	-	-	-	-	-	-	-	

JEFFERSON COUNTY (Continued)

Operators and Mines/ or Surface Mine Permit No.	Name of Coal or Geological Formation	Height of Seam Inches	Kind of Opening					Gas- eous	Non- Gas- eous	Number and Type Lamps Used			Pounds of Explosives Used		
			Shaft Depth	Slope		Drift Drift	Flame Open			Elec- Safety	Elec- tric	Ammonium Nitrate	Dynamite	Other Permis- sible (Name)	
				Length	Degrees										
Rosio Coal Co. 33820149	L.F.	26	-	-	-	-	-	-	-	-	-	-	-	-	-
Seven Sisters Mining Co., Inc.															
33810116	U.K.	24													
33820112	L.M.K.	-													
33820119	U.F.	48													
33820139	L.K.	36	-	-	-	-	-	-	-	-	-	-	-	-	-
33830101	U.K.	48													
33840111	U.F.	-													
33850127	-	-													
33880107	U.F.	24													
Smith Coal Co., A.A.															
33810129	U.K./L.F.	22-48	-	-	-	-	-	-	-	-	-	-	-	-	-
33820106/33880114	M.K.	15													
Starr, Jr., Ivan 33800112/33850123	U.K.	28	-	-	-	-	-	-	-	-	-	293,750	6,067	12,465	
Terry Coal Sales, Inc.															
33773132	L.K.	20										246,625	5,889	-	
33820121	L.M.U.K.	51										1,769,470	19,946	-	
33860101	L.M.K.	48	-	-	-	-	-	-	-	-	-	-	-	-	
33870111	L.M.K.	42										120,460	1,032	-	
33890103	L.F.	48										241,030	2,822	-	
												<b>Total</b>	<b>2,377,585</b>	<b>29,689</b>	<b>-</b>

JEFFERSON COUNTY (Continued)

Operators and Mines/ or Surface Mine Permit No.	Name of Coal or Geological Formation	Height of Seam Inches	Kind of Opening						Number and Type Lamps Used			Pounds of Explosives Used			Other Permis- sible (Name)
			Shaft Depth	Slope		Drift Drift	Gas- eous	Non- Gas- eous	Flame Open	Elec- Safety	Elec- tric	Ammonium Nitrate	Dynamite		
				Length	Degrees										
Thompson Fuel Co. 33870105	L.K.	12	-	-	-	-	-	-	-	-	-	-	-	-	-
Valier Mining 33880103	L.F.	44	-	-	-	-	-	-	-	-	-	-	-	-	-
County Total											16,478,007	212,242	89,547		

Note: Symbols for Geological Name of Coal Bed:

- UK - Upper Kittanning
- MK - Middle Kittanning
- LK - Lower Kittanning
- UF - Upper Freeport
- MF - Middle Freeport
- LF - Lower Freeport

\* Contracted Blasters  
(a) Caps