

CLEARFIELD 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		Other Permis- sible (Name)	
			Shaft Depth	Slope		Drift	Gas- eous	Gas- eous	Open	Elec- tric	Ammonium Nitrate	Dynamite			
				Length	Degrees								Degrees		
AME Enterprises, Inc.															
17793044	LMK	6-28	-	-	-	-	-	-	-	-	-	180,820	1,464	-	
17803045	MUK	12-28	-	-	-	-	-	-	-	-	-	-	-	-	
17813046	MUK	24-28	-	-	-	-	-	-	-	-	-	294,303	1,887	-	
17820181	MUK	24-28	-	-	-	-	-	-	-	-	-	343,415	2,198	-	
17830104	LK/Rider	5-36	-	-	-	-	-	-	-	-	-	99,884	809	-	
17840123	MUK/LF	12-18-24	-	-	-	-	-	-	-	-	-	664,872	5,385	-	
												<b>Total</b>	<b>1,583,294</b>	<b>11,743</b>	<b>-</b>
Andray Mining Co.															
17793018	LF/UMK	16-42	-	-	-	-	-	-	-	-	-	439,620	3,527	-	
Arcadia Co., Inc., The															
17850110	ULF/Mahoning	27-30	-	-	-	-	-	-	-	-	-	-	-	-	
17860146	ULF/UK Mahoning	15-30	-	-	-	-	-	-	-	-	-	1,856,524	8,472	-	
Avery Coal Co., Inc.															
17820151	ULMK	12-28-34	-	-	-	-	-	-	-	-	-	1,723,052	22,698	-	
17870105	LK	51	-	-	-	-	-	-	-	-	-	-	-	-	
Auger - BAM 40183	LK	28	-	-	-	-	-	-	-	-	-	-	-	-	
												<b>Total</b>	<b>1,723,052</b>	<b>22,698</b>	<b>-</b>
B & M Emnergy Resources Corp.															
17870106	UK/LF	19-29	-	-	-	-	-	-	-	-	-	39,177	-	-	
Baumgardner Coal Co., Inc., Larry D.															
17880108	LK	26	-	-	-	-	-	-	-	-	-	244,702	1,216	-	
Bender Coal Co., E.P.															
17880107	ULF	20-32	-	-	-	-	-	-	-	-	-	49,515	620	-	

## CLEARFIELD 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 Length	Drift Degrees	Drift Drift	Gas- eous	Gas- eous	Flame Open	Elec- tric	Ammonium Nitrate	Dynamite				
Benjamin Coal Co.																
17794009	Unknown	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17800144	Unknown	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17810120	Unknown	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17820132	Unknown	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17840105	Unknown	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17840132	Unknown	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17840134	Unknown	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17850120	Unknown	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17850130	Unknown	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17860140	Unknown	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beverly Hill Coal Co.																
17860127	LF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Brown, Inc., E. M.																
17773022	Clarion	30	-	-	-	-	-	-	-	-	-	-	106,210	2,124	-	-
17743014	Clarion	36	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17803023	Clarion	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17813024	MK	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17813013	Clarion	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17820146	UK	26	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17820175	Clarion	30	-	-	-	-	-	-	-	-	-	-	32,840	222	-	-
17840139	Clarion	30	-	-	-	-	-	-	-	-	-	-	9,130	176	-	-
17840152	LK	42	-	-	-	-	-	-	-	-	-	-	262,200	3,360	-	-
17840904	LK	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17860136	UK	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>											410,380	5,882	-			

CLEARFIELD 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	eous	eous	Open						Safety	tric	Nitrate	
<b>Total</b>													<b>875,350</b>	<b>11,254</b>	<b>115,975</b>			
Cambria Mills Coal Co., Inc.																		
17743033	ULK/ULF	32	-	-	-	-	-	-	-	-	-	-	7,616	98	1,009			
17803034	ULF/ULK	32	-	-	-	-	-	-	-	-	-	-	867,734	11,156	114,966			
17840157	ULF/LK	32	-	-	-	-	-	-	-	-	-	-	-	-	-			
Auger - BAM 40165	UF	24	-	-	-	-	-	-	-	-	-	-	-	-	-			
Carlin, Inc., R. S.																		
17793140	UMK	12-24	-	-	-	-	-	-	-	-	-	-	358,650	1,432	-			
Central Pa. Coal Co., Inc.																		
17753159	Moshannon	23	-	-	-	-	-	-	-	-	-	-	248,440	7,473	26,904			
17803079	ULF	23	-	-	-	-	-	-	-	-	-	-	-	-	-			
17803161	ULF	23	-	-	-	-	-	-	-	-	-	-	268,135	9,282	10,210			
17860122	ULF	23	-	-	-	-	-	-	-	-	-	-	-	-	-			
<b>Total</b>													<b>516,575</b>	<b>16,755</b>	<b>37,114</b>			
Cowfer Contracting Co., Inc., James I.																		
17663037	Bituminous	28	-	-	-	-	-	-	-	-	-	-	663,100	4,450	85,500			
17820152	Bituminous	28	-	-	-	-	-	-	-	-	-	-	-	-	-			
17830119	Bituminous	24	-	-	-	-	-	-	-	-	-	-	477,700	2,900	13,150			
<b>Total</b>													<b>1,140,800</b>	<b>7,350</b>	<b>98,650</b>			
Deer Run Coal Co.																		
17840118	LF	46	-	-	-	-	-	-	-	-	-	-	-	-	-			
Dressler, W. Ruskin																		
17850123	MK	33	-	-	-	-	-	-	-	-	-	-	3,600	8	24			
Edmunds Contracting & Supply Co., Inc.																		
17813156	UF	30	-	-	-	-	-	-	-	-	-	-	466,827	-	6,271			
17840138	LUF	20	-	-	-	-	-	-	-	-	-	-	448,521	-	6,025			
<b>Total</b>													<b>915,348</b>	<b>-</b>	<b>12,296</b>			

CLEARFIELD 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		Slope		Drift	Gas-	Non-	Open	Flame	Elec- tric	Ammonium Nitrate		Dynamite
			Depth	Length	Degrees	Drift	Gas-	Gas-							
Energy Resources, Inc. 17880102	Federal Hill	64	-	-	-	-	-	-	-	-	-	-	-	-	
Fahr Coal Co. 17870118	UF/Mahoning	22-46	-	-	-	-	-	-	-	-	-	228,869	4,608	-	
Flango Bros. Coal, Inc. 17820108	LK	24	-	-	-	-	-	-	-	-	-	28,922	1,384,775	450	
Glendale Contracting Co. 17870122	LUF	21	-	-	-	-	-	-	-	-	-	176,490	1,627	2,838	
Hamilton Bros. Coal, Inc. 17860125	LF	24	-	-	-	-	-	-	-	-	-	150,380	-	1,738	
17880122	MK	36	-	-	-	-	-	-	-	-	-	49,130	-	443	
Auger - BAM 40175	LF	24	-	-	-	-	-	-	-	-	-	-	-	-	
Auger - BAM 40188	UF	25	-	-	-	-	-	-	-	-	-	-	-	-	
												<b>Total</b>			
												199,510	-	2,181	
Hamilton Contracting Co., AI															
17803105	ULF	24-30	-	-	-	-	-	-	-	-	-	827,357	5,267	4,547	
17810104	MLK	20-40	-	-	-	-	-	-	-	-	-	49,586	933	721	
17813055	MLK	12-20	-	-	-	-	-	-	-	-	-	319,994	7,909	6,159	
17820106	MLK/Clarion	20-40	-	-	-	-	-	-	-	-	-	49,586	933	721	
178201045	-	-	-	-	-	-	-	-	-	-	-	807,534	4,497	3,427	
17830129	LF	Stumps	-	-	-	-	-	-	-	-	-	170,584	1,248	1,692	
17840131	LF/UMK	8-20	-	-	-	-	-	-	-	-	-	759,771	6,360	6,192	
17870112	UK	24	-	-	-	-	-	-	-	-	-	461,448	3,968	5,413	
17870117	UK	24	-	-	-	-	-	-	-	-	-	505,661	8,135	7,320	
17890105	ULF	24-30	-	-	-	-	-	-	-	-	-	119,783	281	373	
4475SM17	ULK	15-20	-	-	-	-	-	-	-	-	-	73,386	793	848	
												<b>Total</b>			
												4,144,690	40,324	37,413	

CLEARFIELD 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 Open	Elec- tric	Ammonium Nitrate	Dynamite	Other Permis- sible (Name)
			Depth	Length	Degrees	Drift	Gas							
Hanslovan Coal Co., Inc., Ed. 1788011201	MK	30	-	-	-	-	-	-	-	-	55,656	698	6,450	
Hartman Contractor, Warren C. 17880105	MK	32	-	-	-	-	-	-	-	-	22,775	852	152	
Hepburnia Coal Co.														
17803105	LF	24-30	-	-	-	-	-	-	-	-	946,059	7,596	739	
17820139	UF	22-24	-	-	-	-	-	-	-	-	315,645	5,608	1,834	
17820172	UK	30	-	-	-	-	-	-	-	-	298,552	7,935	1,714	
17830120	LUF	21-24	-	-	-	-	-	-	-	-	130,680	2,727	1,077	
17830136	LF	24	-	-	-	-	-	-	-	-	551,410	10,751	3,730	
17840107	ULF	24	-	-	-	-	-	-	-	-	89,712	1,248	525	
17850103	UK/LF	24	-	-	-	-	-	-	-	-	192,970	3,001	1,249	
17850106	MLK	24-32	-	-	-	-	-	-	-	-	112,450	2,339	694	
17850133	LUF	24	-	-	-	-	-	-	-	-	192,970	3,001	1,249	
17850135	UK/LUF	22-24-60	-	-	-	-	-	-	-	-	308,382	14,378	3,403	
17880101	-	-	-	-	-	-	-	-	-	-	-	-	-	
										<b>Total</b>	<b>3,138,830</b>	<b>58,584</b>	<b>16,214</b>	
K & J Coal Co., Inc.														
17744018	-	-	-	-	-	-	-	-	-	-	-	-	-	
17803026	UF/Mahoning	9-24	-	-	-	-	-	-	-	-	447,646	2,245	22,765	
17820176 and Auger BAM 40194	UF	23	-	-	-	-	-	-	-	-	605,239	50,500	64,900	
17830111	UF	20	-	-	-	-	-	-	-	-	43,460	250	2,200	
										<b>Total</b>	<b>1,096,345</b>	<b>52,995</b>	<b>89,865</b>	
Killion Trucking, Harry D. 17880113	MULK	5-15	-	-	-	-	-	-	-	-	4,000	631	-	
King Coal Sales, Inc.														
17850127	UMK	14	-	-	-	-	-	-	-	-	921,657	6,796	-	
17880109	UMK	22-26	-	-	-	-	-	-	-	-	372,980	2,992	-	
										<b>Total</b>	<b>1,294,637</b>	<b>9,788</b>	<b>-</b>	

CLEARFIELD 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									
Kitko, Francis B. 17870102	Freeport	48	-	-	-	-	-	-	-	-	-	-	-	-
Linn Corporation 17870129 (a)	UK	24	-	-	-	-	-	-	-	-	-	-	-	-
M. B. Energy, Inc. 17850114	ULF	30-32	-	-	-	-	-	-	-	-	344,720	2,078	2,150	-
17860147	Clarion	42	-	-	-	-	-	-	-	-	-	-	-	-
17880111	ULF	26-32	-	-	-	-	-	-	-	-	-	-	-	-
										<b>Total</b>	<b>344,720</b>	<b>2,078</b>	<b>2,150</b>	
McDonald Land & Mining Co., Inc. 17840126	Mahoning, ULF	12-24-33	-	-	-	-	-	-	-	-	139,881	4,255	-	-
17840150	LF/UK	10-25	-	-	-	-	-	-	-	-	1,298,955	16,393	-	-
17870121	ULF	26	-	-	-	-	-	-	-	-	299,670	4,622	-	-
17880115	UK	25	-	-	-	-	-	-	-	-	188,850	3,233	-	-
17890109	LUF	28-32	-	-	-	-	-	-	-	-	919,450	9,281	-	-
Auger - BAM 40179	-	-	-	-	-	-	-	-	-	-	-	-	-	-
										<b>Total</b>	<b>2,846,806</b>	<b>37,784</b>		
McGovern Coal Co., Clair 17840133	MK	22	-	-	-	-	-	-	-	-	89,522	-	-	-
17860142	LF	22	-	-	-	-	-	-	-	-	-	-	-	-
										<b>Total</b>	<b>89,522</b>			
M & M Construction Co. Inc. 17870114	Clarion	38	-	-	-	-	-	-	-	-	13,400	363	128	-
Mary Louise Coal, Inc. 17880117	LF	40	-	-	-	-	-	-	-	-	-	-	-	-
Maud Mining Co. 17880110	LF	42	-	-	-	-	-	-	-	-	431,265	8,482	-	-
Midway Excavating 17820135	Moshannon	16	-	-	-	-	-	-	-	-	-	-	-	-

CLEARFIELD 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	Open	Flame Safety	Elec- tric	Ammonium Nitrate	Dynamite	Other Permis- sible (Name)
				Length	Degrees									
Moshannon Falls Mining Co., Inc. 17850144	UF	18	-	-	-	-	-	-	-	-	258,320	250	3,725	
Northern Counties Coal Co., Inc. 17743172	LMUK	18-24-48	-	-	-	-	-	-	-	-	1,293,090	9,315	11,579	
17820180	LMUK	18-24-48	-	-	-	-	-	-	-	-	193,221	1,393	1,730	
17860111	Clarion/Mercer	19-28	-	-	-	-	-	-	-	-	146,330	5,289	5,337	
17860120	LF/UMK	18-24-36	-	-	-	-	-	-	-	-	1,168,363	7,227	5,170	
17880124	LF/UK	28-36	-	-	-	-	-	-	-	-	348,748	3,609	1,906	
									<b>Total</b>		<b>3,149,752</b>	<b>26,833</b>	<b>25,722</b>	
P & N Coal Co. Inc. 17743003	UK/LUF	28-36	-	-	-	-	-	-	-	-	601,930	15,107	39,100	
17793010	UK/LUF	28-36	-	-	-	-	-	-	-	-	22,220	265	300	
									<b>Total</b>		<b>624,150</b>	<b>15,372</b>	<b>39,400</b>	
Penn-Grampian Coal Co. 17840120	ULF	24-26	-	-	-	-	-	-	-	-	458,770	17,165	3,001	
17870104	LK	28	-	-	-	-	-	-	-	-	41,035	1,134	364	
									<b>Total</b>		<b>499,805</b>	<b>18,299</b>	<b>3,365</b>	
Power Operating Co., Inc. 17673057	UMLK	18-108	-	-	-	-	-	-	-	-	1,997,616	32,269	-	
17820114	MK	8-24	-	-	-	-	-	-	-	-	32,300	398	-	
17850102	-	-	-	-	-	-	-	-	-	-	-	-	-	
17860144	UK/LF	18-48	-	-	-	-	-	-	-	-	-	-	-	
									<b>Total</b>		<b>2,029,916</b>	<b>32,667</b>	<b>-</b>	
R.B. Contracting 17890103	UF	16	-	-	-	-	-	-	-	-	-	-	-	
Ratay Coal, Inc. 17830134	ULK/LF	24-40-42	-	-	-	-	-	-	-	-	186,989	1,845	3,009	

CLEARFIELD 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 Length	Drift Degrees	Drift Drift	Gas- eous	Non- Gas- eous	Open	Flame Safety	Elec- tric	Ammonium Nitrate	Dynamite		
															Total
Reese, Philip 17814033	ULMK	22-32-34	-	-	-	-	-	-	-	-	-	151,990	2,580	-	
River Hill Coal Co., Inc. 1766307	MUK/LUF	24-28-36	-	-	-	-	-	-	-	-	-	2,317,232	7,724	-	
17753050	LF/Rider	15	-	-	-	-	-	-	-	-	-	16,364	171	-	
17803049	MUK/LF/Rider	12-28	-	-	-	-	-	-	-	-	-	281,688	939	-	
												<b>Total</b>	<b>2,615,284</b>	<b>8,834</b>	<b>-</b>
Ryan Bros. Coal Co. 17800146 (a)	LUF	24-26	-	-	-	-	-	-	-	-	-	-	-	-	
17840104 (a)	Kittanning/ULF	16-30	-	-	-	-	-	-	-	-	-	-	-	-	
Sky Haven Coal, Inc. 17683148	MUK	24	-	-	-	-	-	-	-	-	-	131,003	3,360	-	
17683149	LMUK	30	-	-	-	-	-	-	-	-	-	82,701	982	-	
17753116	UK	30	-	-	-	-	-	-	-	-	-	47,148	85	-	
17783017	LMUK	26	-	-	-	-	-	-	-	-	-	262,312	6,018	-	
17793088	LMUK	26	-	-	-	-	-	-	-	-	-	182,612	2,493	-	
17803094	MUK/LUF	40	-	-	-	-	-	-	-	-	-	294,996	8,866	-	
17813084	MUK/LF	24	-	-	-	-	-	-	-	-	-	214,962	6,676	-	
17813091	LK/Rider	30	-	-	-	-	-	-	-	-	-	68,397	1,042	-	
17813093	UK/LF	28	-	-	-	-	-	-	-	-	-	166,312	7,121	-	
17820131	MUK	24	-	-	-	-	-	-	-	-	-	64,212	1,044	-	
17820148	UK/LF	28	-	-	-	-	-	-	-	-	-	217,301	4,012	-	
17820182	MK/LUF	30	-	-	-	-	-	-	-	-	-	184,282	2,063	-	
17830116	LUF	60	-	-	-	-	-	-	-	-	-	98,800	6,205	-	
17840125	UF/Mahoning	38	-	-	-	-	-	-	-	-	-	142,371	1,795	-	
17840130	UF/Mahoning	38	-	-	-	-	-	-	-	-	-	24,988	354	-	
17850124	LMUK	24	-	-	-	-	-	-	-	-	-	2,036	-	-	
17850142	UF	24	-	-	-	-	-	-	-	-	-	12,692	95	-	
17850143	MUK	24	-	-	-	-	-	-	-	-	-	108,399	3,088	-	
17850145	MK	24	-	-	-	-	-	-	-	-	-	14,917	200	-	
17860101	MUK/LF	34	-	-	-	-	-	-	-	-	-	116,243	8,706	-	



CLEARFIELD 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										
Sky Haven Coal, Inc. (Continued)															
17860104	MK	30	-	-	-	-	-	-	-	-	-	47,148	85	-	
17860108	MK	28	-	-	-	-	-	-	-	-	-	92,300	1,017	-	
17860148	UK/LF	28	-	-	-	-	-	-	-	-	-	82,605	2,119	-	
17870111	UF	40	-	-	-	-	-	-	-	-	-	63,330	1,012	-	
17880118	LF	108	-	-	-	-	-	-	-	-	-	-	-	-	
										<b>Total</b>		<b>2,722,067</b>	<b>68,438</b>	<b>-</b>	
Strishock Coal Co.															
17693009	MLK	24	-	-	-	-	-	-	-	-	-	226,055	682	1,139	
17793123	MLK	24	-	-	-	-	-	-	-	-	-	121,400	422	684	
17803096	MLK	24	-	-	-	-	-	-	-	-	-	1,090,828	2,845	4,998	
										<b>Total</b>		<b>1,438,283</b>	<b>3,949</b>	<b>6,821</b>	
Swisher Contracting, Inc.															
17860138	Coal	22	-	-	-	-	-	-	-	-	-	74,610	2,791	3,925	
17870131	Coal	30	-	-	-	-	-	-	-	-	-	-	-	-	
17890107	Coal	28	-	-	-	-	-	-	-	-	-	-	-	-	
Auger - BAM 40176	Coal	22	-	-	-	-	-	-	-	-	-	-	-	-	
Auger - BAM 40177	Coal	30	-	-	-	-	-	-	-	-	-	-	-	-	
										<b>Total</b>		<b>74,610</b>	<b>2,791</b>	<b>3,925</b>	
Swistock Assoc. Coal Corp.															
17870110	MK Rider/MK	17-20	-	-	-	-	-	-	-	-	-	135,160	1,841	1,350	
T & T Clay Co.															
1780107	MK	30	-	-	-	-	-	-	-	-	-	-	-	-	
Thomas Coal Co., Inc.															
17773075	LF	20	-	-	-	-	-	-	-	-	-	-	-	-	
17783076	UK/UF Rider	14-34	-	-	-	-	-	-	-	-	-	-	-	-	
177820177	LMK/LUF	72-26	-	-	-	-	-	-	-	-	-	1,155,027	16,570	-	
1780119	LK	27	-	-	-	-	-	-	-	-	-	393,975	7,224	-	

CLEARFIELD 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-	Gas-	Flame	Elec-	Ammonium Nitrate	Dynamite	Other Permis- sible (Name)
			Depth	Length	Degrees	Drift	eous	eous	Open					
Thomas Coal Co., Inc.														
17870123	UF	18	-	-	-	-	-	-	-	-	-	76,645	1,498	-
17890104	UK	20	-	-	-	-	-	-	-	-	-	-	-	-
										<b>Total</b>		<u>1,625,647</u>	<u>25,292</u>	<u>-</u>
Turner Coal Co., W. R.														
17774017 (a)	MLK	24-36	-	-	-	-	-	-	-	-	-	-	-	-
Auger BAM 40180 (a)	MLK	24-36	-	-	-	-	-	-	-	-	-	-	-	-
Waroquier Coal Co.														
17850125	ULF	24-28	-	-	-	-	-	-	-	-	-	379,859	7,286	-
17850140	UF	26	-	-	-	-	-	-	-	-	-	57,872	1,273	-
17880106	ULF	24-30	-	-	-	-	-	-	-	-	-	149,775	2,516	-
Auger - - BAM 40199	ULF	24-28	-	-	-	-	-	-	-	-	-	-	-	-
										<b>Total</b>		<u>587,506</u>	<u>11,075</u>	<u>-</u>
Welker, J. E.														
1780135	Clarion	14	-	-	-	-	-	-	-	-	-	-	-	-
17840116	Freeport	30	-	-	-	-	-	-	-	-	-	17,300	200	-
										<b>Total</b>		<u>17,300</u>	<u>200</u>	<u>-</u>
										<b>COUNTY TOTAL</b>		<u>40,389,803</u>	<u>1,914,812</u>	<u>509,217</u>

**Note:** (a) Blasting done by contractor  
 Symbols for Geologic Name of Coal Bed:  
 UK - Upper Kittanning  
 MK - Middle Kittanning  
 LK - Lower Kittanning  
 UF - Upper Freeport  
 MF - Middle Freeport  
 LF - Lower Freeport

CLEARFIELD COUNTY ADDENDUM

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	eous	eous	Open						Safety	tric
Addendum																
Avery Coal Co., Inc.	Clarion/Mercer	15-26	-	-	-	-	-	-	-	-	-	-	105,005	3,487	-	
17820143		Mercer	40	-	-	-	-	-	-	-	-	-	5,295	153	-	
17880127		Mercer	26	-	-	-	-	-	-	-	-	-	-	-	-	
Auger - BAM 40168	Mercer	26	-	-	-	-	-	-	-	-	-	-	-	-	-	
													<b>Total</b>	110,300	3,640	-
Becker Coal Co., Paul F.	Mahoning	36	-	-	-	-	-	-	-	-	-	-	-	-	-	
17850113		UF	22	-	-	-	-	-	-	-	-	-	476,534	1,281	2,844	
17743061		UF	22	-	-	-	-	-	-	-	-	-	308,911	1,142	2,472	
17824040	UF	22	-	-	-	-	-	-	-	-	-	-	-	-	-	
17890113	UF	22	-	-	-	-	-	-	-	-	-	-	-	-	-	
													<b>Total</b>	785,445	2,423	5,316
Clearfield Appalachian Coal, Inc.	UF	26	-	-	-	-	-	-	-	-	-	-	-	-	-	
1780120		UF	26	-	-	-	-	-	-	-	-	-	-	-	-	
Hanslovan Coal Co., Inc. Ed.	UMLK	17-24-36	-	-	-	-	-	-	-	-	-	-	2,523,328	21,401	266,665	
17870116		UMLK	17-24-36	-	-	-	-	-	-	-	-	-	-	-	-	
Kasubick Bros. Coal Co.	LK	20	-	-	-	-	-	-	-	-	-	-	28,000	830	-	
17820129		LK	20	-	-	-	-	-	-	-	-	-	-	-	-	
Mustang Coal & Contr. Co.	LK	38	-	-	-	-	-	-	-	-	-	-	-	-	-	
17823174		LK	38	-	-	-	-	-	-	-	-	-	185,334	1,673	-	
17860114		LK	38	-	-	-	-	-	-	-	-	-	298,881	1,721	-	
17890106	LK	38	-	-	-	-	-	-	-	-	-	-	-	-	-	
													<b>Total</b>	484,215	3,394	-
Roy Coal Co., Inc.	MUK	15-30	-	-	-	-	-	-	-	-	-	-	30,250	-	350	
17743165		MUK	15-30	-	-	-	-	-	-	-	-	-	-	-	-	
Sky Haven Coal Co., Inc.	MUK	20	-	-	-	-	-	-	-	-	-	-	132,391	644	-	
17820104		MUK	20	-	-	-	-	-	-	-	-	-	-	-	-	
17890111	LF	14	-	-	-	-	-	-	-	-	-	-	-	-	-	
													<b>Total</b>	132,391	644	350

CLEARFIELD COUNTY (Continued)

Operators and Mines/ or Surface Mine Permit No.	Name of Coal or Geological Formation	Height of Seam Inches	Kind of Opening					Non-		Number and Type Lamps Used			Pounds of Explosives Used		
			Shaft Depth	Slope Length	Drift Degrees	Drift Drift	Gas- eous	Gas- eous	Flame Open	Elec- Safety	Elec- tric	Ammonium Nitrate	Dynamite	Other Permis- sible (Name)	
Turner Coal Co. 17793031	Clay Rider	16	-	-	-	-	-	-	-	-	-	-	5,800	45	-
<b>ADDENDUM COUNTY TOTAL</b>												<b>4,099,729</b>	<b>32,377</b>	<b>272,331</b>	

Note:

Symbols for Geologic Name of Coal Bed:

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

CLEARFIELD COUNTY (Addendum No. 2)

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	Drift	Gas- eous	Non- Gas- eous	Flame Open	Elec- tric	Ammonium Nitrate	Dynamite	Other Permis- sible (Name)	
														Addendum Total
Forcey Coal, Inc. 17840141	U.F.	30	-	-	-	-	-	-	-	-	-	-	-	-
17870127	U.F.	37	-	-	-	-	-	-	-	-	-	-	-	-
Wally Coal Co., Inc. 17880120	U.L.F.	40	-	-	-	-	-	-	-	-	-	-	-	-
Addendum Total											-	-	-	

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

## CLINTON 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-	Non-	Flame	Elec-	Ammonium	Dynamite	Other Permis- sible (Name)	
			Depth	Length	Degrees	Drift	eous	eous	Open						Safety
Antrim Mining, Inc. 18820102 1880101	Clarion	60	-	-	-	-	-	-	-	-	-	723,195	55,473	-	
	Clarion	40	-	-	-	-	-	-	-	-	-	349,642	43,492	-	
												<b>Total</b>	<b>1,072,837</b>	<b>98,965</b>	<b>-</b>
Con-Coal, Inc. 18860101	Brookville	30	-	-	-	-	-	-	-	-	-	304,580	6,800	950	
Confer Coal Co. 18793005	Brookville	30	-	-	-	-	-	-	-	-	-	278,860	7,900	865	
												<b>COUNTY TOTAL</b>	<b>1,656,277</b>	<b>113,665</b>	<b>1,815</b>

ELK 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-	Non-	Flame	Elec-	Ammonium	Dynamite	Other Permis- sible (Name)
			Depth	Length	Degrees	Drift	eous	eous	Open					
Bauer Equipment Sales														
24763013	LF	30	-	-	-	-	-	-	-	-	-	-	-	-
24830101	LF	40	-	-	-	-	-	-	-	-	-	-	-	-
Energy Resources, Inc.														
24880101 and BAM 5224	ULF/UK	24	-	-	-	-	-	-	-	-	-	552,717	2,631	3,095e
24880103	LK	27	-	-	-	-	-	-	-	-	-	823,252	2,641	3,652
24890101	UK/LF	24	-	-	-	-	-	-	-	-	-	9,350	35	-
										<b>Total</b>		<b>1,385,319</b>	<b>5,307</b>	<b>6,747</b>
Fairview Coal Co.														
24820110	Unknown	-	-	-	-	-	-	-	-	-	-	-	-	-
24840106T	Unknown	-	-	-	-	-	-	-	-	-	-	-	-	-
28440103	Unknown	-	-	-	-	-	-	-	-	-	-	-	-	-
Auger-BAM 5153	Unknown	-	-	-	-	-	-	-	-	-	-	-	-	-
Heppburnia Coal Co.														
24763006	LUF	19	-	-	-	-	-	-	-	-	-	614,097	12,676	3,856
24820109	MK	24	-	-	-	-	-	-	-	-	-	12,475	247	74e
24880105	UK	24	-	-	-	-	-	-	-	-	-	23,050	472	216e
										<b>Total</b>		<b>649,622</b>	<b>13,395</b>	<b>4,146</b>
Mottern Coal, Inc., Floyd														
24870105	Bituminous	24	-	-	-	-	-	-	-	-	-	-	-	-
24880102	Bituminous	36	-	-	-	-	-	-	-	-	-	-	-	-
P & N Coal Co., Inc.														
24840105	UK/LF	20-32	-	-	-	-	-	-	-	-	-	28,600	117	-
Strishock Coal Co.														
24820107	MK	28	-	-	-	-	-	-	-	-	-	371,957	1,030	1,883e
Tamburlin Bros. Coal Co., Inc.														
24813008	LF	28	-	-	-	-	-	-	-	-	-	-	-	-
24830103	MUF	28	-	-	-	-	-	-	-	-	-	157,250	1,024	8,463
24880104	LF	32	-	-	-	-	-	-	-	-	-	-	-	-
4670BSM4	UF	40	-	-	-	-	-	-	-	-	-	2,000	60	1,350
										<b>Total</b>		<b>159,250</b>	<b>1,084</b>	<b>9,813</b>

ELK 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	Flame Open	Elec- Safety	Elec- tric	Ammonium Nitrate	Dynamite	Other Permis- sible (Name)
Vollmer, Lawrence B. 24673003	ULK	28-30	-	-	-	-	-	-	-	-	-	-	-
COUNTY TOTAL										2,594,748	20,933	22,589	

Note: c Caps

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