RECLAMATION SCHEDULE

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RECLAMATION SCHEDULE

Introduction

This chapter presents a timetable for each major phase of the reclamation plan and projected reclamation schedules for the coal resource areas and lands under support facilities and structures. Additional information regarding the timing of reclamation activities may be found in the chapters that discuss the components of the reclamation plan. For example, seeding periods are discussed in Chapter 23, Revegetation Plan. Until facilities such as roads and sediment ponds are approved as elements of the postmining land use plan, Peabody Western Coal Company (PWCC) must develop schedules for the reclamation of all disturbed lands.

Drawings 85210 (Mine Plan Map) and 85360 (Jurisdictional Permit and Affected Lands Map) identify the limits of disturbance as of December 16, 1977 (pre-SMCRA), interim program, and permanent program lands.

Timing of Reclamation Activities

A generalized timetable of reclamation activities is shown in Figure 1. The timetable outlines the sequence and timing of each major phase of reclamation. It is not possible to precisely specify the timing of each reclamation phase in each mining area for the following reasons: (1) variables such as customer demand for coal, labor strikes, coal quality, overburden characteristics and manpower and equipment availability affect the rate of progress of mining activities; and (2) variables such as manpower and equipment availability, weather conditions, the availability of materials, laboratory analytical delays and the rate of mining advance affect the progress of grading, topsoiling and seeding in each mining area. The reclamation process is only as fast as the rate of production - hence, spoiling of material and the amount of acres graded, topsoiled, and revegetated each year will vary depending on where and when the bottom seam of coal was mined within the pit and within the permit area. Once the spoil piles are graded, the reclamation sequence will occur in accordance with Figure 1 and as described in Chapter 22, 23 and 26.

Figure 1

Reclamation Timetable

Sequence of Activities						Mor	ıth					
	Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Sedimentation Pond			· · · · · · · · · · · · · · · · · · ·					_		, , , , , ,		
Construction			- -									
Linear Detention &												
Filtering Structures				····								
(Minor Disturbance Areas)										÷		
Site Clearing												
Topsoil Salvage												
Blasting										· · · · · ·		
Overburden Removal												
Coal Removal												
Backfilling and Grading												
Topographic Manipulation												
Measures Used in Conjunction	ı											
w/Diversions & Overland												
Conveyances												
Topsoil Redistribution,												
Graded Spoil Sampling, Conto	our Te	rrace	e Cons	struct	ion							
Spoil or Soil Surface												
Mechanical Manipulation												
Measures		. – – – -										
Seeding/Vegetation Measures		- -		~								
Mulching												
Key Habitat Area Planting									_			
Fencing												-
Maintenance & Management												
Notes: Operations pe				-								

Sedimentation pond construction, or construction of linear detention and filtering structures is completed prior to any other surface disturbances. These activities insure sediment control and protection of the hydrologic system (Chapters 6 and 26).

Clearing of woody or other materials which could interfere with topsoil removal, or potentially contaminate topsoil is performed immediately prior to topsoil removal in a given area. Site clearing and topsoil salvage operations (Chapter 22) are typically conducted from March to November. These activities may be conducted in other months if mining conditions warrant and weather conditions permit.

Following coal removal, backfilling and grading activities, as described in Chapters 21 and 26, are conducted. These activities are performed throughout the year. They include manipulation of the landform within the confines of approximate original contour to improve the runoff characteristics of the reclaimed landscape.

During and after the completion of rough grading, the appropriate data is collected to design and construct the postmining diversions and overland water conveyance systems (main reclamation channels and downdrains). The designs are installed during the course of the reclamation process. These procedures are detailed in the Surface Stabilization Plan (Chapter 26), and are typically conducted from March through November.

Topsoil material redistribution, the associated graded spoil suitability determinations (Chapter 22), and the construction of contour terraces follow the same timetable as salvage operations. If ground and weather conditions permit, topsoil material redistribution may be conducted in months other than those indicated in the reclamation timetable (Figure 1).

Mechanical manipulation of the spoil and topsoil is conducted following the redistribution of the topsoil material. These activities primarily entail deep ripping and contour furrow disking and are described in detail in Chapters 21, 22, and 26. These operations are performed from March through October, or at other times when weather and surface conditions permit.

Seeding and mulching of topsoiled areas will mostly be conducted during the primary seeding season following topsoil redistribution and mechanical manipulation, weather

permitting. Therefore, the schedule for these activities parallels the topsoil redistribution and surface mechanical manipulation schedule. Seeding and mulching may be conducted during the secondary seeding season, weather and ground conditions permitting. Revegetation activities are discussed in Chapters 23 and 26.

Fence construction is performed throughout the year. Construction is interrupted only by inclement weather.

Maintenance and management activities are conducted throughout the year. The timing of these activities is dependent upon the specific activity. Fence maintenance and removal of trespass livestock are conducted throughout the year. Interseeding and reseeding is conducted either during the primary or secondary seeding seasons based on needed remedial work. Surface stability monitoring and remedial actions are conducted as described in Chapter 26.

Projected Reclamation Schedules

The projected reclamation schedules for the eight coal resource areas in which mining and reclamation will occur during the life of operations at the Black Mesa Complex are presented in Tables 1 through 9. The projected acres disturbed, backfilled and graded, and topsoiled and seeded for five year mine blocks, where appropriate, are included in the tables.

The projections of acres graded, topsoiled, and seeded are based upon three basic considerations. First, approximately three spoil rows are normally rough graded simultaneously once the pit configurations become regular to achieve the desired postmining land configuration and to effectively maintain topographic continuity between grading sequences. Upon OSM approval, the number of spoils associated with irregular box cuts, certain inside and outside curves, and haulage ramps may exceed four to facilitate grading. Second, the point in time at which grading of specific spoils can begin is based upon excavation cycle times and pit configuration. Cycle times are dependent upon factors such as pit configurations, excavator performance, overburden thickness, the number and thicknesses of partings, and customer demand (see Drawing No. 85210-Mine Plan Map). Third, once grading begins, the amount of acres graded, topsoiled, and seeded annually in a given pit approximates the acres disturbed annually; however, this will vary each year within each mine area with the pit progression and the spoil area available for

			Acres
	Acres	Acres	Topsoiled
Year	Disturbed	Graded	and Seeded
As of 01/01/2004	245	163	N.A.
2004	37	99	75
2005	16	163	252
Soil Stockpiles (2005)	37	0	37
Ponds (2011)	65	65	65
Black Mesa Office Complex			
(2030)	198	198	198
Totals:	598	688	627

 $^{^1}$ Accounts for topsoiled and seeded acres after 01/01/2004. See Annual Reclamation Reports for acres disturbed, graded, topsoiled and seeded prior to the above date.

			Acres
	Acres	Acres	Topsoiled
Year	Disturbed	Graded	and Seeded
As of 01/01/2004 ·	739	345	N.A.
2004	91	130	179
2005	95	120	150
2006	90	50	50
2007	100	100	100
2008	0	166	166
Scoria Pits (2030)	154	154	154
Central Ops/Warehouse (2030)	133	133	133
Outside Roads (2017)	310	310	310
J-3 Airport Complex (2030)	21	21	21
Ponds (2016)	244	244	244
Soil Stockpiles (2010, 2016)	45	0	45
Totals:	2267	2222	2267

¹Accounts for topsoiled and seeded acres after 01/01/2004. See Annual Reclamation Reports for acres disturbed, graded, topsoiled and seeded prior to the above date.

			Acres
	Acres	Acres	Topsoiled
Year	Disturbed	Graded	and Seeded
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	·		
		N-10 Coal Resource	Area
As of 1/01/2004	0	46	N.A.
Beyond 2010	660	660	660
Ponds (Beyond 2010)	21	21	21
Topsoil Piles (Beyond 2010)	42	42	42
Outside Roads(Beyond 2010)	52	52	52
Totals:	775	821	775

		N-11 Coal Resource Are	ea
As of 12/01/2001	797	65	N.A.
12/01/2001 - 2002	0	69	76
2003	0	70	69
2004	0	118	70
2005	0	386	118
2006	0	89	386
2007	0	0	78
Ponds (2014)	27	27	27
Topsoil Piles (2006)	32	0	32
N-11 Truck Dump Fac. (2026)	74	74	74
Totals:	930	898	930

¹Accounts for topsoiled and seeded acres after 12/01/2001. See Annual Reclamation Reports for acres disturbed, graded, topsoiled, and seeded prior to the above date.

			Acres		
	Acres	Acres	Topsoiled		
Year	Disturbed	Graded	and Seeded		
As of 12/01/2001	825	342	N.A.		
12/01/2001 - 2002	255	126	357		
2003	783	158	105		
2004	253	120	158		
2005	201	121	134		
2006-2011	949	1782	1425		
Beyond 2011	272	959	1429		
Topsoil Piles (Life of Pit)	118	0	118		
Ponds (Beyond 2011)	127	127	127		
J28 Shop and Facilities.	273	273	273		
N8 Facilities	173	173	173		
Outside Roads	100	100	100		
Conveyor	200	200	200		
Totals:	4529	4481	4599		

¹Accounts for topsoiled and seeded acres after 12/01/2001. See Annual Reclamation Reports for acres disturbed, graded, topsoiled, and seeded prior to the above date.

			Acres
	Acres	Acres	Topsoiled
Year	Disturbed	Graded	and Seeded
As of 12/01/2001	1147	313	N.A.
	187		
12/01/2001 - 2002	187	151	253
2003	138	96	151
2004	100	145	96
2005	100	240	191
2006-2011	1393	1581	1265
Beyond 2011	268	1120	1690
Topsoil Piles (Life of Pit)	165	0	165
Ponds (Beyond 2011)	61	61	61
Scoria Pits (Beyond 2011)	142	142	142
Totals:	3701	3849	401.4

¹Accounts for topsoiled and seeded acres after 12/01/2001. See Annual Reclamation Reports for acres disturbed, graded, topsoiled, and seeded prior to the above date.

			Acres
	Acres	Acres	Topsoiled
Year	Disturbed	Graded	and Seeded
		-J-23 Coal Resource A	rea
As of 01/01/2004	0	0	0
2006-2010	498	498	498
Beyond 2010	983	983	983
Topsoil Piles (Life of Pit)	84	0	84
Ponds (Life of Pit)	42	42	42
Outside Roads (Life of Pit)	198	198	198
Totals:	1805	1721	1805
		N-99 Coal Resource A	rea
As of 01/01/2004	0	0	0
2005-2010	767	767	767
Beyond 2010	2031	2031	2031
Topsoil Piles (Life of Pit)	112	0	112
Ponds (Life of Pit)	56	56	56
Outside Roads (Life of Pit)	0	0	0
Totals:	2966	2854	2966

¹Accounts for topsoiled and seeded acres after 01/01/2004. See Annual Reclamation Reports for acres disturbed, graded, topsoiled, and seeded prior to the above date.

Projected Reclamation Schedule for the J-2, J-4, J-6 Coal Resource Areas^1

			Acres
	Acres	Acres	Topsoiled
Year	Disturbed	Graded	and Seeded
THE TOTAL PROPERTY AND THE PROPERTY OF THE PRO		-J-2 Coal Resource Ar	
As of 1/01/2004	0	0	0
Beyond 2010	610	610	610
Ponds (Beyond 2010)	0	0	0
Topsoil Piles (Beyond 2010)	24	0	24
Outside Roads(Beyond 2010)	30	30	30
Totals:	683	659	683
		-J-4 Coal Resource Ar	rea
As of 1/01/2004	0	0	0
Beyond 2010	286	286	286
Ponds (Beyond 2010)	6	6	6
Topsoil Piles (Beyond 2010)	11	0	11
Outside Roads(Beyond 2010)	14	14	14
Totals:	317	306	317
		-J-6 Coal Resource Ar	rea
As of 1/01/2004	0	0	0
Beyond 2010	821	821	821
Ponds (Beyond 2010)	17	17	17
Topsoil Piles (Beyond 2010)	32	0	32
Outside Roads(Beyond 2010)	41	41	41
Totals:	911	879	911

¹Accounts for topsoiled and seeded acres after 01/01/2004. See Annual Reclamation Reports for acres disturbed, graded, topsoiled, and seeded prior to the above date.

Projected Reclamation Schedule for the J-8, J-9, J-10 Coal Resource Areas^1

			Acres
	Acres	Acres	Topsoiled
Year	Disturbed	Graded	and Seeded
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		-J-8 Coal Resource A	
As of 1/01/2004	0	0	0
Beyond 2010	269	269	269
Ponds (Beyond 2010)	6	6	6
Topsoil Piles (Beyond 2010)	11	0	11
Outside Roads(Beyond 2010)	34	34	34
Totals:	320	309	320
		-J-9 Coal Resource A	rea
As of 1/01/2004	0	0	0
Beyond 2010	272	272	272
Ponds (Beyond 2010)	б	6	6
Topsoil Piles (Beyond 2010)	11	0	11
Outside Roads(Beyond 2010)	25	25	25
Totals:	314	303	314
		-J-10 Coal Resource A	Area
As of 1/01/2004	0	0	0
Beyond 2010	326	326	326
Ponds (Beyond 2010)	7	7	7
Topsoil Piles (Beyond 2010)	13	0	13
Outside Roads(Beyond 2010)	16	16	16
Totals:	362	349	362

¹Accounts for topsoiled and seeded acres after 01/01/2004. See Annual Reclamation Reports for acres disturbed, graded, topsoiled, and seeded prior to the above date.

Projected Reclamation Schedule for the J-14, J-15, J-28 Coal Resource Areas^1

			Acres
	Acres	Acres	Topsoiled
Year	Disturbed	Graded	and Seeded
		-J-14 Coal Resource A	rea
As of 1/01/2004	0	0	0
Beyond 2010	755	755	755
Ponds (Beyond 2010)	15	15	15
Topsoil Piles (Beyond 2010)	30	0	30
Outside Roads(Beyond 2010)	10	10	10
Totals:	810	780	810
		-J-15 Coal Resource A	rea
As of 1/01/2004	0	0	0
Beyond 2010	428	428	428
Ponds (Beyond 2010)	9	9	9
Topsoil Piles (Beyond 2010)	17	0	17
Outside Roads(Beyond 2010)	31	31	31
Totals:	485	468	485
		-J-28 Coal Resource A	rea
As of 1/01/2004	0	0	0
Beyond 2010	674	674	674
Ponds (Beyond 2010)	10	10	10
Topsoil Piles (Beyond 2010)	27	0	27
Outside Roads(Beyond 2010)	14	14	14
Totals:	725	698	725

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backfilling and grading. Further, the amount of time needed to complete grading, topsoiling, and seeding after mining ceases is approximately equal to the lag time between the initiation of mining and the initiation of grading. In certain circumstances, this generalization may not apply because of the spoil material needed to achieve the designed postmining landform. For example, the backfilling and grading of box cut spoil and deep ramps typically requires the movement of large volumes of spoil for great distances. In conclusion, the reclamation process will proceed relative to the mining production, on an annual basis throughout the permitted area.

Abandonment of Operations

All facilities will be reclaimed unless approved as an element of the postmining land use plan. After grading, the reclaimed areas will be topsoiled or covered with suitable plant growth medium and revegetated. Three to five years will be needed to completely reclaim all facilities and structures following the cessation of mining. Abandonment of mine facilities will commence when the facilities are no longer required to support mining activities. The structures and equipment including foundations and sub-bases will be removed; unless approved by the applicable regulatory authority to be reclaimed in-place. Materials having economic value will be salvaged. Materials that are not salvageable will be buried in accordance with the noncoal mine waste disposal plan as required by 30 CFR 816.89. All structure sites will be contoured to conform with the natural landform. Cut and fill slopes which are compatible with the postmining land use and which are approved by the regulatory authority will be retained.

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Introduction

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Figure 1

Reclamation Timetable

Sequence of Activities	Month											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Sedimentation Pond											·	
Construction				<u>-</u> _								
Linear Detention &												
Filtering Structures												. -
(Minor Disturbance Areas)												
Site Clearing												
Topsoil Salvage												
Blasting												
Overburden Removal												
Coal Removal					-	_ _						
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Topographic Manipulation		-										
Measures Used in Conjunction	n											
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Topsoil Redistribution,												
Graded Spoil Sampling, Conto	our Te	errace	Cons	struct	ion							
Spoil or Soil Surface												
Mechanical Manipulation												
Measures		 -	· <u>-</u>	- <u>-</u>								
Seeding/Vegetation Measures		- -										
Mulching												
Key Habitat Area Planting									-			
Fencing												
Maintenance & Management										 -		
		 -										
Notes: Operations pe	rforme	ed dur	cing p	period	ds ind	icated	l. Pr	imary	reve	getat:	ion se	ason.
Operations pe	rforme	ed, we	eathe	r perm	nittin	a. Se	conda	arv re	veaet	ation	seaso	'n.

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TABLE 1 $\,$ Projected Reclamation Schedule for the J-7 Coal Resource ${\rm Area}^1$

			Acres
	Acres	Acres	Topsoiled
Year	Disturbed	Graded	and Seeded
As of 01/01/2004	245	163	N.A.
2004	37	99	75
2005	16	163	252
Soil Stockpiles (2005)	37	0	37
Ponds (2011)	65	65	65
Black Mesa Office Complex			
(2030)	198	198	198
Totals:	598	688	627

¹Accounts for topsoiled and seeded acres after 01/01/2004. See Annual Reclamation Reports for acres disturbed, graded, topsoiled and seeded prior to the above date.

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	Acres	Acres	Topsoiled
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Ponds (2016)	244	244	244
Soil Stockpiles (2010, 2016)	45	0	45
Totals:	2267	2222	2267

 $^{^1}$ Accounts for topsoiled and seeded acres after 01/01/2004. See Annual Reclamation Reports for acres disturbed, graded, topsoiled and seeded prior to the above date.

			Acres
	Acres	Acres	Topsoiled
Year	Disturbed	Graded	and Seeded
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	·		
•		-N-10 Coal Resource A	rea
As of 1/01/2004	0	46	N.A.
Beyond 2010	660	660	660
Ponds (Beyond 2010)	21	21	21
Topsoil Piles (Beyond 2010)	42	42	42
Outside Roads(Beyond 2010)	52	52	52
Totals:	775	821	775

		N-11 Coal Resource Area		
As of 12/01/2001	797	65	N.A.	
12/01/2001 - 2002	0	69	76 .	
2003	0	70	69	
2004	0	118	70	
2005	0	386	118	
2006	0	89	386	
2007	0	0	78	
Ponds (2014)	27	27	27	
Topsoil Piles (2006)	32	0	32	
N-11 Truck Dump Fac. (2026)	74	74	74	
Totals:	930	898	930	

¹Accounts for topsoiled and seeded acres after 12/01/2001. See Annual Reclamation Reports for acres disturbed, graded, topsoiled, and seeded prior to the above date.

			Acres		
	Acres	Acres	Topsoiled		
Year	Disturbed	Graded	and Seeded		
As of 12/01/2001	825	342	N.A.		
12/01/2001 - 2002	255	126	357		
2003	783	158	105		
2004	253	120	158		
2005	201	121	134		
2006-2011	949	1782	1425		
Beyond 2011	272	959	1429		
Topsoil Piles (Life of Pit)	118	0	118		
Ponds (Beyond 2011)	127	127	127		
J28 Shop and Facilities.	273	273	273		
N8 Facilities	173	173	173		
Outside Roads	100	100	100		
Conveyor	200	200	200		
Fotals:	4529	4481	4599		

¹Accounts for topsoiled and seeded acres after 12/01/2001. See Annual Reclamation Reports for acres disturbed, graded, topsoiled, and seeded prior to the above date.

TABLE 5

Projected Reclamation Schedule for the J-21 Coal Resource Area 1

			Acres
	Acres	Acres	Topsoiled
Year	Disturbed	Graded	and Seeded
As of 12/01/2001	1147	313	N.A.
12/01/2001 - 2002	187	151	253
2003	138	96	151
2004	100	145	96
2005	100	240	191
2006-2011	1393	1581	1265
Beyond 2011	268	1120	1690
Topsoil Piles (Life of Pit)	165	0	165
Ponds (Beyond 2011)	61	61	61
Scoria Pits (Beyond 2011)	142	142	142
Totals:	3701	3849	4014

¹Accounts for topsoiled and seeded acres after 12/01/2001. See Annual Reclamation Reports for acres disturbed, graded, topsoiled, and seeded prior to the above date.

			Acres
	Acres	Acres	Topsoiled
Year	Disturbed	Graded	and Seeded
		J-23 Coal Resource A	Area
As of 01/01/2004	0	0	0
2006-2010	498	498	498
Beyond 2010	983	983	983
Popsoil Piles (Life of Pit)	84	0	84
Ponds (Life of Pit)	42	42	42
Outside Roads (Life of Pit)	198	198	198
Totals:	1805	1721	1805
		N-99 Coal Resource A	rea
As of 01/01/2004	0	0	0
2005-2010	767	767	767
Beyond 2010	2031	2031	2031
Popsoil Piles (Life of Pit)	112	0	112
Ponds (Life of Pit)	56	56	56
Outside Roads (Life of Pit)	0	0	0
Totals:	2966	2854	2966

¹Accounts for topsoiled and seeded acres after 01/01/2004. See Annual Reclamation Reports for acres disturbed, graded, topsoiled, and seeded prior to the above date.

TABLE 7

Projected Reclamation Schedule for the J-2, J-4, J-6 Coal Resource Areas 1

			Acres
	Acres	Acres	Topsoiled
Year	Disturbed	Graded	and Seeded
тем и элем в политиров до в тем 1666 посто поли вания в в достубения в посто посто посто посто посто посто пос Стите в элем в посто	nicology and Proposition (Control of the Marine Large of Marine (Control of the Control of the C	unga pari Miki dini kini manan enemu enemu enemu ana pari di kini di kini di kini di kini di kini manan pen saga Hini. Ada kini di	derentation to the contract of
		-J-2 Coal Resource Ar	
As of 1/01/2004	0	0	0
Beyond 2010	610	610	610
Ponds (Beyond 2010)	0	0	0
Topsoil Piles (Beyond 2010)	24	0	. 24
Outside Roads(Beyond 2010)	30	30	30
Totals:	683	659	683
		-J-4 Coal Resource Ar	ea
As of 1/01/2004	0	0	0
Beyond 2010	286	286	286
Ponds (Beyond 2010)	6	6	6
Topsoil Piles (Beyond 2010)	11	0	11
Outside Roads (Beyond 2010)	14	14	14
Totals:	317	306	317
		-J-6 Coal Resource Ar	ea
As of 1/01/2004	0	0	0
Beyond 2010	821	821	821
Ponds (Beyond 2010)	17	17	17
Topsoil Piles (Beyond 2010)	32	0	32
Outside Roads(Beyond 2010)	41	41	41
Totals:	911	879	911

¹Accounts for topsoiled and seeded acres after 01/01/2004. See Annual Reclamation Reports for acres disturbed, graded, topsoiled, and seeded prior to the above date.

Projected Reclamation Schedule for the J-8, J-9, J-10 Coal Resource Areas^1

			Acres
	Acres	Acres	Topsoiled
Year	Disturbed	Graded	and Seeded
Values (Intel® 4 to 10 (VAR) for consider that with an expense of public Mindre (Var) where the construction of the the Const		-J-8 Coal Resource Ar	
As of 1/01/2004	0	0	0
Beyond 2010	269	269	269
Ponds (Beyond 2010)	6	6	6
Topsoil Piles (Beyond 2010)	11	0	11
Outside Roads (Beyond 2010)	34	34	34
Totals:	320	309	320
		-J-9 Coal Resource Ar	ea
As of 1/01/2004	0	0	0
Beyond 2010	272	272	272
Ponds (Beyond 2010)	6	6	6
Topsoil Piles (Beyond 2010)	11	0	11
Outside Roads(Beyond 2010)	25	25	25
Totals:	314	303	314
		-J-10 Coal Resource A	rea
As of 1/01/2004	0	0	0
Beyond 2010	326	326	326
Ponds (Beyond 2010)	7	7	7
Topsoil Piles (Beyond 2010)	13	0	13
Outside Roads(Beyond 2010)	16	16	16
Totals:	362	349	362

¹Accounts for topsoiled and seeded acres after 01/01/2004. See Annual Reclamation Reports for acres disturbed, graded, topsoiled, and seeded prior to the above date.

Projected Reclamation Schedule for the J-14, J-15, J-28 Coal Resource ${\sf Areas}^1$

			Acres
	Acres	Acres	Topsoiled
Year	Disturbed	Graded	and Seeded
		-J-14 Coal Resource A	rea
As of 1/01/2004	0	0	0
Beyond 2010	755	755	755
Ponds (Beyond 2010)	15	15	15
Topsoil Piles (Beyond 2010)	30	0	30
Outside Roads(Beyond 2010)	10	10	10
Totals:	810	780	810
		-J-15 Coal Resource A	rea
As of 1/01/2004	0	0	0
Beyond 2010	428	428	428
Ponds (Beyond 2010)	9	9	9
Topsoil Piles (Beyond 2010)	17	0	17
Outside Roads(Beyond 2010)	31	31	31
Totals:	485	468	485
		-J-28 Coal Resource Ar	rea
As of 1/01/2004	0	0	0
Beyond 2010	674	674	674
Ponds (Beyond 2010)	10	10	10
Topsoil Piles (Beyond 2010)	27	0	27
Outside Roads(Beyond 2010)	14	14	14
Totals:	725	698	725

¹Accounts for topsoiled and seeded acres after 01/01/2004. See Annual Reclamation Reports for acres disturbed, graded, topsoiled, and seeded prior to the above date.

backfilling and grading. Further, the amount of time needed to complete grading, topsoiling, and seeding after mining ceases is approximately equal to the lag time between the initiation of mining and the initiation of grading. In certain circumstances, this generalization may not apply because of the spoil material needed to achieve the designed postmining landform. For example, the backfilling and grading of box cut spoil and deep ramps typically requires the movement of large volumes of spoil for great distances. In conclusion, the reclamation process will proceed relative to the mining production, on an annual basis throughout the permitted area.

Abandonment of Operations

All facilities will be reclaimed unless approved as an element of the postmining land use plan. After grading, the reclaimed areas will be topsoiled or covered with suitable plant growth medium and revegetated. Three to five years will be needed to completely reclaim all facilities and structures following the cessation of mining. Abandonment of mine facilities will commence when the facilities are no longer required to support mining activities. The structures and equipment including foundations and sub-bases will be removed; unless approved by the applicable regulatory authority to be reclaimed in-place. Materials having economic value will be salvaged. Materials that are not salvageable will be buried in accordance with the noncoal mine waste disposal plan as required by 30 CFR 816.89. All structure sites will be contoured to conform with the natural landform. Cut and fill slopes which are compatible with the postmining land use and which are approved by the regulatory authority will be retained.