

SECTION 31

PERMANENT WASTE DISPOSAL STRUCTURES AND FACILITIES RECLAMATION

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SECTION 31

PERMANENT WASTE DISPOSAL STRUCTURES AND FACILITIES RECLAMATION

LIST OF TABLES

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NUMBER TABLE TITLE

SECTION 31

PERMANENT WASTE DISPOSAL STRUCTURES AND FACILITIES RECLAMATION

LIST OF FIGURES

FIGURE

NUMBER

FIGURE TITLE

SECTION 31

PERMANENT WASTE DISPOSAL STRUCTURES AND FACILITIES RECLAMATION

LIST OF EXHIBITS

EXHIBIT

NUMBER EXHIBIT TITLE

<u>31-1</u>	Area 1 Permit Areas PreLaw Interim Permanent Program_Sheet 1
<u>31-1</u>	Area 3 Permit Areas PreLaw Interim Permanent Program_Sheet 2
<u>31-1</u>	Area 1 and 2 Permit Areas PreLaw Interim Permanent Program_Sheet 3
<u>31-1</u>	Area 2 Permit Areas PreLaw Interim Permanent Program_Sheet 4
<u>31-1</u>	Area 3 Permit Areas PreLaw Interim Permanent Program_Sheet 5
<u>31-1</u>	Area 3 and 4N Permit Areas PreLaw Interim Permanent Program_Sheet 6

SECTION 31

PERMANENT WASTE DISPOSAL STRUCTURES AND FACILITIES RECLAMATION

LIST OF APPENDICES

APPENDIX

NUMBER APPENDIX TITLE

SECTION 31

PERMANENT WASTE DISPOSAL STRUCTURES AND FACILITIES RECLAMATION

LIST OF REVISIONS DURING PERMIT TERM

REV. NUMBER	REVISION DESCRIPTION	DATE APPROVED
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31 PERMANENT WASTE DISPOSAL STRUCTURES AND FACILITIES RECLAMATION

31.1 Coal Mine Waste Disposal Facilities Reclamation

Between 1971 and January 2008 NTEC formerly known BNCC placed Coal Combustion Byproducts (CCB) from Four Corners Power Plant (FCPP) in mined-out pits or ramps at Navajo Mine. NTEC does not intend to use CCB materials for future reclamation within the permit boundary. The following permit text is maintained for historical context.

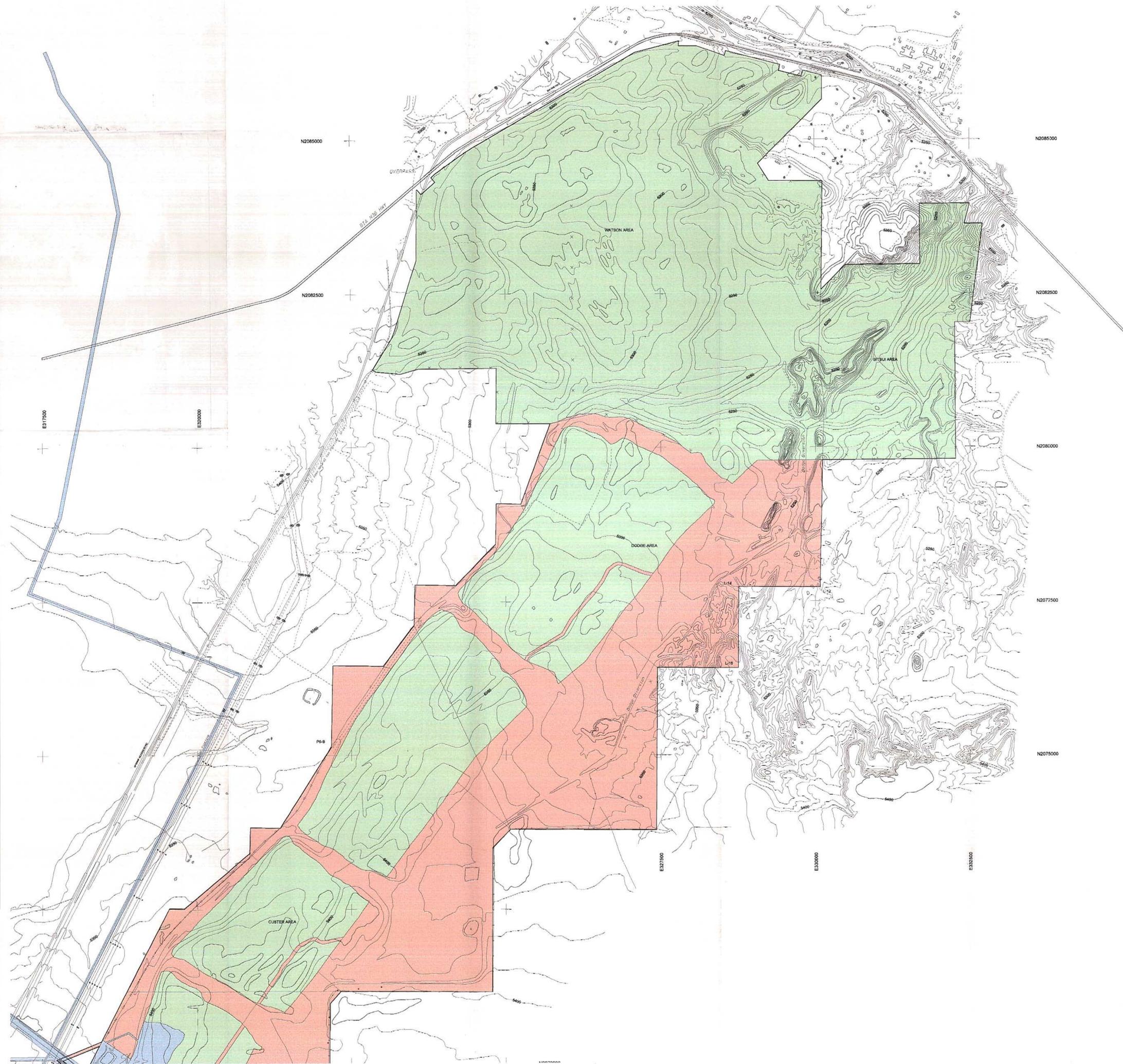
NTEC formerly known BNCC historically tracked only the locations of the CCB disposal areas and the amount of cover placed over the CCB material. The locations of the CCB disposal areas are presented on Exhibit 20-1. The amount of CCB material disposed of was not tracked, the total volume can be estimated but the degree of accuracy would be questionable.

31.1.1 Ash Cover

Following closure of an ash disposal area, a total of three meters of material was used to cover the ash. This 3 meters of cover includes all topdressing and suitable root zone materials. All reclaimed ash disposal areas incorporated positive drainage.

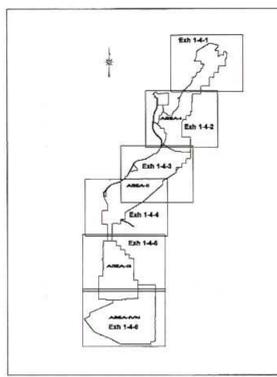
31.1.2 Use of CCB in Backfilling and Grading

In specific areas of the mine, Coal Combustion By-products (CCB) were used to achieve the FSC. The targets for ash disposal were generally final pits and ramps. The specific permanent program lands are indicated on Exhibit 31-1 ([Sheet 1](#), [Sheet 2](#), [Sheet 3](#), [Sheet 4](#), [Sheet 5](#), and [Sheet 6](#)).



- PRE-LAW AREAS:** All lands from which coal was mined from start of mining to December 16, 1977
- INTERIM AREAS:** All lands from which coal was mined between December 16, 1977 to September 24, 1989 or lands which support initial program (Interim) mining and reclamation.
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NOTE
 1. For mine facilities and structures, including Industrial Complexes, roads and railroad, ponds, impoundment, stockpiles and monitoring facilities etc., see Exhibits 11-9, 11-10, 11-11, 11-12, 11-13, 11-14, 11-15, 11-16, and 11-17.



LEGEND

- PAVED ROAD
- DIRT ROAD
- HAIL ROAD
- TRAIL
- BUILDING
- FENCE
- IRRIGATION LINE
- CULVERT
- DAM
- DRAINAGE
- RAILROAD
- TREES
- POWERLINE
- SPOT ELEVATION
- INDEX CONTOUR
- INTERMEDIATE CONTOUR
- HORIZ. & VERT. CONTROL
- LEASE CORNER
- PERMIT BOUNDARY

500 0 500 1000
 CONTOUR INTERVAL: 10'

I, W. BENALLY, HEREBY CERTIFY THE AERIAL DATA SUPPLIED BY AERO-GRAPHICS, INC., DISPLAYED ON THIS DRAWING, EXH. 14-10P7, IS CORRECT AND COMPLETE TO THE BEST OF MY KNOWLEDGE. AERO-GRAPHICS USED CONTROL DATA GENERATED BY BHP NAVAJO COAL COMPANY ENGINEERING DEPARTMENT.



PERMIT COPY
 NM-4063-P

NO.	DATE	BY	REVISION	APPROVED
1	12-14-84	P.J.F.	PERMIT SUBMITTED TO BUREAU OF LAND MANAGEMENT	
2	1-10-85	P.J.F.	PERMIT SUBMITTED TO BUREAU OF LAND MANAGEMENT	
3	2-10-85	P.J.F.	PERMIT SUBMITTED TO BUREAU OF LAND MANAGEMENT	
4	3-10-85	P.J.F.	PERMIT SUBMITTED TO BUREAU OF LAND MANAGEMENT	
5	4-10-85	P.J.F.	PERMIT SUBMITTED TO BUREAU OF LAND MANAGEMENT	
6	5-10-85	P.J.F.	PERMIT SUBMITTED TO BUREAU OF LAND MANAGEMENT	
7	6-10-85	P.J.F.	PERMIT SUBMITTED TO BUREAU OF LAND MANAGEMENT	
8	7-10-85	P.J.F.	PERMIT SUBMITTED TO BUREAU OF LAND MANAGEMENT	
9	8-10-85	P.J.F.	PERMIT SUBMITTED TO BUREAU OF LAND MANAGEMENT	
10	9-10-85	P.J.F.	PERMIT SUBMITTED TO BUREAU OF LAND MANAGEMENT	

EXHIBIT 31-1
BHP BILLITON NAVAJO COAL COMPANY

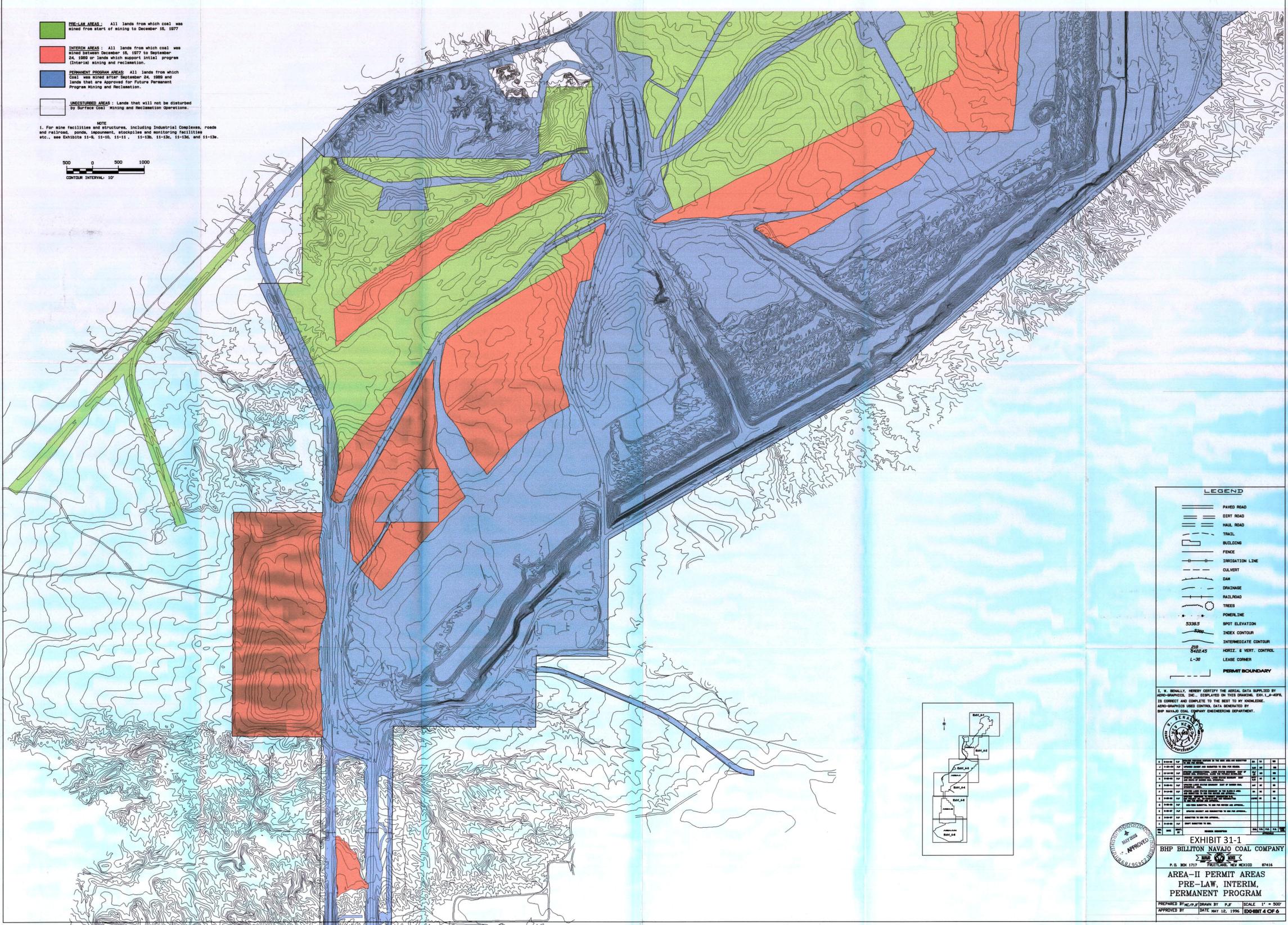
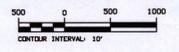
P. O. BOX 1717 FRUITLAND, NEW MEXICO 87416

AREA-I PERMIT AREAS
PRE-LAW, INTERIM,
PERMANENT PROGRAM

PREPARED BY **W.C.P.** DRAWN BY **P.J.F.** SCALE 1" = 500'
 APPROVED BY **W.C.P.** DATE MAY 12, 1996 **EXHIBIT 1 OF 6**

- PRE-LAW AREAS:** All lands from which coal was mined from start of mining to December 15, 1977
- INTERIM AREAS:** All lands from which coal was mined between December 16, 1977 to September 24, 1988 or lands which support initial program (Interim) mining and reclamation.
- PERMANENT PROGRAM AREAS:** All lands from which coal was mined after September 24, 1988 and lands that are approved for Future Permanent Program Mining and Reclamation.
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NOTE
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LEGEND

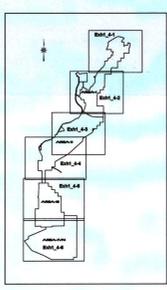
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	DIRT ROAD
	HAUL ROAD
	TRAIL
	BUILDING
	FENCE
	IRRIGATION LINE
	CULVERT
	DAM
	DRAINAGE
	RAILROAD
	TREES
	POWERLINE
	SPOT ELEVATION
	INDEX CONTOUR
	INTERMEDIATE CONTOUR
	HORIZ. & VERT. CONTROL
	LEASE CORNER
	PERMIT BOUNDARY

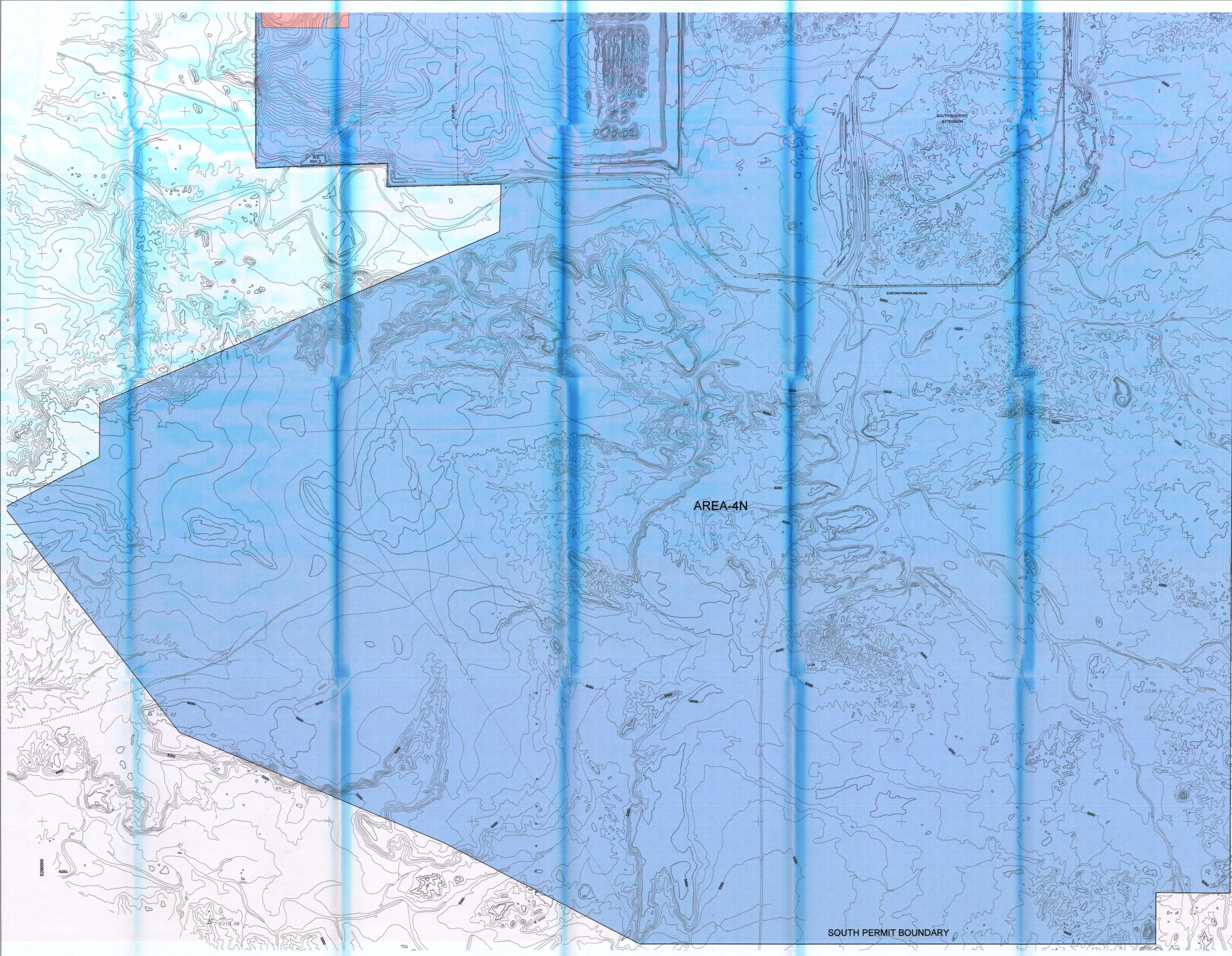
I, W. HENALLY, HEREBY CERTIFY THE AERIAL DATA SUPPLIED BY AEROPHOTOGRAPHIC, INC., DISPLAYED ON THIS DRAWING, EXH. L-4-APP, IS CORRECT AND COMPLETE TO THE BEST OF MY KNOWLEDGE. AEROPHOTOGRAPHIC USED CONTROL DATA SUBMITTED BY BHP BILLITON COAL COMPANY ENGINEERING DEPARTMENT.

NO.	DATE	BY	REVISION
1	11/12/88	W.H.	INITIAL DESIGN
2	11/15/88	W.H.	REVISED PER COMMENTS
3	11/18/88	W.H.	REVISED PER COMMENTS
4	11/22/88	W.H.	REVISED PER COMMENTS
5	11/25/88	W.H.	REVISED PER COMMENTS
6	11/28/88	W.H.	REVISED PER COMMENTS
7	12/01/88	W.H.	REVISED PER COMMENTS
8	12/04/88	W.H.	REVISED PER COMMENTS
9	12/07/88	W.H.	REVISED PER COMMENTS
10	12/10/88	W.H.	REVISED PER COMMENTS
11	12/13/88	W.H.	REVISED PER COMMENTS
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78	06/30/89	W.H.	REVISED PER COMMENTS
79	07/03/89	W.H.	REVISED PER COMMENTS
80	07/06/89	W.H.	REVISED PER COMMENTS
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83	07/15/89	W.H.	REVISED PER COMMENTS
84	07/18/89	W.H.	REVISED PER COMMENTS
85	07/21/89	W.H.	REVISED PER COMMENTS
86	07/24/89	W.H.	REVISED PER COMMENTS
87	07/27/89	W.H.	REVISED PER COMMENTS
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97	08/26/89	W.H.	REVISED PER COMMENTS
98	08/29/89	W.H.	REVISED PER COMMENTS
99	09/01/89	W.H.	REVISED PER COMMENTS
100	09/04/89	W.H.	REVISED PER COMMENTS

EXHIBIT 31-1
 BHP BILLITON NAVAJO COAL COMPANY
 AREA-II PERMIT AREAS
 PRE-LAW, INTERIM,
 PERMANENT PROGRAM

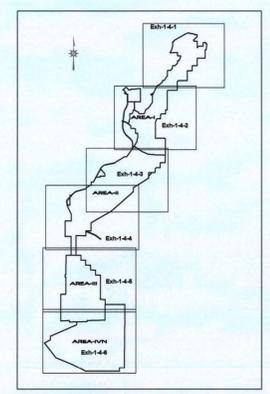
PREPARED BY: W.H. HENALLY
 DATE: MAY 12, 1996
 SCALE: 1" = 500'
 EXHIBIT 4 OF 6





- PRE-LAW AREAS:** All lands from which coal was mined from start of mining to December 16, 1977
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- LEGEND**
- PAVED ROAD
 - DIRT ROAD
 - HAUL ROAD
 - TRAIL
 - BUILDINGS
 - FENCE
 - IRRIGATION LINE
 - CULVERT
 - DAM
 - DRAINAGE
 - RAILROAD
 - POWERLINE
 - SPOT ELEVATION
 - INDEX CONTOUR
 - INTERMEDIATE CONTOUR
 - HORIZ. & VERT. CONTROL
 - LEASE CORNER
 - PERMIT BOUNDARY

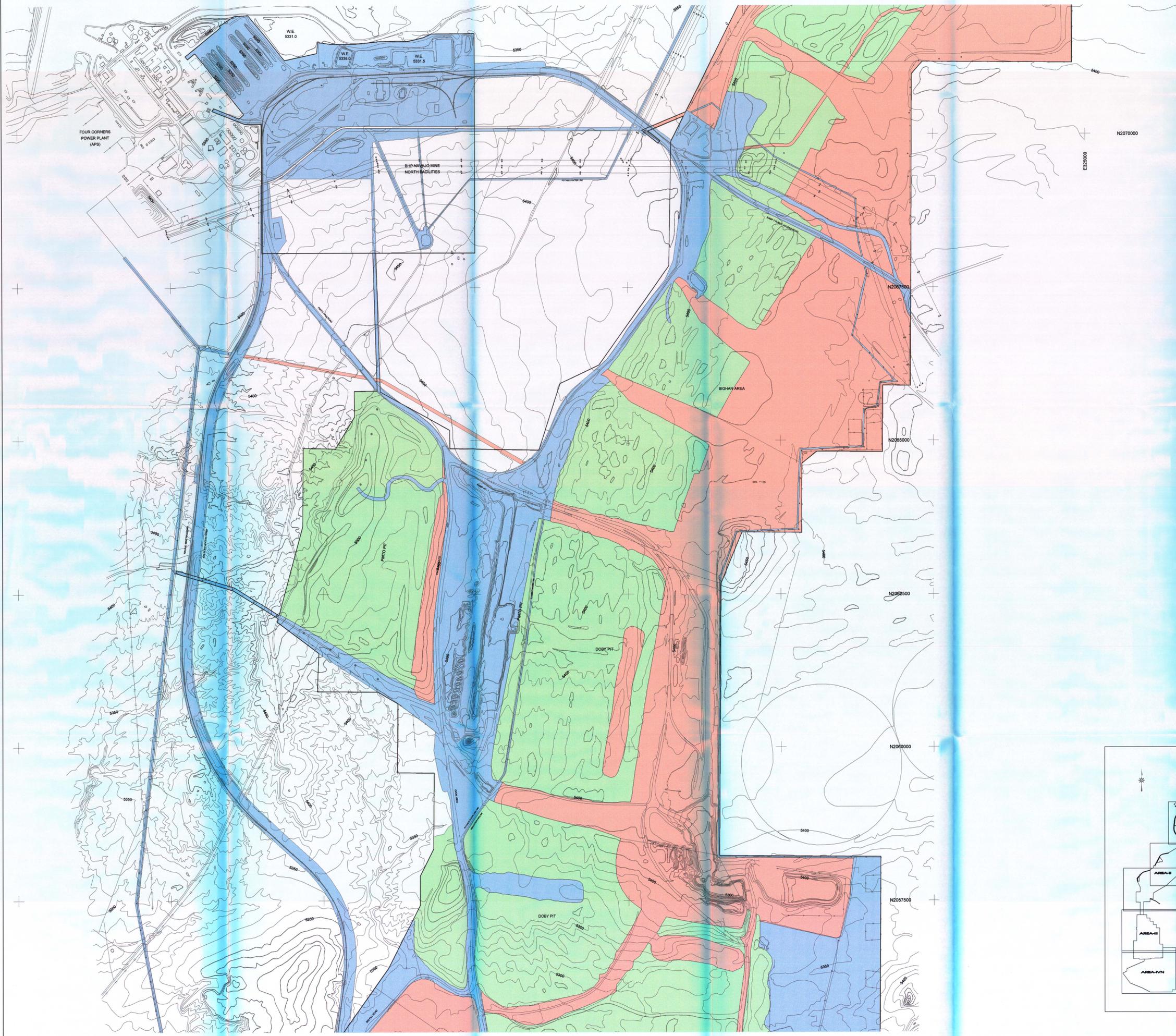


I, H. BENALLY, HEREBY CERTIFY THE AERIAL DATA SUPPLIED BY AERO-GRAFICS, INC., DISPLAYED ON THIS DRAWING, EXH. L.A-807, IS CORRECT AND COMPLETE TO THE BEST OF MY KNOWLEDGE. AERO-GRAFICS USED CONTROL DATA GENERATED BY BHP NAVAJO COAL COMPANY ENGINEERING DEPARTMENT.



NO.	DATE	BY	REVISION
1	4-18-96	PLJ	APPROVED SHEET AND SUBMITTED TO ONE FOR REVIEW
2	4-18-96	PLJ	APPROVED SHEET AND SUBMITTED TO ONE FOR REVIEW
3	4-18-96	PLJ	APPROVED SHEET AND SUBMITTED TO ONE FOR REVIEW
4	4-18-96	PLJ	APPROVED SHEET AND SUBMITTED TO ONE FOR REVIEW
5	4-18-96	PLJ	APPROVED SHEET AND SUBMITTED TO ONE FOR REVIEW
6	4-18-96	PLJ	APPROVED SHEET AND SUBMITTED TO ONE FOR REVIEW
7	4-18-96	PLJ	APPROVED SHEET AND SUBMITTED TO ONE FOR REVIEW
8	4-18-96	PLJ	APPROVED SHEET AND SUBMITTED TO ONE FOR REVIEW
9	4-18-96	PLJ	APPROVED SHEET AND SUBMITTED TO ONE FOR REVIEW
10	4-18-96	PLJ	APPROVED SHEET AND SUBMITTED TO ONE FOR REVIEW

EXHIBIT 31-1
BHP BILLITON NAVAJO COAL COMPANY
 P. O. BOX 1717 FRUITLAND, NEW MEXICO 87416
AREA 3 - 4 N PERMIT AREAS
PRE-LAW, INTERIM,
PERMANENT PROGRAM
 PREPARED BY: PLJ / PLJ DRAWN BY: PLJ SCALE: 1" = 500'
 APPROVED BY: DATE: MAY 12, 1996 EXHIBIT 6 OF 6



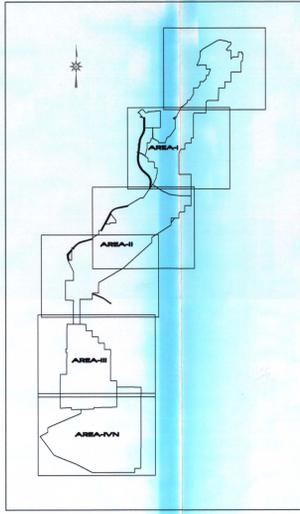
- PRE-LAW AREAS:** All lands from which coal was mined from start of mining to December 16, 1977
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LEGEND

	PAVED ROAD
	DIRT ROAD
	HAUL ROAD
	TRAIL
	BUILDING
	FENCE
	IRRIGATION LINE
	CULVERT
	DAM
	DRAINAGE
	RAILROAD
	TREES
	POWERLINE
	SPOT ELEVATION 5338.5
	SPOT ELEVATION 5422.45
	INDEX CONTOUR
	INTERMEDIATE CONTOUR
	HORIZ. & VERT. CONTROL
	LEASE CORNER
	PERMIT BOUNDARY

500 0 500 1000
CONTOUR INTERVAL: 10'



I, N. BENALLI, HEREBY CERTIFY THE AERIAL DATA SUPPLIED BY AERO-GRAPHICS, INC., DISPLAYED ON THIS DRAWING, EXH. 11-4-207F, IS CORRECT AND COMPLETE TO THE BEST OF MY KNOWLEDGE. AERO-GRAPHICS USED CONTROL DATA GENERATED BY BHP NAVAJO COAL COMPANY ENGINEERING DEPARTMENT.

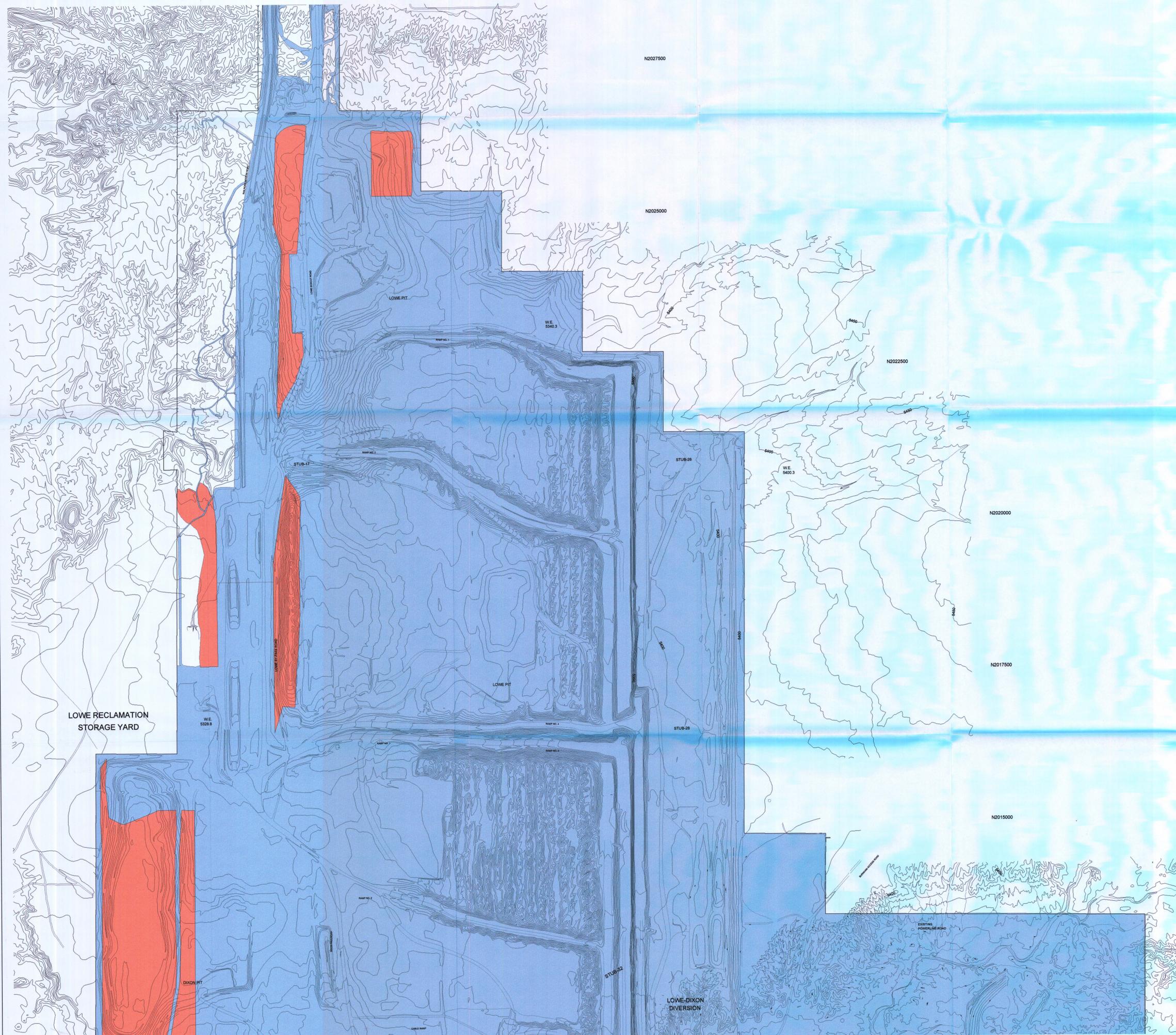


NO.	DATE	BY	DESCRIPTION	CHK.	ED.	PK.	PA.
1	11-21-89	AP	APPROVED ENERGY AND SUBMITTED TO DMR FOR REVIEW.				
2	11-21-89	AP	APPROVED PERMIT BOUNDARY OF THE PERMIT AREA BY SURVEYING.				
3	11-21-89	AP	APPROVED PERMIT BOUNDARY OF THE PERMIT AREA BY SURVEYING.				
4	11-21-89	AP	APPROVED PERMIT BOUNDARY OF THE PERMIT AREA BY SURVEYING.				
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7	11-21-89	AP	APPROVED PERMIT BOUNDARY OF THE PERMIT AREA BY SURVEYING.				
8	11-21-89	AP	APPROVED PERMIT BOUNDARY OF THE PERMIT AREA BY SURVEYING.				
9	11-21-89	AP	APPROVED PERMIT BOUNDARY OF THE PERMIT AREA BY SURVEYING.				
10	11-21-89	AP	APPROVED PERMIT BOUNDARY OF THE PERMIT AREA BY SURVEYING.				

EXHIBIT 31-1
BHP NAVAJO COAL COMPANY
 P. O. BOX 1717 FRUITLAND, NEW MEXICO 87416

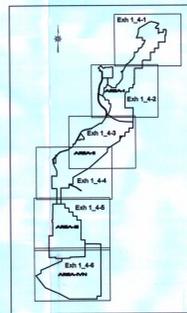
AREA-II PERMIT AREAS
PRE-LAW, INTERIM,
PERMANENT PROGRAM

PREPARED BY MC/PJ DRAWN BY P.J.F. SCALE 1" = 500'
 APPROVED BY DATE MAY 12, 1996 EXHIBIT 2 OF 6

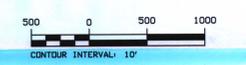


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- LEGEND**
- PAVED ROAD
 - DIRT ROAD
 - HAUL ROAD
 - TRAIL
 - BUILDING
 - FENCE
 - IRRIGATION LINE
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 - DAM
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 - POWERLINE
 - SPOT ELEVATION
 - INDEX CONTOUR
 - INTERMEDIATE CONTOUR
 - HORIZ. & VERT. CONTROL
 - LEASE CORNER
 - PERMIT BOUNDARY



I, M. SENALL, HEREBY CERTIFY THE AERIAL DATA SUPPLIED BY AERO-GRAPHICS, INC., DISPLAYED ON THIS DRAWING, EXH. 1.4-50P6, IS CORRECT AND COMPLETE TO THE BEST OF MY KNOWLEDGE. AERO-GRAPHICS USED CONTROL DATA GENERATED BY BHP NAVAJO COAL COMPANY ENGINEERING DEPARTMENT.



NO.	DATE	BY	REVISION DESCRIPTION	CHK.	APP.	DATE
1	10-24-89	PJP	ADDED RECORDS REFERENCE TO THE AREA AND MADE THE AREA PERMIT BOUNDARY.			
2	1-23-90	PJP	ADDED RECORDS REFERENCE TO THE AREA AND MADE THE AREA PERMIT BOUNDARY.			
3	1-23-90	PJP	ADDED RECORDS REFERENCE TO THE AREA AND MADE THE AREA PERMIT BOUNDARY.			
4	1-23-90	PJP	ADDED RECORDS REFERENCE TO THE AREA AND MADE THE AREA PERMIT BOUNDARY.			
5	1-23-90	PJP	ADDED RECORDS REFERENCE TO THE AREA AND MADE THE AREA PERMIT BOUNDARY.			
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8	1-23-90	PJP	ADDED RECORDS REFERENCE TO THE AREA AND MADE THE AREA PERMIT BOUNDARY.			
9	1-23-90	PJP	ADDED RECORDS REFERENCE TO THE AREA AND MADE THE AREA PERMIT BOUNDARY.			
10	1-23-90	PJP	ADDED RECORDS REFERENCE TO THE AREA AND MADE THE AREA PERMIT BOUNDARY.			

EXHIBIT 31-1
BHP BILLITON NAVAJO COAL COMPANY

P. O. BOX 1717 FRUITLAND, NEW MEXICO 87416

AREA 3 PERMIT AREAS
PRE-LAW, INTERIM,
PERMANENT PROGRAM

PREPARED BY MC/P/PJ DRAWN BY PJP SCALE 1" = 500'
 APPROVED BY DATE MAY 12, 1996 EXHIBIT 6 OF 6

