



Public Notice

**U S Army Corps
of Engineers**
Huntington District

In reply refer to Public Notice No.

200501187

Stream: Pine Creek

Issuance Date:

February 2, 2006

Closing Date:

March 4, 2006

Please address all comments and inquiries to:

U.S. Army Corps of Engineers, Huntington District

ATTN: CELRH-OR-F Public Notice No. (*reference above*)

502 Eighth Street

Huntington, West Virginia 25701-2070

Phone: (304) 399-5710

PUBLIC NOTICE: The purpose of this public notice is to inform you of a proposal for work in which you might be interested. It is also to solicit your comments and information to better enable us to make a reasonable decision on factors affecting the public interest. We hope you will participate in this process.

REGULATORY PROGRAM: Since its early history, the U.S. Army Corps of Engineers (Corps) has played an important role in the development of the nation's water resources. Originally, this involved construction of harbor fortifications and coastal defenses. Later duties included the improvement of waterways to provide avenues of commerce. An important part of our mission today is the protection of the nation's waterways through the administration of the Corps Regulatory Program.

SECTION 10: The Corps is directed by Congress under Section 10 of the Rivers and Harbors Act of 1899 (33 USC 403) to regulate all work or structures in or affecting the course, condition or capacity of navigable waters of the United States (U.S.). The intent of this law is to protect the navigable capacity of waters important to interstate commerce.

SECTION 404: The Corps is directed by Congress under Section 404 of the Clean Water Act (33 USC 1344) to regulate the discharge of dredged and fill material into all waters of the United States, including wetlands. The intent of the law is to protect the nation's waters from the indiscriminate discharge of material capable of causing pollution and to restore and maintain their chemical, physical and biological integrity.

TO WHOM IT MAY CONCERN: The following application has been submitted for a Department of the Army Permit under the provisions of Section 404 of the Clean Water Act. This notice serves as the Corps' request to the West Virginia Department of Environmental Protection to act on Section 401 Water Quality Certification for the following application.

APPLICANT:

Coal Mac, Inc. dba Phoenix Coal Mac Mining, Inc.
P.O. Box 436
Williamson, West Virginia 25661

LOCATION: The proposed project site is depicted on the Barnabus, West Virginia U.S. Geological Survey Quadrangles within the watersheds of Pine Creek and Left Fork of Pine Creek and Middle Fork of Elk Creek in the Lee District of Mingo County and Island District of Logan County, West Virginia as shown on the attached Drawing 1 titled "Location Map." The proposed project covers approximately 601.00 surface acres and would result in direct and indirect effects on unnamed tributaries of Pine Creek, unnamed tributaries of Left Fork of Pine Creek and an unnamed tributary of Middle Fork of Elk Creek. The unnamed tributaries of Left Fork of Pine Creek are all tributaries of Island Creek, which ultimately flows into the Guyandot River, a navigable (Section 10) water of the United States. The unnamed tributary of Middle Fork of Elk Creek is a tributary of Pigeon Creek, which ultimately flows into the Tug Fork, a navigable (Section 10) water of the United States.

DESCRIPTION OF THE PROPOSED WORK: The applicant proposes to place dredged and fill material into approximately 9,985 linear feet (1.41 acres) of waters of the U.S. in conjunction with the construction, operation and reclamation of the Phoenix No. 5 Surface Mine. The proposed operation would involve the construction of four valley fills (2 through 4 and 6) and four associated drainage control structures (2 through 4 and 6) and the extension of one existing valley fill (Valley Fill 1). The construction of the proposed valley fills and extension of an existing valley fill would result in the permanent discharge of dredged and fill material into 1,632 linear feet (0.14 acre) of ephemeral streams and 6,191 linear feet (0.95 acre) of intermittent streams for a total permanent stream impact of 7,823 linear feet (1.09 acres). Valley Fills 1, 2, 3, 4 and 6 would drain contributing watersheds of ranging from 72.80 to 178.60 acres. Adverse effects on the aquatic environment associated with this proposed activity would be permanent in nature. The construction of the proposed drainage control structures (ponds) would result in the temporary discharge of dredged and fill material into 2,162 linear feet (0.32 acre) of intermittent streams. Pond 1 is an existing drainage control structures and would be modified as a result of the proposed operation resulting in 663 linear feet (0.1 acre) of intermittent stream in the 2nd left unnamed tributary of Pine Creek. Adverse effects on the aquatic environment associated with this proposed activity would be temporary in nature. The individual impacts to waters of the U.S. as a result of the proposed activities are attached to this public notice under Attachments 21 and 22.

The proposed activity would result in disturbances to 601.00 acres of surface area, including 425.50 acres of mineral removal, to facilitate the recovery of nearly 6.9 million tons of coal reserves from the Kittanning, Upper Five-Block, Five-Block, Lower Five-Block, Upper Stockton, Lower Stockton, Stockton B, Coalburg, and associated rider seams. The proposed mineral removal operations would be conducted using the mountaintop and contour surface mining methods and would generate approximately 79.5 million cubic yards of overburden material. Nearly 55.8 million tons of this material would be placed back upon the highwalls created by the mining process or on an adjacent surface mine permit area (referred to as the Holden 22 Surface Mine). The remaining excess overburden material, in the amount of nearly 23.7 million cubic yards, would be placed in the proposed valley fills. The applicant's Surface Mine Application (S-5027-01) was approved by the West Virginia Department of Environmental Protection pursuant to the Surface Mining Control and Reclamation Act of 1977 on January 21, 2005. The proposed project would be accomplished over a period of 4.5 years. Details regarding the phases can be found in Section N of the applicant's Surface Mining Application on file at the WVDEP. According to the applicant, the purpose of the project is to recover bituminous coal reserves from the Kittanning, Upper Five-Block, Five-Block, Lower Five-Block, Upper Stockton, Lower Stockton, Stockton B, Coalburg, and associated rider seams. Plans for the proposed Phoenix No. 5 Surface Mine are attached to this public notice.

ALTERNATIVE ANALYSIS: This project is not considered to be water dependent; therefore, the applicant is required to show that other less damaging practicable alternatives are not available that would achieve the applicant's goal. No permit will be issued until our review of the alternative analysis clearly shows that upland alternatives are not available to achieve the applicant's goal.

MITIGATION PLAN: The applicant has not submitted a compensatory mitigation plan (CMP) to compensate for the proposed permanent and temporary impacts to waters of the U.S. regulated by the Department of the Army, Corps of Engineers.

WATER QUALITY CERTIFICATION: A Section 401 Water Quality Certification is required for this project. It is the applicant's responsibility to obtain certification from the West Virginia Department of Environmental Protection.

HISTORIC AND CULTURAL RESOURCES: The National Register of Historic Places (NRHP) has been consulted and it has been determined there are no properties currently listed on the register that are in the area affected by the project. A copy of this public notice will be sent to the SHPO for their review. Additional comments concerning archeological sensitivity of a project area should be based upon collected data.

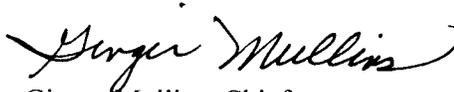
ENDANGERED/THREATENED SPECIES REVIEW: Two federally listed endangered species, the Indiana bat (*Myotis sodalis*) and Virginia big-eared bat (*Corynorhinus townsendii virginianus*) may occur within the proposed project area. A mist net survey was completed by Environmental Solutions & Innovations, Inc. in August 2003. The survey efforts did not capture any federally listed endangered bats. Additionally, the proposed project area was surveyed for the presence of old, open abandoned mine portals that could provide year-around habitat for the Virginia big eared bat or hibernaculum for the Indiana bat. No such features were identified within the project area. The mist net survey associated with this proposed project remains valid until May 15, 2006. Therefore, the applicant will be required to conduct a new bat mist net survey between May 15 and August 15 using the mist net protocol outlined in the draft Indiana bat Recovery Plan or restrict timber removal operations between November 15 and March 31. If the latter option is chosen, an analysis of the post-project Indiana bat summer habitat must be performed within a two-mile radius of the center point of the project area. If the U.S. Fish and Wildlife Service (USFWS) determines the extent of disturbance is not significant to affect the Indiana bat, the project may proceed with seasonal restrictions. Conversely, if the USFWS determines the extent of disturbance is significant and would likely adversely affect the Indiana bat, a mist net survey can be conducted to determine if the Indiana bats are present. This public notice serves as a request to the USFWS for any additional information they may have on whether any listed or proposed to be listed endangered or threatened species may be present in the area which would be affected by the activity, pursuant to Section 7(c) of the Endangered Species Act of 1972 (as amended).

PUBLIC INTEREST REVIEW AND COMMENT: Any person who has an interest that may be adversely affected by the issuance of a permit may request a public hearing. The request must be submitted in writing to the District Engineer on or before the expiration date of this notice and must clearly set forth the interest which may be adversely affected and the manner in which the interests may be adversely affected by the activity. This application will be reviewed in accordance with 33 CFR 320-331, the Regulatory Program of the U. S. Army Corps of Engineers (USACE), and other pertinent laws, regulations, and executive orders. Our evaluation will also follow the guidelines published by the U. S. Environmental Protection Agency pursuant to Section 404(b)(1) of the CWA.

Interested parties are invited to state any objections they may have to the proposed work. The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit that reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors that may be relevant to the proposal will be considered including the cumulative effects thereof; of those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership and, in general, the needs and welfare of the people. Written statements on these factors received in this office on or before the expiration date of this public notice will become a part of the record and will be considered in the final determination. A permit will be granted unless its issuance is found to be contrary to the public interest.

SOLICITATION OF COMMENTS: The Corps of Engineers is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. For accuracy and completeness of the administrative record, all data in support of or in opposition to the proposed work should be submitted in writing setting forth sufficient detail to furnish a clear understanding of the reasons for support or opposition. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

CLOSE OF COMMENT PERIOD: All comments pertaining to this Public Notice must reach this office on or before the close of the comment period listed on page one of this Public Notice. If no comments are received by that date, it will be considered that there are no objections. Comments and requests for additional information should be submitted to Mrs. Teresa Spagna, Project Manager, South Regulatory Section, CELRH-OR-FS, U. S. Army Corps of Engineers Huntington District, 502 Eighth Street, Huntington, West Virginia 25701-2070. Please note names and addresses of those who submit comments in response to this public notice become part of our administrative record and, as such, are available to the public under provisions of the Freedom of Information Act. Thank you for your interest in our nation's water resources. If you have any questions concerning this public notice, please call Mrs. Teresa Spagna of the South Regulatory Section at 304-399-5710.


Ginger Mullins, Chief
Regulatory Branch

(W)

Attachment No. 21

The types of material being discharged are:

Durable, non-toxic overburden material from mining operations permanently placed in proposed valley fills and temporarily placed in conjunction with construction of associated sediment control structures.

Permanent Fill Material (In-stream)

Structure ID	Stream Name	Perennial/Intermittent (cyds.)	Ephemeral (cyds.)	Total (cyds.)
Valley Fill No. 1*	2nd Left Unnamed Tributary of Pine Creek upstream of the Left Fork	344.93	--	344.93
	1st Left Unnamed Tributary of 2nd Left Unnamed Tributary of Pine Creek upstream of the Left Fork	--	19.92	19.92
Total – Valley Fill No. 1*		344.93	19.92	364.85
Valley Fill No. 2	1st Left Unnamed Tributary of Pine Creek upstream of the Left Fork	331.41	3.61	335.02
Total – Valley Fill No. 2		331.41	3.61	335.02
Valley Fill No. 3	4th Right Unnamed Tributary of the Left Fork of Pine Creek	250.75	31.88	282.63
Total – Valley Fill No. 3		250.75	31.88	282.63
Valley Fill No. 4	6th Right Unnamed Tributary of the Left Fork of Pine Creek	75.32	0.98	76.30
	1st Right Unnamed Tributary of the 6th Right Unnamed Tributary of the Left Fork of Pine Creek	--	19.23	19.23
	2nd Right Unnamed Tributary of the 6th Right Unnamed Tributary of the Left Fork of Pine Creek	--	1.05	1.05
Total – Valley Fill No. 4		75.32	21.26	96.58
Valley Fill No. 6	4th Left Unnamed Tributary of the Middle Fork of Elk Creek	179.80	32.30	212.10
Total – Valley Fill No. 6		179.80	32.30	212.10
Total – Permanent Fill Material		1182.21	108.97	1291.18

*Valley Fill No. 1 is an existing structure; the fill material listed above for Valley Fill No. 1 is that which would be placed to extend the fill to the toe location proposed under this project.

Attachment No. 21 (continued)

Temporary Fill Material (In-stream)

Structure ID	Stream Name	Perennial/Intermittent (cyds.)	Ephemeral (cyds.)	Total (cyds.)
Pond No. 2	1st Left Unnamed Tributary of Pine Creek upstream of the Left Fork	123.73	--	123.73
Total – Pond No. 2		123.73	--	123.73
Pond No. 3	4th Right Unnamed Tributary of the Left Fork of Pine Creek	71.95	--	71.95
Total – Pond No. 3		71.95	--	71.95
Pond No. 4	6th Right Unnamed Tributary of the Left Fork of Pine Creek	27.68	--	27.68
Total – Pond No. 4		27.68	--	27.68
Pond No. 6	4th Left Unnamed Tributary of the Middle Fork of Elk Creek	49.28	--	49.28
Total – Pond No. 6		49.25	--	49.28
Total – Temporary Fill Material		291.19	--	291.19

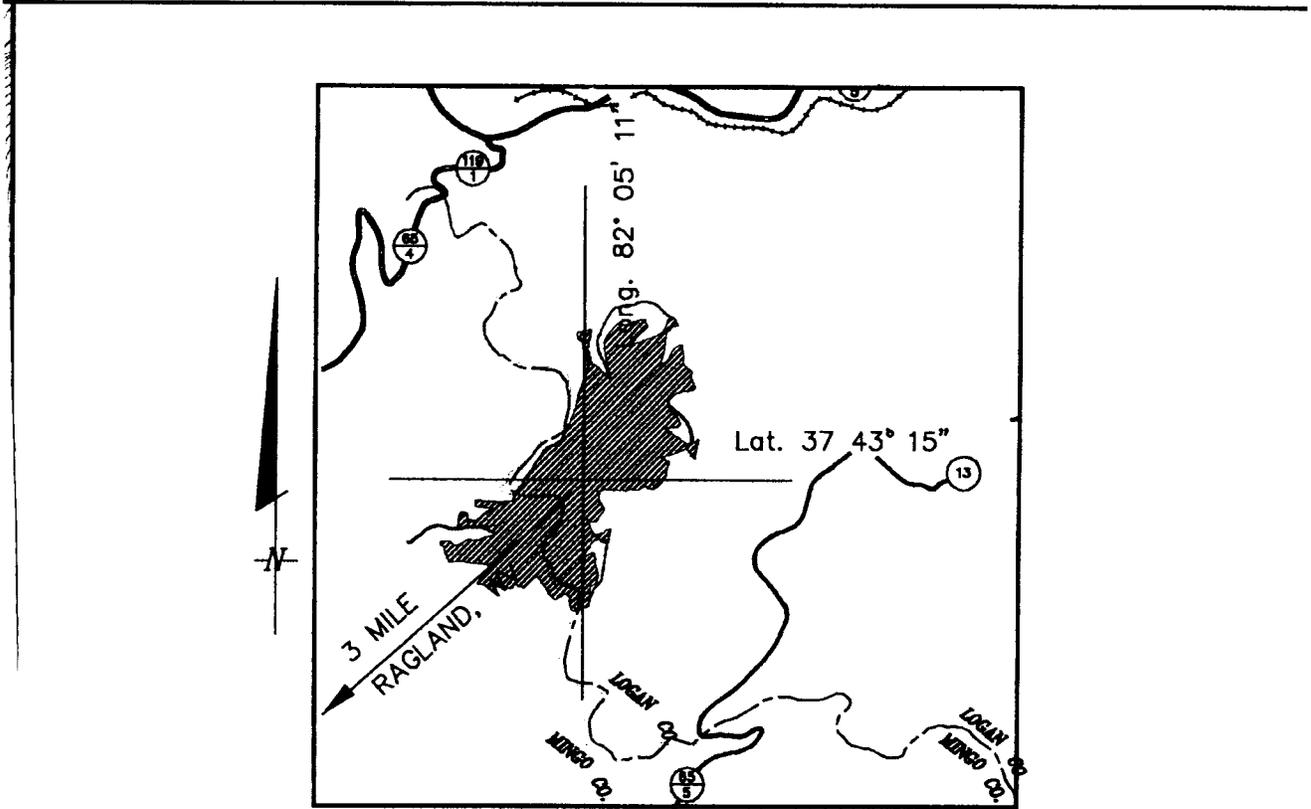
*Pond No. 1 is an existing structure covering 0.32 acres.

Attachment No. 22
Coal-Mac, Inc.
Phoenix No. 5 Surface Mine
SMCRA Permit Number SMA S-5027-01

MINING ACTIVITY	STREAM LOCATION	PERMANENT STREAM IMPACTS		TEMPORARY STREAM IMPACTS		AFFECTED DRAINAGE AREA (ACRES)
		Linear Feet	Acres	Linear Feet	Acres	
Valley Fill No. 1	2nd Left Unnamed Tributary of Pine Creek upstream of the Left Fork	1,791	0.2865	--	--	178.60
Valley Fill No. 1	1st Left Unnamed Tributary of 2nd Left Unnamed Tributary of Pine Creek upstream of the Left Fork	300	0.0195	--	--	178.60
Valley Fill No. 2	1st Left Unnamed Tributary of Pine Creek upstream of the Left Fork	1,080 100	0.2423 0.0103	-- --	-- --	74.20
Valley Fill No. 3	4th Right Unnamed Tributary of the Left Fork of Pine Creek	912 340	0.1494 0.0419	-- --	-- --	72.80
Valley Fill No. 4	6th Right Unnamed Tributary of the Left Fork of Pine Creek	1,299 92	0.1323 0.0029	-- --	-- --	72.60
Valley Fill No. 4	1st Right Unnamed Tributary of the 6th Right Unnamed Tributary of the Left Fork of Pine Creek	300	0.0224	--	--	72.60
Valley Fill No. 4	2nd Right Unnamed Tributary of the 6th Right Unnamed Tributary of the Left Fork of Pine Creek	100	0.0046	--	--	72.60

MINING ACTIVITY	STREAM LOCATION	PERMANENT STREAM IMPACTS			TEMPORARY STREAM IMPACTS			AFFECTED DRAINAGE AREA (ACRES)
		Linear Feet	Acres	STREAM CLASSIFICATION (E, I, OR P) OR OPEN WATERS	Linear Feet	Acres	STREAM CLASSIFICATION (E, I, OR P) OR OPEN WATERS	
Valley Fill No. 6	4th Left Unnamed Tributary of the Middle Fork of Elk Creek	1,109	0.1443	I	--	--	--	83.80
		400	0.0373	E	--	--	--	
Area associated with Pond No. 1 Construction/Modification	2nd Left Unnamed Tributary of Pine Creek upstream of the Left Fork	--	--	--	663	0.1046	I	204.60
		--	--	--	430	0.0859	I	
Area associated with Pond No. 2 Construction	1st Left Unnamed Tributary of Pine Creek upstream of the Left Fork	--	--	--	271	0.0468	I	75.50
		--	--	--	335	0.0310	I	
Area associated with Pond No. 3 Construction	4th Right Unnamed Tributary of the Left Fork of Pine Creek	--	--	--	463	0.0528	I	99.50
		--	--	--	6,191	0.9548	I	
Area associated with Pond No. 4 Construction	6th Right Unnamed Tributary of the Left Fork of Pine Creek	--	--	--	1,632	0.1389	E	
		--	--	--	7,823	1.0937		
Total - By Stream Classification								
Total - Stream Impacts								

E-Ephemeral
I-Intermittent
P-Perennial



NOTE:

State Plane Coordinate System is NAD 83.

LOCATION MAP

Mingo & Logan Counties General Highway Map
Barnabus Quadrangle

Receiving Stream: Left Fork of Pine Creek and Pine Creek
of Island Creek of the Guyandotte River:

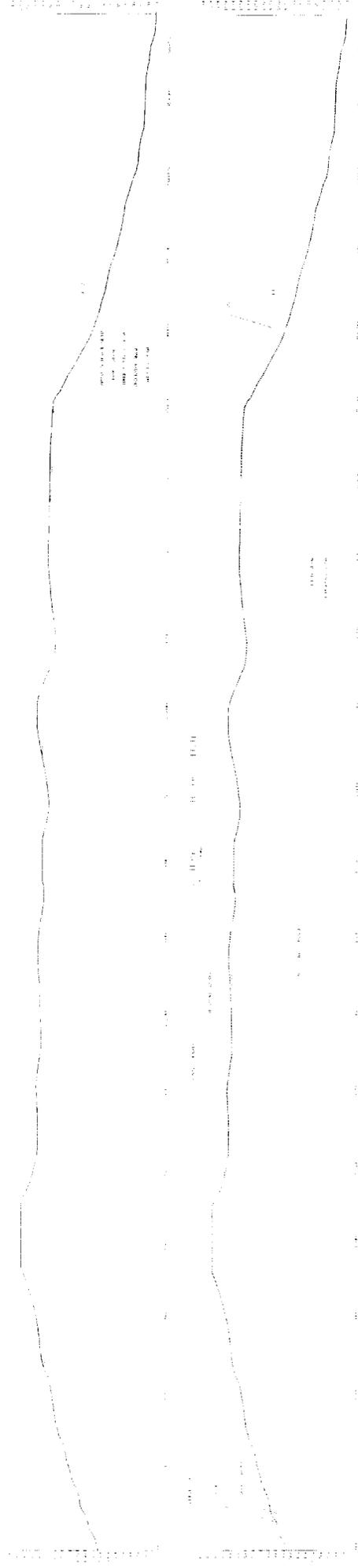
Unnamed tributary of Middle Fork of Elk Creek
of Pigeon Creek of Tug Fork

Scale: 1" = 1 Mile



N 27
NOTE:
State Plane Coordinate System is NAD 83.

LOCATION MAP
 1/2" = 1" SCALE
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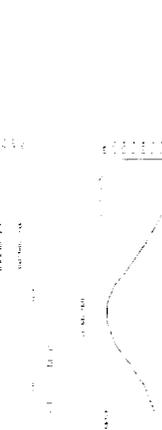
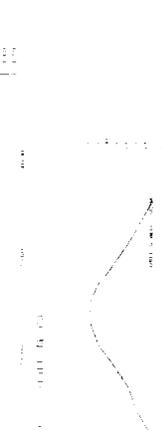
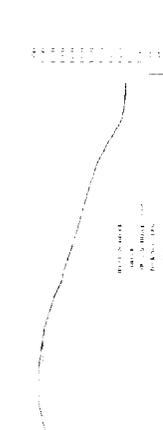


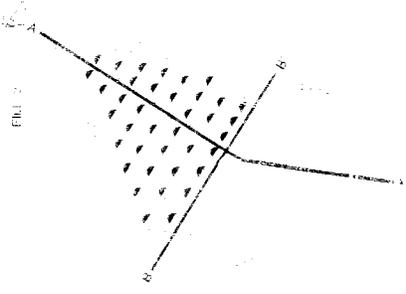
AMERICAN SURVEYING
 FINAL TO SURFACE
 CONCRETE
 6 BLOCK
 LOWER 10 B BLOCK
 SURVEYED
 CONCRETE
 6 BLOCK
 SURVEYED

PROJECT NO. 100-100-100 SHEET NO. 100-100-100 DATE 10/10/10	DRAWN BY CHECKED BY APPROVED BY	TITLE PROJECT NO. 100-100-100 SHEET NO. 100-100-100 DATE 10/10/10
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CM **COAL MAC, INC.**
 1000 W. HURON ST. ANN ARBOR, MI 48106
 PHONE: 734.769.1234 FAX: 734.769.1235
 WWW.COALMAC.COM

MICHIGAN NO. 5 SURFACE MINE
 PERMIT NO. S5002-01
 1000 W. HURON ST. ANN ARBOR, MI 48106





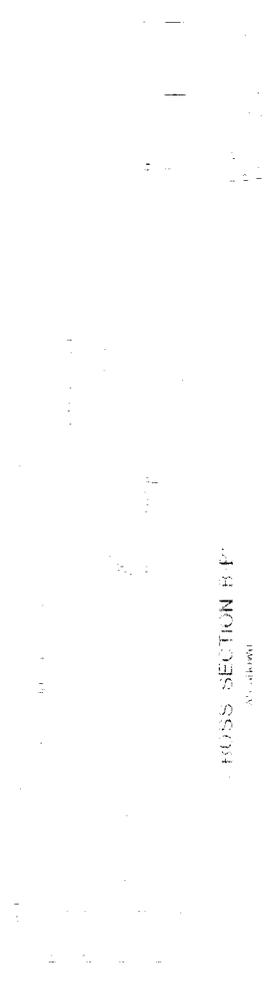
PLAN
SCALE: 1" = 100'

STABILITY SECTION A-A'
AS SHOWN



PROFILE A A'
AS SHOWN

CROSS SECTION B-B'
AS SHOWN



1. The purpose of this report is to provide a detailed description of the geotechnical conditions and stability analysis of the mine. The analysis was performed using the method of slices, which is a common technique for evaluating the stability of slopes. The results of the analysis indicate that the mine is stable under the current conditions. However, it is recommended that the mine be monitored closely for any signs of instability.

LEGEND

[Symbol]	COALBURN
[Symbol]	MINERAL
[Symbol]	ORIGINAL GROUND
[Symbol]	ROADWAY
[Symbol]	FINAL SURFACE
[Symbol]	TAPE RE PLANE
[Symbol]	BACKSLAVE
[Symbol]	PILE CAP
[Symbol]	PURPLE CENTER

<p>DATE: 10/15/01 DRAWN BY: [Name] CHECKED BY: [Name] SCALE: 1" = 100'</p>	<p>PROJECT: [Name] SHEET NO. 1 OF 1</p>
---	--

GMI **COALBURN, INC.**
an American Coal Mining Inc.

PHOENIX NO. 5 SURFACE MINE
 PERMIT NO. S-5027.01
 APDES NO. W-100-0065
 FILL NO. 2

80114

1. This plan is a part of the contract between the Employer and the Union. It is subject to the terms and conditions of the contract.

2. The Employer reserves the right to modify or terminate this plan at any time without notice.

3. The Union agrees to accept the terms and conditions of this plan.

4. This plan is intended to provide a fair and equitable benefit to the employees of the Employer.

5. The Employer and the Union agree to cooperate in the administration of this plan.

6. The Employer and the Union agree to resolve any disputes arising out of this plan through arbitration.

7. This plan shall be governed by the laws of the State of Michigan.

8. The Employer and the Union agree to execute any documents necessary to carry out the terms of this plan.

9. The Employer and the Union agree to keep this plan confidential.

10. The Employer and the Union agree to execute any documents necessary to carry out the terms of this plan.

11. The Employer and the Union agree to execute any documents necessary to carry out the terms of this plan.

12. The Employer and the Union agree to execute any documents necessary to carry out the terms of this plan.

13. The Employer and the Union agree to execute any documents necessary to carry out the terms of this plan.

14. The Employer and the Union agree to execute any documents necessary to carry out the terms of this plan.

15. The Employer and the Union agree to execute any documents necessary to carry out the terms of this plan.

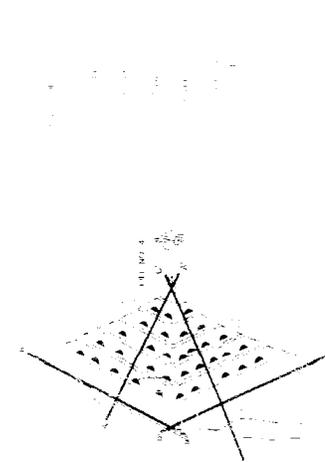
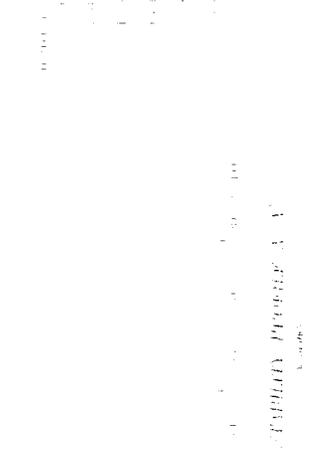
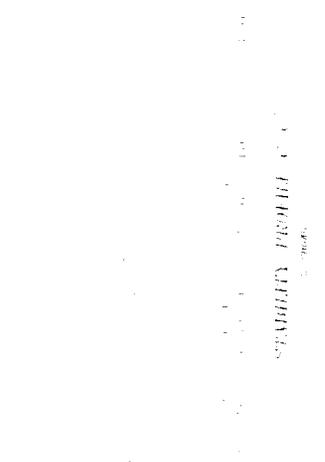
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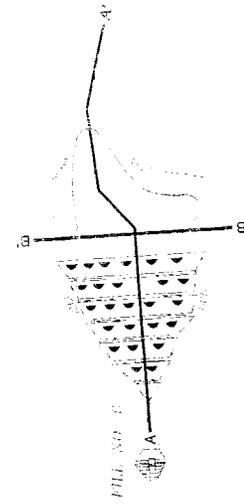
CONTOUR
 MINE
 GEOLOGICAL
 BOUNDARY
 DEFORMATION
 STRIKE SLIP
 FAULT
 UNCONFORMITY
 RAINSHADOW
 EARTHQUAKE
 FURTHER CORRECTION

GM COV MAC, INC.
 10000 WOODLAND AVENUE, WYOMING, MI 48182
 PHILIP J. NOBLE, PRESIDENT
 PHILIP J. NOBLE, VICE PRESIDENT
 PHILIP J. NOBLE, SECRETARY
 PHILIP J. NOBLE, TREASURER
 PHILIP J. NOBLE, DIRECTOR

PHILIP J. NOBLE, PRESIDENT
 PHILIP J. NOBLE, VICE PRESIDENT
 PHILIP J. NOBLE, SECRETARY
 PHILIP J. NOBLE, TREASURER
 PHILIP J. NOBLE, DIRECTOR

PHILIP J. NOBLE, PRESIDENT
 PHILIP J. NOBLE, VICE PRESIDENT
 PHILIP J. NOBLE, SECRETARY
 PHILIP J. NOBLE, TREASURER
 PHILIP J. NOBLE, DIRECTOR





PLAN
SCALE: 1" = 100'

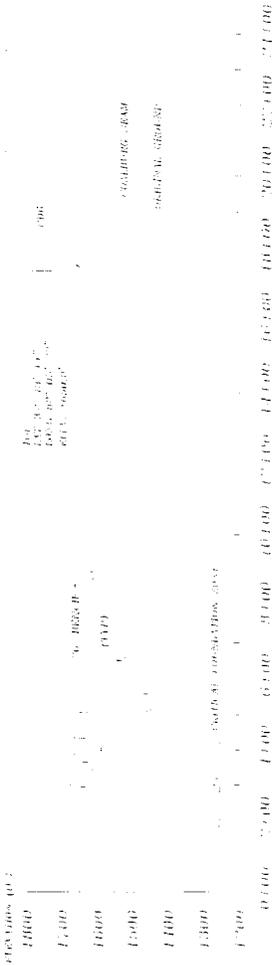
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0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000 11000 12000 13000 14000 15000 16000 17000 18000 19000 20000 21000 22000 23000 24000

STABILITY PROFILE A-A

AS SHOWN

HAYSTACK MATERIAL



For
Volume
of
Material
Excavated
See
Table
on
Page
Two

11.976

Volume Report - PILL # 104 OF 104
Comparing Grid File: C:\scadsoft\DATA\PHOENIX 5100 OF PILL and
and Grid File: C:\scadsoft\DATA\PHOENIX 5100 OF PILL and
Grid corner locations: 1619107.67, 2619925.30 to 1659507.67, 2709925.30
Grid resolution: 104, Y: 99 Grid cell size: 100.00, X: 100.00
Area in Grid: 1659507.67, 2709925.30 to 1619107.67, 2619925.30
Total inclusion area: 723,047.7 S.E. 16.62 Acres
Cut to fill volume: 0.00
Average Cut Depth: 3.59 Average Fill Depth: 160.10
Cut (CY): Area (acres): 165574.47
Fill (CY): Area (acres): 169.90 C.Y.
Fill volume: 1,297,390.63 C.Y., 2,751,492.54 C.Y.

VOLUME 2,751,492 CUH YARDS
PERCENTAGE AREA FILL TO BE 100.66 ACRES
LENGTH (X-DIM) 740.73 FEET
LENGTH (Y-DIM) 1630.47 FEET
TOP OF FILL ELEV: 37' 43" 11" LONG: 82' 05" 41" ELEV: 1300.00 FT
TOP OF FILL ELEV: 37' 43" 11" LONG: 82' 05" 22" ELEV: 1650.00 FT

- LEGEND
- COALBANK
 - MATERIAL
 - ORIGINAL GROUND
 - BURROCK
 - FINAL SURFACE
 - FAILURE PLAN
 - BACKSTACK
 - BRAM
 - PURPLE CURSOR

NO.	DESCRIPTION	AREA (SQ. FT.)	VOLUME (CU. YD.)
1	COALBANK	165,574.47	1,297,390.63
2	MATERIAL	169.90	1,297,390.63
3	ORIGINAL GROUND		
4	BURROCK		
5	FINAL SURFACE		
6	FAILURE PLAN		
7	BACKSTACK		
8	BRAM		
9	PURPLE CURSOR		

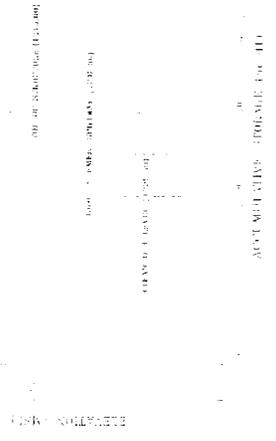


GM **COAL-MAC, INC.**
400 PHOENIX COAL MINE ROAD, INC.
PHOENIX, ARIZONA 85007-0101
PHILM No. 8-5075-01
APPENDIX No. 8-110-0652
PILL No. 6

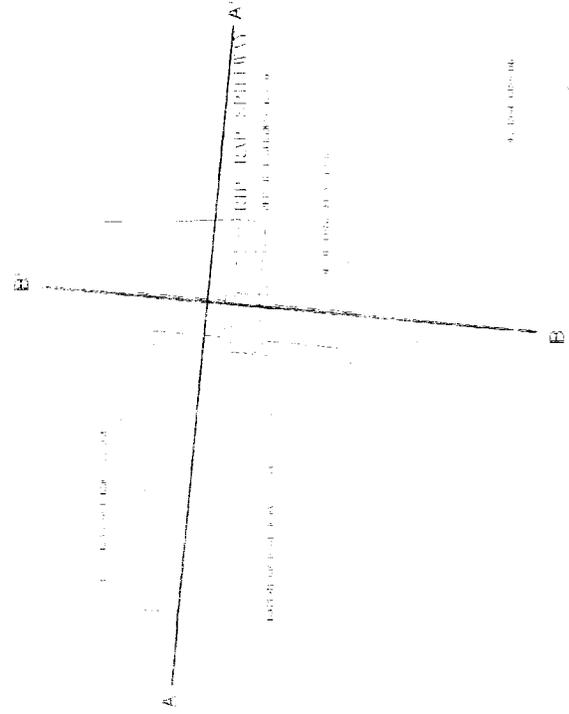
PHOENIX NO. 5 SURFACE MINE
PERMIT NO. 8-5075-01
APPENDIX NO. 8-110-0652
PILL No. 6

PHOENIX COAL MINE
400 PHOENIX COAL MINE ROAD, INC.
PHOENIX, ARIZONA 85007-0101
PHILM No. 8-5075-01
APPENDIX No. 8-110-0652
PILL No. 6

SEWAGE STORAGE CURVE



100% SOLIDWASTE



STORAGE VOLUME COMPUTATIONS

Time (hr)	Flow Rate (MGD)	Accumulated Storage (MG)
0	0.00	0.00
1	0.10	0.10
2	0.20	0.40
3	0.30	0.90
4	0.40	1.60
5	0.50	2.50
6	0.60	3.60
7	0.70	4.90
8	0.80	6.40
9	0.90	8.10
10	1.00	10.00
11	0.90	11.10
12	0.80	12.40
13	0.70	13.80
14	0.60	15.30
15	0.50	16.80
16	0.40	18.30
17	0.30	19.70
18	0.20	21.00
19	0.10	22.10
20	0.00	23.00

STORAGE STORAGE REQUIRED (MG)
STORAGE STORAGE REQUIRED (MG)

CROSS SECTION B-B'

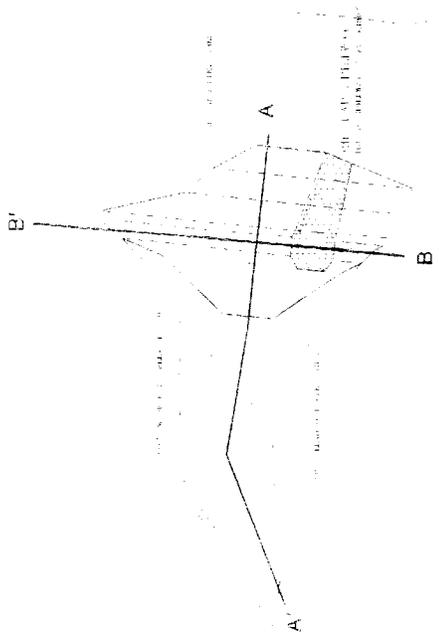
PLAN
Scale: 1" = 100'



CROSS SECTION B-B'

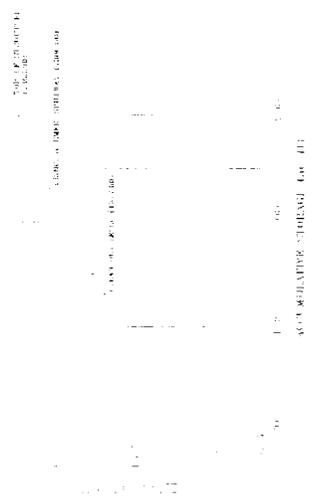
GM COAL, INC.
1000 PINEBROOK DRIVE, WASHINGTON, PA 15387

PHOENIX NO. 5 SURFACE MINE
MINE NO. WA00258001
POND NO. 5



PLAN VIEW
SCALE 1" = 10'

STORAGE CURVE



STORAGE VOLUME COMPUTATIONS

TIME (HRS)	RELATIVE STREAM FLOW	STORAGE VOLUME (CFS)
0	1.0	0
1	0.9	10,000
2	0.8	20,000
3	0.7	30,000
4	0.6	40,000
5	0.5	50,000
6	0.4	60,000
7	0.3	70,000
8	0.2	80,000
9	0.1	90,000
10	0.0	100,000

STORAGE PROBLEM FOR A-D

TIME (HRS)	RELATIVE STREAM FLOW	STORAGE VOLUME (CFS)
0	1.0	0
1	0.9	10,000
2	0.8	20,000
3	0.7	30,000
4	0.6	40,000
5	0.5	50,000
6	0.4	60,000
7	0.3	70,000
8	0.2	80,000
9	0.1	90,000
10	0.0	100,000

APPROVED FOR CONSTRUCTION BY THE STATE ENGINEER
 STATE OF CALIFORNIA
 DIVISION OF WATER RESOURCES
 SACRAMENTO OFFICE
 DATE: 10/15/66
 PROJECT NO. 100-100000-0000
 SHEET NO. 100-100000-0000-001

COM-MAC, INC.
 CIVIL ENGINEERS AND ARCHITECTS
 1100 MARKET STREET, SUITE 1000
 SAN FRANCISCO, CALIFORNIA 94102
 PHONE NO. 415-398-1100

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PROFILE VIEW A-A
SCALE 1" = 10'



CROSS SECTION B-B
SCALE 1" = 10'

15016

STAGE STORAGE CURVE

DATE: 11/15/50



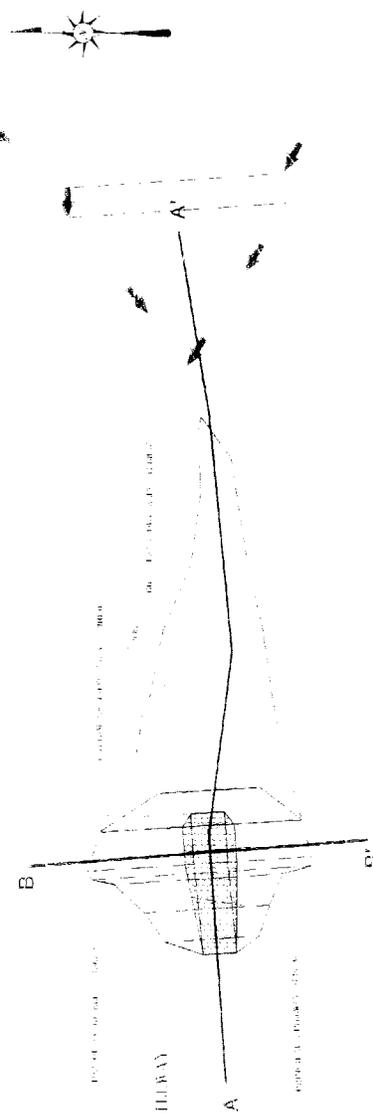
STAGE STORAGE CURVE

STAGE (ft) vs. STORAGE (cu ft)

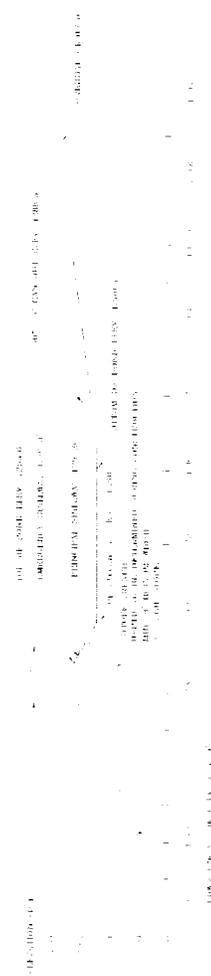
STAGE (ft)	STORAGE (cu ft)
10.0	100,000
11.0	150,000
12.0	250,000
13.0	400,000
14.0	600,000
15.0	900,000
16.0	1,300,000
17.0	1,800,000
18.0	2,400,000
19.0	3,100,000
20.0	3,900,000
21.0	4,800,000
22.0	5,800,000
23.0	6,900,000
24.0	8,100,000
25.0	9,400,000
26.0	10,800,000
27.0	12,300,000
28.0	13,900,000
29.0	15,600,000
30.0	17,400,000
31.0	19,300,000
32.0	21,300,000
33.0	23,400,000
34.0	25,600,000
35.0	27,900,000
36.0	30,300,000
37.0	32,800,000
38.0	35,400,000
39.0	38,100,000
40.0	40,900,000
41.0	43,800,000
42.0	46,800,000
43.0	50,000,000
44.0	53,300,000
45.0	56,800,000
46.0	60,400,000
47.0	64,200,000
48.0	68,100,000
49.0	72,200,000
50.0	76,400,000
51.0	80,800,000
52.0	85,300,000
53.0	90,000,000
54.0	94,800,000
55.0	100,000,000

DATE: 11/15/50

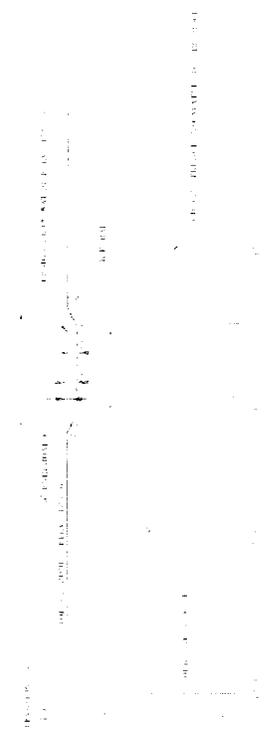
STAGE (ft) vs. STORAGE (cu ft)



PLAN VIEW
SCALE: 1" = 100'



PROFILE VIEW A A'
SCALE: 1" = 10'



CROSS SECTION B B'
SCALE: 1" = 10'

CONTRACT NO. 11-11-50

DATE: 11/15/50

PROJECT: DAM AND SPILLWAY

CONTRACTOR: CON. MAC. INC.

PROPERTY NO. 11-11-50-11-11-50

REMARKS: NO. 5 5027 01

NO. 11-11-50-11-11-50

FOUND NO. 6

CON. MAC. INC.

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