

- NOTES:**
- 1) THERE ARE NO SURFACE WATER SUPPLY INTAKES WITHIN FIVE MILES OF THE PERMIT AREA.
 - 2) APPROXIMATE ELEV. OF WATER TABLE IN THIS AREA IS 800'.
 - 3) ARCHAEOLOGICAL SITE 46L020 SHOWN IS THE ONLY SITE IDENTIFIED AS ELIGIBLE FOR LISTING IN THE NATIONAL REGISTER OF HISTORICAL PLACES.
 - 4) THIS PERMIT DOES NOT LIE WITHIN OR ADJACENT TO A NATIONAL PARK SYSTEM, NATIONAL FOREST, NATIONAL WILDLIFE REFUGE SYSTEM, NATIONAL SYSTEM OF TRAILS, NATIONAL WILDERNESS PRESERVATION SYSTEM, NATIONAL WILD AND SCENIC RIVER SYSTEM, NATIONAL RECREATION AREA OR ANY AREA UNDER STUDY FOR INCLUSION IN THESE SYSTEMS.
 - 5) PRE-MINING LAND USE: FORESTLAND
POST-MINING LAND USE: FORESTLAND
 - 6) THERE ARE NO KNOWN SEEPS OR SPRINGS WITHIN THE PERMIT AREA.
THERE ARE NO KNOWN HABITATS OF LISTED, THREATENED OR ENDANGERED SPECIES WITHIN 1000' OF THE PROPOSED PERMIT.
 - 7) THERE WILL BE NO TOPSOIL STORAGE AREA.
 - 8) CONTIGUOUS LAND OWNERS: PENN VIRGINIA RESOURCES CORP. (SURF. AND MIN.), KELLY HATHFIELD LAND COMPANY (SURF. AND MIN.), UNITED AFFILIATES CORP. (SURF. AND MIN.), DANNY HALL (SURFACE)
 - 9) FOR IDENTIFICATION OF STRUCTURES, STREAMS, FACILITIES, ETC. WITHIN 7/10 MILE SEE "BLASTING MAP" IN SECTION T.
 - 10) FOR SUBSIDENCE DETAILS ON BUFFALO SEAM HIGHWALL MINING SEE "SUPPLEMENTAL SUBSIDENCE SURVEY MAP"
 - 11) SPRUCE FORK IS A HIGH QUALITY STREAM.

Permit History

ORIGINAL PERMITTED ACRES 3,113.00 AC.

IBR NO. 1

ORIGINAL PERMIT	1,113.00 ACRES
ADDED AREA	28.00 ACRES
DELETED AREA	227.00 ACRES
TOTAL PERMITTED AREA	2,194.00 ACRES

IBR NO. 2

CURRENT PERMIT	3,113.00 ACRES
ADDED AREA	52.00 ACRES
DELETED AREA	887.00 ACRES
TOTAL PERMITTED AREA	2,278.00 ACRES

IBR NO. 3

CURRENT PERMIT	2,278.00 ACRES
ADDED AREA	30.00 ACRES
DELETED AREA	30.00 ACRES
TOTAL PERMITTED AREA	2,278.00 ACRES

IBR NO. 4

CURRENT PERMIT	2,278.00 ACRES
ADDED AREA	7.53 ACRES
DELETED AREA	7.53 ACRES
TOTAL PERMITTED AREA	2,278.00 ACRES

United Affiliates

PANIEL HOLLOW COARSE REFUSE AREA S-5018-04

GUT FORK MINE S-6063-91

SENG CAMP NO.2 S-5070-91

GUT FORK MINE S-6069-91

Allegheny Land

Affiliates

Allegheny Land Co. (Surface) United Affiliates Corp. (Mineral)

Allegheny Land Co. (Surface) United Affiliates Corp. (Mineral)

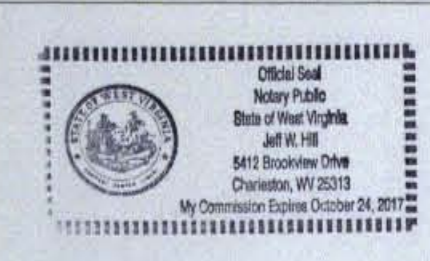
Penn Virginia Resources Corp. (Surface and Mineral)

Kelly Hathfield Land Co. (Surface and Mineral)

Westmoreland Coal Company

Danny Hall (Surface) United Affiliates Corp. (Mineral)

STATE OF WEST VIRGINIA
COUNTY OF HANMING
I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS MAP IS CORRECT AND SHOWS TO THE BEST OF MY KNOWLEDGE AND BELIEF ALL THE INFORMATION REQUIRED BY THE SURFACE MINING LAWS OF THIS STATE.
MY COMMISSION EXPIRES Oct. 24, 2017
[Signature]
PROFESSIONAL ENGINEER



DRAWN BY	2/04 TAJ
DATE BY	7/04 TKF
REVISION	04/06 JMM
	7/06 TKF
	3/08 ABG
	4/08 ABG
	11/08 ABG
	04/09 ABG

MINGO LOGAN COAL COMPANY
7 Players Club Drive
Charleston, West Virginia 25311

Proposal Map
(Subsidence Survey Map)
SPRUCE NO. 1 MINE
Permit No. S-5013-97, Revision #7

Logan County West Virginia

SCALE	1" = 800'	FILE NO.	Spruce 1 PRCP Map-600	SHEET NO.	10F 1
COORDINATE SYSTEM	NAD 83	DATE	04/09	BY	ABG

APPROVED BY: *[Signature]*
DATE BY: *[Signature]*

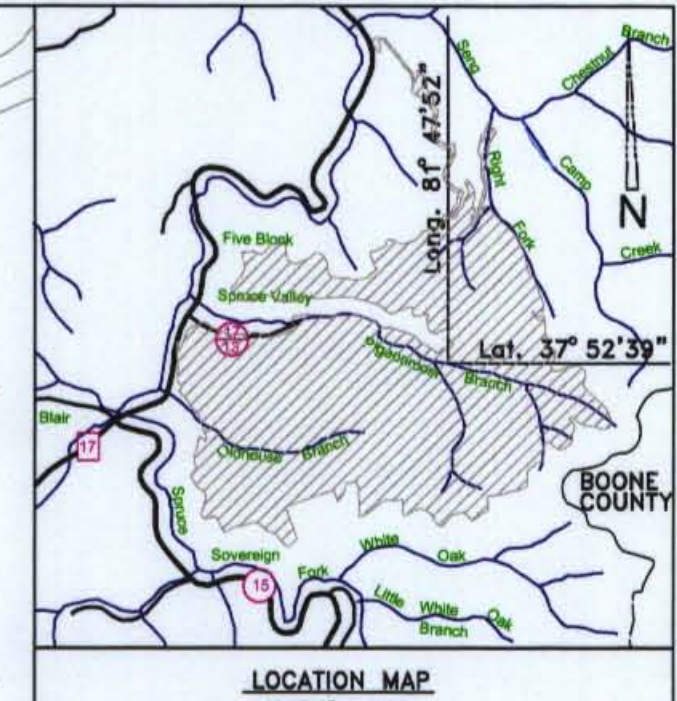
Prepared by: **DECOTA CONSULTING COMPANY, INC.**
898 West Washington Street
Branco, Louisiana, WI 75318

Legend

[Red Area]	1,764.93 Ac. MINERAL REMOVAL AREA	[Pink Box]	Native Topsoil Sample Site
[Yellow Area]	448.47 Ac. DISTURBED AREA	[Red Circle]	Adjacent Permits
[Blue Area]	64.60 Ac. DRAINAGE CONTROL STRUCTURES	[Red Square]	Foundation Bore Hole Location
[Blue Area]	2,278.00 Ac. TOTAL PERMITTED	[Red Circle]	Structure Owned by Allegheny Land Co.

Property line
Drill Hole Location
Perimeter Marker
Occupied Dwelling
Gas Well
Power Lines
5-Block Outcrop *
UST - Upper Stockton Outcrop *
MCB - Middle Coalburg Outcrop *
BUF - Buffalo Outcrop *
Cross Sections
Direction of Highwall Mining

* COAL SEAM AND SPLITS THEREOF



Permit # S-5013-97
Date: January 30, 2008
Type: Revision No. 07

