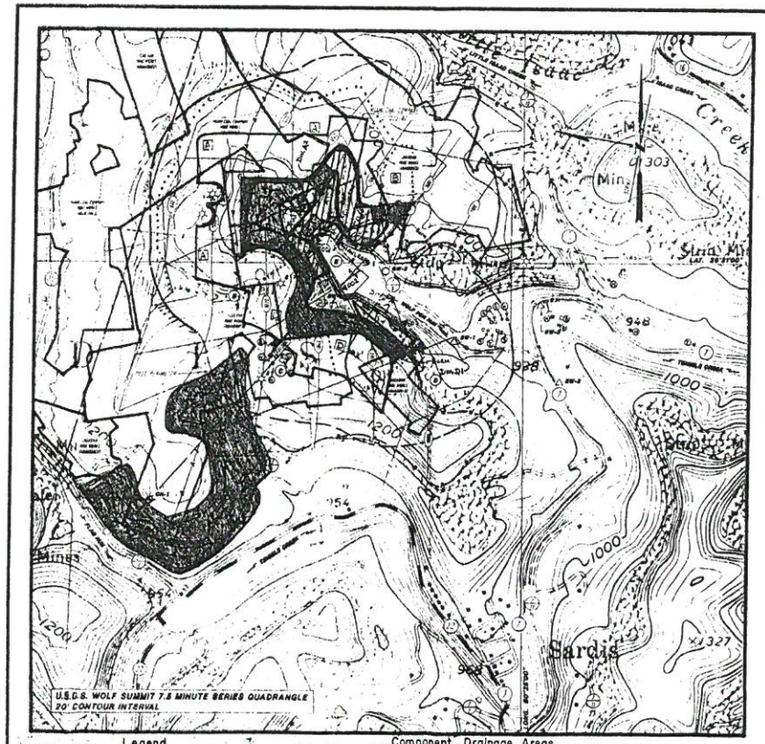

NOTES :

1. NO KNOWN OR PROBABLE CULTURAL, HISTORIC OR ARCHAEOLOGICAL SITES LISTED OR ELIGIBLE FOR LISTING IN THE NATIONAL REGISTER OF HISTORIC PLACES ARE LOCATED WITHIN THE PROPOSED PERMIT OR ADJACENT AREAS.
2. NO LANDS WITHIN THE PROPOSED PERMIT AND ADJACENT AREAS LIE WITHIN THE BOUNDARIES OF ANY PUBLIC PARK.
3. ...PRESENT PRIMARY LAND USE CLASSIFICATION WITHIN THE PERMIT AND ADJACENT AREAS IS PREVIOUSLY MINED AND NOT RECLAIMED. SECONDARY LAND USE CLASSIFICATION IS UNMANAGED FOREST LAND. LAND USE CLASSIFICATIONS MAY NOT CHANGE WITHIN THE PASTURE MARK. THE OPERATOR PROPOSES A POST MINING LAND USE CLASSIFICATION OF PASTURE/FOREST.
4. NO HABITATS OF UNIQUE, ENDANGERED OR ENDANGERED SPECIES ARE LOCATED WITHIN 1,000 FEET OF THE PROPOSED PERMIT AREA.
5. NO LANDS WITHIN THE PROPOSED PERMIT AREA LIE WITHIN OR ADJACENT TO THE BOUNDARIES OF 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 AREAS UNDER STUDY FOR INCLUSION IN ONE OF SYSTEMS.
6. NO PUBLIC OR PRIVATE CEMETERIES, URBAN RURAL LEGACY, OR OTHER AREAS WHERE HUMAN BODIES ARE INTERRED ARE LOCATED IN OR WITHIN 100' OF THE PROPOSED PERMIT AREA.
7. PREVIOUS SURFACE MINED AREAS SHOWN WITHOUT PERMIT NUMBER DESIGNATIONS PRE-DATE CURRENT MINING LAWS AND REGULATIONS.
8. ...EXTENSIVE DEEP MINING HAS BEEN CONDUCTED IN THE PITTSBURGH COAL SEAM UNDER AND ADJACENT TO THE PROPOSED PERMIT AREA. MOST RECENTLY BY MIAMI COAL COMPANY. SEE ATTACHMENT 1-4 FOR DETAILED MIAMI COAL COMPANY MINE MAP.
9. THE PRIMARY AQUIFER AFFECTED BY THE PROPOSED OPERATION IS THAT ASSOCIATED WITH THE PITTSBURGH COAL SEAM. THE STRATA DIPS WEST-NORTHWEST AND EXTENDS FROM THE EXISTING OUTCROPS BENEATH ALL OF NORTHWEST BENEATH THE ADJACENT AREAS AND THE MAPPED AREA. THE DIRECTION OF WATER MOVEMENT WITHIN THE AQUIFER WOULD FOLLOW THE DIP OF THE STRATA.
10. EXPLORATORY DRILLING CONDUCTED AT COAL HOLE #4 ENCOUNTERED WEATHERING TO A DEPTH OF 47.0'. FRACTURE ZONES ARE PRESENT FROM 37.5' TO 45.5' AND FROM 68.5' TO 70.5'.
11. SEASONAL FLOWS MEASURED AT GROUNDWATER MONITORING POINT GW-2 RANGED FROM 2.6 GPM IN SEPTEMBER 1996, TO 71.4 GPM IN APRIL 1996.
12. THE GEOLOGIC MAP OF THE STATE OF WEST VIRGINIA SHOWS NO STRUCTURES OR ANTICLINES PRESENT WITHIN THE AREA OF THE PROPOSED OPERATION. THE LARGEST LINEAR FEATURES OF WEST VIRGINIA MAP SHOWS A LINEAMENT TRACE OF FRACTURE ZONE OF NORTH-SOUTH DIRECTION JUST WEST OF THE PROPOSED PERMIT AREA.
13. ALL DRAINAGE STRUCTURES TEMPORARY.
14. FOR HANDLING CHEMICALS, LUBRICANTS & FUEL USED ---- SEE PAGE 25AC.

BASELINE WATER MONITORING INFORMATION

MONITORING POINT	LATITUDE	LONGITUDE	SURFACE ELEVATION
SW-1	39° 19' 51"	80° 25' 09"	968'
SW-2	39° 19' 14"	80° 24' 44"	935'
SW-3	39° 20' 14"	80° 24' 57"	931'
GW-1	39° 19' 46"	80° 25' 37"	1005'
GW-2	39° 20' 08"	80° 25' 18"	1009'
GW-3	39° 20' 23"	80° 25' 54"	1022'

CORE HOLE INFORMATION

CORE HOLE DESIGNATION	LATITUDE	LONGITUDE	SURFACE ELEVATION
CH-1	39° 19' 33"	80° 25' 33"	1013.57'

SURFACE AND MINERAL OWNERS

ID LOCATION	SURFACE OWNER	OWNER OF MINERALS TO BE MINED
A	A.F. & LYNDALL THURSTON	CHARLES & FRANKLIN SUTTON
B	MARVIN RAY	" " " "
C	LORA L. LEONARD	" " " "
D	EDNA M. WOLFE, ET AL (100' Quarry)	" " " "
E	EDNA M. WOLFE, ET AL (100' Quarry)	" " " "
F	A. FAYE & LYNDALL THURSTON	" " " "
		THE ESTATE COMPANY fbo CHARLES & FRANKLIN SUTTON; & D

OIL & GAS WELL INFORMATION

WELL SYMBOL	DIVISION OF OIL & GAS PERMIT NUMBER	WELL DEPTH
A	47-33-1018	1338'
B	47-33-1036	1835'
C	47-33-1076	
D	47-33-1106	2434'
E	47-33-1118	
F	47-33-1119	2580'
G	47-33-1120	2580'
H	47-33-1162	4851'

WELL INFORMATION OBTAINED FROM WEST VIRGINIA GEOLOGIC AND ECONOMIC SURVEY, OIL & GAS DEPARTMENT, MORGANTOWN, W.V.
* DENOTES NAME OR DESIGNATION NUMBER

* SUTTONS OWN ALL COAL EXCEPT DEEP MINE SITE & COAL EAST TO B.H.P.I BORE HOLE.

GENERAL LOCATION MAP
TEN-A-COAL COMPANY
PERMIT NO.
SMA NO.
SARDIS DISTRICT, HARRISON COUNTY
WEST VIRGINIA
SCALE : 1" = 1 MILE
PREPARED FROM :
W.V.D.O.H. GENERAL HIGHWAY MAP
OF HARRISON COUNTY

NEAREST P.O. : SARDIS, W.V.
RECEIVING STREAM :
WOLF PEN RUN OF TENMILE CREEK OF
WEST FORK RIVER OF MONONGAHELA RIVER

LEGEND

- Surface Water Monitoring Site
- Groundwater Monitoring Site
- Property Line
- Electric Transmission Line
- Gas Transmission Line
- Telephone Line
- Shaft Line Public Service District Water Line
- Unmanaged Forestland Area (same as Mineral Area)
- Areal Extent of Mine Pool Available with Drilling
- Previously Mined and Not Reclaimed Areas
- Top Existing Highwall
- Surface Mine Bench
- Regraded Y-Section (1x1a)
- Deep Mine Permit U-1023-87 Miami Coal Company
- Limits of Plugging*
- 30° Auger Limit (150' From Structures) * See Application For Details of Individual Cases
- Pittsburgh Coal Seam - Pittsburgh Coal Seam Combine at Tip Existing Highwall
- Pittsburgh Coal Basement Contour
- Adjacent Surface Mine Permit
- Disturbed Area
- Drainage Structure
- Mineral Removal Area
- Permit Drainage Area
- Gas/Oil Well
- 1000' Perimeter of Permit Boundary
- Lineament Traces of Fracture Zones
- Core Hole - Overburden Test Site
- Core Hole - Geologic Column
- Limits of Deep Mine Workings
- Barn, Garage, Outbuilding
- Dwelling
- House Trailer
- Church

PROGRESS/RENEWAL LEGEND

Disturbed/Regraded	10.80 Ac
Disturbed/Operation Area	19.92 Ac
Bonded/Not Disturbed	5.80 Ac
TOTAL ACREAGE OF AREAS A & B	36.50 Ac
Permitted/Not Bonded (Areas C & D)	21.50 Ac
TOTAL BONDED ACREAGE	58.00 Ac

APPLICANT / OPERATOR	REVISION / (Revision No.)	DATE :	BY :
TEN-A-COAL COMPANY	ORIGINAL	2/14/95	RT
P.O. BOX 553 CLARKSBURG, W.V. 26302	Acreage Bonded - Renewal	7/31/96	WE
TYPE OF OPERATION : SURFACE MINE		8/14/01	WE
COAL SEAM(S) TO BE MINED : Pittsburgh @ Redstone (Waynesburg Seam)			

I, THE UNDERSIGNED, DO HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THAT THIS DRAWING HAS BEEN PREPARED IN ACCORDANCE WITH ACCEPTED ENGINEERING PRACTICE, IS TRUE, CORRECT AND ACCURATE, AND IS IN ACCORDANCE WITH THE WEST VIRGINIA SURFACE MINING CONTROL AND RECLAMATION ACT AND THE WEST VIRGINIA SURFACE MINING RECLAMATION REGULATIONS.

GEORGE GRIFFEY # 6882

OFFICIAL SEAL
NOTARY PUBLIC
State of West Virginia
VIRGINIA G. GUM
Box South 5th Street
Clarksburg, WV 26301
My Commission Expires May 12, 2004

SWORN, SUBSCRIBED AND SIGNED TO BEFORE ME, A NOTARY PUBLIC, THIS 21st DAY OF August, 2001

MY COMMISSION EXPIRES 5/12/04

Legend

- T — Telephone Cable
- E — Electric Line
- W — Water Line
- G — Gas Line
- Drainage Area Division Line
- Direction Of Flow/Storm Runoff
- Property Line
- Topsoil Stockpile
- Office Trailer & Equipment Storage Of Explosives
- Daily Water Monitoring Site
- Limits Of Disturbed Marker
- Permanent Monument
- Shed
- Trailer
- Barn
- House
- Garage
- Coal Area: 35.40 Ac.
- Disturbed Area: 10.15 Ac.
- Houlroads: 0.00 Ac. (Included Inside)
- Drainage Area: 2.45 Ac.
- TOTAL: 58.00 Ac.

Component Drainage Areas

Area	Drainage Area	Disturbed Area	Required Capacity*	Avail. Capacity
A	15.04 Ac.	36.50 Ac.	4.56 Ac.Ft.	4.59 Ac.Ft.
C	13.72 Ac.	11.35 Ac.	1.42 Ac.Ft.	1.42 Ac.Ft.
D	16.93 Ac.	10.15 Ac.	1.27 Ac.Ft.	1.30 Ac.Ft.
	TOTAL= 58.00 Ac.		9.45 Ac.Ft.	

Water Analysis Results

Site	pH (Minimum)	Iron (mg/l)	Suspended Solids (mg/l)
SW1	7.9	6.51	20
SW2	7.2	3.07	8
SW3	7.4	3.66	12
GW1	8.2	.24	10
GW2	7.1	40.3	58
GW3	6.2	127.0	194

Judgement

No.	Area	Acreage	Totals
1	A	27.49*	27.4
2	B	10.0	37.9
3	C	10.45*	47.85
4	D	10.15	58.00

* Includes .45 Ac. From Area C To Bond All Deep Mine Permit Area, & 10 Ac. For Roadbed A In Increment A.

PREPARED BY :
STURM ENVIRONMENTAL SERVICES, INC.
P.O. BOX 650, BRIDGEPORT, W.V. 26330

ATTACHMENT 1-8
GEOHYDROLOGIC MAP

RENEWAL MAP

WEST VIRGINIA DIVISION OF ENVIRONMENTAL PROTECTION
SMALL OPERATORS ASSISTANCE PROGRAM - NUMBER: 213
TEN-A-COAL COMPANY - WOLF PEN RUN PROJECT
PERMIT NO. S-1007-95 SMA NO. 1007-95

PROPOSAL / DRAINAGE MAP

SARDIS DISTRICT, HARRISON COUNTY
WEST VIRGINIA

~~NOVEMBER, 1995~~
August, 2001

SCALE : 1" = 600'

12/19/01

PGN 30m
Wolf Summit Q4
Core #1
10/19/01

17 [illegible] S-1007-9595
TEN A COAL CO
WOLF PEN RUN #1/NANCY
MINE 00100796

953389
WolfSummit
PGN