LEGEND

- GAS WELL
- WATER WELL
- SPRING
- POND/IMPOUNDMENT
- FLOW MEASUREMENT PT.
- PERENNIAL STREAM
- INTERMITTENT STREAM
- PIPELINE/U'GROUND CABLE elec, oil or gas labeled
- PROPERTY LINE
- POWER LINE (500 KVA or longer)
- COAL CONTOUR LINE
- CROPLINE
- FAULT or LOW COAL LINE
- 1000' PERIMETER LINE
- STATE ROAD
- TOWNSHIP ROAD
- UNIMPROVED ROAD
- (1) DEEPMINES REFERENCED TO MODULE 9.2
- PERMIT BOUNDARY
- SUBSIDENCE CONTROL PLAN BOUNDARY
- NO MINING ZONE
- DEPTH OF COVER LINE FROM DEEP AND SURFACE MINING
- PROTECTED AREA – SUBSIDENCE (25° ANGLE OF DRAW)
- BOREHOLE (MINE OPENINGS)
- DRILL HOLE
- PROTECTED STRUCTURE
- NONPROTECTED STRUCTURE
- DWELLING BUILT AFTER APRIL, 1966
- BACKGROUND GROUNDWATER SAMPLE PT.
- EXISTING GROUNDWATER MONITORING PT.
- BACKGROUND SURFACE SAMPLE PT.
- SURFACE WATER MONITORING PT. (existing & proposed)
- P.W.S. PUBLIC WATER SUPPLY
- CURRENT MINING
- SURFACE PERMIT AREA
- BRIDGE
- CULVERT
- RAILROAD
- SWAMP/MARSH
- DITCH – OR DRAINS
- TOE OF SPOIL, ROCK OR COAL REFUSE PILE
- CHURCH
- CEMETERY

NOTES:

1. 20' SURFACE CONTOUR INTERVAL

A
INDD3524
SURF. ELEV. 1398.47
WATER ELEV. 1337.47
U.K. ELEV. 1169.39

B
INDA2691
SURF. ELEV. 1115.46
WATER ELEV. NONE
U.K. ELEV. 1074.64

INDA2688
SURF. ELEV. 1205.52
WATER ELEV. NONE
U.K. ELEV. 1061.77

SURF. ELEV. 1216.22
WATER ELEV. NONE
U.K. ELEV. 1174.48
INDA2703

INDD0189
SURF. ELEV. 1401.70
WATER ELEV. NONE
U.K. ELEV. 1187.20

INDD1128
SURF. ELEV. 1368.04
WATER ELEV. NONE
U.K. ELEV. 1148.15

INDD3413
SURF. ELEV. 1382.73
WATER ELEV. 1365.73
U.K. ELEV. 1174.26

INDD3572
SURF. ELEV. 1374.12
WATER ELEV. 1302.12
U.K. ELEV. 1153.72

INDD1823
SURF. ELEV. 1360.00
WATER ELEV. 1349.00
U.K. ELEV. 1141.62

A
INDD2816
SURF. ELEV. 1300.81
WATER ELEV. NONE
U.K. ELEV. 1092.41

INDD2825
SURF. ELEV. 1188.79
WATER ELEV. 1132.79
U.K. ELEV. 1114.39

INDD3412
SURF. ELEV. 1330.92
WATER ELEV. 1170.92
U.K. ELEV. 1114.57

INDD3410
SURF. ELEV. 1259.95
WATER ELEV. 1129.95
U.K. ELEV. 1040.60

B'
INDD3324
SURF. ELEV. 1196.78
WATER ELEV. 1164.78
U.K. ELEV. 958.91

MAR-GW-20
MAR-GW-19
MAR-GW-17
MAR-GW-16
MAR-GW-18
MAR-MD-13
GW-25
GW-26
GW-10
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25 DEGREE ANGLE OF DRAW
GDW-009C CROSS-SECTION
GEOLOGIC CROSS-SECTION
PERMIT BOUNDARY
1000' PERIMETER
25 Degree Angle of Draw Line
Lucerne No. 9 Mine Active CMAP No. 32841313
KEMF NO. 9
N

RECEIVED
MAR 1 2 1993
Dept. of Environmental Resources
Bureau of Mines

HELVETIA COAL COMPANY

ENGINEERING / ENVIRONMENTAL COMPLIANCE DEPARTMENT

Operation: MARSHALL RUN MINE	Permit No:
Township: CONEMAUGH AND YOUNG	County: INDIANA
Coal Seam: UPPER KITTANNING	Geologic Group: ALLEGHENY

EXHIBIT 19.2
ENVIRONMENTAL RESOURCES MAP

Date	Revisions
MAR 1 0 1993	

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER DAVID E. YINGLING

Date:
Scale: 1" = 400'
Approved By / Date:
Drawing No:

David E. Yingling