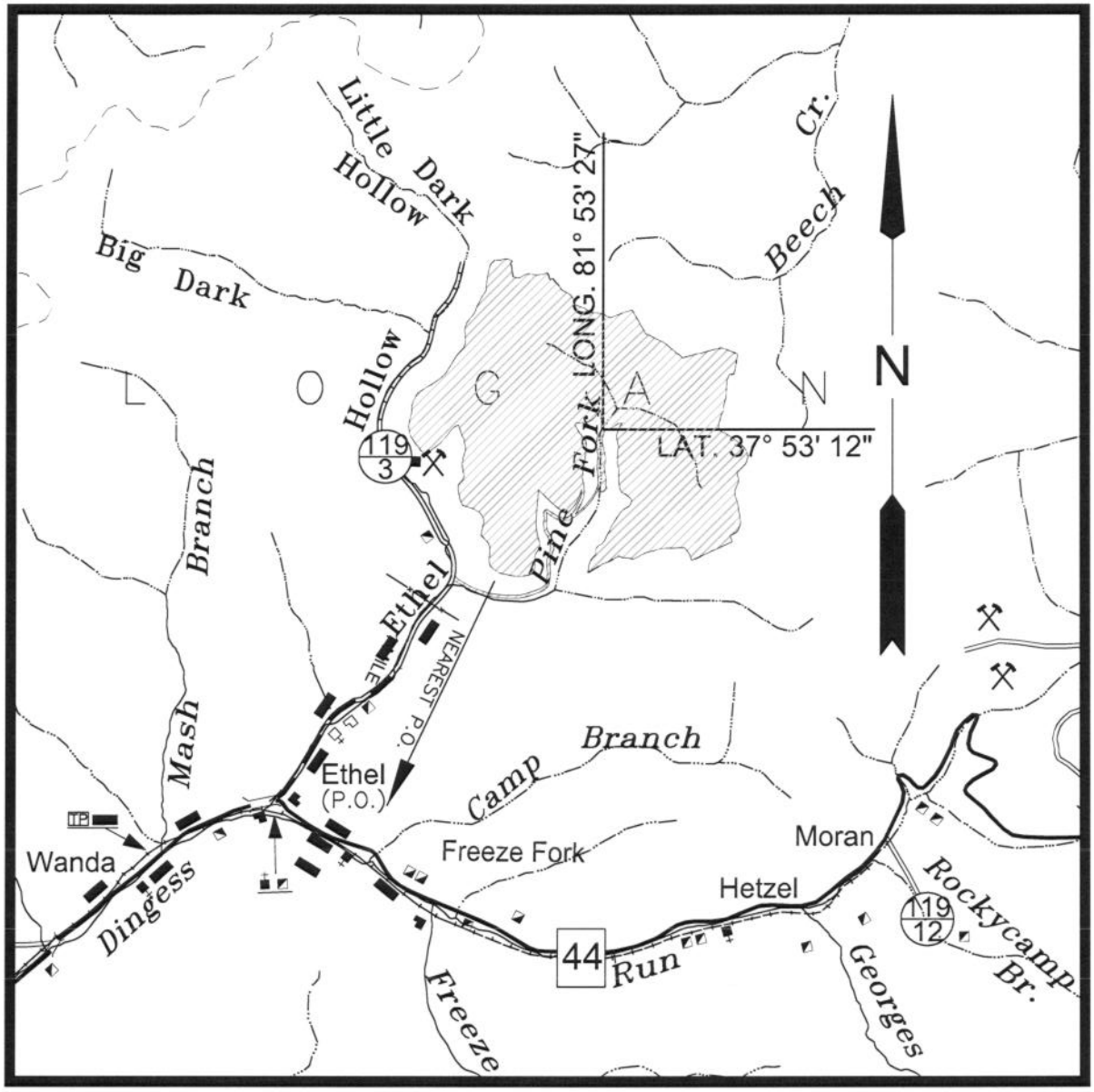
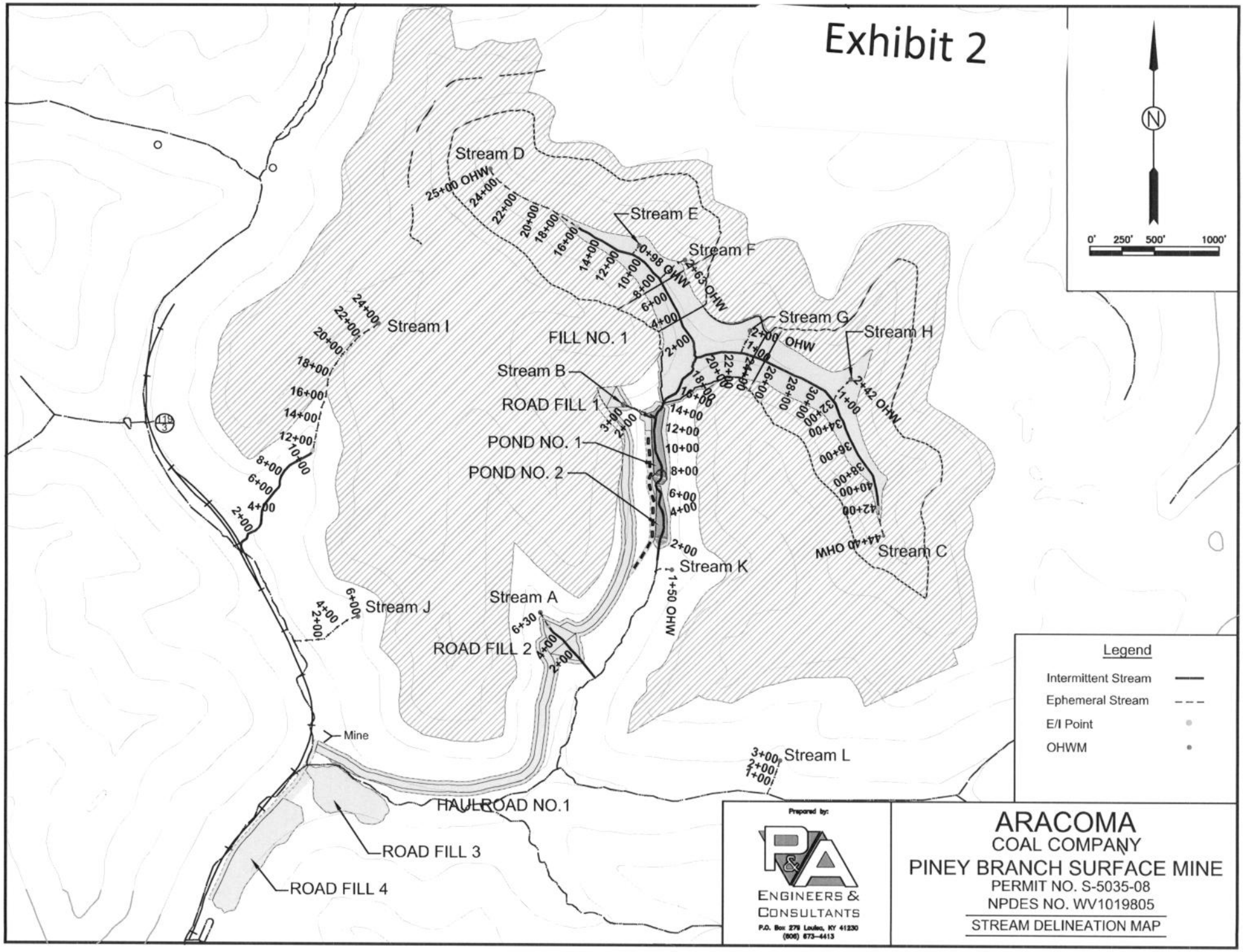


LOCATION MAP – Logan County, Logan District
Receiving Streams: Pine Fork and unnamed tributaries of Pine Fork, and unnamed tributaries of Ethel Hollow, and Ethel Hollow of Dingess Run of the Guyandotte River
Major Sub–Basins: Ohio River
Nearest Post Office: Ethel, WV
Direction to Operation from Nearest Post Office: 1.1 Miles Northeast of Ethel, WV
Scale: 1" = 1 Mile Permit No.: S–5035–08

Exhibit 1

Exhibit 2


N
0' 250' 500' 1000'
Stream D
25+00 OHW
Stream E
Stream F
0+98 OHW
2+63 OHW
Stream G
Stream H
2+42 OHW
Stream I
FILL NO. 1
Stream B
ROAD FILL 1
POND NO. 1
POND NO. 2
Stream K
1+50 OHW
Stream C
44+40 OHW
Stream J
Stream A
6+30
ROAD FILL 2
Mine
Stream L
HAULROAD NO.1
ROAD FILL 3
ROAD FILL 4
Legend
Intermittent Stream
Ephemeral Stream
E/I Point
OHWM
Prepared by:
P&A
ENGINEERS & CONSULTANTS
P.O. Box 278 Louisa, KY 41230
(606) 673-4413
ARACOMA
COAL COMPANY
PINEY BRANCH SURFACE MINE
PERMIT NO. S-5035-08
NPDES NO. WV1019805
STREAM DELINEATION MAP

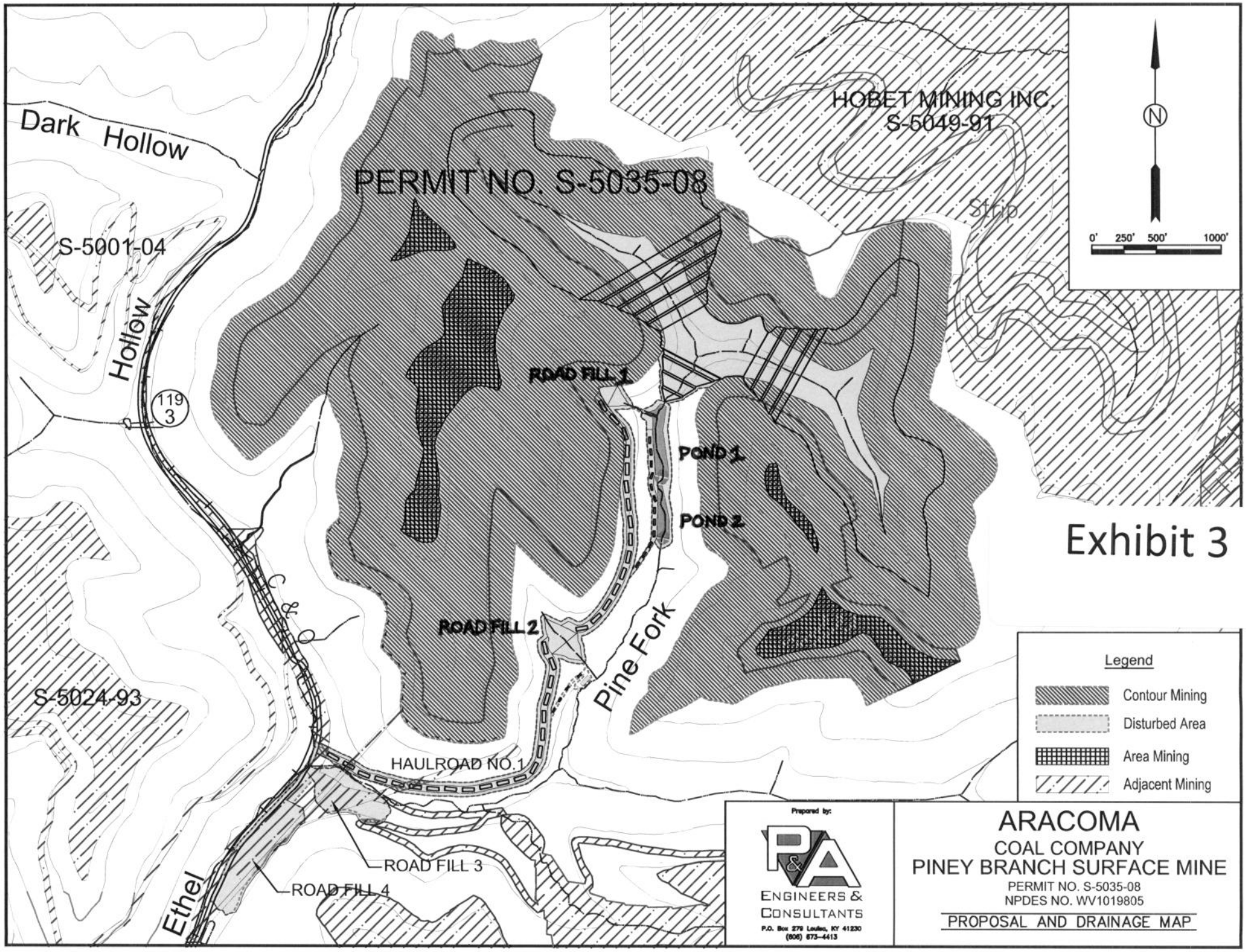

Dark Hollow
S-5001-04
Hollow
119
3
PERMIT NO. S-5035-08
HOBET MINING INC.
S-5049-91
Strip
N
0' 250' 500' 1000'
ROAD FILL 1
POND 1
POND 2
ROAD FILL 2
C & O
Pine Fork
S-5024-93
HAULROAD NO.1
ROAD FILL 3
ROAD FILL 4
Ethel
Legend
Contour Mining
Disturbed Area
Area Mining
Adjacent Mining
Prepared by:
P&A
ENGINEERS & CONSULTANTS
P.O. Box 279 Louisa, KY 41230
(606) 673-4413
ARACOMA
COAL COMPANY
PINEY BRANCH SURFACE MINE
PERMIT NO. S-5035-08
NPDES NO. WV1019805
PROPOSAL AND DRAINAGE MAP

Exhibit 3

TYPICAL GEOLOGIC CROSS SECTION

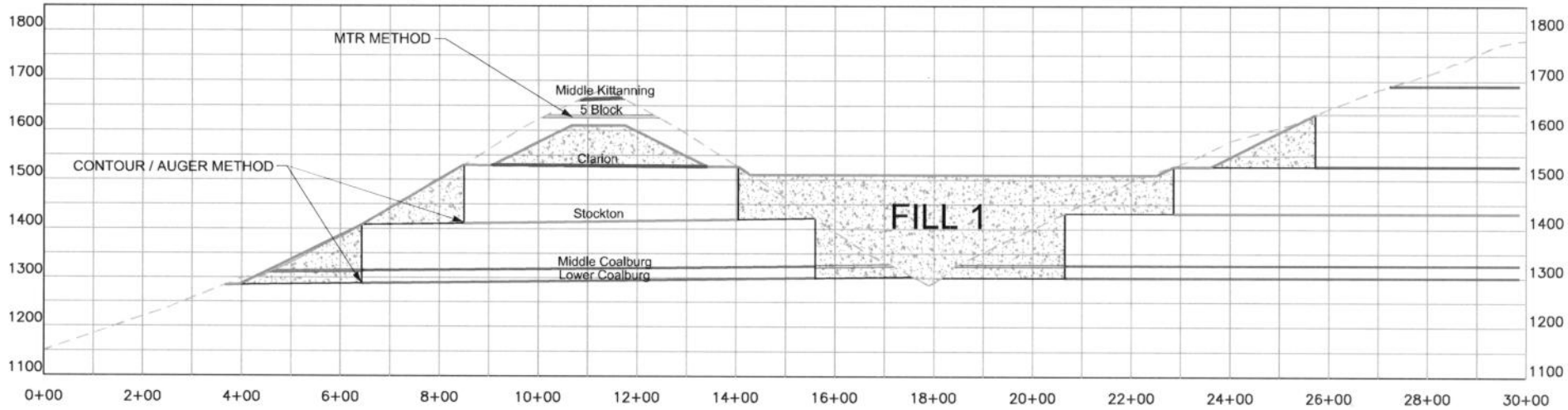


Exhibit 4

LEGEND

- REGRADE LINE
- ORIGINAL GROUND
- EXCAVATED
- COAL SEAM
- FILL/BACKFILL

Prepared by:

P&A ENGINEERS & CONSULTANTS

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ARACOMA
COAL COMPANY
PINEY BRANCH SURFACE MINE

PERMIT NO. S-5035-08
NPDES NO. WV1019805

TYPICAL CROSS SECTION

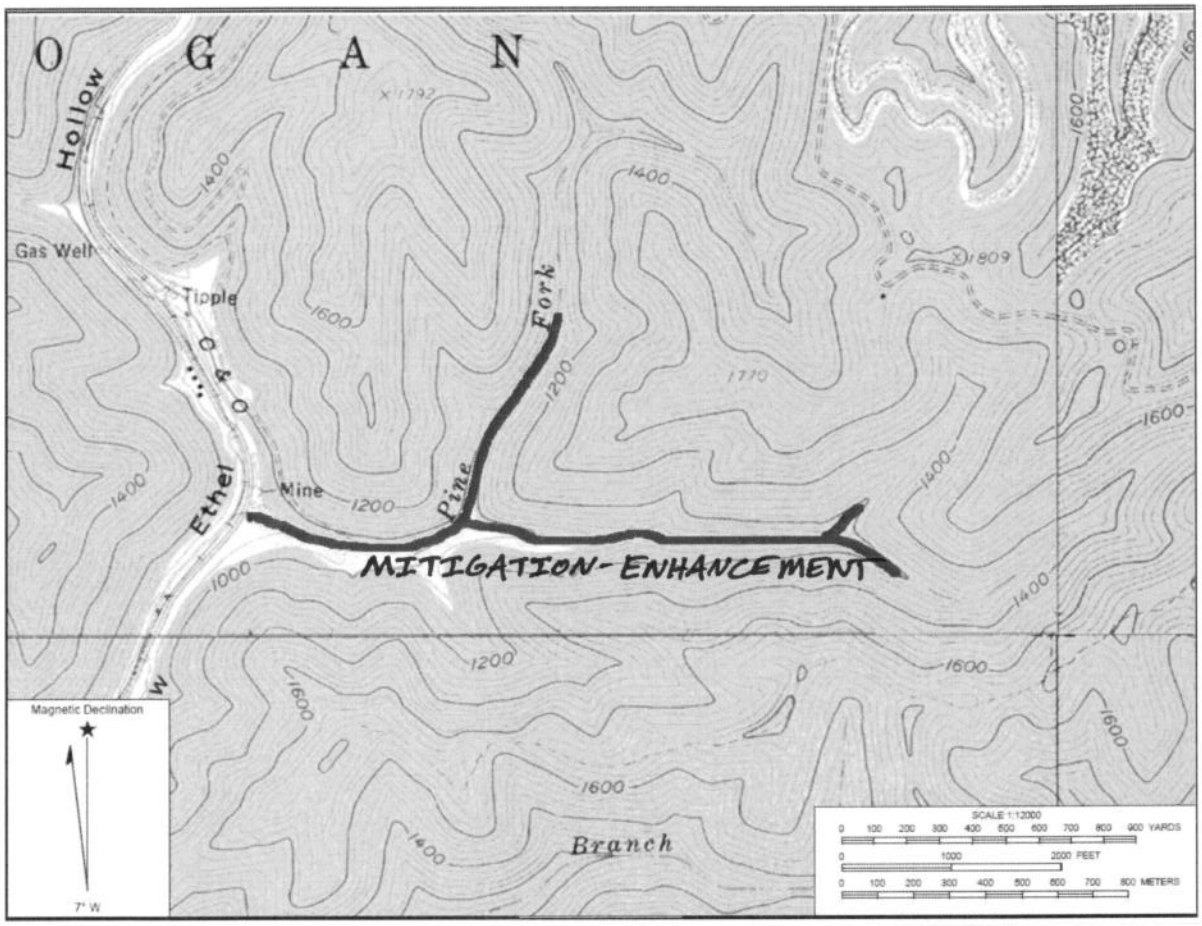
O G A N
Hollow
Gas Well
Tipple
Ethel
Mine
Pine
Fork
MITIGATION-ENHANCEMENT
Branch
Magnetic Declination
7° W
SCALE 1:12000
YARDS
FEET
METERS

Exhibit 5