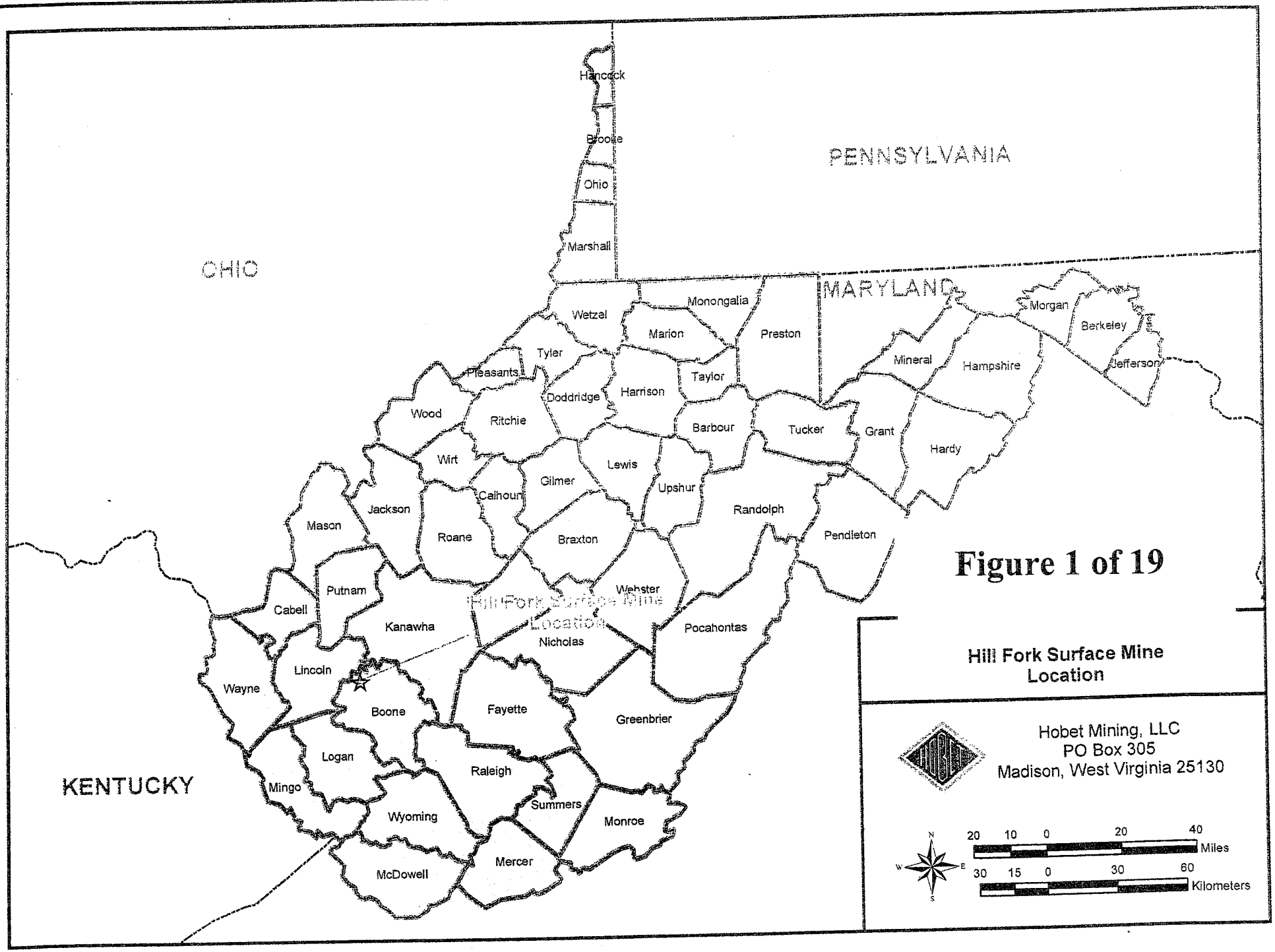
The following document is not readable via Optical Character Recognition. For more information or if you require the document to be read aloud please call: 304-399-5353


PENNSYLVANIA
OHIO
MARYLAND
KENTUCKY
Hancock
Brooke
Ohio
Marshall
Wetzel
Monongalia
Marion
Preston
Tyler
Pleasants
Taylor
Harrison
Doddridge
Wood
Ritchie
Barbour
Tucker
Mineral
Morgan
Berkeley
Jefferson
Hampshire
Grant
Hardy
Wirt
Lewis
Gilmer
Calhoun
Upshur
Randolph
Jackson
Mason
Roane
Braxton
Pendleton
Putnam
Webster
Cabell
Kanawha
Hill Fork Surface Mine Location
Nicholas
Pocahontas
Lincoln
Wayne
Boone
Fayette
Greenbrier
Logan
Raleigh
Mingo
Summers
Wyoming
Monroe
Mercer
McDowell
Figure 1 of 19
Hill Fork Surface Mine Location
Hobet Mining, LLC
PO Box 305
Madison, West Virginia 25130
N
W
E
S
20 10 0 20 40
Miles
30 15 0 30 60
Kilometers

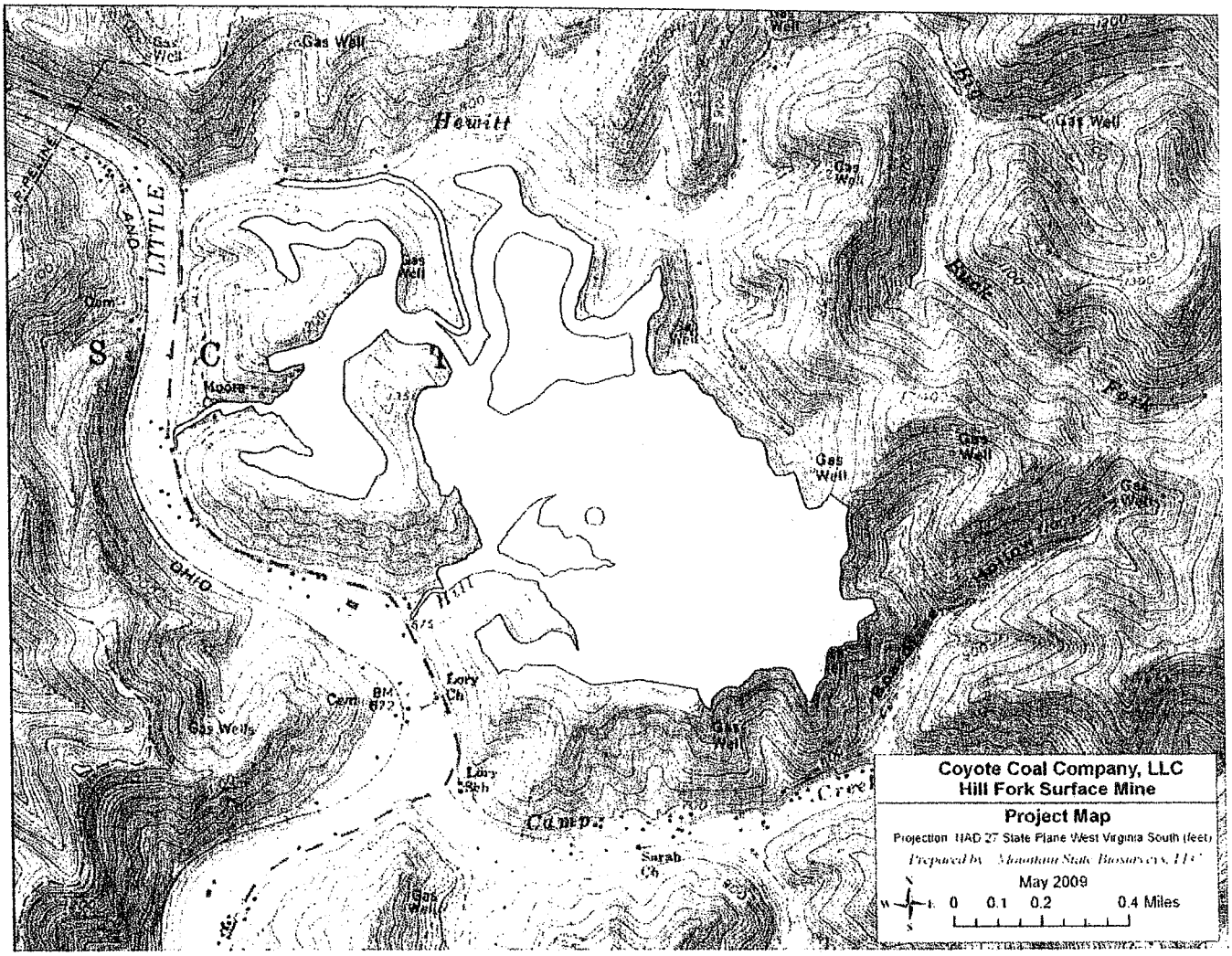


Figure 2 of 19

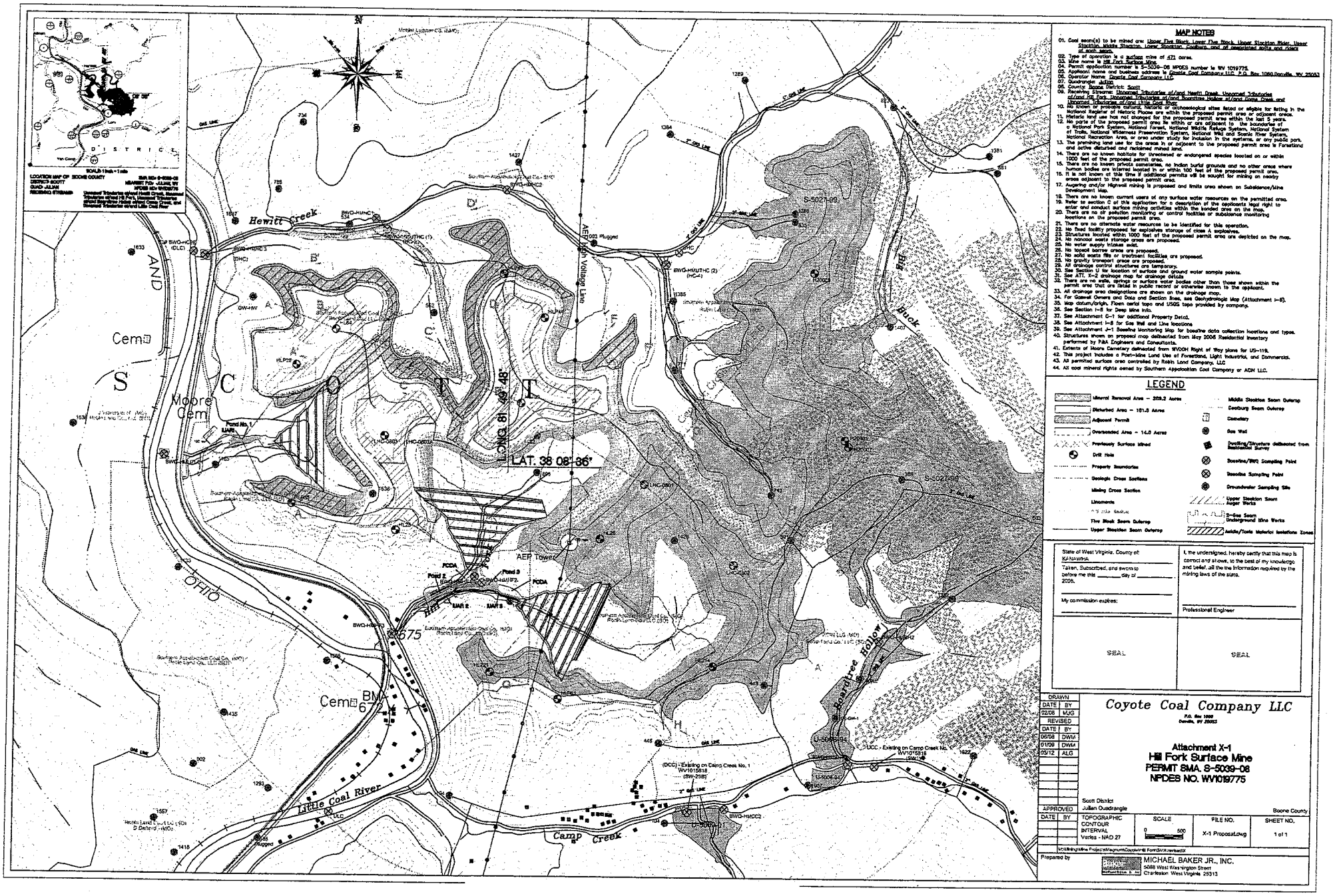
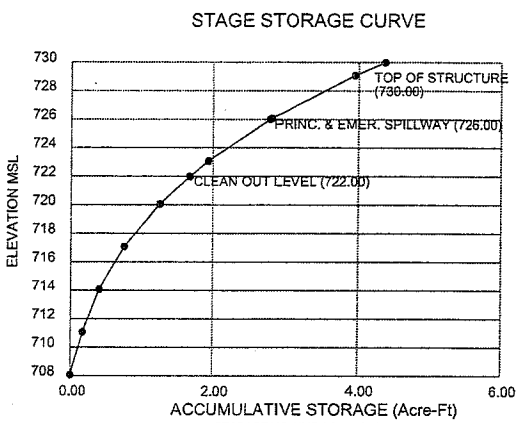
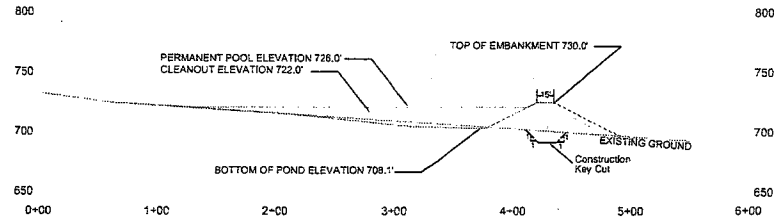


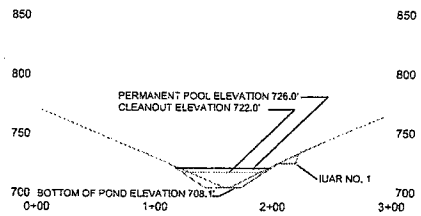
Figure 3 of 19

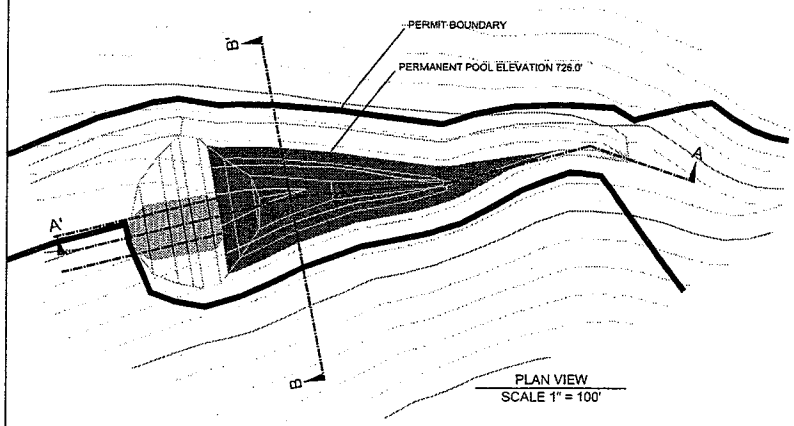


STORAGE VOLUME COMPUTATIONS

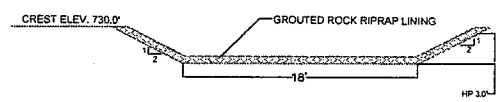
ELEV. (ft)	WIDTH (ft)	LENGTH (ft)	AREA (ac)	AVG. AREA (ac)	INTERVAL (ft)	STORAGE (ac-ft)	ACC. STORAGE (ac-ft)	STAGE INTERVAL (ft)
708.08	N/A	N/A	0.0000					
711.08	N/A	N/A	0.0580	0.0580	3.00	0.1740	0.1740	3.00
714.08	N/A	N/A	0.0950	0.0765	3.00	0.2295	0.4035	6.00
717.08	N/A	N/A	0.1400	0.1175	3.00	0.3525	0.7560	9.00
720.08	N/A	N/A	0.1950	0.1675	3.00	0.5025	1.2585	12.00
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
723.08	N/A	N/A	0.2540	0.2434	1.08	0.2629	1.9320	15.00
726.00	N/A	N/A	0.3319	0.2929	2.92	0.8554	2.7874	17.92
726.08	N/A	N/A	0.3340	0.3329	0.08	0.0266	2.8140	18.00
729.08	N/A	N/A	0.4240	0.3790	3.00	1.1370	3.9510	21.00
730.00	N/A	N/A	0.4700	0.4470	0.92	0.4112	4.3622	21.92







PLAN VIEW
SCALE 1" = 100'



CROSS SECTION
EXIT CHANNEL CONTROL SECTION
N.T.S.
Pond No. 1

State of West Virginia, County of Kanawha
Taken, Subscribed, and sworn to before me this
_____ day of _____ 2007.
(signature)
My commission expires:

I, the undersigned, hereby certify that this map is correct and shows, to the best of my knowledge and belief all the the information required by the mining laws of the state.

Professional Engineer

SEAL

SEAL

DRAWN	
DATE	BY
11/08	DWM
REVISED	
DATE	BY
03/12	ALG
APPROVED	
DATE	BY

Coyote Coal Company LLC
P.O. BOX 1060
Danville, WV 25053

Pond No. 1 Details
HILL FORK SURFACE MINE
SMA No. S-5039-08 NPDES NO. WV0019775

TOPOGRAPHIC CONTOUR INTERVAL 10 - NAD 27

SCALE 0 100

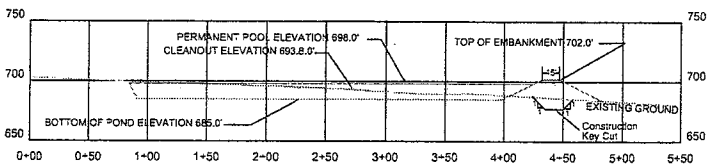
FILE NO. Pond 3.dwg

SHEET NO. 1 of 1

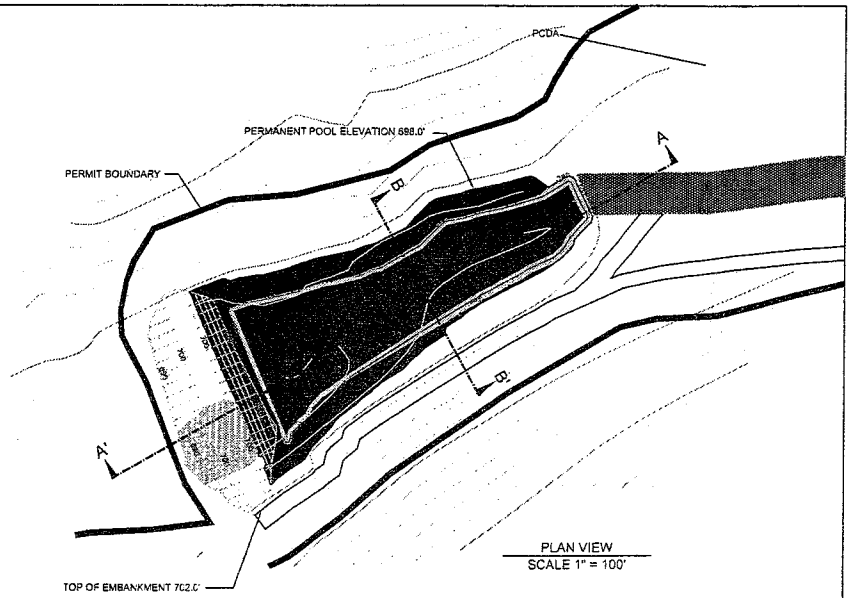
Path M:\Mining\Mine Projects\Magnum\Coyote\Hewitt West\SMA\P

Prepared by MICHAEL BAKER JR., INC.
5088 West Washington Street
Charleston, West Virginia 25313

Figure 4 of 19

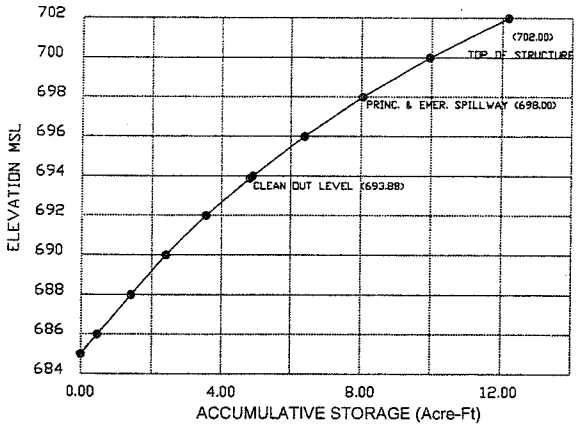


PROFILE SECTION
A-A' POND SECTION



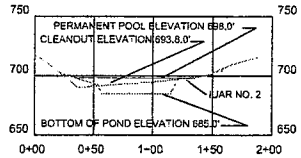
PLAN VIEW
SCALE 1" = 100'

STAGE STORAGE CURVE

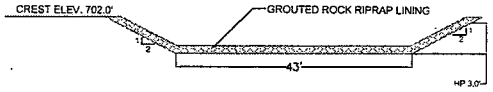


STORAGE VOLUME COMPUTATIONS
Hill Fork Surface Mine

ELEV. (ft)	WIDTH (ft)	LENGTH (ft)	AREA (ac)	AVG. AREA (ac)	INTERVAL (ft)	STORAGE (ac-ft)	ACC. STORAGE (ac-ft)	STAGE INTERVAL (ft)
685.00	N/A	N/A	0.0000					
686.00	N/A	N/A	0.4630	0.4630	1.00	0.4630	0.4630	1.00
688.00	N/A	N/A	0.4840	0.4735	2.00	0.9470	1.4100	3.00
690.00	N/A	N/A	0.5180	0.5010	2.00	1.0020	2.4120	5.00
692.00	N/A	N/A	0.6320	0.5750	2.00	1.1500	3.5620	7.00
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
694.00	N/A	N/A	0.7060	0.7038	0.12	0.0845	4.9000	9.00
696.00	N/A	N/A	0.7830	0.7445	2.00	1.4890	6.3890	11.00
698.00	N/A	N/A	0.8750	0.8290	2.00	1.6580	8.0470	13.00
700.00	N/A	N/A	1.0280	0.9515	2.00	1.9030	9.9500	15.00
702.00	N/A	N/A	1.2040	1.1160	2.00	2.2320	12.1820	17.00



CROSS SECTION
B-B' POND SECTION



CROSS SECTION
EXIT CHANNEL CONTROL SECTION
N.T.S.
Pond No. 2

State of West Virginia County of Kanawha
Taken, Subscribed, and sworn to before me this
_____ day of _____ 2007.
(signature)
My commission expires:

I, the undersigned, hereby certify that this map is correct and shows, to the best of my knowledge and belief, all the the information required by the mining laws of the state.

Professional Engineer

SEAL

SEAL

DRAWN	
DATE	BY
11/06	DWM
REVISED	
DATE	BY
APPROVED	
DATE	BY

Coyote Coal Company LLC
P.O. BOX 1060
Danville, WV 25053

Pond No. 2 Details
HILL FORK SURFACE MINE
SMA No: 6-6039-06 NPDES NO. WV0097775

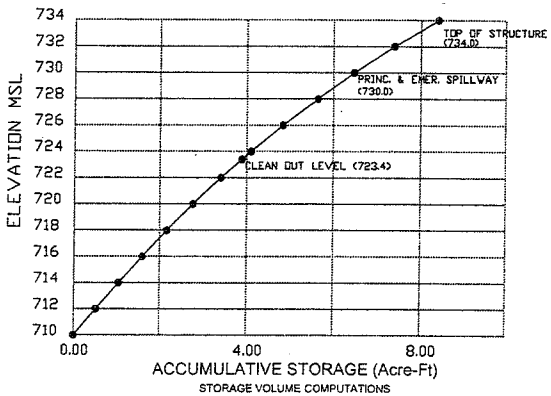
TOPOGRAPHIC CONTOUR INTERVAL 10 - NAD 27	SCALE 0 100	FILE NO. Pond 2.dwg	SHEET NO. 1 of 1

Path M:\Mining\Mine Projects\Magnum\Coyote\Hill Fork\SMA\revised\P

Prepared by MICHAEL BAKER JR., INC.
5088 West Washington Street
Charleston, West Virginia 25313

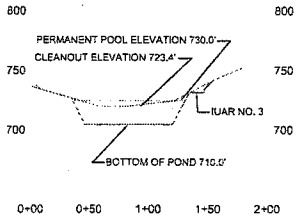
Figure 5 of 19

STAGE STORAGE CURVE

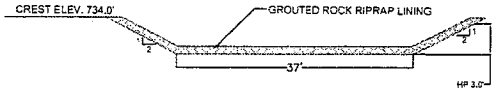


STORAGE VOLUME COMPUTATIONS
Hill Fork Surface Mine

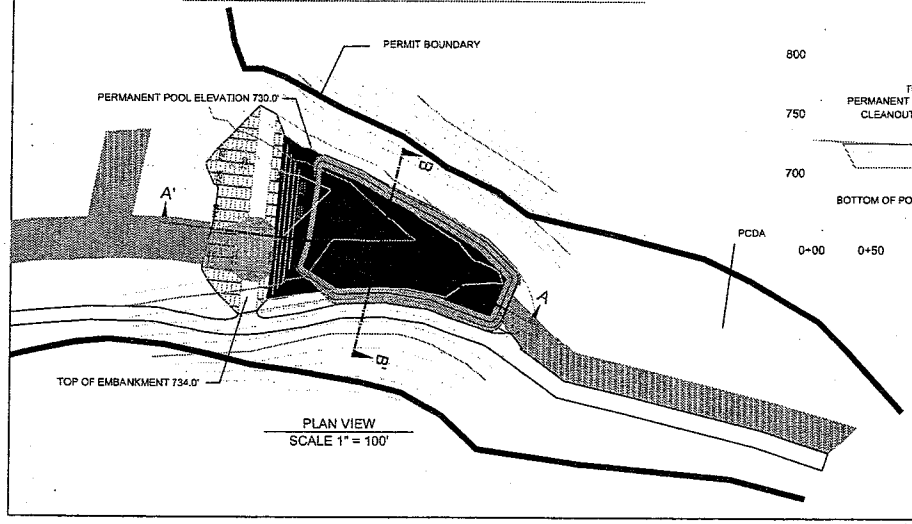
ELEV. (ft)	WIDTH (ft)	LENGTH (ft)	AREA (ac)	AVG. AREA (ac)	INTERVAL (ft)	STORAGE (ac-ft)	ACC. STORAGE (ac-ft)	STAGE INTERVAL (ft)
710.00	N/A	N/A	0.0000					
712.00	N/A	N/A	0.2592	0.2592	2.00	0.5184	0.5184	2.00
714.00	N/A	N/A	0.2701	0.2647	2.00	0.5293	1.0477	4.00
716.00	N/A	N/A	0.2812	0.2757	2.00	0.5513	1.5990	6.00
718.00	N/A	N/A	0.2924	0.2868	2.00	0.5736	2.1726	8.00
720.00	N/A	N/A	0.3061	0.2993	2.00	0.5985	2.7711	10.00
722.00	N/A	N/A	0.3357	0.3209	2.00	0.6418	3.4129	12.00
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
724.00	N/A	N/A	0.3579	0.3546	0.60	0.2127	4.1065	14.00
726.00	N/A	N/A	0.3825	0.3702	2.00	0.7404	4.8469	16.00
728.00	N/A	N/A	0.4084	0.3955	2.00	0.7909	5.6378	18.00
730.00	N/A	N/A	0.4370	0.4227	2.00	0.8454	6.4832	20.00
732.00	N/A	N/A	0.4790	0.4580	2.00	0.9160	7.3992	22.00
734.00	N/A	N/A	0.5365	0.5078	2.00	1.0155	8.4147	24.00



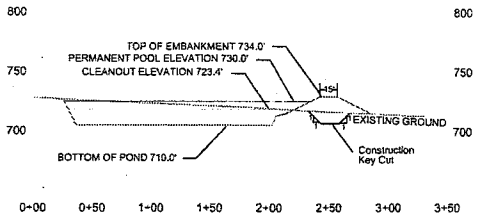
CROSS SECTION
B-B' POND SECTION



CROSS SECTION
EXIT CHANNEL CONTROL SECTION
N.T.S.
Pond No. 3



PLAN VIEW
SCALE 1" = 100'



PROFILE SECTION
A-A' POND SECTION

State of West Virginia County of Kanawha
Taken, Subscribed and sworn to before me this
_____ day of _____ 2007
_____ (Signature)
My commission expires:

I, the undersigned, hereby certify that this map is correct and shows, to the best of my knowledge and belief, all the the information required by the mining laws of the state.

Professional Engineer

SEAL

SEAL

DRAWN	
DATE	BY
11/06	DWM
REVISED	
DATE	BY
APPROVED	
DATE	BY

Coyote Coal Company LLC
P.O. BOX 1080
Danville, WV 25053

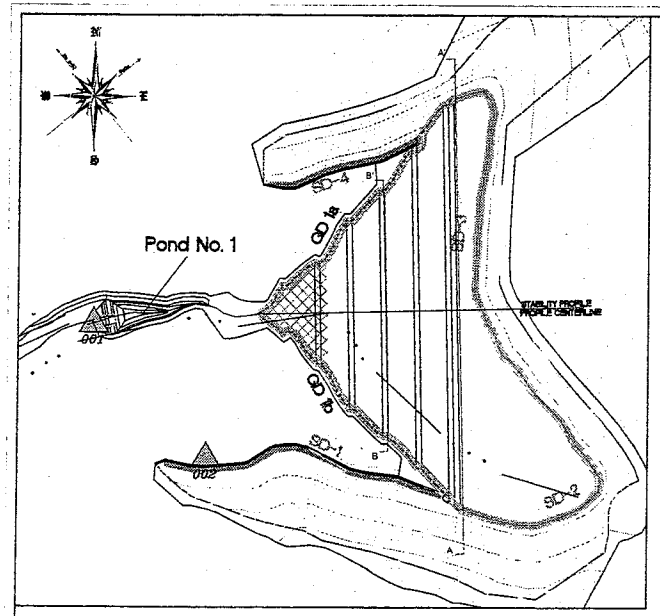
Pond No. 3 Details
HILL FORK SURFACE MINE
SMA No: S-5009-06 NPDES NO. WV1019775

TOPOGRAPHIC CONTOUR INTERVAL 10 - NAD 27
SCALE 0 100
FILE NO. Pond 3.dwg
SHEET NO. 1 of 1

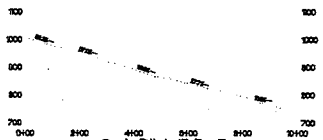
Path M:\Mining\Mine Projects\Magnum\Coyote\Hill Fork\SMA\revised\P

Prepared by MICHAEL BAKER JR., INC.
5088 West Washington Street
Charleston, West Virginia 25313

Figure 6 of 19

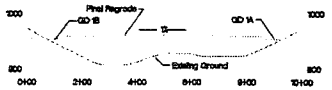


Plan View
1" = 200' Scale

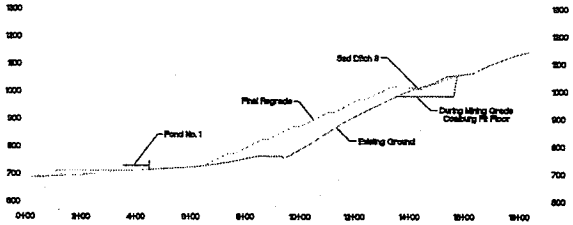


Groin Ditch 1B Profile
1" = 200' Scale

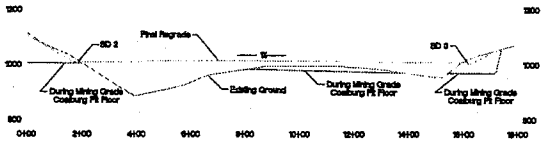
Groin Ditch 1A Profile
1" = 200' Scale



Section B-B'
1" = 200' Scale



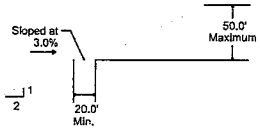
PROFILE VALLEY FILL NO. 1
1" = 200' Scale



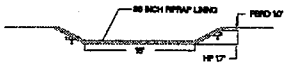
Section A-A'
1" = 200' Scale

LEGEND

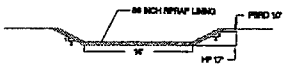
- Existing/Original Ground
- During Mining Grade
- Coal Seam
- Proposed Fill
- VF Pond
- Critical Foundation Zone



TYPICAL DETAIL
FACE CONFIGURATION



TYPICAL SECTION - GD 1A
N.T.S.



TYPICAL SECTION - GD 1B
N.T.S.

DRAWN	
DATE	BY
11/03	DWM
REVISED	
DATE	BY
03/12	ALG
APPROVED	
DATE	BY

Coyote Coal Company LLC
P.O. Box 1060
Danville, WV 25053

Hill Fork Surface Mine
Valley Fill No. 1
Plan View, Profiles, and Sections
Attachment R-3.A

Scott District
Julian Quadrangle
Boone County

TOPOGRAPHIC CONTOUR INTERVAL 20 - NAD 27	SCALE 0 200	FILE NO. VF1 Details	SHEET NO. 1 of 1

Path: M:\Mining\Mine Projects-Magnum\Coyote-Hill Fork-Stilt\revised\R

Prepared by
MICHAEL BAKER JR., INC.
5088 West Washington Street
Charleston, West Virginia 25313

Figure 7 of 19

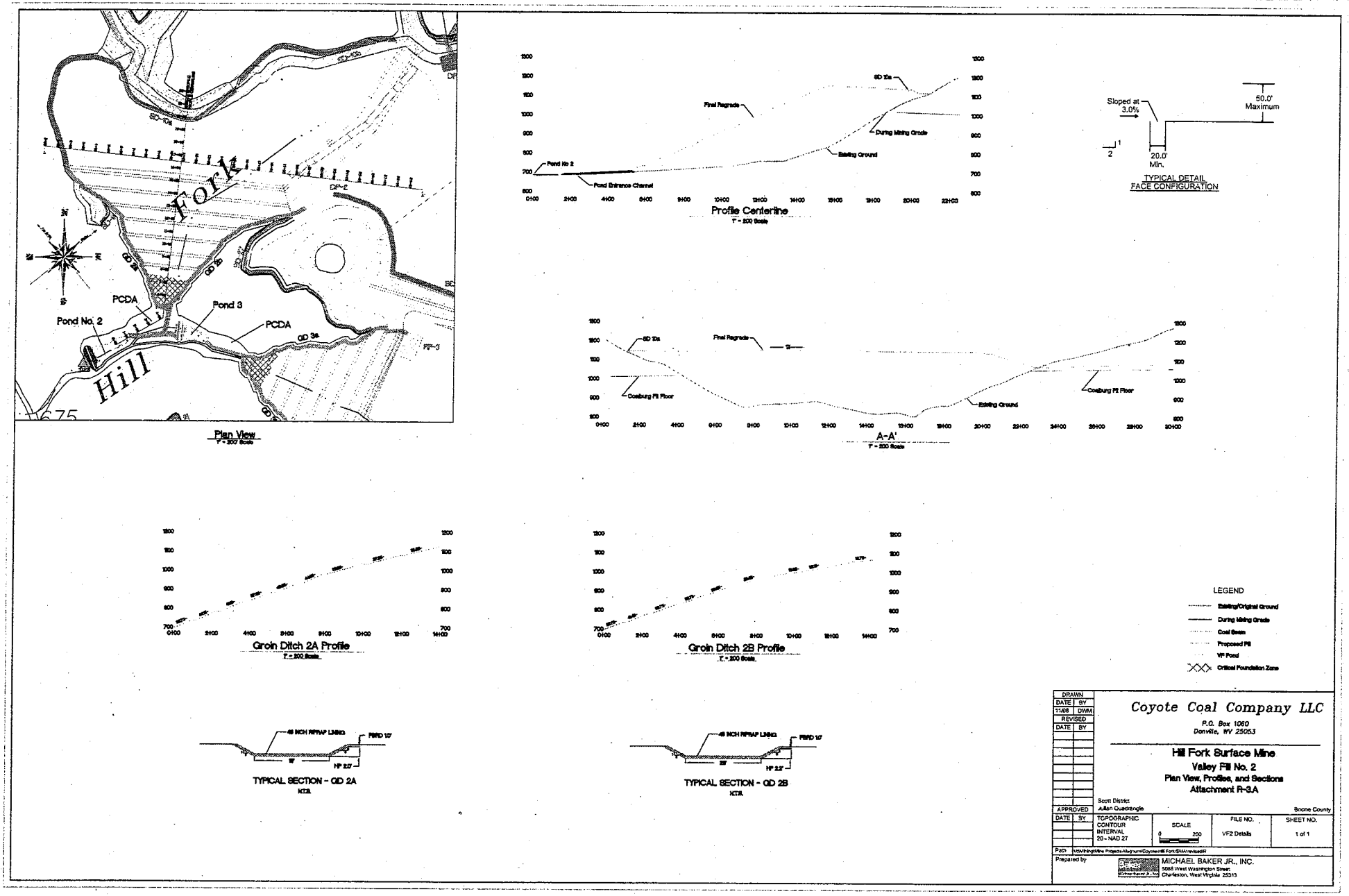
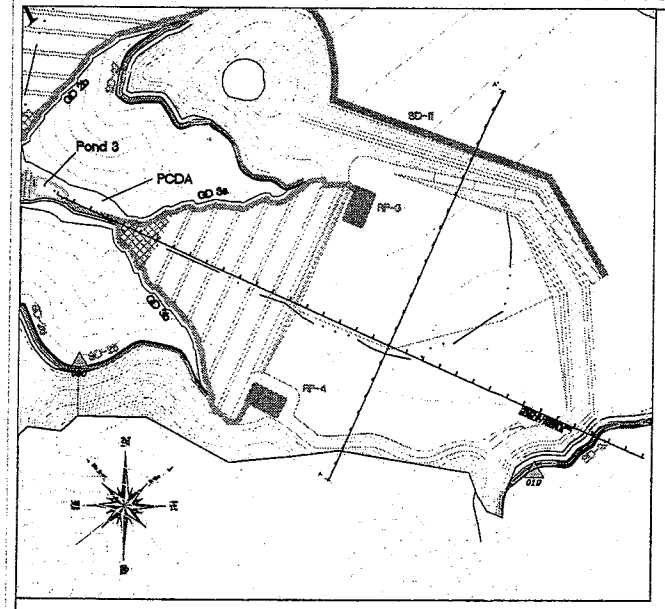
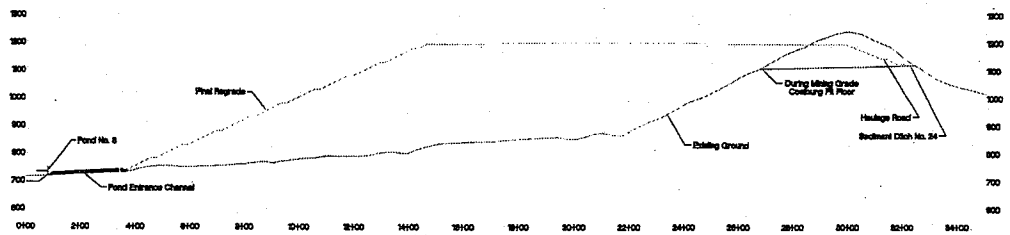


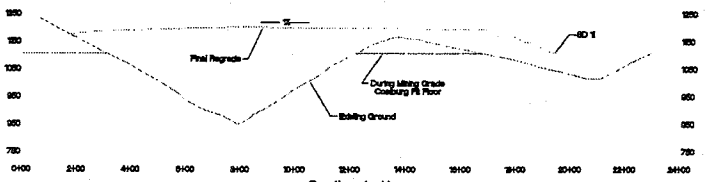
Figure 8 of 19



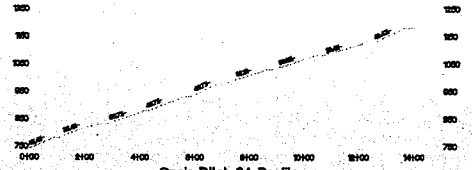
Plan View
1" = 300' Scale



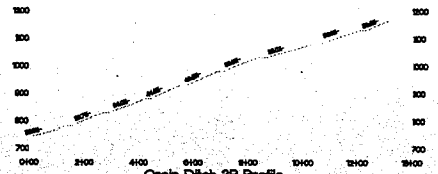
PROFILE VALLEY FILL NO. 3
1" = 300' Scale



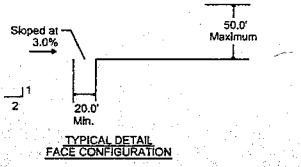
Section A-A'
1" = 300' Scale



Groin Ditch 3A Profile
1" = 200 Scale



Groin Ditch 3B Profile
1" = 200 Scale



TYPICAL DETAIL
FACE CONFIGURATION

LEGEND

- Existing/Original Ground
- During Mining Grade
- Coal Seam
- Proposed Fill
- VF Pond
- Critical Foundation Zone

TYPICAL SECTION - QD 3A
N.T.S.

TYPICAL SECTION - QD 3B
N.T.S.

DRAWN	
DATE	BY
11/08	DWM
REVISED	
DATE	BY
APPROVED	
DATE	BY

Coyote Coal Company LLC
P.O. Box 1060
Danville, WV 25053

Hill Fork Surface Mine
Valley Fill No. 3
Plan View, Profiles, and Sections
Attachment R-3A

Scott District
Julian Quadrangle
Boone County

TOPOGRAPHIC CONTOUR INTERVAL 20 - NAD 27	SCALE 0 200	FILE NO. VF3 Details	SHEET NO. 1 of 1

Path: M:\Mining\Mine Projects\Magnum\Coyote\Hill Fork\GIM\AttachedR

Prepared by: MICHAEL BAKER JR., INC.
5068 West Washington Street
Charleston, West Virginia 25313

Figure 9 of 19

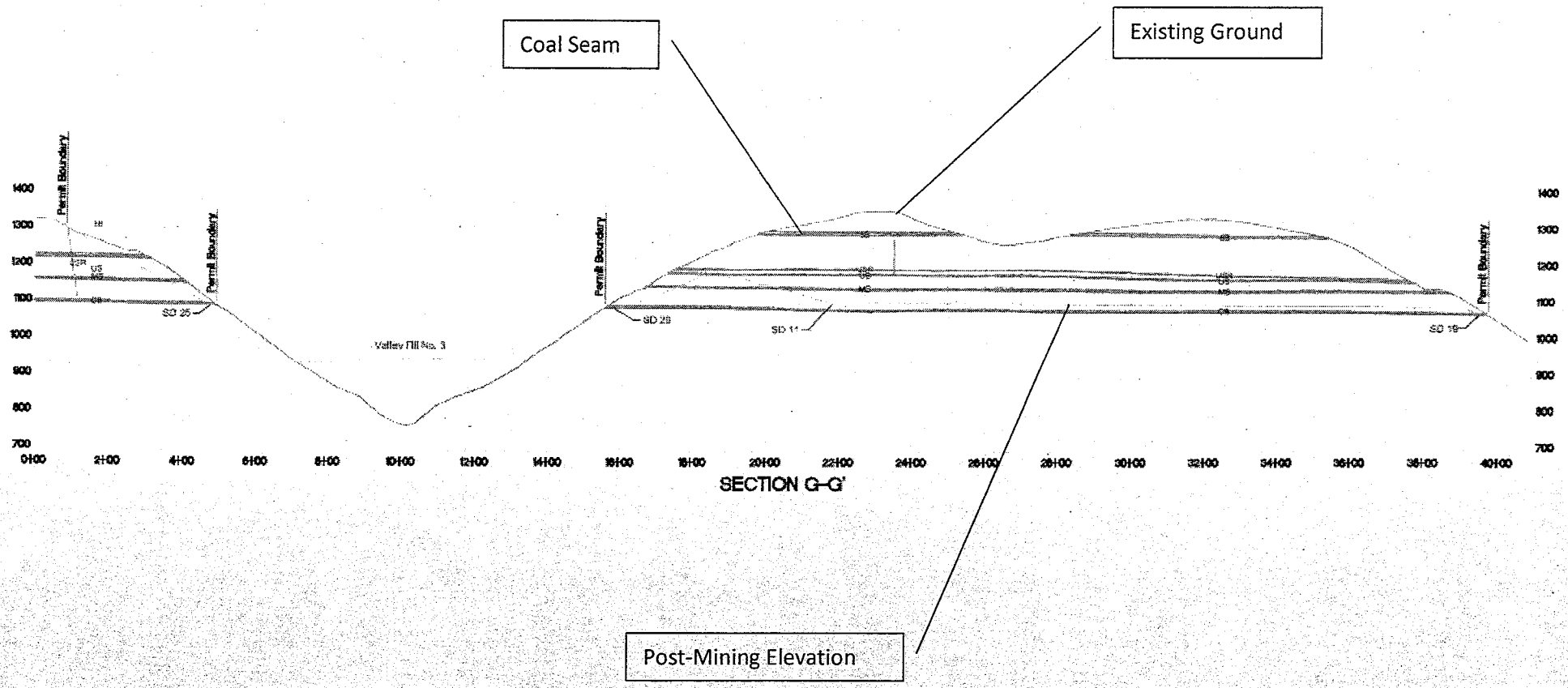


Figure 10 of 19

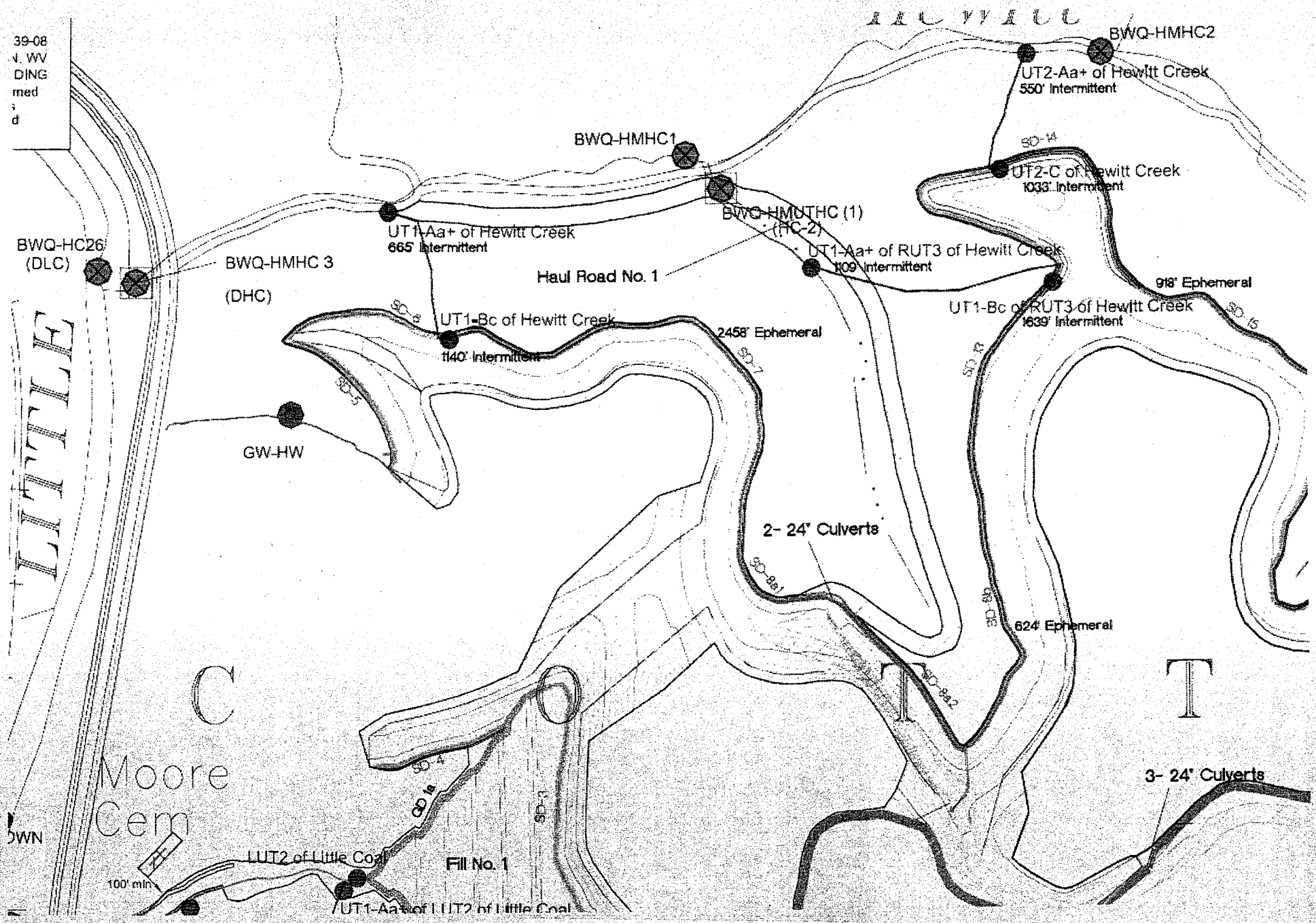
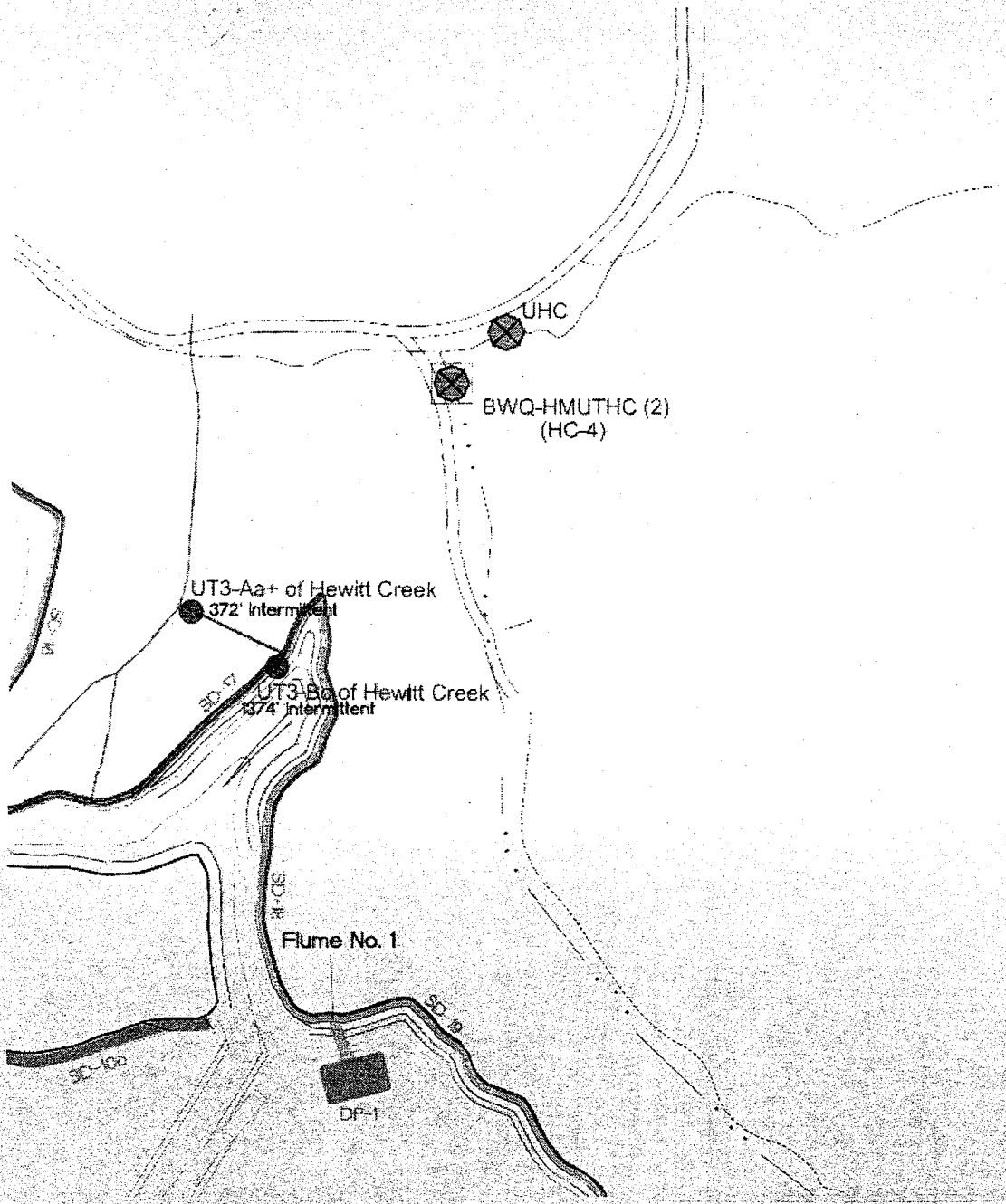


Figure 11 of 19



SD-10b	10b	24.1	
SD-11	11	62.8	
SD-13	13	13.5	
SD-14	14	6.8	
SD-15	15	9.6	
SD-16	16	11.6	
SD-17	17	13.2	
SD-18	18	7.0	
SD-19	19	17.3	
SD-20	20	1.0	
SD-21	21	10.4	
SD-22	22	14.9	
SD-23	23	2.1	
SD-24	24	5.0	
SD-25	25	6.7	
SD-26	26	6.3	
SD-27	27	10.2	

*NOTE Total Designed Storage Volume for Drainage Area 11 provided by combinati

Buck

Figure 12 of 19

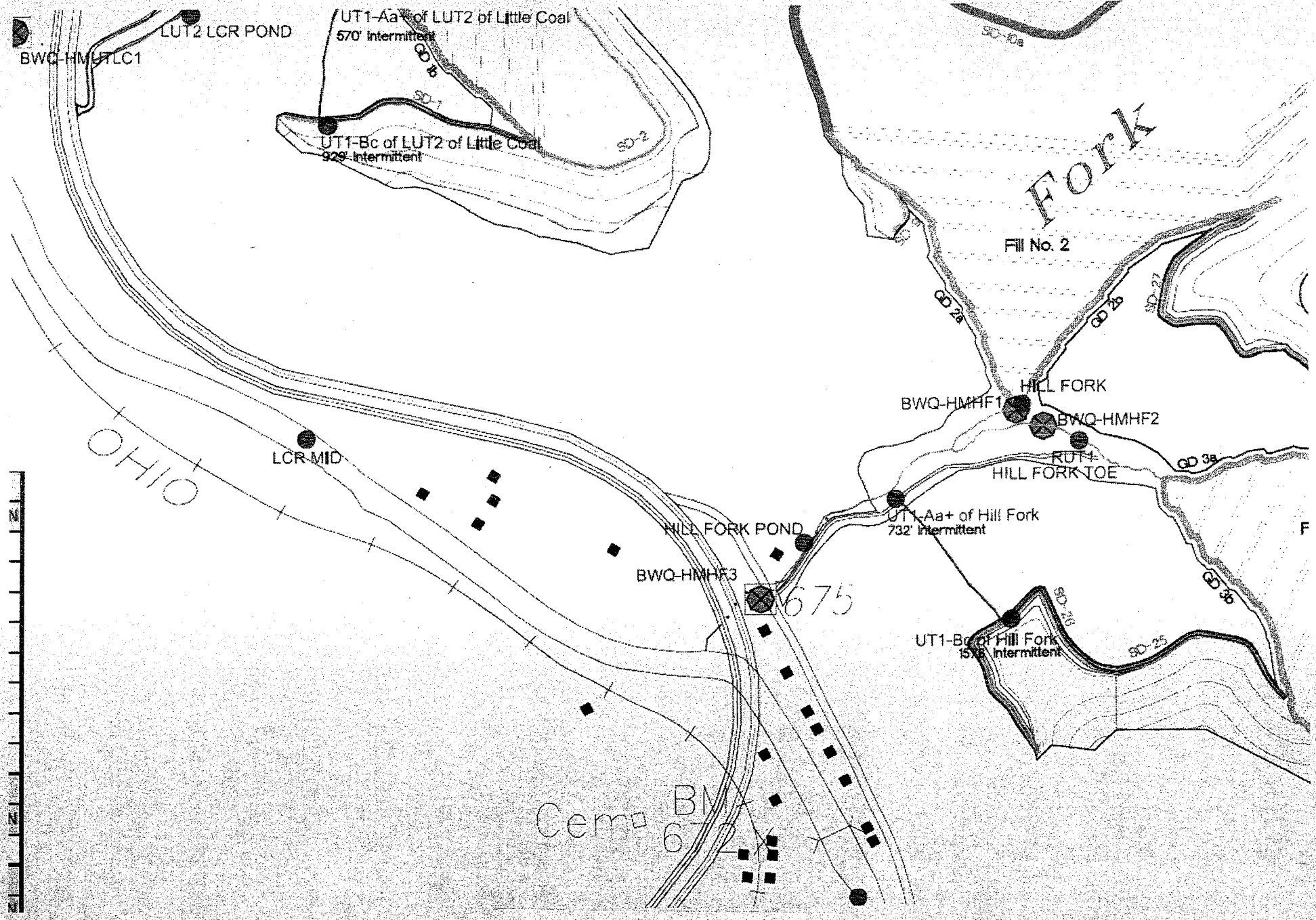


Figure 13 of 19

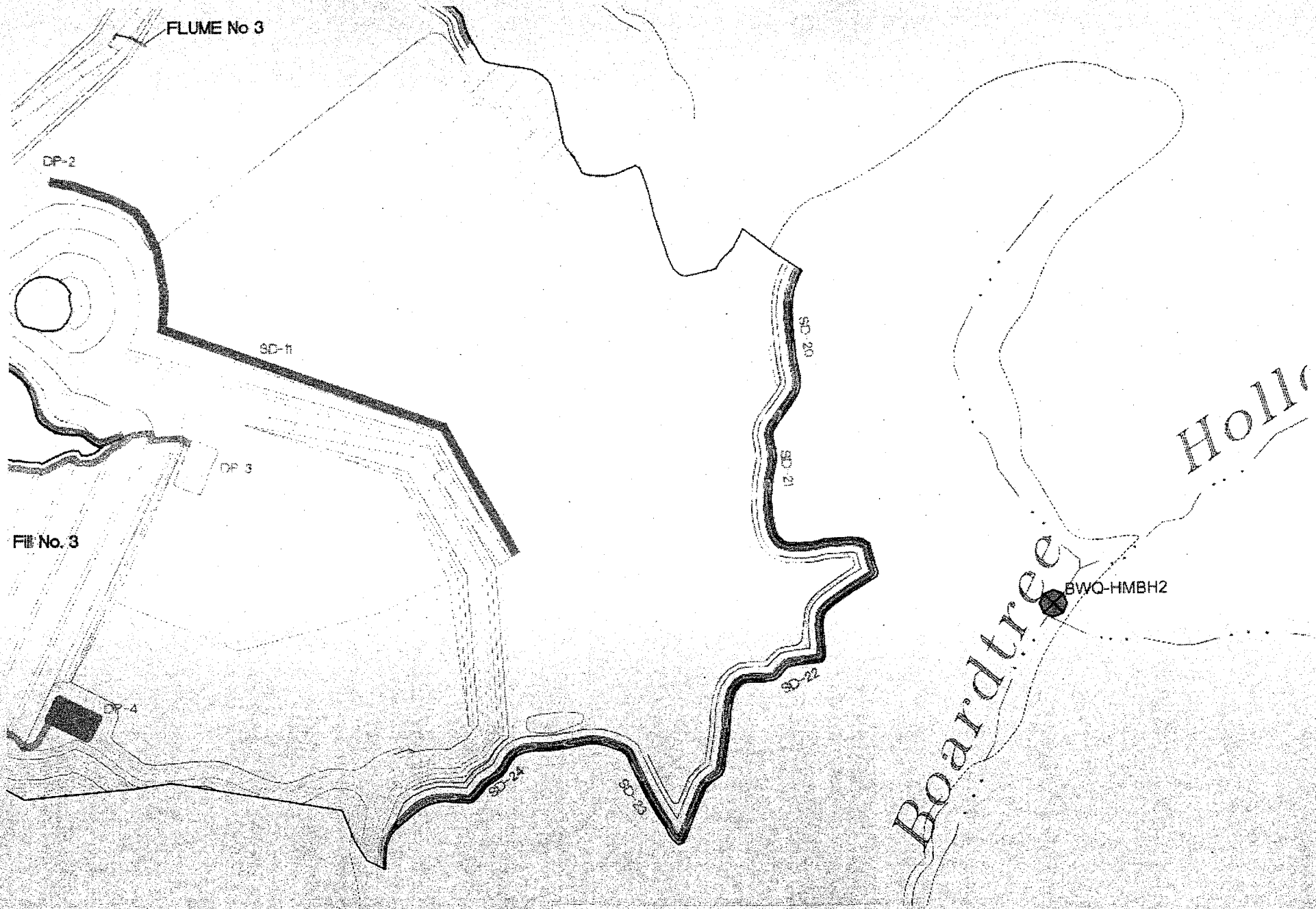


Figure 14 of 19

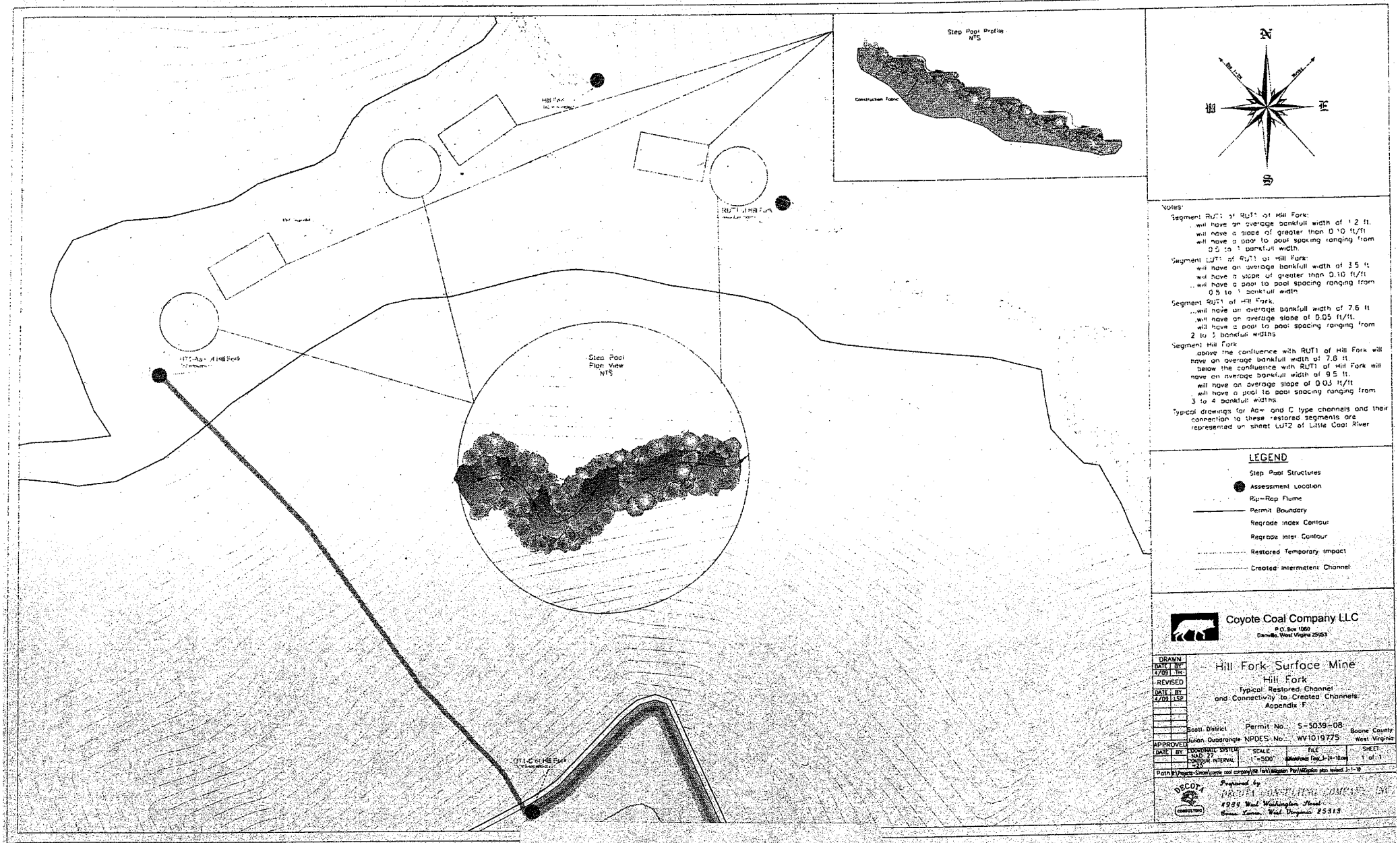


Figure 15 of 19

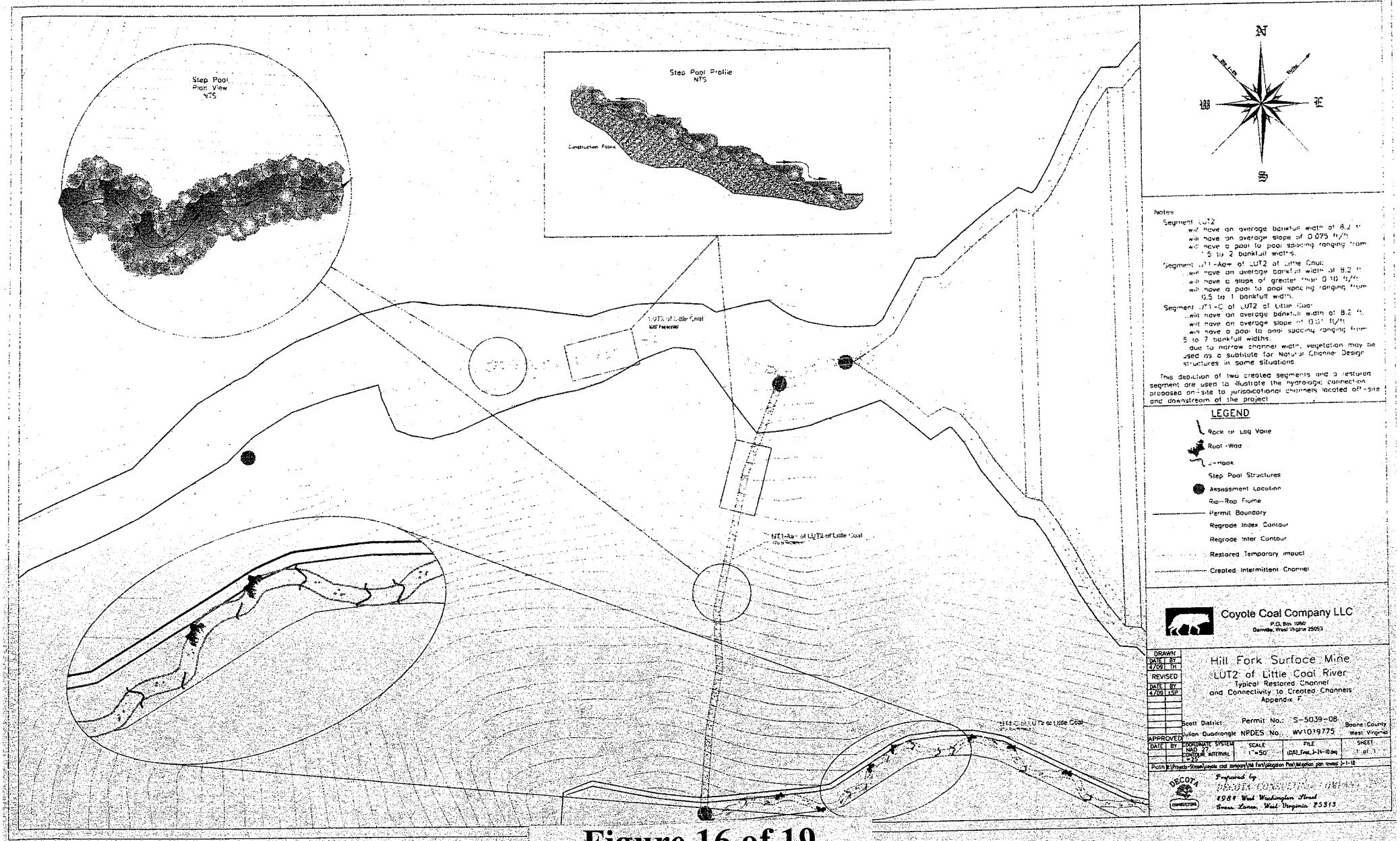


Figure 16 of 19

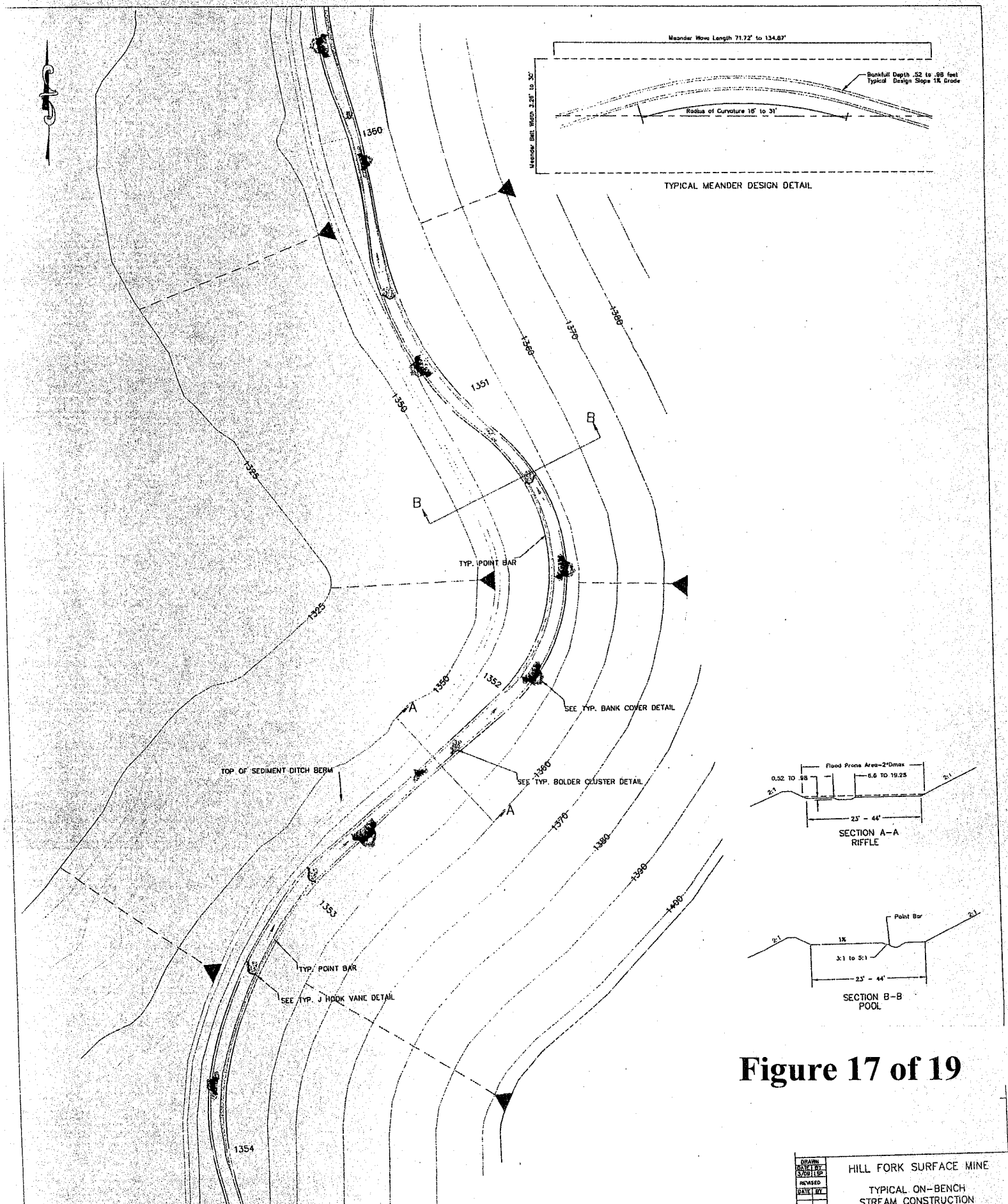


Figure 17 of 19

Segment ID	Meander Wave Length	Sinuosity	Rc (FT)	Slope (FT/FT)	Belt Width (FT)	Meander Width Ratio	W/D Ratio	Wbkf (FT)	Dbkf (FT)
UT1 C of Hewitt Creek	134.87	1.2	30.51	0.01	13.25	2.35	19.55	19.25	0.98
UT1 C of UT2 of Little Coal	83.17	1.2	18.75	0.01	27.00	3.28	13.35	8.22	0.62
UT1 Cb of Hill Fork	102.85	1.1	28.85	0.01	23.24	3.52	12.62	6.60	0.52
UT3 C of Hewitt Creek	71.72	1.2	16.24	0.01	22.91	2.90	13.26	7.89	0.59
UT1 C of UT3 of Hewitt Creek	98.04	1.2	22.51	0.01	31.66	2.70	13.54	11.50	0.85
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	25.70	3.23	12.54	6.90	0.64

HILL FORK SURFACE MINE

TYPICAL ON-BENCH STREAM CONSTRUCTION

SMCRA: S-5039-08 NPDES: WV1019775

Scott District Julian Quadrangle — Boone County West Virginia

DRAWN DATE 3/09 BY LSP — REVISED DATE BY — APPROVED DATE BY

TOPOGRAPHIC CONTOUR INTERVAL — SCALE 1" = 20' — FILE Constructed Stream — SHEET 1 of 1

Path: M:\Projects-Stream\Coyote Coal Co\Hill Fork\Mitigation Plan\drawings\

Prepared by DECOTA CONSULTING COMPANY, INC
4984 West Washington Street
Green Lane, WV 25315

Typical Riffle Cross Section
A–A'

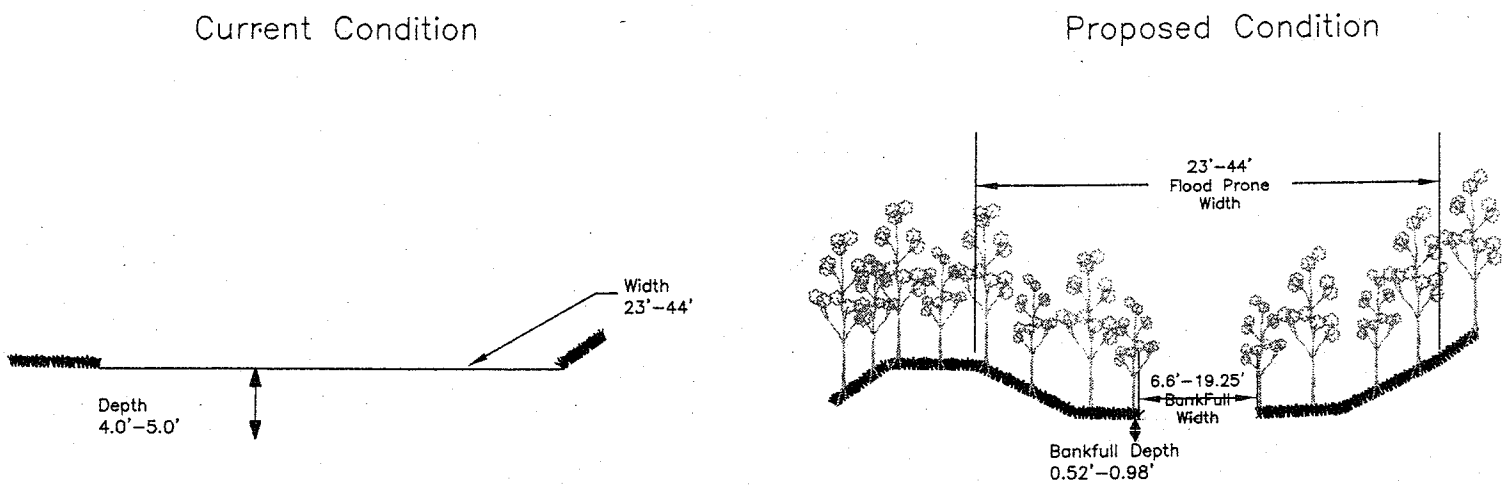


Figure 18 of 19

Coyote Coal Company LLC
P.O. Box 1060
Danville, West Virginia 25053

DRAWN	
DATE	BY
4/09	LSP
REVISED	
DATE	BY

Typical Riffle Cross Section
Hill Fork Surface Mine
On–bench Created C Type Channels

Permit No.: S–5039–08
Associated NPDES No.: WV1019775

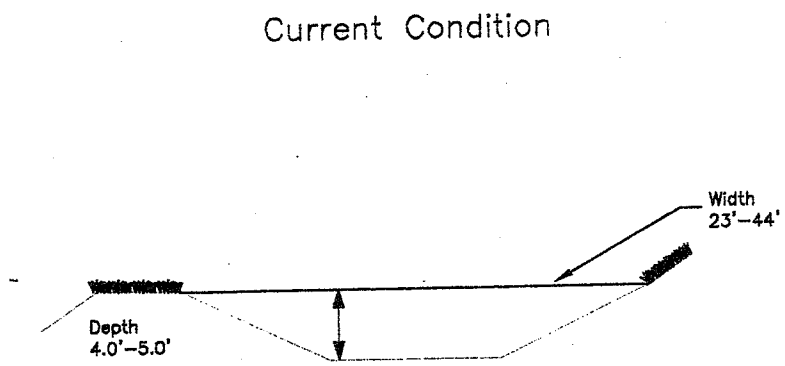
Appendix F

APPROVED		Scott District Julian Quadrangle			Boone County West Virginia
DATE	BY	NAD 83 TOPOGRAPHIC CONTOUR INTERVAL N/A	SCALE As Shown	FILE NO. Cross Sections.dwg	SHEET NO. 1 of 2

Path E:\Projects-Stream\coyote coal company\Hill Fork\Mitigation Plan\drawings\

Prepared by
DECOTA CONSULTING COMPANY, INC
4984 West Washington Street
Green Lanes, West Virginia 25313

Typical Pool Cross Section
B–B'



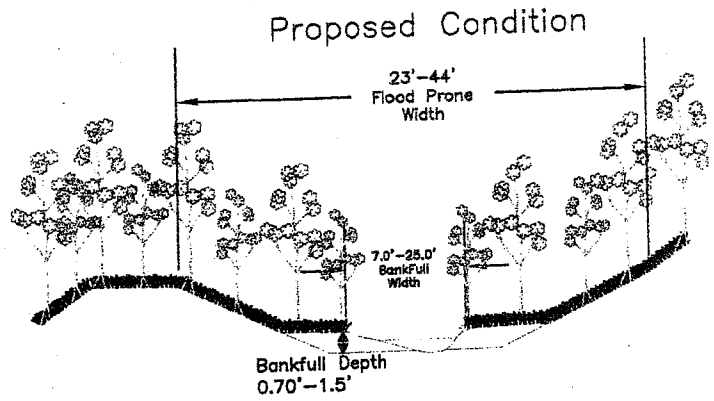


Figure 19 of 19

Coyote Coal Company LLC
P.O. Box 1060
Danville, West Virginia 25053

DRAWN		
DATE	BY	
4/09	LSP	
REVISED		
DATE	BY	

Typical Pool Cross Section
Hill Fork Surface Mine
On–bench Created C Type Channels

Permit No.: S–5039–08
Associated NPDES No.: WV1019775

Appendix F

Scott District
Julian Quadrangle

Boone County
West Virginia

APPROVED					
DATE	BY	MAP 63 TOPOGRAPHIC CONTOUR INTERVAL N/A	SCALE As Shown	FILE NO. Cross Section.dwg	SHEET NO. 2 of 2

Path: G:\Projects–Shared\coyote coal company\Hill Fork\Mitigation Plan\drawings\

Prepared by
DECOTA CONSULTING COMPANY, INC
1984 West Washington Street
Cross Lanes, West Virginia 25313