General Inspection Report

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State of Illinois

Dept. & Div. Illinois E.P.A. Inspector Joseph C. Wiesebrun (Signature) Date Inspected 3-26-80

Mine Name [redacted] Mine Company Old Ben Coal Company

IEPA Permit No. 1972-MD-1629-OP M & M Permit No. _____ County Franklin

General Location Approximately two miles northwest of Benton

RECLAMATION TYPE (Check Appropriate Type)
Mine includes Prime Land ___Yes/___No
Steep Slope Rule Applies ___Yes/___No
Coal Preparation ___Yes/___No
Not Applicable X

Reason for Visit: Routine

PERSONS CONTACTED:
Lindell Sneed - Engineer

RECEIVED
APR 24 1980
MINE POLLUTION CONTROL PROGRAM

PARAMETER CHECKLIST

1. Availability of: A___permits B___Plans

2. Imminent Danger to Public Health and Safety ___

3. Significant Imminent Environmental Harm ___

4. Signs and Markers: A. mine entrance B. perimeter C. blasting D. topsoil E. perimeter observance 1. 100' zone 2. 300' zone F. permit area correlation (G.) not investigated H. not applicable

5. Disposal Spoil and Waste Material Outside Pit or Direct Cast Site: (A.) gob disposal: (1) site capacity 2. covering 3. vegetation (B.) within permit area C. site approved D. slope of site E. steep slope rules F. valley fill or head of hollow fills: 1. permit area 2. location near ridge top 3. fill design 4. fill construction 5. steep slope rules 6. under drains 7. lateral drains 8. controlled placement 9. engineer inspection G. not investigated H. not applicable

6. Soil Handling: A. removal before other disturbance B. storage C. protection D. thickness E. root medium F. other overburden G. toxic material handling H. root medium satisfactory for top soil replacement (slope, thickness, texture) I. topsoil replaced J. grading current K. rills and gullies L. erosion control systems M. timely revegatation and mulching (N) not investigated O. not applicable

7. Prime Land: A. prime land determination B. soil horizon removal prior to other disturbance C. thickness removed D. approved horizon storage E. protection of stockpiles F. horizon replacement and thickness G. protection of replaced horizons H. grade I. not investigated (J) not applicable

8. General Water Quality and Hydrology: A. waterways B. grading (C.) vegetation D. toxic material E. horizontal bore holes F. sediment ponds: 1. size 2. structure 3. spillway 4. clean out 5. over 20' high or over 20 acres foot storage (___yes/___no) 6. seepage 7. structural weakness 8. discharge structure 9. chemical treatment system 9(a). permitted ___yes/___no (G.) discharge water quality: 1. met ___yes/___no H. buffer zone (100') observance I. zone markers (J.) NPDES permits required X yes/___no K. water quality: 1. met ___yes/___no L. not investigated M. not applicable

EPA Region 5 Records Ctr.
382771

9. Stream Channel or Other Water Diversion: A. temporary or permanent: 1. permitted ___yes/___no B. size adequacy C. stability D. gradient E. grade stability F. suspended solids G. sediment control H. channel design I. erosion control structures J. fish and wildlife protection K. vegetation L. removal of temporary structures M. structure removal procedures N. not investigated O. not applicable

10. Road Hydrology: A. culverts B. ditches C. location choice D. grade E. stream closeness F. ditch relief drains G. out slope drains H. construction material ___toxic/___non-toxic I. maintenance J. railroad spur hydrology K. vegetation L. not investigated M. not applicable

11. Impoundment Structures: A. M.H.S.A. construction observance B. coal waste in structure C. freeboard D. stability E. seepage F. engineer inspection G. dam water H. maintenance I. ditch and spillways J. changes in geometry of structure K. not investigated L. not applicable

12. Steep Slope Procedure: A. spoil on outslope B. debris C. highwall removal D. disturbance above highwall E. excess spoil F. instability of spoil and woody material G. not investigated H. not applicable

13. Preparation Plant: A. permitted ___yes/___no B. closed water system ___yes/___no C. discharge potential ___yes/___no D. NPDES permit required ___yes/___no E. raw coal shipped ✓yes/___no F. not investigated G. not applicable

LEGEND: ◯ = parameter inspected: ⊘ = comment or question on the paramter

NOTE: Items circled were considered during this investigation. If nothing under a major item was investigated, circle either "not investigated" or "not applicable".

___NO VIOLATIONS FOUND	✓SEE ATTACHMENT
ITEMS FOUND IN VIOLATION: PARAMETER ID	CIRCLE PARAMETER ID COMMENT OR ACTION TAKEN

86 - see attachment

General Comments - see attachment

Discussed continued submission of DMR's with Mr Sneed.

ATTACHMENT

FRANKLIN COUNTY - Mine #24
Old Ben Coal Company

8 G.: Two samples were collected during this visit, both samples were delivered to the Marion Environmental Protection Agency Laboratory for analysis and the following are the results of that analysis:

Sample #1: was taken from the creek north of the mine; this is the designated sampling point for NPDES Permit #IL000060, discharge (001). The water was clear and the weather was partly cloudy and cool.

LAB. #A19749

Iron	0.05 mg/l	Suspended Solids	7 mg/l
Manganese	0.37 mg/l	pH	7.3
Sulfate	235 mg/l	Alkalinity	0 mg/l
TS/EC	1400 mg/l	Acidity	15 mg/l
		R.O.E.	1270 mg/l

Sample #2: was taken at the spillway from the pond with NPDES #IL000060, discharge (003). The water was slightly turbid and the weather was partly cloudy and cool.

LAB. #A19750

Iron	1.9 mg/l	Suspended Solids	24 mg/l
Manganese	1.43 mg/l	pH	7.3
Sulfate	400 mg/l	Alkalinity	10 mg/l
TS/EC	2700 mg/l	Acidity	0 mg/l
		R.O.E.	2510 mg/l

GENERAL COMMENTS: During this visit, I observed a large pile of trash north of the mine office. Mr. Sneed told me that everything they use underground comes in some sort of container and that this material cannot be left underground so they have a disposal problem. He told me that they had recently contracted a private hauler to take out one hundred loads to determine the feasibility of using this as a permanent method of disposing of this material.

Joseph C. Wesselman
Joseph C. Wesselman
Environmental Protection Specialist

JCW:mg
cc: Dept. of Mines and Minerals
4/17/80

ENVIRONMENTAL PROTECTION AGENCY — DIVISION OF WATER POLLUTION CONTROL

WATER QUALITY AND WASTE TREATMENT WORKS EFFLUENT SAMPLING FORM

SAMPLE COLLECTED BY	LOCATION OF SAMPLING POINT
J. Wesselman.	Old Ben Coal Company Mine #24 NPDES #IL0000060 (001) taken from creek north of site.

BASIN	SUB-BASIN (IF NONE ENTER "DIRECT")	TRIBUTARY	MINOR TRIBUTARY
Big Muddy	Beaucoup Cr.	Sugar Cr.	

SEND ORIGINAL OF RESULTS TO: Mariom MPCP — SUB-BASIN OFFICE — ☐ PERFORMANCE MEASUREMENT SECTION SPRINGFIELD — SEND COPY OF RESULTS TO: ☐ EDP SERVICES SECTION SPRING

CARD COL. 1	1	CARD NO. 1	CARD COL. 1	2	CARD NO. 2	CARD COL. 1	3	CARD NO.
2-5	NCQ	BASIN CODE	6-7	01	PLANT OR STATION NO.	8-10	055	FIPS COUNTY CODE (USE ONLY FOR PLA
11-17	A 19749	LAB ID NO.	11-17	A 19749	LAB ID NO.	11-17	A 19749	LAB ID NO.
18	I	SAMPLE TYPE CODE (SEE LIST BELOW)	18	I	SAMPLE TYPE CODE	18	I	SAMPLE TYPE CODE

19-20	80	YEAR
21-22	03	MONTH
23-24	26	DAY
25-26	12	HOUR (NEAREST)
27	N	TIME OF DAY (A.P.N.)
28-30		WATER TEMPERATURE (DEG. F.)
31-33		FIELD D.O.
PH (UNITS)	43	34-36
TOTAL PHOSPHORUS		37-40
AVG BOD		41-44
C.O.D.		45-48
PHENOLS		49-52
		53-59
AMMONIA N		60-63
NITRATE + NITRITE AS N		64-66
ORGANIC N		67-69
TOTAL N		70-72
T.D.S. (E.C.)	1400	73-76
TOTAL SUSP. SOLIDS	7	77-80

FECAL COL. (NO./100ML)

ARSENIC		19-22
BARIUM		23-25
BORON		26-28
CADMIUM		29-32
CHROMIUM (HEX)		33-35
CHROMIUM (TRI)		36-38
CHROMIUM (TOTAL)		39-41
COPPER		42-45
CYANIDE		46-49
IRON (TOTAL)	<0.05	50-53
IRON (DISSOLVED)		54-56
LEAD		57-60
MANGANESE	0.37	61-63
MERCURY (MICROGM/L)		64-66
NICKEL		67-69
SELENIUM		70-72
SILVER		73-76
ZINC		77-79

PLANKTON (NO./ML)		19-23
FLUORIDE		24-26
CHLORIDE		27-30
SULFATE AS SO4	235	31-34
TOTAL SULFUR AS S		33-38
OIL		39-42
M.B.A.S.		43-46
CARBON CHLOROFORM EXTRACT		47-50
TURBIDITY (UNITS)		51-54
RESIDUE ON EVAPORATION	1240	55-58
VOLATILE SUSP. SOLIDS		59-62
COLOR (UNITS)		63-65
B. & O. to pH-8.3		66-68
ALKALINITY	~~1400~~ 0	69-71
TOTAL ACIDITY	15	72-74
FREE ACIDITY		75-77

OTHER TESTS REQUIRED — RESULT

ALL RESULTS EXPRESSED AS MG/L EXCEPT WHERE OTHERWISE STATED.

PHYSICAL OBSERVATIONS & COMMENTS (ABNORMAL COLOR, ODOR, FLOATING MATTER, OIL, SLUDGE, TURBIDITY, WEATHER) LOCATION OF SAMPLING POINT

Weather partly Cloudy and Cool, Water Clear.

SAMPLE TYPE CODES

- D = DOMESTIC WASTE ONLY
- I = INDUSTRIAL WASTE ONLY
- M = MIXED DOMESTIC & INDUSTRIAL WASTE
- S = STREAM, LAKE, OR RECEIVING WATER QUALITY
- T = MINE DRAINAGE OR WASTE
- X = OTHER OR TYPE UNKNOWN

SIGN BELOW FOR EFFLUENT SAMPLE

TRANSPORTED BY: Joseph Wesselman

RECEIVED BY: _____ TIME: _____

TRANSPORTED BY: _____

RECEIVED BY: _____ TIME: _____

FOR LABORATORY USE ONLY

SAMPLE RECEIVED BY: Kp dm EC

DATE REC'D: MAR 26 1980 — TIME REC'D: 3:30

DATE ANALYSES COMPLETED: APR 4 1980

DATE RESULTS FORWARDED: APR - 4 1980

TOTAL TESTS REQUESTED: 8 — TESTS RUN: [illegible]

LAB SECTION: [illegible] — SUPERVISOR: John [illegible]

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ENVIRONMENTAL PROTECTION AGENCY

DIVISION OF WATER POLLUTION CONTR

WATER QUAL[illegible] AND WASTE TREATMENT WORKS EF[illegible]UENT SAMPLING FORM

SAMPLE COLLECTED BY: J. Wesselman

LOCATION OF SAMPLING POINT: Old Ben Coal Company Mine #24, NPDES #IL0000060 (003) taken at spillway

BASIN: Big Muddy

SUB-BASIN (IF NONE ENTER "DIRECT"): Beaucoup Cr.

TRIBUTARY: Sugar Cr

MINOR TRIBUTARY:

SEND ORIGINAL OF RESULTS TO: Marion MPCP

SUB-BASIN OFFICE: ☐ PERFORMANCE MEASUREMENT SECTION SPRINGFIELD

SEND COPY OF RESULTS TO: ☐ EDP SERVICES SECTION SPRING

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AVG BOD		41-44
COD		45-48
PHENOLS		49-52
		53-59
AMMONIA N		60-63
NITRATE + NITRITE AS N		64-66
ORGANIC N		67-69
TOTAL N		70-72
TDS EC	2700	73-76
TOTAL SUSP SOL (1)	24	77-80

FECAL COL 1 (NO./100ML)

ARSENIC		19-22
BARIUM		23-25
BORON		26-28
CADMIUM		29-32
CHROMIUM (HEX)		33-35
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TURBIDITY (UNITS)		51-54
RESIDUE ON EVAPORATION	2510	55-58
VOLATILE SUSP. SOLIDS		59-62
COLOR (UNITS)		63-65
HARDNESS		66-68
ALKALINITY	10	69-71
TOTAL ACIDITY	0	72-74
FREE ACIDITY		75-77

OTHER TESTS REQUIRED — RESULTS

ALL RESULTS EXPRESSED AS MG/L EXCEPT WHERE OTHERWISE STATED.

PHYSICAL OBSERVATIONS & COMMENTS (ABNORMAL COLOR, ODOR, FLOATING MATTER, OIL, SLUDGE, TURBIDITY, WEATHER) LOCATION OF SAMPLING POINT: Weather Partly Cloudy and Cool, Water slightly turbid

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