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A P P E N D I X   C

Size Analysis Details

	<u>Code</u>	<u>Page</u>
1. Old Ben Mine #1 - West Pit - Indiana V Seam	OB-1-3	C- 2
2. Lynnville (Eby Pit) - Indiana V Seam	PB-28-30	C- 9
3. Lynnville Mine No. 1 - Indiana VI Seam	PB-31-33	C-16
4. Camp 11 Mine - Kentucky No. 11 Seam	TG-19-21	C-23
5. Hamilton Mine #1 - Kentucky No. 9 Seam	IC-35-37	C-30
6. Providence #1 - Kentucky No. 9 Seam	IC-38-40	C-37
7. No. 9 - Kentucky No. 9 Seam	IC-41-42	C-42
8. Marissa Mine - Illinois No. 6 Seam	PB-25-27	C-47
9. Wabash Mine - Illinois No. 5 Seam	AX-1-3	C-52
10. Delta Mine - Illinois No. 6 Seam	AX-4-5	C-57

2.1 Old Ben

APPENDIX C-1

Old Ben Mine #1 - West Pit - Indiana V Seam

- i. Run-of-Mine Coal (4" Rd. x 0)
- ii. Representative Run-of-Mine Coal
- iii. Crushed 4" Rd. x 2" Rd. to Pass 2" Rd. x 0
- iv. OB-1 - Crushed 2" Rd. x 0 Raw Coal - Total Product
- v. OB-2 - Plus 2" Rd. x 1/4" Rd. from crushed 2" Rd. x 0
- vi. OB-3 - Minus 1/4" Rd. x 0 from Crushed 2" Rd. x 0

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# COMMERCIAL TESTING & ENGINEERING CO.

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PLEASE ADDRESS ALL CORRESPONDENCE TO:  
P.O. BOX 752, HENDERSON, KY 42420  
OFFICE TEL. (502) 827-1187

July 10, 1981

TEXAS EASTERN SYNFUELS, INC.  
Houston, TX 77001

Sample identification  
by CT&E Company

Kind of sample  
reported to us Coal

Sample taken at Old Ben #1  
Pike County, Indiana

Sample taken by CT&E

Date sampled June 23, 1981

Date received June 23, 1981

Tri-State Synfuels Project  
Old Ben Coal Company  
Old Ben #1  
Run of Mine Coal

Analysis report no. 63-136156

## SCREEN ANALYSIS

	Percent Weight	Cumulative Percent Wt.
Retained on 3" Rd.	7.2	7.2
Retained on 2" Rd., passing 3" Rd.	15.7	22.9
Retained on 1" Rd., passing 2" Rd.	25.2	48.1
Retained on 1/2" Rd., passing 1" Rd.	19.1	67.2
Retained on 1/4" Rd., passing 1/2" Rd.	10.8	78.0
Retained on No. 8, passing 1/4" Rd.	8.7	86.7
Retained on No. 16, passing No. 8	5.1	91.8
Retained on No. 30, passing No. 16	3.6	95.4
Retained on No. 50, passing No. 30	2.0	97.4
Retained on No. 100, passing No. 50	1.7	99.1
Passing No. 100	0.9	100.0

Respectfully submitted,  
COMMERCIAL TESTING & ENGINEERING CO.



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LT/mc

L. W. TAYLOR III, Manager, Central Division

C-3  
Charter Member

OVER 40 BRANCH LABORATORIES STRATEGICALLY LOCATED IN PRINCIPAL COAL MINING AREAS,  
TIDEWATER, AND GREAT LAKES PORTS, AND RIVER LOADING FACILITIES

PAUL WEIR COMPANY

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OLD BEN #1 (INDIANA V)  
REPRESENTATIVE RUN-OF-MINE COAL

Size		Weight, %	Cumulative Weight, %	
Passing	Retained		Retained	Passing
-	+2½" Rd.	0	0	100.0
2½" Rd.	2" Rd.	9.9	9.9	100.0
2" Rd.	1½" Rd.	13.0	22.9	90.1
1½" Rd.	1" Rd.	14.3	37.2	77.1
1" Rd.	½" Rd.	20.6	57.8	62.8
½" Rd.	¼" Rd.	14.8	72.6	42.2
¼" Rd.	-	27.4	100.0	27.4

Cont.

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July 10, 1981

TEXAS EASTERN SYNFUELS, INC.  
Houston, TX 77001

Sample identification  
by  
CT&E Company

Kind of sample reported to us Coal  
Old Ben #1  
Sample taken at Pike County, Indiana  
Sample taken by CT&E  
Date sampled June 23, 1981  
Date received June 23, 1981

Tri-State Synfuels Project  
Old Ben Coal Company  
Old Ben #1  
Plus 2" Rd. Material  
Crushed to Pass 2" Rd.  
Represents 22.9% of Total Sample

Analysis report no. 63-136381

### SCREEN ANALYSIS

	<u>Percent Weight</u>	<u>Cumulative Percent Wt.</u>
Retained on 1" Rd., passing 2" Rd.	63.4	63.4
Retained on 1/2" Rd., passing 1" Rd.	19.4	82.8
Retained on 1/4" Rd., passing 1/2" Rd.	7.7	90.5
Retained on No. 8, passing 1/4" Rd.	4.2	94.7
Retained on No. 16, passing No. 8	2.3	97.0
Retained on No. 30, passing No. 16	1.3	98.3
Retained on No. 50, passing No. 30	0.7	99.0
Retained on No. 100, passing No. 50	0.6	99.6
Passing No. 100	0.4	100.0

Respectfully submitted,  
COMMERCIAL TESTING & ENGINEERING CO.



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L. W. TAYLOR III, Manager, Central Division

C-5.

Charter Member

OV 40 BRANCH LABORATORIES STRATEGICALLY LOCATED IN PRINCIPAL COAL MINING AREAS,  
TIDEWATER AND GREAT LAKES PORTS, AND RIVER LOADING FACILITIES

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OFFICE TEL. (502) 827-1187

September 18, 1981

TEXAS EASTERN SYNFUELS  
Houston, TX 77001

Sample identification  
by

CT&E Company

Kind of sample  
reported to us

Coal

Sample taken at Old Ben #1  
Pike County, Indiana

Sample taken by CT&E

Date sampled June 23, 1981

Date received June 23, 1981

Tri-State Synfuels Project  
Old Ben Coal Company  
Old Ben #1  
Crushed Raw Coal - Total Product  
OBl

Analysis report no. 63-136156

### SCREEN ANALYSIS

	<u>Percent Weight</u>	<u>Cumulative Percent Wt.</u>
Retained on 1" Rd., passing 2" Rd.	24.4	24.4
Retained on 1/2" Rd., passing 1" Rd.	23.0	47.4
Retained on 1/4" Rd., passing 1/2" Rd.	17.1	64.5
Retained on No. 8, passing 1/4" Rd.	12.9	77.4
Retained on No. 16, passing No. 8	8.3	85.7
Retained on No. 30, passing No. 16	6.3	92.0
Retained on No. 50, passing No. 30	3.5	95.5
Retained on No. 100, passing No. 50	2.9	98.4
Passing No. 100	1.6	100.0

Respectfully submitted,  
COMMERCIAL TESTING & ENGINEERING CO.



L. W. TAYLOR III, Manager, Central Division

C-6.

Charter Member

LT/mc

OVER 40 BRANCH LABORATORIES STRATEGICALLY LOCATED IN PRINCIPAL COAL MINING AREAS,  
TIDEWATER AND GREAT LAKES PORTS, AND RIVER LOADING FACILITIES

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February 3, 1982

► TEXAS EASTERN SYNFUELS  
Houston, TX 77001

Sample identification  
by  
CT&E Company

Kind of sample  
reported to us Coal

Sample taken at Old Ben #1 Mine  
Spurgeon, Indiana

Sample taken by CT&E

Date sampled June 23, 1981

Date received June 23, 1981

Tri-State Synfuels Project  
Old Ben Coal Company  
Old Ben #1  
Plus 1/4" Rd. Screen Fraction  
64.5% of Total Product  
OB2

Analysis report no. 63-136157

### SCREEN ANALYSIS

	<u>Percent Weight</u>	<u>Cumulative Percent Wt.</u>
Retained on 1" Rd., passing 2" Rd.	37.8	37.8
Retained on 1/2" Rd., passing 1" Rd.	35.7	73.5
Retained on 1/4" Rd., passing 1/2" Rd.	26.5	100.0

Respectfully submitted,  
COMMERCIAL TESTING & ENGINEERING CO.



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L.W. TAYLOR III, Manager, Central Division

C-7  
Charter Member

OVER 40 BRANCH LABORATORIES STRATEGICALLY LOCATED IN PRINCIPAL COAL MINING AREAS,  
TIDEWATER AND GREAT LAKES PORTS, AND RIVER LOADING FACILITIES



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P.O. BOX 752, HENDERSON, KY 42420  
OFFICE TEL. (502) 827-1187

February 3, 1982

TEXAS EASTERN SYNFUELS, INC.  
Houston, TX 77001

Sample identification  
by CT&E Company

Kind of sample  
reported to us Coal

Sample taken at Old Ben #1 Mine  
Spurgeon, Indiana

Sample taken by CT&E

Date sampled June 23, 1981

Date received June 23, 1981

Tri-State Synfuels Project  
Old Ben Coal Company  
Old Ben #1  
Minus 1/4" Rd. Screen Fraction  
35.5% of Total Product  
OB3

Analysis report no. 63-136158

## SCREEN ANALYSIS

	Percent Weight	Cumulative Percent Wt.
Retained on No. 8, passing 1/4" Rd.	36.3	36.3
Retained on No. 16, passing No. 8	23.4	59.7
Retained on No. 30, passing No. 16	17.7	77.4
Retained on No. 50, passing No. 30	9.9	87.3
Retained on No. 100, passing No. 50	8.2	95.5
Passing No. 100	4.5	100.0

Respectfully submitted,  
COMMERCIAL TESTING & ENGINEERING CO.



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L. W. TAYLOR III, Manager, Central Division

C-8.  
Charter Member

OVER 40 BRANCH LABORATORIES STRATEGICALLY LOCATED IN PRINCIPAL COAL MINING AREAS,  
TIDEWATER AND GREAT LAKES PORTS, AND RIVER LOADING FACILITIES

## 2.2 Lynnville

PAUL WEIR COMPANY

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APPENDIX C-2

Lynnville (Eby Pit) - Indiana V Seam

- i. Run-of-Mine Coal (5" Rd. x 0)
- ii. Representative Run-of-Mine Coal
- iii. Crushed 5" Rd. x 2" Rd. to Pass 2" Rd. x 0
- iv. PB-28 - Crushed 2" Rd. x 0 Raw Coal - Total Product
- v. PB-29 - Plus 2" Rd. x 1/4" Rd. from Crushed 2" Rd. x 0
- vi. PB-30 - Minus 1/4" Rd. x 0 from Crushed 2" Rd. x 0
- vii. — - Natural 2" Rd. x 0 from Run-of-Mine Coal

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SOUTH HOLLAND, IL 60473  
OFFICE TEL. (312) 264-1173

TEXAS EASTERN SYNFUELS  
Houston, TX 77001

February 5, 1982

Sample identification  
by CT&E Company

Kind of sample reported to us Coal, Indiana No. V Seam  
Sample taken at Lynnville Mine  
Warrick County, Indiana  
Sample taken by CT&E  
Date sampled June 15, 1981  
Date received June 15, 1981

Tri-State Synfuels Project  
Peabody Coal Company  
Lynnville Mine  
Raw Run of Mine Coal.

Analysis report no. 71-74330

## SCREEN ANALYSIS

	<u>Percent Weight</u>	<u>Cumulative Percent Wt.</u>
Retained on 6" Rd.,	2.0	2.0
Retained on 5" Rd., passing 6" Rd.	1.7	3.7
Retained on 4" Rd., passing 5" Rd.	3.1	6.8
Retained on 3" Rd., passing 4" Rd.	5.5	12.3
Retained on 2" Rd., passing 3" Rd.	11.0	23.3
Retained on 1" Rd., passing 2" Rd.	21.0	44.3
Retained on 1/2" Rd., passing 1" Rd.	17.4	61.7
Retained on 1/4" Rd., passing 1/2" Rd.	13.9	75.6
Retained on No. 8, passing 1/4" Rd.	8.0	83.6
Retained on No. 16, passing No. 8	6.6	90.2
Retained on No. 30, passing No. 16	3.8	94.0
Retained on No. 50, passing No. 30	2.4	96.4
Retained on No. 100, passing No. 50	1.6	98.0
Passing No. 100	2.0	100.0

Respectfully submitted,  
COMMERCIAL TESTING & ENGINEERING CO.

R. A. HOUSER, Manager, Midwest Division



C-10  
Charter Member

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PAUL WEIR COMPANY

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LYNNVILLE (INDIANA V)  
REPRESENTATIVE RUN-OF-MINE COAL

Size		Weight, %	Cumulative Weight, %	
Passing	Retained		Retained	Passing
-	2" Rd.	16.5	16.5	100.0
2" Rd.	1½" Rd.	8.6	25.1	83.5
1½" Rd.	1" Rd.	11.4	36.5	74.9
1" Rd.	¾" Rd.	7.2	43.7	63.5
¾" Rd.	½" Rd.	11.1	54.8	56.3
½" Rd.	¼" Rd.	17.1	71.9	45.2
¼" Rd.	No. 10	15.3	87.2	28.1
No. 10	No. 28	5.3	92.5	12.8
No. 28	No. 50	1.9	94.4	7.5
No. 50	No. 100	1.4	95.8	5.6
No. 100	-	4.2	100.0	4.2

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TO: Martial P. Corriveau

June 29, 1981

RE: Project 2753-B

Lynnville #V Seam

2. Screen Analysis of total raw coal sample

Passing	Retained On	% Weight	
	6"	2.0	
6"	5"	1.7	
5"	4"	3.1	----- 23.3%
4"	3"	5.5	
3"	2"	11.0	
2"	1"	21.0	-----
1"	1/2"	17.4	
1/2"	1/4"	13.9	
1/4"	No. 8	8.0	
8"	No. 16	6.6	----- 76.7%
16"	No. 30	3.8	
30"	No. 50	2.4	
50"	No. 100	1.6	
No. 100		2.0	
		100.0	

✓ 11 Screen Analysis of natural 2" x 0 (76.7% of total sample)

		% of 2" x 0	% of +6" x 0
2"	1"	27.4	21.0
1"	1/2"	22.7	17.4
1/2"	1/4"	18.1	13.9
1/4"	No. 8	10.5	8.0
8"	No. 16	8.6	6.6
16"	No. 30	4.9	3.8
30"	No. 50	3.1	2.4
50"	No. 100	2.1	1.6
No. 100		2.6	2.0
		100.0	76.7

11 Screen Analysis of +2" crushed to 2" x 0 (23.3% of total sample)

2"	1"	13.7	3.2
1"	1/2"	32.5	7.6
1/2"	1/4"	29.5	6.9
1/4"	No. 8	8.8	2.0
8"	No. 16	7.7	1.8
16"	No. 30	3.6	0.8
30"	No. 50	2.0	0.5
50"	No. 100	1.1	0.3
No. 100		1.1	0.2
		100.0	23.3

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SOUTH HOLLAND, IL 60473  
OFFICE TEL (312) 284-1173

TEXAS EASTERN SYNFUELS  
Houston, TX 77001

February 5, 1982

Sample identification  
by CT&E Company

Kind of sample reported to us	Coal, Indiana No. V Seam	Tri-State Synfuels Project Peabody Coal Company Lynnville, Mine Crushed Raw Coal. Total Product. PB-28
Sample taken at	Lynnville Mine	
Sample taken by	Warrick County, Indiana CT&E	
Date sampled	June 15, 1981	
Date received	June 15, 1981	

Analysis report no. 71-74330

## SCREEN ANALYSIS

	<u>Percent Weight</u>	<u>Cumulative Percent Wt.</u>
Retained on 1" Rd., passing 2" Rd.	25.4	25.4
Retained on 1/2" Rd., passing 1" Rd.	20.4	45.8
Retained on 1/4" Rd., passing 1/2" Rd.	15.8	61.6
Retained on No. 8, passing 1/4" Rd.	12.5	74.1
Retained on No. 16, passing No. 8	9.0	83.1
Retained on No. 30, passing No. 16	6.6	89.7
Retained on No. 50, passing No. 30	3.9	93.6
Retained on No. 100, passing No. 50	2.5	96.1
Passing No. 100	3.9	100.0

Respectfully submitted,  
COMMERCIAL TESTING & ENGINEERING CO.

R. A. HOUSER, Manager, Midwest Division



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OFFICE TEL. (312) 264-1173

► TEXAS EASTERN SYNFUELS  
Houston, TX 77001

February 5, 1982

Sample Identification  
by CT&E Company

Kind of sample reported to us	Coal, Indiana No. V Seam	Tri-State Synfuels Project Peabody Coal Company Lynnville Mine Plus 1/4" Rd. screen fraction. PB-29
Sample taken at	Lynnville, Mine Warrick County, Indiana	
Sample taken by	CT&E	
Date sampled	June 15, 1981	
Date received	June 15, 1981	

Analysis report no. 71-74331

## SCREEN ANALYSIS

	<u>Percent Weight</u>	<u>Cumulative Percent Wt.</u>
Retained on 1" Rd., passing 2" Rd.	41.2	41.2
Retained on 1/2" Rd., passing 1" Rd.	33.1	74.3
Retained on 1/4" Rd., passing 1/2" Rd.	25.7	100.0

Respectfully submitted,  
COMMERCIAL TESTING & ENGINEERING CO.

*R. A. Houser*  
R. A. HOUSER, Manager, Midwest Division C-14.



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► TEXAS EASTERN SYNFUELS  
Houston, TX 77001

February 5, 1982

Sample Identification  
by CT&E Company

Kind of sample Coal, Indiana No. V Seam  
reported to us  
  
Sample taken at Lynnville, Mine  
Warrick County, Indiana  
Sample taken by CT&E  
  
Date sampled June 15, 1981  
  
Date received June 15, 1981

Tri-State Synfuels Project  
Peabody Coal Company  
Lynnville Mine  
Minus 1/4" Rd. screen fraction.  
PB-30

Analysis report no. 71-74332

## SCREEN ANALYSIS

	<u>Percent Weight</u>	<u>Cumulative Percent Wt.</u>
Retained on No. 8, passing 1/4" Rd.	32.6	32.6
Retained on No. 16, passing No. 8	23.4	56.0
Retained on No. 30, passing No. 16	17.1	73.1
Retained on No. 50, passing No. 30	83.3	93.6
Retained on No. 100, passing No. 50	6.5	89.8
Passing No. 100	10.2	100.0

Respectfully submitted,  
COMMERCIAL TESTING & ENGINEERING CO.

*R. A. Houser*

R. A. HOUSER, Manager, Midwest Division C-25.



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2.3 Lynnville 1

PAUL WEIR COMPANY

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APPENDIX C-3

Lynnville Mine No. 1 - Indiana VI Seam

- i. Run-of-Mine Coal (10" Rd. x 0)
- ii. Representative Run-of-Mine Coal
- iii. Crushed 5" Rd. x 2" Rd. to Pass 2" Rd. x 0
- iv. PB-31 - Crushed 2" Rd. x 0 Raw Coal - Total Product
- v. PB-32 - Plus 2" Rd. x 1/4" Rd. from Crushed 2" Rd. x 0
- vi. PB-33 - Minus 1/4" Rd. x 0 from Crushed 2" Rd. x 0
- vii. — - Natural 2" Rd. x 0 from Run-of-Mine Coal

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## COMMERCIAL TESTING & ENGINEERING CO.

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SOUTH HOLLAND, IL 60473  
OFFICE TEL (312) 254-1173

TEXAS EASTERN SYNFUELS  
Houston, TX 77001

February 5, 1982

Sample identification  
by CT&E Company

Kind of sample reported to us Coal, Indiana No. VI Seam  
Sample taken at Lynnville Mine  
Sample taken by Warrick County, Indiana  
CT&E  
Date sampled June 16, 1981  
Date received June 16, 1981

Tri-State Synfuels Project  
Peabody Coal Company  
Lynnville Mine  
Raw Run of Mine Coal.

Analysis report no. 71-74301

### SCREEN ANALYSIS

	Percent Weight	Cumulative Percent Wt.
Retained on 10" Rd.	2.2	2.2
Retained on 9" Rd., passing 10" Rd.	4.7	6.9
Retained on 8" Rd., passing 9" Rd.	1.6	8.5
Retained on 7" Rd., passing 8" Rd.	1.4	9.9
Retained on 6" Rd., passing 7" Rd.	3.9	13.8
Retained on 5" Rd., passing 6" Rd.	5.3	19.1
Retained on 4" Rd., passing 5" Rd.	7.6	26.7
Retained on 3" Rd., passing 4" Rd.	8.0	34.7
Retained on 2" Rd., passing 3" Rd.	10.7	45.4
Retained on 1" Rd., passing 2" Rd.	20.0	65.4
Retained on 1/2" Rd., passing 1" Rd.	12.3	77.7
Retained on 1/4" Rd., passing 1/2" Rd.	8.7	86.4
Retained on No. 8, passing 1/4" Rd.	3.7	90.1
Retained on No. 16, passing No. 8	5.0	95.1
Retained on No. 30, passing No. 16	2.0	97.1
Retained on No. 50, passing No. 30	1.1	98.2
Retained on No. 100, passing No. 50	0.7	98.9
Passing No. 100	1.1	100.0

Respectfully submitted,  
COMMERCIAL TESTING & ENGINEERING CO.



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R. A. HOUSER, Manager, Midwest Division C-17.

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PAUL WEIR COMPANY

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LYNNVILLE (INDIANA VI)  
REPRESENTATIVE RUN-OF-MINE COAL

Size		Weight, %	Cumulative Weight, %	
Passing	Retained		Retained	Passing
-	5" Rd.	2.0	2.0	100.0
5" Rd.	4" Rd.	5.0	7.0	98.0
4" Rd.	2" Rd.	19.9	26.9	93.0
2" Rd.	1½" Rd.	11.7	38.6	73.1
1½" Rd.	1" Rd.	12.5	51.1	61.4
1" Rd.	¾" Rd.	7.7	58.8	48.9
¾" Rd.	½" Rd.	8.7	67.5	41.2
½" Rd.	¼" Rd.	11.6	79.1	32.5
¼" Rd.	No. 10	9.7	88.8	20.9
No. 10	No. 28	1.4	90.2	11.2
No. 28	No. 50	1.6	91.7	9.8
No. 50	No. 100	1.0	92.7	8.3
No. 100	-	7.3	100.0	7.3

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TO: Martial P. Corriveau

June 29, 1981

RE: Project 2753-B

Lynnville #VI Seam

Screen Analysis of total raw coal sample

<u>Passing</u>	<u>Retained On</u>	<u>% Weight</u>
	10"	2.2
10"	9"	4.7
9"	8"	1.6
8"	7"	1.4
7"	6"	3.9
6"	5"	5.3
5"	4"	7.6
4"	3"	8.0
3"	2"	10.7
2"	1"	20.0
1"	1/2"	12.3
1/2"	1/4"	8.7
1/4"	No. 8	3.7
8"	No. 16	5.0
16"	No. 30	2.0
30"	No. 50	1.1
50"	No. 100	0.7
No. 100		1.1
		<u>100.0</u>

Screen Analysis of natural 2" x 0 (54.6% of total sample)

		<u>% of 2" x 0</u>	<u>% of +10" x 0</u>
2	1"	36.6	20.0
1	1/2"	22.5	12.3
1/2	1/4"	15.9	8.7
1/4	No. 8	6.8	3.7
8	No. 16	9.2	5.0
16	No. 30	3.7	2.0
30	No. 50	2.1	1.1
50	No. 100	1.2	0.7
No. 100		2.0	1.1
		<u>100.0</u>	<u>54.6</u>

Screen Analysis of +2" crushed to 2" x 0 (45.4% of total sample)

2	1"	9.6	4.3
1	1/2"	30.2	13.7
1/2	1/4"	21.3	9.7
1/4	No. 8	12.3	5.6
8	No. 16	14.1	6.4
16	No. 30	5.5	2.5
30	No. 50	3.1	1.4
50	No. 100	1.9	0.9
No. 100		2.0	0.9
		<u>100.0</u>	<u>45.4</u>

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OFFICE TEL (312) 264-1173

TEXAS EASTERN SYNFUELS  
Houston, TX 77001

February 5, 1982

Sample identification  
by CT&E Company

Kind of sample reported to us	Coal, Indiana No. VI Seam	Tri-State Synfuels Project Peabody Coal Company Lynnville, Mine Crushed Raw Coal. Total Product. PB-31
Sample taken at	Lynnville Mine Warrick County, Indiana	
Sample taken by	CT&E	
Date sampled	June 16, 1981	
Date received	June 16, 1981	

Analysis report no. 71-74301

## SCREEN ANALYSIS

	<u>Percent Weight</u>	<u>Cumulative Percent Wt.</u>
Retained on 1" Rd., passing 2" Rd.	25.0	25.0
Retained on 1/2" Rd., passing 1" Rd.	24.0	49.0
Retained on 1/4" Rd., passing 1/2" Rd.	17.4	66.4
Retained on No. 8, passing 1/4" Rd.	13.1	79.5
Retained on No. 16, passing No. 8	8.0	87.5
Retained on No. 30, passing No. 16	5.3	92.8
Retained on No. 50, passing No. 30	3.3	96.1
Retained on No. 100, passing No. 50	1.9	98.0
Passing No. 100	2.0	100.0

Respectfully submitted,  
COMMERCIAL TESTING & ENGINEERING CO.

R. A. HOUSER, Manager, Midwest Division C-20.



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OFFICE TEL (312) 264-1173

► TEXAS EASTERN SYNFUELS  
Houston, TX 77001

February 5, 1982

Sample Identification  
by CT&E Company

Kind of sample reported to us Coal, Indiana No. VI Seam  
Sample taken at Lynnville, Mine  
Sample taken by Warrick County, Indiana  
CT&E  
Date sampled June 16, 1981  
Date received June 16, 1981

Tri-State Synfuels Project  
Peabody Coal Company  
Lynnville Mine  
Plus 1/4" Rd. screen fraction.  
PB-32

Analysis report no. 71-74302

## SCREEN ANALYSIS

	<u>Percent Weight</u>	<u>Cumulative Percent Wt.</u>
Retained on 1" Rd., passing 2" Rd.	37.7	37.7
Retained on 1/2" Rd., passing 1" Rd.	36.1	73.8
Retained on 1/4" Rd., passing 1/2" Rd.	26.2	100.0

Respectfully submitted,  
COMMERCIAL TESTING & ENGINEERING CO.

*R. A. Houser*  
R. A. HOUSER, Manager, Midwest Division C-21.



Charter Member

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TEXAS EASTERN SYNFUELS  
Houston, TX 77001

February 5, 1982

Sample identification  
by CT&E Company

Kind of sample reported to us Coal, Indiana No. VI Seam  
Sample taken at Lynnville, Mine  
Warrick County, Indiana  
Sample taken by CT&E  
Date sampled June 16, 1981  
Date received June 16, 1981

Tri-State Synfuels Project  
Peabody Coal Company  
Lynnville Mine  
Minus 1/4" Rd. screen fraction.  
PB-33

Analysis report no. 71-74303

## SCREEN ANALYSIS

	<u>Percent Weight</u>	<u>Cumulative Percent Wt.</u>
Retained on No. 8, passing 1/4" Rd.	39.0	39.0
Retained on No. 16, passing No. 8	23.8	62.8
Retained on No. 30, passing No. 16	15.8	78.6
Retained on No. 50, passing No. 30	9.8	88.4
Retained on No. 100, passing No. 50	5.7	94.1
Passing No. 100	5.9	100.0

Respectfully submitted,  
COMMERCIAL TESTING & ENGINEERING CO.

*R. A. Houser*

R. A. HOUSER, Manager, Midwest Division C-22.



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db

2.4 Camp 11

PAUL WEIR COMPANY

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APPENDIX C-4

Camp 11 Mine - Kentucky No. 11 Seam

- i. Run-of-Mine Coal (3" Rd. x 0)
- ii. Representative Run-of-Mine Coal
- iii. Crushed 3" Rd. x 2" Rd. to Pass 2" Rd. x 0
- iv. TG-19 - Crushed 2" Rd. x 0 Raw Coal - total Product
- v. TG-20 - Plus 2" Rd. x 1/4" Rd. from Crushed 2" Rd. x 0
- vi. TG-21 - Minus 1/4" Rd. x 0 from Crushed 2" Rd. x 0

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PLEASE ADDRESS ALL CORRESPONDENCE TO:  
P.O. BOX 752, HENDERSON, KY 42420  
OFFICE TEL. (502) 827-1187

► TEXAS EASTERN SYNFUELS, INC.  
Houston, TX 77001

July 10, 1981

Sample Identification  
by CT&E Company

Kind of sample reported to us Coal  
Sample taken at Peabody Camp #11  
Union County, Kentucky  
Sample taken by CT&E

Tri-State Synfuels Project  
Peabody Coal Company  
Camp #11  
Run of Mine Coal

Date sampled June 19, 1981

Date received June 19, 1981

Analysis report no. 63-135924

### SCREEN ANALYSIS

	<u>Percent Weight</u>	<u>Cumulative Percent Wt.</u>
Retained on 3" Rd.	2.0	2.0
Retained on 2" Rd., passing 3" Rd.	4.3	6.3
Retained on 1" Rd., passing 2" Rd.	20.0	26.3
Retained on 1/2" Rd., passing 1" Rd.	23.4	49.7
Retained on 1/4" Rd., passing 1/2" Rd.	17.2	66.9
Retained on No. 8, passing 1/4" Rd.	12.2	79.1
Retained on No. 16, passing No. 8	7.9	87.0
Retained on No. 30, passing No. 16	5.2	92.2
Retained on No. 50, passing No. 30	3.0	95.2
Retained on No. 100, passing No. 50	2.6	97.8
Passing No. 100	2.2	100.0

Respectfully submitted,  
COMMERCIAL TESTING & ENGINEERING CO.



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LT/mc

L. W. TAYLOR III, Manager, Central Division C-24.

Charter Member

OVER 40 BRANCH LABORATORIES STRATEGICALLY LOCATED IN PRINCIPAL COAL MINING AREAS,  
TIDEWATER AND GREAT LAKES PORTS, AND RIVER LOADING FACILITIES

PAUL WEIR COMPANY

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CAMP 11 MINE (KENTUCKY NO. 11)  
REPRESENTATIVE RUN-OF-MINE COAL

Size		Weight, %	Cumulative Weight, %	
Passing	Retained		Retained	Passing
-	3" Rd.	4.3	4.3	100.0
3" Rd.	2" Rd.	4.9	9.2	95.7
2" Rd.	1½" Rd.	7.8	17.0	90.8
1½" Rd.	1" Rd.	12.7	29.7	83.0
1" Rd.	¾" Rd.	8.9	38.6	70.3
¾" Rd.	3/8" Rd.	14.2	52.8	61.4
3/8" Rd.	½" Rd.	10.6	63.4	47.2
½" Rd.	No. 10	17.6	81.0	36.6
No. 10	No. 28	9.6	90.6	19.0
No. 28	-	9.4	100.0	9.4

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PLEASE ADDRESS ALL CORRESPONDENCE TO:  
P.O. BOX 752, HENDERSON, KY 42420  
OFFICE TEL. (502) 827-1187

July 10, 1981

► TEXAS EASTERN SYNFUELS, INC.  
Houston, TX 77001

Sample identification  
by CT&E Company

Kind of sample reported to us: Coal  
Sample taken at: Peabody Camp #11  
Union County, Kentucky  
Sample taken by: CT&E

Tri-State Synfuels Project  
Peabody Coal Company  
Camp #11  
Plus 2" Rd. Material  
Crushed to Pass 2" Rd.  
Represents 6.3% of Total Sample

Date sampled: June 19, 1981

Date received: June 19, 1981

Analysis report no. 63-136270

	<u>Percent Weight</u>	<u>Cumulative Percent Wt.</u>
Retained on 1" Rd., passing 2" Rd.	57.4	57.4
Retained on 1/2" Rd., passing 1" Rd.	20.6	78.0
Retained on 1/4" Rd., passing 1/2" Rd.	9.7	87.7
Retained on No. 8., passing 1/4" Rd.	5.1	92.8
Retained on No. 16, passing No. 8	2.8	95.6
Retained on No. 30, passing No. 16	1.8	97.4
Retained on No. 50, passing No. 30	1.1	98.5
Retained on No. 100, passing No. 50	1.0	99.5
Passing No. 100	0.5	100.0

Respectfully submitted,  
COMMERCIAL TESTING & ENGINEERING CO.



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L. W. TAYLOR III, Manager, Central Division C-26.

Charter Member

OVER 40 BRANCH LABORATORIES STRATEGICALLY LOCATED IN PRINCIPAL COAL MINING AREAS,  
TIDEWATER AND GREAT LAKES PORTS, AND RIVER LOADING FACILITIES

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OFFICE TEL. (502) 827-1187

September 18, 1981

TEXAS EASTERN SYNFUELS, INC.  
Houston, TX 77001

Sample Identification  
by CT&E Company

Kind of sample reported to us Coal  
Sample taken at Peabody Camp #11  
Union County, Kentucky  
Sample taken by CT&E  
Date sampled June 19, 1981  
Date received June 19, 1981

Tri-State Synfuels Project  
Peabody Coal Company  
Camp #11  
Crushed Raw Coal - Total Product  
TG19

Analysis report no. 63-135924

## SCREEN ANALYSIS

	Percent Weight	Cumulative Percent Wt.
Retained on 1" Rd., passing 2" Rd.	23.6	23.6
Retained on 1/2" Rd., passing 1" Rd.	24.7	48.3
Retained on 1/4" Rd., passing 1/2" Rd.	17.8	66.1
Retained on No. 8, passing 1/4" Rd.	12.5	78.6
Retained on No. 16, passing No. 8	8.1	86.7
Retained on No. 30, passing No. 16	5.3	92.0
Retained on No. 50, passing No. 30	3.1	95.1
Retained on No. 100, passing No. 50	2.6	97.7
Passing No. 100	2.3	100.0

Respectfully submitted,  
COMMERCIAL TESTING & ENGINEERING CO.



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LT/mc

L. W. TAYLOR III, Manager, Control Division C-27.

Charter Member

OVER 40 BRANCH LABORATORIES STRATEGICALLY LOCATED IN PRINCIPAL COAL MINING AREAS,  
TIDEWATER AND GREAT LAKES PORTS, AND RIVER LOADING FACILITIES

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P.O. BOX 752, HENDERSON, KY 42420  
OFFICE TEL. (502) 827-1187

February 3, 1982

▶ TEXAS EASTERN SYNFUELS  
Houston, TX 77001

Sample identification  
by CT&E Company

Kind of sample reported to us Coal  
Sample taken at Peabody Camp #11  
Uniontown, Kentucky  
Sample taken by CT&E  
Date sampled June 19, 1981  
Date received June 19, 1981

Tri-State Synfuels Project  
Peabody Coal Company  
Peabody Camp #11  
Plus 1/4" Rd. Screen Fraction  
66.1% of Total Product  
TG20

Analysis report no. 63-136315

## SCREEN ANALYSIS

	<u>Percent Weight</u>	<u>Cumulative Percent Wt.</u>
Retained on 1" Rd., passing 2" Rd.	35.7	35.7
Retained on 1/2" Rd., passing 1" Rd.	37.4	73.1
Retained on 1/4" Rd., passing 1/2" Rd.	26.9	100.0

Respectfully submitted,  
COMMERCIAL TESTING & ENGINEERING CO.

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L. W. TAYLOR III, Manager, Central Division C-28.



Charter Member

OVER 40 BRANCH LABORATORIES STRATEGICALLY LOCATED IN PRINCIPAL COAL MINING AREAS,  
TIDEWATER AND GREAT LAKES PORTS, AND RIVER LOADING FACILITIES



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OFFICE TEL. (502) 827-1187

February 3, 1982

TEXAS EASTERN SYNFUELS  
Houston, TX 77001

Sample Identification  
by  
CT&E Company

Kind of sample reported to us Coal  
Sample taken at Peabody Camp #11  
Uniontown, Kentucky  
Sample taken by CT&E  
Date sampled June 19, 1981  
Date received June 19, 1981

Tri-State Synfuels Project  
Peabody Coal Company  
Peabody Camp #11  
Minus 1/4" Rd. Screen Fraction  
33.9% of Total Product  
TG21

Analysis report no. 63-136316

### SCREEN ANALYSIS

	<u>Percent Weight</u>	<u>Cumulative Percent Wt.</u>
Retained on No. 8, passing 1/4" Rd.	36.9	36.9
Retained on No. 16, passing No. 8	23.9	60.8
Retained on No. 30, passing No. 16	15.6	76.4
Retained on No. 50, passing No. 30	9.1	85.5
Retained on No. 100, passing No. 50	7.7	93.2
Passing No. 100	6.8	100.0

Respectfully submitted,  
COMMERCIAL TESTING & ENGINEERING CO.



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L. W. TAYLOR III, Manager, Central Division C-29,

Charter Member

OVER 40 BRANCH LABORATORIES STRATEGICALLY LOCATED IN PRINCIPAL COAL MINING AREAS,  
TIDEWATER AND GREAT LAKES PORTS, AND RIVER LOADING FACILITIES

2.5 Hamilton

APPENDIX C-5

Hamilton Mine #1 - Kentucky No. 9 Seam

- i. Run-of-Mine Coal (\*) (5" Rd. x 0)
- ii. Representative Run-of-Mine Coal
- iii. Crushed 5" Rd. x 2" Rd. to Pass 2" Rd. x 0
- iv. IC-35 - Crushed 2" Rd. x 0 Raw Coal - Total Product
- v. IC-36 - Plus 2" Rd. x 1/4" Rd. from Crushed 2" Rd. x 0
- vi. IC-37 - Minus 1/4" Rd. x 0 from Crushed 2" Rd. x 0

Note:

(\*) Excluded 0.9% by weight - plus 5" Rd. white rock.

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## COMMERCIAL TESTING & ENGINEERING CO.

GENERAL OFFICES: 228 NORTH LA SALLE STREET, CHICAGO, ILLINOIS 60601 AREA CODE 312 726-8434



PLEASE ADDRESS ALL CORRESPONDENCE TO:  
P.O. BOX 752, HENDERSON, KY 42420  
OFFICE TEL. (502) 827-1187

July 10, 1981

► TEXAS EASTERN SYNFUELS, INC.  
Houston, TX 77001

Sample identification  
by CT&E Company

Kind of sample reported to us Coal  
Sample taken at Hamilton #1  
Union County, Kentucky  
Sample taken by CT&E  
Date sampled June 22, 1981  
Date received June 22, 1981

Tri-State Synfuels Project  
Island Creek Coal Company  
Hamilton No. 1 Mine  
Run of Mine Coal \*

\*See Note Below

Analysis report no. 63-136327

### SCREEN ANALYSIS

	<u>Percent Weight</u>	<u>Cumulative Percent Wt.</u>
Retained on 3" Rd., passing 5" Rd.	5.2	5.2
Retained on 2" Rd., passing 3" Rd.	6.6	11.8
Retained on 1" Rd., passing 2" Rd.	17.9	29.7
Retained on 1/2" Rd., passing 1" Rd.	19.4	49.1
Retained on 1/4" Rd., passing 1/2" Rd.	16.1	65.2
Retained on No. 8, passing 1/4" Rd.	12.1	77.3
Retained on No. 16, passing No. 8	8.0	85.3
Retained on No. 30, passing No. 16	6.0	91.3
Retained on No. 50, passing No. 30	5.2	96.5
Retained on No. 100, passing No. 50	2.3	98.8
Passing No. 100	1.2	100.0

NOTE: Plus 5" Rd. white rock due to faulty roof conditions excluded per Weirco's instructions (54.82 lbs or 0.9% of total sample).

Respectfully submitted,  
COMMERCIAL TESTING & ENGINEERING CO.



J.T./ph  
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L.W. TAYLOR III, Manager, Central Division C-31.

Charter Member

OVER 40 BRANCH LABORATORIES STRATEGICALLY LOCATED IN PRINCIPAL COAL MINING AREAS,  
TIDEWATER AND GREAT LAKES PORTS, AND RIVER LOADING FACILITIES

PAUL WEIR COMPANY

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HAMILTON MINE #1 (KENTUCKY NO. 9)  
REPRESENTATIVE RUN-OF-MINE COAL

<u>Size</u>		<u>Weight, %</u>	<u>Cumulative Weight, %</u>	
<u>Passing</u>	<u>Retained</u>		<u>Retained</u>	<u>Passing</u>
-	3" Rd.			
3" Rd.	2" Rd.	?	?	100.00
2" Rd.	1½" Rd.	10.26	10.26	100.00
1½" Rd.	1¼" Rd.	8.10	18.36	89.74
1¼" Rd.	1" Rd.	5.65	24.01	81.64
1" Rd.	¾" Rd.	7.31	31.32	75.99
¾" Rd.	½" Rd.	10.97	42.29	68.68
½" Rd.	3/8" Rd.	7.85	50.14	57.71
3/8" Rd.	¼" Rd.	9.74	59.88	49.86
¼" Rd.	1/8" Sq.	11.28	71.16	40.12
1/8" Sq.	10 M	8.72	79.88	28.84
10 M	28 M	9.07	88.95	20.12
28 M	48 M	4.42	93.37	11.05
48 M	60 M	0.59	93.96	6.63
60 M	100 M	1.80	95.76	6.04
100 M	-	4.24	100.00	4.24

Note:

M = Tyler series - square mesh.

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P.O. BOX 752, HENDERSON, KY 42420  
OFFICE TEL. (502) 827-1187

July 10, 1981

► TEXAS EASTERN SYNFUELS, INC.  
Houston, TX 77001

Sample identification  
by CT&E Company

Kind of sample reported to us Coal  
Sample taken at Hamilton #1  
Union County, Kentucky  
Sample taken by CT&E  
Date sampled June 22, 1981  
Date received June 22, 1981

Tri-State Synfuels Project  
Island Creek Coal Company  
Hamilton No. 1 Mine  
Plus 2" Rd. Material  
Crushed to Pass 2" Rd.  
11.8% of total sample

Analysis report no. 63-176328

### SCREEN ANALYSIS

	<u>Percent Weight</u>	<u>Cumulative Percent Wt.</u>
Retained on 1" Rd., passing 2" Rd.	51.8	51.8
Retained on 1/2" Rd., passing 1" Rd.	22.0	73.8
Retained on 1/4" Rd., passing 1/2" Rd.	11.3	85.1
Retained on No. 8, passing 1/4" Rd.	6.2	91.3
Retained on No. 16, passing No. 8	3.7	95.0
Retained on No. 30, passing No. 16	2.1	97.1
Retained on No. 50, passing No. 30	1.2	98.3
Retained on No. 100, passing No. 50	1.0	99.3
Passing No. 100	0.7	100.0

Respectfully submitted,  
COMMERCIAL TESTING & ENGINEERING CO.



Charter Member

L.W. TAYLOR III, Manager, Central Division C-33.

OVER 40 BRANCH LABORATORIES STRATEGICALLY LOCATED IN PRINCIPAL COAL MINING AREAS,  
TIDEWATER AND GREAT LAKES PORTS, AND RIVER LOADING FACILITIES

LT/ph  
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PLEASE ADDRESS ALL CORRESPONDENCE TO:  
P.O. BOX 782, HENDERSON, KY 42420  
OFFICE TEL. (502) 827-1187

September 18, 1981

TEXAS EASTERN SYNFUELS  
Houston, TX 77001

Sample identification  
by

CT&E Company

Kind of sample  
reported to us Coal

Sample taken at Hamilton #1  
Union County, Kentucky

Sample taken by CT&E

Date sampled June 23, 1981

Date received June 23, 1981

Tri-State Synfuels Project  
Island Creek Coal Company  
Hamilton No. 1 Mine  
Crushed Raw Coal - Total Product  
IC35

Analysis report no. 63-136327

### SCREEN ANALYSIS

	<u>Percent Weight</u>	<u>Cumulative Percent Wt.</u>
Retained on 1" Rd., passing 2" Rd.	24.0	24.0
Retained on 1/2" Rd., passing 1" Rd.	18.3	42.3
Retained on 1/4" Rd., passing 1/2" Rd.	17.6	59.9
Retained on No. 8, passing 1/4" Rd.	14.0	73.9
Retained on No. 16, passing No. 8	9.2	83.1
Retained on No. 30, passing No. 16	7.0	90.1
Retained on No. 50, passing No. 30	5.9	96.0
Retained on No. 100, passing No. 50	2.6	98.6
Passing No. 100	1.4	100.0

Respectfully submitted,  
COMMERCIAL TESTING & ENGINEERING CO.



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L. W. TAYLOR III, Manager, Central Division

C-34.

Charter Member

LT/MC  
OVER 40 BRANCH LABORATORIES STRATEGICALLY LOCATED IN PRINCIPAL COAL MINING AREAS,  
TIDEWATER AND GREAT LAKE PORTS, AND RIVER LOADING FACILITIES

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PLEASE ADDRESS ALL CORRESPONDENCE TO:  
P.O. BOX 752, HENDERSON, KY 42420  
OFFICE TEL. (502) 827-1187

February 3, 1982

► TEXAS EASTERN SYNFUELS  
Houston, TX 77001

Sample identification  
by CT&E Company

Kind of sample  
reported to us Coal

Sample taken at Hamilton #1 Mine  
Morganfield, Kentucky

Sample taken by CT&E

Date sampled June 22, 1981

Date received June 22, 1981

Tri-State Synfuels Project  
Island Creek Coal Company  
Hamilton No. 1 Mine  
Plus 1/4" Rd. Screen Fraction  
59.9% of Total Product  
IC36

Analysis report no. 63-136329

### SCREEN ANALYSIS

	<u>Percent Weight</u>	<u>Cumulative Percent Wt.</u>
Retained on 1" Rd., passing 2" Rd.	40.1	40.1
Retained on 1/2" Rd., passing 1" Rd.	30.5	70.6
Retained on 1/4" Rd., passing 1/2" Rd.	29.4	100.0

Respectfully submitted,  
COMMERCIAL TESTING & ENGINEERING CO.



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LT/mc

L. W. TAYLOR III, Manager, Central Division C-35.

Charter Member

OVER 40 BRANCH LABORATORIES STRATEGICALLY LOCATED IN PRINCIPAL COAL MINING AREAS,  
TIDEWATER AND GREAT LAKES PORTS, AND RIVER LOADING FACILITIES



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OFFICE TEL. (502) 827-1187

February 3, 1982

▶ TEXAS EASTERN SYNFUELS  
Houston, TX 77001

Sample identification  
by  
CT&E Company

Kind of sample  
reported to us Coal  
Sample taken at Hamilton #1 Mine  
Morganfield, Kentucky  
Sample taken by CT&E  
Date sampled June 22, 1982  
Date received June 22, 1982

Tri-State Synfuels Project  
Island Creek Coal Company  
Hamilton No. 1 Mine  
Minus 1/4" Rd. Screen Fraction  
40.1% of Total Product  
IC37

Analysis report no. 63-136330

### SCREEN ANALYSIS

	<u>Percent Weight</u>	<u>Cumulative Percent Wt.</u>
Retained on No. 8, passing 1/4" Rd.	34.9	34.9
Retained on No. 16, passing No. 8	22.9	57.8
Retained on No. 30, passing No. 16	17.5	75.3
Retained on No. 50, passing No. 30	14.7	90.0
Retained on No. 100, passing No. 50	6.5	96.5
Passing No. 100	3.5	100.0

Respectfully Submitted,  
COMMERCIAL TESTING & ENGINEERING CO.



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LT/mc

L. W. TAYLOR III, Manager, Central Division C-36.

Charter Member

OVER 40 BRANCH LABORATORIES STRATEGICALLY LOCATED IN PRINCIPAL COAL MINING AREAS,  
TIDEWATER AND GREAT LAKES PORTS, AND RIVER LOADING FACILITIES

## 2.6 Providence

PAUL WEIR COMPANY

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APPENDIX C-6

Providence #1 - Kentucky No. 9 Seam

- i. Run-of-Mine Coal (2" Rd. x 0)
- ii. Representative Run-of-Mine Coal  
(Island Creek Coal Co. Letterhead)
- iii. IC-38 - Crushed 2" Rd. x 0 Raw Coal - Total Product  
(Same as i)
- iv. IC-39 - Plus 2" Rd. x 1/4" Rd. from Run-of-Mine Coal
- v. IC-40 - Minus 1/4" Rd. x 0 from Run-of-Mine Coal

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P.O. BOX 752, HENDERSON, KY 42420  
OFFICE TEL. (502) 827-1187

July 10, 1981

TEXAS EASTERN SYNFUELS, INC.  
Houston, TX 77001

Sample Identification  
by CT&E Company

Kind of sample  
reported to us Coal

Sample taken at Providence #1  
Providence, Kentucky

Sample taken by CT&E

Date sampled June 23, 1981

Date received June 23, 1981

Tri-State Synfuels Project  
Island Creek Coal Company  
Providence No. 1 Mine  
Crushed Raw Coal - Total Product  
IC38

Analysis report no. 63-135454

### SCREEN ANALYSIS

	<u>Percent Weight</u>	<u>Cumulative Percent Wt.</u>
Retained on 1" Rd., passing 2" Rd.	14.4	14.4
Retained on 1/2" Rd., passing 1" Rd.	21.6	36.0
Retained on 1/4" Rd., passing 1/2" Rd.	14.8	50.8
Retained on No. 8, passing 1/4" Rd.	20.2	71.0
Retained on No. 16, passing No. 8	10.7	81.7
Retained on No. 30, passing No. 16	7.6	89.3
Retained on No. 50, passing No. 30	6.2	95.5
Retained on No. 100, passing No. 50	2.9	98.4
Passing No. 100	1.6	100.0

Respectfully submitted,  
COMMERCIAL TESTING & ENGINEERING CO.



LT/ph

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L. W. TAYLOR III, Manager, Central Division C-38.

Member

OVER 40 BRANCH LABORATORIES STRATEGICALLY LOCATED IN PRINCIPAL COAL MINING AREAS,  
TIDEWATER AND GREAT LAKES PORTS, AND RIVER LOADING FACILITIES

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Island Creek Coal Company      WEST KENTUCKY DIVISION

MADISONVILLE, KENTUCKY 40411

May 31, 1980

SCREEN ANALYSIS:

PROVIDENCE NO. 1  
1-1/4 x 0 Raw - Plant Feed

<u>SIZE</u>	<u>PERCENT</u>
+1-1/4	16.87
1-1/4 x 1	12.40
1 x 3/4	11.95
3/4 x 1/2	13.68
1/2 x 1/4	16.50
-1/4	28.60
Total	100.00

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P.O. BOX 752, HENDERSON, KY 42420  
OFFICE TEL. (502) 827-1187

February 3, 1982

TEXAS EASTERN SYNFUELS  
Houston, TX 77001

Sample identification  
by CT&E Company

Kind of sample reported to us Coal  
Sample taken at Providence #1 Mine  
Providence, Kentucky  
Sample taken by CT&E  
Date sampled June 23, 1981  
Date received June 23, 1981

Tri-State Synfuels Project  
Island Creek Coal Company  
Providence No. 1 Mine  
Plus 1/4" Rd. Screen Fraction  
50.8% of Total Product  
IC39

Analysis report no. 63-136457

## SCREEN ANALYSIS

	<u>Percent Weight</u>	<u>Cumulative Percent Wt.</u>
Retained on 1" Rd., passing 2" Rd.	28.4	28.4
Retained on 1/2" Rd., passing 1" Rd.	42.5	70.9
Retained on 1/4" Rd., passing 1/2" Rd.	29.1	100.0

Respectfully submitted,  
COMMERCIAL TESTING & ENGINEERING CO.



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LT/mc

L.W. TAYLOR III, Manager, Central Division

C-40.

Charter Member

OVER 40 BRANCH LABORATORIES STRATEGICALLY LOCATED IN PRINCIPAL COAL MINING AREAS,  
TIDEWATER AND GREAT LAKES PORTS, AND RIVER LOADING FACILITIES

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OFFICE TEL. (502) 827-1187

February 3, 1982

TEXAS EASTERN SYNFUELS  
Houston, TX 77001

Sample identification  
by CT&E Company

Kind of sample reported to us Coal  
Sample taken at Providence #1 Mine  
Providence, Kentucky  
Sample taken by CT&E  
Date sampled June 23, 1981  
Date received June 23, 1981

Tri-State Synfuels Project  
Island Creek Coal Company  
Providence No. 1 Mine  
Minus 1/4" Rd. Screen Fraction  
49.2% of Total Product  
IC40

Analysis report no. 63-136455

### SCREEN ANALYSIS

	<u>Percent Weight</u>	<u>Cumulative Percent Wt.</u>
Retained on No. 8, passing 1/4" Rd.	41.1	41.1
Retained on No. 16, passing No. 8	21.7	62.8
Retained on No. 30, passing No. 16	15.4	78.2
Retained on No. 50, passing No. 30	12.6	90.8
Retained on No. 100, passing No. 50	5.9	96.7
Passing No. 100	3.3	100.0

Respectfully submitted,  
COMMERCIAL TESTING & ENGINEERING CO.



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LT/mc

L.W. TAYLOR III, Manager, Central Division C-41.

Charter Member

OVER 40 BRANCH LABORATORIES STRATEGICALLY LOCATED IN PRINCIPAL COAL MINING AREAS,  
TIDEWATER AND GREAT LAKES PORTS, AND RIVER LOADING FACILITIES

2.7 No. 9



PAUL WEIR COMPANY

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APPENDIX C-7

No. 9 - Kentucky No. 9 Seam

- i. Run-of-Mine Coal (2" Rd. x 0)
- ii. Representative Run-of-Mine Coal
- iii. IC-41 - Crushed 2" Rd. x 0 - Total Product  
(Same as i)
- iv. IC-42 - Plus 2" Rd. x 1/4" Rd. from Run-of-Mine Coal
- v. IC-43 - Minus 1/4" Rd. x 0 from Run-of-Mine Coal

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OFFICE TEL. (502) 827-1187

July 10, 1981

TEXAS EASTERN SYNFUELS, INC.  
Houston, TX 77001

Sample identification  
by CT&E Company

Kind of sample reported to us	Coal	Tri-State Synfuels Project
Sample taken at	Island Creek #9 Madisonville, Kentucky	Island Creek Coal Company No. 9 Mine
Sample taken by	CT&E	Crushed Raw Coal - Total Product IC41
Date sampled	June 23, 1981	
Date received	June 23, 1981	

Analysis report no. 63-136139

### SCREEN ANALYSIS

	<u>Percent Weight</u>	<u>Cumulative Percent Wt.</u>
Retained on 2" Rd., passing 3" Rd.	0.1	0.1
Retained on 1" Rd., passing 2" Rd.	15.5	15.6
Retained on 1/2" Rd., passing 1" Rd.	26.6	42.2
Retained on 1/4" Rd., passing 1/2" Rd.	19.1	61.3
Retained on No. 8, passing 1/4" Rd.	14.5	75.8
Retained on No. 16, passing No. 8	9.4	85.2
Retained on No. 30, passing No. 16	7.3	92.5
Retained on No. 50, passing No. 30	5.2	97.7
Retained on No. 100, passing No. 50	1.7	99.4
Passing No. 100	0.6	100.0

Respectfully submitted,  
COMMERCIAL TESTING & ENGINEERING CO.



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L. W. TAYLOR III, Manager, Central Division

C-43.

Charter Member

OVER 40 BRANCH LABORATORIES STRATEGICALLY LOCATED IN PRINCIPAL COAL MINING AREAS,  
TIDEWATER AND GREAT LAKES PORTS, AND RIVER LOADING FACILITIES

PAUL WEIR COMPANY

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NO. 9 - ICCCo. (KENTUCKY NO. 9)  
REPRESENTATIVE RUN-OF-MINE COAL

<u>Size</u>		<u>Weight, %</u>	<u>Cumulative Weight, %</u>	
<u>Passing</u>	<u>Retained</u>		<u>Retained</u>	<u>Passing</u>
-	2" Rd.	0	0	100.00
2" Rd.	1½" Rd.	11.11	11.11	100.00
1½" Rd.	1" Rd.	8.06	19.17	88.89
1" Rd.	¾" Rd.	10.66	29.83	80.83
¾" Rd.	½" Rd.	13.99	43.82	70.17
½" Rd.	3/8" Rd.	9.41	53.23	56.18
3/8" Rd.	¼" Rd.	12.17	65.40	46.77
¼" Rd.	1/8" Sq.	12.17	77.57	34.60
1/8" Sq.	10 M	7.45	85.02	22.43
10 M	28 M	6.61	91.63	14.98
28 M	48 M	3.08	94.71	8.37
48 M	60 M	0.60	95.31	5.29
60 M	100 M	1.45	96.76	4.69
100 M	-	3.24	100.00	3.24

Note:

M = Tyler series - square mesh.

C-444.

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P.O. BOX 752, HENDERSON, KY 42420  
OFFICE TEL. (502) 827-1187

February 3, 1982

▶ TEXAS EASTERN SYNFUELS  
Houston, TX 77001

Sample identification  
by CT&E Company

Kind of sample reported to us Coal  
Sample taken at Island Creek #9 Mine  
Madisonville, Kentucky  
Sample taken by CT&E  
Date sampled June 23, 1981  
Date received June 23, 1981

Tri-State Synfuels Project  
Island Creek Coal Company  
No. 9 Mine  
Plus 1/4" Rd. Screen Fraction  
61.3% of Total Product  
IC42

Analysis report no. 63-136140

## SCREEN ANALYSIS

	<u>Percent Weight</u>	<u>Cumulative Percent Wt.</u>
Retained on 2" Rd., passing 3" Rd.	0.2	0.2
Retained on 1" Rd., passing 2" Rd.	25.3	25.5
Retained on 1/2" Rd., passing 1" Rd.	43.3	68.8
Retained on 1/4" Rd., passing 1/2" Rd.	31.2	100.0

Respectfully submitted,  
COMMERCIAL TESTING & ENGINEERING CO.



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LT/mc

L. W. TAYLOR III, Manager, Central Division

C-45.

Charter Member

OVER 40 BRANCH LABORATORIES STRATEGICALLY LOCATED IN PRINCIPAL COAL MINING AREAS,  
TIDEWATER AND GREAT LAKES PORTS, AND RIVER LOADING FACILITIES

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P.O. BOX 752, HENDERSON, KY 42420  
OFFICE TEL. (502) 827-1187

February 3, 1982

TEXAS EASTERN SYNFUELS  
Houston, TX 77001

Sample identification  
by CT&E Company

Kind of sample  
reported to us Coal  
Sample taken at Island Creek #9 Mine  
Madisonville, Kentucky  
Sample taken by CT&E  
Date sampled June 23, 1981  
Date received June 23, 1981

Tri-State Synfuels Project  
Island Creek Coal Company  
No. 9 Mine  
Minus 1/4" Rd. Screen Fraction  
38.7% of Total Product  
IC43

Analysis report no. 63-136141

## SCREEN ANALYSIS

	<u>Percent Weight</u>	<u>Cumulative Percent Wt.</u>
Retained on No. 8, passing 1/4" Rd.	37.5	37.5
Retained on No. 16, passing No. 8	24.3	61.8
Retained on No. 30, passing No. 16	18.9	80.7
Retained on No. 50, passing No. 30	13.4	94.1
Retained on No. 100, passing No. 50	4.4	98.5
Passing No. 100	1.5	100.0

Respectfully submitted,  
COMMERCIAL TESTING & ENGINEERING CO.



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LT/MC

L. W. TAYLOR III, Manager, Central Division C-46.

Junior Member

OVER 40 BRANCH LABORATORIES STRATEGICALLY LOCATED IN PRINCIPAL COAL MINING AREAS,  
TIDEWATER AND GREAT LAKES PORTS, AND RIVER LOADING FACILITIES

2.8 Marissa

PAUL WEIR COMPANY

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APPENDIX C-8

Marissa Mine - Illinois No. 6 Seam

- i. Run-of-Mine Coal (2" Rd. x 0)
- ii. Representative Run-of-Mine Coal
- iii. PB-25 - Crushed 2" Rd. x 0 - Total Product  
(Same as i)
- iv. PB-26 - Plus 2" Rd. x 1/4" Rd. from Run-of-Mine Coal
- v. PB-27 - Minus 1/4" Rd. x 0 from Run-of-Mine Coal

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► TEXAS EASTERN SYNFUELS  
Houston, TX 77001

February 5, 1982

Sample Identification  
by CT&E Company

Kind of sample reported to us Coal  
Sample taken at Marissa Mine  
Randolph County, Illinois  
Sample taken by CT&E  
Date sampled June 23, 1981  
Date received June 23, 1981

Tri-State Synfuels Project  
Peabody Coal Company  
Marissa Mine  
Raw Run of Mine Coal.  
PB-25

Analysis report no. 71-74298

## SCREEN ANALYSIS

	<u>Percent Weight</u>	<u>Cumulative Percent Wt.</u>
Retained on 2" Rd.	4.8	4.8
Retained on 1" Rd., passing 2" Rd.	17.7	22.5
Retained on 1/2" Rd., passing 1" Rd.	23.7	46.2
Retained on 1/4" Rd., passing 1/2" Rd.	19.6	65.8
Retained on No. 8, passing 1/4" Rd.	16.6	82.4
Retained on No. 16, passing No. 8	10.3	92.7
Retained on No. 30, passing No. 16	5.4	98.1
Retained on No. 50, passing No. 30	1.1	99.2
Retained on No. 100, passing No. 50	0.4	99.6
Passing No. 100	0.4	100.0

Respectfully submitted,  
COMMERCIAL TESTING & ENGINEERING CO.

*R. A. Houser*

R. A. HOUSER, Manager, Midwest Division C-48.



Charter Member

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MARISSA/BALDWIN MINES (ILLINOIS NO. 6)

REPRESENTATIVE RUN-OF-MINE COAL

<u>Size</u>		<u>Weight, %</u>	<u>Cumulative Weight, %</u>	
<u>Passing</u>	<u>Retained</u>		<u>Retained</u>	<u>Passing</u>
-	2" Rd.	4.58	4.58	100.00
2" Rd.	1-3/4" Rd.	1.94	6.52	95.42
1-3/4" Rd.	1 1/2" Rd.	2.77	9.29	93.48
1 1/2" Rd.	1 1/4" Rd.	4.14	13.43	90.71
1 1/4" Rd.	1" Rd.	5.77	19.20	86.57
1" Rd.	3/4" Rd.	8.01	27.21	80.80
3/4" Rd.	1/2" Rd.	12.55	39.76	72.79
1/2" Rd.	1/4" Rd.	21.39	61.15	60.24
1/4" Rd.	10 M	15.44	76.59	38.85
10 M	28 M	9.14	85.73	23.41
28 M	48 M	3.32	89.05	14.27
48 M	60 M	0.80	89.85	10.95
60 M	100 M	1.18	91.03	10.15
100 M	-	8.97	100.00	8.97

Note:

M = Tyler series - square mesh.

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TEXAS EASTERN SYNFUELS  
Houston, TX 77001

February 5, 1982

Sample identification  
by CT&E Company

Kind of sample reported to us	Coal	Tri-State Synfuels Project Peabody Coal Company Marissa Mine Plus 1/4" Rd. screen fraction. PB-26
Sample taken at	Marissa Mine	
Sample taken by	Randolph County, Illinois CT&E	
Date sampled	June 23, 1981	
Date received	June 23, 1981	

Analysis report no. 71-74299

### SCREEN ANALYSIS

	<u>Percent Weight</u>	<u>Cumulative Percent Wt.</u>
Retained on 2" Rd.	7.3	7.3
Retained on 1" Rd., passing 2" Rd.	26.9	34.2
Retained on 1/2" Rd., passing 1" Rd.	36.0	70.2
Retained on 1/4" Rd., passing 1/2" Rd.	29.8	100.0

Respectfully submitted,  
COMMERCIAL TESTING & ENGINEERING CO.

*R. A. Houser*  
R. A. HOUSER, Manager, Midwest Division C-50.



Chapter Member

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Houston, TX 77001

February 5, 1982

Sample identification  
by CT&E Company

Kind of sample reported to us	Coal	Tri-State Synfuels Project Peabody Coal Company Marissa Mine Minus 1/4" Rd. screen fraction. PB-27
Sample taken at	Marissa Mine Randolph County, Illinois	
Sample taken by	CT&E	
Date sampled	June 23, 1981	
Date received	June 23, 1981	

Analysis report no. 71-74300

## SCREEN ANALYSIS

	<u>Percent Weight</u>	<u>Cumulative Percent Wt.</u>
Retained on No. 8, passing 1/4" Rd.	48.5	48.5
Retained on No. 16, passing No. 8	30.1	78.6
Retained on No. 30, passing No. 16	15.8	94.4
Retained on No. 50, passing No. 30	3.2	97.6
Retained on No. 100, passing No. 50	1.2	98.8
Passing No. 100	1.2	100.0

Respectfully submitted,  
COMMERCIAL TESTING & ENGINEERING CO.

*R. A. Houser*

R. A. HOUSER, Manager, Midwest Division C-51.



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2.9 Wabash

PAUL WEIR COMPANY

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APPENDIX C-9

Wabash Mine - Illinois No. 5 Seam

- i. Run-of-Mine Coal (2" Rd. x 0)
- ii. Representative Run-of-Mine Coal
- iii. AX-1 - Crushed 2" Rd. x 0 - Total Product  
(Same as i)
- iv. AX-2 - Plus 2" Rd. x 1/4" Rd. from Run-of-Mine Coal
- v. AX-3 - Minus 1/4" Rd. x 0 from Run-of-Mine Coal

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OFFICE TEL (312) 264-1173

TEXAS EASTERN SYNFUELS  
Houston, TX 77001

February 5, 1982

Sample identification  
by CT&E Company

Kind of sample reported to us Coal  
Sample taken at Wabash Mine  
Wabash County, Illinois  
Sample taken by CT&E  
Date sampled June 17, 1981  
Date received June 17, 1981

Tri-State Synfuels Project  
Amax Coal Company  
Wabash Mine  
Raw Run of Mine Coal.  
AX-1

Analysis report no. 71-74295

## SCREEN ANALYSIS

	Percent Weight	Cumulative Percent Wt.
Retained on 2" Rd.	1.8	1.8
Retained on 1" Rd., passing 2" Rd.	20.9	22.7
Retained on 1/2" Rd., passing 1" Rd.	22.5	45.2
Retained on 1/4" Rd., passing 1/2" Rd.	18.5	63.7
Retained on No. 8, passing 1/4" Rd.	11.1	74.8
Retained on No. 16, passing No. 8	8.3	83.1
Retained on No. 30, passing No. 16	5.9	89.0
Retained on No. 50, passing No. 30	4.1	93.1
Retained on No. 100, passing No. 50	2.9	96.0
Passing No. 100	4.0	100.0

Respectfully submitted,  
COMMERCIAL TESTING & ENGINEERING CO.

R. A. HOUSER, Manager, Midwest Division C-53.



Charter Member

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PAUL WEIR COMPANY

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WABASH MINE - AMAX (ILLINOIS NO. 5)

REPRESENTATIVE RUN-OF-MINE COAL

Size		Weight, %	Cumulative Weight, %	
Passing	Retained		Retained	Passing
-	2" Rd.	1.02	1.02	100.00
2" Rd.	1½" Rd.	7.09	8.11	98.98
1½" Rd.	1¼" Rd.	8.10	16.21	91.89
1¼" Rd.	1" Rd.	9.78	25.99	83.79
1" Rd.	¾" Rd.	12.44	38.43	74.01
¾" Rd.	½" Rd.	13.29	51.72	61.57
½" Rd.	3/8" Rd.	8.63	60.35	48.28
3/8" Rd.	¼" Rd.	9.59	69.94	39.65
¼" Rd.	-	30.06	100.00	30.06

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► TEXAS EASTERN SYNFUELS  
Houston, TX 77001

February 5, 1982

Sample Identification  
by CT&E Company

Kind of sample reported to us	Coal	Tri-State Synfuels Project Amax Coal Company Wabash Mine Plus 1/4" Rd. screen fraction. AX-2
Sample taken at	Wabash Mine	
	Wabash County, Illinois	
Sample taken by	CT&E	
Date sampled	June 17, 1981	
Date received	June 17, 1981	

Analysis report no. 71-74296

## SCREEN ANALYSIS

	<u>Percent Weight</u>	<u>Cumulative Percent Wt.</u>
Retained on 2" Rd.	2.8	2.8
Retained on 1" Rd., passing 2" Rd.	32.8	35.6
Retained on 1/2" Rd., passing 1" Rd.	35.3	70.9
Retained on 1/4" Rd., passing 1/2" Rd.	29.1	100.0

Respectfully submitted,  
COMMERCIAL TESTING & ENGINEERING CO.

*R. A. Houser*  
R. A. HOUSER, Manager, Midwest Division C-55.



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OFFICE TEL (312) 284-1173

TEXAS EASTERN SYNFUELS  
Houston, TX 77001

February 5, 1982

Sample Identification  
by CT&E Company

Kind of sample reported to us Coal  
Sample taken at Wabash Mine  
Wabash County, Illinois  
Sample taken by CT&E  
Date sampled June 17, 1981  
Date received June 17, 1981

Tri-State Synfuels Project  
Amax Coal Company  
Wabash Mine  
Minus 1/4" Rd. screen fraction.  
AX-3

Analysis report no. 71-74297

## SCREEN ANALYSIS

	Percent Weight	Cumulative Percent Wt.
Retained on No. 8, passing 1/4" Rd.	30.6	30.6
Retained on No. 16, passing No. 8	22.9	53.5
Retained on No. 30, passing No. 16	16.2	69.7
Retained on No. 50, passing No. 30	11.3	81.0
Retained on No. 100, passing No. 50	8.0	89.0
Passing No. 100	11.0	100.0

Respectfully submitted,  
COMMERCIAL TESTING & ENGINEERING CO.

*R. A. Houser*  
R. A. HOUSER, Manager, Midwest Division C-56.



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2.10 Delta

PAUL WEIR COMPANY

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APPENDIX C-10

Delta Mine - Illinois No. 6 Seam

- i. Run-of-Mine Coal (5" Rd. x 0)
- ii. Representative Run-of-Mine Coal
- iii. Crushed 5" Rd. x 2" Rd. to Pass 2" Rd. x 0
- iv. AX-4 - Crushed 2" Rd. x 0 Raw Coal - Total Product
- v. AX-5 - Plus 2" Rd. x 1/4" Rd. from Crushed 2" Rd. x 0
- vi. AX-6 - Minus 1/4" Rd. x 0 from Crushed 2" Rd. x 0
- vii. — - Natural 2" Rd. x 0 from Run-of-Mine Coal

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OFFICE TEL. (312) 264-1173

TEXAS EASTERN SYNFUELS  
Houston, TX 77001

February 5, 1982

Sample identification  
by CT&E Company

Kind of sample reported to us Coal  
Sample taken at Delta Mine  
Saline County, Illinois  
Sample taken by CT&E  
Date sampled June 18, 1981  
Date received June 18, 1981

Tri-State Synfuels Project  
Amax Coal Company  
Delta Mine  
Raw Run of Mine Coal.

Analysis report no. 71-74327

## SCREEN ANALYSIS

	Percent Weight	Cumulative Percent Wt.
Retained on 6" Rd.	2.7	2.7
Retained on 5" Rd., passing 6" Rd.	1.7	4.4
Retained on 4" Rd., passing 5" Rd.	2.2	6.6
Retained on 3" Rd., passing 4" Rd.	5.5	12.1
Retained on 2" Rd., passing 3" Rd.	7.8	19.9
Retained on 1" Rd., passing 2" Rd.	21.9	41.8
Retained on 1/2" Rd., passing 1" Rd.	21.9	63.7
Retained on 1/4" Rd., passing 1/2" Rd.	13.6	77.3
Retained on No. 8, passing 1/4" Rd.	6.7	84.0
Retained on No. 16, passing No. 8	7.4	91.4
Retained on No. 30, passing No. 16	3.1	94.5
Retained on No. 50, passing No. 30	1.8	96.3
Retained on No. 100, passing No. 50	1.1	97.4
Passing No. 100	2.6	100.0

Respectfully submitted,  
COMMERCIAL TESTING & ENGINEERING CO.

R. A. HOUSER, Manager, Midwest Division C-58.



PAUL WEIR COMPANY

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DELTA MINE - AMAX (ILLINOIS NO. 6)

REPRESENTATIVE RUN-OF-MINE COAL

<u>Size</u>		<u>Weight, %</u>	<u>Cumulative Weight, %</u>	
<u>Passing</u>	<u>Retained</u>		<u>Retained</u>	<u>Passing</u>
-	5" Rd.	14.94	14.94	100.00
5" Rd.	3" Rd.	12.81	27.75	85.06
3" Rd.	2" Rd.	10.87	38.62	72.25
2" Rd.	1½" Rd.	11.14	49.76	61.38
1½" Rd.	1" Rd.	12.41	62.17	50.24
1" Rd.	¾" Rd.	19.99	82.16	37.83
¾" Rd.	1/8"	5.54	87.70	17.84
1/8"	No. 30	7.54	95.24	12.30
No. 30	-	4.76	100.00	4.76

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TO: Martial P. Corriveau

June 29, 1981

RE: Project 2753-B

Amax Delta Mine, Ill. #6 Seam

Screen Analysis of Total Raw Coal Sample (Test Sample) mpc

<u>Passing</u>	<u>Retained On</u>	<u>% Weight</u>
	6"	2.7
6"	5"	1.7
5"	4"	2.2
4"	3"	5.5
3"	2"	7.8
2"	1"	21.9
1"	1/2"	21.9
1/2"	1.4"	13.6
1/4"	No. 8	6.7
No. 8	No. 16	7.4
No. 16	No. 30	3.1
No. 30	No. 50	1.8
No. 50	No. 100	1.1
No. 100		2.6
		<u>100.0</u>

Screen Analysis of natural 2" x 0 (80.1% of total sample)

		<u>% of 2" x 0</u>	<u>% of +6" x 0</u>
2	1"	27.4	21.9
1	1/2"	27.3	21.9
1/2	1/4"	17.0	13.6
1/4	No. 8	8.3	6.7
8	No. 16	9.2	7.4
16	No. 30	3.9	3.1
30	No. 50	2.3	1.8
50	No. 100	1.4	1.1
No. 100		3.2	2.6
		<u>100.0</u>	<u>80.1</u>

Screen Analysis of +2" / R.O.M. mpc  
crushed to 2" x 0 (19.9% of total sample)

2	1"	6.9	1.4
1	1/2"	31.6	6.3
1/2	1/4"	26.5	5.3
1/4	No. 8	13.6	2.7
8	No. 16	10.9	2.2
16	No. 30	4.7	0.9
30	No. 50	2.6	0.5
50	No. 100	1.4	0.3
No. 100		1.8	0.3
		<u>100.0</u>	<u>19.9</u>



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OFFICE TEL (312) 264-1173

TEXAS EASTERN SYNFUELS  
Houston, TX 77001

February 5, 1982

Sample identification  
by CT&E Company

Kind of sample reported to us	Coal	Tri-State Synfuels Project Amex Coal Company Delta Mine Crushed Raw Coal. Total Product. AX-4
Sample taken at	Delta Mine Saline County, Illinois	
Sample taken by	CT&E	
Date sampled	June 18, 1981	
Date received	June 18, 1981	

Analysis report no. 71-74327

## SCREEN ANALYSIS

	<u>Percent Weight</u>	<u>Cumulative Percent Wt.</u>
Retained on 2" Rd.	0.1	0.1
Retained on 1" Rd., passing 2" Rd.	25.9	26.0
Retained on 1/2" Rd., passing 1" Rd.	20.9	46.9
Retained on 1/4" Rd., passing 1/2" Rd.	16.0	62.9
Retained on No. 8, passing 1/4" Rd.	12.3	75.2
Retained on No. 16, passing No. 8	8.4	83.6
Retained on No. 30, passing No. 16	6.6	90.2
Retained on No. 50, passing No. 30	4.0	94.2
Retained on No. 100, passing No. 50	1.8	96.0
Passing No. 100	4.0	100.0

Respectfully submitted,  
COMMERCIAL TESTING & ENGINEERING CO.



R. A. HOUSER, Manager, Midwest Division C-61.

Charter Member

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USE OR DISCLOSURE OF REPORT DATA  
IS SUBJECT TO THE RESTRICTION ON THE  
NOTICE PAGE AT THE FRONT OF THIS REPORT

# COMMERCIAL TESTING & ENGINEERING CO.

GENERAL OFFICES: 228 NORTH LA SALLE STREET, CHICAGO, ILLINOIS 60601 AREA CODE 312 726-8434



PLEASE ADDRESS ALL CORRESPONDENCE TO:  
16130 VAN DRUNEN RD., P.O. BOX 127  
SOUTH HOLLAND, IL 60473  
OFFICE TEL (312) 264-1173

► TEXAS EASTERN SYNFUELS  
Houston, TX 77001

February 5, 1982

Sample identification  
by CT&E Company

Kind of sample reported to us	Coal	Tri-State Synfuels Project Amax Coal Company Delta Mine Plus 1/4" screen fraction. AX-5
Sample taken at	Delta Mine Saline County, Illinois	
Sample taken by	CT&E	
Date sampled	June 18, 1981	
Date received	June 18, 1981	

Analysis report no. 71-74328

## SCREEN ANALYSIS

	<u>Percent Weight</u>	<u>Cumulative Percent Wt.</u>
Retained on 2" Rd.	0.2	0.2
Retained on 1" Rd., passing 2" Rd.	41.2	41.4
Retained on 1/2" Rd., passing 1" Rd.	33.2	74.6
Retained on 1/4" Rd., passing 1/2" Rd.	25.4	100.0

Respectfully submitted,  
COMMERCIAL TESTING & ENGINEERING CO.

*R. A. Houser*

R. A. HOUSER, Manager, Midwest Division C-62.



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TEXAS EASTERN SYNFUELS  
Houston, TX 77001

February 5, 1982

Sample identification  
by CT&E Company

Kind of sample      Coal  
reported to us

Sample taken at    Delta Mine  
                     Saline County, Illinois

Sample taken by    CT&E

Date sampled        June 18, 1981

Date received       June 18, 1981

Tri-State Synfuels Project  
Amax Coal Company  
Delta Mine  
Minus 1/4" screen fraction.  
AX-6

Analysis report no. 71-74329

## SCREEN ANALYSIS

	<u>Percent Weight</u>	<u>Cumulative Percent Wt.</u>
Retained on No. 8, passing 1/4" Rd.	33.2	33.2
Retained on No. 16, passing No. 8	22.6	55.8
Retained on No. 30, passing No. 16	17.8	73.6
Retained on No. 50, passing No. 30	10.8	84.4
Retained on No. 100, passing No. 50	4.8	89.2
Passing No. 100	10.8	100.0

Respectfully submitted,  
COMMERCIAL TESTING & ENGINEERING CO.

*R. A. Houser*  
R. A. HOUSER, Manager, Midwest Division C-63.



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MOBILE AL - NEW ORLEANS LA - NEW ORLEANS LA - NORFOLK VA - PALM BEACH FL - PINEVILLE KY - SALT LAKE UT - SOUTH HOLLAND IL - TOLEDO OH - WABASH IN

Charter Member