



June 1, 2004

RAG PENNSYLVANIA SERVICES CORP
158 PORTAL ROAD
PO BOX 1020
WAYNESEBURG PA 15370
ATTN: BRIAN SHAFFER

Sample identification by
Client

EM-04-05
First Rider
As Received Weight: 0.7 lb
Crushed to Pass 3/4" Rd
P.O. #G25187

Kind of sample reported to us Coal

Sample taken at Emerald

Sample taken by -----

Date sampled April 28, 2004

Date received May 6, 2004

Raw Head Sample

Analysis Report No. 63-41412

SHORT PROXIMATE ANALYSIS

	<u>As Received</u>	<u>Dry Basis</u>		
% Moisture	1.57	xxxxxx		
% Ash	26.50	26.92		
Btu/lb	10709	10880	MAF	14888
% Sulfur	8.17	8.30		



Respectfully submitted,
SGS NORTH AMERICA INC.

Henderson Laboratory

SGS North America Inc. | Minerals Services Division
P.O. Box 752, Henderson, KY 42419 t (270) 827-1187 f (270) 826-0719 www.sgs.com



RAG PENNSYLVANIA SEAMLESS COAL
WAYNESEBURG PA

EM-04-05 FIRST RIDER COAL
878.20 and 878.50
Date sampled 04-28-2004
Sample wt. 0.70
Crushed to size 3/4"RD * 0

Core sample

Lab no. 63-41412 A

June 1, 2004

SIEVE ANALYSIS

1.	2	3	4	5	6	7	8	9	10	11	12	13	14
Passing	Retained on	% Wt	% Ash	% Sul	Btu	% Wt	% Ash	% Sul	Btu	% Wt	% Ash	% Sul	Btu
3/4" RD	14M	89.59	23.77	6.06	11148	89.59	23.77	6.06	11148	100.00	XXXXXXXX	XXXXXXXX	XXXXXX
14M	65M	8.97	35.00	4.71	8933	98.56	24.79	5.94	10946	10.41	XXXXXXXX	XXXXXXXX	XXXXXX
65M	0	1.44	XXXXXXXX	XXXXXXXX	XXXXXX	100.00	XXXXXXXX	XXXXXXXX	XXXXXX	1.44	XXXXXXXX	XXXXXXXX	XXXXXX

CUMULATIVE RESULTS

Passing	Retained on	% Wt	% Ash	% Sul	Btu	% Wt	% Ash	% Sul	Btu	% Wt	% Ash	% Sul	Btu
3/4" RD	14M	89.59	23.77	6.06	11148	89.59	23.77	6.06	11148	100.00	XXXXXXXX	XXXXXXXX	XXXXXX
14M	65M	8.97	35.00	4.71	8933	98.56	24.79	5.94	10946	10.41	XXXXXXXX	XXXXXXXX	XXXXXX
65M	0	1.44	XXXXXXXX	XXXXXXXX	XXXXXX	100.00	XXXXXXXX	XXXXXXXX	XXXXXX	1.44	XXXXXXXX	XXXXXXXX	XXXXXX



RAG PENNSYLVANIA SE. CES CORP
WAYNESEBURG PA

EM-04-05 FIRST RIDER COAL Core sample
878.20 and 878.50
Date sampled 04-28-2004
Sample wt. 0.70
Crushed to size 3/4"RD * 0

June 1, 2004

Lab no. 63-41412 A

FLOAT AND SINK ANALYSIS

1	2	3	4	5	6	7	8	9	10	11	12	13	14				
<u>SPECIFIC GRAVITY</u>		<u>CUMULATIVE RECOVERY (FLOAT)</u>												<u>CUMULATIVE REJECT (SINK)</u>			
Sink	Float	% Wt	% Ash	% Sul	Btu	% Wt	% Ash	% Sul	Btu	% Wt	% Ash	% Sul	Btu	% Wt	% Ash	% Sul	Btu
--	1.55	72.42	19.34	5.13	11895	72.42	19.34	5.13	11895	100.00	23.77	6.06	11148	6.06	11148	0	0
1.55	1.65	27.58	35.42	8.50	9186	100.00	23.77	6.06	11148	27.58	35.42	8.50	9186	0.00	0.00	0.00	0
1.65	SINK	0.00	0.00	0.00	0	100.00	23.77	6.06	11148	0.00	0.00	0.00	0	0.00	0.00	0.00	0

3/4" RD x 14M = 89.59% of Coal Sample



RAG PENNSYLVANIA SERVICES CORP
WAYNESEBURG PA

EM-04-05 FIRST RIDER COAL Core sample
878.20 and 878.50
Date sampled 04-28-2004
Sample wt. 0.70
Crushed to size 3/4"RD * 0

June 1, 2004

Lab no. 63-41412 A

FLOAT AND SINK ANALYSIS

1	2	3	4	5	6	7	8	9	10	11	12	13	14
SPECIFIC GRAVITY		CUMULATIVE RECOVERY (SINK)											
Sink	Float	% Wt	% Ash	% Sul	Btu	% Wt	% Ash	% Sul	Btu	% Wt	% Ash	% Sul	Btu
--	1.55	52.41	13.96	3.70	12896	52.41	13.96	3.70	12896	100.00	35.00	4.71	8933
1.55	1.65	47.59	58.18	5.82	4568	100.00	35.00	4.71	8933	47.59	58.18	5.82	4568
1.65	SINK	0.00	0.00	0.00	0	100.00	35.00	4.71	8933	0.00	0.00	0.00	0

14M x 65M = 8.97% of Coal Sample



RAG PENNSYLVANIA SE. - CES CORP
WAYNESEBURG PA

EM-04-05 FIRST RIDER COAL
878.20 and 878.50 Core sample
Date sampled 04-28-2004
Sample wt. xxxxxxxx
Crushed to size

Lab no. 63-41412

June 1, 2004

FLOAT AND SINK ANALYSIS

1	2	3	4	5	6	7	8	9	10	11	12	13	14
<u>SPECIFIC GRAVITY</u>		<u>CUMULATIVE RECOVERY (FLOAT)</u>											
<u>Sink</u>	<u>Float</u>	<u>% Wt</u>	<u>% Ash</u>	<u>% Sul</u>	<u>Btu</u>	<u>% Wt</u>	<u>% Ash</u>	<u>% Sul</u>	<u>Btu</u>	<u>% Wt</u>	<u>% Ash</u>	<u>% Sul</u>	<u>Btu</u>
1.55	1.55	70.60	18.98	5.03	11963	70.60	18.98	5.03	11963	100.00	24.80	5.94	10947
1.55	1.65	29.40	38.77	8.11	8506	100.00	24.80	5.94	10947	29.40	38.77	8.11	8506
1.65	SINK	0.00	0.00	0.00	0	100.00	24.80	5.94	10947	0.00	0.00	0.00	0

3/4" RD x 65M = 98.56% of Coal Sample



RAG PENNSYLVANIA SERVICES CORP
WAYNESEBURG PA

EM-04-05 FIRST RIDER COAL

878.20 and 878.50

Date sampled 04-28-2004

Sample wt. xxxxxxxx

Crushed to size

Core sample

June 1, 2004

Lab no. 63-41412

FLOAT AND SINK ANALYSIS

1	2	3	4	5	6	7	8	9	10	11	12	13	14
<u>SPECIFIC GRAVITY</u>		<u>CUMULATIVE RECOVERY (FLOAT)</u>											
<u>Sink</u>	<u>Float</u>	<u>% Wt</u>	<u>% Ash</u>	<u>% Sul</u>	<u>Btu</u>	<u>% Wt</u>	<u>% Ash</u>	<u>% Sul</u>	<u>Btu</u>	<u>% Wt</u>	<u>% Ash</u>	<u>% Sul</u>	<u>Btu</u>
1.55	SINK	70.60	18.98	5.03	11963	70.60	18.98	5.03	11963	100.00	24.80	5.94	10947
1.55	SINK	29.40	38.77	8.11	8506	100.00	24.80	5.94	10947	29.40	38.77	8.11	8506

3/4" RD x 65M = 98.56% of Coal Sample



RAG PENNSYLVANIA SERVICES CORP
WAYNESEBURG PA

EM-04-05 FIRST RIDER COAL
878.20 and 878.50 Core sample
Date sampled 04-28-2004
Sample wt. xxxxxxxx
Crushed to size

Lab no. 63-41412

June 1, 2004

FLOAT AND SINK ANALYSIS

1	2	3	4	5	6	7	8	9	10	11	12	13	14		
<u>SPECIFIC GRAVITY</u>															
Sink	Float	% Wt	% Ash	% Sul	Btu	% Wt	% Ash	% Sul	Btu	% Wt	% Ash	% Sul	Btu		
		<u>DRY BASIS</u>						<u>CUMULATIVE RECOVERY</u>						<u>CUMULATIVE REJECT</u>	
		<u>(FLOAT)</u>						<u>(SINK)</u>							
1.65	SINK	100.00	24.80	0.00	5.94	10946	100.00	24.80	5.94	10946	100.00	24.80	5.94	10946	
1.65	SINK	0.00	0.00	0.00	0	0	100.00	24.80	5.94	10946	0.00	0.00	0.00	0	
<p><u>3/4" RD x 65M = 98.56% of Coal Sample</u></p>															



June 1, 2004

RAG PENNSYLVANIA SERVICES CORP
158 PORTAL ROAD
PO BOX 1020
WAYNESEBURG PA 15370
ATTN: BRIAN SHAFFER

Sample identification by
Client

EM-04-05
Drawslate
As Received Weight: 2.2 lb
Crushed to Pass 3/4" Rd
P.O. #G25187

Kind of sample reported to us Coal

Sample taken at Emerald

Sample taken by -----

Date sampled April 28, 2004

Date received May 6, 2004

Raw Head Sample

Analysis Report No. 63-43733

SHORT PROXIMATE ANALYSIS

	<u>As Received</u>	<u>Dry Basis</u>		
% Moisture	3.20	XXXXXX		
% Ash	82.40	85.12		
Btu/lb	1089	1125	MAF	7560
% Sulfur	0.79	0.82		



Respectfully submitted,
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June 1, 2004

RAG PENNSYLVANIA SERVICES CORP
158 PORTAL ROAD
PO BOX 1020
WAYNESEBURG PA 15370
ATTN: BRIAN SHAFFER

Sample identification by
Client

EM-04-05
Pittsburgh Main Seam
As Received Weight: 11.2 lb
Crushed to Pass 3/4" Rd
P.O. #G25187

Kind of sample reported to us Coal

Sample taken at Emerald

Sample taken by -----

Date sampled April 28, 2004

Date received May 6, 2004

Raw Head Sample

Analysis Report No. 63-41407

SHORT PROXIMATE ANALYSIS

	<u>As Received</u>	<u>Dry Basis</u>		
% Moisture	1.60	xxxxxx		
% Ash	10.57	10.74		
Btu/lb	13376	13593	MAF	15229
% Sulfur	3.51	3.57		



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RAG PENNSYLVANIA SE. - CES CORP
WAYNESEBURG PA

EM-04-05 PITTSBURGH MAIN SEAM
879.30 and 886.45
Date sampled 04-28-2004
Sample wt. 11.20
Crushed to size 3/4"RD * 0

Core sample

Lab no. 63-41407 A

June 1, 2004

SIEVE ANALYSIS

1	2	3	4	5	6	7	8	9	10	11	12	13	14		
SIZE	Retained on		DRY BASIS			Retained on screen in Column 2			CUMULATIVE RESULTS					Passing screen in Column 1	
Passing	Retained on	% Wt	% Ash	% Sul	Btu	% Wt	% Ash	% Sul	Btu	% Wt	% Ash	% Sul	Btu	% Sul	Btu
3/4" RD	14M	93.43	10.47	3.32	13630	93.43	10.47	3.32	13630	100.00	10.58	3.32	13607		
14M	65M	5.19	10.94	3.18	13457	98.62	10.49	3.31	13621	6.57	12.13	3.29	13284		
65M	0	1.38	16.62	3.68	12631	100.00	10.58	3.32	13607	1.38	16.62	3.68	12631		



RAG PENNSYLVANIA SERVICES CORP
WAYNESEBURG PA

EM-04-05 PITTSBURGH MAIN SEAM

Core sample

879.30 and 886.45

Date sampled 04-28-2004

Sample wt. 11.20

Crushed to size 3/4"RD * 0

June 1, 2004

Lab no. 63-41407 A

FLOAT AND SINK ANALYSIS

1	2	3	4	5	6	7	8	9	10	11	12	13	14
<u>SPECIFIC GRAVITY</u>		<u>CUMULATIVE RECOVERY</u>											
<u>Sink</u>	<u>Float</u>	<u>% Wt</u>	<u>% Ash</u>	<u>% Sul</u>	<u>Btu</u>	<u>% Wt</u>	<u>% Ash</u>	<u>% Sul</u>	<u>Btu</u>	<u>% Wt</u>	<u>% Ash</u>	<u>% Sul</u>	<u>Btu</u>
		<u>(FLOAT)</u>						<u>(SINK)</u>					
--	1.55	92.98	8.47	2.89	13962	92.98	8.47	2.89	13962	100.00	10.47	3.32	13630
1.55	1.65	1.69	23.52	6.04	11256	94.67	8.74	2.95	13914	7.02	37.02	8.96	9232
1.65	2.00	5.33	41.30	9.89	8590	100.00	10.47	3.32	13630	5.33	41.30	9.89	8590
2.00	SINK	0.00	0.00	0.00	0	100.00	10.47	3.32	13630	0.00	0.00	0.00	0

3/4" RD x 14M = 93.43% of Coal Sample



RAG PENNSYLVANIA SEAM - CES CORP
WAYNESEBURG PA

EM-04-05 PITTSBURGH MAIN SEAM
879.30 and 886.45 Core sample
Date sampled 04-28-2004
Sample wt. 11.20
Crushed to size 3/4"RD * 0
June 1, 2004

Lab no. 63-41407 A

FLOAT AND SINK ANALYSIS

1	2	3	4	5	6	7	8	9	10	11	12	13	14
SPECIFIC GRAVITY		% Wt	% Ash	% Sul	Btu	% Wt	% Ash	% Sul	Btu	% Wt	% Ash	% Sul	Btu
Sink	Float												
1.55	1.55	93.83	7.44	2.82	14076	93.83	7.44	2.82	14076	100.00	10.94	3.18	13457
1.65	1.65	6.17	64.15	8.69	4043	100.00	10.94	3.18	13457	6.17	64.15	8.69	4043
1.65	2.00	0.00	0.00	0.00	0	100.00	10.94	3.18	13457	0.00	0.00	0.00	0
2.00	SINK	0.00	0.00	0.00	0	100.00	10.94	3.18	13457	0.00	0.00	0.00	0

14M x 65M = 5.19% of Coal Sample



June 1, 2004

RAG PENNSYLVANIA SERVICES CORP
158 PORTAL ROAD
PO BOX 1020
WAYNESEBURG PA 15370
ATTN: BRIAN SHAFFER

Sample identification by
Client

EM-04-05
Pittsburgh Main Seam
As Received Weight: 11.2 lb
Crushed to Pass 3/4" Rd
P.O. #G25187

Kind of sample Coal
reported to us

Sample taken at Emerald

Sample taken by -----

Date sampled April 28, 2004

Date received May 6, 2004

65 Mesh x 0 Screen Fraction
1.38% of Total Sample

Analysis report no. 63-41407-3

Dry Basis

% Ash	16.62		
Btu/lb	12631	MAF	15149
% Sulfur	3.68		



Respectfully submitted,
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RAG PENNSYLVANIA SEAMERIES CORP
WAYNESEBURG PA

EM-04-05 PITTSBURGH MAIN SEAM

Core sample

879.30 and 886.45

Date sampled 04-28-2004

Sample wt. xxxxxxxx

Crushed to size

June 1, 2004

Lab no. 63-41407

FLOAT AND SINK ANALYSIS

1	2	3	4	5	6	7	8	9	10	11	12	13	14
SPECIFIC GRAVITY		% Wt		% Ash		% Wt		% Sul		% Wt		% Sul	
Sink	Float												
--	1.55	93.02	8.42	2.89	13968	93.02	8.42	2.89	13968	100.00	10.50	3.31	13621
1.55	1.65	1.93	30.36	6.49	10041	94.95	8.87	2.96	13888	6.98	38.28	8.95	8991
1.65	2.00	5.05	41.30	9.89	8590	100.00	10.50	3.31	13621	5.05	41.30	9.89	8590
2.00	SINK	0.00	0.00	0.00	0	100.00	10.50	3.31	13621	0.00	0.00	0.00	0

3/4" RD x 65M = 98.62% of Coal Sample



RAG PENNSYLVANIA SEAM - CES CORP
WAYNESEBURG PA

EM-04-05 PITTSBURGH MAIN SEAM

879.30 and 886.45

Date sampled 04-28-2004

Sample wt. xxxxxxxx

Crushed to size

Core sample

June 1, 2004

Lab no. 63-41407

FLOAT AND SINK ANALYSIS

1	2	3	4	5	6	7	8	9	10	11	12	13	14
<u>SPECIFIC GRAVITY</u>													
Sink	Float	% Wt	% Ash	% Sul	Btu	% Wt	% Ash	% Sul	Btu	% Wt	% Ash	% Sul	Btu
		<u>DRY BASIS</u>						<u>CUMULATIVE RECOVERY</u>					
		<u>(FLOAT)</u>						<u>(SINK)</u>					
1.55	SINK	93.02	8.42	2.89	13968	93.02	8.42	2.89	13968	100.00	10.50	3.31	13621
1.55		6.98	38.28	8.95	8991	100.00	10.50	3.31	13621	6.98	38.28	8.95	8991

3/4" RD x 65M = 98.62% of Coal Sample



RAG PENNSYLVANIA SERVICES CORP
WAYNESEBURG PA

EM-04-05 PITTSBURGH MAIN SEAM

879.30 and 886.45 Core sample

Date sampled 04-28-2004

Sample wt. xxxxxxxx

Crushed to size

June 1, 2004

Lab no. 63-41407

FLOAT AND SINK ANALYSIS

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
SPECIFIC GRAVITY	Sink	Float	DRY BASIS			CUMULATIVE RECOVERY (FLOAT)			CUMULATIVE RECOVERY (SINK)			CUMULATIVE REJECT		
			% Wt	% Ash	% Sul	% Wt	% Ash	% Sul	% Wt	% Ash	% Sul	% Wt	% Ash	% Sul
1.65	1.65		94.95	8.86	2.96	13888	94.95	8.86	2.96	13888	100.00	10.50	3.31	13620
	SINK		5.05	41.30	9.89	8590	100.00	10.50	3.31	13620	5.05	41.30	9.89	8590

3/4" RD x .65M = 98.62% of Coal Sample



July 7, 2004

RAG PENNSYLVANIA SERVICES CORP
158 PORTAL ROAD
PO BOX 1020
WAYNESBURG PA 15370
ATTN: BRIAN SHAFFER

Sample identification by
Client

EM-04-05
Pittsburgh Main Seam
As Received Weight: 11.2 lb
Crushed to Pass 3/4" Rd
P.O. #G25187

Kind of sample Coal
reported to us

Sample taken at Emerald

Sample taken by -----

Date sampled April 28, 2004

Date received May 6, 2004

3/4" Rd x 65 Mesh
1.55 Float Composite
91.74% of Total Sample

Analysis report no. 63-41407-CP

PROXIMATE ANALYSIS

Dry Basis

% Ash 8.98
% Volatile 38.04
% Fixed Carbon 52.98

Btu/lb 13852
% Sulfur 3.16
MAF Btu 15219
Alkalies as Na₂O 0.13

4.56 + SO₂

ULTIMATE ANALYSIS

Dry Basis

% Carbon 77.00
% Hydrogen 5.08
% Nitrogen 1.39
% Sulfur 3.16
% Ash 8.98
% Oxygen (diff) 4.39
100.00

% CHLORINE 0.07*
*Methanol Washed

FUSION TEMPERATURE OF ASH, (°F)

Reducing Oxidizing

Initial Deformation (IT) 2230 2490
Softening (ST) 2430 2560
Hemispherical (HT) 2490 2600
Fluid (FT) 2530 2690

% WATER SOLUBLE ALK.

% Sodium Oxide 0.011
% Potassium Oxide 0.001

GRINDABILITY INDEX = 54 @ 1.05% Moisture
EQUILIBRIUM MOISTURE = 1.8



Respectfully submitted,
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July 7, 2004

RAG PENNSYLVANIA SERVICES CORP
158 PORTAL ROAD
PO BOX 1020
WAYNESBURG PA 15370
ATTN: BRIAN SHAFFER

Sample identification by
Client

EM-04-05
Pittsburgh Main Seam
As Received Weight: 11.2 lb
Crushed to Pass 3/4" Rd
P.O. #G25187

Kind of sample reported to us Coal

Sample taken at Emerald

Sample taken by -----

Date sampled April 28, 2004

Date received May 6, 2004

3/4" Rd x 65 Mesh
1.55 Float Composite
91.74% of Total Sample

Analysis Report No. 63-41407-CP

<u>ANALYSIS OF ASH</u>	<u>WEIGHT %, IGNITED BASIS</u>
Silicon dioxide	47.89
Aluminum oxide	24.87
Titanium dioxide	1.23
Iron oxide	16.20
Calcium oxide	3.96
Magnesium oxide	0.85
Potassium oxide	1.64
Sodium oxide	0.32
Sulfur trioxide	2.24
Phosphorus pentoxide	0.50
Strontium oxide	0.15
Barium oxide	0.13
Manganese oxide	0.02
Undetermined	0.00
	<u>100.00</u>

Silica Value = 69.51
Base:Acid Ratio = 0.31
T250 Temperature = 2530 °F

Type of Ash = BITUMINOUS
Fouling Index = 0.10
Slagging Index = 0.98



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RAG PENNSYLVANIA SERVICES CORP
 WAYNESEBURG PA
 EM-04-05
 COMPOSITE PITTSBURGH MAIN & DRAW
 Core sample

Date sampled 04-28-2004
 Sample wt. xxxxxxxx
 Crushed to size

Lab no. 63-41407

June 1, 2004

FLOAT AND SINK ANALYSIS

1	2	3	4	5	6	7	8	9	10	11	12	13	14
<u>SPECIFIC GRAVITY</u>		<u>CUMULATIVE RECOVERY</u>											
<u>Sink</u>	<u>Float</u>	<u>% Wt</u>	<u>% Ash</u>	<u>% Sul</u>	<u>Btu</u>	<u>% Wt</u>	<u>% Ash</u>	<u>% Sul</u>	<u>Btu</u>	<u>% Wt</u>	<u>% Ash</u>	<u>% Sul</u>	<u>Btu</u>
		<u>DRY BASIS</u>						<u>(SINK)</u>					
		<u>(FLOAT)</u>						<u>(SINK)</u>					
1.55	SINK	77.57	8.42	2.89	13968	77.57	8.42	2.89	13968	100.00	22.90	2.90	11546
1.55	SINK	22.43	72.96	2.93	3168	100.00	22.90	2.90	11546	22.43	72.96	2.93	3168

3/4" RD x 65M = 98.88% of Coal Sample



RAG PENNSYLVANIA SEPTICES CORP
 WAYNESEBURG PA
 EM-04-05
 COMPOSITE PITTSBURGH MAIN & DRAW
 Core sample

Date sampled 04-28-2004
 Sample wt. xxxxxxxx
 Crushed to size

Lab no. 63-41407

June 1, 2004

FLOAT AND SINK ANALYSIS

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
SPECIFIC GRAVITY	CUMULATIVE RECOVERY													
	(FLOAT)													
Sink	CUMULATIVE REJECT													
	(SINK)													
	Float	% Wt	% Ash	% Sul	Btu	% Wt	% Ash	% Sul	Btu	% Wt	% Ash	% Sul	Btu	Btu
1.65	1.65	79.19	8.86	2.96	13888	79.19	8.86	2.96	13888	100.00	22.89	2.90	11546	
SINK		20.81	76.26	2.65	2634	100.00	22.89	2.90	11546	20.81	76.26	2.65	2634	

3/4" RD x 65M = 98.88% of Coal Sample



RAG PENNSYLVANIA SERVICES CORP
 WAYNESEBURG PA
 EM-04-05
 COMPOSITE PITTSBURGH MAIN/RIDER/DRAW
 Core sample

Date sampled 04-28-2004
 Sample wt. xxxxxxxx
 Crushed to size

Lab no. 63-41407

June 1, 2004

FLOAT AND SINK ANALYSIS

1	2	3	4	5	6	7	8	9	10	11	12	13	14
<u>SPECIFIC GRAVITY</u>		<u>DRY BASIS</u>		<u>CUMULATIVE RECOVERY</u>		<u>(FLOAT)</u>		<u>(SINK)</u>		<u>CUMULATIVE REJECT</u>			
Sink	Float	% Wt	% Ash	% Sul	Btu	% Wt	% Ash	% Sul	Btu	% Wt	% Ash	% Sul	Btu
1.65	SINK	80.21	9.84	3.14	13707	80.21	9.84	3.14	13707	100.00	22.98	3.05	11516
1.65	SINK	19.79	76.25	2.66	2636	100.00	22.98	3.05	11516	19.79	76.25	2.66	2636

3/4" RD x 65M = 98.86% of Coal Sample



RAG PENNSYLVANIA SERVICES CORP
 WAYNESEBURG PA
 EM-04-05

COMPOSITE PITTSBURGH MAIN/RIDER/DRAW
 Core sample

Date sampled 04-28-2004
 Sample wt. xxxxxxxx
 Crushed to size

Lab no. 63-41407

June 1, 2004

FLOAT AND SINK ANALYSIS

1	2	3	4	5	6	7	8	9	10	11	12	13	14
<u>SPECIFIC GRAVITY</u>		<u>CUMULATIVE RECOVERY</u>											
<u>Sink</u>	<u>Float</u>	<u>% Wt</u>	<u>% Ash</u>	<u>% Sul</u>	<u>Btu</u>	<u>% Wt</u>	<u>% Ash</u>	<u>% Sul</u>	<u>Btu</u>	<u>% Wt</u>	<u>% Ash</u>	<u>% Sul</u>	<u>Btu</u>
1.55	SINK	77.23	8.90	2.99	13877	77.23	8.90	2.99	13877	100.00	22.99	3.05	11516
1.55	SINK	22.77	70.77	3.26	3509	100.00	22.99	3.05	11516	22.77	70.77	3.26	3509

3/4" RD x 65M = 98.86% of Coal Sample