


COMMERCIAL TESTING & ENGINEERING CO.

GENERAL OFFICES: 1919 SOUTH HIGHLAND AVE., SUITE 210-B, LOMBARD, ILLINOIS 60148 • (312) 953-9300

SINCE 1908

Member of the SGS Group (Société Générale de Surveillance)

 PLEASE ADDRESS ALL CORRESPONDENCE TO:
 224 SO. CARBON AVE., PRICE, UT 84501
 TELEPHONE: (801) 637-7540

September 24, 1987

 PLATEAU MINING CO
 P O Box Drawer PMC
 Price, Utah 84501

Sample identification

by Commercial Testing & Engineering

North West

Hole #1

Temperature = 127° F.

Above Increment Hole

Temperature = 185° F.

Kind of sample reported to us

Coal

Sample taken at

Castle Gate Refuse Pile

Sample taken by

Commercial Testing & Engineering Co.

Date sampled

9-14-87

Date received

9-15-87

Analysis report no. 57-24573

SHORT PROXIMATE ANALYSISFUSION TEMPERATURE OF ASH
(Degrees F.)

	<u>As Received</u>	<u>Dry Basis</u>		<u>Reducing</u>	<u>Oxidizing</u>
% Moisture	9.39	xxxxx	Initial Deformation	2195	xxxx
% Ash	30.12	33.24	Softening (H=W)	2230	xxxx
Btu/lb	8057	8892	Softening (H=1/2W)	2265	xxxx
% Sulfur	0.41	0.45	Fluid	2360	xxxx

% Air Dry Loss = 6.77

Moisture, Ash-free Btu = 13319

Pounds of SO₂ per 10⁶ Btu = 1.01

Moist, Mineral matter free Btu * = 11951

(Based on as rec'd moisture)*

Pounds of Sulfur per 10⁶ Btu = 0.51

% Residual moisture = 2.81

DP/sm

Respectfully submitted,
COMMERCIAL TESTING & ENGINEERING CO.

Manager, Price Laboratory

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



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September 24, 1987

PLATEAU MINING CO
P O Box Drawer PMC
Price, Utah 84501

Sample identification
by Commercial Testing & Engineering

North West
Hole #2
Temperature = 99° F.

Kind of sample reported to us Coal
Sample taken at Castle Gate Refuse Pile
Sample taken by Commercial Testing & Engineering Co.
Date sampled 9-14-87
Date received 9-15-87

Analysis report no. 57-24574

SHORT PROXIMATE ANALYSIS

FUSION TEMPERATURE OF ASH (Degrees F.)

	<u>As Received</u>	<u>Dry Basis</u>		<u>Reducing</u>	<u>Oxidizing</u>
% Moisture	9.36	xxxxx	Initial Deformation	2315	xxxx
% Ash	20.30	22.40	Softening (H=W)	2360	xxxx
Btu/lb	9542	10527	Softening (H=1/2W)	2390	xxxx
% Sulfur	0.41	0.45	Fluid	2440	xxxx

% Air Dry Loss = 6.05
Moisture, Ash-free Btu = 13566
Pounds of SO₂ per 10⁶ Btu = 0.86
Moist, Mineral matter free Btu * = 12230
(Based on as rec'd moisture)*
Pounds of Sulfur per 10⁶ Btu = 0.43
% Residual moisture = 3.52

Respectfully submitted,
COMMERCIAL TESTING & ENGINEERING CO.

Debra Pennington
Manager, Price Laboratory

DP/sm

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September 24, 1987

PLATEAU MINING CO
P O Box Drawer PMC
Price, Utah 84501

Sample identification
by Commercial Testing & Engineering

North West
Hole #3

Kind of sample
reported to us Coal

Sample taken at Castle Gate Refuse Pile

Sample taken by Commercial Testing & Engineering Co.

Date sampled 9-14-87

Date received 9-15-87

Analysis report no. 57-24575

SHORT PROXIMATE ANALYSIS

FUSION TEMPERATURE OF ASH (Degrees F.)

	<u>As Received</u>	<u>Dry Basis</u>		<u>Reducing</u>	<u>Oxidizing</u>
% Moisture	9.22	xxxxx	Initial Deformation	2195	xxxx
% Ash	28.57	31.47	Softening (H=W)	2260	xxxx
Btu/lb	8420	9275	Softening (H=1/2W)	2300	xxxx
% Sulfur	0.40	0.44	Fluid	2360	xxxx

% Air Dry Loss = 6.71
 Moisture, Ash-free Btu = 13534
 Pounds of SO₂ per 10⁶ Btu = 0.95
 Moist, Mineral matter free Btu * = 12187
 (Based on as rec'd moisture)*
 Pounds of Sulfur per 10⁶ Btu = 0.47
 % Residual moisture = 2.69

DP/sm

Respectfully submitted,
COMMERCIAL TESTING & ENGINEERING CO.

Darlene Pennington
Manager, Price Laboratory

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September 24, 1987

PLATEAU MINING CO
P O Box Drawer PMC
Price, Utah 84501

Sample identification
by Commercial Testing & Engineering

North West
Hole #4

Kind of sample reported to us Coal

Sample taken at Castle Gate Refuse Pile

Sample taken by Commercial Testing & Engineering Co.

Date sampled 9-14-87

Date received 9-15-87

Analysis report no. 57-24576

SHORT PROXIMATE ANALYSIS

FUSION TEMPERATURE OF ASH (Degrees F.)

	<u>As Received</u>	<u>Dry Basis</u>		<u>Reducing</u>	<u>Oxidizing</u>
% Moisture	15.25	xxxxx	Initial Deformation	2190	xxxx
% Ash	19.70	23.24	Softening (H=W)	2255	xxxx
Btu/lb	8894	10494	Softening (H=1/2W)	2295	xxxx
% Sulfur	0.39	0.46	Fluid	2400	xxxx

% Air Dry Loss = 10.63
 Moisture, Ash-free Btu = 13671
 Pounds of SO₂ per 10⁶ Btu = 0.88
 Moist, Mineral matter free Btu * = 11304
 (Based on as rec'd moisture)*
 Pounds of Sulfur per 10⁶ Btu = 0.44
 % Residual moisture = 5.17

DP/sm

Respectfully submitted,
COMMERCIAL TESTING & ENGINEERING CO.

Manager, Price Laboratory

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September 24, 1987

PLATEAU MINING CO
P O Box Drawer PMC
Price, Utah 84501

Sample identification
by

Commercial Testing & Engineering Co.

Kind of sample
reported to us Coal

North West
Hole #5

Sample taken at Castle Gate Refuse Pile

Sample taken by Commercial Testing & Engineering Co.

Date sampled 9-14-87

Date received 9-15-87

Analysis report no. 57-24577

SHORT PROXIMATE ANALYSIS

FUSION TEMPERATURE OF ASH (Degrees F.)

	<u>As Received</u>	<u>Dry Basis</u>		<u>Reducing</u>	<u>Oxidizing</u>
% Moisture	15.88	xxxxx	Initial Deformation	2124	xxxx
% Ash	8.01	9.52	Softening (H=W)	2133	xxxx
Btu/lb	10538	12527	Softening (H=1/2W)	2142	xxxx
% Sulfur	0.36	0.43	Fluid	2295	xxxx

% Air Dry Loss = 11.80
 Moisture, Ash-free Btu = 13845
 Pounds of SO₂ per 10⁶ Btu = 0.69
 Moist, Mineral matter free Btu * = 11541
 (Based on as rec'd moisture)*
 Pounds of Sulfur per 10⁶ Btu = 0.34
 % Residual moisture = 4.63

DP/sm

Respectfully submitted,
COMMERCIAL TESTING & ENGINEERING CO.

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September 24, 1987

PLATEAU MINING CO
P O Box Drawer PMC
Price, Utah 84501

Sample identification
by

Commercial Testing & Engineering

South West
Hole #6

Kind of sample
reported to us

Coal

Sample taken at

Castle Gate Refuse Pile

Sample taken by

Commercial Testing & Engineering Co.

Date sampled

9-11-87

Date received

9-15-87

Analysis report no. 57-24578

SHORT PROXIMATE ANALYSIS

FUSION TEMPERATURE OF ASH (Degrees F.)

	<u>As Received</u>	<u>Dry Basis</u>		<u>Reducing</u>	<u>Oxidizing</u>
% Moisture	19.67	xxxxx	Initial Deformation	2200	xxxx
% Ash	15.57	19.38	Softening (H=W)	2234	xxxx
Btu/lb	8803	10959	Softening (H=1/2W)	2253	xxxx
% Sulfur	0.38	0.47	Fluid	2402	xxxx

% Air Dry Loss = 14.21
 Moisture, Ash-free Btu = 13593
 Pounds of SO₂ per 10⁶ Btu = 0.86
 Moist, Mineral matter free Btu * = 10586
 (Based on as rec'd moisture)*
 Pounds of Sulfur per 10⁶ Btu = 0.43
 % Residual moisture = 6.36

DP/sm

Respectfully submitted,
COMMERCIAL TESTING & ENGINEERING CO.

Manager, Price Laboratory

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September 24, 1987

PLATEAU MINING CO
P O Box Drawer PMC
Price, Utah 84501

Sample identification

by

Commercial Testing & Engineering

South West

Hole #7

Kind of sample

reported to us Coal

Sample taken at Castle Gate Refuse Pile

Sample taken by Commercial Testing & Engineering Co.

Date sampled 9-11-87

Date received 9-15-87

Analysis report no. 57-24579

SHORT PROXIMATE ANALYSIS

FUSION TEMPERATURE OF ASH (Degrees F.)

	<u>As Received</u>	<u>Dry Basis</u>		<u>Reducing</u>	<u>Oxidizing</u>
% Moisture	9.96	xxxxx	Initial Deformation	2249	xxxx
% Ash	35.12	39.01	Softening (H=W)	2276	xxxx
Btu/lb	7337	8149	Softening (H=1/2W)	2305	xxxx
% Sulfur	0.38	0.42	Fluid	2502	xxxx

% Air Dry Loss = 7.28
 Moisture, Ash-free Btu = 13361
 Pounds of SO₂ per 10⁶ Btu = 1.03
 Moist, Mineral matter free Btu * = 11830
 (Based on as rec'd moisture)*
 Pounds of Sulfur per 10⁶ Btu = 0.52
 % Residual moisture = 2.89

Respectfully submitted,
COMMERCIAL TESTING & ENGINEERING CO.

Orville Pennington
Manager, Price Laboratory

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DP/sm

OVER 40 BRANCH LABORATORIES STRATEGICALLY LOCATED IN PRINCIPAL COAL MINING AREAS,
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Price, Utah 84501

Sample identification
by Commercial Testing & Engineering

South West
Hole #8

Kind of sample
reported to us Coal

Sample taken at Castle Gate Refuse Pile

Sample taken by Commercial Testing & Engineering Co.

Date sampled 9-11-87

Date received 9-15-87

Analysis report no. 57-24580

SHORT PROXIMATE ANALYSIS

FUSION TEMPERATURE OF ASH (Degrees F.)

	<u>As Received</u>	<u>Dry Basis</u>		<u>Reducing</u>	<u>Oxidizing</u>
% Moisture	4.91	xxxxx	Initial Deformation	2644	xxxx
% Ash	58.11	61.11	Softening (H=W)	2669	xxxx
Btu/lb	4048	4257	Softening (H=1/2W)	2691	xxxx
% Sulfur	0.35	0.37	Fluid	+2700	xxxx

% Air Dry Loss = 2.69
 Moisture, Ash-free Btu = 10946
 Pounds of SO₂ per 10⁶ Btu = 1.74
 Moist, Mineral matter free Btu * = 10879
 (Based on as rec'd moisture)*
 Pounds of Sulfur per 10⁶ Btu = 0.87
 % Residual moisture = 2.28

Respectfully submitted,
COMMERCIAL TESTING & ENGINEERING CO.

Debra Pennington
Manager, Price Laboratory

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DP/sm

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Price, Utah 84501

Sample identification
by Commercial Testing & Engineering

South West
Hole #9

Kind of sample reported to us Coal
Sample taken at Castle Gate Refuse Pile
Sample taken by Commercial Testing & Engineering Co.
Date sampled 9-11-87
Date received 9-15-87

Analysis report no. 57-24581

SHORT PROXIMATE ANALYSIS

FUSION TEMPERATURE OF ASH (Degrees F.)

	<u>As Received</u>	<u>Dry Basis</u>
% Moisture	5.84	xxxxx
% Ash	52.09	55.32
Btu/lb	5170	5491
% Sulfur	0.57	0.61

	<u>Reducing</u>	<u>Oxidizing</u>
Initial Deformation	2370	xxxx
Softening (H=W)	2399	xxxx
Softening (H=1/2W)	2426	xxxx
Fluid	2556	xxxx

% Air Dry Loss = 3.83
Moisture, Ash-free Btu = 12290
Pounds of SO₂ per 10⁶ Btu = 2.22
Moist, Mineral matter free Btu * = 11839
(Based on as rec'd moisture)*
Pounds of Sulfur per 10⁶ Btu = 1.11
% Residual moisture = 2.09

DP/sm

Respectfully submitted,
COMMERCIAL TESTING & ENGINEERING CO.

Dorlene Pennington
Manager, Price Laboratory

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Price, Utah 84501

Sample identification
by Commercial Testing & Engineering

South West
Hole #10

Kind of sample
reported to us Coal

Sample taken at Castle Gate Refuse Pile

Sample taken by Commercial Testing & Engineering Co.

Date sampled 9-11-87

Date received 9-15-87

Analysis report no. 57-24582

SHORT PROXIMATE ANALYSIS

FUSION TEMPERATURE OF ASH (Degrees F.)

	<u>As Received</u>	<u>Dry Basis</u>		<u>Reducing</u>	<u>Oxidizing</u>
% Moisture	12.20	xxxxx	Initial Deformation	2171	xxxx
% Ash	19.89	22.65	Softening (H=W)	2199	xxxx
Btu/lb	9267	10555	Softening (H=1/2W)	2224	xxxx
% Sulfur	0.40	0.45	Fluid	2428	xxxx

% Air Dry Loss = 9.00
Moisture, Ash-free Btu = 13646
Pounds of SO₂ per 10⁶ Btu = 0.85
Moist, Mineral matter free Btu * = 11810
(Based on as rec'd moisture)*
Pounds of Sulfur per 10⁶ Btu = 0.43
% Residual moisture = 3.52

DP/sm

Respectfully submitted,
COMMERCIAL TESTING & ENGINEERING CO.

Debra Pennington
Manager, Price Laboratory

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September 24, 1987

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P O Box Drawer PMC
Price, Utah 84501

Sample identification
by
Commercial Testing & Engineering

Kind of sample
reported to us Coal

North East
Hole #11

Sample taken at Castle Gate Refuse Pile

Sample taken by Commercial Testing & Engineering Co.

Date sampled 9-10-87

Date received 9-15-87

Analysis report no. 57-24583

SHORT PROXIMATE ANALYSIS

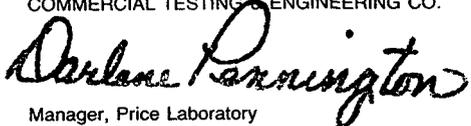
FUSION TEMPERATURE OF ASH (Degrees F.)

	<u>As Received</u>	<u>Dry Basis</u>
% Moisture	7.19	xxxxx
% Ash	23.82	25.66
Btu/lb	9194	9906
% Sulfur	0.45	0.48

	<u>Reducing</u>	<u>Oxidizing</u>
Initial Deformation	2210	xxxx
Softening (H=W)	2231	xxxx
Softening (H=l/2W)	2278	xxxx
Fluid	2409	xxxx

% Air Dry Loss = 3.31
 Moisture, Ash-free Btu = 13325
 Pounds of SO₂ per 10⁶ Btu = 0.97
 Moist, Mineral matter free Btu * = 12389
 (Based on as rec'd moisture)*
 Pounds of Sulfur per 10⁶ Btu = 0.48
 % Residual moisture = 4.01

DP/sm

Respectfully submitted,
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 Manager, Price Laboratory

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Price, Utah 84501

Sample identification
by
Commercial Testing & Engineering

Kind of sample
reported to us Coal

North East
Hole #12

Sample taken at Castle Gate Refuse Pile

Sample taken by Commercial Testing & Engineering Co.

Date sampled 9-10-87

Date received 9-15-87

Analysis report no. 57-24584

SHORT PROXIMATE ANALYSIS

FUSION TEMPERATURE OF ASH (Degrees F.)

	<u>As Received</u>	<u>Dry Basis</u>		<u>Reducing</u>	<u>Oxidizing</u>
% Moisture	9.01	xxxxx	Initial Deformation	2188	xxxx
% Ash	21.43	23.55	Softening (H=W)	2215	xxxx
Btu/lb	9508	10449	Softening (H=1/2W)	2229	xxxx
% Sulfur	0.56	0.61	Fluid	2335	xxxx

% Air Dry Loss = 5.73
Moisture, Ash-free Btu = 13668
Pounds of SO₂ per 10⁶ Btu = 1.17
Moist, Mineral matter free Btu * = 12384
(Based on as rec'd moisture)*
Pounds of Sulfur per 10⁶ Btu = 0.58
% Residual moisture = 3.48

Respectfully submitted,
COMMERCIAL TESTING & ENGINEERING CO.

Dorlene Pennington
Manager, Price Laboratory

DP/sm

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September 24, 1987

PLATEAU MINING CO
P O Box Drawer PMC
Price, Utah 84501

Sample identification
by
Commercial Testing & Engineering

Kind of sample
reported to us
Coal

North East
Hole #13

Sample taken at
Castle Gate Refuse Pile

Sample taken by
Commercial Testing & Engineering Co.

Date sampled
9-10-87

Date received
9-15-87

Analysis report no. 57-24585

SHORT PROXIMATE ANALYSIS

FUSION TEMPERATURE OF ASH (Degrees F.)

	<u>As Received</u>	<u>Dry Basis</u>		<u>Reducing</u>	<u>Oxidizing</u>
% Moisture	7.20	xxxxx	Initial Deformation	2325	xxxx
% Ash	36.21	39.02	Softening (H=W)	2362	xxxx
Btu/lb	7622	8213	Softening (H=1/2W)	2393	xxxx
% Sulfur	0.40	0.43	Fluid	2525	xxxx

% Air Dry Loss = 4.66
Moisture, Ash-free Btu = 13468
Pounds of SO₂ per 10⁶ Btu = 1.05
Moist, Mineral matter free Btu * = 12529
(Based on as rec'd moisture)*
Pounds of Sulfur per 10⁶ Btu = 0.52
% Residual moisture = 2.66

DP/sm

Respectfully submitted,
COMMERCIAL TESTING & ENGINEERING CO.

- Manager, Price Laboratory

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TIDEWATER AND GREAT LAKES PORTS, AND RIVER LOADING FACILITIES



COMMERCIAL TESTING & ENGINEERING CO.

GENERAL OFFICES: 1919 SOUTH HIGHLAND AVE., SUITE 210-B, LOMBARD, ILLINOIS 60148 • (312) 953-9300

SINCE 1908

Member of the SGS Group (Société Générale de Surveillance)

PLEASE ADDRESS ALL CORRESPONDENCE TO:
224 SO. CARBON AVE., PRICE, UT 84501
TELEPHONE: (801) 637-7540

PLATEAU MINING CO
P O Box Drawer PMC
Price, Utah 84501

September 24, 1987

Sample identification
by
Commercial Testing & Engineering

Kind of sample
reported to us Coal

North East
Hole #14

Sample taken at Castle Gate Refuse Pile

Sample taken by Commercial Testing & Engineering Co.

Date sampled 9-10-87

Date received 9-15-87

Analysis report no. 57-24586

SHORT PROXIMATE ANALYSIS

FUSION TEMPERATURE OF ASH (Degrees F.)

	<u>As Received</u>	<u>Dry Basis</u>		<u>Reducing</u>	<u>Oxidizing</u>
% Moisture	7.99	xxxxx	Initial Deformation	2135	xxxx
% Ash	18.79	20.42	Softening (H=W)	2156	xxxx
Btu/lb	10004	10873	Softening (H=1/2W)	2175	xxxx
% Sulfur	0.41	0.45	Fluid	2300	xxxx

% Air Dry Loss = 4.41
 Moisture, Ash-free Btu = 13663
 Pounds of SO₂ per 10⁶ Btu = 0.83
 Moist, Mineral matter free Btu * = 12561
 (Based on as rec'd moisture)*
 Pounds of Sulfur per 10⁶ Btu = 0.41
 % Residual moisture = 3.75

DP/sm

Respectfully submitted,
COMMERCIAL TESTING & ENGINEERING CO.

Manager, Price Laboratory

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



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September 24, 1987

PLATEAU MINING CO
P O Box Drawer PMC
Price, Utah 84501

Sample identification
by
Commercial Testing & Engineering

Kind of sample
reported to us Coal

North East
Hole #15

Sample taken at Castle Gate Refuse Pile

Sample taken by Commercial Testing & Engineering Co.

Date sampled 9-10-87

Date received 9-15-87

Analysis report no. 57-24587

SHORT PROXIMATE ANALYSIS

FUSION TEMPERATURE OF ASH (Degrees F.)

	<u>As Received</u>	<u>Dry Basis</u>
% Moisture	9.14	xxxxx
% Ash	22.09	24.31
Btu/lb	9230	10159
% Sulfur	0.40	0.44

	<u>Reducing</u>	<u>Oxidizing</u>
Initial Deformation	2221	xxxx
Softening (H=W)	2268	xxxx
Softening (H=1/2W)	2292	xxxx
Fluid	2565	xxxx

% Air Dry Loss = 6.21
 Moisture, Ash-free Btu = 13422
 Pounds of SO₂ per 10⁶ Btu = 0.87
 Moist, Mineral matter free Btu * = 12131
 (Based on as rec'd moisture)*
 Pounds of Sulfur per 10⁶ Btu = 0.43
 % Residual moisture = 3.12

Respectfully submitted,
COMMERCIAL TESTING & ENGINEERING CO.

Debra Pennington
Manager, Price Laboratory

DP/sm

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September 24, 1987

PLATEAU MINING CO
P O Box Drawer PMC
Price, Utah 84501

Sample identification
by Commercial Testing & Engineering

Kind of sample reported to us Coal

South East
Hole #16

Sample taken at Castle Gate Refuse Pile

Sample taken by Commercial Testing & Engineering Co.

Date sampled 9-11-87

Date received 9-15-87

Analysis report no. 57-24588

SHORT PROXIMATE ANALYSIS

FUSION TEMPERATURE OF ASH (Degrees F.)

	<u>As Received</u>	<u>Dry Basis</u>
% Moisture	9.24	xxxxx
% Ash	30.17	33.24
Btu/lb	8124	8951
% Sulfur	0.44	0.49

	<u>Reducing</u>	<u>Oxidizing</u>
Initial Deformation	2311	xxxx
Softening (H=W)	2326	xxxx
Softening (H=1/2W)	2346	xxxx
Fluid	2547	xxxx

% Air Dry Loss = 5.64
 Moisture, Ash-free Btu = 13408
 Pounds of SO₂ per 10⁶ Btu = 1.09
 Moist, Mineral matter free Btu * = 12061
 (Based on as rec'd moisture)*
 Pounds of Sulfur per 10⁶ Btu = 0.55
 % Residual moisture = 3.82

DP/sm

Respectfully submitted,
COMMERCIAL TESTING & ENGINEERING CO.

Debra Pennington
Manager, Price Laboratory

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September 24, 1987 TELEPHONE: (801) 637-7540

PLATEAU MINING CO
P O Box Drawer PMC
Price, Utah 84501

Sample identification
by Commercial Testing & Engineering

South East
Hole #17

Kind of sample reported to us Coal

Sample taken at Castle Gate Refuse Pile

Sample taken by Commercial Testing & Engineering Co.

Date sampled 9-11-87

Date received 9-15-87

Analysis report no. 57-24589

SHORT PROXIMATE ANALYSIS

FUSION TEMPERATURE OF ASH (Degrees F.)

	<u>As Received</u>	<u>Dry Basis</u>		<u>Reducing</u>	<u>Oxidizing</u>
% Moisture	12.61	xxxxx	Initial Deformation	2227	xxxx
% Ash	25.50	29.18	Softening (H=W)	2312	xxxx
Btu/lb	8371	9579	Softening (H=1/2W)	2346	xxxx
% Sulfur	0.57	0.65	Fluid	2485	xxxx

% Air Dry Loss = 9.65
 Moisture, Ash-free Btu = 13526
 Pounds of SO₂ per 10⁶ Btu = 1.36
 Moist, Mineral matter free Btu * = 11563
 (Based on as rec'd moisture)*
 Pounds of Sulfur per 10⁶ Btu = 0.68
 % Residual moisture = 3.28

Respectfully submitted,
COMMERCIAL TESTING & ENGINEERING CO.

Manager, Price Laboratory

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September 24, 1987

PLATEAU MINING CO
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Price, Utah 84501

Sample identification
by
Commercial Testing & Engineering

Kind of sample reported to us Coal

South East
Hole #18

Sample taken at Castle Gate Refuse Pile

Sample taken by Commercial Testing & Engineering Co.

Date sampled 9-11-87

Date received 9-15-87

Analysis report no. 57-24590

SHORT PROXIMATE ANALYSIS

FUSION TEMPERATURE OF ASH (Degrees F.)

	<u>As Received</u>	<u>Dry Basis</u>		<u>Reducing</u>	<u>Oxidizing</u>
% Moisture	12.56	xxxxx	Initial Deformation	2272	xxxx
% Ash	27.58	31.54	Softening (H=W)	2306	xxxx
Btu/lb	8107	9271	Softening (H=1/2W)	2343	xxxx
% Sulfur	0.39	0.45	Fluid	2478	xxxx

% Air Dry Loss = 10.22
 Moisture, Ash-free Btu = 13542
 Pounds of SO₂ per 10⁶ Btu = 0.97
 Moist, Mineral matter free Btu * = 11554
 (Based on as rec'd moisture)*
 Pounds of Sulfur per 10⁶ Btu = 0.49
 % Residual moisture = 2.61

Respectfully submitted,
COMMERCIAL TESTING & ENGINEERING CO.

Manager, Price Laboratory

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Price, Utah 84501

Sample identification
by Commercial Testing & Engineering

South East
Hole #19

Kind of sample
reported to us Coal

Sample taken at Castle Gate Refuse Pile

Sample taken by Commercial Testing & Engineering Co.

Date sampled 9-11-87

Date received 9-15-87

Analysis report no. 57-24591

SHORT PROXIMATE ANALYSIS

FUSION TEMPERATURE OF ASH (Degrees F.)

	<u>As Received</u>	<u>Dry Basis</u>		<u>Reducing</u>	<u>Oxidizing</u>
% Moisture	9.77	xxxxx	Initial Deformation	2260	xxxx
% Ash	28.45	31.53	Softening (H=W)	2284	xxxx
Btu/lb	8318	9219	Softening (H=1/2W)	2310	xxxx
% Sulfur	0.40	0.44	Fluid	2560	xxxx

% Air Dry Loss = 7.04
 Moisture, Ash-free Btu = 13464
 Pounds of SO₂ per 10⁶ Btu = 0.96
 Moist, Mineral matter free Btu * = 12017
 (Based on as rec'd moisture)*
 Pounds of Sulfur per 10⁶ Btu = 0.48
 % Residual moisture = 2.94

DP/sm

Respectfully submitted,
COMMERCIAL TESTING & ENGINEERING CO.

Darlene Pennington
Manager, Price Laboratory

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September 24, 1987

PLATEAU MINING CO
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Price, Utah 84501

Sample identification
by Commercial Testing & Engineering

South East
Hole #20

Kind of sample reported to us Coal
Sample taken at Castle Gate Refuse Pile
Sample taken by Commercial Testing & Engineering Co.
Date sampled 9-11-87
Date received 9-15-87

Analysis report no. 57-24592

SHORT PROXIMATE ANALYSIS

FUSION TEMPERATURE OF ASH (Degrees F.)

	<u>As Received</u>	<u>Dry Basis</u>		<u>Reducing</u>	<u>Oxidizing</u>
% Moisture	7.76	xxxxx	Initial Deformation	2239	xxxx
% Ash	32.76	35.52	Softening (H=W)	2260	xxxx
Btu/lb	7835	8494	Softening (H=1/2W)	2270	xxxx
% Sulfur	0.38	0.41	Fluid	2331	xxxx

% Air Dry Loss = 5.16
Moisture, Ash-free Btu = 13173
Pounds of SO₂ per 10⁶ Btu = 0.97
Moist, Mineral matter free Btu * = 12135
(Based on as rec'd moisture)*
Pounds of Sulfur per 10⁶ Btu = 0.48
% Residual moisture = 2.74

Respectfully submitted,
COMMERCIAL TESTING & ENGINEERING CO.

Debra Pennington
Manager, Price Laboratory

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