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)

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PLEASE ADDRESS ALL CORRESPONDENCE TO:
P.O. BOX 1020, HUNTINGTON, UT 84528
TELEPHONE: (801) 653-2311

Utah Fuel Co.
P.O. Box 719
Helper, UT 84526

Dec. 15, 1989

RECEIVED
JAN 05 1990
DIVISION OF
OIL, GAS & MINING

Sample identification by Utah Fuel

Kind of sample reported to us	Soil	
Sample taken at	Utah Fuel	Waste Rock Sample
Sample taken by	Utah Fuel	Scofield Waste Rock Third Quarter
Date sampled	Nov. 2, 1989 (Sample taken from Gob hauled during the 3rd Quarter)	
Date received	Nov. 15, 1989	

Analysis report no. 59-107743

Neutralization Potential	86.2 tons $CaCO_3$ / 1000 tons
Maximum Acid Potential*	7.5 tons $CaCO_3$ / 1000 tons
Acid Base Account	78.7 tons $CaCO_3$ / 1000 tons

(*acid potential based on non-sulfate sulfur)

pH	8.1 units
Electrical Conductivity	5.5 mmhos/cm
Saturation Percent	21.2%
Sodium Adsorption Ratio	0.20
Particle size analysis:	
Sand	87.2%
Silt	5.9%
Clay	6.9%
Selenium (water soluble)	<0.1 ppm
Boron (water soluble)	2.5 ppm

Respectfully submitted,
COMMERCIAL TESTING & ENGINEERING CO.

Manager, Huntington 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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Utah Fuel Co.
P.O. Box 719
Helper, UT 84526

Dec. 15, 1989

Sample identification by Utah Fuel

Kind of sample reported to us	Soil	
Sample taken at	Utah Fuel	Waste Rock Sample
Sample taken by	Utah Fuel	Scofield Waste Rock Fourth Quarter
Date sampled	Nov. 2, 1989	
Date received	Nov. 15, 1989	

Analysis report no. 59-107744

Neutralization Potential	207.5 tons $CaCO_3$ / 1000 tons
Maximum Acid Potential*	16.6 tons $CaCO_3$ / 1000 tons
Acid Base Account	190.9 tons $CaCO_3$ / 1000 tons

(*acid potential based on non-sulfate sulfur)

pH	8.2 units
Electrical Conductivity	6.9 mmhos/cm
Saturation Percent	25.5%
Sodium Adsorption Ratio	0.47
Particle size analysis:	
Sand	81.1%
Silt	6.8%
Clay	12.1%
Selenium (water soluble)	<0.1 ppm
Boron (water soluble)	4.7 ppm

Respectfully submitted,
COMMERCIAL TESTING & ENGINEERING CO.

Manager, Huntington Laboratory

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