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**CASTLE
GATE**
COAL COMPANY

FILE COPY

October 31, 1986

ACT/007/004

713

RECEIVED
NOV 05 1986

DIVISION OF
OIL, GAS & MINING

D. Wayne Hedberg
Permit Supervisor
Division of Oil, Gas & Mining
Three Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

RE: Stipulation For Modification of Surface
Facilities in Hardscrabble Canyon, 16
December 1985

Dear Mr. Hedberg:

The purpose of this letter is to address the two stipulations which were attached to the approval for the Modification of Surface Facilities in Hardscrabble Canyon, dated 8 October, 1986.

Stipulation No. 1: Required Soil Analysis

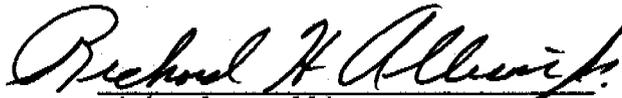
Attached is a copy of a soil analysis done by Commercial Testing of soil in the proposed parking area.

Stipulation No. 2: Filter Blanket

Castle Gate Coal Company will use a fabric filter blanket to line diversion D-7 before the placing of riprap.

This information should satisfy the Division requirements for final approval of the proposed modification.

Sincerely,


Richard H. Allison, Jr., P.E.
Project Supervisor

cc5.allison/105

COMMERCIAL TESTING & ENGINEERING CO.

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

Castle Gate Coal Company
P.O. Box 449
Helper, Utah 84526



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

October 22, 1986

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Sample identification
by

Castle Gate Coal Co.

Soil

*From 12 This yours?
[Signature]*

Kind of sample reported to us Soil
Sample taken at Castle Gate Coal Co.
Sample taken by Castle Gate Coal Co.
Date sampled 10-11-86
Date received 10-15-86

Analysis report no. 57-22258

SCREEN ANALYSIS

	PERCENT	ACCUMULATIVE PERCENT
RETAINED ON +3" ROUND, PASSING - - -	0.0	0.0
RETAINED ON 2" ROUND, PASSING +3" ROUND	5.7	5.7
RETAINED ON 1" ROUND, PASSING 2" ROUND	11.8	17.5
RETAINED ON 1/2" ROUND, PASSING 1" ROUND	16.5	34.0
RETAINED ON 4 MESH, PASSING 1/2" ROUND	13.2	47.2
RETAINED ON 8 MESH, PASSING 4 MESH	9.9	57.1
RETAINED ON 14 MESH, PASSING 8 MESH	12.2	69.3
RETAINED ON 38 MESH, PASSING 14 MESH	10.4	79.7
RETAINED ON 48 MESH, PASSING 38 MESH	3.3	83.0
RETAINED ON 100 MESH, PASSING 48 MESH	5.0	88.0
RETAINED ON 200 MESH, PASSING 100 MESH	8.2	96.2
RETAINED ON - - -, PASSING 200 MESH	3.8	100.0

Bulk Density = 26.7 lbs./cubic feet

Organics = 10.63%

Respectfully submitted,
COMMERCIAL TESTING & ENGINEERING CO.

Walter Harvey
Manager, Price Laboratory



Charter Member

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