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DIVISION OF OIL
GAS & MINING

SUBSIDENCE CONTROL PLAN
FOR
GENWAL COAL COMPANY, INC.
CRANDALL CANYON MINE
CHAPTER XII

August 15, 1985

File in:
☐ Confidential
☐ Shelf
☒ Expandable
Refer to Record No 0075 Date 8/16/85
In C/0150032, 1985, Incoming
For additional information

August 15, 1985
8185 S. Willow St.
Englewood, CO 80112

Mr. Wayne Hedberg
Department of Natural Resources
Division of Oil, Gas and Mining
355 West North Temple
3 Triad Center
Suite 350
Salt Lake City, Utah 84180-1203

Dear Wayne:

This letter is in response to the letter dated July 17, 1985 from Mr. Lowell Braxton regarding the Revised Subsidence Control Plan for Genwal Coal Company's Crandall Canyon Mine. Thank you for extending the deadline from July 31, 1985 to this week. I have addressed the questions, errors and deletions itemized in the aforementioned letter within this letter as well as in the attached report.

I have included the area north of the currently permitted area known as Tract II within this submittal. I hope this will avoid confusion and inconsistency.

The location of the anticipated maximum vertical movement of 3.9 feet is now shown on Item XII-5 as well as described within the text. The possible vertical movement of surface subsidence in feet is shown as contour lines on Item XII-5 in one foot increments. The thickness of the Hiawatha seam varies from 5.5-6.5 feet throughout the mine area except for the area shown in the shaded region on Item XII-2. No coal isopach lines are shown on any map.

The anticipated effects of planned subsidence is described within the text. The Spring and Seep Inventory completed by Earthfax Engineering, Inc. on June 12, 1985 is incorporated within the report. Slope failure is not expected to occur within the permit area. The mitigation of subsidence effects will be minimal as described within the text as no diminution of value or foreseeable use of lands is expected to occur.

The Statement of Fact has been removed from this submission as it becomes unnecessary when the permit in total must be submitted with an officer's acknowledgement of permit content. The information contained within the Statement has been incorporated within the text.

Extended description, revised calculations and factor of safety justification have been provided within the text in greater detail as requested. The success in removing the pillars in the First South Panel area without premature pillar failure is evidence of prudent and satisfactory pillar design. The

results obtained from the equations used form a basis to design pillars of extended life.

The discrepancy between the text and Item XII-8 has been corrected in regards to the vertical distance between Crandall Creek and the lease boundary.

A 50 foot barrier pillar has been left intact along the southern boundary increasing to 80 feet at the northern boundary of the permit area covered in Tract I. The angle of draw will initiate from the bleeder pillars position as shown on Item XII-8.

As described within the text, the 115 foot radius drawn from the southwest corner of the lease area can not be used on Item XII-5 because of the declining topography as the creek is approached as shown on Item XII-8.

If I can be of further assistance or if additional information is needed please feel free to contact me directly at 303-799-1045. Upon approval, send notification to the address on file for the mine. Thank you for your time and consideration.

Sincerely,

Leonard Witkowski

Leonard Witkowski