0004

Document Information Form

Mine Number: C/041/002

File Name: Incoming

To: DOGM

From:

Person N/A

Company SOUTHERN UTAH FUEL COMPANY

Date Sent: MAY 2, 1977

Explanation:

MINE PLAN

cc:

File in:
C/ 041 , 002, Incoming
Refer to:
- ☐ Confidential
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Date _____ For additional information

#2

SOUTHERN UTAH FUEL COMPANY

Mine Plan

Addendum No. 1

May 2, 1977

GEOLOGICAL SURVEY
MAY 6 1977
SALT LAKE CITY, UTAH
MINING BRANCH

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COASTAL STATES ENERGY COMPANY
Five Greenway Plaza East
Houston, Texas 77046

(713) 627-3700

May 3, 1977

U.S. Geological Survey
8426 Federal Building
125 South State Street
Salt Lake City, UT 84138

Dear Mr. Blumer:

RE: SUFCo MINE PLAN - Addendum No. 1

Enclosed are seven copies of Addendum No. 1 to the SUFCo Mine Plan with additional information as you requested in your letter of April 26, 1977.

Very truly yours,

Denis Anderson

D.R. Anderson
Environmental Coordinator

DRA/pb
Enclosures

GEOLOGICAL SURVEY
MAY 6 1977
SALT LAKE CITY, UTAH
MINING BRANCH

ADDITIONAL MAPS ENCLOSED:

Mine Layout (update 5/3/77) ---------- Map 1A
Topographic (update 5/3/77) ---------- Map 1G
Cross Section - Surface ---------- D-D'
Cross Section - Overburden ---------- A-A'
Generalized Stratigraphic Section

ADDITIONAL COMMENTS:

Page 10 - 211.10C (6) i

Nature, Extent and Reserves - (insert)

The Upper Hiawatha coal seam as produced by the mine averages 11,500 BTU, 44% ash, 8% moisture, 0.6% sulfur (overall), 38% volatile matter and 44% fixed carbon.

Page 77 - 211.10C (7) iii - (insert)

Nature and depth of various strata of overburden - see Map 1G, Cross section A-A' and Lithologic logs in 211.10C (6) xii.

Page 78 - 211.10C (7) iii - (insert)

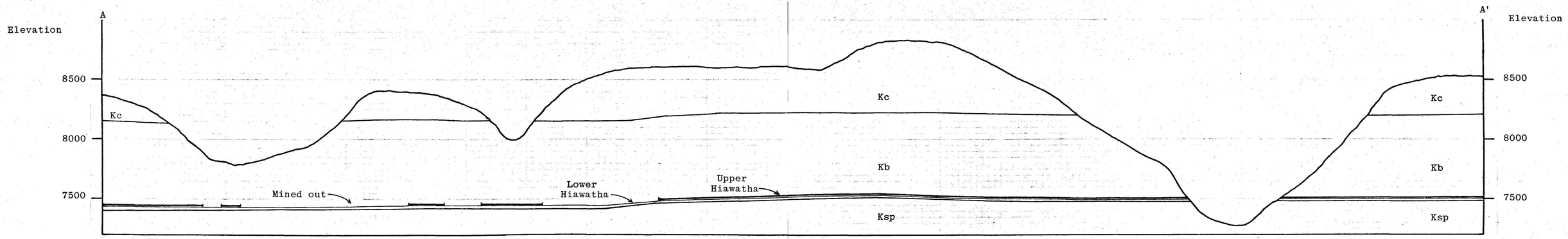
Cross sections of final surface - See Map 1-D and cross section D-D'.

Page 78 - 211.10C (7) iii - (insert)

Estimated elevation of water table and potentiometric surface -

There is not a well-established groundwater table in the rocks overlying Southern Utah Fuel Company's coal beds. The deep inside canyons in the plateau which contains the coal precludes a well-established groundwater table. SUFCo drilling to-date indicates, however that there may be several poorly-established perched water tables at various elevations in various areas. Furthermore, the underground mining done to-date indicates that there is sporadic groundwater overlying the coal bed and occasionally interconnected with it via structural lineations and faults. Our studies of the topography, the strata overlying the coal beds, and the general geologic structure of the area leads us to conclude that the perched water tables, where present, may not be affected to a great degree by mining beneath them. There will be minor drainage when interconnecting faults and lineations are tapped by the mining process.

Full extraction mining and the accompanying mild subsidence will probably not affect the perched groundwater sub-basins to a great extent, in that the delineation of the basins is probably at least partially caused by the existing geologic lineations and faults. Subsidence should be in discreet blocks which are more or less controlled by these same geologic features of structural weakness. Therefore, the perched groundwater "basins" will probably more or less subside as a unit, and not be breached. The potentiometric surface of the groundwater has not been ascertained by SUFCo for their lease area and there is no data available for a cross section. The indications are that there is no discreet potentiometric surface, but several small subsurfaces each associated with its own small perched groundwater basin. It is generally quite variable.



Cross Section A - A' (Refer to Map 1G)

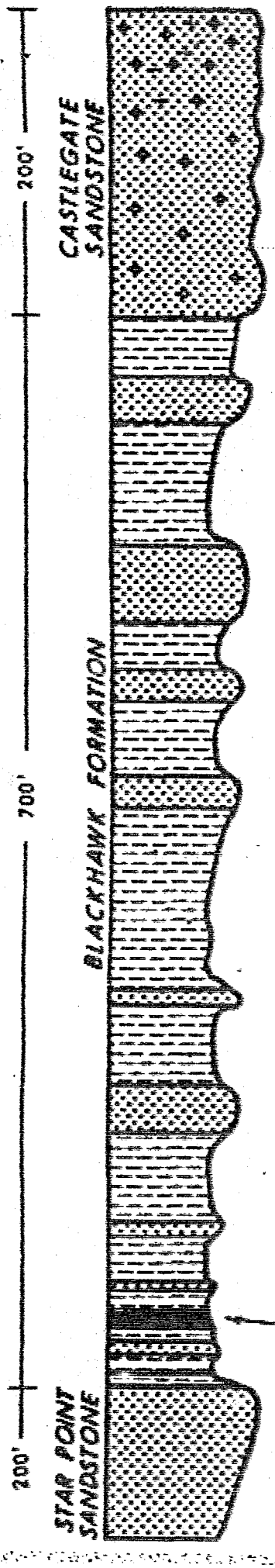
NATURE AND DEPTH OF VARIOUS STRATA OF OVERBURDEN

Vertical Scale 1" = 500' Horizontal Scale 1" = 1000'

JJS 5/2/77

GENERALIZED STRATIGRAPHIC SECTION

U - 28297 APPLICATION



LIGHT - GRAY TO WHITE, MEDIUM - TO COARSE - GRAINED SANDSTONE, CONGLOMERATIC IN PART

MEDIUM - GRAY TO BLACK SHALE, SILTY SHALE, AND CLAYSTONE, WITH ABUNDANT LIGHT - GRAY, VERY FINE - TO MEDIUM - GRAINED SANDSTONE BEDS AND LENSES, AND SPARSE MEDIUM - GRAY, THIN - BEDDED SILTSTONE

UPPER HIAWATHA SEAM

AVERAGES 9 FEET IN THICKNESS, THICKER TOWARDS THE NORTHWEST AND THINNER TOWARDS THE SOUTHEAST.

Bottom Of Seam 20 Feet To 40 Feet Above Top Of Star Point Sandstone

LIGHT - GRAY TO WHITE, VERY FINE - TO MEDIUM - GRAINED, BURROWED SANDSTONE WITH SORTINGS AND GRAIN SIZE INCREASING UPWARDS