FILE ACT/015/018 A #3

0022

Copy to: Mary B.
Cy
Ev H.
Tom M.
Pam G.

UTAH POWER & LIGHT COMPANY

1407 WEST NORTH TEMPLE STREET
P. O. BOX 899
SALT LAKE CITY, UTAH 84110

July 18, 1983

copy sent to OSM 7/21/83

Ms. Mary M. Boucek
State of Utah
Department of Natural Resources
Division of Oil, Gas and Mining
4241 State Office Building
Salt Lake City, Utah 84114

RECEIVED
JUL 20 1983
DIVISION OF
OIL, GAS & MINING

RE: Meetinghouse Lease Modification
Deer Creek Mine
ACT/015/018A
Folder No. 3
Emery County, Utah

Dear Mrs. Boucek:

In reply to your request of May 6, we submit the following additional information:

UMC 783.14 - Geology Description

No core samples have been taken from the Meetinghouse lease, therefore, no analyses are available.

UMC 783.25 - Cross-Sections, Maps and Plans

The attached certification is for the maps in the application.

UMC 784.11 - Operation Plan

As stated in the application, the ventilation breakouts will be opened from within the mine. There will be no portal pads or facilities on the surface.

UMC 784.13 - Reclamation Plan: General Requirements

Total surface disturbance will consist of only the three 8'x20' openings. All coal, waste and soil will be gathered and brought into the entry. Portals will be sealed as detailed in Section 4, Page 1 of the permit application. Topsoil will be distributed and sloped to match the existing surface configuration and revegetated as directed by the USFS and DOGM.

UMC 784.19 - Underground Development Waste

Underground development waste will be disposed of in the underground disposal area south of the slope, as shown on the Blind Canyon Coal Seam, Five-Year Mine Plan (CM-10396-DR, Sheet 1 of 3).

UMC - 784.20 - Subsidence Control Plan

Prior to retreat mining of this area, the applicant will establish subsidence monitoring stations over panels to be mined out which will be included as part of the annual Subsidence Monitoring Report.

Hydrology

1. The volume of water flowing into the Meetinghouse Canyon drainage is monitored as part of our hydrologic monitoring plan. However, to insure that accurate data is obtained the applicant will install a partial flume. The Division's input will be considered when selecting a location to place the flume. Monitoring of the stream will continue for several years after mining has been completed.

2. Where mining takes place below the south fork of the Meetinghouse Creek, the mine plan is designed so that no longwall panels or pillars are removed from this area, this protecting the intermittent stream and the power line from subsidence.

3. The overburden above the upper minable coal seam within the Meetinghouse lease is illustrated on the Blind Canyon seam overburden isopach map (CE-10330-EM) which is included in the applicant's response to the completeness review. The thickness of overburden along the stream channel ranges from 250 feet near the boundary of lease U-022918 (Kingston) to greater than 500 feet along the west boundary of the lease.

4. The major rock type which makes up the overburden above the Blind Canyon seam in Meetinghouse Canyon is fluvial sandstone within the Blackhawk Formation. Some minor zones of mudstone and carbonaceous mudstone are present and act as aquicludes on any surface water which percolate down through the strata. The nature of the lithology of overburden is illustrated on drilling log EM-39 included herein. The applicant has adopted

the practice of monitoring the groundwater influx in the mines. This practice will continue throughout the mining within the Meetinghouse lease.

Please advise if you should require additional information.

Yours truly,

Wm. C. McLean

for C. E. Shingleton
Director of Services
Mining and Exploration

CES:BMcQ:bb:3994
Encl.

COAL LITHOLOGIC LOG
UTAH POWER & LIGHT COMPANY
DEPT. OF MINING & EXPLORATION

Detailed log

PROJECT: EAST MOUNTAIN DRILL HOLE: EM-39

LOCATION: 1075'N, 100'E; SW 3
COLLAR ELEV.: 7925 (est)
HOLE TYPE: PLUG
PLUG INTERVAL: 0-400
CORE INTERVAL: —
TOTAL DEPTH: 400
DATE: 16 OCT. 1982
SCALE: 1" = 10'
GEOLOGIST: Semborski: Snider

GEOPHYSICAL DATA

LOG	FROM	TO
DENSITY:	190	375
H.R.D.:	150	390
E. LOG:	190	375
GAMMA:	150	390
CALIPER:		
S.P.:		

COAL SUMMARY:

SEAM	THICKNESS	INT.
BC	10.0	76.4
HIAW	4.4	

DEPTH	PLUG	CORE	GRAPHIC LOG	FORMATION NAME	LITHOLOGIC DESCRIPTION	R.Q.D.	BOX NO.	RUN NO.	% REC.	SAMPLE
150				BLACKHAWK FORMATION	150-170' SANDSTONE: lt brown, fine grnd, mod sorted, rnd					
160										
170					170-180' CMS; dk gray to black					
180					180-186' SANDSTONE; silty					
					186-200.5' SILTSTONE: med gray, muddy in part					
200					200.5-207' LIMESTONE; silty in part					
					207-231.5' SANDSTONE; lt gray, fine to med grnd, UFS					
230										

COAL LITHOLOGIC LOG

UTAH POWER & LIGHT COMPANY

DEPT. OF MINING & EXPLORATION

PROJECT: EAST MTN

DRILL HOLE: EM-39

PAGE 2 OF 3

DEPTH	PLUG	CORE	GRAPHIC LOG	FORMATION NAME	LITHOLOGIC DESCRIPTION	R.Q.D.	BOX NO.	RUN NO.	% REC.	SAMPLE
220					207-231.5' SANDSTONE; see above					
230					231.5-237.7' SILTSTONE; muddy					
					237.7-239.1' COAL; 1.4 — BLIND CANYON					
					boney: 237.7-238'; 238.3-238.5					
240					239.1-239.3' CMS - BONE COAL					
					239.3-239.8' COAL: 0.5'					
					239.8-240.' BONE COAL; 0.2'					
					240-243.7' COAL: 3.7'					
					243.7-244.1' BONE COAL; 0.4'					
					244.1-247.9' COAL: 3.8'					
250					247.9-253.5' MUDSTONE; dk gray, some CMS					
				BLACKHAWK	253.5-324.3' SANDSTONE; lt gray, fine grnd, well sorted, rnd					
260										
270										
280										
290										
300										
310										

COAL LITHOLOGIC LOG

UTAH POWER & LIGHT COMPANY

DEPT. OF MINING & EXPLORATION

PROJECT: EAST MTN

DRILL HOLE: EM-39

PAGE 3 OF 3

DEPTH	PLUG	CORE	GRAPHIC LOG	FORMATION NAME	LITHOLOGIC DESCRIPTION	R.Q.D.	BOX NO.	RUN NO.	% REC.	SAMPLE
310					253.5 - 324.3' SANDSTONE ; as above					
320										
				BLACKHAWK	324.3 - 325.2' COAL ; 0.9' HIAWATHA					
					325.2 - 325.8' BONE COAL ; 0.6'					
					325.8 - 326.4' COAL ; 0.6'					
330					326.4 - 327.7' BONE COAL ; 1.3'					
					327.7 - 328.7' COAL ; 1.0'					
					328.7 - 336.5' MUDSTONE ; 7.8'					
					336.5 - 338' COAL ; 1.5' HIAWATHA					
340					338 - 343' MUDSTONE ; 5.0' CMS at top					
					343 - 343.4' COAL ; 0.4'					
				STAR POINT	343.4 - 400' SANDSTONE ; lt gray, fine grnd well sorted, rnd STAR POINT SS.					
350										
360										
370										
380										
390										
400										

CERTIFICATION

STATE OF UTAH)
: ss
County of Salt Lake)

Except as otherwise indicated thereon, all maps, plans, and cross sections submitted with this application have been prepared under the supervision of Don A. Dewey, a registered Professional Engineer of the State of Colorado, who hereby certifies to the correctness thereof.

Don A. Dewey, P.E.
(Professional Engineer #6522)