

106/RLJ/84/06/11

JUN 15 1984

- 1 -

Mr. Jefferson O. Neff, Program Manager
Salt Repository Project Office
Department of Energy
505 King Avenue
Columbus, Ohio 43201-2693

Distribution

s/f

WMRP r/f

NMSS r/f

CF

REBrowning

MJBell

PAutomare

LBHigginbotham

MRKnapp

HJMiller

JLinehan

SMCoplan

JKennedy

3106

RJohnson & r/f
PDR

Dear Mr. Neff:

As we agreed to in Enclosure 3 of the May 18, 1984 hydrology data review summary, I am providing you with a list of data we need for our pre-EA reviews of available data in geology and geophysics (see Enclosure 1). It is our understanding from discussions with you and your staff during the closing session of the hydrology data review that much of the geology data are readily available and could be sent to NRC. Receiving these data would eliminate the need for a separate geology data review at Columbus before the release of the EA's. Some review of geologic data have already been done during the hydrology data review and will continue during the rock mechanics data review in July.

It is our current understanding that the seismic data listed under item 2 for the Paradox basin (Enclosure 1) might not be in a form which can be sent to NRC. If this is the case a specific review of this data would be needed at Columbus or a subcontractors offices and should be planned as soon as possible. This data is very important for us to gain an understanding of the geologic setting of the Gibson dome area.

Please let us know if there are other geologic data listed on Enclosure 1 which can not be sent to NRC before the release of the EA's so that alternative plans for review can be discussed.

Sincerely,

"ORIGINAL SIGNED BY"

John Linehan, Section Leader
Repository Projects Branch
Division of Waste Management
Office of Nuclear Material
Safety and Safeguards

WM Record File

106

WM Project

16

Docket No.

PDR

✓

LPDR

✓

Distribution:

(Return to WM, 623-SS)

C2

B407170020 B40615

PDR WASTE

WM-16

PDR

OFC :WMRP:ejc

:WMRP

NAME :RJohnson

:JLinehan

DATE :6/15/84

:6/15/84

00581

106/RLJ/84/06/11

- 1 -

Enclosure:
Geologic data requested by NRC

cc: T. Verma, NRC
L. Casey, DOE/SRPO

OFC	:WMRP:ejc	:WMRP	:	:	:	:	:
NAME	:RJohnson	:JLinehan	:	:	:	:	:
DATE	:6/ /84	:6/ /84	:	:	:	:	:

Enclosure 1: Geologic Data Requested by NRC

GULF COAST SALT BASINS

1. Legible geophysical logs from the DOE drilled wells.*
2. Core photos for DOE drilled wells.
3. Copies of uninterpreted processed (and unprocessed if available) seismic reflection section with shooting, recording and processing parameters. Of greatest importance are those lines presented in the Ertec draft report on the high resolution survey of Vacherie Dome.
4. A map showing the location of data points with bouguer gravity anomaly values for surveys conducted over the three candidate domes. Specifically, we are most interested in the data for Richton dome which has not yet been present in the various official reports.
5. Overdome stereo air photos which cover the site as available.

PALO DURO BASIN

1. Legible geophysical logs from DOE drilled wells.* Specifically, we are most interested in S&W Mansfield, DOE G.F. No 1 Rex White, S&W Sawyer, S&W J. Friemel, S&W G. Friemel, S&W Detten, S&W Harman, DOE G.F. No 1 Grebbe, and S&W Zeeck no 1.
2. Copies of core photos from DOE drilled wells.
3. Copies of uninterpreted (and unprocessed if available) seismic sections with shooting, recording and processing parameters. Specifically, we are most interested in those line shown on figure 3-4 of the third draft of the Deaf Smith EA.
4. Air photos (preferably stereo) of the two candidate site areas as available.

PARADOX BASIN

1. A complete legible set of geophysical logs from GD-1 (same scale).*
2. Copies of uninterpreted processed seismic sections (and unprocessed if available) with shooting, recording and processing parameters.
3. Bouguer gravity maps with data points and aeromagnetic maps which form the basis for the draft report on seismic reflection, gravity and aeromagnetic studies of the geological structures in the Gibson dome area.
4. Legible copies of logs utilized in the preparation of the draft report on stratigraphy and structural configuration of the Navajo through Ouray formations in the vicinity of Davis and Lavender canyons.
5. Stereo and low sun angle photographs as available of the Davis and Lavender canyon areas, the area of Salt Creek, Bridger and Shay Grabens, and the Needles fault zone.

* Copies of logs can be reduced, but the same reduction is needed for all logs within a basin.