



Department of Energy
 Chicago Operations Office
 Salt Repository Project Office
 505 King Avenue
 Columbus, Ohio 43201-2693
 Commercial (614) 424-5916
 F.T.S. 976-5916

WM Record File
 16

WM Project 16
 Docket No. _____
 PDR
 LPDR

Distribution:
 Linehan
 R Johnson
 (Return to WM, 623-SS)
 DRM
 CER
 SJC

November 5, 1985

John J. Linehan, Section Leader
 Salt Section
 Repository Projects Branch
 Division of Waste Management, MS 623-SS
 U.S. Nuclear Regulatory Commission
 Washington, D.C. 20555

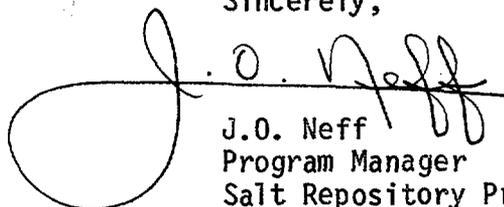
Dear Mr. Linehan:

SUBJECT: AGENDA FOR JOINT NRC/SRP WORKSHOP ON STRUCTURE AND TECTONICS OF THE PALO DURO BASIN (NOVEMBER 19-21, 1985)

Attached is the final agenda for the subject workshop in Columbus which has been developed through discussions with your staff. The objectives of the meeting are to: review interpretations of the structure of the Palo Duro Basin; examine the data upon which those interpretations were based; and discuss the uncertainties in the current structural interpretations. Representatives from DOE-SRPO, ONWI, Stone and Webster Engineering Corp. (SWEC) and the Texas Bureau of Economic Geology (TBEG) will participate in the discussions.

Your staff currently possesses all of the background topical reports and studies which will form the basis of the workshop discussions. A bibliography of reference materials will be provided to each of the salt host states as part of their notification of the meeting. If you have any questions, please contact Tom Baillieu of my staff at FTS 976-5916.

Sincerely,



J.O. Neff
 Program Manager
 Salt Repository Project Office

SRPO:TAB:max:9207B

NOV 8 1985

WM DOCKET CONTROL CENTER

8512120049 851105
 PDR WASTE
 WM-16 PDR

1218

J. Linehan
Page 2

Enclosure:
As Stated

cc: J. Sherwin, SRPO
L. Casey, SRPO
M. Ferrigan, SRPO
L. McClain, SRPO
W. Newcomb, ONWI
J. Hileman, ONWI
E. Bingler, TBEG
R. Johnson, NRC
J. Trapp, NRC
T. Verma, NRC/Col's
A. Jelacic, DOE-HQ
C. Head, DOE-HQ

GS# 025-86

Agenda
Joint NRC/SRP Workshop
November 19-21, 1985, Parke University Hotel, Columbus, Ohio

STRUCTURE AND TECTONICS OF THE PALO DURO BASIN

Objective: Participants at this workshop will obtain an understanding of the current state of knowledge of the structural features of the Palo Duro Basin. The focus will be on evaluating the present structural configuration of the basin and its tectonic history and setting. Current seismicity and active tectonic processes in the region will not be discussed.

The data base from which structural interpretations have been made will be examined. The workshop will identify areas where contractor interpretations of existing data differ, and consider methods to resolve those differences.

November 19, 1985

- | | | |
|---------------|---|---|
| 8:30 - 9:00 | INTRODUCTIONS | |
| 9:00 - 10:00 | OVERVIEW OF THE PALO DURO BASIN | SRPO, NRC |
| | - Current basis for definition and tectonic history. | J. Peck (SWEC) |
| 10:00 - 12:00 | DESCRIPTION OF DATA USED IN SRP's STRUCTURAL STUDIES | |
| | - Seismic Lines. Includes: location of DOE-run and purchased lines, the quality of the data (resolution at depths of interest), the rationale for selection of specific lines, and the proprietary status of the information. | H. Acharya (SWEC) |
| | - Types of processing of seismic information, including reasons for selecting specific processing techniques. | G.J. Long (G.J. Long)
R. Budnik (TBEG)
D. Turner (ONWI) |
| | - Other geophysical data (gravity, aeromagnetic) used to define structures. | TBD (SWEC)
W. Bennett (Bendix) |
| 12:00 - 1:00 | --- LUNCH --- | |

- 1:00 - 5:00
- Non-DOE wells. Includes: number and location of wells, lithologic and geophysical logs available, quality of the data, rationale for selection of wells to be included in the data base, and availability of the data for review by third parties. P. Murphy (SWEC)
 - Summary of the borehole database. P. Murphy (SWEC)
 - DOE Wells. Includes: lithologic logs and geophysical logs available, stratigraphic correlations made, and application of well information to other studies (e.g. use of sonic logs to establish parameters for seismic processing). J. Peck (SWEC)
 - Remote-sensed Imagery. Includes: types of imagery analyzed, application of remote-sensing to structural interpretation (e.g. lineament analysis), and "ground checking" of interpreted features. T. Gustavson (TBEG)
 - Geologic Analysis. Includes: field mapping, joint/fracture analysis (outcrop and borehole), relation of mapped features to regional structures, (including recent interpretations of Pleistocene units). R. Gillespie (SWEC)
J. Peck (SWEC)
E. Collins (TBEG)
T. Gustavson (TBEG)
 - Quality Assurance. Procedures for data collection/interpretation of seismic, borehole, and other data applicable to structural analyses. E. Washer (SWEC)
D. Davidson (TBEG)

November 20, 1985

8:30 - 11:00 INTERPRETATION AND SYNTHESIS OF STRUCTURAL DATA

- Stratigraphic Correlations. Includes: development of structure contour maps of major units (include younger units such as the Dockum), development of isopach maps, and the types of data utilized in these studies. P. Murphy (SWEC)
T. Gustavson (TBEG)
S. Hovorka (TBEG)

- Detailed Correlations. This will be a brief synopsis of material presented at the August 5-9 workshop in question. T. Gustavson

- 11:00 - 12:00 PARTS OF THE AVAILABLE DATA BASE NOT UTILIZED AND RATIONALE FOR EXCLUSION
 - Summary of all available borehole and proprietary geophysical data and selection criteria for access by the program. E. Washer (SWEC)
 - Summary of available literature sources for structural interpretations of the Palo Duro Basin. E. Washer (SWEC)
E. Bingler (TBEG)
R. Budnik (TBEG)

- 12:00 - 1:00 --- LUNCH ---

- 1:00 - 5:00 INTERPRETATIONS OF THE STRUCTURAL GEOLOGY DATA BASE
 - Computer mapping abilities from geologic data base. T. Bruno (SWEC)
 - Methods/Procedures for interpreting seismic data. G.J. Long (G.J. Long)
R. Budnik (TBEG)
 - Extent to which available data (borehole stratigraphic information, surface mapping, seismic information published studies) has been integrated into a structural interpretation. R. Budnik (TBEG)
T. Gustavson (TBEG)
P. Murphy (SWEC)
J. Peck (SWEC)
T. Regan (SWEC)
 - Effects of differing data interpretations or different data bases on structure/tectonic evaluations of the Palo Duro Basin, including methods, data base and results. TBD (TBEG)
D. Pierce (SWEC)

November 21, 1985

- 8:30 - end SUMMARY AND CONCLUSIONS
 - General types of additional studies necessary to resolve differing structural interpretations/hypotheses. All
 - Meeting summary and agreements. SRPO, NRC

EXPECTED ATTENDEES

<u>SRPO</u>	<u>ONWI</u>	<u>SWEC</u>	<u>TBEG</u>	<u>NRC</u>
J. Sherwin	W. Newcomb	J. Peck	E. Bingler	J. Trapp
T. Baillieul	J. Hileman	E. Washer	J. Raney	R. Johnson
M. Ferrigan	A. Funk	D. Pierce	T. Gustavson	P. Justus
A. Avel	D. Ballman	P. Murphy	R. Budnik	M. Blackford
	O. Swanson	T. Regan	E. Collins	A. Ibrahim
	C. Kuntz	H. Acharya	S. Hovorka	R. Lee
	D. Turner	T. Bruno	C. Kreidler	F. Ross
	S. Adams	G.J. Long *		E. Zurflueh
	S. Nelson			J. Pearing
	K. Johnson			E. Levine **
				V. Murphy **
				D. Carpenter ***
				H. Mckaque ***
				R. Berry ***
				C. Purcell ***

BENDIX

W. Bennett

- * (G.J. Long & Associates)
- ** (Weston Geophysical)
- *** (LLL)