

State of New Mexico  
**ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT**  
Santa Fe, New Mexico 87505



January 4, 1995

Devon Energy Corporation  
20 North Broadway, Suite 1500  
Oklahoma City, Oklahoma 73102-8260

Attn: Jerald McKedy

Re: Amendment to Division Order WFX-665

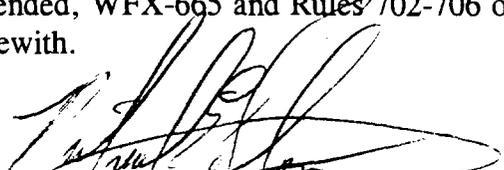
Dear Mr. McKedy:

Reference is made to your recent request to amend the above referenced order. Division Order No. WFX-665 contains the requirement, "*Prior to injection operations into the H.E. West "B" Well No.44, the operator shall run a cement bond log, or otherwise demonstrate that adequate cement exists behind the casing to a top of approximately 2728 feet...*" In light of documentation furnished with your request, the subject well appears to be satisfactorily cemented and no further action is required prior to commencing injection operations into this well.

Additionally, you requested that approved injection pressures be more in line with data previously submitted for approval of Division Order R-2268-C, of which, WFX-665 is an expansion. After further review of such data, it appears that higher injection pressures may be approved at this time. You are therefore authorized to increase the maximum surface injection pressure to 1816 psig on each of the 10 wells permitted by WFX-665.

The Director of the Division may authorize an increase in injection pressure upon proper showing by the operator of said wells that such higher pressure will not result in migration of the injected fluid from the Grayburg or San Andres formations. Such proper showing shall consist of a valid step-rate test run in accordance with and acceptable to this office.

The subject wells shall be governed by all provisions of Division Order Nos. R-2268, as amended, WFX-665 and Rules 702-706 of the Division Rules and Regulations not inconsistent herewith.

  
Michael E. Stogner, Acting Director

MES/BES

cc: Oil Conservation Division - Artesia; File WFX-665

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**VILLAGRA BUILDING - 408 Gallisteo**  
Forestry and Resources Conservation Division  
P.O. Box 1948 87504-1948  
827-5830  
Park and Recreation Division  
P.O. Box 1147 87504-1147  
827-7465

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**2040 South Pacheco**  
Office of the Secretary  
827-5950  
Administrative Services  
827-5925  
Energy Conservation & Management  
827-5900  
Mining and Minerals  
827-5970  
Oil Conservation  
827-5900

DEVON ENERGY CORPORATION  
20 NORTH BROADWAY, SUITE 1500  
OKLAHOMA CITY, OK 73102-8260  
OFFICE (405) 235-3611

FAX TRANSMISSION  
Xerox 7033 (405) 552-4550  
Monroe MX-3060 (405) 552-4552

DATE: 1-4-95

TO: Ben Stone

COMPANY: N.M. O.C.D.

FAX PHONE: 505-827-8177

OFFICE PHONE: 505-827-8186

FROM: Jerald McKedy  
**DEVON ENERGY CORPORATION**

NUMBER OF PAGES FOLLOWING: 4

TRANSMISSION COMPLETED: \_\_\_\_\_

Look At  
R-2268-C for  
possible psi  
increase based on  
area well step rates.

JAN-04-95 WED 10:31

4052364258

P. 02

COUNTY		EDDY		LOCATION		720' FSL & 1980' FWL		Other Service	
FIELD		GRAYBURG JACKSON		API SERIAL NO.		N/A		NONF	
LOCATION		270' E & 150' W		SECT.		9		NEW MEXICO	
WELL		H.E. WEST "B" #44		TWP.		17-S			
COMPANY		SOCORRO PETROLEUM		RANGI		31-E			
COMPANY		SOCORRO PETROLEUM		GROUND LEVEL		Elev. 3935.01'		Elev.: K.B.394	
WELL		H.E. WEST "B" #44		Log Measured From		KELLY BUSHING 6.0F		D.F. 394	
FIELD		GRAYBURG JACKSON		Drilling Measured From		KELLY BUSHING		G.L. 393	
COUNTY		EDDY		Date		06 MAR-1993			
STATE		NEW MEXICO		Run No.		WORKOVER			
WELL		H.E. WEST "B" #44		Depth Driller		4380.01'			
FIELD		GRAYBURG JACKSON		Depth Logger (Schl.)		4382.01'			
COUNTY		EDDY		Btm. Log Interval		4356.01'			
STATE		NEW MEXICO		Top Log Interval					
WELL		H.E. WEST "B" #44		Type Fluid in Hole		FRESH			
FIELD		GRAYBURG JACKSON		Salinity NaCl					
COUNTY		EDDY		Density		8.30 LB/G			
STATE		NEW MEXICO		Fluid Level		6.0F			
WELL		H.E. WEST "B" #44		Max. Rec. Temp.					
FIELD		GRAYBURG JACKSON		Deviation					
COUNTY		EDDY		Logger on Bottom					
STATE		NEW MEXICO		Equip. Location		8382 HOBBS			
WELL		H.E. WEST "B" #44		Recorded By		SCHULTE			
FIELD		GRAYBURG JACKSON		Witnessed By		ERIC SETZLER			
COUNTY		EDDY		BOREHOLE RECORD					
STATE		NEW MEXICO		Bit Size		7.75"			
WELL		H.E. WEST "B" #44		Depth					
FIELD		GRAYBURG JACKSON		Casing & Tubing Record					
COUNTY		EDDY		Size		5.12"		8.59"	
STATE		NEW MEXICO		Weight		15,5000 LB+			
WELL		H.E. WEST "B" #44		Casing Top-Driller		6.0F		6.0F	
FIELD		GRAYBURG JACKSON		Casing Top-Logger		6.0F		6.0F	
COUNTY		EDDY		Casing Shoe-Driller		4350.01		466.0F	
STATE		NEW MEXICO		Casing-Logger					

MIN COMP STREN

CP 32.6

FILE 3

05-MAY-1993 14:11

MAIN PASS (0 PSI)

INPUT FILE(S)  
5

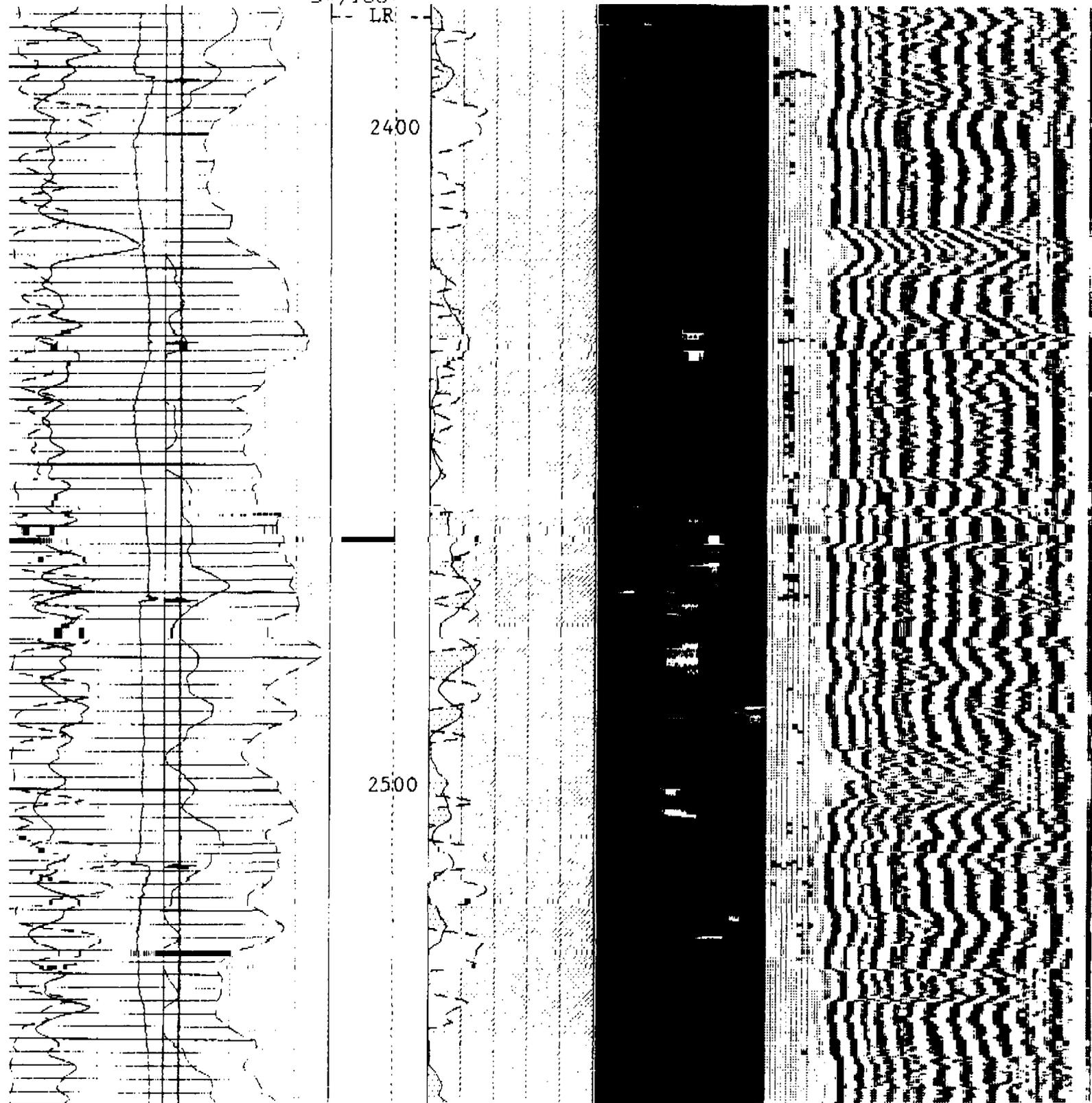
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06-MAR-1993

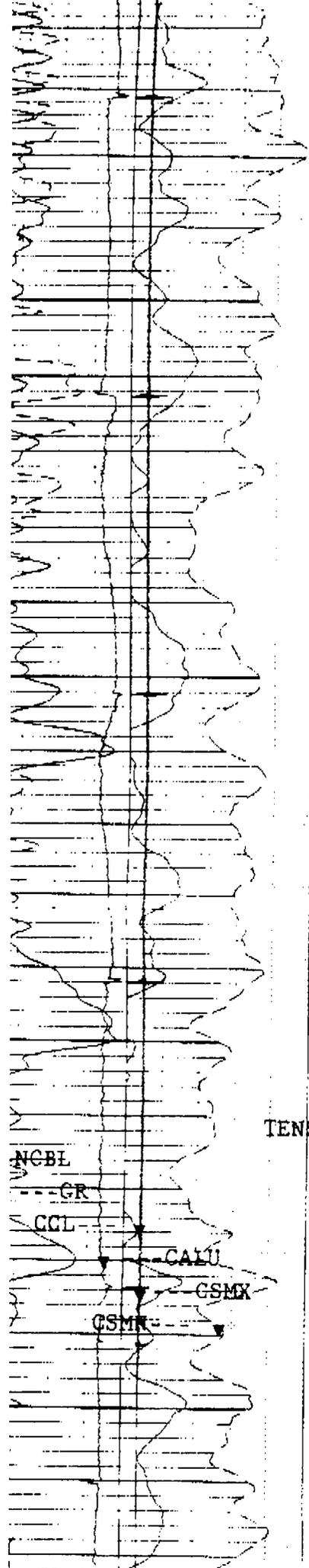
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LR

2400

2500

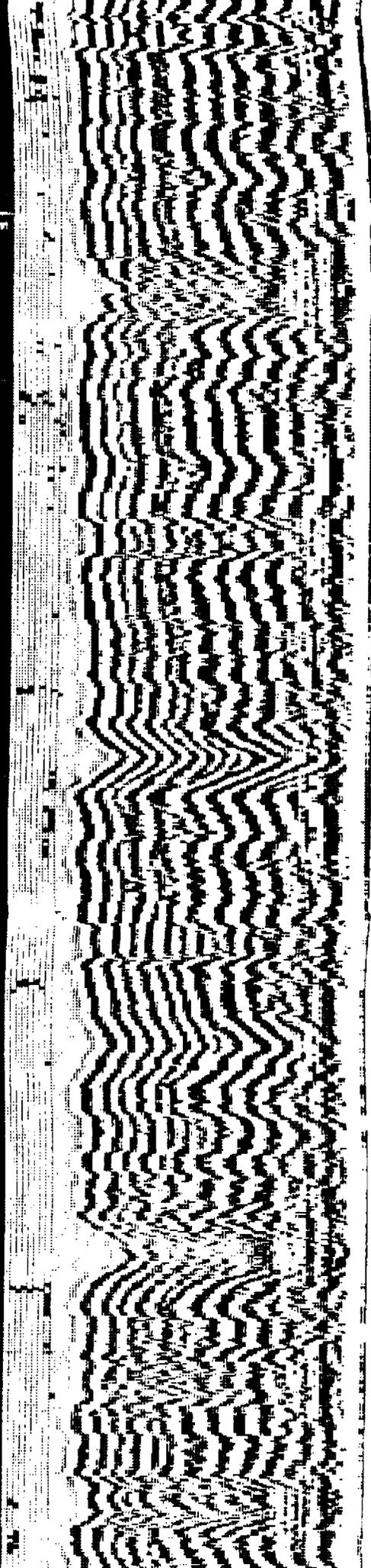
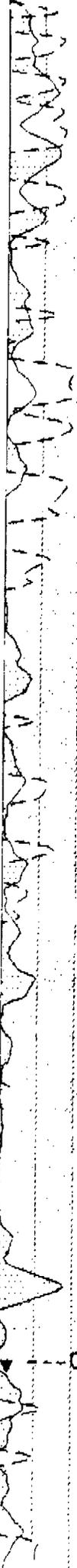




2500

2600

TENS --->

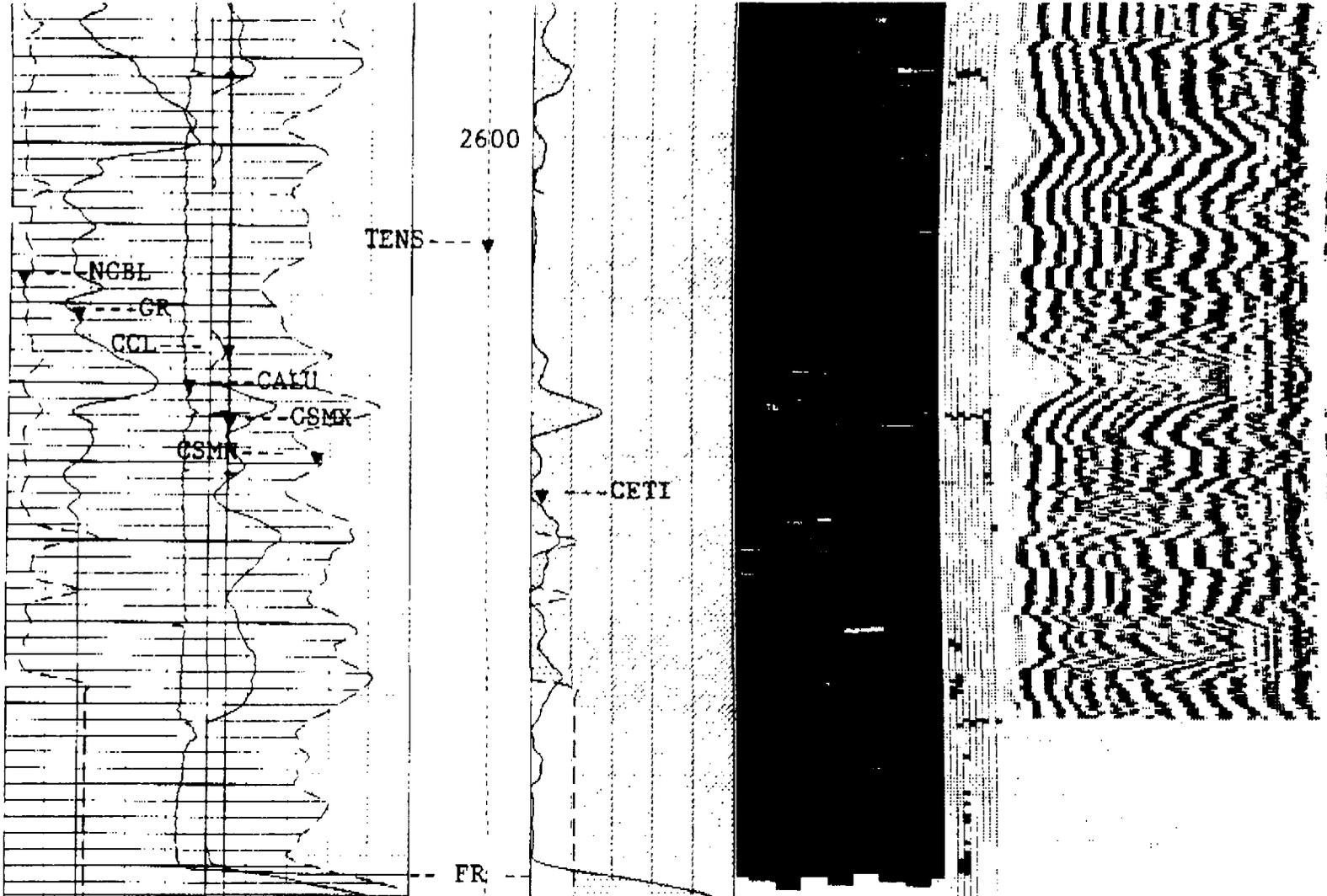


SENT BY:

1- 4-95 :10:41AM :

DEVON ENERGY-

5058275741:# 5/ 5



5"/100'

CP 32.6

FILE 3

05-MAY-1993 14:05

INPUT FILE(S)  
5

CREATION DATE  
06-MAR-1993

MAIN PASS (0 PSI)

	%FREE PIPE	
	GAS CUT CMT	
	%GOOD CMT	
MIN COMP. STREN		

		TENS(LBF)	
		5000.0	0.0
		CSMX	
		5000.0	0.0
NCBL(VV)		CSMN	
0.0	10000	5000.0	0.0
		GR(GAP)	
0.0		100.00	
		CSTI	

BEFORE THE OIL CONSERVATION COMMISSION  
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING  
CALLED BY THE OIL CONSERVATION  
COMMISSION OF NEW MEXICO FOR  
THE PURPOSE OF CONSIDERING:

CASE No. 2576  
Order No. R-2268

APPLICATION OF SINCLAIR OIL & GAS  
COMPANY FOR APPROVAL OF A WATER-  
FLOOD PROJECT, EDDY COUNTY, NEW  
MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on June 7, 1962, at Santa Fe, New Mexico, before Daniel S. Nutter, Examiner duly appointed by the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission," in accordance with Rule 1214 of the Commission Rules and Regulations.

NOW, on this 21st day of June, 1962, the Commission, a quorum being present, having considered the application, the evidence adduced, and the recommendations of the Examiner, Daniel S. Nutter, and being fully advised in the premises,

FINDS:

(1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.

(2) That the applicant, Sinclair Oil & Gas Company, seeks approval of a waterflood project in the Grayburg-Jackson Pool with the injection of water to be through seven wells located in Sections 3 and 4, Township 17 South, Range 31 East, NMPM, Eddy County, New Mexico.

(3) That the wells in the proposed project area are in an advanced stage of depletion and should be classified as "stripper" wells.

(4) That approval of the subject application will neither cause waste nor impair correlative rights; provided, however, that unless agreed to by all parties, the transfer of allowables across lease lines where royalty ownership is diverse should not be authorized.

IT IS THEREFORE ORDERED:

(1) That the applicant, Sinclair Oil & Gas Company, is hereby authorized to institute a waterflood project in the Grayburg-Jackson Pool with the injection of water through the following-described wells in Township 17 South, Range 31 East, NMPM, Eddy County, New Mexico:

West "A" Well No. 8, Unit E, Section 3;  
West "A" Well No. 4, Unit G, Section 4;  
West "A" Well No. 7, Unit A, Section 4;  
West "A" Well No. 9, Unit I, Section 4;  
West "B" Well No. 3, Unit C, Section 4;  
West "B" Well No. 6, Unit E, Section 4; and  
West "B" Well No. 11, Unit K, Section 4.

(2) That the waterflood project shall be governed by Rule 701, including the allowable provisions thereof.

PROVIDED HOWEVER, That unless otherwise agreed to by all parties and evidence thereof furnished the Commission, the transfer of allowables within the project area of this waterflood shall be authorized only insofar as the transfer is made between wells having common royalty ownership.

(3) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year herein-above designated.

STATE OF NEW MEXICO  
OIL CONSERVATION COMMISSION

EDWIN L. MECHEM, Chairman

E. S. WALKER, Member

A. L. PORTER, Jr., Member & Secretary

S E A L

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BEFORE THE OIL CONSERVATION COMMISSION  
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING  
CALLED BY THE OIL CONSERVATION  
COMMISSION OF NEW MEXICO FOR  
THE PURPOSE OF CONSIDERING:

CASE No. 2909  
Order No. R-2268-A

APPLICATION OF SINCLAIR OIL & GAS  
COMPANY FOR THE EXTENSION OF A  
WATERFLOOD PROJECT, EDDY COUNTY,  
NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on September 25, 1963, at Santa Fe, New Mexico, before Daniel S. Nutter, Examiner duly appointed by the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission," in accordance with Rule 1214 of the Commission Rules and Regulations.

NOW, on this 17th day of October, 1963, the Commission, a quorum being present, having considered the application, the evidence adduced, and the recommendations of the Examiner, Daniel S. Nutter, and being fully advised in the premises,

FINDS:

(1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.

(2) That by Order No. R-2268 dated June 21, 1962, the Commission authorized Sinclair Oil & Gas Company to institute a waterflood project in the Grayburg-Jackson Pool with the injection of water through seven wells in Township 17 South, Range 31 East, NMPM, Eddy County, New Mexico.

(3) That the applicant, Sinclair Oil & Gas Company, seeks authority to expand its Keel-West Waterflood Project in the Grayburg-Jackson Pool in four separate stages.

(4) That an administrative procedure should be established whereby wells may be converted to injection by stages rather than after experiencing substantial response to water injection as required by Rule 701-E (5).

(5) That approval of the subject application will not alter the manner in which allowable will be assigned to the waterflood project area under the provisions of Rule 701.

-4-

CASE No. 2909  
Order No. R-2268-A

DONE at Santa Fe, New Mexico, on the day and year herein-  
above designated.

STATE OF NEW MEXICO  
OIL CONSERVATION COMMISSION

JACK M. CAMPBELL, Chairman

E. S. WALKER, Member

A. L. PORTER, Jr., Member & Secretary

S E A L

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BEFORE THE OIL CONSERVATION COMMISSION  
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING  
CALLED BY THE OIL CONSERVATION  
COMMISSION OF NEW MEXICO FOR  
THE PURPOSE OF CONSIDERING:

CASE No. 3299  
Order No. R-2268-B

APPLICATION OF SINCLAIR OIL & GAS  
COMPANY FOR A WATERFLOOD EXPANSION,  
EDDY COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on August 25, 1965, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 13th day of September, 1965, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

- (1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.
- (2) That by Order No. R-2268-A, the Commission authorized the applicant, Sinclair Oil & Gas Company, to expand its Keel-West Waterflood Project in the Grayburg-Jackson Pool in Township 17 South, Range 31 East, NMPM, Eddy County, New Mexico, in four stages, specifying a period of time to commence each stage of the project.
- (3) That Order No. R-2268-A provided that Stage IV of the project was to be commenced subsequent to completion of Stage III but not prior to January 1, 1965.
- (4) That the applicant seeks amendment of Order No. R-2268-A to authorize the commencement of Stage IV of the project prior to the completion of Stage III.
- (5) That approval of the subject application should result in a more efficient waterflood project, thereby preventing waste.

-2-

CASE No. 3299

Order No. R-2268-B

IT IS THEREFORE ORDERED:

(1) That Order No. R-2268-A is hereby amended to authorize the applicant, Sinclair Oil & Gas Company, to commence Stage IV of its Keel-West Waterflood Project in the Grayburg-Jackson Pool in Township 17 South, Range 31 East, NMPM, Eddy County, New Mexico, prior to the completion of Stage III of the project.

(2) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO  
OIL CONSERVATION COMMISSION

JACK M. CAMPBELL, Chairman

GUYTON B. HAYS, Member

A. L. PORTER, JR., Member & Secretary

S E A L

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