

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

VILLAGRA BUILDING - 408 Gallateo
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

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

SENT BY:

1- 4-95 :10:37AM :

DEVON ENERGY-

5058275741:# 1/ 5

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		COMPANY		SOCORRO PETROLEUM	
FIELD		GRAYBURG JACKSON		WELL		H.E.WEST "B" #44	
LOCATION		27° 14' N 106° 14' W		COUNTY		EDDY	
WELL		H.E.WEST "B" #44		STATE		NEW MEXICO	
COMPANY		SOCORRO PETROLEUM		Other Service		NON	
Permanent Datum		GROUND LEVEL		Elev.		3935.01	
Log Measured From		KELLY BUSHING		Elev.		D.F. 394	
Drilling Measured From		KELLY BUSHING		Elev.		G.L. 393	
Date		06 MAR 1993		Run No.		WORKOVER	
Depth Driller		4360.01		Depth Logger (Schl.)		4362.01	
Btm. Log Interval		4356.01		Top Log Interval		---	
Type Fluid in Hole		FRESH		Salinity NaCl		---	
Density		8.30 LB/G		Fluid Level		6.01	
Max. Rec. Temp.		---		Deviation		---	
Logger on Bottom		---		Equip.		8382	
Recorded By		SCHULTE		Location		HOJBS	
Witnessed By		ERIC SETZLER		BOREHOLE RECORD		---	
Bit Size		7 7/8"		Depth		---	
Size		5 1/2"		Weight		15,500 LB+	
Casing Top-Driller		6.01		Casing Top-Logger		6.01	
Casing Shoe-Driller		4350.01		Casing Shoe-Logger		4350.01	

MIN COMP STREN

CP 32.6

FILE 3

05-MAY-1993 14:11

MAIN PASS (0 PSI)

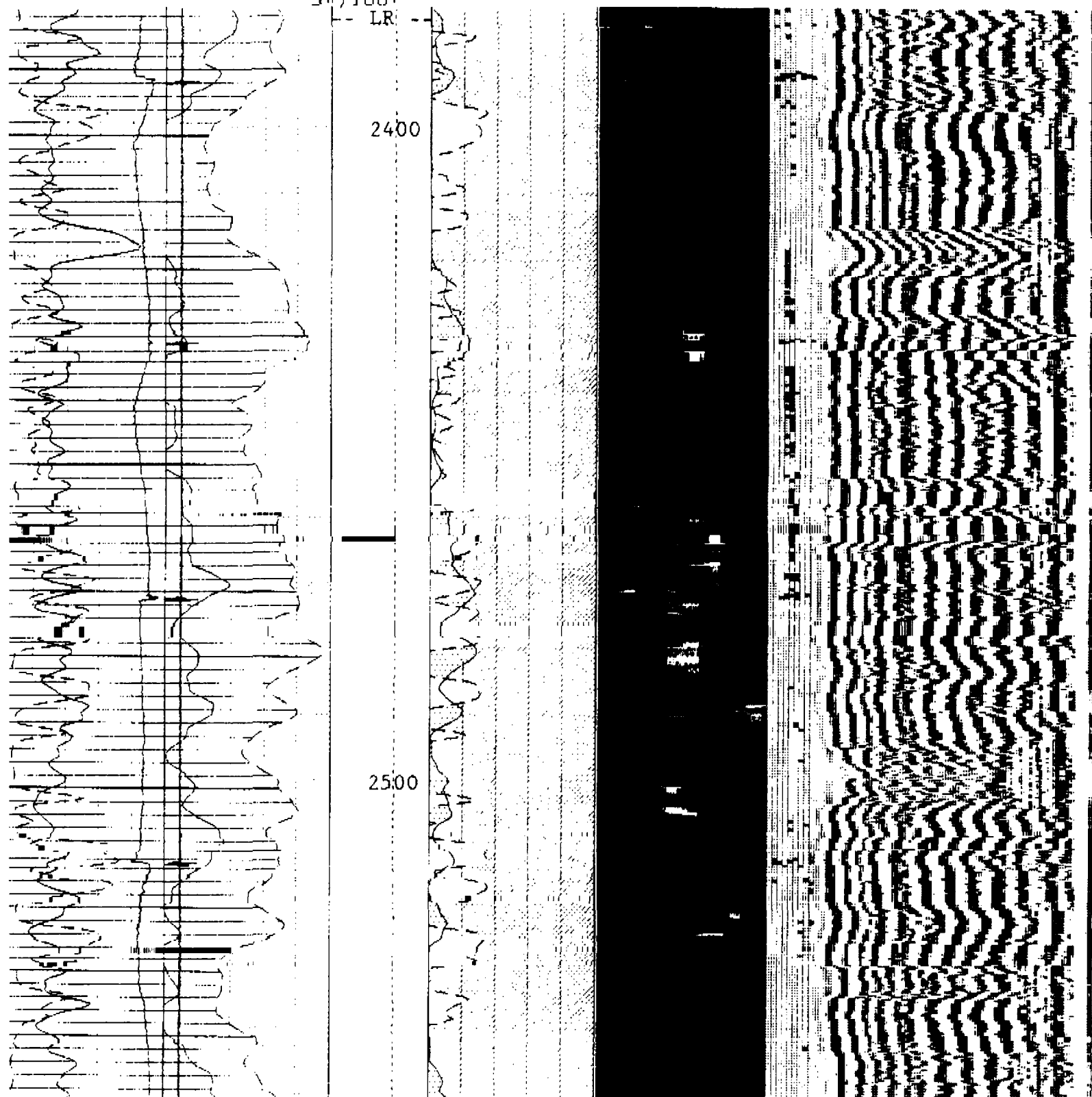
INPUT FILE(S)
5CREATION DATE
06-MAR-1993

5"/100'

LR

2400

2500

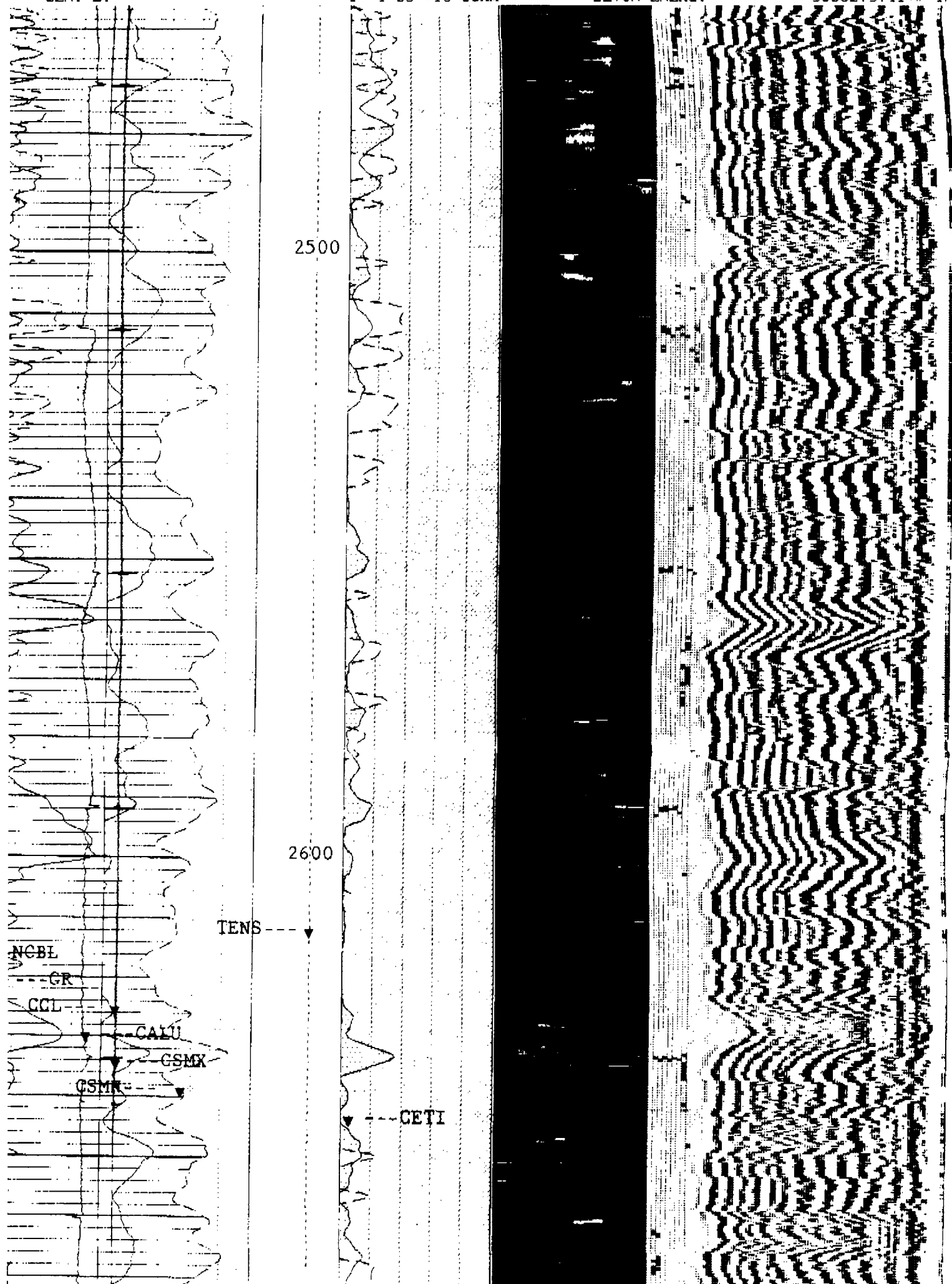


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1- 4-95 :10:39AM :

DEVON ENERGY-

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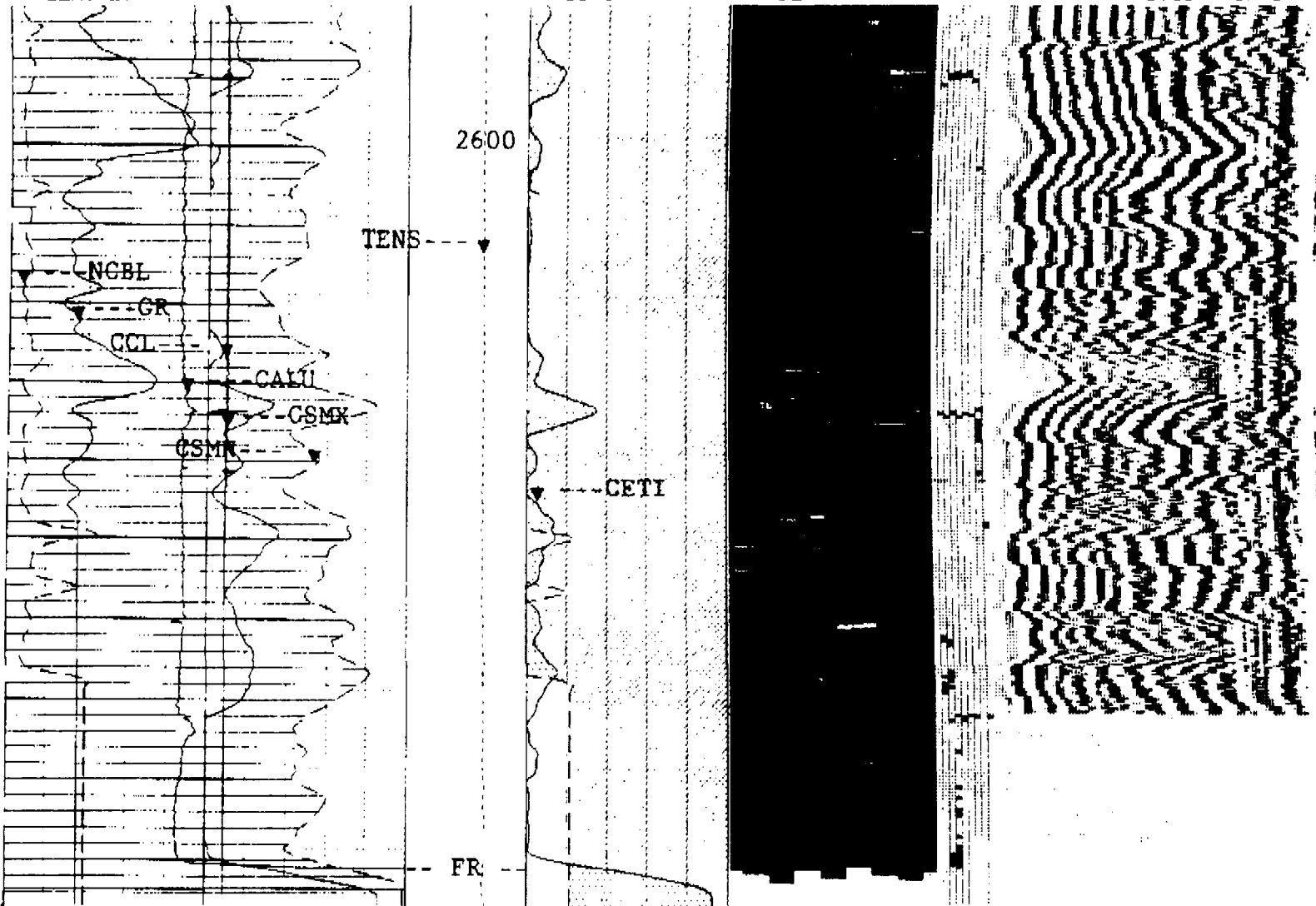


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1- 4-95 :10:41AM :

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(MV)		CSMN	
0.0	10 000	5000.0	0.0
GR(GAP)			
0.0		100.00	
CCI			
		CST	

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.

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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

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