CASE 4706: Application of KENNEDY OIL COMPANY FOR A WATERFLOOD PROJECT, EDDY COUNTY, N. MEX.

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# Case Number 4706

Application
Trascripts

Small Exhibits

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BEFORE THE NEW MEXICO OIL CONSERVATION COMMISSION CONFERENCE ROOM, STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO May 5, 1972

EXAMINER HEARING

IN THE MATTER OF:

Application of Kennedy Oil Company for a waterflood project, Eddy County, New Mexico.

CASE NO. 4706

BEFORE: Elvis A. Utz

Examiner

TRANSCRIPT OF HEARING

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MR. UTZ: Case 4706.

MR. HATCH: Application of Kennedy Oil Company for a waterflood project, Eddy County, New Mexico.

MR. KENNEDY: I am Robert V. Kennedy, owner of Kennedy Oil and I have testified before.

MR. UTZ: Will you stand up and be sworn?

# ROBERT V. KENNEDY,

appeared as a witness on his own behalf, and after being duly sworn, testified as follows:

MR. UTZ: You are representing yourself? THE WITNESS: I am representing Kennedy Oil Company.

MR. UTZ: You may proceed.

THE WITNESS: I will refer you, at this time to Exhibit Number 1, it is a plat of the area in question and it shows all the surrounding wells within a radius of two miles. This is the same plat previously submitted by Atlantic Richfield Company.

The producing formations and zones are so identified on this. As to legend at the bottom of this particular map, the Kennedy Oil Company acreage is outlined in red, being the west half of the SW/4 of 19, 17, 31.

I will now refer you to Exhibit Number 2, Exhibit Number 2 is a gammaray neutron log of our State "B" Well Number 1, located in the NW/4 of the SW/4 of Section 19, 17, 31.

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With reference to this log, you will note that we have noted perforations in the well, and the casing setting point which is 3,053.

We show on the log an open hole section from 3,053 to approximately 3,120.

Referring to Exhibit Number 3, it is a drawing of the proposed injection well and it again shows the perforation and cement tops which are estimated to be in the open hole section I previously referred to.

Our tube string will have Packer Tests at approximately 3,006 feet. Again, making reference to the reduced hole I previously pointed out, the section of the open hole is producing from the San Andres.

Referring to Exhibit 4, Exhibit 4 shows the Grayburg-Jackson Wells that we have on this lease. We have completed to date, a total depth casing to the perforation so listed.

With reference to Exhibit 5, that snows the accumulation of these wells as of March 1, 1972. shows the total accumulative production. The water will be injected at the proposed minimum of 100 barrels a day and a maximum of 500 barrels a day with a pressure of 1,500 to 1,600 pounds.

We propose a pressure test or casing at 2,500 pounds per square inch. If we have failure or anything we

DEPOSITIONS, HEARINGS, STATEMENTS, EXPERT TESTIMONY, DAILY COPY, CONVENTION! 1092.PHONE 243-5681.ALBUQUERQUE, NEW MEXICO 87103 DG. EAST ALBUQUERQUE, NEW MEXICO 87108 208 SIMMS BLDG. P.O. BOX FIRST NATIONAL BANK BLG

will repair or reset the Packer, if possible.

We do have a set of perforations above the Packer setting point and the perforation is 2,804 to 2,816. We are going to initially just flood the portion from 3,006 to 3,115.

Our water source will be from the Arco waterflood supply system and produced water will be returned to the system, treated, and reinjected.

The life of the project is estimated at ten years depending on the economic conditions.

I estimate the recovery to be approximately 50,000 barrels of water.

In conclusion, I will state that this is a lease line cooperative effort of Arco and ourselves and by working together, we hope to recover additional oil that otherwise would not be recovered.

Correlative rights will be protected and this is a State lease we are working on.

I would like to introduce Exhibits 1 through 5, all of which were prepared by myself except for the map which I borrowed from Atlantic Richfield.

MR. UTZ: Without objection, Exhibits 1 through 5 will be entered into the record.

(Whereupon Applicant's Exhibits 1 through 5 were admitted in evidence.)

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MR. UTZ: Mr. Kennedy, referring to your Exhibit
  Number 3, and the perforation of 2,834 to 2,818, what
  zone is that?
             MR. KENNEDY: The upper member of the Grayburg.
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             MR. UTZ: How about the perforation from 3,814 to
             MR. KENNEDY: There again, it will be the upper
   3,816?
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              Now, sometimes this is classified as Loco Hills.
    Grayburg.
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              MR. UTZ: And the same is true for the perforation
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     at 3,454?
              MR. KENNEDY: Yes, that is Grayburg.
               MR. PORTER: What is below the open hole section?
               MR. KENNEDY: Grayburg.
               MR. PORTER: More Grayburg?
               MR. KENNEDY: I mean San Andres, the open hole
      section is San Andres.
                MR. UTZ: What material do you have below the
                 MR. KENNEDY: I will fill that with gravel as
       lead plug?
       noted on Exhibit 3.
                 MR. UTZ: Will that effectively seal it off?
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                 MR. KENNEDY: Yes, sir.
                  MR. UTZ: That is the purpose in separating the
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two Grayburg sections with the Packer?

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MR. KENNEDY: Atlantic Richfield, in a cooperative effort, wanted to confine the flowing to these lower sections. They do not have an upper many of their wells, if any. MR. UTZ: They are not injecting in the upper zone?

MR. KENNEDY: No, they are going to confine theirs to the same intervals outlined on my gammaray neutron.

MR. UTZ: Any other questions of the witness?

(No response.)

MR. UTZ: You may be excused.

(Witness excused.)

MR. UTZ: Any statements in the Case?

(No response.)

MR. UTZ: The Case will be taken under advisement.

SPECIALIZING IN: DEPOSITIONS, MEARINGS, STATERENTS, EXPERT TESTIMONY, DALLY COP7, CONVENTIONS

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STATE OF NEW MEXICO COUNTY OF BERNALILLO )

I, RICHARD E. McCORMICK, a Certified Shorthand Reporter, in and for the County of Bernalillo, State of New Mexico, do hereby certify that the foregoing and attached Transcript of Hearing before the New Mexico Oil Conservation Commission was reported by me; and that the same is a true and correct record of the said proceedings to the best of my knowledge, skill and ability.

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CERTIFIED SHORTHAND REPORLER

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Res Mexico 011 Connervation Commission

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| witness:                                         |                  |
| ROBERT V. KENNEDY                                | 3                |
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| EXHIBITS                                         |                  |
|                                                  | ORDERED ADMITTED |
| APPLICANT'S: (Kennedy)                           | 1 3              |
| Exhibit Number 1                                 | 2 3              |
| Exhibit Number 2                                 | 3 4              |
| Exhibit Number 3                                 | 4                |
| Exhibit Number 4                                 | 5 4              |
| 2 Exhibit Number 5                               |                  |
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# OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO P. O. BOX 2088 - SANTA FE 87501 BRUCE KING CHAIRMAN LAND COMMISSIONER ALEX J. ARMIJO MEMBER

**GOVERNOR** 

STATE GEOLOGIST
A. L. PORTER, JR.
SECRETARY - DIRECTOR

June 2, 1972

Mr. Robert B. Kennedy Kennedy Cil Company Post Office Box 151 Artesia, New Mexico 88210

Dear Sir:

Reference is made to Commission Order No. R-4302, recently entered in Case No. 4706, approving the Kennedy State B Grayburg Jackson Waterflood Project.

Injection into the one authorized water injection well shall be through tubing under a packer into perforations and open-hole in the overall interval from 3008 feet to 3115 feet. It is our understanding that you may later also flood through the casing-tubing annulus into perforations 2804-2816 feet. It will be necessary, when you start this annular injection, to continuously treat the water for corrosion prevention and to conduct corrosion coupon tests and report the results thereof quarterly to the Commission.

As to allowable, our calculations indicate that when all of the authorized injection wells have been placed on active injection, the maximum allowable which this project will be eligible to receive under the provisions of Rule 701-E-3 is 112 barrels per day when the Southeast New Mexico normal unit allowable is 42 barrels per day or less.

Please report any error in this calculated maximum allowable immediately, both to the Santa Fe office of the Commission and the appropriate district proration office.

In order that the allowable assigned to the project may be kept current, and in order that the operator may fully benefit from the allowable provisions of Rule 701, it behooves him to promptly notify both

-2-Mr. Robert B. Kennedy Kennedy Oil Company Post Office Box 151 Artesia, New Mexico 88210

of the aforementioned Commission offices by letter of any change in the status of wells in the project area, i.e., when active injection commences, when additional injection or producing wells are drilled, when additional wells are acquired through purchase or unitization, when wells have received a response to water injection, etc.

Your cooperation in keeping the Commission so informed as to the status of the project and the wells therein will be appreciated.

Very truly yours,

(A. Parter,)

A. L. PORTER, Jr. Secretary-Director

ALP/DSN/ir

CC: OCC-Hobbs and Artesia, New Mexico Mr. D. E. Gray, State Engineer Office, Santa Fe, N. Mex.



# **QIL CONSERVATION COMMISSION**

STATE OF NEW MEXICO P. O. BOX 2088 - SANTA FE 87501

MEMBER STATE GEOLOGIS

STATE GEOLOGIST
A. L. PORTER, JR.
SECRETARY – DIRECTOR

GOVERNOR BRUCE KING

CHAIRMAN

LAND COMMISSIONER
ALEX J. ARMIJO

May 17, 1972

Mr. Robert B. Kennedy Kennedy Oil Company Post Office Box 151 Artesia, New Mexico 88210 Re: Case No. 4706
Order No. R-4302
Applicant:

Kennedy Oil Company

Dear Sir:

Enclosed herewith is a copy of the above-referenced Commission order recently entered in the subject case. Letter pertaining to conditions of approval and maximum allowable to follow.

Very truly yours,

A. L. PORTER, Jr.
Secretary-Director

| ALP/ir                                               |  |
|------------------------------------------------------|--|
| Copy of order also sent to:                          |  |
| Hobbs OCC X Artesia OCC X Aztec OCC State Engineer x |  |
| Other                                                |  |

# 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. 4706 Order No. R-4302

APPLICATION OF KENNEDY OIL COMPANY FOR A WATERFLOOD PROJECT, EDDY COUNTY, NEW MEXICO.

### ORDER OF THE COMMISSION

#### BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on May 5, 1972, at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 16th day of May, 1972, 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 the applicant, Kennedy Oil Company, seeks authority to institute a waterflood project in the Grayburg-Jackson Pool by the injection of water into the Grayburg formation through its State "B" Well No. 1, located in the NW/4 SW/4 of Section 19, Township 17 South, Range 31 East, NMPM, Eddy County, New Mexico.
- (3) That the wells in the project area are in an advanced state of depletion and should properly be classified as "stripper" wells.
- (4) That the proposed waterflood project should result in the recovery of otherwise unrecoverable oil, thereby preventing waste.
- (5) That the subject application should be approved and the project should be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations.

# IT IS THEREFORE ORDERED:

(1) That the applicant, Kennedy Oil Company, is hereby authorized to institute a waterflood project in the Grayburg-

CASE NO. 4706 Order No. R-4302

Jackson Pool by the injection of water into the Grayburg formation through its State "B" Well No. 1, located in the NW/4 SW/4 of Section 19, Township 17 South, Range 31 East, NMPM, Eddy County, New Mexico.

- (2) That the subject waterflood project is hereby designated the Kennedy State B Grayburg Jackson Waterflood Project and shall be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations.
- (3) That monthly progress reports of the waterflood project herein authorized shall be submitted to the Commission in accordance with Rules 704 and 1120 of the Commission Rules and Regulations.
- (4) 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
CIL CONSERVATION COMMISSION

BRUCE KING, Chairman

ALEX J. ARMXJO, Member

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

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as a widefled project.

-2-Docket No. 10-72 Examiner Hearing - Friday, May 5, 1972

- CASE 4700: Application of Penasco Corporation for a waterflood project, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project in the Penasco Shugart Queen Sand Unit Area, Shugart Pool, by the injection of water into the Queen formation through four wells located in Sections 8, 9, 16, and 17, Township 18 South, Range 31 East, Eddy County, New Mexico. Applicant further seeks a procedure whereby additional injection wells within the unit area may be approved administratively.
- CASE 4701: Application of Wynn Oil Company for an unorthodox location and a dual completion, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks approval of the dual completion of its Largo Federal Well No. 2 to produce gas from the Blanco-Mesaverde and Busin-Dakota Pools at an unorthodox location for the Blanco-Mesavede Pool 1500 feet from the South line and 1100 feet from the East line of Section 13, Township 27 North, Range 8 West, San Juan County, New Mexico.
- CASE 4702: Application of Penroc Oil Corporation for a special gas-oil ratio limitation, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an amendment of the special rules and regulations for the Hobbs-Drinkard Pool, Lea County, New Mexico, to provide for a limiting gas-oil ratio of 10,000 cubic feet of gas per barrel of oil for said pool.
- CASE 4703: Application of Continental Oil Company for special pool rules, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks the promulgation of special pool rules for the West Lindrith Gallup-Dakota Oil Pool, Rio Arriba County, New Mexico, including provisions defining a gas well in the pool as one producing with a gas-liquid ratio of 30,000 cubic feet of gas per barrel of oil or one which produces oil with a gravity of 60° API or greater, a gas-oil ratio limitation for oil wells of 10,000 cubic feet of gas per barrel of oil, and 160-acre spacing units for both oil and gas wells.
- CASE 4709: Application of Continental Oil Company for downhole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to commingle production from the Eumont Gas Pool and the Penrose Skelly Oil Pool in the wellbore of its Lockhart A-17 Well No. l located in Unit L of Section 17, Township 21 South, Range 37 East, Lea County, New Mexico.
- CASE 4710: Application of Hanson Oil Corporation for an exception to Order No. R-3221, as amended, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an exception to Order No. R-3221, as amended, to dispose into unlined surface pits water produced by 22 wells located

# DOCKET: EXAMINER HEARING - FRIDAY - MAY 5, 1972

# 9 A.M. - OIL CONSERVATION COMMISSION CONFERENCE ROOM STATE LAND OFFICE BUI'DING - SANTA FE, NEW MEXICO

The following cases will be heard before Elvis A. Utz, Examiner, or Richard L. Stamets, Alternate Examiner:

# CASE 4689: (Continued from the April 5, 1972, Examiner Hearing)

Application of Petroleum Corporation of Texas for an exception to Order No. R-3221, as amended, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an exception to Order No. R-3221, as amended, to dispose into unlined surface pits water produced by its Dexter Federal Well No. 15 located in Unit J of Section 15, and all of its wells located or to be located in the NW/4 of Section 20, Township 17 South, Range 30 East, Grayburg-Jackson Pool, Eddy County, New Mexico.

- CASE 4697: Application of Texaco Inc. for a dual completion, Lea County. New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion (tubingless) of its V. M. Henderson Well No. 9 located in Unit G of Section 30, Township 21 South, Range 37 East, Lea County, New Mexico, in such a manner as to permit the production of oil from the Paddock and Tubb Pools through parallel strings of casing, cemented in a common well-bore.
- CASE 4698: Application of David Fasken for a dual completion, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion (conventional) of his Arco "9" Morrison Well No. 1 located in Unit B of Section 9, Township 19 South, Range 25 East, Eddy County, New Mexico, in such a manner as to produce gas from an undesignated Cisco gas pool through tubing and gas from the Boyd-Morrow Gas Pool through the casingtubing annulus.
- CASE 4711: Application of Shell Oil Company for commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to commingle North Vacuum Abo production from its State VB Com Well No. I located in Unit B of Section 19, Township 17 South, Range 35 East, Lea County, New Mexico, and from its State K Lease commissing the SE/4 of said Section 19 after separately metering the State VB Com production and determining the State K production by means of the subtraction method.
- Application of Penasco Corporation for a unit agreement, Eddy County,
  New Mexico. Applicant, in the above-styled cause, seeks approval of the
  Penasco Shugart Queen Sand Unit Area comprising 520 acres, more or less,
  of Federal and State lands in Sections 8, 9, 16, and 17, Township 18
  South, Range 31 East, Shugart Pool, Eddy County, New Mexico.

-3-Docket No. 10-72 Examiner Hearing - Friday, May 5, 1972

(Case 4710 continued)

or to be located in Sections 24, 25, 26, 34, and 35, Township 18 South, Range 30 East, Shugart Pool, Eddy County, New Mexico.

CASE 4704: Application of Atlantic Richfield Company for rededication of acreage, Lea County, New Mexico. Applicant, in the above-styled cause, seeks amendment of Order No. R-1932 to permit the 240-acre non-standard gas proration unit comprising the NE/4 NE/4 of Section 33 and the NW/4 and NW/4 NE/4 of Section 34, Township 19 South, Range 37 East, Eumont Gas Pool, Lea County, New Mexico, established by said order to be dedicated simultaneously to its J. H. Williams "Com" Well No. 3 and its J. H. Williams Well No. 5 located, respectively, in Units E and F of said Section 34.

CASE 4705: Application of Atlantic Richfield Company for waterflood projects, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks to institute three waterflood projects on its leases in Sections 19 and 30, Township 17 South, Range 31 East, Grayburg-Jackson Pool, Eddy County, New Mexico, by the injection of water into the Grayburg formation through five wells located in said Sections 19 and 30.

CASE 4706: Application of Kennedy Oil Company for a waterflood project, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project in the Grayburg-Jackson Pool by the injection of water into the Grayburg formation through its State "B" Well No. 1 located in the NW/4 SW/4 of Section 19, Township 17 South, Range 31 East, Eddy County, New Mexico.

CASE 4708: Application of Jake L. Hamon for salt water disposal, Lea County, New Mexico. Applicant- in the above-styled cause, seeks authority to dispose of produced salt water into the Pennsylvanian and Devonian formations in perforated and open-hole interval from 10,492 feet to 13,100 feet in his State B-2330 Well No. 1 located in Unit C of Section 31, Township 16 South, Range 36 East, East Shoebar-Devonian Field, Lea County, New Mexico.

CASE 4707: Application of Blackrock Oil Company for a dual completion, salt water disposal, and unorthodox location, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks authority to dually complete its Bates McIntyre Federal Well No. 1 at an unorthodox location 1980 feet from the North line and 660 feet from the East line of Section 9, Township 6 South, Range 27 East, Chaves County, New Mexico, in such a manner as to produce gas from the Haystack Cisco Gas Pool through tubing and to dispose of salt water down the casing-tubing annulus into the San Andres and other formations in the open-hole interval from 1186 feet to 4389 feet, the N/2 of said Section 9 would be dedicated to the well.

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|--------------------------------------------------------------------------|----------------------------------------|------------------------|---------------------|----------------------------------------------------------|--------------|
| 6                                                                        |                                        | A.R.Co.                | Mobil<br>H.B.P      | Skelly<br>H.B.P                                          |              |
| ervice<br>-73                                                            | Mobil                                  | Mobil H.B.P.           | Cit. Serve.         | 33                                                       |              |
| Allied Chem. 2 - 1 - 73                                                  | <b>.</b> .                             | Eastland (             |                     |                                                          |              |
| Eastland Oil                                                             |                                        | Eastland Oil<br>8-1-72 | J.Harrold<br>5-1-80 | A.R.Co. Canadian Apco<br>HBP HBP                         | T<br>18<br>S |
| # ( ## 5<br>2 # # 6<br>ex trac<br>m Injection Well<br>sed Injection Well | 42 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 14                     |                     | AREA PLAT GRAYBURG-JACKSON FIELD EDDY COUNTY, NEW MEXICO |              |
|                                                                          | 11                                     | EXHIBIT                | NO                  | F C.D.OWENS MANNEYC,D.MEEKI<br>MIL MEST ENG. (ME 4)      |              |

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|              | Anadarco: G                   | 8 25                                           | e' 🚱                        | i øi<br>I ga                                      |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------|-------------------------------|------------------------------------------------|-----------------------------|---------------------------------------------------|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|              | G Gen.An                      | Franklin Aston Foir HBP                        | Citles Ser.                 | Cities Service<br>1-18-76<br>中<br>M               | 1                          | ÷                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|              | Anadarco                      | 35                                             | <b>♦¹</b> ♦¹^               | Getty<br>H.B.P.                                   |                            | Cities<br>10 -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|              |                               |                                                | A.R.Co.                     | Cities Service                                    | ा                          | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|              |                               | Franklin Aston Fair<br>El Paso Nat. D/R<br>HBP | EI Paso Nat                 | Pennzoll<br>1-20-80                               | ۰                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| T<br>18<br>S |                               | R.Co.<br>BP∳!                                  |                             | and Oil<br>1-71 • f                               | Eastland Oil<br>G HBP      | g '                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|              | 2                             |                                                | 1                           | . G <sup>2</sup>                                  | • 2 6                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 1            |                               |                                                |                             |                                                   | init L<br>nit M<br>240's t |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| CA<br>Sub    | EXHIBITATE EXHIBITATE ASE NO. | ON COMMISSION T NO. /                          | SR —<br>G —<br>SA —<br>PAD— | Seven Rivers<br>Grayburg<br>San Andres<br>Paddock | $\wedge$                   | urrica                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|              |                               |                                                | <b>→</b> м –                | Abo<br>Morrow<br>Pennsylvanian                    |                            | A CONTRACTOR CONTRACTO |

|                            |                                        |                                            | R 31 E                                      |                              |                          |                       |                                                  |                             |                             |           |
|----------------------------|----------------------------------------|--------------------------------------------|---------------------------------------------|------------------------------|--------------------------|-----------------------|--------------------------------------------------|-----------------------------|-----------------------------|-----------|
| G SA                       | Ĝ°<br>Ŝ∧                               | 8<br>SA                                    | A.R.Co                                      | eg<br>SA                     | <b>△20</b><br><b>§</b> A |                       | A,R.                                             | Co.                         | <b>A</b> ''                 |           |
| <u>~</u>                   | G<br>SA                                | Ų<br>G SA                                  | es<br>SA                                    | SA.                          |                          |                       |                                                  | g × ⇔²²²<br>SA              | SA<br>ereey Co.             |           |
| GSA                        | Franklin eta<br>G<br>SA                | Franklin<br>ei al.                         | Sun<br>G<br>SA                              | • 5  <br>G  <br>SA           | Weir<br>Drig.            | Kersey                | <b>8</b> Co.<br><b>♦</b>                         | G SA                        | G-5A<br>hell D/R<br>lanagan |           |
| IC SA                      | e <sup>2</sup><br>G<br>SA              | SA SA                                      | G-SA                                        | Superior C                   | SR GSA O                 | Murchi                | son  <br>  3   1   1   1   1   1   1   1   1   1 | • G  <br>• SA               | G-SA                        |           |
| GA SR                      | G-SA<br>13<br>30<br>SR                 | GSA I                                      | iurchison  <br>G  <br>SA                    | SR 2G-SA                     | os of SR G-SA            | g-SA                  | 5Å                                               | Murch<br>G<br>SA<br>2       | 4<br>G<br>SA                |           |
| G-SA<br>SR                 | CSA SA                                 | G 17<br>SA SR                              | A.R.C                                       | G 31<br>SA SH                | G-SAI<br>GA SR           | Getty 2<br>SR         | G-SA • Co.                                       | ŠA                          | G<br>SA                     |           |
| Co.Co.<br>G-SA<br>E5<br>SR | eg sa<br>sr                            | S-SA<br>•29<br>SF.                         | A.R<br>G<br>SA<br>"B                        | .Co.<br>G-SA<br>R SR         | G-SA<br>55<br>SR         | 2SR<br>G-SA           | Skally                                           | G-SA<br>SR                  | g-sa<br>G-sa<br>sr          | T<br>17   |
| 34G-<br>17<br>21 SR<br>SR  | SA G-SA<br>SA 20 SR                    | 42<br>•G-SA<br>23 •SR<br>SR                | G-SA<br>SR                                  | •10<br>•G-SA<br>• 39<br>• SR |                          | 63 °SR<br>- G-SA      | SA 2                                             | R 9SR<br>665<br>G-SA<br>PAD | SA SA                       | S         |
| SA (-238.                  | ************************************** | 6-sa<br>\$4•67a                            | 79G<br>617<br>SR                            | G<br>IN SR                   | G 51<br>19<br>SR         | SRI4/69               | 13<br>•SR<br>68<br>G<br>SA                       | SR<br>G-SA                  | SR<br>SA<br>P               |           |
| R CO. A<br>SR O            | SA SA                                  | SR-G-SA<br>45 G-SA<br>21-13 SR<br>21-13 SR | SK                                          | G-SA<br>48-21SR<br>12<br>A   | 40 20 SR                 | SR<br>●15<br>●74<br>G | G SR                                             | ⊕ <sup>76</sup><br>G-SA     |                             |           |
| ^A.F                       | R.Co. 2<br>G<br>SA                     | 75 23 SR<br>23 SR<br>250<br>GG<br>SA       | A <sub>77</sub> 3A, R.(<br>G 43 25<br>SR "B | Co. 49A<br>176 SR            | A 74 0 59 22 6 SR SA     | G<br>SA               | 90<br>G<br>SA                                    | G<br>SA<br>Skelly           | es<br>G<br>SA               |           |
| Ğ.                         | - G<br>- SA                            | <b>⊗</b>                                   | <b>€</b> 5?                                 | • <b>4•</b><br>6             | <b></b> \$6<br>GA        | G<br>SA               | <b>93</b>                                        | \$4<br>G<br>SA<br>28        | G<br>SA                     |           |
| co.                        | G<br>G                                 | Ġ.                                         |                                             | G<br>SA                      | <b>62</b><br>G<br>SA     | <u>G</u>              | Ğ<br>Ş<br>SA                                     | G<br>SA                     |                             |           |
| 1                          | \^*                                    | 71                                         | <b>∧84</b>                                  | 43                           | A44                      | . 1                   |                                                  | er un State S               |                             | <b>\$</b> |

|         |                                                      |                                   |                                  | R 3                         | O E                       |                               |                               |                      |                                 |                                                                |
|---------|------------------------------------------------------|-----------------------------------|----------------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------------|----------------------|---------------------------------|----------------------------------------------------------------|
|         |                                                      | — — — –<br>Windfol                | Oil     Allied     Chem.         |                             | Windfo                    | . i                           | 2<br>1 37<br>1 SA<br>1 Windfe | 36<br>G<br>ohr Oil   | ŠĀ.                             | A.R.Co.                                                        |
|         |                                                      |                                   | 1 1                              |                             |                           | G-SA                          | G-SA                          | G-SA                 | SA                              | G-SA A.R.C                                                     |
|         | Union He                                             | Texas<br>3P                       | ! Windfoh<br>! "A'<br>!          | er Oil                      | Windfo                    | ohr Oil<br>31<br>G<br>SA      | Windfoh                       | ,29                  | ĞA                              | SA<br>•7<br>SA                                                 |
|         | Windfo                                               | ohr Oil<br>B"<br>I                |                                  | • <sup>24</sup><br>G<br>SA  | <b>25</b><br>SA           | SA I                          |                               | 20<br>20<br>5A<br>5A | SA                              | •7<br>SA<br>                                                   |
|         | 9 <sup>22</sup><br>G <sub>SA</sub>                   |                                   | ⊕ <sup>21</sup><br>G<br>SA       | G<br>SA                     | <b>∠is</b><br>Windfo      | SAIR<br>G-SA                  | I AITSA                       | G<br>SA              | \$2 G.SA<br>\$37<br>\$37<br>\$8 | SA 33                                                          |
|         | Petco<br>"B"<br>e <sup>l</sup><br>G-SA               | l<br>I 9<br>I G-SA                | БД<br>Ю<br>G-SA                  | G-SA                        | G<br>SA                   | G<br>SA                       | G<br>SA                       | G<br>SA              | SA <sup>4</sup> N<br>SR S       | <b>₩</b>                                                       |
| Т       | A.R.Co.<br>G<br>"c "SA                               | G-SA<br>Cities Ser.               | e<br>I G<br>SA                   | G<br>SA                     | <b>∕</b> §<br>SA          | G<br>SA                       | G-SA<br>Win                   | g-SA<br>dfohr Oll    | \$7.5<br>\$7.6                  | A SA<br>SA<br>SR                                               |
| 17<br>S | Maddren                                              | G<br>SA<br>SR<br>→ <sup>2</sup> ⊙ | Windfohr                         | Oil                         |                           | SA SA                         | G<br>SA<br>Allied Ch          | • G-SA<br>• If<br>sR | •G-S/                           | SR SR                                                          |
|         | A.R.Co.<br>SR <sub>2</sub> © <sup>5</sup><br>A''B''A | Anadarco<br>Alo<br>SR<br>SR       | 3<br>(-) <sub>65</sub><br>(-) SR | ⊕ <sup> 2</sup><br>A        | ⊙ <sup>24</sup>           | 2 ·<br>Q <sup>2 2</sup><br>A  | 14<br>• SF<br>©23             | - SR                 | ISING SA                        | \$R-4                                                          |
|         | Anadarco 6<br>G-SAI GSR<br>64(H) 5(II<br>SR G        |                                   | چ Gen, Am<br>SR ₀2<br>G          | ner. G<br>G<br>SA           | 27<br>G                   | в•                            | SR<br>G                       | 25<br>G 5<br>SR      | 90°                             | e, <b>©</b> ° 54<br><b>3</b>                                   |
| •       | A.R                                                  | .Co. ;                            | Gen. Arr                         | ner,<br>e <sup>2</sup><br>G | 6                         | 7<br>6                        | Allied Che                    | m.                   | 2G<br>SR                        | SR <sup>0</sup> 1<br><sup>0</sup> SR-6<br>Plemmons<br>- Hewitt |
|         | Franklin Ast                                         | on Fair                           | G Anada                          |                             | • <sup>8</sup><br>G       | <b>&amp;</b>                  | , 10<br>G                     |                      | e G<br>SA                       | G SR                                                           |
|         | Gen.Am.                                              | Franklin Aston Fair               | Franklin Asta                    | n Fair                      | Franklin A                | AstonFair   AstonFair   G   I | ١                             | Tenneco              |                                 | <b>A.</b>                                                      |
|         | ∠A c ·                                               |                                   |                                  |                             | The state of the state of |                               |                               | res del ref          | 77<br>II.                       |                                                                |

Field

County

GRAYBURG JACKSON

EDDY

State

NEW MEXICO

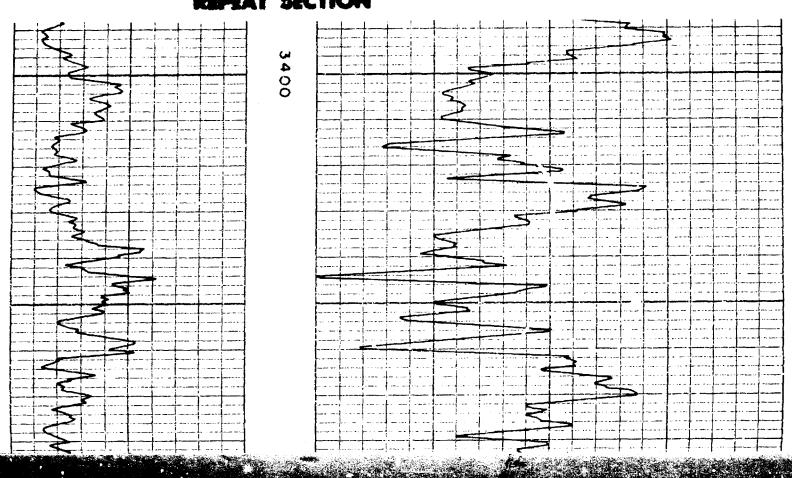
Lane-Wells T.D. 3595'

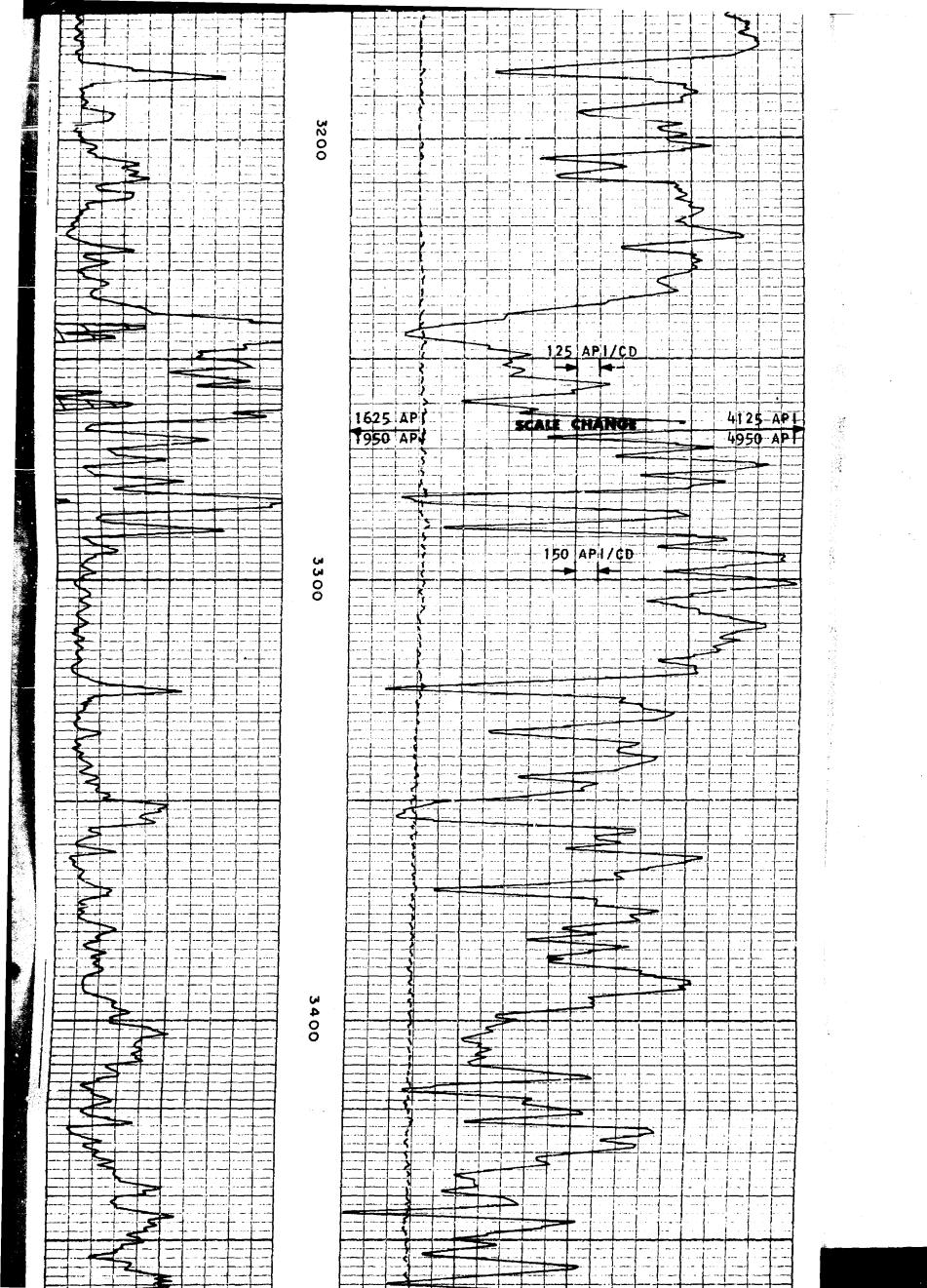
Elevations:

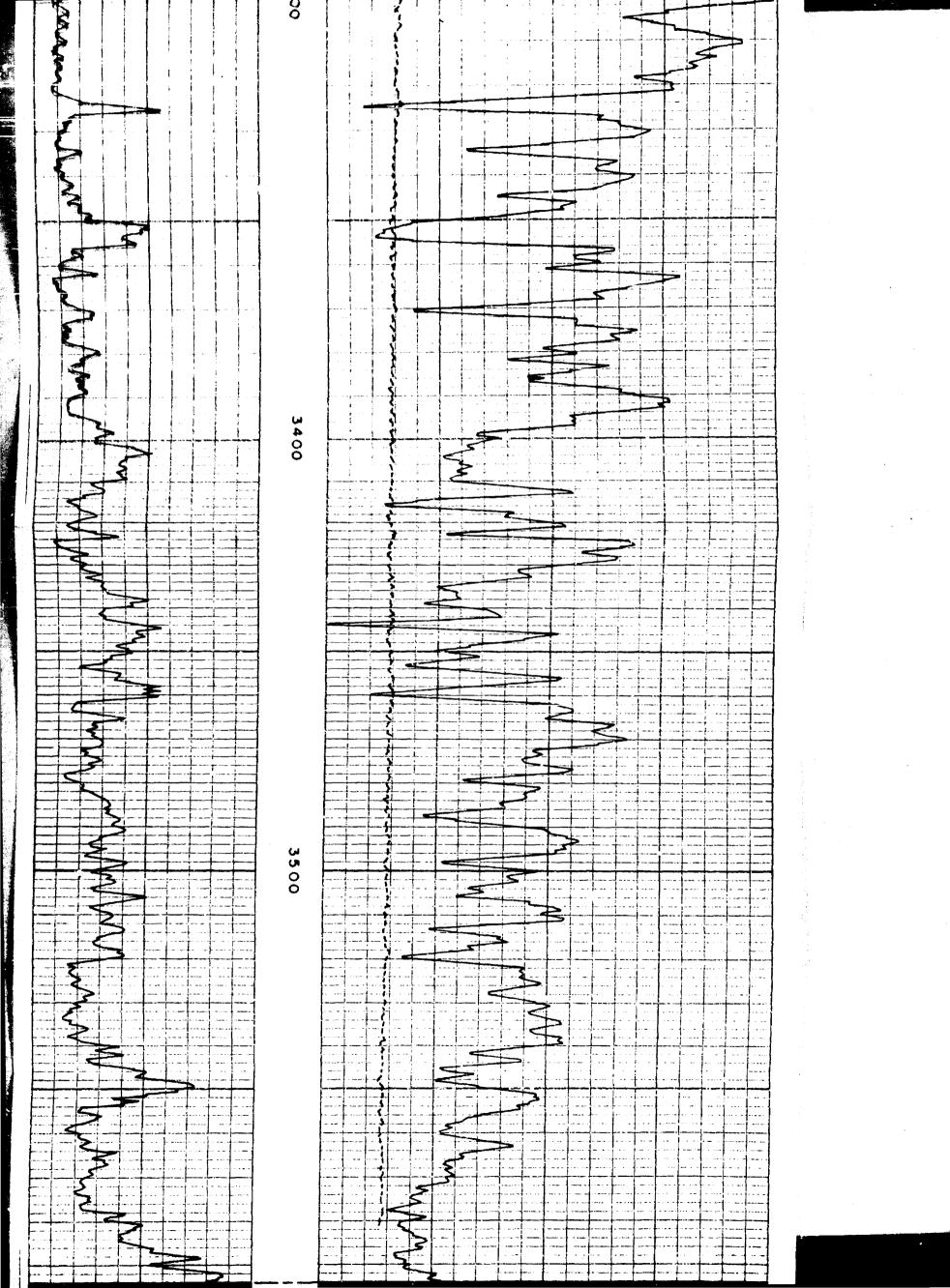
K.B.

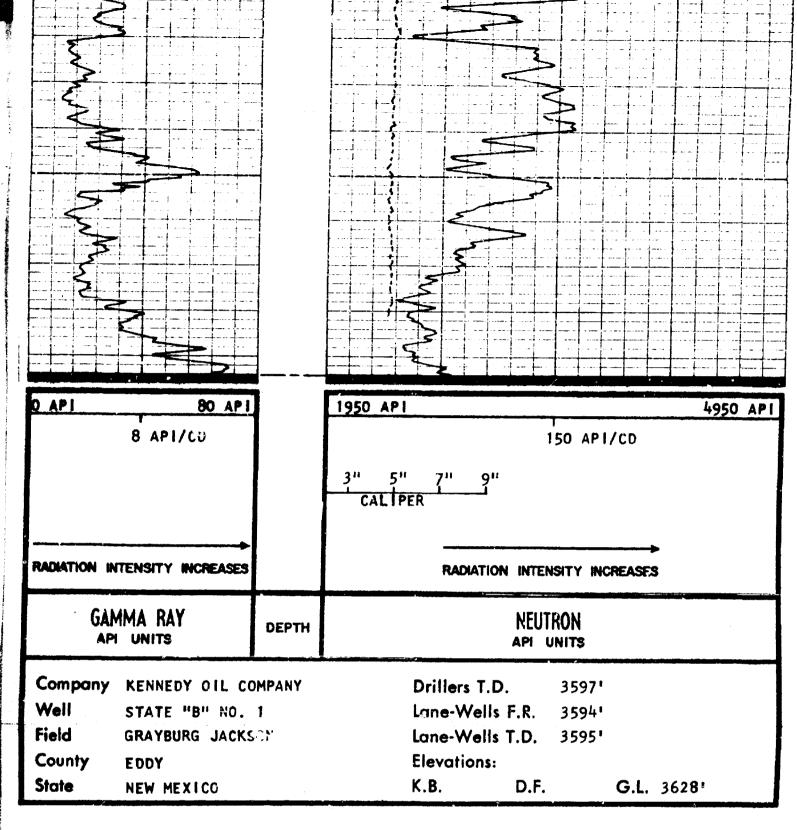
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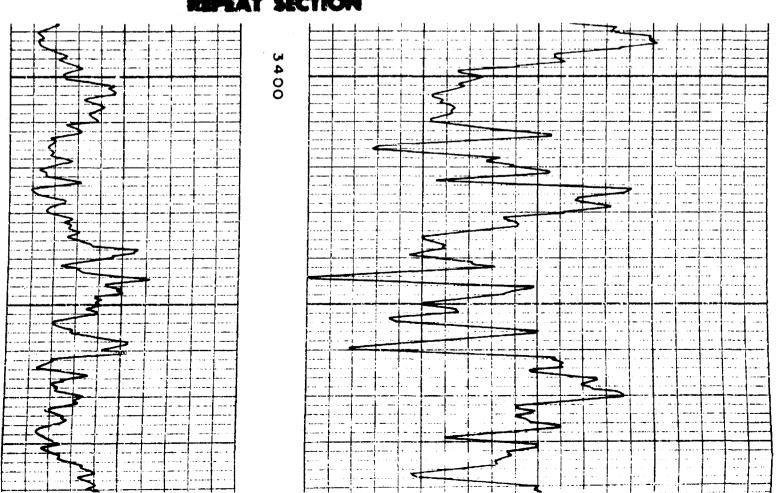


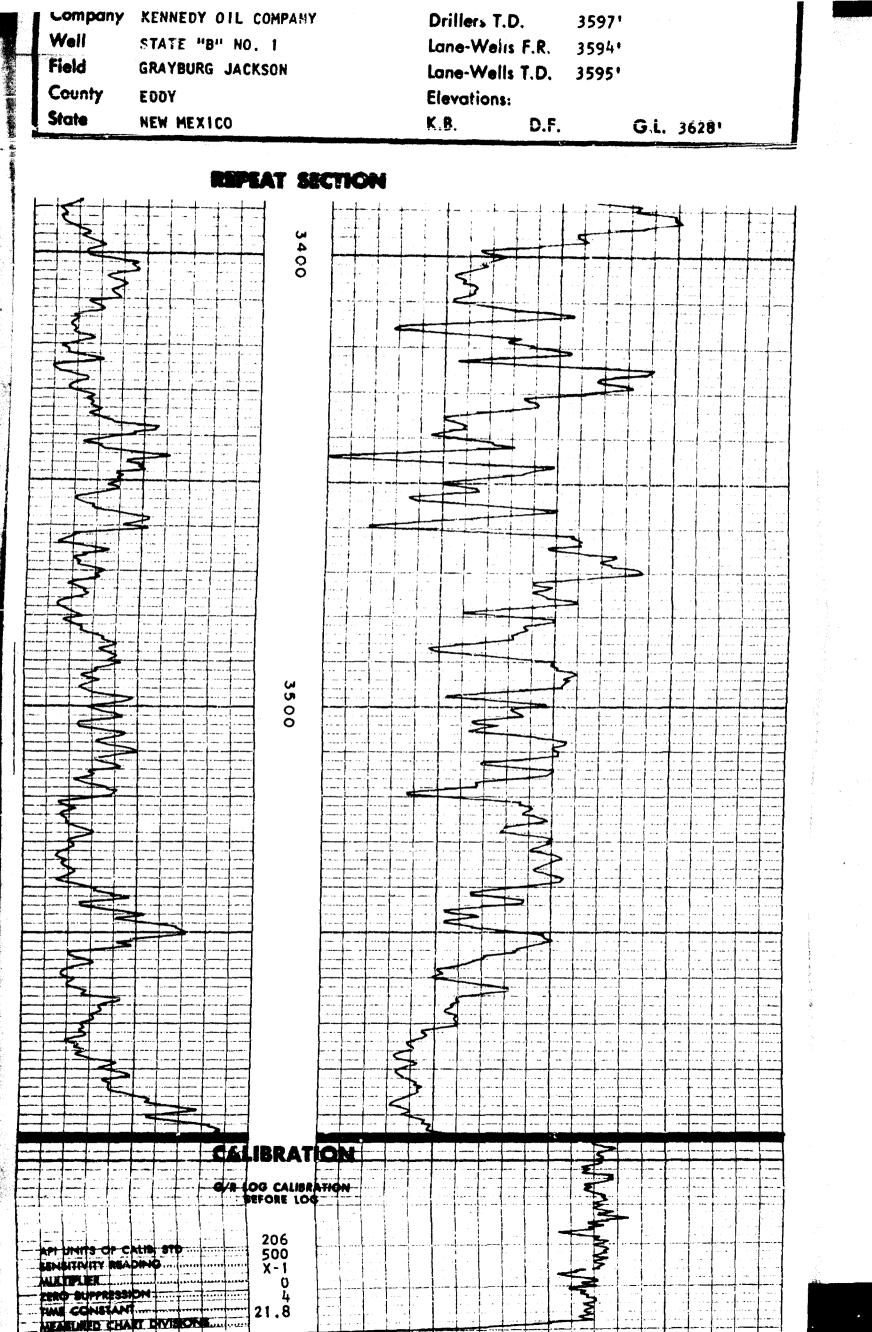






# EAT SECTION





|          | G/R CF CALIB STD EY READING FRESSION GRANT GENERAL DIVISIONS | CG CALIBRATION PEPORE LOG  206 500 X 1 0 4 21.8 | 1 1 1 |  |  |
|----------|--------------------------------------------------------------|-------------------------------------------------|-------|--|--|
| EBBO SUP | OF CALIB STD V READING PRESSION STANT                        | FORE LOG                                        |       |  |  |
|          |                                                              |                                                 |       |  |  |

KENNEDY OIL COMPANY - STATE "B" # 1 LOT-3 (NW/4 SW/4) Sec. 19, T-17S, R-31E NMPM STATE "B" FLOOD PROJECT GRAYBURG-JACKSON FIELD EDDY COUNTY, NEW MEXICO

| Y                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                  | Top cement behind 82 csg. 334 est.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                                                                                                                                                                                                                  | $8\frac{1}{4}$ " 28# casing set at 5001 (used)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|                                                                                                                                                                                                                                  | Top cement behind 7" csg. 718' est.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| V V                                                                                                                                                                                                                              | 7" 20# casing set at 1836' (new)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                                                                                                                                                                                  | Top cement behind 52" csg. 2335' est.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                                                                                                                                                                                                                  | 2 3/8" EUE 8rd, seamless tubing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                  | Grayburg Section 2718-3115'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Many                                                                                                                                                                                                                             | Perforations 2804-2816 (4/1) fundaments 2804-281 |
|                                                                                                                                                                                                                                  | 2"x5½" Tension Packer @ 3006' Perforations 3008-3014 (4/')                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                                                                                                                                                                                                                  | ( Alver Hills)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| atlans.                                                                                                                                                                                                                          | Perforations 3046-3054 (4/1) 51 14# casing J Seamless set 3053 (new)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                                                                                                                                                                                                                                  | 64" Open Hole 3053'-3105'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                                                                                                                                                                                                                                  | 500# Lead Wool Plug set @ 3115-31251                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| SAC                                                                                                                                                                                                                              | 4 7 8 Open Hole 3103-3395<br>BEFORE EXAMINER UTZ<br>OIL CONSERVATION COMMISSION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                  | Gravel 3595-3125XHIBIT NO. 3<br>CASE NO. 4706                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| en fan de fa<br>Litter de fan de fa | Total Depth 3595 Count (1) Hearing Date May 5 1972                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

BEFORE EXAMINER UTZ
OIL CONSERVATION COMMISSION
EXHIBIT NO. A
Securitied by Commission
Security Date
Houring Date
The Taken

\* 3%4 (W/2 SW/4)
c. 19, T-175, R-31E RMFW

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | State "B" # 6 4/4/69 PB    |                                        | State "B" # 5 7/9/68 PB | en presidente de la companya della companya de la c | "B" # 1                                                    | •            |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|----------------------------------------|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|--------------|--|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | PB 3617                    |                                        | PB 3630                 | 3606                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                            | E            |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3470 PB                    | reaching page and the community of the | 3490 PB                 | 3568                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3597                                                       | Ħ.b.         |  |
| The second secon | 8 5/8"<br>4 1/2"           |                                        | 8 5/8"<br>4 1/2"        | 8 1/4"<br>7"<br>5 1/2"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 8 1/4"<br>7"<br>5 1/2"                                     | SIZES        |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 24#<br>9.5#<br>10.5#       | 10.5#                                  | 24#<br>9_5#             | 28#<br>20#<br>14#                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 28#<br>. 20#<br>14#                                        | CASING<br>I  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 12 <i>5</i> 2<br>7088      | 7128                                   | 1370                    | 495<br>1851<br>3056                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 500<br>1836<br>3053                                        | ING<br>DEPTH |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 200<br>870                 | 850                                    | 200                     | 50<br>110<br>65                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 00<br>100<br>50                                            | CHMENT       |  |
| 326, 326, 3270, 3274, 32<br>3286, 3269, 3270, 3274, 32<br>3288, 3321, 3324, 3325, 3<br>33401, 3358, 3359, 33712,<br>3395, & 3410.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2860,28<br>3077,<br>31632, | 3046-3052<br>3169-3183<br>3189-3195    | 2841-2845               | 2980-2985<br>3008-3011<br>3013-3015<br>3020-3023<br>3056-3525 Open Itale                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2804-2816<br>3008-3014<br>3046-3053<br>3053-3595 Cpen Hole | Perfortions  |  |

# ACCUMULATIVE OIL PRODUCTION

|                             | Accumulative<br>to 1-1-72 | January 1972 | January 1972 February 1972 | Total Production<br>from Proration Unit |
|-----------------------------|---------------------------|--------------|----------------------------|-----------------------------------------|
| Sec. 19, T-17S, R-31E, NMPM |                           |              |                            |                                         |
| NW/4 SW/4 State "B" 1-5     | 35,028                    | 100          | 134                        | 2 , , , ,                               |
| SW/4 SW/4 State "B" 2-6     | 47,834                    | 101          | 135                        | 78,070                                  |
|                             |                           |              |                            |                                         |
|                             |                           |              |                            |                                         |
|                             |                           |              |                            |                                         |

KENNEDY OIL COMPANY STATE "B" FLOOD PROJECT GRAYBURG-JACKSON FIELD EDDY COUNTY, NEW MEXICO

| No or an advantage of the second seco |
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| BEFORE EXAMINER UTZ OIL CONSERVATION COMMISSION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| EXHIBIT NO. 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| CASE NO. 4706                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Submitted by Leurs a DAR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Hearing Date May 5 1972                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 7/4/2,/1/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

# Kennedy Oil Company

-CIL PRODUCERS-P. O. Box 151

Artesia, New Mexico

March 14, 1972

1 E TIVED

Case 4766

Mr. A.L. Porter, Jr. Secretary-Director New Mexico Oil Conservation Commission P.O. Box 2088 Santa Fe, New Mexico

Dear Mr. Porter:

Enclosed herewith you will please find three copies of the Application of Kennedy Oil Company for a waterflood project in the Grayburg-Jackson Field, Eddy County, New Mexico, with the attached data therein described.

clease do not schedule this application for hearing until you receive an Application, which is forthcoming from Atlantic Richfield Company, for an offset waterflood project.

I would appreciate your scheduling the ARCO hearing and Kennedy hearing in sequence, with the ARCO case first.

Thanking you, we remain.

Very truly yours,

Kennedy Oil Company

Robert B. Kennedy

DOCKET MARLED

TO PROMITE

#### BEFORE THE OIL CONSERVATION COMMISSION

OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE APPLICATION :
OF KENNEDY OIL COMPANY FOR A :
WATERFLOOD PROJECT, GRAYBURG :
JACKSON POOL, EDDY COUNTY, NEW :
MEXICO :

No. 4706

### APPLICATION

COMES KENNEDY OIL COMPANY, by its engineer, Robert B. Kennedy, and states:

1. That it is the operator of four producing oil wells in the Grayburg-Jackson Field, Eddy County, New Mexico, and within the proposed project area covered by this Application, to-wit:

# Township 17 South, Range 31 East, N.M.P.M.

Section 19: Lots 3&4 (W/2 SW/4)

containing 65.32 acres, more or less.

- 2. There is attached hereto and by reference made a part hereof, a plat showing the location of the wells covered by this Application and the location of all other wells and leases within a radius of two miles from the proposed project area, and designating the formations from which said wells are producing.
- 3. That the four producing wells within the project area covered by this application have reached an advanced or "stripper" state of depletion and the Applicant proposes to inject water into the producing or once producing Grayburg formation in sufficient quantities and under sufficient pressure to stimulate the production of oil from the producing wells in the project area.
- 4. That the Applicant proposes to commence injecting water into the Grayburg formation through the following proposed injection well, to-wit:

Kennedy Oil Company, State "B" #1 located in Lot-3 (NW/4 SW/4) of Section 19 Township 17 South, Range 31 East, N.M.P.M.

5. There is attached hereto and by reference made a part hereof a copy of the log of the Kennedy Oil Company, State "B" # 1.

- 6. There is attached hereto and by reference made a part hereof a diagrammatic sketch of the proposed injection well, and designated as the Kennedy Oil Company, State "B" # 1, showing all casing strings, including diameters and setting depths, quantities used and estimated tops of cement, perforated intervals and open hole sections, tubing string, including diameter and setting depth, and the type and location of the packer.
- 7. That Applicant proposes to contract for the purchase of water from the Atlantic Richfield Company, which in turn has a water supply system.
- 8. That Applicant proposes to inject water into the injection well at pressures up to 1800 p.s.i., and at rates up to 500 barrels per day.
- 9. That Applicant states that produced water will be returned to the injection plant, treated as necessary, and then re-injected in the waterflood area.
- 10. That the approval of this waterflood project will be in the interest of conservation and will prevent waste and protect correlative rights.

WHEREFORE, Applicant prays the orders of the Commission as follows:

- 1. That this matter be set for hearing before an examiner duly appointed by the Commission and that due notice be given thereof as required by law.
- 2. That after hearing, an order be entered authorizing the Applicant to institute the aforesaid waterflood project.
- 3. And for such other relief as may be just in the premises.

Kennedy Oil Company

By Fabris B Clining

Jon 4766

# SCHEMATIC DRAWING OF PROPOSED INJECTION WELL

KENNEDY OIL COMPANY - STATE "B" # 1 LOT-3 (NW/4 SW/4) Sec. 19, T-17S, R-31E NMPM STATE "B" FLOOD PROJECT GRAYBURG-JACKSON FIELD EDDY COUNTY, NEW MEXICO

| YYY                                     | Top cement behind $8\frac{1}{4}$ " csg. 334' est.                      |
|-----------------------------------------|------------------------------------------------------------------------|
|                                         | 81 28# casing set at 500 (used)                                        |
| 7 7 7                                   | Top cement behind 7" csg. 718! est.                                    |
|                                         |                                                                        |
|                                         | 7" 20# casing set at 1836' (new)                                       |
|                                         | Top cement behind $5\frac{1}{2}$ " csg. 23351 est.                     |
|                                         | 2 3/8" EUE 8rd, seamless tubing                                        |
|                                         | Grayburg Section 2718-3115                                             |
|                                         |                                                                        |
| 7 7 7                                   | Perforations 2804-2316 (4/1)                                           |
|                                         | 2"x5½" Tension Packer @ 3006'                                          |
| <b>サップ</b>                              | Perforations 3008-3014 (4/1)                                           |
|                                         | Perforations 3046-3054 (4/1) 5½ 14# casing J Seamless set@ 3053* (new) |
| 2 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |                                                                        |
| 2 3                                     | 64" Open Hole 3053'-3105'                                              |
|                                         | 500# Lead Wool Plug set @ 3115-3125'                                   |
|                                         | 4 7/8" Open Hole 3105-3595'                                            |
|                                         | Gravel 3595-3125                                                       |
|                                         | Total Depth 3595                                                       |

996/ 1900

Lot 3&4 (W/2 SW/4) Sec. 19, T-17S, R-31E NGPM

| State "B" #6                                                                                                                                                                                                                         | State "B" #5                                                  | : **                                                                    | State "B" #1                                               | LEASE & WELL MO.   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|-------------------------------------------------------------------------|------------------------------------------------------------|--------------------|
| 4/4/69 PB                                                                                                                                                                                                                            | 7/9/68 FB                                                     | 3/9/55                                                                  | 4/29/55                                                    | COMPLETION<br>DATE |
| 3617                                                                                                                                                                                                                                 |                                                               | 3606                                                                    | 3628                                                       | ELEVATION          |
| 3470 PB                                                                                                                                                                                                                              | 3490 PB                                                       | 3568                                                                    | 3: 77                                                      | T.D.               |
| 8 5/8" 24#<br>4 1/2" 9.5#<br>10.5#                                                                                                                                                                                                   | 8 5/8" 24#<br>4 1/2" 9.5#<br>10.5#                            | 8 1/4" 28#<br>7" 20#<br>5 1/2" 14#                                      | 8 1/4" 28#<br>7" . 20#<br>5 1/2" 14#                       | GA<br>SIZES        |
| 12 <i>5</i> 2<br>7088                                                                                                                                                                                                                | 1370<br>7128                                                  | 495<br>1851<br>3056                                                     | 500<br>1836<br>3053                                        | CASING<br>DEPTH    |
| 200<br>870<br>                                                                                                                                                                                                                       | <b>2</b> 00<br><b>8</b> 50                                    | 50<br>110<br>65                                                         | 50<br>100<br>60                                            | CEMENT             |
| 2857,2860,2861,2867,2868,2869,<br>30702,3077,3078,3079,3100,<br>31312,31632,3172,3203,3204,<br>32062,3212,32202, 32222,3255,<br>3256,3269,3270,3274,328722,<br>3288,3321,3324,3325,3333,<br>33402,3358,3359,337122,<br>3395, & 3410. | 2841-2845<br>2850-2854<br>3046-3052<br>3169-3183<br>3189-3195 | 2980-2985<br>3003-3011<br>3013-3015<br>3020-3023<br>3056-3525 Open Hole | 2804-2816<br>3008-3014<br>3046-3053<br>3053-3595 Open Hole | PERFORATIONS       |

20/4 Job

# ACCUMULATIVE OIL PRODUCTION

|         | SW/4 SW/4 State "B" 2-6 | Sec. 19. T-17S, R-31E, NMPM<br>NW/4 SW/4 State "B" 1-5 | Proration Unit                            |
|---------|-------------------------|--------------------------------------------------------|-------------------------------------------|
|         | 47,834                  | 35,028                                                 | Accumulative to 1-1-72                    |
| 1, 3, 4 | 101                     |                                                        | January 1972 February                     |
|         | 135                     | 13/                                                    | February 1972                             |
| •       | 48,070                  |                                                        | 1972 Total Production from Proration Unit |

KENNEDY OIL COMPANY
STATE "B" FLOOD PROJECT
GRAYBURG-JACKSON FIELD
EDDY COUNTY, NEW MEXICO

DRAFT

South. BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEMICO

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

THE PURPOSE OF CONSIDERING:

CASE NO.

Order No. R-4302

APPLICATION OF KENNEDY OF COMPANY FOR A WATERFLOOD PROJECT, EDDY COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

#### BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on May 5 at Santa Fe, New Mexico, before Examiner Elvis A. Utz NOW, on this \_\_\_\_\_day of \_\_\_May  $\underline{\phantom{a}}$ , 19 $\frac{72}{}$ , the Commission, a

and the recommendations of the Examiner, and being fully advised in the premises,

quorum being present, having considered the testimony, the record,

# 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, Kennedy Oil Company, seeks authority to institute a waterflood project in the Unit-Area Grayburg-Jackson Pool by the injection of water into the Grayburg formation through its State "B" Well No. 1, located # NWWSW/d in Unit \_\_\_ of Section 19, Township 17 South, Range 31 East, NMPM, Eddy County, New Mexico.

- procedure whereby said project could be expanded to include additional injection wells in the area of the said project as may be necessary in order to complete an efficient injection pattern; that said administrative procedure should provide for administrative approval for conversion to water injection in exception to the well response requirements of Rule 701 E-5 of the Commission Rules and Regulations.
- (3) In That the wells in the project area are in an advanced state of depletion and should properly be classified as "stripper" wells.
- (4) (5) That the proposed waterflood project should result in the recovery of otherwise unrecoverable oil, thereby preventing waste.
- That the subject application should be approved and the project should be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations. provided however, that the showing of well response as required by Rule 701 E-5 should not be necessary before obtaining administrative approval for the conversion of additional wells to water injection.

# IT IS THEREFORE ORDERED:

- designated the Lewely Stee Byrong waterflood

  Project and shall be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations.

-3-CASE NO. 4706 Order No. R-

PROVIDED HOVEVER, that the Secretary-Director of the Commission may approve expansion of the above-described water-flood project to include such additional injection wells in the area of said project as may be necessary to complete an efficient water injection pattern; that the showing of well response as required by Rule 701 i-5 shall not be necessary before obtaining administrative approval for the conversion of additional wells to water injection.

- (3) That monthly progress reports of the waterflood project herein authorized shall be submitted to the Commission in accordance with Rules 704 and 1120 of the Commission Rules and Regulations.
- (4) 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.

ROUGH DRAFT FOR WATERFLOOD LETTERS Mr. Robert B. Kennedy Kennedy Oil Company Post Office Box 151

Artesia, New Mexico 88210

Dear Sir: Commission Order No. R-4302, entered in Case No. , approving the Kennedy State B Grayburg Jackson Waterflood Project.

societion into the one anthorized water societion will shall be through tubing into coralines and agenthale in the overall inter 3008 feet to 3115 feet. It is our under also flood perforations 2804-2816 fee you start this answer each trait the water for arrowing prevent As to allowable, our calculations indicate that when all of the authorized injection wells have been placed on active injection, the maximum allowable which this project will be eligible to receive under the provisions of Rule 701-E-3 is //2 \_\_\_\_barrels per day when the Southeast New Mexico

Please report any error in this calculated maximum allowable immediately, both to the Santa Fe office of the Commission and the appropriate district proration office.

normal unit allowable is 42 barrels per day or less.

In order that the allowable assigned to the project may be kept current, and in order that the operator may fully benefit from the allowable provisions of Rule 701, it behooves him to promptly notify both of the aforementioned Commission offices by letter of any change in the status of wells in the project area, i.e., when active injection commences, when additional injection or producing wells are drilled, when additional wells are acquired through purchase or unitization, when wells have received a response to water injection, etc.

Your cooperation in keeping the Commission so informed as to the status of the project and the wells therein will be appreciated.

Very truly yours,

A. L. PORTER, Jr. Secretary-Director

CC: OCC: Hobbs Artesia\_x

**USGS** 

MINITED TO STATE Engineer Office, Santa Fe, New Mexico

Mr. D. E. Gray,

CASE 4707: Application of BLACK-ROCK OIL CO. FOR DUAL COMPLETION,
SALT WATER DISPOSAL & UNORTH. LOC.