

CASE 2435: Application of CITIES
SERVICE for a triple completion of
its HODGES "B" WELL NO. 3.

-asa//o.

2435

dition, Transcript,
all Exhibits, Etc.

GOVERNOR
EDWIN L. MECHEM
CHAIRMAN

State of New Mexico
Oil Conservation Commission



LAND COMMISSIONER
E. S. JOHNNY WALKER
MEMBER

P. O. BOX 871
SANTA FE

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

December 21, 1961

Mr. Jason Kellahin
Kellahin & Fox
Attorneys at Law
Box 1713
Santa Fe, New Mexico

Re: Case No. 2435
Order No. R-2148
Applicant:

Cities Service Oil Company

Dear Sir:

Enclosed herewith are two copies of the above-referenced
Commission order recently entered in the subject case.

Very truly yours,

A. L. Porter, Jr.

A. L. PORTER, Jr.
Secretary-Director

ir/

Carbon copy of order also sent to:

Hobbs OCC x

Artesia OCC

Aztec OCC

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. 2435
Order No. R-2148

APPLICATION OF CITIES SERVICE OIL
COMPANY FOR A TRIPLE COMPLETION,
LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on November 29, 1961, at Santa Fe, New Mexico, before Daniel S. Nutter, Examiner duly appointed by the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission," in accordance with Rule 1214 of the Commission Rules and Regulations.

NOW, on this 21st day of December, 1961, the Commission, a quorum being present, having considered the application, the evidence adduced, and the recommendations of the Examiner, Daniel S. Nutter, and being fully advised in the premises,

FINDS:

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

(2) That the applicant, Cities Service Oil Company, is the owner and operator of the Hodges "B" Well No. 3, located in Unit L of Section 1, Township 25 South, Range 37 East, NMPM, Lea County, New Mexico.

(3) That the applicant proposes to complete the above-described Hodges "B" Well No. 3 as a triple completion (conventional) in the North Justis Field in such a manner as to permit the production of oil from the Blinbry formation through a string of 2 1/16-inch tubing and the production of oil from the Drinkard and Fusselman formations through parallel strings of 2 3/8-inch tubing, separation of the zones to be by packers.

(4) That the mechanics of the proposed triple completion are feasible and in accord with good conservation practices.

(5) That approval of the subject application will neither cause waste nor impair correlative rights.

-2-

CASE No. 2435

Order No. R-2148

IT IS THEREFORE ORDERED:

(1) That the applicant, Cities Service Oil Company, is hereby authorized to complete its Hodges "B" Well No. 3, located in Unit L of Section 1, Township 25 South, Range 37 East, NMPM, North Justis Field, Lea County, New Mexico, as a triple completion (conventional) in such a manner as to permit the production of oil from the Blinabry formation through a string of 2 1/16-inch tubing and the production of oil from the Drinkard and Fusselman formations through parallel strings of 2 3/8-inch tubing, separation of the zones to be by packers.

PROVIDED HOWEVER, That the operator shall complete, operate, and produce said well in accordance with the provisions of Rule 112-A of the Commission Rules and Regulations.

PROVIDED FURTHER HOWEVER, That the applicant shall take packer-leakage tests upon completion and annually thereafter during the Annual Gas-Oil Ratio Test Period for the Fusselman zone and at such other times as the Secretary-Director of the Commission may prescribe.

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

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

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION



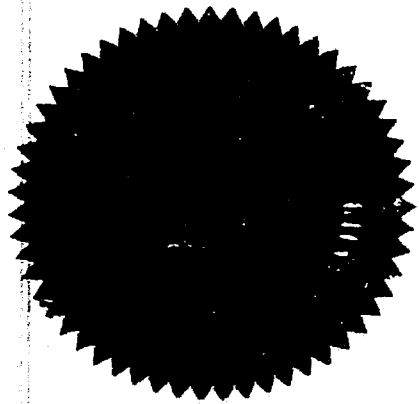
EDWIN L. MECHEM, Chairman



E. S. WALKER, Member



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



esr/

DOCKET: EXAMINER HEARING - WEDNESDAY - NOVEMBER 29, 1961

9 A.M. - OIL CONSERVATION COMMISSION CONFERENCE ROOM
STATE LAND OFFICE BUILDING - SANTA FE, NEW MEXICO

The following cases will be heard before Daniel S. Nutter, Examiner, or
Elvis A. Utz, as alternate examiner:

Cases listed on this docket after Case 2444 will not be heard before 1 P.M.

CASE 2434: Application of Amerada Petroleum Corporation for a dual completion and a 160-acre non-standard gas proration unit, Lea County, New Mexico. Applicant, in the above-styled cause, seeks permission to complete its State DA Well No. 1 located in Unit L, Section 16, Township 21 South, Range 37 East, Lea County, New Mexico, as a dual completion (conventional) in the Eumont Gas Pool and the Drinkard Pool, with the production of oil from the Drinkard zone to be through a string of 2 3/8-inch tubing and the production of gas from the Eumont zone to be through the tubing-casing annulus. Applicant further seeks the establishment of a 160-acre non-standard gas proration unit in the Eumont Gas Pool, comprising the N/2 S/2 of said Section 16, said unit to be dedicated to said State DA Well No. 1.

CASE 2435: Application of Cities Service Oil Company for a triple completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks permission to complete its Hodges "B" Well No. 3, located in Unit L of Section 1, Township 25 South, Range 37 East, Lea County, New Mexico, as a triple completion (conventional) in undesignated Blinebry and Drinkard pools and in the Fusselman formation adjacent to the North Justis-Fusselman pool, with the production of oil from the Blinebry and Drinkard zones to be through parallel strings of 2 1/16-inch tubing and the production of oil from the Fusselman zone to be through a parallel string of 2 3/8-inch tubing.

CASE 2436: Application of Hudson & Hudson for two unorthodox oil well locations, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval of two unorthodox oil well locations in the Maljamar Pool, one well to be located within 100 feet and not less than 25 feet of the Southeast corner of Unit J, Section 24, Township 17 South, Range 31 East, Eddy County, New Mexico, and one well to be located within 100 feet and not less than 25 feet of the Northwest corner of Unit O in said Section 24.

CASE 2437: Application of J. C. Williamson for a dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks permission to complete its Westates-Federal Well No. 6, located in Unit D of Section 1, Township 25 South, Range 37 East, Lea County, New Mexico, as a dual completion (conventional) in the McKee and Ellenburger formations with the production of oil from both zones to be through parallel strings of 2 3/8-inch tubing.

CASE 2438: Application of Texaco Inc. for a triple completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks permission to complete its V. M. Henderson Well No. 6, located in Unit C of Section 30, Township 21 South, Range 37 East, Lea County, New Mexico, as a triple completion in the Paddock, Blinebry Gas, and Drinkard Pools with the production of oil from the Drinkard formation to be through a tapered string of tubing of 2 1/16-inch and 1 1/4-inch diameter and from the Paddock formation to be through a parallel string of 2 1/16-inch tubing and the production of gas from the Blinebry formation to be through the tubing-casing annulus.

CASE 2421: (Cont.)
Application of Texaco Inc. for approval of a unit agreement and for a waterflood project, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Northeast Caprock (Queen) Unit Agreement, covering 1360 acres, more or less, in Township 12 South, Range 32 East, Caprock Queen Pool, Lea County, New Mexico. Applicant further seeks authority to institute a unit-wide waterflood by the injection of water into the Queen formation through 19 wells located within said unit.

CASE 2439: Application of Sunray Mid-Continent Oil Company for a 67.04-acre non-standard oil proration unit and an unorthodox well location, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks the establishment of 67.04-acre non-standard oil proration unit in the Totah-Gallup Oil Pool, comprising Lots 2, 3 and 4 of Section 14, Township 29 North, Range 14 West, San Juan County, New Mexico, said unit to be dedicated to a well to be located at an unorthodox location 330 feet from the North line and 2510 feet from the West line of said Section 14.

CASE 2440: Application of Socony Mobil Oil Company for permission to transfer allowables, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks permission to shut-in the Boulder-Apache Well No. 12-14, located in Section 14, Township 28 North, Range 1 West, Boulder-Mancos Oil Pool, Rio Arriba County, New Mexico, and transfer its allowable to the Boulder-Apache Well No. 23-14 located in said Section 14 for the purpose of conducting interference tests.

CASE 2441: Application of Water Flood Associated, Inc., for a waterflood project in the Maljamar and Robinson Pools, Lea County, New Mexico. Applicant, in the above-styled cause, seeks permission to institute a waterflood project in the Maljamar and Robinson Pools in portions of Sections 5, 6 and 7, all in Township 17 South, Range 32 East, Lea County, New Mexico.

CASE 2442: Application of El Paso Natural Gas Company for a dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks permission to complete its Mescalero Ridge Unit Well No. 1, located in Unit D of Section 21, Township 19 South, Range 34 East, Lea County, New Mexico, as a dual completion (conventional) in the Bone Springs and Morrow formations, with the production of oil from the Bone Springs zone to be through a string of 2 3/8-inch tubing and the production of gas from the Morrow zone to be through a parallel string of 2 1/16-inch tubing.

CASE 2443: Application of Gulf Oil Corporation for an 80-acre non-standard gas proration unit, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the establishment of an 80-acre non-standard gas proration unit in the Eumont Gas Pool, comprising the E/2 NE/4 of Section 34, Township 19 South, Range 36 East, Lea County, New Mexico, said unit to be dedicated to the J. W. Smith Well No. 2, located 660 feet from the North and East lines of said Section 34.

The following cases will not be heard before 1 P.M.

CASE 2444: Application of Aztec Oil & Gas Company for an exception to Rule 309-A, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks an exception to Rule 309-A to permit the Totah-Gallup oil production from three wells on

applicant's Hagood Federal Lease, located in Section 19, Township 29 North, Range 13 West, San Juan County, New Mexico, to be transported prior to measurement on said lease to applicant's Smith "C" Lease, located in Section 18, Township 29 North, Range 13 West.

CASE 2445:

Application of Southwest Production Company for an order extending the Flora Vista-Mesaverde Pool, San Juan County, New Mexico, and establishing special rules and regulations in said pool. Applicant, in the above-styled cause, seeks an order extending the Flora Vista-Mesaverde Pool to include Sections 22, 23, 26 and 27, all in Township 30 North, Range 12 West, San Juan County, New Mexico, and establishing special rules and regulations including a provision for 320-acre spacing units in said pool.

CASE 2446:

Application of Southwest Production Company for an order pooling all mineral interests in the Basin-Dakota Gas Pool in the E/2 of Section 22, Township 30 North, Range 12 West, San Juan County, New Mexico. Interested parties include Roy Rector and O. G. Shelby, both of Flora Vista, New Mexico, and Myron T. Dale, address unknown.

CASE 2416:

(Cont.)

Application of Southwest Production Company for an order pooling all mineral interests in an undesignated Mesaverde gas pool in the E/2 of Section 22, Township 30 North, Range 12 West, San Juan County, New Mexico.

CASE 2447:

Application of Humble Oil & Refining Company for approval of a pressure maintenance project in the Cha Cha-Gallup Oil Pool, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks permission to institute a pressure maintenance project in the Cha Cha-Gallup Oil Pool by the injection of water into certain wells located on the Navajo Indian Reservation in Sections 13 through 29 and 33 through 36, Township 29 North, Range 14 West, San Juan County, New Mexico. Applicant further seeks the promulgation of special rules and regulations governing said project.

CASE 2448:

Application of Pan American Petroleum Corporation for a pressure maintenance project, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks permission to institute a pressure maintenance project on its C. J. Holder,

State Holder Oil Unit, State "CA", State Oil Unit and Gallegos Canyon Unit Leases, San Juan County, New Mexico, in the Cha Cha-Gallup Oil Pool with water injection initially to be through five wells located in Sections 8 and 16, Township 28 North, Range 13 West, and Section 23, Township 28 North, Range 12 West, and requests adoption of special rules to govern the operation of said project.

CASE 2449:

Application of Pan American Petroleum Corporation for a pressure maintenance project, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks permission to institute a pressure maintenance project on its Navajo Tribal "H" and Gallegos Canyon Unit Leases, San Juan County, New Mexico, in the Totah-Gallup Oil Pool with water injection initially to be through five wells located in Section 35, Township 29 North, Range 13 West, Section 12, Township 28 North, Range 13 West, and Sections 13 and 24, Township 29 North, Range 14 West, and requests adoption of special rules to govern the operation of said project.

CITIES SERVICE PETROLEUM COMPANY



FORMERLY NAMED

Case 2435

CITIES SERVICE OIL COMPANY

BOX 97

HOBBS, NEW MEXICO

November 7, 1961

New Mexico Oil Conservation Commission
P. O. Box 871
Santa Fe, New Mexico

Attention: Mr. A. L. Porter, Jr.

Gentlemen:

Cities Service Petroleum Company respectfully requests that the Oil Conservation Commission schedule a hearing at the earliest possible date to consider this application to complete the Hodges 'B' #3, located 1880' FSL and 330' FWL, Unit L, Section 1, T-25S, R-37E, Lea County, New Mexico, as a triple completion in the Blinbry, Drinkard and Fusselman pools. Production of oil from these pools will be through two strings of 2 1/16" tubing and one string of 2 3/8" tubing.

A plat is attached showing the location of the Hodges 'B' #3 together with the location of all offset wells. Also attached is a diagrammatic sketch of the proposed triple completion and New Mexico Oil Conservation Commission 'Application for Dual Completion' form.

Very truly yours,

CITIES SERVICE PETROLEUM COMPANY

E. F. Motter

E. F. Motter
Asst. Division Engineer

EFM/sjb

Attachments

NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

Triple
APPLICATION FOR DUAL COMPLETION

Case 2435 7-3-58

Field Name North Justis		County Lea	Date 11-7-61
Operator Cities Service Petroleum Co.		Lease Hodges B	Well No. 3
Location of Well L	Unit 1	Section 25-S	Township 37-E

1. Has the New Mexico Oil Conservation Commission heretofore authorized the dual completion of a well in these same pools or in the same zones within one mile of the subject well? YES _____ NO X **triple**
2. If answer is yes, identify one such instance: Order No. _____; Operator, Lease, and Well No.:

3. The following facts are submitted:	Upper Zone	Lower Zone
a. Name of reservoir	Blinbry	Drinkard
b. Top and Bottom of Pay Section (Perforations)	5300 5620	5690 6250
c. Type of production (Oil or Gas)	Oil	Oil
d. Method of Production (Flowing or Artificial Lift)	Flow	Flow

4. The following are attached. (Please mark YES or NO)

- X a. Diagrammatic Sketch of the Dual Completion, showing all casing strings, including size and setting, top of cement, perforated intervals, tubing strings, including diameters and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent.
- X b. Plat showing the location of all wells on applicant's lease, all offset wells on offset leases, and the names and addresses of operators of all leases offsetting applicant's lease.
- _____ c. Waivers consenting to such dual completion from each offset operator, or in lieu thereof, evidence that said offset operators have been furnished copies of the application.*
- _____ d. Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perforation indicated thereon. (If such log is not available at the time application is filed, it shall be submitted as provided by Rule 112-A.)

5. List all offset operators to the lease on which this well is located together with their correct mailing address.

J. C. Williamson, 606 V&J Tower	Sinclair Oil & Gas Co., 520 E. Broadway
Midland, Texas	Hobbs, New Mexico
Humble Oil & Refining Co., Box 2347	Western Natural Gas Co., Box 1060
Hobbs, New Mexico	Jal, New Mexico
Leonard Oil Co., Box 708	Pan American Oil Co., Box 68
Roswell, New Mexico	Hobbs, New Mexico
Claude Alkman, Box 2090	Texas Pacific Coal & Oil Co., Box 1688
San Angelo, Texas	Hobbs, New Mexico
Shelly Oil Co., Box 38	
Hobbs, New Mexico	

6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES _____ NO X . If answer is yes, give date of such notification _____.

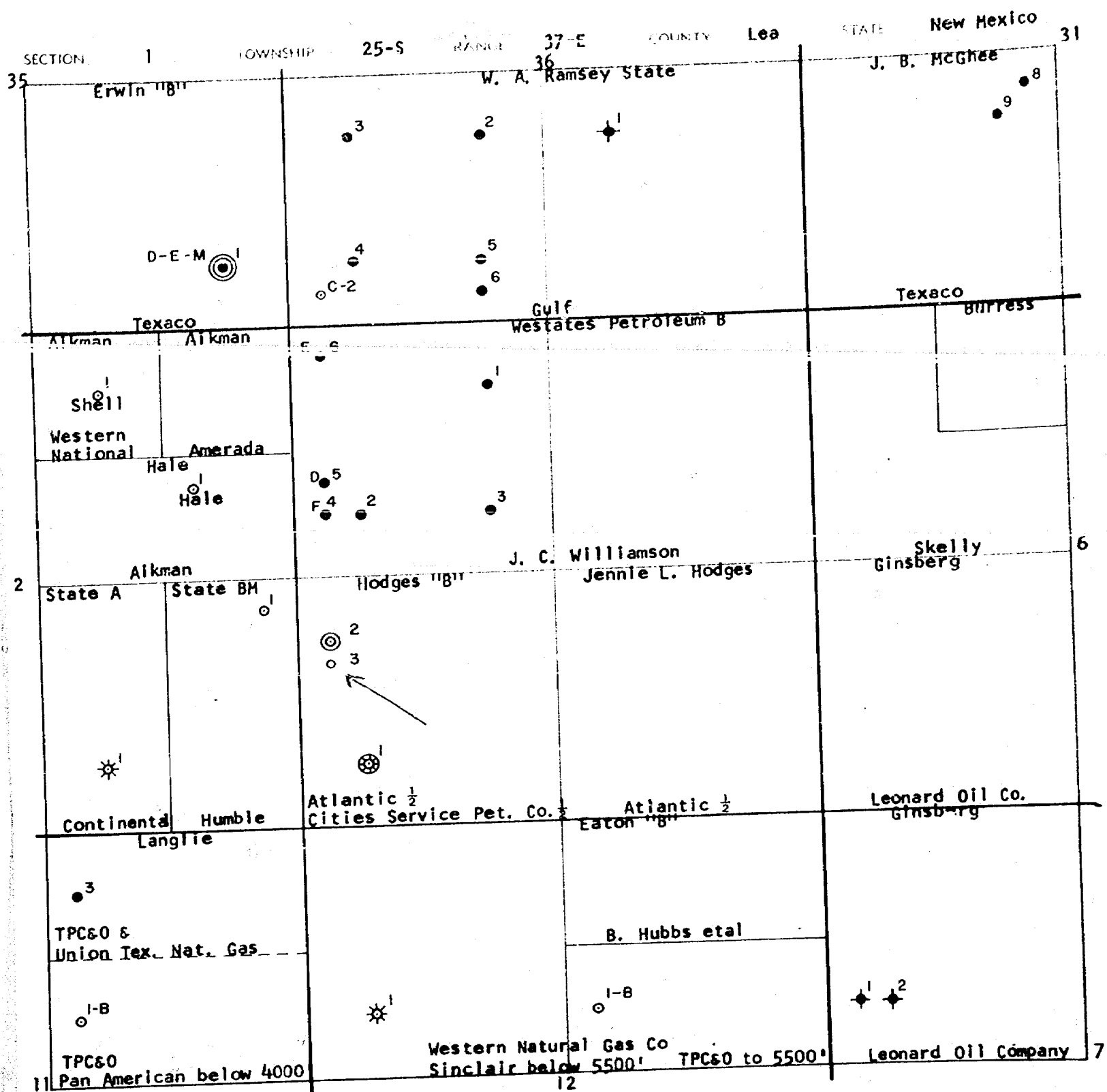
CERTIFICATE: I, the undersigned, state that I am the Agent of the Cities Service Petroleum Co. (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

E. F. Motter
Signature

- * Should waivers from all offset operators not accompany an application for administrative approval, the New Mexico Oil Conservation Commission will hold the application for a period of twenty (20) days from date of receipt by the Commission's Santa Fe office. If, after said twenty-day period, no protest nor request for hearing is received by the Santa Fe office, the application will then be processed.
- NOTE: If the proposed dual completion will result in an unorthodox well location and/or a non-standard proration unit in either or both of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

1915 915 ROSS MARTIN CO.
 SECTION PLAT
 Scale: 1 inch 660 feet
 Printed in U.S.A.

CITIES SERVICE PETROLEUM COMPANY

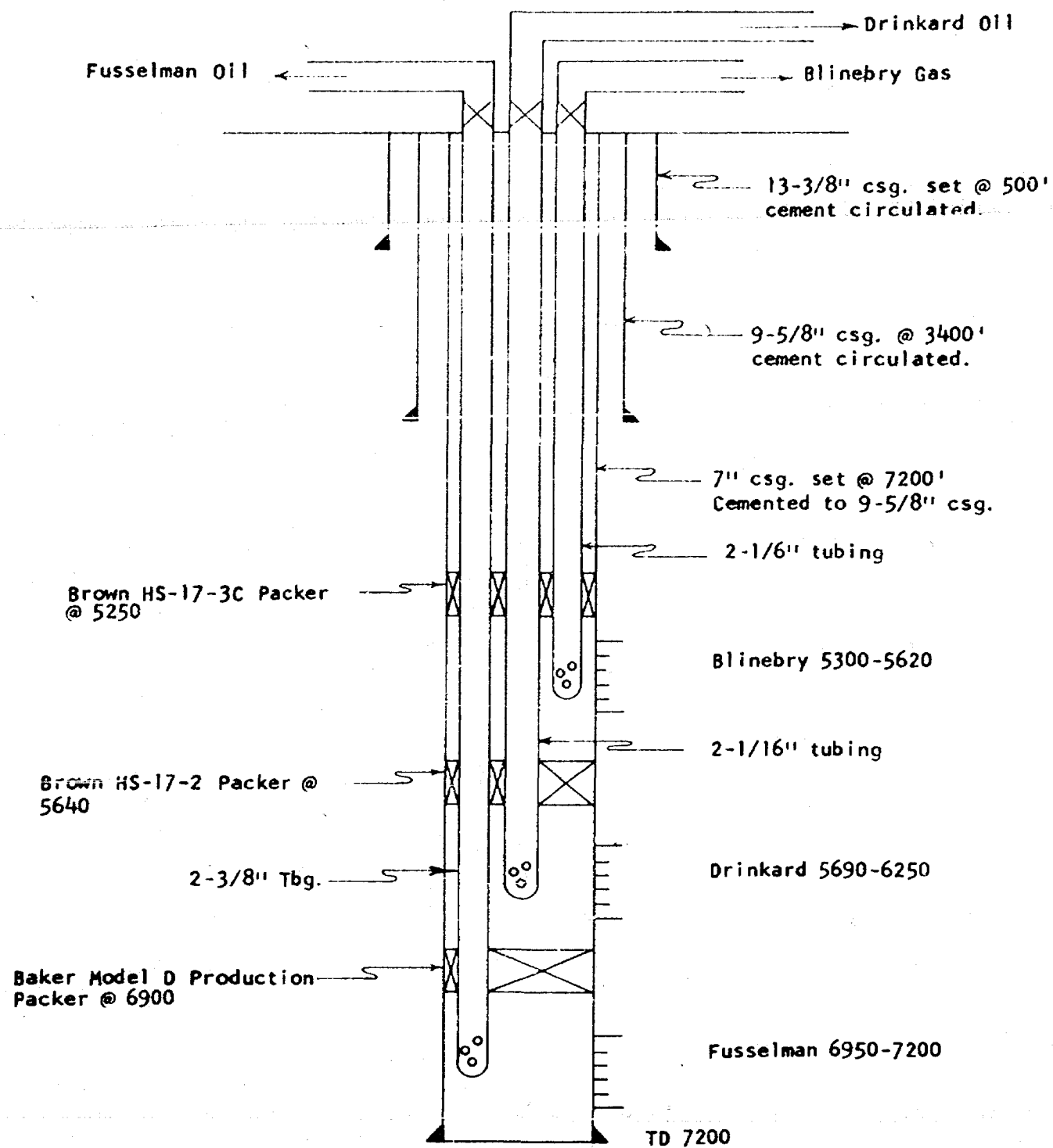


D - Drinkard
 E - Ellenburger
 F - Fusselman
 M - McKee

Plat Showing the Proposed
 Completion, Hodges B #2 and off-
 set operators

CITIES SERVICE PETROLEUM COMPANY
HODGES "B" #3

Proposed Triple Completion.



CITIES SERVICE PETROLEUM COMPANY



FORMERLY NAMED

CITIES SERVICE OIL COMPANY

BOX 97

HOBBS, NEW MEXICO

December 4, 1961

New Mexico Oil Conservation Commission
P. O. Box 871
Santa Fe, New Mexico

Attention: Mr. Dan Nutter

Gentlemen:

Attached are photostats of schematic drawings of the Brown Oil Tool packers HS-17-2C and HS-17-3C which are proposed for use in the Cities Service Hodges B #3, North Justis Pool, Lea County, New Mexico.

These drawings were requested in Case No. 2435.

Very truly yours,

CITIES SERVICE PETROLEUM COMPANY

A handwritten signature in cursive script, appearing to read "E. F. Motter".

E. F. Motter
Asst. Division Engineer

EFM/sjb

Attachments

CLASS OF SERVICE

This is a fast message unless its deferred character is indicated by the proper symbol.

WESTERN UNION TELEGRAM

W. P. MARSHALL, PRESIDENT

1201 (4-60)

SYMBOLS

DL=Day Letter

NL=Night Letter

LT=International Letter Telegram

The filing time shown in the date line on domestic telegrams is LOCAL TIME at point of origin. Time of receipt is LOCAL TIME at point of destination

LA146 SSE207

L RWA072 PD=ROSWELL NMEX 24 2145 MST
THE NMEX OIL CONSERVATION COMMISSION=
BOX 871 SANTA FE NMEX=

THE ATLANTIC REFINING COMPANY HAS A FIFTY PERCENT
INTEREST IN THE CITY SERVICE OPERATED HODGES B NUMBER
THREE WE RESPECTFULLY REQUEST THAT YOU APPROVE THEIR
APPLICATION FOR TRIPLECOMPLETION IN THE BLINEBRY
DRINKARD AND FUSSELMAN RESEVOIRS CASE NUMBER 2435=
W P TOMLINSON THE ATLANTIC REFINING CO.

THE COMPANY WILL APPRECIATE SUGGESTIONS FROM ITS PATRONS CONCERNING ITS SERVICE

DOCKET: EXAMINER HEARING - WEDNESDAY - NOVEMBER 29, 1961

9 A.M. - OIL CONSERVATION COMMISSION CONFERENCE ROOM
STATE LAND OFFICE BUILDING - SANTA FE, NEW MEXICO

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Elvis A. Utz, as alternate examiner:

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- CASE 2435: Application of Cities Service Oil Company for a triple completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks permission to complete its Hodges "B" Well No. 3, located in Unit L of Section 1, Township 25 South, Range 37 East, Lea County, New Mexico, as a triple completion (conventional) in undesignated Blinebry and Drinkard pools and in the Fusselman formation adjacent to the North Justis-Fusselman pool, with the production of oil from the Blinebry and Drinkard zones to be through parallel strings of 2 1/16-inch tubing and the production of oil from the Fusselman zone to be through a parallel string of 2 3/8-inch tubing.
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CASE 2421: (Cont.)
Application of Texaco Inc. for approval of a unit agreement and for a waterflood project, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Northeast Caprock (Queen) Unit Agreement, covering 1360 acres, more or less, in Township 12 South, Range 32 East, Caprock Queen Pool, Lea County, New Mexico. Applicant further seeks authority to institute a unit-wide waterflood by the injection of water into the Queen formation through 19 wells located within said unit.

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CASE 2440: Application of Socony Mobil Oil Company for permission to transfer allowables, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks permission to shut-in the Boulder-Apache Well No. 12-14, located in Section 14, Township 28 North, Range 1 West, Boulder-Mancos Oil Pool, Rio Arriba County, New Mexico, and transfer its allowable to the Boulder-Apache Well No. 23-14 located in said Section 14 for the purpose of conducting interference tests.

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CASE 2443: Application of Gulf Oil Corporation for an 80-acre non-standard gas proration unit, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the establishment of an 80-acre non-standard gas proration unit in the Eumont Gas Pool, comprising the E/2 NE/4 of Section 34, Township 19 South, Range 36 East, Lea County, New Mexico, said unit to be dedicated to the J. W. Smith Well No. 2, located 660 feet from the North and East lines of said Section 34.

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CASE 2445: Application of Southwest Production Company for an order extending the Flora Vista-Mesaverde Pool, San Juan County, New Mexico, and establishing special rules and regulations in said pool. Applicant, in the above-styled cause, seeks an order extending the Flora Vista-Mesaverde Pool to include Sections 22, 23, 26 and 27, all in Township 30 North, Range 12 West, San Juan County, New Mexico, and establishing special rules and regulations including a provision for 320-acre spacing units in said pool.

CASE 2446: Application of Southwest Production Company for an order pooling all mineral interests in the Basin-Dakota Gas Pool in the E/2 of Section 22, Township 30 North, Range 12 West, San Juan County, New Mexico. Interested parties include Roy Rector and O. G. Shelby, both of Flora Vista, New Mexico, and Myron T. Dale, address unknown.

CASE 2416: (Cont.)
Application of Southwest Production Company for an order pooling all mineral interests in an undesignated Mesaverde gas pool in the E/2 of Section 22, Township 30 North, Range 12 West, San Juan County, New Mexico.

CASE 2447: Application of Humble Oil & Refining Company for approval of a pressure maintenance project in the Cha Cha-Gallup Oil Pool, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks permission to institute a pressure maintenance project in the Cha Cha-Gallup Oil Pool by the injection of water into certain wells located on the Navajo Indian Reservation in Sections 13 through 29 and 33 through 36, Township 29 North, Range 14 West, San Juan County, New Mexico. Applicant further seeks the promulgation of special rules and regulations governing said project.

CASE 2448: Application of Pan American Petroleum Corporation for a pressure maintenance project, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks permission to institute a pressure maintenance project on its C. J. Holder,

-5-

Docket No. 32-61

State Holder Oil Unit, State "CA", State Oil Unit and Gallegos Canyon Unit Leases, San Juan County, New Mexico, in the Cha Cha-Gallup Oil Pool with water injection initially to be through five wells located in Sections 8 and 16, Township 28 North, Range 13 West, and Section 23, Township 28 North, Range 12 West, and requests adoption of special rules to govern the operation of said project.

CASE 3449:

Application of Pan American Petroleum Corporation for a pressure maintenance project, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks permission to institute a pressure maintenance project on its Navajo Tribal "H" and Gallegos Canyon Unit Leases, San Juan County, New Mexico, in the Totah-Gallup Oil Pool with water injection initially to be through five wells located in Section 35, Township 29 North, Range 13 West, Section 12, Township 28 North, Range 13 West, and Sections 13 and 24, Township 29 North, Range 14 West, and requests adoption of special rules to govern the operation of said project.

199/

CITIES SERVICE PETROLEUM COMPANY



FORMERLY NAMED

Case 2435

CITIES SERVICE OIL COMPANY

BOX 97

HOBBS, NEW MEXICO

November 7, 1961

New Mexico Oil Conservation Commission
P. O. Box 871
Santa Fe, New Mexico

Attention: Mr. A. L. Porter, Jr.

Gentlemen:

Cities Service Petroleum Company respectfully requests that the Oil Conservation Commission schedule a hearing at the earliest possible date to consider this application to complete the Hodges "B" #3, located 1880' FSL and 330' FWL, Unit L, Section 1, T-25S, R-37E, Lea County, New Mexico, as a triple completion in the Blinbry, Drinkard and Fusselman pools. Production of oil from these pools will be through two strings of 2 1/16" tubing and one string of 2 3/8" tubing.

A plat is attached showing the location of the Hodges "B" #3 together with the location of all offset wells. Also attached is a diagrammatic sketch of the proposed triple completion and New Mexico Oil Conservation Commission "Application for Dual Completion" form.

Very truly yours,

CITIES SERVICE PETROLEUM COMPANY

E. F. Motter
E. F. Motter
Asst. Division Engineer

EFM/sjb

Attachments

*Revised
Sketch
11/16/61*

NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

7-3-58

Triple

APPLICATION FOR ~~DUAL~~ COMPLETION *Case 2435*

Field Name North Justis		County Lea	Date 11-7-61
Operator Cities Service Petroleum Co.		Lease Hodges B	Well No. 3
Location of Well L	Section 1	Township 25-S	Range 37-E

1. Has the New Mexico Oil Conservation Commission heretofore authorized the ~~dual~~ completion of a well in these same pools or in the same zones within one mile of the subject well? YES ☐ NO ☒ **triple**
2. If answer is yes, identify one such instance: Order No. _____; Operator, Lease, and Well No.:

3. The following facts are submitted:	Upper Zone		Lower Zone
a. Name of reservoir	Blinebry	Drinkard	Fusselman
b. Top and Bottom of Pay Section (Perforations)	5300 5620	5690 6250	6950 7200
c. Type of production (Oil or Gas)	Oil	Oil	Oil
d. Method of Production (Flowing or Artificial Lift)	Flow	Flow	Flow

4. The following are attached. (Please mark YES or NO)

- ☒ a. Diagrammatic Sketch of the Dual Completion, showing all casing strings, including size and setting, top of cement, perforated intervals, tubing strings, including diameters and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent.
- ☒ b. Plat showing the location of all wells on applicant's lease, all offset wells on offset leases, and the names and addresses of operators of all leases offsetting applicant's lease.
- ☐ c. Waivers consenting to such dual completion from each offset operator, or in lieu thereof, evidence that said offset operators have been furnished copies of the application.*
- ☐ d. Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perforation indicated thereon. (If such log is not available at the time application is filed, it shall be submitted as provided by Rule 112-A.)

5. List all offset operators to the lease on which this well is located together with their correct mailing address.

J. C. Williamson, 606 V&J Tower Midland, Texas	Sinclair Oil & Gas Co., 520 E. Broadway Hobbs, New Mexico
Humble Oil & Refining Co., Box 2347 Hobbs, New Mexico	Western Natural Gas Co., Box 1060 Jal, New Mexico
Leonard Oil Co., Box 708 Roswell, New Mexico	Pan American Oil Co., Box 68 Hobbs, New Mexico
Claude Aikman, Box 2090 San Angelo, Texas	Texas Pacific Coal & Oil Co., Box 1688 Hobbs, New Mexico
Skelly Oil Co., Box 38 Hobbs, New Mexico	

6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES ☐ NO ☒. If answer is yes, give date of such notification _____.

CERTIFICATE: I, the undersigned, state that I am the Agent of the Cities Service Petroleum Co. (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

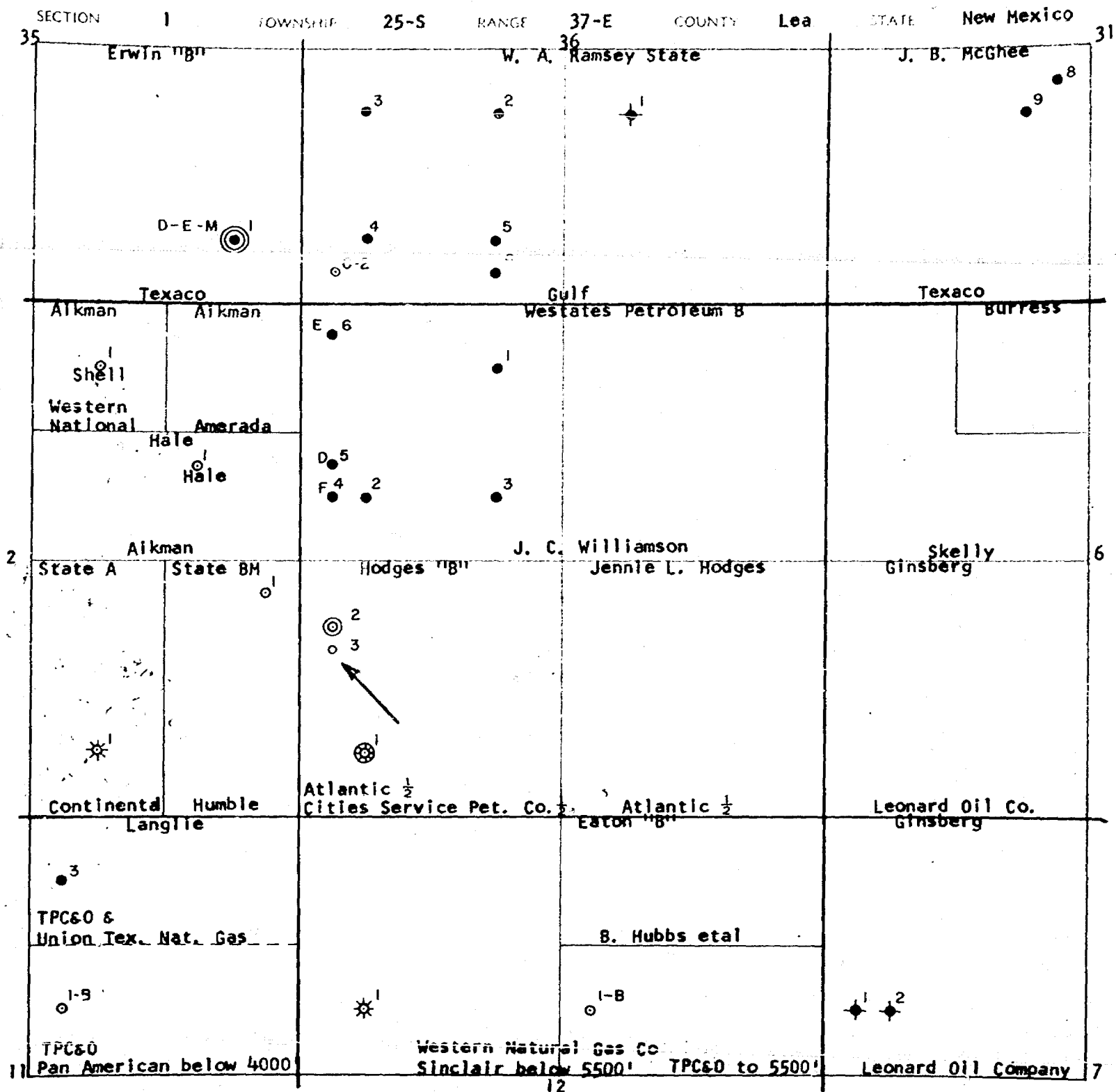
E J Motter
Signature

- * Should waivers from all offset operators not accompany an application for administrative approval, the New Mexico Oil Conservation Commission will hold the application for a period of twenty (20) days from date of receipt by the Commission's Santa Fe office. If, after said twenty-day period, no protest nor request for hearing is received by the Santa Fe office, the application will then be processed.
- NOTE: If the proposed dual completion will result in an unorthodox well location and/or a non-standard perforation unit in either or both of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

Kraft 915
SECTION, PLAT
Scale: 1 inch = 660 feet
Printed in U.S.A.

Case 2435

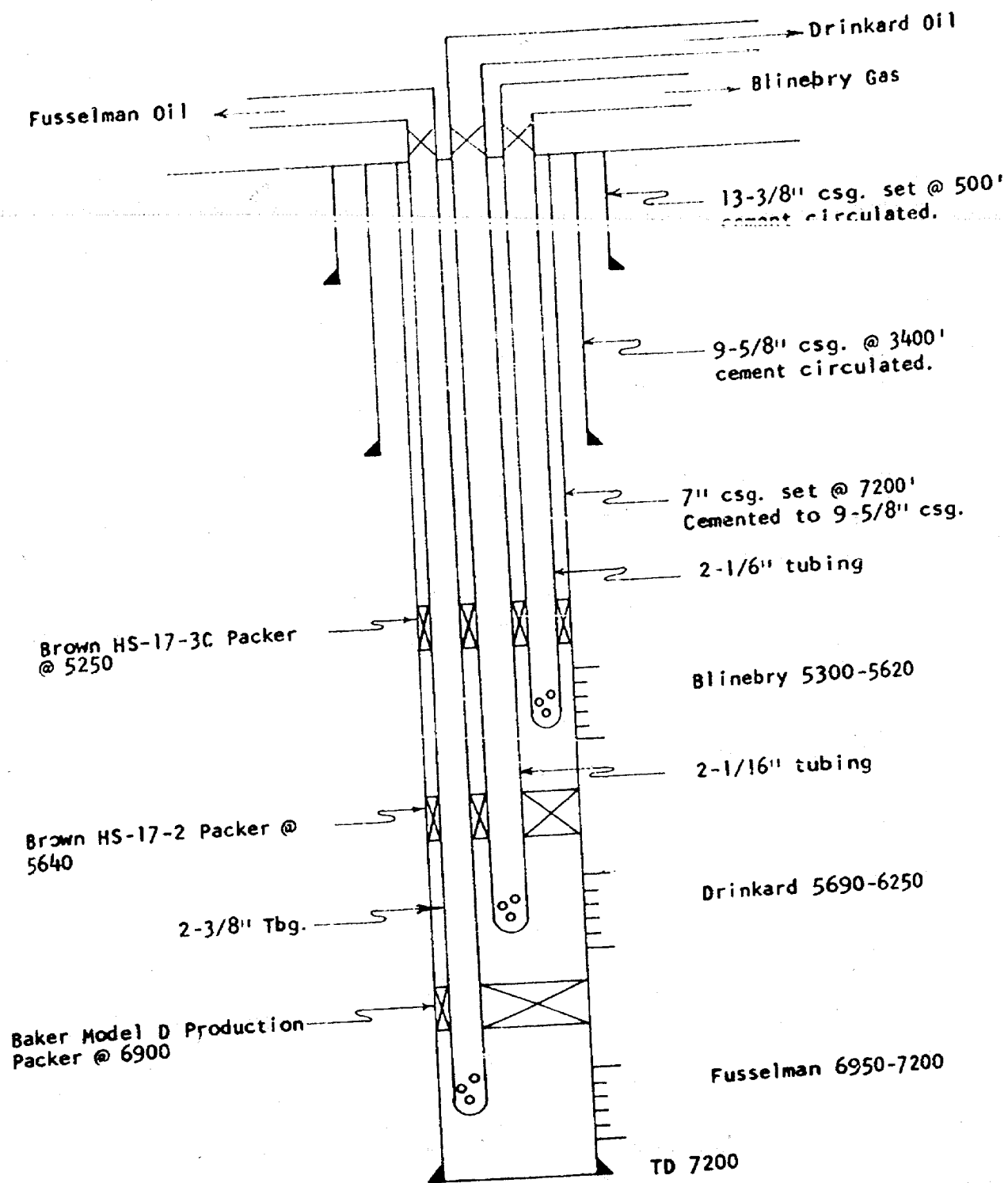
CITIES SERVICE PETROLEUM COMPANY



Case 2435

CITIES SERVICE PETROLEUM COMPANY
HONGES "B" #3

Proposed Triple Completion



Case 2435

OIL CONSERVATION COMMISSION

BOX 2045

HOBBS, NEW MEXICO

DATE Nov. 10, 1961

OIL CONSERVATION COMMISSION
BOX 371
SANTA FE, NEW MEXICO

Re: Proposed NSP

Proposed NSL

Proposed NFO

Proposed ~~XX~~ X
Triple

Gentlemen:

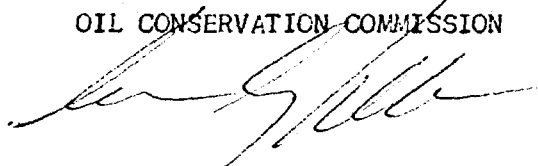
I have examined the application dated 11/8/61
for the Cities Service Pet. Co. Hodges "B" #3-L 1-25-37
Operator Lease and Well No. S-T-R

and my recommendations are as follows:

Recommend a Hearing----E.F.E.
Recommend that formation tops be included in Hearing (Perfs. 5960 to 6250
include Tubb & Drinkard) Blinebry O.K., Fusselman O.K.----J.W.R.

Yours very truly,

OIL CONSERVATION COMMISSION


E. F. E.

OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

Date 12/7/61

CASE 2435

Hearing Date 9am 11/29/61
DSN @ SF

My recommendations for an order in the above numbered cases are as follows:

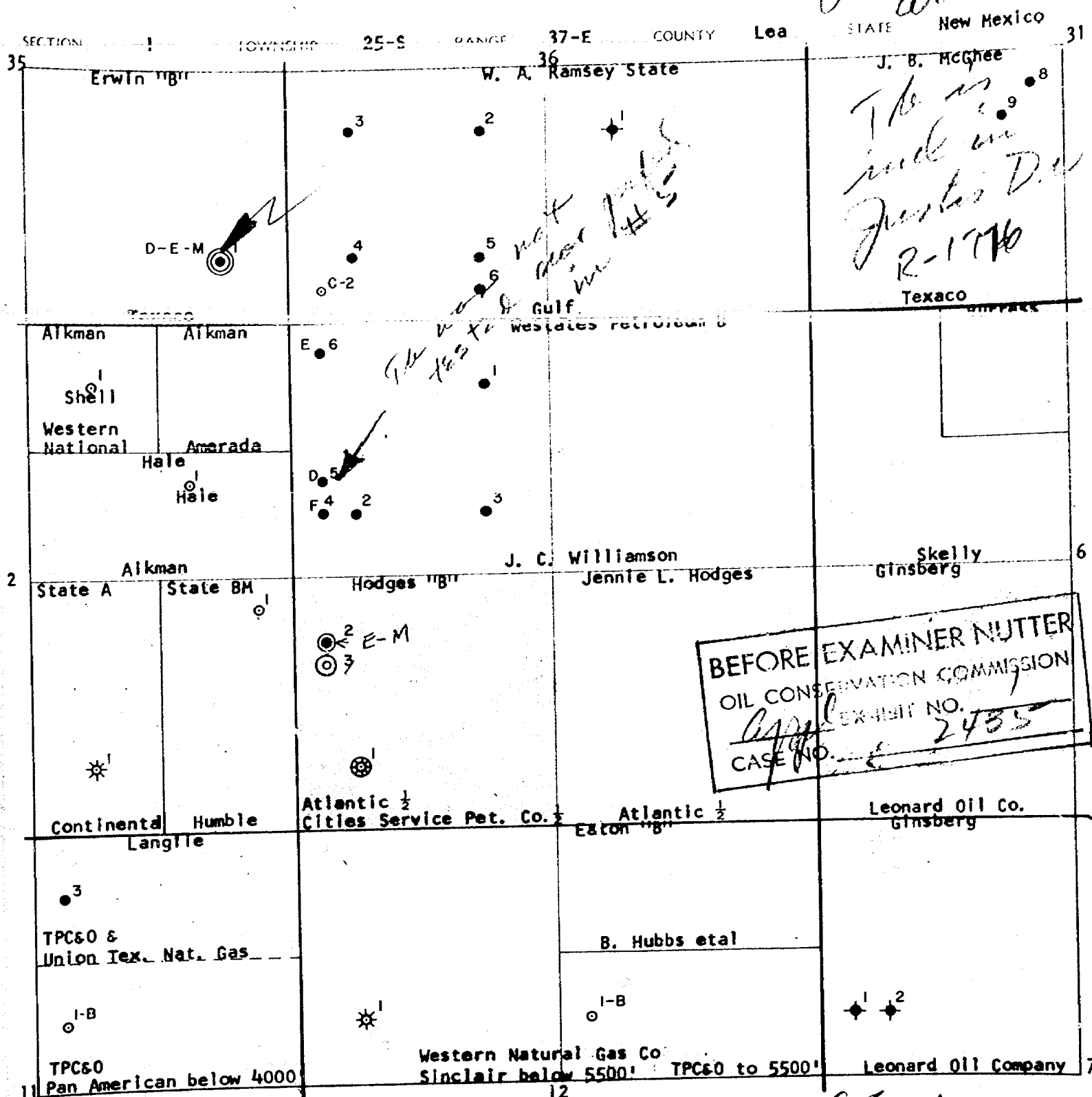
By order approving the
Triple Comp by Cities Serv. Co.
of its Hedges "B" Well not in such
a manner as to produce oil
from the Blinney formation through
2 1/2" tubing and oil from the
Drinkard + the Fuselman formations
through 2 parallel strings of 2 3/8"
tubing. (in the North Justice Field,
L2a Co.) Well is located in the
NW 1/4 SW 1/4 of Sec 1 Twp 25 S Rge 37 E. Sps 1/2
Packer leakage tests upon completion
and annals thereafter during the
Fuselman GOR test pt.

Stanley
Staff Engineer

NEEDWIN 915 ROSS MARSHALL CO
SECTION PLAT
Scale: 1 inch = 660 feet
Printed in U.S.A.

CITIES SERVICE PETROLEUM COMPANY

*1 1/2 mile
from Justice
Arden*



D - Drinkard
E - Ellenburger
F - Fusselman
M - McKee

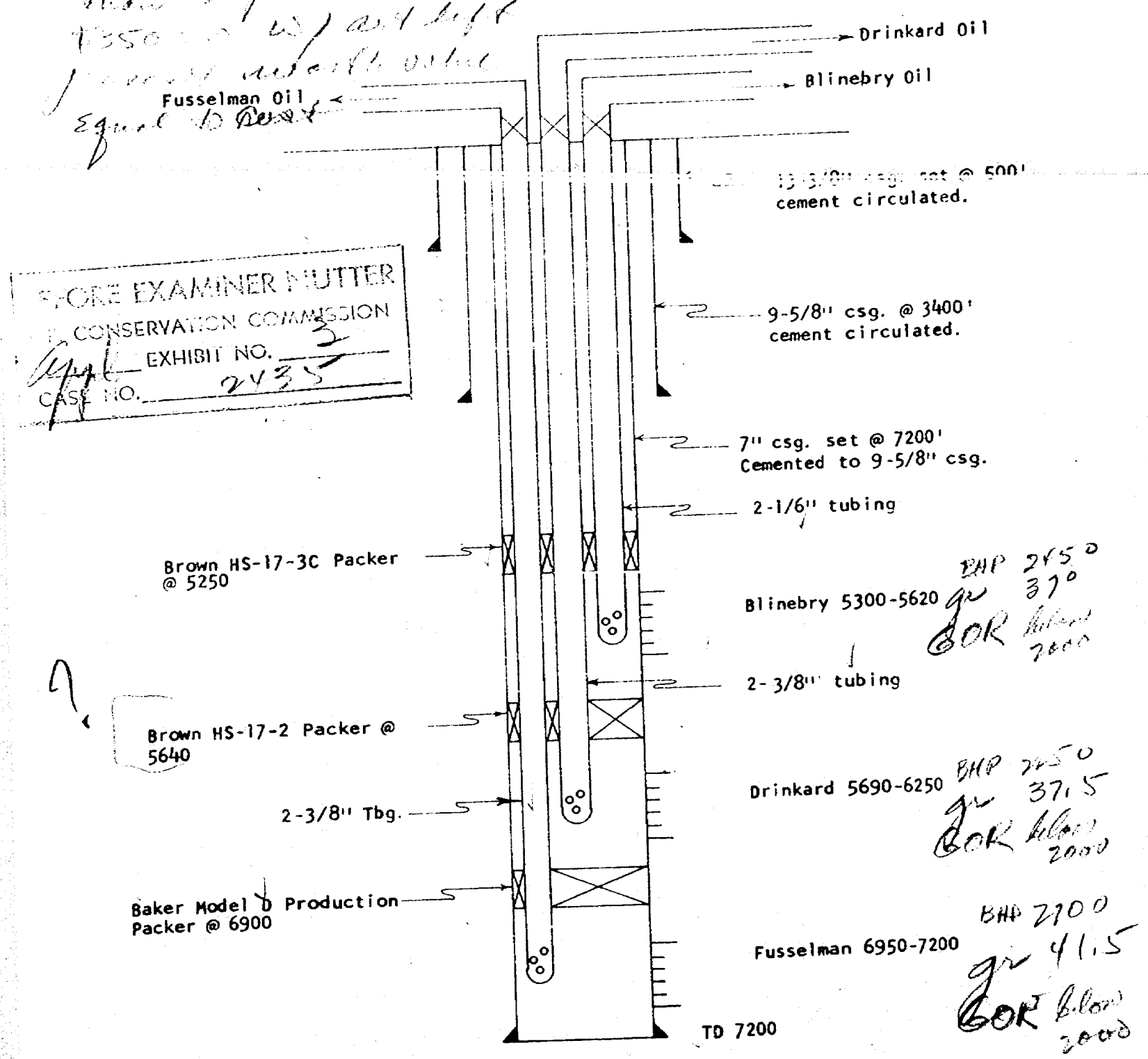
Plat Showing the Proposed
Completion, Hodges B #2 and off
set operators

*Appl. Ex 1
Case 2435*

3400 ST. ...
 from two ...
 ... would
 cost \$25,000 more
 than Taylor &
 \$3500 w/ art lift
 ...
 equal to ...

CITIES SERVICE PETROLEUM COMPANY
 HODGES "B" #3

Proposed Triple Completion



BEFORE THE
OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

November 29, 1961

EXAMINER HEARING

DEARNLEY-MEIER REPORTING SERVICE, Inc.
FARMINGTON, N. M.
PHONE 325-1182

ALBUQUERQUE, N. M.
PHONE 243-6691

IN THE MATTER OF:

Application of Cities Service Oil Company
for a triple completion, Lea County, New
Mexico. Applicant, in the above-styled
cause, seeks permission to complete its
Hodges "B" Well No. 3, located in Unit L
of Section 1, Township 25 South, Range 37
East, Lea County, New Mexico, as a triple
completion (conventional) in undesignated
Blinebry and Drinkard pools and in the
Fusselman formation adjacent to the North
Justis-Fusselman pool, with the production
of oil from the Blinebry and Drinkard zones
to be through parallel strings of 2 1/16-
inch tubing and the production of oil from
the Fusselman zone to be through a parallel
string of 2 3/8-inch tubing.

CASE NO.
2435

BEFORE: Daniel S. Nutter, Examiner

TRANSCRIPT OF HEARING

EXAMINER NUTTER: We will call Case No. 2435.

MR. WHITFIELD: Application of Cities Service Oil Com-
pany for a triple completion, Lea County, New Mexico.

MR. KELLAHIN: Jason Kellahin, Kellahin & Fox, represent-
ing the Applicant. We have one witness.

(Witness sworn.)

E. F. MOTTER.



DEARNLEY-MEIER REPORTING SERVICE, Inc.

FAIRINGTON, N. M.
PHONE 325-1182

ALBUQUERQUE, N. M.
PHONE 243-6691

called as a witness, having been first duly sworn on oath, was examined and testified as follows:

DIRECT EXAMINATION

BY MR. KELLAHIN:

Q State your name, please.

A E. F. Motter.

Q By whom are you employed and in what position?

A Cities Service Petroleum Company, ASSISTANT CIVIL engineer.

Q Have you previously testified before this Oil Conservation Commission of New Mexico and made your qualifications a matter of record?

A Yes.

MR. KELLAHIN: Are the witness's qualifications acceptable?

MR. NUTTER: Yes, sir; please proceed.

Q (by Mr. Kellahin) Are you familiar with the application of Cities Service Petroleum Corporation in Case No. 2435?

A Yes, I am.

Q Would you state briefly what is proposed by Cities Service?

A We propose to triply complete our Hodges "B" Well No. 3 in the Blinebry-Drinkard Pools and in the Fusselman Formation in the North Justis-Fusselman Pool, Lea County, New Mexico.

Q Now, you have a plat showing the area involved?



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A Yes.

(Applicant's Exhibit No. 1
marked.)

A This plat has the Cities Service Hodges "B" lease outlined in yellow and the significant Well No. 3 has a red circle around it, which is located 1880 feet from the south line, 330 feet from the west line of Section 1, Township 25 South, Range 37 East. This plat also shows numerous other completions in the North Justis Pool designated by the code down on the bottom. We have recently completed the Hodges B-2 which was dualled in the Ellenberger-McKee Formation.

Q Is any of this area included within the boundaries of the established pool?

A No, not to my knowledge.

(Applicant's Exhibit No. 2
marked.)

Q (by Mr. Kellahin) Referring to what has been marked Exhibit No. 2, would you identify that exhibit and discuss the information shown thereon?

A Yes. We ought to make the radioactive log Exhibit No. 2 since that comes first. On the Hodges B-2 which is being drilled 100 feet north of the Hodges B-3, I feel there will be very little difference on the log. On the other Hodges B-3, that is currently being drilled below about 3500 feet. We will call that Exhibit No. 3. All the tops are marked and also our



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PHONE 243-6691

proposed perforations are marked on that log.

Q What formation top do you show on the log?

A Starting from the top down, we have a Blinbry at 5051; a Tubb at 5677; the Drinkard at 5950; and the Fusselman at 6918.

Q Does the log likewise show your proposed perforations?

A Yes.

Q Does it show production on the Drinkard zone?

A Yes, sir, it does.

Q It also shows perforations in what you have identified as the Tubb on the exhibit?

A Yes, that is correct. We have proposed some perforation at 5696 through 5702 and 5709 through 20. I have cross hatched those perforations in red. We would propose to open these up with the Drinkard formation as has been done in the Justis Pool proper.

Q That has been done in the Justis, is that correct?

A Yes, it has.

Q That is the pool immediately adjacent to this area, is that right?

A To the south. We feel that this is a salvage zone. We would like to get what all we can out of it by co-mingling it with the Drinkard since the gravities are very similar and the pressures are similar.

Q Do you have a diagrammatic sketch of the proposed dual completion?



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PHONE 243-6691

A Yes, sir, I do. That is Exhibit No. 3.

Q A triple completion.

A Yes. I might run through our procedure that we will follow to triple complete this well. We will perforate with seven-inch casing and cement it up to the 9 5/8 at approximately 3400 feet. We will perforate the Fusselman and test and set a

bridge plug above the Fusselman. We will perforate the Tubb-

Drinkard and test and set a bridge plug above the Tubb-Drinkard and test the Blinbry, retrieve the bridge plug and set a Baker Model D production packer at approximately 6900 feet above the Fusselman. We will then run the number one string to the three-eighths inch tubing with a Brown oil tool HS-17-2C dual packer and a Brown oil tool HS-17-3C triple packer plus the tubing necessary to run between the setting point of the No. 2C packer for the No. 2 string. These will all be run simultaneously. We will then run the second string and latch into the top packer, pressure up and set the top packer. Then, the third string will be run. We will swab the zone in and run our potential and packer leakage tests.

Q Now, is this a type of triple completion which has been approved by the Commission in other instances?

A Yes, it is.

Q In your opinion, is it adequate to protect the producing zones, any water zones that may be encountered in this well?

A Yes, that's right.



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Q Is it in the interest of conservation to approve this type of completion, in your opinion?

A I would think so. It could certainly save money over drilling three single wells.

Q Have you any information on the bottomhole pressure you might expect in this particular well?

A We have the results of drill stem tests on the Hodges B-2 and the bottomhole pressure information from wells in the area, and all these are pressures to be expected. I feel they are accurate within probably about 2450 for the Blinebry, the Drinkard 2250, and the Fusselman 2700.

Q What gravity would you expect in the fluid?

A In the Blinebry, 37 degrees, the Drinkard, $37\frac{1}{2}$, and the Fusselman $41\frac{1}{2}$.

Q Do you have any information on the gas-oil ratios you might encounter?

A Yes. None of these are penalized to my knowledge. None of them have been penalized. All are below the 2,000-to-one ratio.

Q You mentioned earlier in your testimony that the Tubb zone you proposed to open is a salvage operation. Have you made any investigation as to the economics of producing that particular zone?

A Yes. I have run some recovery figures out from interpretation of the electric log. I might add that we propose to



run a drillstem test on this well and perhaps core it. From data obtained from the electric log, it appears we might expect in the neighborhood of 30,000 top stock tank barrels from these two zones. Probably the most economical method to obtain this oil would be completed separately, would be a quadruple completion, which we would as soon stay away from. If we had to go into that, it would be less expensive, rather than drilling a dual or single completion. I have estimated that in cost it would be slightly over \$25,000 to provide facilities to singly complete in the Tubb and in case an artificial lift were needed, it would probably run around \$31,000 to \$35,000. By applying a present worth to these 34,000 barrels, we'd just about be swapping dollars.

Q In your opinion, would that be justified from an economic point of view?

A No, not in my opinion.

Q If you were unable to produce it, would that constitute waste?

A Yes, I think it would. I don't feel we would want to do anything with this particular zone at this time in view of the fact that a triple completion would involve quite an amount of work to remove all the tubing string.

Q Were Exhibits 1, 2, and 3 prepared by you or under your supervision?

A Yes, they were.



MR. KELLAHIN: We offer Exhibits 1 through 3

EXAMINER NUTTER: Citles Service Exhibits 1, 2, and 3 will be entered into evidence.

MR. KELLAHIN: That's all.

EXAMINER NUTTER: Are there any questions of Mr. Motter?

CROSS EXAMINATION

BY EXAMINER NUTTER:

Q Are there any Drinkard wells in this immediate area?

A Yes, sir. The J. C. Williamson, probably two locations north of there. No. 5 is a well that you recently issued your order for a Drinkard-Blinbry completion. I think it was issued the early part of this week.

Q Do you know if the zones in the Tubb were encountered in that well or not? Did you examine the log?

A Yes, we examined the log and made cross sections.

Q They did not perforate in those zones?

A No. While they were drilling, we picked up samples which showed some oil and porosity but no water saturation in the particular zone.

Q And that's the only well in the vicinity which might have produced from that zone?

A The Texaco Erwin No. 1 on the further north and west is also completed, but again, I do not believe it's completed in the Tubb. In fact, I know it's not completed in the Tubb.

Q It is completed in the Drinkard zone?

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PH: NE 325-1182

ALBUQUERQUE, N. M.
PHONE 243-6691



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FARMINGTON, N. M.
PHONE 325-1162

ALBUQUERQUE, N. M.
PHONE 243-6691

A Right.

Q Now, approximately how far is this area from the Justis area?

A Well, it's about a mile and a half down to the very northern Justis wells.

Q Is the Tubb included in the Drinkard pay in the Justis field?

A That's correct. I think I have the order number here. That was Order Number R-1776 extending the vertical limits upward to include the Tubb pay.

Q As I understand it from your Exhibit No. 3, Mr. Motter, you are going to set the seven-inch to 7200 feet and then circulate?

A That's right. Of course, you know the Justis which produces out of the Glorietta needs to be protected in this area.

Q Will you describe the HS-17-2 packer to me, please?

A I have a diagram if you'd like to see it.

Q It is a retrievable packer?

A Yes.

Q With a setting mechanism?

A That's right, a clutch mechanism. After turning to the right it releases and releases pressure which then allows you to pull the packer.

Q Picking up on the tubing does not release the packer?

A No, you have to turn it to the right.



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ALBUQUERQUE, N. M.
PHONE 243-6091

Q Would you enter that as an exhibit?

A I would prefer not to. These are the only copies the Brown people have. However, if you would like --

Q We want some sort of a diagram of the packer submitted. You can do that after you get back home.

A I understand there are some cases right now, perhaps patent infringements. They are rather reluctant to let these out. I had to promise my life away to get these up here.

Q Has it ever been tried out?

A There may be some -- you may also have some of these prints on file.

MR. NUTTER: Are there any further questions of Mr. Motter?

REDIRECT EXAMINATION

BY MR. KELLAHIN:

Q Mr. Motter, in the advertising of this case, you advertised that you would produce the Drinkard through parallel strings of 2 1/16-inch tubing and produce from the Fusselman zone through a parallel string of 2 3/8-inch tubing.

A Yes.

Q Did you cover that in your direct testimony?

A No. We would prefer to run two strings of 2 3/8 to the Fusselman and Drinkard. We have plenty of clearance to run those and we would prefer the larger tubing diameter.

MR. KELLAHIN: That's all.



EXAMINER NUTTER: Do you have anything further?

MR. KELLAHIN: That's all.

EXAMINER NUTTER: Are there any further questions of Mr. Motter?

He may be excused.

(Witness excused.)

MR. KELLAHIN: ... all we have.

MR. MORRIS: I have a telegram from the Atlantic Refining Company which states that it is a 50 percent owner in the subject well and urges approval of the subject application.

EXAMINER NUTTER: We will take the case under advisement.

* * * *

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PHONE 243-6691

STATE OF NEW MEXICO)
COUNTY OF SAN JUAN) ss.

I, THOMAS F. HORNE, NOTARY PUBLIC in and for the County of San Juan, State of New Mexico, do hereby certify that the foregoing and attached statement of hearing was reported by me in stenotype and that the same was reduced to typewritten transcripts under my personal supervision and contains a true and correct record of said proceedings, to the best of my knowledge, skill and ability.

Thomas F. Horne
NOTARY PUBLIC

My Commission Expires:
October 2, 1965

I do hereby certify that the foregoing is a complete record of the proceedings in the Examination hearing of case No. 2435 heard by me on 01/29, 1961.
[Signature] Examiner
New Mexico Oil Conservation Commission

