

**CASE 2564: Application of TIDEWATER
for a triple completion of its
A.B. Coates "C" Well No. 18.**

432170.

2564

lication, Transcript,
all Exhibits, Etc.

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. 2564
Order No. R-2249

APPLICATION OF TIDEWATER OIL
COMPANY FOR APPROVAL OF 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 May 23, 1962, at Santa Fe, New Mexico, before Elvis A. Utz, 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 4th day of June, 1962, the Commission, a quorum being present, having considered the application, the evidence adduced, and the recommendations of the Examiner, Elvis A. Utz, 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, Tidewater Oil Company, seeks approval of the triple completion (conventional) of its A. B. Coates "C" Well No. 18, located in Unit I, Section 24, Township 25 South, Range 37 East, NMPM, Lea County, New Mexico, in such a manner as to produce oil from the Justis-Blinebry, Justis Tubb-Drinkard and Justis-Ellenburger Pools through parallel strings of 2 3/8-inch tubing.

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

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

IT IS THEREFORE ORDERED:

(1) That Tidewater Oil Company is hereby authorized to complete its A. B. Coates "C" Well No. 18, located in Unit I,

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CASE No. 2564
Order No. R-2249

Section 24, Township 25 South, Range 37 East, NEEN, Lea County, New Mexico, as a triple completion (conventional) in such a manner as to produce oil from the Justis-Blinchry, Justis Tubbs-Drinkard and Justis-Elzenburger Pools through parallel strings of 2 3/8-inch tubing.

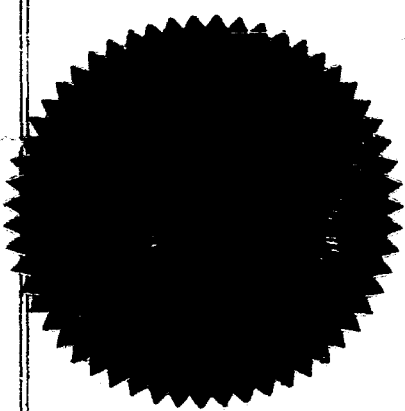
PROVIDED HOWEVER, That the applicant shall complete, operate, and produce said well in accordance with the provisions of Rule 112-A of the Commission Rules and Regulations.

PROVIDED FURTHER, That packer-leakage tests shall be taken upon completion and annually thereafter during the Gas-Oil Ratio Test Period for the Elzenburger formation.

(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



E. L. Mechem

EDWIN L. MECHEM, Chairman

E. S. Walker

E. S. WALKER, Member

A. L. Porter, Jr.

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

esr/

GOVERNOR
EDWIN L. MECHEM
CHAIRMAN

State of New Mexico
Oil Conservation Commission

LAND COMMISSIONER
E. S. JOHNNY WALKER
MEMBER



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

P. O. BOX 871
SANTA FE

June 4, 1962

Mr. William R. Federici
Beth, Montgomery, Federici & Andrews
Attorneys at Law
Box 828
Santa Fe, New Mexico

Re: Case No. 2564
Order No. R-2249
Applicant:

TIDENATER 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 handwritten signature in cursive script that reads "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

Case 2564

Heard 5-23-62

Rec. 5-23-62

1. Grant Tidewater request for
Zipt completion (conventional)
in the Jester, Blinby, Dub.
Drinker & Ellentzen. for their
A. B. Coates "C" #18, 1 24-25-27
then Parallel string tubing.
2. Use usual M.C. order & require
wellheads to be marked as to
producing string.

Thur. R.

No. 16-62

DOCKET: EXAMINER HEARING - WEDNESDAY - MAY 23, 1962

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

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

CASE 2537: (Reopened)

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. 8 located in Unit E of Section 1, Township 25 South, Range 37 East, Lea County, New Mexico, as a dual completion (conventional) in the North Justis-McKee Pool and an undesignated Montoya pool with the production of oil from both zones to be through parallel strings of tubing.

CASE 2564:

Application of Tidewater Oil Company for a triple completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the triple completion (conventional) of its A. B. Coates "C" Well No. 18, located in Unit I, Section 24, Township 25 South, Range 37 East, Lea County, New Mexico, in such a manner as to produce oil from the Justis-Blinbry, Justis Tubb-Drinkard and Justis Ellenburger Pools through parallel strings of 2 3/8-inch tubing.

CASE 2565:

Application of J. Glenn Turner for a dual completion and an unorthodox location, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks an order authorizing the dual completion (conventional) of his Nye Well No. 9-1 at an unorthodox location 1810 feet from the North line and 900 feet from the West line of Section 9, Township 29 North, Range 10 West, San Juan County, New Mexico, in such a manner as to produce gas from the Blanco Mesaverde Gas Pool and the Basin Dakota Gas pool through parallel strings of 1 1/2-inch and 2 1/16-inch tubing.

CASE 2566:

Application of Newmont Oil Company for an amendment to Orders No. R-1110, R-1110-A and R-111-B, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order amending Orders No. R-1110, R-1110-A and R-1110-B to define the proper limits of its Square Lake Pool Waterflood Project, Eddy County, New Mexico, to establish rules for expansion of the flood within the defined area, and to provide for capacity allowables for said area.

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Docket No. 16-62

CASE 2567:

Application of Redfern & Herd, Inc., for a force-pooling order, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks an order force-pooling all mineral interests in the Basin-Dakota Gas Pool underlying the S/2 Section 11, Township 29 North, Range 13 West, San Juan County, New Mexico, to be dedicated to a well to be drilled in the SE/4 SE/4 of said Section 11.

CASE 2568:

Application of Redfern & Herd, Inc., for a force-pooling order, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks an order force-pooling all mineral interests in the Basin-Dakota Gas Pool underlying the E/2 Section 15, Township 29 North, Range 13 West, San Juan County, New Mexico, to be dedicated to a well to be drilled in the SE/4 NE/4 of said Section 15.

CASE 2569:

Application of Texaco Inc., for a quintuple completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order approving the quintuple completion (tubingless) of its G. L. Erwin "B" NCT-2 Well No. 3, located in Unit I, Section 35, Township 24 South, Range 37 East, Lea County, New Mexico, in such a manner as to produce oil from the Waddell, McKee, Fusselman, Devonian, and Drinkard zones, North Justis Field, through parallel strings of 2 7/8 and 2 3/8 inch casing cemented in a common well bore.

iqg/

16-62

**SUPPLEMENTAL DOCKET: EXAMINER HEARING - WEDNESDAY MAY 23, 1962
9 A.M. CONFERENCE ROOM, STATE LAND OFFICE BUILDING, SANTA FE, N. M.**

The following case will be heard before Elvis A. Utz, Examiner, or Daniel S. Nutter Alternate Examiner.

CASE 2570:

Application of Cities Service Petroleum Corporation for a dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks permission to complete its State "AD" Well No. 2, located 3300 feet from the North line and 660 feet from the East line of Section 22, Township 10 South, Range 32 East, Lea County, New Mexico, as an oil-oil dual completion in the San Andres and Pennsylvanian formations in the Mescalero field with the production of oil to be through strings of 2-inch and 1½ or 1¼-inch tubing utilizing a crossover assembly.



TIDEWATER OIL COMPANY

1962 APR 23 AM 6 32

Box 547
Hobbs, New Mexico
April 27, 1962

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

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

Re: Application for Triple Completion, A. B. Coates "C" Well No. 18
1980' NSL and 990' WEL, Unit L, Section 24, Twn. 25S, Range 37E,
Lea County, New Mexico.

Gentlemen:

Tidewater Oil Company respectfully requests that the Oil Conservation Commission schedule a hearing at the earliest possible date to consider this application. Coates "C" No. 18 is dual completed in the Justis Blinbry and Justis Ellenburger Fields under provisions of OCC Order No. DC-725. Tidewater proposes to triple complete Well No. 18 in the Justis Tubb-Drinkard Field. Production of oil from these pools will be through three strings of 2-3/8" tubing.

A plat is attached showing the location of A. B. Coates "C" No. 18, together with the location of all offset wells. Also attached is a diagrammatic sketch of the proposed triple completion and the New Mexico Oil Conservation Commission "Application for Multiple Completion" form.

Very truly yours,

TIDEWATER OIL COMPANY

C. L. Wade
C. L. Wade,
Area Superintendent

ARS:bw

Attachments

*Rec'd
5/10/62
[Signature]*

NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

APPLICATION FOR MULTIPLE COMPLETION

 MAIN OFFICE
 1962 APR 20
 1-61
 32

Operator Tidewater Oil Company		County Lea	Date April 27, 1962
Address Box 547, Hobbs, N. Mex.		Lease A. B. Coates "C"	Well No. 18
Location of Well L	Unit 24	Township 25S	Range 37E

1. Has the New Mexico Oil Conservation Commission heretofore authorized the multiple completion of a well in these same pools or in the same zones within one mile of the subject well? YES _____ NO X
2. If answer is yes, identify one such instance: Order No. _____; Operator, Lease, and Well No.:
Well present dual completed in Justis Blinebry & Justis Ellenburger Field under New Mexico Oil Conservation Comm. Order No. DC-725. Request to triple complete in Justis Tubb-Drinkard Field.

3. The following facts are submitted:	Upper Zone	Intermediate Zone	Lower Zone
a. Name of Pool and Formation	Justis Blinebry	Justis Tubb-Drinkard	Justis Ellenburger
b. Top and Bottom of Pay Section (Perforations)	5040 - 5655 (5274 to 5354)	5658 - 5932 (5668 to 5890)	7678 - 7800 T.D. (7758 to 7800) O.H.
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)

- X a. Diagrammatic Sketch of the Multiple Completion, showing all casing strings, including diameters and setting depths, centralizers and/or turbolizers and location thereof, quantities used and 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 multiple completion from each offset operator, or in lieu thereof, evidence that said offset operators have been furnished copies of the application.*
- X 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.

Gulf Oil Corp., Box 2167, Hobbs, N. Mex.
Western Natural Gas Co., Box 1060, Jal, N. Mex.
Amerada Petr. Co., Drawer D, Monument, N. Mex.
Atlantic Refining Co., Box 1978, Roswell, N. Mex.
Texaco, Inc., Box 728, Hobbs, N. Mex.
W. K. Byrom, 517 N. Turner, Hobbs, N. Mex.
Skelly Oil Company, Box 38, Hobbs, N. Mex.
Union Texas Natural Gas Corp., Wilco Bldg., Midland, Tex.

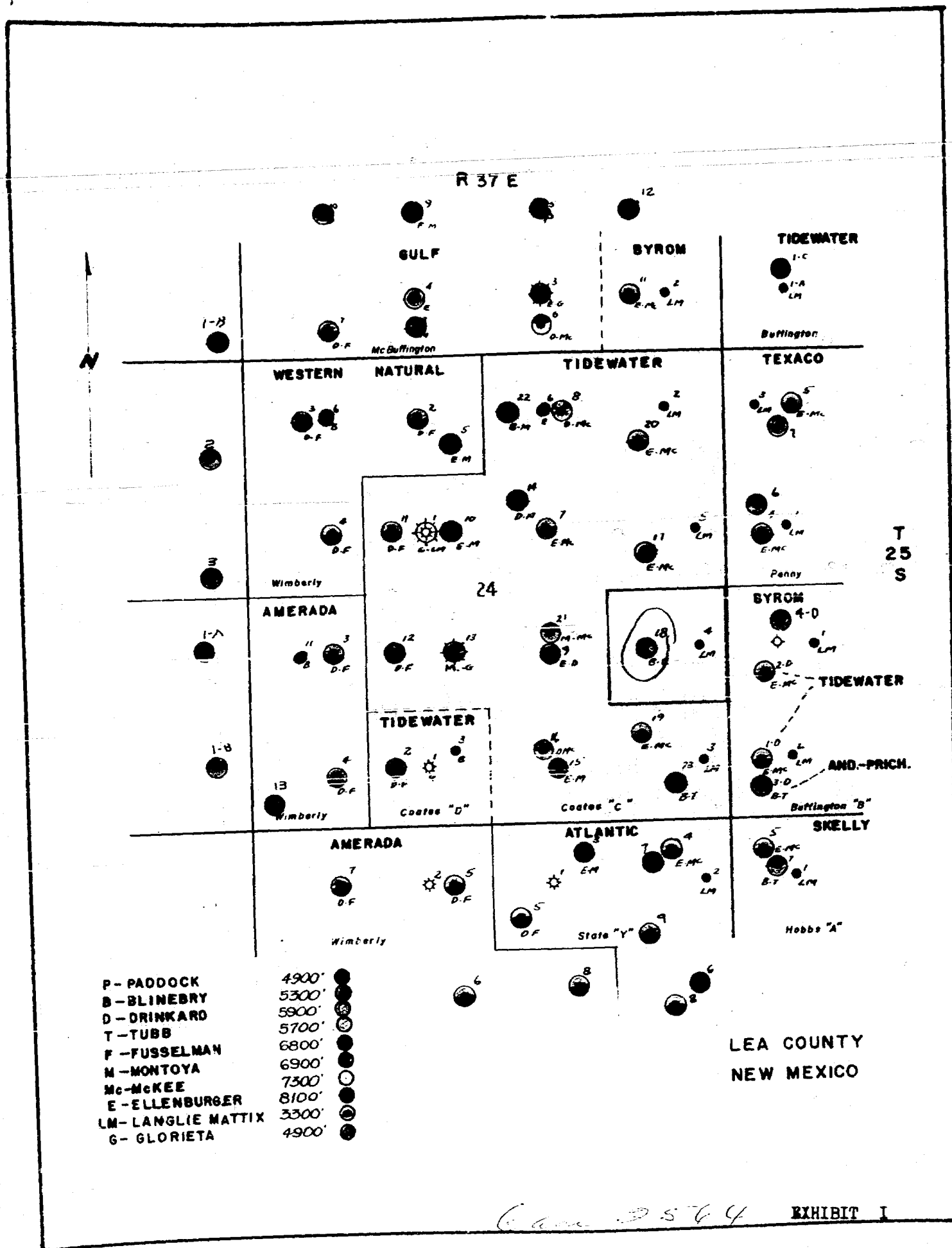
6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES X NO _____. If answer is yes, give date of such notification **April 27, 1962**

CERTIFICATE: I, the undersigned, state that I am the Agent of the Tidewater Oil (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.

C. L. Wade
C. L. Wade Signature **Area Supt.**

- * 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 multiple 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.

C. L. Wade



DIAGRAMMATIC SKETCH OF TRIPLE COMPLETION

#1 STRING - JUSTIS ELLENBURGER

#2 STRING - JUSTIS TUBB-DRINKARD

#3 STRING - JUSTIS BLINEBRY

TUBING

- #1 String - 2 3/8" EUE 8rd. thd.
- #2 String - 2 3/8" Buttress thd.
- #3 String - 2 3/8" Buttress thd.

Top of pay section - 5040'

JUSTIS - BLINEBRY

Type production - Oil

Method of production - Flow

Bottom of pay section - 5655'

PROPOSED TRIPLE ZONE

Top of pay section - 5658'

JUSTIS - TUBB-DRINKARD

Type production - Oil

Method of production -

Bottom of pay section - 5932'

Top of pay section - 7678'

JUSTIS - ELLENBURGER

Type production - Oil

Method of production - Flow

Total depth of hole - 7800'

13 3/8" Csg. set at 540'
cemented to surface

9 5/8" Csg. set at 3327'
cemented to surface

3690 T.C.
1500' less
Load.

3680
1322
35'3" open

Top of perforations - 5274'

Baker model "NC" production packer
set at 5200'

Bottom of perforations - 5354'

Top of perforations - 5668'

Baker model "FA" production packer
set at 5600'

Bottom of perforations - 5890'

7" Csg. set at 7758'
cemented back to 3680'

Top of open hole - 7758'

Baker model "D" production packer
set at 7510'

Tubing set at 7760'

Total depth of production - 7800'

Company: TIDEWATER OIL

Field: JUSTIS BLINEBRY

JUSTIS TUBB-DRINKARD

JUSTIS ELLENBURGER

Location: 1980' FSL and 990' FEL Section 24, Township 25S, Range 35E, N.M.P.M.

Dual Completion Permit: Order No. DC-725

Lease: A.B. COATES "C"

(Present Completion)

(Proposed Completion)

(Present Completion)

Well No: 18

County: LEA

Handwritten signature

CASE 2564

BEFORE THE
OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
May 23, 1962

EXAMINER HEARING

IN THE MATTER OF:

Application of Tidewater Oil Company for a triple completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the triple completion (conventional) of its A. B. Coates "C" Well No. 18, located in Unit I, Section 24, Township 25 South, Range 37 East, Lea County, New Mexico, in such a manner as to produce oil from the Justis-Blinbry, Justis Tubb-Drinkard and Justis Ellenburger Pools through parallel strings of 2 3/8-inch tubing.

CASE 2564

BEFORE: Elvis A. Utz, Examiner

TRANSCRIPT OF PROCEEDINGS

MR. UTZ: Case 2564.

MR. MORRIS: Application of Tidewater Oil Company for a triple completion, Lea County, New Mexico.

MR. FEDERICI: Mr. Examiner, William Federici of Seth, Montgomery, Federici and Andrews, for Tidewater. I have one witness, Mr. Allan R. Smith, Junior.

(Witness sworn.)

MR. UTZ: Are there any other appearances in Case 2564?
You may proceed.

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PHONE 243-6691



ALLAN R. SMITH, JUNIOR

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

DIRECT EXAMINATION

BY MR. FEDERICI:

Q Would you state your name, please?

A Allan R. Smith, Junior.

Q Will you tell the Examiner by whom you are employed, the location and your present position?

A I'm employed by Tidewater Oil Company in Hobbs, New Mexico, as Area Engineer.

Q Have you previously testified before the New Mexico Oil Conservation Commission?

A No, I have not.

Q Would you discuss briefly your formal education and past experience?

A Graduated from Texas College of Arts and Industries with a B.S. Degree in Natural Gas and Petroleum Engineering in May, 1955. Since graduation I have worked for Tidewater Oil Company as Petroleum Engineer in Kilgore and Conwell, Texas. I have served as Area Engineer since 1957 and served in the capacity of Area Engineer in Hobbs since September, 1961. I designed and completed Tidewater's first triple completion, and I believe this was the second or third triple completion in the State of Texas. Since that time I have had experience in running initially or on workovers

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at least twelve triple completions.

MR. FEDERICI: Are the witness' qualifications acceptable?

MR. UTZ: Yes, sir.

Q (By Mr. Federici) In your present position, are you familiar with the property which is the subject of this application?

A Yes, sir.

Q Are you familiar with the application filed in this case?

A Yes.

Q And this area which is the subject of this application, is it under your supervision?

A Yes, sir.

MR. FEDERICI: Mr. Examiner, we have some exhibits here.

(Whereupon, Applicant's Exhibit No. 1 marked for identification.)

Q (By Mr. Federici) Do you have what is marked as Exhibit No. 1?

A Yes, sir.

Q Will you explain what that exhibit shows?

A Exhibit 1 was prepared to show the location and completion zones of wells in the immediate area of A. B. Coates "C" No. 18. The A. B. Coates "C" No. 18 is located in Unit I, Section 24, Township 25 South, Range 37 East, Lea County, New Mexico. The 40-acre proration unit shown on the map in red is offset by completions in the Justis Tubb-Drinkard Field on adjacent proration

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units to the northeast, the east, southeast, the south, the southwest, the west, and the northwest. The proration unit due north belongs to Tidewater and does not have a Justis Tubb-Drinkard completion at this time.

(Whereupon, Applicant's Exhibit No. 2 marked for identification.)

Q I hand you what has been marked as Exhibit No. 2 and ask if you will explain that to the Examiner.

A Exhibit No. 2 was prepared to show the triple completions in the immediate area of Well No. 18. Four triples in the Justis and North Justis Field have been shown on the map in red. The property under consideration was painted green. Four triples that are shown on this map are completed in various zones. As can be seen from the exhibit, one well has been completed in the three zones requested in this cause. Altogether there has been a combination of two of these requested zones in several wells, or combination; therefore, there has not been all three of them in any one.

MR. UTZ: There are what, seven or eight zones in this area?

A Yes, sir.

Q (By Mr. Federici) Do you have anything further with reference to Exhibit No. 2?

A No, sir.

(Whereupon, Applicant's Exhibit No. 3 marked for identification.)

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Q I hand you what is marked as Exhibit No. 3 and ask you to explain that to the Examiner, if you will, please.

A Exhibit No. 3 is an induction electric log on A. B. Coates "C" No. 18. On this well log, we've submitted it to show the tops of the producing zones and the present and proposed completion intervals in this well. The present completion in the Justis-Blinebry Field, the top of the sand is at 5,040 feet; the well is skip perforated from 5274 to 5354. Initial potential on 12-23-58, the well flowed 100 barrels of oil in 22 hours through a 15/64-inch well choke with a gas-oil ratio of 1,615 to 1. The 1961 bottom hole pressure on this zone was 1527 pounds. The API oil gravity is 37.7. The well is presently flowing its allowable of 31 barrels of oil per day. The zone is penalized due to high gas-oil ratio.

The proposed completion in the Justis Tubb-Drinkard Field, the top of the pay section is at 5,658 feet. The proposed perforations will be skip perforated from 5,668 feet to 5,890 feet. The average bottom hole pressure of wells in that locality for 1961 was 1782 pounds; average oil gravity of 35 degrees API.

The lower completion, the present completion in the Justus Ellenburger Field, the top of the sand is at 7,678 feet. The well is producing from 42 foot of open hole from 7758 to 7800 feet, which is total depth. 1961 bottom hole pressure was 2583.

MR. UTZ: Just a minute until I find the Ellenburger. What did you say the depth was?

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A It is the very bottom zone. The top of that sand was at 7,678 feet.

MR. UTZ: Okay. You may proceed.

A 1961 bottom hole pressure on this well was 2563 pounds. Average oil gravity, 44.3. This well is flowing at top allowable of 108 barrels of oil per day, zero barrels of water per day, and a gas-oil ratio of 1,045 to 1.

Q (By Mr. Federici) Do you have anything further to state with reference to this particular exhibit?

A No, sir.

(Whereupon, Applicant's Exhibit No. 4 marked for identification.)

Q I hand you what has been marked Exhibit No. 4 and ask you to explain that exhibit to the Examiner, if you will, please.

A Exhibit 4 is a diagrammatic sketch of the proposed triple completion. All completion equipment and packers will be purchased from Baker Oil Tool. The bottom packer will be the existing Model D Retainer Production Packer, which is set at 7,510 feet. Ten Model E tubing seals will be used to insure correct spacing of the tubing. The middle packer will be a Model FA Retainer Production Packer set at approximately 5600 feet. A Model F Flow Tube will be run on the tubing to seal off in this packer. The top packer will be a Model N Triple Packer, which will be retrievable, set at approximately 5200 feet.

The Number 1 string of tubing in this completion will

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be 2 3/8ths EUE-8 round tubing with 2.91 collars. The Number 2 and Number 3 strings will be 2-3/8ths inch, buttress tubing with 2.7 inch collars.

Q Is the above equipment in your opinion satisfactory for completely isolating and segregating these zones?

A To the best of my knowledge and experience, the down hole equipment recommended for this completion is the best available on the market today. The packers should withstand differential pressures to above the maximum internal burst as the pressures of the tubing strings. In this installation, the differentials across the Model D Packer will be approximately 800 pounds under actual conditions, and the differential across the Model FA Packer will be approximately 250 pounds.

Q How will this triple completion be checked for segregation?

A We will check this for segregation by any means prescribed by the Commission. We would like to suggest conducting a conventional packer leakage test with a 3-point pressure recorder.

Q What action has been considered to protect correlative rights?

A Tidewater has an estimated 55,000 barrels of net oil that can be recovered from the proposed completion in the Justis Tubb-Drinkard Field. A new well, to recover these reserves, would cost approximately \$81,000.00. This would amount to a development cost of \$1.47 per barrel. The proposed remedial work to triple

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complete would cost 62 cents per barrel. It would be unattractive to drill a new well to recover the Justis Tubb-Drinkard reserves. Therefore, without permission to triple complete, Tidewater could not protect its correlative rights and natural resources would be wasted.

Q Then in your opinion, you believe that waste would occur if this application were not approved?

A Yes, sir.

Q Have all offset operators been notified and furnished a copy of this application?

A Yes, sir. They were mailed copies of the application on April 27, 1962.

Q Do you know of any objections that have been filed?

A No, sir.

Q Now, Mr. Smith, is the production on a Federal lease?

A Yes, sir, it's a Federal lease.

Q Have you obtained approval from the U.S.G.S.?

A Yes, sir, we have obtained approval from the U.S.G.S. the first part of May, 1960.

(Whereupon, Applicant's Exhibit No. 5 marked for identification.)

Q I hand you what has been marked Exhibit No. 5 and ask you to state if that shows the approval of the U.S.G.S.?

A Yes, sir. It shows their stamped approval and signature on it.

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Q In your opinion, will this type of completion give complete separation of the producing formations?

A Yes, sir, it will.

Q Is this type of installation adequate to protect different zones where only one zone is being produced at a time?

A Yes, sir, it will.

Q In your opinion, is this type of completion more feasible and economical than drilling new wells?

A Yes, sir, for this amount of reserves.

Q Would this type of completion be in the interest of conservation?

A Yes, sir. Additional reserves can be recovered that wouldn't be economically attractive otherwise.

Q Were Exhibits Nos. 1 through 5 prepared by you or under your supervision?

A Yes, sir, they were.

MR. FEDERICI: If the Examiner please, we offer Exhibits 1 through 5.

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

MR. FEDERICI: I believe that's all.

CROSS EXAMINATION

BY MR. UTZ:

Q Mr. Smith, did you have a GOR for the Tubb zone?

A The Tubb-Drinkard zone is the proposed zone we would



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A. BUQUERO, N. M.
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like to complete in.

Q But you have no idea about the GOR's?

A Offsetting wells are approximately at 2,000 to 1 ratio.

Q Your 9-5/8 cement is circulated, right?

A Yes, sir.

Q And the 7-inch comes back to 3680?

A Yes, sir.

Q Which would leave 353 feet of open hole behind the casing between the bottom of the 9-5/8 and the top of the cement on the 7?

A Yes, sir.

Q How about the zones in that area; are there any fresh water zones or any oil producing zones?

A No, sir, not to my knowledge.

Q I believe you gave the pressure differential for the two lower packers and the pressure differential on your NC packer or upper packer would be what, about 1500 pounds?

A Yes, sir. That would be, actually the casing annulus will be loaded with a fluid and therefore you will probably not have any differential problems.

Q It will decrease the pressure?

A Yes, sir.

Q On the NC packer, what type of locking mechanism is used there? Is it tension pressure or self-setting?

A On this particular packer, it is identical to the Model



L Packer, which is hook and ball style packer with hydraulic hoe-down slips. The difference between the N and the L packer which is being used is that the alteration of the tubing strings can be released in the top of the packer.

Q And the FA is the same nature?

A The FA is a retainer production packer which will be wireline set and an F type flow tube will be used to seal off in this packer.

MR. UTZ: Are there any other questions of the witness?

MR. MORRIS: No questions.

MR. UTZ: The witness may be excused.

(Witness excused.)

MR. UTZ: Are there any statements in this case? The case will be taken under advisement.

* * * * *

DEARNLEY-MEIER REPORTING SERVICE, Inc.

FARMINGTON, N. M.
PHONE 325-1182

ALBUQUERQUE, N. M.
PHONE 243-6691



STATE OF NEW MEXICO)
) ss
 COUNTY OF BERNALILLO)

I, ADA DEARNLEY, Notary Public in and for the County of Bernalillo, State of New Mexico, do hereby certify that the foregoing and attached Transcript of Proceedings was reported by me in stenotype and that the same was reduced to typewritten transcript under my personal supervision, and contains a true and correct record of said proceedings, to the best of my knowledge, skill and ability.

DATED this 9th day of June, 1962, in the City of Albuquerque, County of Bernalillo, State of New Mexico.

Ada Dearnley
 NOTARY PUBLIC

My Commission Expires:

June 19, 1963.

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 2564, heard by me on *May 23*, 1962.

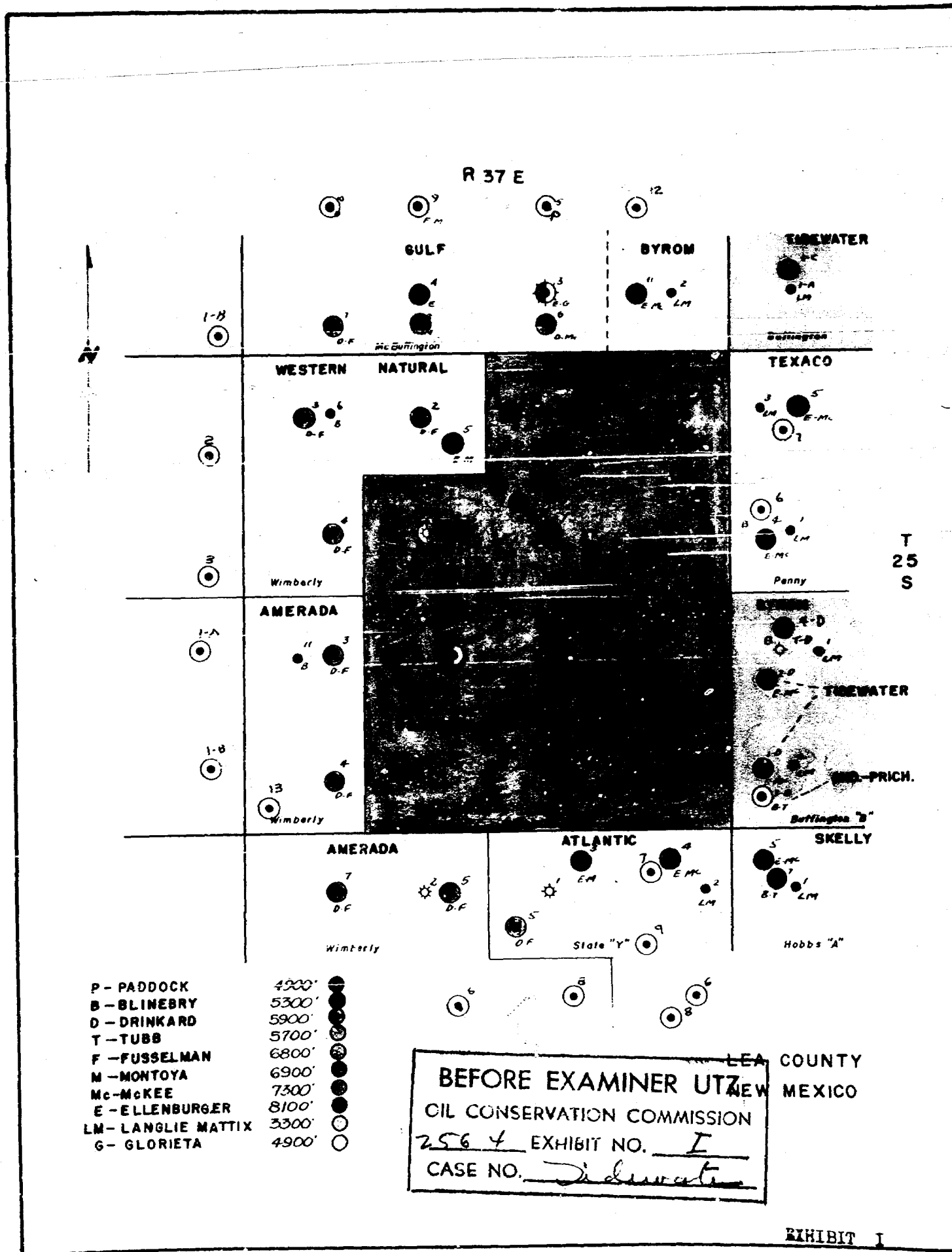
Shirley L. Hall, Examiner
 New Mexico Oil Conservation Commission

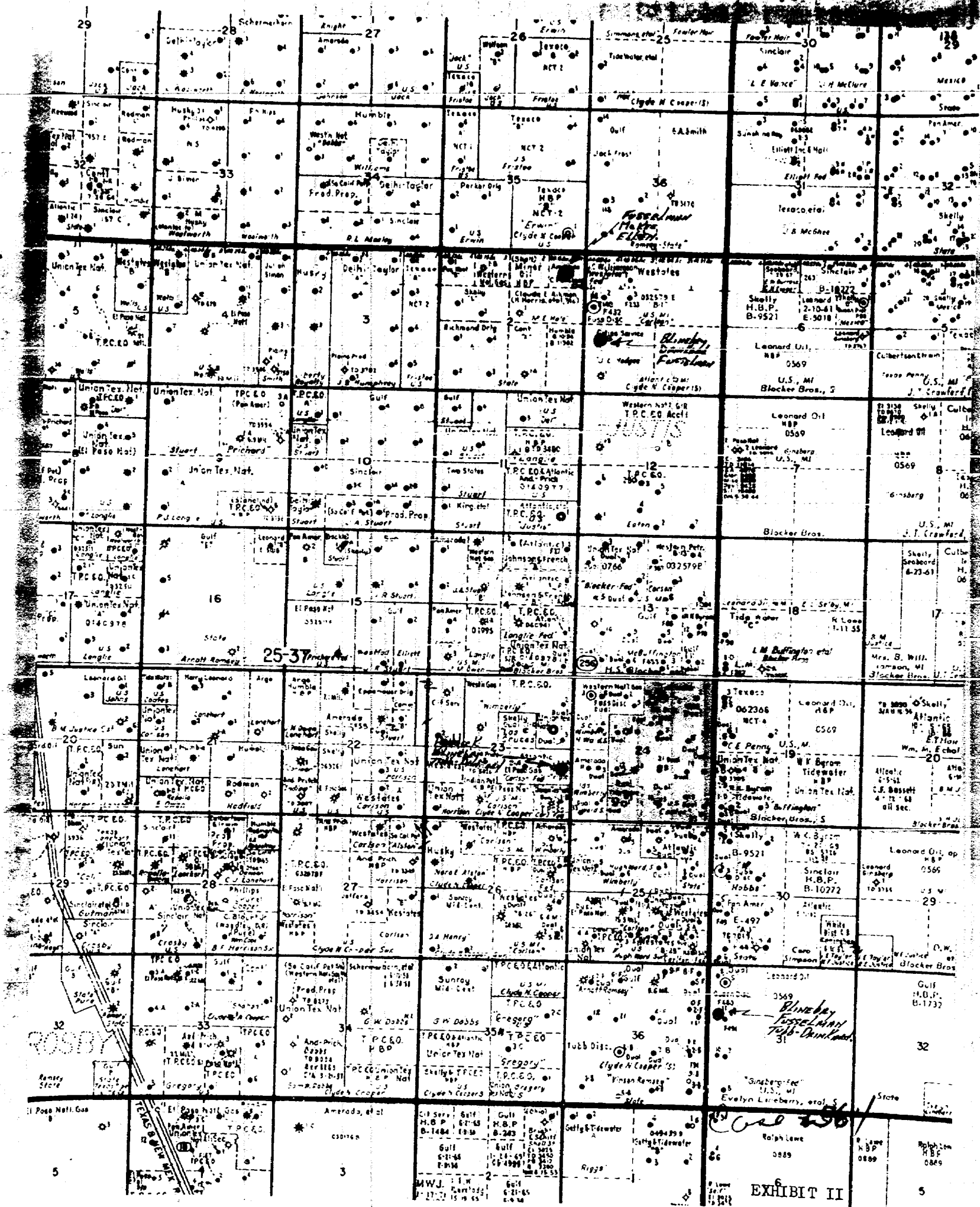
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DIAGRAMMATIC SKETCH OF TRIPLE COMPLETION

#1 STRING - JUSTIS ELLENBURGER

#2 STRING - JUSTIS TUBB-DRINKARD

#3 STRING - JUSTIS BLINEBRY

TUBING

- #1 String - 2 3/8" EUE 8rd. thd. ✓
- #2 String - 2 3/8" Buttress thd. ✓
- #3 String - 2 3/8" Buttress thd. ✓

13 3/8" Csg. set at 540' cemented to surface

9 5/8" Csg. set at 3327' cemented to surface

Top of pay section - 5040'

JUSTIS BLINEBRY ✓
Type production - Oil
Method of production - Flow

Bottom of pay section - 5655'

Top of perforations - 5274'

Baker model "NC" production packer set at 5200'

Bottom of perforations - 5354'

PROPOSED TRIPLE ZONE

Top of pay section - 5658'

JUSTIS TUBB-DRINKARD ✓
Type production - Oil
Method of production -

Bottom of pay section - 5932'

Top of perforations - 5668'

Baker model "FA" production packer set at 5600'

Bottom of perforations - 5890'

7" Csg. set at 7758' cemented back to 3680'

Top of open hole - 7758'

Baker model "D" production packer set at 7510'

Tubing set at 7780'

Top of pay section - 7678'

JUSTIS ELLENBURGER ✓
Type production - Oil
Method of production - Flow

Total depth of hole - 7800'

Total depth of production - 7800'

Company: TIDEWATER OIL

Field: JUSTIS BLINEBRY

JUSTIS TUBB-DRINKARD

JUSTIS ELLENBURGER

Location: 1980' FSL and 990' FEL

Dual Completion Permit: Order No. DC-725

Lease: A.B. COATES "C"

(Present Completion)

(Proposed Completion)

(Present Completion)

Well No: 1B

County: LEA

Section 24, Township 25S, Range 35E N.M.P.M.

BEFORE EXAMINER UTZ

OIL CONSERVATION COMMISSION

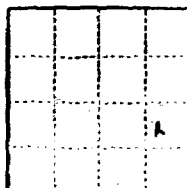
EXHIBIT NO. 4

CASE NO. 2564

EXHIBIT IV

APPROVED

Form 9-551a



MAY 1952

J. L. GORDON

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Budget Bureau No. 42-2284
Approval expires 12-31-52

Land Office
033480 (b)
Lease No.
Unit A. B. Carter "C" Lee.

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING
NOTICE OF INTENTION TO RE DRILL OR REPAIR WELL	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY
NOTICE OF INTENTION TO ABANDON WELL	
Notice of Intention to Triple Complete	

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

April 27

1952

Well No. 18 is located 1980 ft. from [S] line and 990 ft. from [E] line of sec. 24
NE/4, SE/4, Sec. 24 25S 33E N35W
(Twp.) (Range) (Meridian)
Justin Brinkley
Justin Allenburger
(Field)
Lee
(County or Subdivision)
New Mexico
(State or Territory)

The elevation of the derrick floor above sea level is 3077 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate clogging jobs, cementing points, and all other important proposed work)

Kill Blinbury and Allenburger completions and pull tubing.
Perforate Tubb-Brinkhard zone from 3668 to 3890'. Acidize with
750 gal. mud acid and 4000 gal. reg. acid. Test completion.
Complete with three 2-3/8" OD tubing strings and three Baker
packers as per attached print.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Tidewater Oil Company

Address Box 547

Box 5, N. Mex.

By

Title

Area Supt.

Appendix II