

Case Number.

4193

---

Application

Transcripts.

Small Exhibits

ETC.

dearnley-meier reporting service, inc.

SPECIALIZING IN: DEPOSITIONS, HEARINGS, STATEMENTS, EXPERT TESTIMONY, DAILY COPY, CONVENTIONS

1120 SIMMS BLDG. • P. O. BOX 1092 • PHONE 243-6691 • ALBUQUERQUE, NEW MEXICO



BEFORE THE  
NEW MEXICO OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico  
August 27, 1969

IN THE MATTER OF:

Application of Humble Oil & Refining )  
Company for a dual completion, Lea )  
County, New Mexico. )

Case No. 4193

BEFORE: ELVIS A. UTZ  
Examiner

TRANSCRIPT OF HEARING

MR. UTZ: The hearing will come to order. Call Case No. 4193.

MR. HATCH: Application of Humble Oil & Refining Company for a dual completion, Lea County, New Mexico.

MR. EATON: Paul W. Eaton, Junior, of the law firm of Hinkle, Bondurant and Christy, Roswell, New Mexico, representing the applicant. We have one witness.

MR. UTZ: Are there any other appearances?

(Witness sworn.)

(Whereupon, Applicant's Exhibits Nos. 1, 2 and 3 marked for identification.)

\* \* \* \* \*

LEE N. PERRY, JR., a witness, called by the Applicant, having been first duly sworn, was examined and testified as follows:

DIRECT EXAMINATION

BY MR. EATON:

Q Would you please state your name and residence?

A I am Lee N. Perry, Junior, Hobbs, New Mexico.

Q What is your occupation and your employer?

A I'm District Supervising Production Engineer for Humble in the Hobbs District.

Q What is your professional background or experience?

A I have B. S. Degrees in Civil and Petroleum Engineering from Texas Tech. I am a Registered Professional Engineer in New Mexico and Texas.

Q Are you familiar with the application in this case and with the property involved?

A I am.

Q Have you previously testified before the New Mexico Oil Conservation Commission in that professional capacity?

A Yes, I have.

Q Were your qualifications acceptable at that time?

A They were.

MR. EATON: Is the witness satisfactory?

MR. UTZ: Yes, he is.

Q (By Mr. Eaton) Would you please state what Humble is seeking by its application?

A We are seeking permission to make a conventional dual completion in the Grayburg-San Andres and Blinberry Pools in our Federal Bowers "A" Com 33.

Q This property is located generally where?

A It is approximately three miles west of Hobbs; the leases involved are the Bowers "A" and "B" Federal leases in the southeast quarter of Section 30 and the west quarter of Section 29, Township 18 South, Range 38 East, Lea County,

New Mexico.

Q Mr. Perry, have all offset operators been notified of this application?

A Yes, they were notified on August the 4th, by registered mail.

Q Please refer to what has been marked as Exhibit 1, and state what that exhibit represents.

A This plat is a land map of a portion of the Hobbs Pool. Humble's acreage is shown in yellow here, and as I stated before, the Bowers "A" Federal and Bowers "B" Federal Leases are those in Sections 29 and 30.

The Grayburg-San Andres was the original discovery in this area, some years ago, and these wells are shown as the small blue dots. Recently, late last year, the Blinebry was discovered and there are 16 Blinebry completions shown here, circled. More recently, Amerada discovered the Drinkard. There are five Drinkard-Blinebry duals shown here by squares. The Bowers "A" Federal Com 33 is indicated by the red arrow.

Q And that is the well which you would like to dually complete?

A It is.

Q Would you please refer to what has been marked as

Exhibit 2 and state what that exhibit represents?

A This is an open hole log of the subject well. If you will refer to it, you can see that the top of the San Andres is at 4108, the bottom of the San Andres and the top of the Glorieta at 5440. We are proposing to perforate the San Andres from 4261 to 4270. The top of the Blinebry is at 5823, and extends below T. D. in this well, which is 6,000 feet. The perforations that we propose in the Blinebry are from 5915 to 19 and from 5929 to 33.

Q Next, Mr. Perry, would you please refer to what has been marked as Exhibit 3 and state what that exhibit shows?

A This exhibit is a schematic of the mechanical equipment in this well. We have, as we show here, set 7 inch casing to T. D. and cemented it back to 2900, back into the intermediate. We set intermediate casing at 3850. This is 9 and 5/8ths casing, cemented back to 2555, this is into the salt section. The surface casing is 13 and 3/8ths set at 416 feet below all fresh waters and cemented to surface. The mechanical equipment which we propose to use in this dual completion is shown here. The perforations that I mentioned on the log are also shown.

Our proposal is to complete the Blinsbry first,

get it to producing satisfactorily. This is under way. We then plan to come back up and perforate the San Andres and before we stimulate the San Andres, and the San Andres normally requires stimulation, we will set this Model D Packer at 5800 feet. And the packer at that time will have a pushout plug in it. We will then stimulate the San Andres and get it completed satisfactorily, run the long string of tubing -- now, this is 2 and 3/8ths E. U. E. tubing with A. I. D. of 1.995. We will run the long string and latch it into the anchor type seal assembly. At the same time, we'll push out the plug in the packer. The Baker dual string anchor will be run as an integral part of the long string, and set at 4250.

Then the short string of tubing which is also 2 and 3/8ths E. U. E, can be latched into this dual string anchor. In this way, we can produce the well, and by the way, both sides probably will require pumping. We can produce it efficiently and we can also segregate the zones completely.

Q Are you satisfied that the packer is such that it will effectively prevent communication between the two producing zones?

A Yes, I am. We feel like this is the best packer that we can put in here for this purpose.

Q I note on your Exhibit 1 the existence of a Blinebry-Brinkard dual completed well just south of the Well 33?

A That is right. We completed this well, as a matter of fact, it has been producing now from both zones for approximately two weeks. We did get approval and it is completed in this same manner with one exception. It has five and a half inch casing in it. The request for dual completion here was approved administratively because of Amerada's case which had preceded it.

Q Except for the smaller casing in that well, do you propose to use the same type of completion?

A The same identical hookup.

Q The same identical hookup as the Commission had previously administratively approved?

A Yes.

Q Your Exhibit 1 reflects the San Andres Well as 1 "B" in the northwest quarter northwest quarter of Section 29. Is that producing at this time?

A Yes, it is producing. This well, Bowers "B" Federal 1 is now an incapable well with an allowable of approximately 19 barrels a day and it is making approximately that. It is surrounded by top allowable San Andres wells.



This well was damaged around 15 years ago, prior to the time that we knew as much about the San Andres production as we now know. A number of experimental plastic plugs were placed in this well and we have never been able to remove the damage. We plan to replace this well. The Bowers "B" Federal 1 with the San Andres Completion in the Bowers "A" Federal Com 33. I might point out here, by the way, as you can see on this plat in the 40-acre proration unit involved here, there is this Bowers "B" Federal Lease, 20 acres here of the 40-acre proration unit in both the Blinebry and San Andres which has some separate royalty in it. This has been communitized by the U. S. G. S. and this is our proposal, to replace the Bowers "B" Federal 1 with the San Andres completion and the Bowers "A" Federal Com 33.

Q If you had to replace that well with a separate San Andres well, what would be the approximate cost of drilling the San Andres well?

A Approximately sixty thousand dollars.

Q In your opinion, can the oil from both the San Andres and the Blinebry Zones be efficiently produced through the parallel strings of tubing?

A Yes.

Q In your opinion, will the dual completion tend

to prevent waste and protect correlative rights?

A Yes, it would.

Q Were these exhibits either prepared by you or under your supervision?

A They were.

MR. EATON: We offer Exhibits 1, 2 and 3 into evidence.

MR. UTZ: Without objection, Exhibits 1, 2 and 3 will be entered into the record of this case.

(Whereupon, Exhibits 1, 2 and 3 offered and admitted into evidence.)

MR. EATON: We have no further questions.

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

CROSS EXAMINATION

BY MR. UTZ:

Q Mr. Perry, the only reason that you had to come in for a hearing is because this is the first dual completion in the San Andres-Blaine, right?

A Yes, sir.

MR. UTZ: Any other questions? The witness may be excused.

(Witness excused.)

MR. UTZ: Statements? The case will be taken under advisement.

I N D E X

WITNESS		PAGE
<u>LEE N. PERRY</u>		
Direct Examination by Mr. Eaton		2
Cross Examination by Mr. Utz		9
<u>EXHIBITS</u>	<u>MARKED</u>	<u>OFFERED AND ADMITTED</u>
Applicant's 1, 2 and 3	2	9

STATE OF NEW MEXICO )  
 ) ss  
 COUNTY OF BERNALILLO )

I, ADA DEARNLEY, Court 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 to the best of my knowledge, skill and ability.

Witness my hand this 17th day of September, 1969.

*Ada Dearnley*  
 Ada Dearnley

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 4193 heard by me on Sept. 27, 1969.  
*[Signature]*  
 New Mexico Oil Conservation Commission

JAN 8 1970

# HUMBLE OIL & REFINING COMPANY

MIDLAND, TEXAS 79701

PRODUCTION DEPARTMENT  
SOUTHWESTERN DIVISION

January 6, 1970

POST OFFICE BOX 1600

22-2

Bowers "A" Federal  
Well No. 33 Order R-3831

New Mexico Oil Conservation Commission  
Box 2088  
Santa Fe, New Mexico 87501

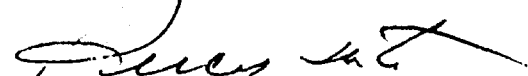
Attention: Mr. A. L. Porter, Jr.

Gentlemen:

Administrative Order R-3831 approved dual completion of Humble's Bowers "A" Federal Well No. 33, located in Unit D of Section 29, Township 18 South, Range 38 East, NMPM, Lea County, New Mexico to produce oil from the Hobbs-Blinbry Pool and the Hobbs-Drinkard Pool.

The purpose of this letter is to advise you that completion attempts on this well were not successful. The well is or has been plugged and Order No. R-3831 should be canceled.

Yours very truly,

  
Percy Tate  
OIL & GAS ACCOUNTING

PQT:ms



## OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO

P. O. BOX 2088 - SANTA FE

87501

GOVERNOR  
DAVID F. CARGO  
CHAIRMAN

LAND COMMISSIONER  
ALEX J. ARMIJO  
MEMBER

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

September 8, 1969

Mr. Paul Eaton  
Hinkle, Bondurant & Christy  
Attorneys at Law  
Post Office Box 10  
Roswell, New Mexico 88201

Re: Case No. 4193  
Order No. R-3831  
Applicant:  
Humble Oil & Refining Co.

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.  
Secretary-Director

ALP/ir

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. 4193  
Order No. R-3831

APPLICATION OF HUMBLE OIL & REFINING  
COMPANY FOR A DUAL COMPLETION, LEA  
COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on August 27, 1969,  
at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 8th day of September, 1969, 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, Humble Oil & Refining Company, seeks  
authority to complete its Bowers "A" Federal Com Well No. 33,  
located in Unit D of Section 29, Township 18 South, Range 38 East,  
NMPM, Lea County, New Mexico, as a dual completion (conventional)  
to produce oil from the Hobbs (Grayburg-San Andres) Pool and the  
Hobbs-Blinbry Pool through parallel strings of 2 3/8-inch tubing,  
with separation of the zones by a packer set at approximately  
5800 feet.

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

(4) That approval of the subject application will prevent  
waste and protect correlative rights.

-2-

CASE No. 4193  
Order No. R-3831

IT IS THEREFORE ORDERED:

(1) That the applicant, Humble Oil & Refining Company, is hereby authorized to complete its Bowers "A" Federal Com Well No. 33, located in Unit D of Section 29, Township 18 South, Range 38 East, NMPM, Lea County, New Mexico, as a dual completion (conventional) to produce oil from the Hobbs (Grayburg-San Andres) Pool and the Hobbs-Blinbry Pool through parallel strings of 2 3/8-inch tubing, with separation of the zones by a packer set at approximately 5800 feet;

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 insofar as said rule is not inconsistent with this order;

PROVIDED FURTHER, that the applicant shall take packer-leakage tests upon completion and annually thereafter during the Annual Gas-Oil Ratio Test Period for the Hobbs-Blinbry Pool.

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

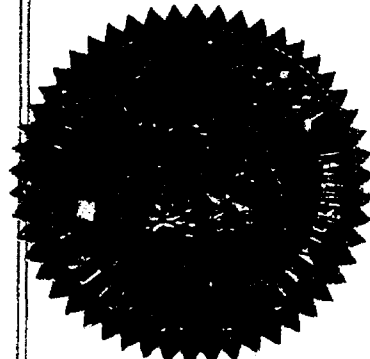
DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO  
OIL CONSERVATION COMMISSION

  
DAVID F. CARGO, Chairman

  
ALEX J. ARMIJIO, Member

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



esr/

4183

Heard 8-27-69

Rec. 8-29-69

Grant Humble permission to  
knally complete their Bowers  
A' Sed Com #33 in the  
Hobbs-S.A. + Hobbs Blinby  
oil Pools. Completion is  
conventional. Zones separ-  
ated with a pulser + each  
zone produced thru 2 $\frac{3}{8}$ "  
 tubing.

~~S.I.P.~~ Packers tests on  
Hobbs. ~~S.I.~~ Blinby S.I.  
peric d.

Thur. H.



CASE 4194 - Continued from Page 1 -

seeks authority to inject gas through two additional wells located in Unit L of Section 34, Township 17 South, Range 35 East and Unit B of Section 4, Township 18 South, Range 35 East and to expand said project area to include the SE/4 NE/4 of Section 33 and the NW/4, N/2 SE/4, and SW/4 SE/4 of Section 34 Township 17 South, Range 35 East. Applicant further seeks authority to dually complete all gas injection wells in the project in such a manner as to permit the production of oil from the lower section of the Abo Reef through tubing and the injection of gas into the upper section of the Abo Reef through the casing-tubing annulus.

CASE 4195: Application of Continental Oil Company for eight non-standard gas proration units and a non-standard gas well location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the rededication of acreage to establish the eight following non-standard gas proration units in Township 20 South, Range 37 East, Eumont Gas Pool, Lea County, New Mexico:

A 120-acre non-standard unit comprising the SE/4 NE/4 and E/2 SE/4 of Section 14, to be dedicated to the "SEMU" Well No. 46, located in Unit D of said Section 14;

A 240-acre non-standard unit comprising the NE/4 and E/2 SE/4 of Section 26, to be dedicated to the "SEMU" Well No. 64, located in Unit G of said Section 26;

A 560-acre non-standard unit comprising the W/2 and W/2 SE/4 of Section 26 and the E/2 E/2 of Section 27, to be dedicated to the "SEMU" Well No. 65, located in Unit L of said Section 26;

A 640-acre non-standard unit comprising the W/2 and the W/2 E/2 of Section 14 and E/2 E/2 of Section 15, to be dedicated to the "SEMU" Well No. 66, located in Unit L of said Section 14;

DOCKET: EXAMINER HEARING - WEDNESDAY - AUGUST 27, 1969

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, Alternate Examiner:

- CASE 4191: Application of Gulf Oil Corporation for salt water disposal, Roosevelt County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the San Andres formation in the perforated interval from approximately 4408 feet to 4415 feet in its Roosevelt "AN" State Well No. 3 located in the NW/4 SE/4 of Section 32, Township 7 South, Range 36 East, adjacent to the Todd-Lower San Andres Pool, Roosevelt County, New Mexico.
- CASE 4192: Application of Southwest Production Corporation for an unorthodox gas well location, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks authority to drill its Buffalo Valley "Com" Well No. 2 at an unorthodox location 1650 feet from the North line and 990 feet from the East line of Section 35, Township 14 South, Range 27 East, Buffalo Valley-Pennsylvanian Gas Pool, Chaves County, New Mexico, in exception to the provisions of Rule 2 of the special rules for said pool.
- CASE 4193: Application of Humble Oil & Refining Company for a dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion (conventional) of its Bowers "A" Federal Com 33 Well No. 33 located in Unit D of Section 29, Township 18 South, Range 30 East, Lea County, New Mexico, in such a manner as to permit the production of oil from the Hobbs (Grayburg-San Andres) Pool and the Hobbs-Blirebry Pool through parallel strings of tubing.
- CASE 4194: Application of Phillips Petroleum Company for an amendment of Order No. R-3181 and dual completions, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the amendment of Order No. R-3181, which order established special rules regulating the operation of the Phillips Petroleum Company Vacuum Abo Pressure Maintenance Project, Vacuum-Abo Reef Pool, Lea County, New Mexico. Applicant

CASE 4197 - Continued from Page 3 -

Applicant now seeks authority to locate said well at an unorthodox location 1980 feet from the North line and 1450 feet from the West line of said Section 35 in the Forest (San Andres) Pool.

CASE 4198: Application of Continental Oil Company for amendment of Order No. R-3487, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the amendment of Order No. R-3487 which authorized the applicant to utilize its Eaves "A" Well No. 10, located in Unit P of Section 19, Township 26 South, Range 37 East, Scarborough Yates-Seven Rivers Pool, to dispose of salt water into the Seven Rivers formation in the interval from 3208 feet to 3255 feet. Applicant now seeks authority to inject produced salt water into the Yates and Seven Rivers formations in the perforated and open-hole interval from approximately 3107 feet to 3410 feet in said well and the reclassification of said salt water disposal well to a pressure maintenance injection well.

CASE 4199: Application of Burleson & Huff for compulsory pooling and a non-standard gas proration unit, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Jalmat Gas Pool underlying the SE/4 of Section 28, Township 25 South, Range 37 East, Lea County, New Mexico. Said 160-acre non-standard gas proration unit to be dedicated to the Burleson & Huff "Cook" Well No. 2, a recompleted well, located 660 feet from the South and East lines of said Section 28. Also to be considered will be the costs of drilling and/or recompleting said well, a charge for the risk involved, a provision for the allocation of actual operating costs, and the establishment of charges for supervision of said well.

CASE 4200: Application of Burleson & Huff for compulsory pooling and a non-standard gas proration unit, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Jalmat Gas Pool underlying the NE/4 of Section 29, Township 25 South, Range 37 East, Lea County, New Mexico. Said 160-acre non-standard gas proration unit to be dedicated to a well,

CASE 4195 - Continued from Page 2 -

A 320-acre non-standard unit comprising the SE/4, S/2 NE/4, and E/2 SW/4 of Section 24, to be dedicated to the "SEMU" Well No. 67, located in Unit K of said Section 24;

A 640-acre non-standard unit comprising the E/2 and E/2 W/2 of Section 23 and W/2 W/2 of Section 24, to be dedicated to the "SEMU" Well No. 58, located in Unit J of said Section 23;

An 80-acre non-standard unit comprising the E/2 NW/4 of Section 24, to be dedicated to the "SEMU" Well No. 69, located in Unit F of said Section 24;

A 320-acre non-standard unit comprising the E/2 E/2 of Section 22 and the W/2 W/2 of Section 23, to be dedicated to the "SEMU" Well No. 90, to be completed at a non-standard location 550 feet from the South and East lines of said Section 22.

CASE 4196: Application of Continental Oil Company for a non-standard gas proration unit, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the consolidation of three existing non-standard gas proration units into one 360-acre non-standard unit comprising the W/2 and the NW/4 NE/4 of Section 18, Township 23 South, Range 37 East, Jalmat Gas Pool, Lea County, New Mexico, to be dedicated to its Stevens "B" Wells Nos. 15 and 16, located in Units F and K, respectively, of said Section 18. Applicant further seeks authority to produce the allowable assigned to said unit from either of the aforesaid wells in any proportion.

CASE 4197: Application of Continental Oil Company for an amendment to Order No. R-3755, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks the amendment of Order No. R-3755 which authorized, among other things, the drilling of a water injection well in the Forest Donahue Waterflood Project area at a location 1980 feet from the North line and 1350 feet from the West line of Section 35, Township 16 South, Range 29 East, Eddy County, New Mexico.

CASE 4204 - Continued from Page 5 -

and unorthodox locations in Sections 3 and 4, Township 25 South, Range 37 East, Langlie-Mattix Pool, Lea County, New Mexico. Applicant further seeks a procedure whereby additional injection wells at orthodox and unorthodox locations may be approved for said project administratively.

CASE 4205: Application of Tesoro Petroleum Corporation for four unorthodox injection well locations and amendment of Order No. R-2807, McKinley County, New Mexico. Applicant, in the above-styled cause, seeks authority to inject water into the Hospah Upper Sand Oil Pool in its Hospah Unit Waterflood Project Area through four additional injection wells at unorthodox locations in Section 36, Township 18 North, Range 9 West, McKinley County, New Mexico, said wells to be located as follows:

Well No. 62 located 1900 feet from the South line and 1140 feet from the West line;

Well No. 63 located 1980 feet from the North line and 2310 feet from the West line;

A well to be drilled 1430 feet from the South line and 2625 feet from the East line;

A well to be drilled 30 feet from the South line and 2350 feet from the East line.

Applicant further seeks the amendment of Order No. R-2807, which order authorized the aforesaid waterflood project, to establish a procedure whereby additional injection wells at unorthodox locations, as may be necessary to complete an efficient injection pattern, may be approved administratively.

CASE 4206: Application of Shell Oil Company for an unorthodox oil well location and amendment to Order No. R-2538, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to drill a producing oil well at an unorthodox location 1315 feet from the North line and 2625 feet from the West line of Section 34, Township 19

CASE 4200 - Continued from Page 4 -

to be recompleted, located 660 feet from the East line and 1980 feet from the North line of said Section 29. Also to be considered will be the costs of drilling and/or recompleting said well, a charge for the risk involved, a provision for the allocation of actual operating costs, and the establishment of charges for supervision of said well.

CASE 4201: Application of Mobil Oil Corporation for a unit agreement, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Langlie-Mattix Queen Unit Area comprising 1120 acres, more or less, of federal and fee lands in Sections 10, 11, 14, 15, 22, and 23, Langlie-Mattix Pool, Lea County, New Mexico.

CASE 4202: Application of Mobil Oil Corporation for a waterflood project and unorthodox injection well locations, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project in its Langlie-Mattix Queen Unit Area by the injection of water into the Queen sand through 17 wells at orthodox and unorthodox locations in Sections 10, 11, 14, 15, 22, and 23, Township 25 South, Range 37 East, Langlie-Mattix Pool, Lea County, New Mexico. Applicant further seeks a procedure whereby additional injection wells at orthodox and unorthodox locations may be approved for said project administratively.

CASE 4203: Application of Mobil Oil Corporation for a unit agreement, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Humphrey Queen Unit Area comprising 751 acres, more or less, of federal and fee lands in Sections 3 and 4, Township 25 South, Range 37 East, Langlie-Mattix Pool, Lea County, New Mexico.

CASE 4204: Application of Mobil Oil Corporation for a waterflood project and unorthodox injection well locations, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project in its Humphrey Queen Unit Area by the injection of water into the Queen sand through 11 wells at orthodox

CASE 4208 - Continued from Page 7 -

several waterflood projects by the injection of water into the Seven Rivers formation through his Mary Lou Well No. 1 located in Unit H of Section 29 and his Caroline Well No. 4 located in Unit E of Section 28, both in Township 19 South, Range 28 East, East Millman-Seven Rivers Pool, Eddy County, New Mexico.

CASE 4209: Application of Harvey E. Yates Company of Artesia for several pressure maintenance projects, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute several pressure maintenance projects by the injection of water into the Seven Rivers and Queen formations, McMillan (Seven Rivers-Queen) Pool, Eddy County, New Mexico, through the following-described wells in Township 20 South, Range 27 East:

Page & Yates Well No. 8 - Unit M - Section 5  
Page & Yates Well No. 6 - Unit I - Section 6  
Page & Yates Well No. 7 - Unit J - Section 6  
Lillie Yates Well No. 2 - Unit B - Section 7

CASE 4206 - Continued from Page 6 -

South, Range 35 East, as an infill well in its East Pearl-Queen Unit Waterflood Project area, East Pearl-Queen Pool, Lea County, New Mexico. Applicant further seeks the amendment of Order No. R-2538, which order authorized the aforesaid waterflood project, to establish a procedure whereby additional producing wells at unorthodox infill locations in the aforesaid project area, as may be necessary to complete an efficient producing pattern, may be approved administratively.

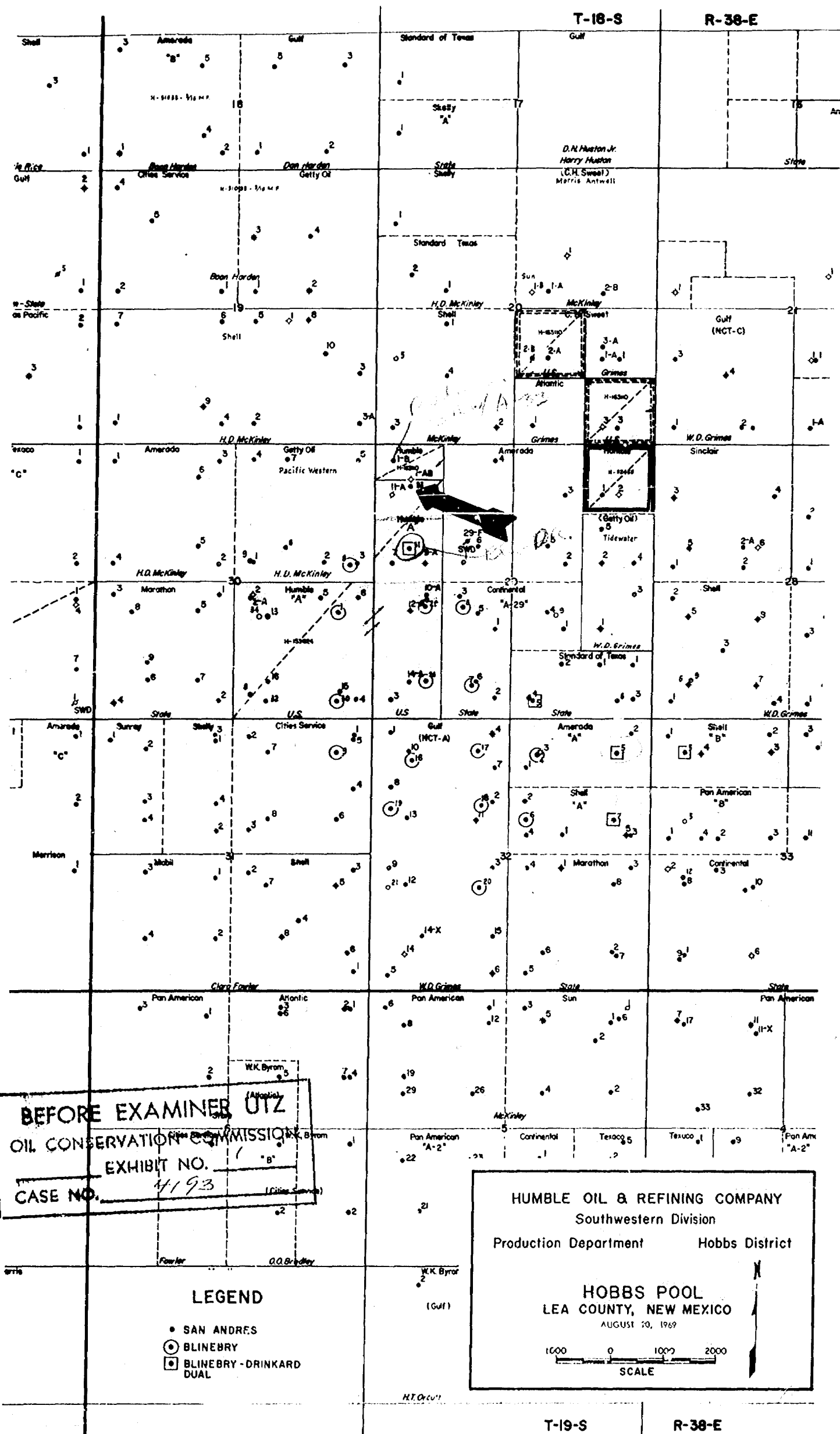
CASE 4207: Application of C. W. Trainer and DEL-LEA, Inc., for an unorthodox gas well location, Lea County, New Mexico. Applicants, in the above-styled cause, seek an exception to Rule 104 C II to permit the drilling of a well at an unorthodox gas well location 330 feet from the North line and 660 feet from the West line of Section 35, Township 12 South, Range 34 East, West Ranger Lake-Devonian Gas Pool, Lea County, New Mexico. The N/2 of said Section 35 to be dedicated to the well.

CASE 4186: (Readadvertised)

Application of Tenneco Oil Company for compulsory pooling and an unorthodox gas well location, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Basin-Dakota Gas Pool underlying the North half of Section 11, Township 29 North, Range 13 West, San Juan County, New Mexico. Said acreage to be dedicated to a well to be drilled at an unorthodox gas well location 2250 feet from the North line and 600 feet from the East line of said Section 11. Also to be considered will be the costs of drilling said well, a charge for the risk involved, a provision for the allocation of actual operating costs, and the establishment of charges for supervision of said well. In the absence of a valid objection an order will be issued upon the record entered in the subject case August 6, 1969.

CASE 4208: Application of John A. Yates of Artesia for several waterflood projects, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute

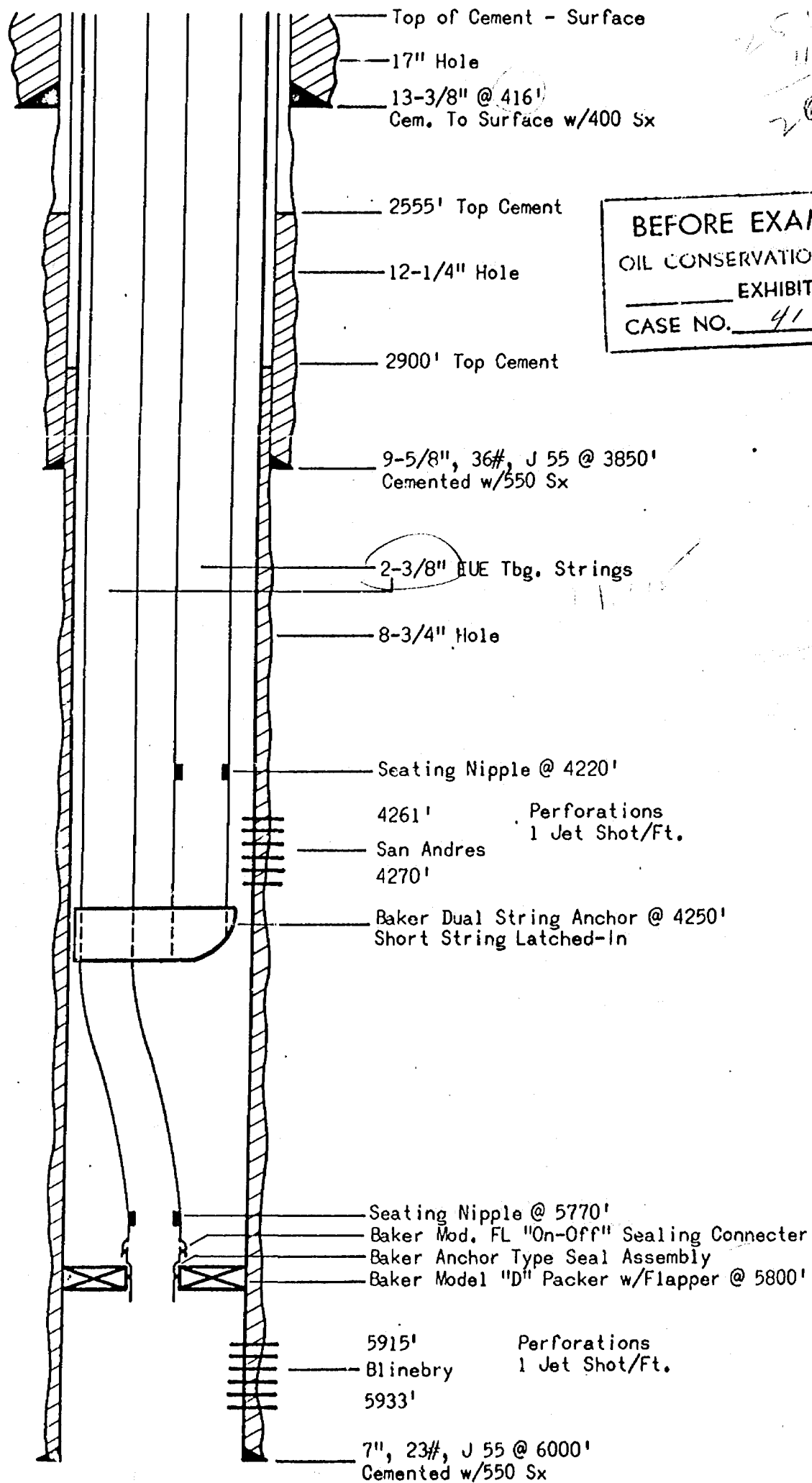




HUMBLE OIL & REFINING COMPANY

Bowers "A" Federal Com 33

Hobbs Grayburg San Andres - Blinebry Dual



BEFORE EXAMINER UTZ  
OIL CONSERVATION COMMISSION  
EXHIBIT NO. 3  
CASE NO. 4193

# HUMBLE OIL & REFINING COMPANY

MIDLAND, TEXAS 79701

PRODUCTION DEPARTMENT  
SOUTHWESTERN DIVISION  
E. C. BARFIELD  
OPERATIONS MANAGER

August 8, 1969

POST OFFICE BOX 1600

Application to Dual Complete  
Bowers "A" Federal Com. 33 Well No. 33  
Hobbs Blinbry and Hobbs Drinkard Pools  
Lea County, New Mexico

New Mexico Oil Conservation Commission  
P. O. Box 2088  
Santa Fe, New Mexico 87501

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

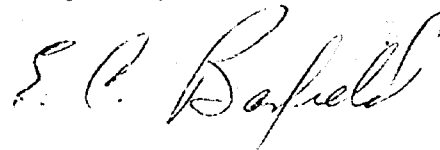
Gentlemen:

By letter dated August 4, 1969 we transmitted Form C-107, Application for Multiple Completion, plats and a diagramatic sketch of the mechanical installation for the above captioned well.

Attached please find an amended diagramatic sketch showing quantities of cement used, cement tops and corrected perforations in the Blinbry formation.

If we can be of further assistance, please advise.

Very truly yours,



DLC/hmf

Attachment

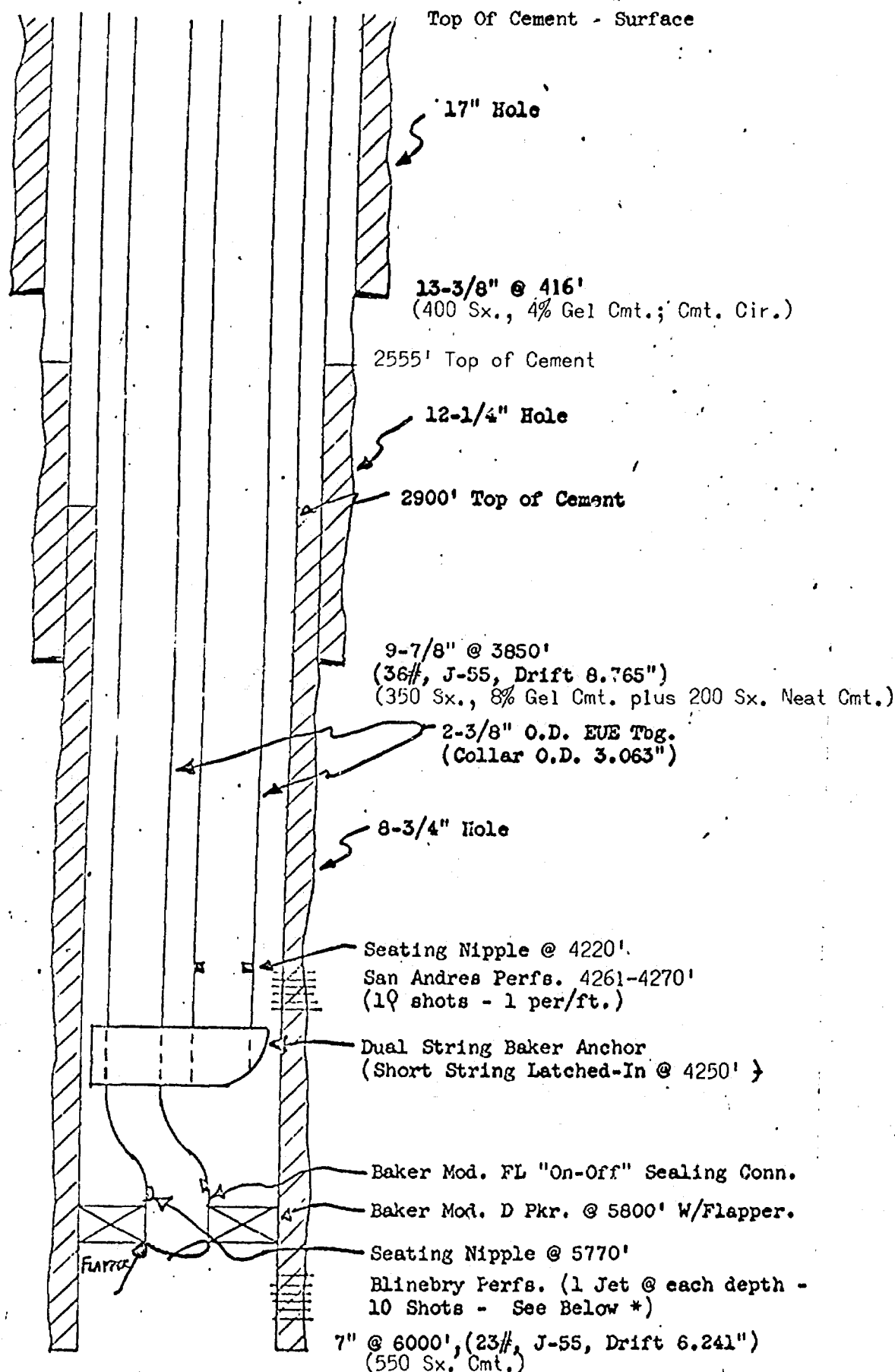
Orig. & lcc: N.M.O.C.C., Santa Fe, New Mexico  
2cc: N.M.O.C.C., Hobbs, New Mexico  
lcc: All Offset Operators  
lcc: Hobbs District

16  
BOWERS "A" FEDERAL COM. 33, WELL NO. 33  
7" CASINO CONVENTIONAL DUAL  
HOBBS GRAYBURG SAN ANDRES POOL WITH HOBBS BLINEBRY POOL

AMENDED

Revised 8/7/69

8 10  
69 AUG 12



\* Blinebry Perfs.: 5915', 5916, 5917, 5918, 5919, 5929, 5930, 5931, 5932, 5933  
(Orig. Blinebry Perfs. same as above plus 5939, 5943, 5944, 5952, and 5953';  
after acidizing with 1500 gallons, sq. cmt. channels (both up and down)  
through original perfs. with 45 sx. class "C" cmt. with 3/4ths of 1%  
LFL additive @ 1500 psig.)

OIL CONSERVATION COMMISSION  
I DISTRICT

MAIN OFFICE

'69 AUG 15 PM 1 49

4193

OIL CONSERVATION COMMISSION  
BOX 871  
SANTA FE, NEW MEXICO

DATE Aug. 13, 1969

Re: Proposed NSP \_\_\_\_\_  
Proposed Triple \_\_\_\_\_  
Proposed NSL \_\_\_\_\_  
Proposed NFO \_\_\_\_\_  
Proposed DC X

Gentlemen:

I have examined the application dated XX 8/5/69

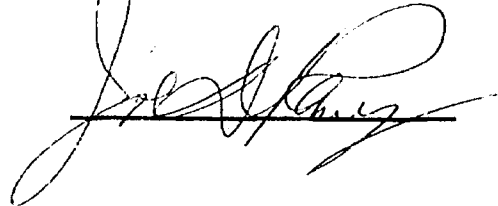
for the Humble Oil & Rfg. Co. Bowers A Fed. Com 33 #33-D 29-18-38  
Operator Lease and Well No. S-T-R

and my recommendations are as follows:

O.K.---J.D.R.

O.K.---J.W.R.

Yours very truly,



# HUMBLE OIL & REFINING COMPANY

MIDLAND, TEXAS 79701

PRODUCTION DEPARTMENT  
SOUTHWESTERN DIVISION  
E. C. BARFIELD  
OPERATIONS MANAGER

August 4, 1969

POST OFFICE BOX 1600

Re: Application to Dual Complete  
Bowers "A" Federal Com. 33 Well No. 33  
Hobbs Grayburg-San Andres and  
Hobbs Blinebry Pools  
Lea County, New Mexico

*Self for hearing Case 4193*

New Mexico Oil Conservation Commission  
P. O. Box 2088  
Santa Fe, New Mexico 87501

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

Gentlemen:

Humble Oil & Refining Company respectfully requests administrative approval to dual complete its Bowers "A" Federal Com. 33 Well No. 33 located in Unit D, Section 29, T-18-S, R-38-E.

It is proposed to dually complete this well in such a manner as to permit the Grayburg-San Andres and Blinebry Pools to be produced through parallel strings of 2 3/8" O. D. tubing as shown on the attached sketch.

Very truly yours,

*E. C. Barfield*

DLC/hnf

Attachments

Orig. & lcc: NMOCC - Santa Fe, New Mexico  
2cc: NMOCC - Hobbs, New Mexico  
lcc: Hobbs District

DOCKET MAILED

Date *8-15-69*

NEW MEXICO OIL CONSERVATION COMMISSION  
SANTA FE, NEW MEXICO  
APPLICATION FOR MULTIPLE COMPLETION

Form C-107  
5-1-61

*Case 4193*

Operator <b>Humble Oil &amp; Refining Company</b>		County <b>Lea</b>		Date <b>August 4, 1969</b>
Address <b>Box 1600, Midland, Texas 79701</b>		Lease <b>Bowers "A" Federal Com.</b>		Well No. <b>33</b>
Location of Well	Unit <b>D</b>	Section <b>29</b>	Township <b>18 South</b>	Range <b>38 East</b>

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.: \_\_\_\_\_

3. The following facts are submitted:		Upper Zone	Intermediate Zone	Lower Zone
a. Name of Pool and Formation	<i>Hobbs</i>	<b>Grayburg-San Andres</b>	<i>Adjacent</i>	<b>Hobbs - Blinebry</b>
b. Top and Bottom of Pay Section (Perforations)		<b>4182-4191</b>		<b>5915-5953</b>
c. Type of production (Oil or Gas)		<b>Oil</b>		<b>Oil</b>
d. Method of Production (Flowing or Artificial Lift)		<b>Artificial Lift</b>		<b>Artificial Lift</b>

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

- |                                     |                                     |   |
|-------------------------------------|-------------------------------------|---|
| Yes                                 | No                                  |   |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 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. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 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.   |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 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.*  |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 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.

**Amerada Petroleum Corporation, Box 312, Midland, Texas 79701**

**Cities Service Oil Company, Box 4906, Midland, Texas 79701**

**Continental Oil Company, Box 431, Midland, Texas 79701**

**Getty Oil Company, Box 1231, Midland, Texas 79701**

**Gulf Oil Corporation, Box 1150, Midland, Texas 79701**

**Marathon Oil Company, Box 552, Midland, Texas 79701**

**Skelly Oil Company, Box 1727, Midland, Texas 79701**

**Shell Oil Company, Box 1509, Midland, Texas 79701**

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 **August 4, 1969**.

CERTIFICATE: I, the undersigned, state that I am the **Agent** of the **Humble Oil & Refining 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.

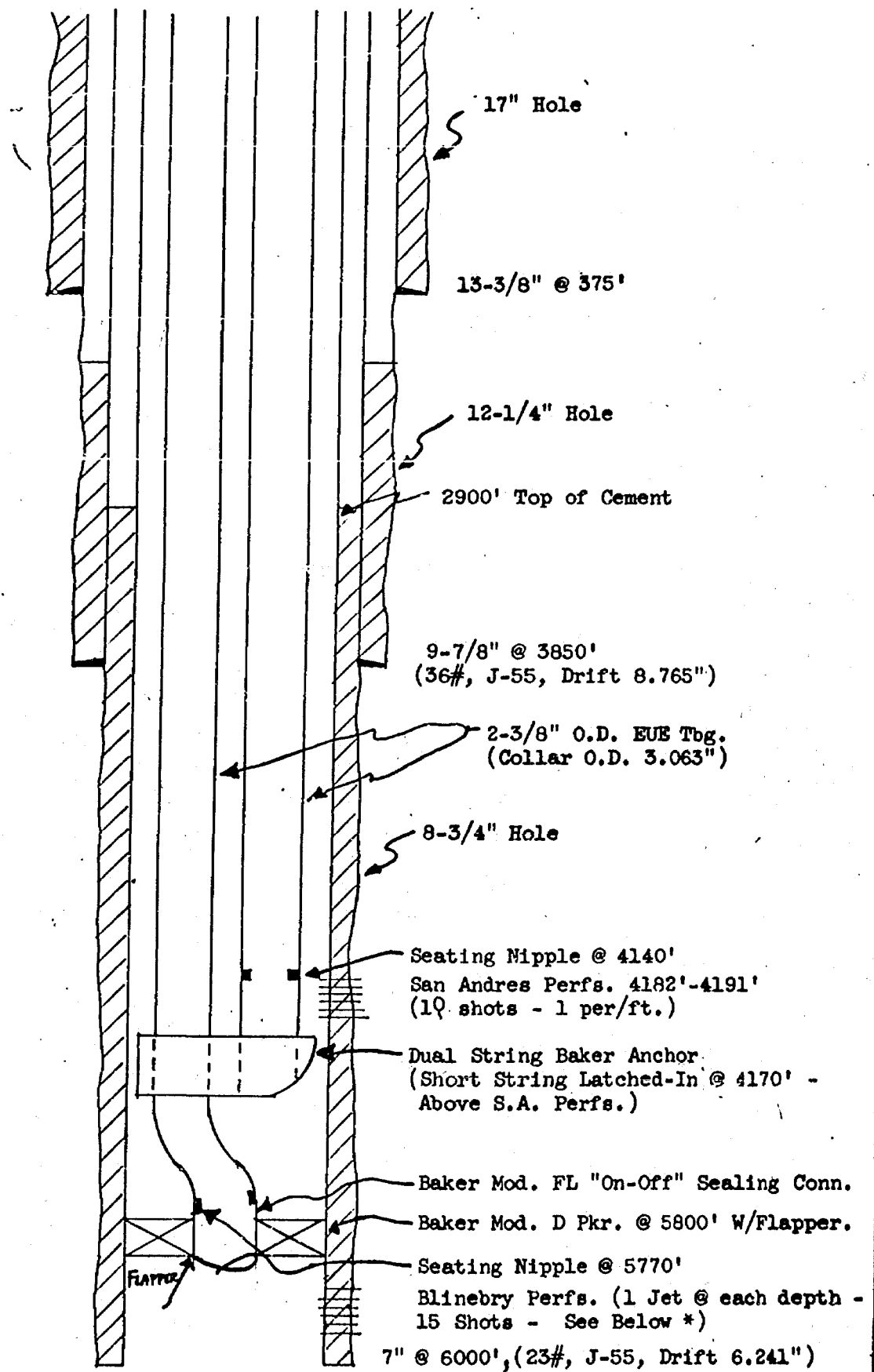
*D. L. Clemmer* **D. L. Clemmer**  
Signature

\*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 multiple completion will result in an unorthodox well location and/or a non-standard proration unit in one or more of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

BOWERS "A" FEDERAL COM. 33, WELL NO. 33  
 7" CASING CONVENTIONAL DUAL - HOBBS  
 GRAYBURG SAN ANDRES POOL WITH HOBBS BLINEBRY POOL

*Page 4/93*



\* Blinebry Perfs.: 5915', 5916, 5917, 5918, 5919, 5929, 5930, 5931, 5932, 5933, 5939, 5943, 5944, 5952 & 5953'.



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

(4) That approval of the subject application will prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That the applicant, Humble Oil & Refining Company, is hereby authorized to complete its Bowers "A" Federal Com ~~33~~ Well No. 33, located in Unit D of Section 29, Township 18 ~~North~~ South, Range 38 ~~West~~ East, NMPM, Lea County, New Mexico, as a dual completion (conventional) oil (combination) to produce gas (tubingless) from the Hobbs (Grayburg-San Andres) Pool ~~through~~ and the Hobbs-Blaine Pool through parallel strings of 2 3/8 -inch tubing, with separation of the zones by a packer set at approximately 5800 feet;

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 insofar as said rule is not inconsistent with this order;

PROVIDED FURTHER, that the applicant shall take packer-leakage tests upon completion and annually thereafter during the Annual ~~zone segregation~~ Gas-Oil Ratio Test Period for the Hobbs-Blaine Pool. ~~Deliverability.~~

(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.

DRAFT

GMH/esr

BEFORE THE OIL CONSERVATION COMMISSION  
OF THE STATE OF NEW MEXICO

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

CASE No. 4193

Order No. R-383

APPLICATION OF HUMBLE OIL & REFINING COMPANY  
FOR A DUAL 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  
August 27, 1969, at Santa Fe, New Mexico, before Examiner  
Elvis A. Utz.

NOW, on this September day of August, 1969, 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, Humble Oil & Refining Company,  
seeks authority to complete its Bowers "A" Federal Com. 33  
Well No. 33, located in Unit D of Section 29, Township

18 South, Range 38 East, NMPM, Lea County, New  
~~North~~ ~~West~~

Mexico, as a dual completion (conventional) oil  
~~(combination)~~ to produce ~~gas~~  
~~(tubingless)~~

from the Hobbs (Grayburg-San Andres) Pool ~~through~~ and the  
Hobbs-Blinebry Pool through parallel strings of 2 3/8 -inch  
tubing, with separation of the zones by a packer set at  
approximately 5800 ~~4250~~ feet.