

Case No.

1488

Application, Transcript,
Small Exhibits, Etc.

CASE 1486: Western Natural Gas Co. appli-
cation for oil-oil dual completion of its
Wimberly #5 Well, 24-25S-37E.

BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
JULY 24, 1958

IN THE MATTER OF:

CASE NO. 1488

TRANSCRIPT OF HEARING

DEARNLEY - MEIER & ASSOCIATES
GENERAL LAW REPORTERS
ALBUQUERQUE NEW MEXICO
Phone CHapel 3-6691

BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
JULY 24, 1958

IN THE MATTER OF:

CASE NO. 1488 Application of Western Natural Gas Com-
pany for an oil-oil dual completion.
Applicant, in the above-styled cause,
seeks an order authorizing the dual
completion of its Wimberly No. 5 Well,
990 feet from the North line and 2310
feet from the West line of Section 24,
Township 25 South, Range 37 East, Lea
County, New Mexico, in such a manner as
to permit the production of oil from
the Justis-Ellenburger Pool and oil
from an undesignated Montoya pool
through parallel strings of tubing.

BEFORE:

Elvis A. Utz, Examiner.

T R A N S C R I P T O F P R O C E E D I N G S

MR. UTZ: Next case will be Case 1488.

MR. PAYNE: Application of Western Natural Gas Company for
an oil-oil dual completion.

MR. SAPP: My name is Charles Sapp. I am a lawyer from
Houston representing Western Natural. Our witness is Mr. Cook,
and he is ready to be sworn.

(Witness sworn)

WENDELL COOK,

called as a witness, having been first duly sworn on oath, testi-
fied as follows:

DIRECT EXAMINATION

BY MR. SAPP:

Q Will you state your name, please, sir, the city of your residence and the position you hold with Western Natural Gas Company?

A Wendell Cook, division petroleum engineer, Midland, Texas.

Q Mr. Cook, in connection with this application which concerns the dual completion of Western Natural Gas Company Wimberly No. 5 Well, did you prepare either directly or under your supervision a plat showing the well location?

A Yes, sir, I did.

Q And that is a plat that is marked as Exhibit No. 1?

A Yes, it is.

Q Will you state the location of that well, please, sir?

A Western Natural Gas Company's Wimberly No. 5 Well is located 990 feet from the North line and 2310 feet from the West line of Section 24, Township 25 South, Range 37 East, Lea County, New Mexico.

Q Is that lease owned solely by Western Natural Gas Company?

A Yes, it is.

Q The offset owners to that lease, have they been notified of this application and hearing?

A Yes, sir. They were notified by letter of the application that we sent to the Commission, copies of it.

Q Where has the No. 5 Well been completed, shown on that plat,

sir? In what reservoir?

A It has been completed in the Montoya reservoir and the Ellenburger reservoir.

Q I show you a sheet marked Applicant's Exhibit No. 2. Will you state whether that plat or diagram was prepared either directly by you or under your supervision?

A Yes, it was.

Q What does that show?

A That shows the dual completion --

Q Shows the mechanics of the --

A Yes, of the Wimberly No. 5.

Q Will you proceed to explain the mechanics of that completion?

A The seven-inch casing was set at 8,085, that's eight thousand, eighty-five feet. The Ellenburger zone we drilled open holes through the casing to 8,210 with ten-pound mud in the casing. The Montoya zone was perforated from 7,002 to 7,015 feet. A Baker oil tool retainer production packer was set off a wire line at 8,000 feet in the seven-inch casing. I might add that this Baker packer has a very good reputation for this particular type duals, and over a period of time it has proven itself as such in the oil industry. The long string, or Ellenburger string of tubing was run and set in the Baker Model "D" retainer, and this two and three-eighths EUE tubing at 8,189. The short string, or Montoya string of two and three-eighths EUE tubing was suspended at 7,029 feet. We have a

Baker parallel string anchor in the long string at 7,053 feet. That will allow us, at a later date, to put the short string in tension if and when it becomes necessary to pump the Montoya reservoir. I believe that is the mechanics of the completion.

Q Approximately what is the distance between the perforations in the Ellenburger formation or reservoir and the perforations in the Montoya reservoir?

A A thousand and seventy feet.

Q Now, the packer, of course, is in the casing between those two perforations?

A That is right.

Q Now, have any tests been conducted to establish that the packer is tight?

A Yes, sir. We conducted a packer leakage test.

Q I show you now Applicant's Exhibit No. 3, which consists of five sheets marked 1 through 5. Will you state the nature of those five sheets, what they show?

A This was run by a disinterested third party, Coleman Petroleum Engineering Company, of Hobbs. It simply shows that the two producing zones are separated properly.

Q Is any opinion expressed by the concern that ran that test?

A Yes, they stated such.

Q They advised you that you do have a tight packer between those two --

A It is sealed. The two formations -- there is no interference between the two formations.

Q Were any bottom hole surveys run on the well?

A Yes, there was.

Q I show you now two sheets, one marked Applicant's Exhibit No. 4, and the other marked Applicant's Exhibit No. 5. And will you state what those Exhibits are, please?

A These are bottom hole pressure surveys run on the Montoya and the Ellenburger formations in the separate strings of tubing.

Q In this well?

A In this Wimberly No. 5.

Q What were the results of your surveys?

A The Montoya, the subsea datum of minus 3,940 bottom hole pressure was 2,859 pounds. The Ellenburger, the deeper formation, at a minus 5,100 subsea datum bottom hole pressure of 3,245 pounds.

MR. UTZ: Excuse me just a moment. Which one of these did you want marked Exhibit No. 4 and which Exhibit No. 5?

A Exhibit No. 4 is Montoya.

Q Will you give us the gravity of the oil in the lower Ellenburger reservoir?

A The Ellenburger oil will average forty-five degrees API corrected to sixty degrees Fahrenheit.

Q And what is the gravity of the oil in the upper Montoya reservoir?

A Thirty-six point six degrees API correct to sixty degrees Fahrenheit.

Q And what is the gas-oil ratio in the Ellenburger?

A One hundred and fifty to one.

Q And the Montoya?

A Seven hundred and eighty-eight to one.

Q Has the well been produced as yet from the Ellenburger reservoir?

A Yes, sir, we have an allowable established on the Ellenburger.

Q Has a well yet been produced from the Montoya reservoir?

A No, sir, it is shut in. We have not produced the Montoya.

Q Do you have, or will there be installed facilities sufficient to permit production from the wells to be segregated so that the Ellenburger will be segregated from the Montoya?

A Yes, sir.

Q What is the nature of those facilities?

A We have separate lease separators and tanks for the Ellenburger and again for the Montoya.

Q Now, is the No. 5 Well completed so that you can run packer leakage tests from time to time, bottom hole pressure tests from time to time, and bottom hole ratio tests from time to time in accordance with the Commission's Rules and Regulations?

A Yes, sir.

Q And the well will be produced in accordance, of course,

with the Rules and Regulations of the Commission?

A Of course.

MR. SAPP: I would like to ask that the Exhibits heretofore used and referred to by the witness be accepted in evidence in this case.

MR. UTZ: Without objection, Exhibits 1 through 5 will be accepted.

MR. SAPP: I have no further questions at this time of the witness.

MR. UTZ: Mr. Sapp, I think you failed to qualify your witness. Would you like to do that?

MR. SAPP: I beg your pardon.

Q (By Mr. Sapp) Mr. Cook, have you previously testified before this Commission as an expert witness?

A Yes, sir, I have.

MR. SAPP: Do you desire any further qualifications, Mr. Examiner?

MR. UTZ: You have testified before, here?

A Yes.

MR. UTZ: His qualifications are acceptable.

MR. PAYNE: Let the record show that his testimony was received as that of an expert.

MR. UTZ: Are there any questions of Mr. Cook?

MR. PAYNE: One question.

CROSS EXAMINATION

BY MR. PAYNE:

Q Mr. Cook, are you familiar with our revision of Rule 112-A dealing with dual completions?

A Is that the -- for the administrative approval?

Q Yes, sir.

A Yes, sir, I am.

Q And your application here would be eligible for administrative approval but for the fact that there has not been a previous dual completion in the two zones involved?

A That is correct.

MR. PAYNE: Thank you.

QUESTIONS BY MR. UTZ:

Q Mr. Cook, is the thirteen and three-eighths casing circulated -- cement circulated to the surface?

A Yes, sir.

Q And nine and five-eighths, is it also circulated?

A The nine and five-eighths cement is circulated to the surface, that is correct.

Q And the seven-inch was circulated to 3,025?

A That is correct.

Q That would give you a 365 foot bond in between the nine and five-eighths and seven-eighths?

A Yes, sir, that is correct.

Q The parallel packer string anchor, does it serve any useful purpose until you are ready to pump?

A No useful purpose until we are ready to put in the short string in tension.

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

QUESTIONS BY MR. FISCHER:

Q Mr. Cook, could you give me your ideas of shut-in characteristics of this Montoya pay, causing it, after shut-in, to go from a higher pressure to a lower pressure, on the chart that was submitted along with the packer leakage test?

A Let me get in my mind, Mr. Fischer. Is that the first chart?

Q It would be on the chart too, but I am looking at the last sheet graph. After you shut in the Montoya, it built up immediately and then it decreased in pressure?

A That's between -- we are establishing --

Q Right there.

A We are establishing the period of equilibrium before we opened up the Ellenburger, is that right?

Q Right. What I was wondering about is that due to the fact that the liquid level dropped, or I am trying to get your ideas on what you might think is the cause of that?

A Well, as I recall talking with the firm that ran it, Mr. Coleman, of Coleman Engineering Company, we -- those were natural completions, and the Montoya being a rather strong reservoir, Mr. Fischer, possibly that could be the case, the fluid level as

indicated by the bottom hole pressure is right, oh, within 682 feet, 500 feet where you start getting your gradient, if you notice there. That and temperature change, possibly. I don't know whether you could attribute much to the temperature change or not. I doubt that, but mostly the fact that it has a high productive index, which, of course, we have no reservoir characteristics as of yet because we haven't produced it. But all indications reveal that, that possibly recession of the fluid level could cause that slight decrease in your pressure.

MR. FISCHER: Thank you.

MR. UTZ: Any other questions of the witness? If not, the witness may be excused.

(Witness excused)

MR. UTZ: Are there any other statements to be made in this case? If there are no further statements, the case will be taken under advisement. The hearing will be recessed until one-thirty.

C E R T I F I C A T E

STATE OF NEW MEXICO)
 : ss
 COUNTY OF BERNALILLO)

I, J. A. TRUJILLO, Notary Public in and for the County of Bernalillo, State of New Mexico, do hereby certify that the foregoing and attached Transcript of Proceedings before the New Mexico Oil Conservation Commission was reported by me in Stenotype and reduced to typewritten transcript by me and/or under my personal supervision, and that the same is a true and correct record to the best of my knowledge, skill and ability.

WITNESS my Hand and Seal, this, the 4th day of August, 1958, in the City of Albuquerque. County of Bernalillo, State of New Mexico.

Joseph A. Trujillo
 Notary Public

My Commission Expires:
 October 5, 1960.

I do hereby certify that the foregoing is
 a correct record of the proceedings in
 the case of State vs. [illegible]
 heard at the Court of [illegible] July 29, 1958
[Signature]
 New Mexico Oil Conservation Commission

OIL CONSERVATION COMMISSION
P. O. BOX 871
SANTA FE, NEW MEXICO

August 7, 1958

Mr. Charles Sapp
Western Natural Gas Company
1006 Main Street
Houston, Texas

Dear Mr. Sapp:

We enclose a copy of Order R-1231 issued August 6, 1958,
by the Oil Conservation Commission in Case 1488, which was heard
on July 24th at Santa Fe before an examiner.

Very truly yours,

A. L. Porter, Jr.
Secretary - Director

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Encl.

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BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

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

CASE NO. 1488
Order No. R-1231

APPLICATION OF WESTERN NATURAL GAS
COMPANY FOR AN ORDER AUTHORIZING AN
OIL-OIL DUAL COMPLETION IN AN
UNDESIGNATED MONTOYA POOL AND IN THE
JUSTIS-ELLENBURGER POOL IN LEA COUNTY,
NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on July 24, 1958, 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 6th day of August, 1958, 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, Western Natural Gas Company, is the owner and operator of the Wimberly No. 5 Well, located 990 feet from the North line and 2310 feet from the West line of Section 24, Township 25 South, Range 37 East, NMPM, Lea County, New Mexico.
- (3) That the applicant proposes to dually complete the said Wimberly No. 5 Well in such a manner as to permit the production of oil from an undesignated Montoya pool and the production of oil from the Justis-Ellenburger Pool through parallel strings of 2-inch tubing.
- (4) That the mechanics of the proposed dual completion are feasible and in accord with good conservation practices.
- (5) That approval of the subject application will not cause waste nor impair correlative rights.
- (6) That the subject application should be granted.

-2-

Case No. 1488
Order No. R-1231

IT IS THEREFORE ORDERED:

That the applicant, Western Natural Gas Company, be and the same is hereby authorized to dually complete its Wimberly No. 5 well, located 990 feet from the North line and 2310 feet from the West line of Section 24, Township 25 South, Range 37 East, NMPM, Lea County, New Mexico, in such a manner as to permit the production of oil from an undesignated Montoya pool and the production of oil from the Justis-Ellenburger Pool through parallel strings of 2-inch tubing.

PROVIDED HOWEVER, That applicant shall complete, operate, and produce said well in accordance with the provisions of Section V, Rule 112-A, as amended by Order R-1214.

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

IT IS FURTHER ORDERED, That jurisdiction of this cause is hereby retained by the Commission for such further order or orders as may seem necessary or convenient for the prevention of waste and/or protection of correlative rights; upon failure of applicant to comply with any requirement of this order after proper notice and hearing the Commission may terminate the authority hereby granted and require applicant or its successors and assigns to limit its activities to regular single-zone production in the interests of conservation.

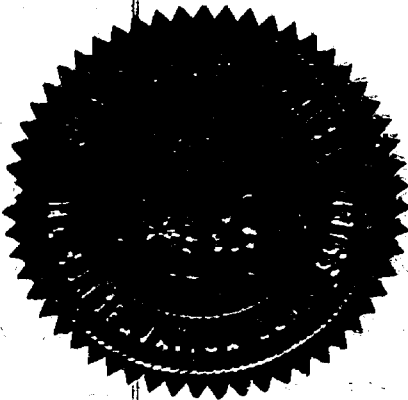
DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION


EDWIN L. MECHEM, Chairman


MURRAY E. MORGAN, Member


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



ir/

OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

Date 7-25-58

CASE 1488 Hearing Date 7-29-58

1488

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

- My recommendations for an order in the
1. The application be granted as applied. ~~for~~
The only reason this had to go to hearing
is that the Montoya zone is undesignated.
 2. The upper completion is Under Montoya.
 " lower " Justus Ellenhanger
 3. The well is the Western Natural Gas Co. —
 Winberly #5, 980/N, 2310/W sec. 24-25S-37E.

Ernest R. Wiley

Staff Member

Case 1 de 1488

Western Natural Gas Company

823 MIDLAND TOWER BLDG.

Midland, Texas

June 23, 1958

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

Gentlemen:

Western Natural Gas Company respectfully requests a hearing to consider this application for permission to dually complete applicant's Wimberly #5 as an oil-oil dual producer in such a manner that the Ellenburger and Montoya reservoirs will be produced through parallel strings of two inch tubing and in support thereof states as follows:

- I. Western Natural Gas Company's Wimberly #5 is located 990 feet from the North line and 2310 feet from the West line of Section 24, T-25-S, R-37-E, Lea County, New Mexico.
- II. The well has 13 3/8" surface casing at 543' with cement circulated to surface, 9 5/8" intermediate casing set at 3387' with cement circulated to surface, and 7" production casing set at 8085'. Top of cement behind 7" casing is at 3025'.
- III. This well is now producing thru 2 3/8" OD tubing string from the Ellenburger formation in open hole with Baker Model "D" Production Packer set off of wire line at 8000'. The 7" casing was perforated at 7002-7015 feet opposite the Montoya zone and 2 3/8" tubing string landed at 7029'. The Montoya formation is shut-in.

RECEIVED
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- IV. On June 2, 1958 a packer leakage test was conducted by Coleman Petroleum Engineering Company of Hobbs, New Mexico. The results indicate that the two producing zones are separated properly. Accompanying this letter of application are properly executed packer leakage forms by Mr. Joe A. Coleman.
- V. Subject well has been completed and equipped as indicated on the attached schematic diagram.
- VI. The manner and method of dual completing this well is mechanically sound and practical and is in the interest of conservation and the protection of correlative rights.
- VII. The applicant will comply with all rules and regulations of the New Mexico Oil Conservation Commission to maintain separation of production from the two pay zones.
- VIII. A plat is attached showing the location of the well and offset operators.
- IX. By copy of this letter and attachments all offset operators are hereby notified.

Respectfully submitted,

WESTERN NATURAL GAS COMPANY

R. H. McKoy

R. H. McKoy
Division Superintendent

STATE OF TEXAS

COUNTY OF MIDLAND

On this 23rd day of June, 1958, before me personally appeared R. H. McKoy, to me known to be the person who executed the foregoing letter and states that the foregoing statements are true to the best of his knowledge and belief.

In Witness Whereof, I have set my hand and seal on the day and year first above written.

CLARA JEAN HYATT—NOTARY PUBLIC
in and for Midland County, Texas
MY COMMISSION EXPIRES JUNE 1, 1959

Clara Jean Hyatt
Notary Public in and for Midland
County, State of Texas

My Commission Expires
June 1, 1959

MAILING LIST

Gulf Oil Corporation
P. O. Box 2167
Hobbs, New Mexico

Anderson-Frithard Oil Corporation
P. O. Box 196
Midland, Texas

R. Olsen Oil Company
Drawer Z
Jal, New Mexico

Amerada Petroleum Corporation
P. O. Box 312
Midland, Texas

Tidewater Oil Company
P. O. Box 547
Hobbs, New Mexico

Atlantic Refining Company
P. O. Box 871
Midland, Texas

DOCKET: EXAMINER HEARING JULY 24, 1958

Oil Conservation Commission 9 a.m., Mabry Hall, State Capitol, Santa Fe, NM

The following cases will be heard before Elvis A. Utz, Examiner:

CASES 1195 & 1433: Application of Graridge Corporation for an order amending Order No. R-972. Applicant, in the above-styled cause, seeks an order amending Order No. R-972 to approve a development pattern for the entire water flood project operated by the applicant in the Caprock-Queen Pool, Chaves and Lea Counties, New Mexico, and to permit administrative approval for the conversion of water injection wells in said project, which is within the limits of the North Caprock Queen Unit No. One authorized by Commission Order No. R-1145.

CASE 1482: Application of Aztec Oil and Gas Company for an unorthodox gas well location. Applicant, in the above-styled cause, seeks an order authorizing an unorthodox gas well location in the Blanco Mesaverde Gas Pool for its Culpepper-Martin No. 2 Well, 990 feet from the South and East lines of Section 30, Township 32 North, Range 12 West, San Juan County, New Mexico.

CASE 1483: Application of Atlantic Refining Company for a non-standard oil proration unit. Applicant, in the above-styled cause, seeks an order establishing a 53.98-acre non-standard oil proration unit in the Horseshoe Gallup Pool consisting of the SE/4 SE/4 of Section 32, and that portion of the SW/4 SW/4 of Section 33 which lies within the Navajo Reservation (14.53 acres), all in Township 31 North, Range 16 West, San Juan County, New Mexico.

Cont. Indef. due to trouble from 0566.
CASE 1484: Application of Gulf Oil Corporation for a non-standard gas proration unit. Applicant, in the above-styled cause, seeks the establishment of a 160-acre non-standard gas proration unit in the Tubb Gas Pool consisting of the NE/4 SE/4, NE/4 NE/4, and the S/2 NE/4 of Section 31, Township 22 South, Range 38 East, Lea County, New Mexico, said unit to be dedicated to its Scarborough Estate Well No. 2, 1880 feet from the North line and 660 feet from the East line of said Section 31.

CASE 1485: Application of Gulf Oil Corporation for a non-standard gas proration unit. Applicant, in the above-styled cause, seeks the establishment of a 160-acre non-standard gas proration unit in the Blinebry Gas Pool consisting of the NE/4 SE/4, NE/4 NE/4, and the S/2 NE/4 of Section 31, Township 22 South, Range 38 East, Lea County, New Mexico, said unit to be dedicated to its Scarborough Estate No. 3 Well, 1980 feet from the South line and 660 feet from the East line of said Section 31.

CASE 1486: Application of Gulf Oil Corporation for a non-standard gas proration unit. Applicant, in the above-styled cause, seeks the establishment of a 320-acre non-standard gas proration unit in the Eumont Gas Pool consisting of Lots 13 and 14 and the SW/4 of Section 2, and the N/2 NW/4 of Section 11, all in Township 21 South, Range 36 East, Lea County, New Mexico, said unit to be dedicated to its J. F. Janda "D" Well No. 1, 1980 feet from the South line and 660 feet from the West line of said Section 2.

CASE 1487: Application of Ohio Oil Company for two non-standard gas proration units in the Tubb Gas Pool and two non-standard gas proration units in the Blinebry Gas Pool. Applicant, in the above-styled cause, seeks an order establishing 160-acre non-standard gas proration units in both the Blinebry Gas Pool and the Tubb Gas Pool, each consisting of the S/2 NE/4, NW/4 SE/4, and the NE/4 SW/4 of Section 24, Township 22 South, Range 37 East, Lea County, New Mexico, said units to be dedicated to its dually completed J. L. Muncy Well No. 2 in the NE/4 SW/4 of said Section 24. Applicant further seeks the establishment of 160-acre non-standard gas proration units in both the Blinebry Gas Pool and Tubb Gas Pool, each consisting of the E/2 SE/4, SW/4 SE/4, and the SE/4 SW/4 of said Section 24, said units to be dedicated to its J. L. Muncy Well No. 3 in the SE/4 SW/4 of said Section 24 and Well No. 1 in the SE/4 SE/4 of said Section 24 respectively.

CASE 1488: Application of Western Natural Gas Company for an oil-oil dual completion. Applicant, in the above-styled cause, seeks an order authorizing the dual completion of its Wimberly No. 5 Well, 990 feet from the North line and 2310 feet from the West line of Section 24, Township 25 South, Range 37 East, Lea County, New Mexico, in such a manner as to permit the production of oil from the Justis-Ellenburger Pool and oil from an undesignated Montoya pool through parallel strings of tubing.

CONTINUED CASE

This case will be heard before Daniel S. Nutter, Examiner:

CASE 1478: In the matter of the application of R. Olsen Oil Company for a non-standard gas proration unit. Applicant, in the above-styled cause, seeks an order establishing a 160-acre non-standard gas proration unit in the Tubb Gas Pool consisting of the N/2 NW/4, SW/4 NW/4, and NW/4 SW/4 of Section 25, Township 22 South, Range 37 East, Lea County, New Mexico.

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DOCKET: EXAMINER HEARING JULY 24, 1958

Oil Conservation Commission 9 a.m., Mabry Hall, State Capitol, Santa Fe, NM

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CASE 1487: Application of Ohio Oil Company for two non-standard gas proration units in the Tubb Gas Pool and two non-standard gas proration units in the Blinebry Gas Pool. Applicant, in the above-styled cause, seeks an order establishing 160-acre non-standard gas proration units in both the Blinebry Gas Pool and the Tubb Gas Pool, each consisting of the S/2 NE/4, NW/4 SE/4, and the NE/4 SW/4 of Section 24, Township 22 South, Range 37 East, Lea County, New Mexico, said units to be dedicated to its dually completed J. L. Muncy Well No. 2 in the NE/4 SW/4 of said Section 24. Applicant further seeks the establishment of 160-acre non-standard gas proration units in both the Blinebry Gas Pool and Tubb Gas Pool, each consisting of the E/2 SE/4, SW/4 SE/4, and the SE/4 SW/4 of said Section 24, said units to be dedicated to its J. L. Muncy Well No. 3 in the SE/4 SW/4 of said Section 24 and Well No. 1 in the SE/4 SE/4 of said Section 24 respectively.

CASE 1488: Application of Western Natural Gas Company for an oil-oil dual completion. Applicant, in the above-styled cause, seeks an order authorizing the dual completion of its Wimberly No. 5 Well, 990 feet from the North line and 2310 feet from the West line of Section 24, Township 25 South, Range 37 East, Lea County, New Mexico, in such a manner as to permit the production of oil from the Justis-Ellenburger Pool and oil from an undesignated Montoya pool through parallel strings of tubing.

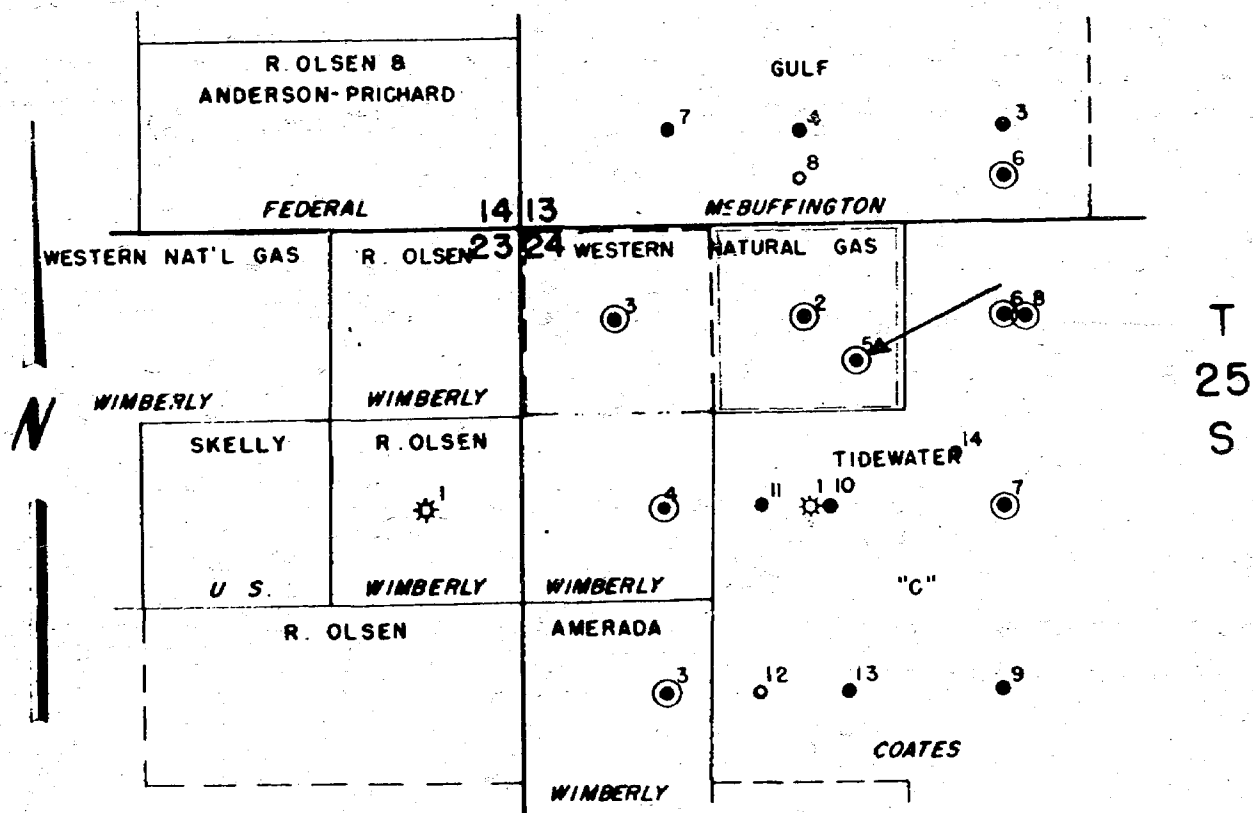
CONTINUED CASE

This case will be heard before Daniel S. Nutter, Examiner:

CASE 1478: In the matter of the application of R. Olsen Oil Company for a non-standard gas proration unit. Applicant, in the above-styled cause, seeks an order establishing a 160-acre non-standard gas proration unit in the Tubb Gas Pool consisting of the N/2 NW/4, SW/4 NW/4, and NW/4 SW/4 of Section 25, Township 22 South, Range 37 East, Lea County, New Mexico.

BEFORE EXAMINER UTZ
OIL CONSERVATION COMMISSION
Western Nat'l Gas EXHIBIT NO. 1
CASE NO. 1488

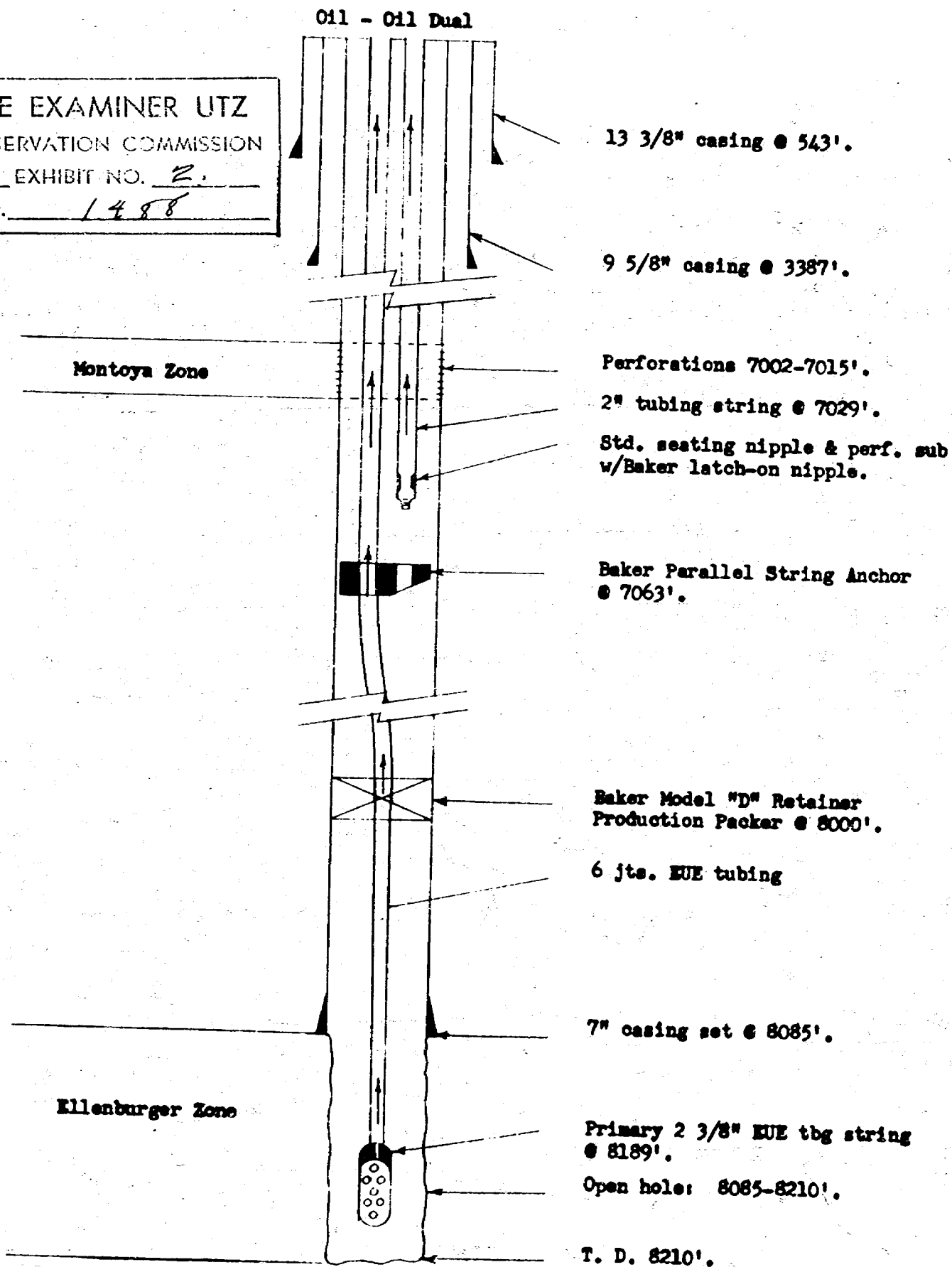
R 37 E



LEA COUNTY
NEW MEXICO

WESTERN NATURAL GAS COMPANY
WIMBERLEY #5
Dual Completion showing single-packer,
Full-Opening parallel string hookup,
Short string suspended

BEFORE EXAMINER UTZ
OIL CONSERVATION COMMISSION
West. Nat. EXHIBIT NO. 2.
CASE NO. 1488



BEFORE EXAMINER UTZ

NEW MEXICO

OIL CONSERVATION COMMISSION CONSERVATION COMMISSION

Application Exhibit No. 3

Sheet #1

4-1-56

EXHIBIT NO. 3

PACKER LEAKAGE TEST

CASE NO.

788.5

Operator WESTERN NATURAL GAS CO. Pool (Upper Completion) MONTOYA
Lease WIMBERLEY Well 5 Pool (Lower Completion) ELLENBURGER
Location: Unit C, S. 24, T25S, R37E, LEA County, N. M.

Pre-Test Shut-In

	Upper Completion	Lower Completion
Shut-in at (hour, date).....	11:00 PM (6-2-58)	11:00 PM (6-2-58)
Pressure stabilized at (hour, date).....	UNKNOWN	UNKNOWN
Length of time required to stabilize (hours).....	2 HR. MIN.	2 HR. MIN.

Flow Test No. 1

	Upper Completion	Lower Completion
Test commenced at (hour, date) <u>12:30 PM (JUNE 6, 1958)</u>		Choke size <u>20/64"</u>
Completion producing <u>MONTOYA</u>	Completion shut-in <u>ELLENBURGER</u>	
Stabilized pressure at beginning of test.....	650 CHART psi	1175 CHART psi
Maximum pressure during test.....	650 psi	1175 psi
Minimum pressure during test.....	350 psi	1175 psi
Pressure at end of test.....	590 psi	1175 psi
Maximum pressure change during test.....	300 psi	NONE psi
Oil flow rate during test: <u>634</u> BOPD based on <u>52.80</u> BO in		<u>2</u> hours.
Gas flow rate during test: <u>514.48</u> MCFPD based on <u>42.874</u> MCF in		<u>2</u> hours.

Mid-Test Shut-In

	Upper Completion	Lower Completion
Shut-in at (hour, date).....	7:00 PM (6-6-58)	11:00 PM (6-2-58)
Pressure stabilized at (hour, date).....	8:30 AM (6-7-58)	UNKNOWN
Length of time required to stabilize (hours).....	13 1/2	2 HR. MIN.

Flow Test No. 2

	Upper Completion	Lower Completion
Test commenced at (hour, date) <u>11:30 AM (JUNE 7, 1958)</u>		Choke size <u>28/64"</u>
Completion producing <u>ELLENBURGER</u>	Completion shut-in <u>MONTOYA</u>	
Stabilized pressure at beginning of test.....	460 CHART psi	1140 CHART psi
Maximum pressure during test.....	460 psi	1140 psi
Minimum pressure during test.....	460 psi	575 psi
Pressure at end of test.....	460 psi	1050 psi
Maximum pressure change during test.....	NONE psi	565 psi
Oil flow rate during test: <u>480</u> BOPD based on <u>39.96</u> BO in		<u>2</u> hours.
Gas flow rate during test: <u>888.07</u> MCFPD based on <u>74.006</u> MCF in		<u>2</u> hours.

Test performed by COLEMAN PETR. ENGR. CO. Title AGENTWitnessed by MR. COOK Title DISTRICT ENGINEERREMARKS: TEST RESULTS INDICATE THAT THE TWO PRODUCING ZONES ARE SEPARATED PROPERLY.

NOTE: Recording gauge pressure charts, test data sheet, and a graphic depiction of all phases of the test shall be submitted with this report.

AFFIDAVIT:

I HEREBY CERTIFY that all conditions prescribed by Oil Conservation Commission of the State of New Mexico for this packer leakage test were complied with and carried out in full, and that all dates and facts set forth in this form and all attached material are true and correct.

Joe A. Coleman For WESTERN NATURAL GAS COMPANY
(Representative of Company Making Test) (Company Making Test)

SWORN TO AND SUBSCRIBED before me this the 17th day of JULY, 19 58

Norothy S. Ritz
Notary Public in and for the County of LEA
State of NEW MEXICO

(OVER) COMMISSION EXPIRES 4-23-60

NEW MEXICO
OIL CONSERVATION COMMISSION

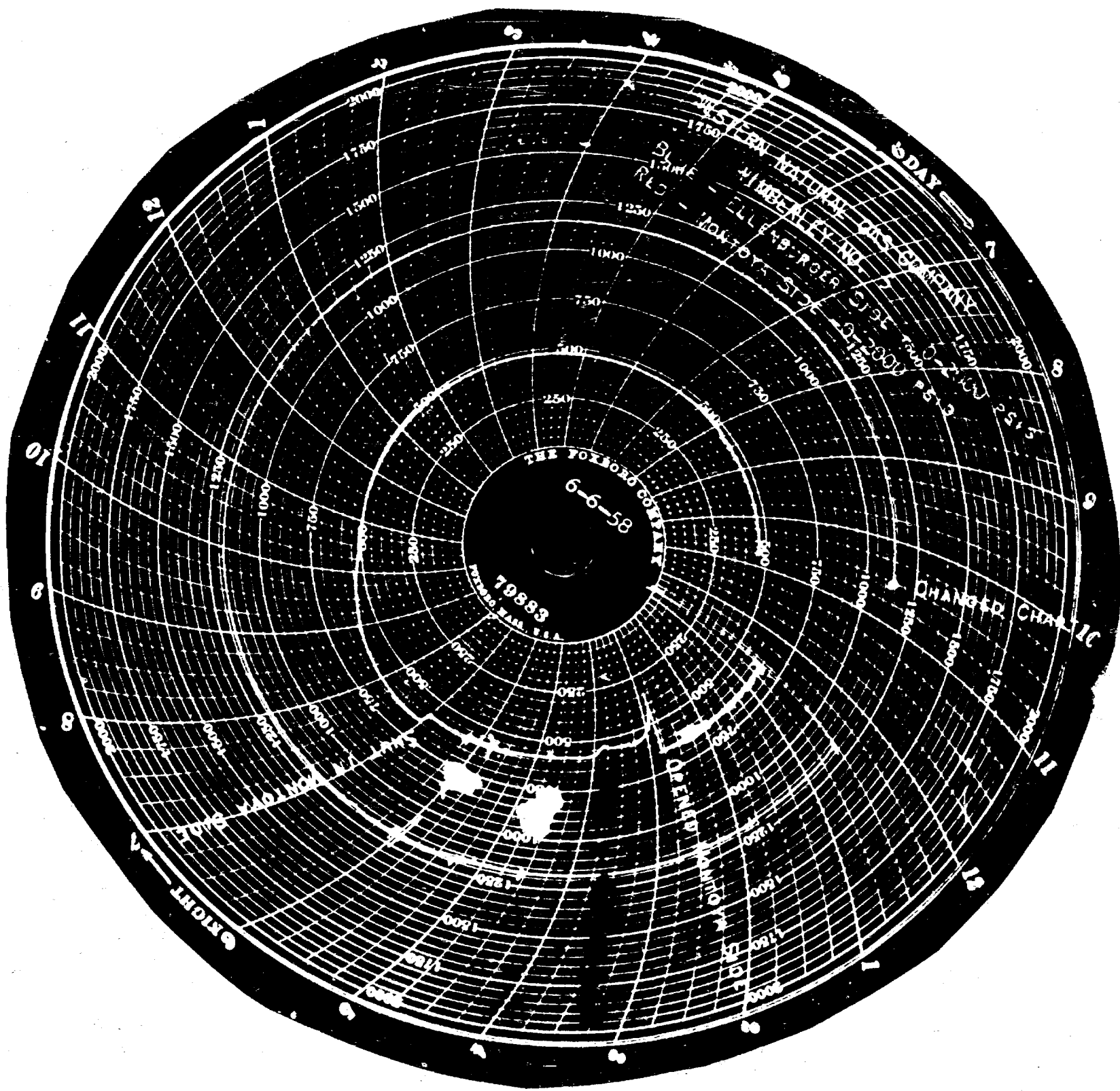
PACKER LEAKAGE TEST

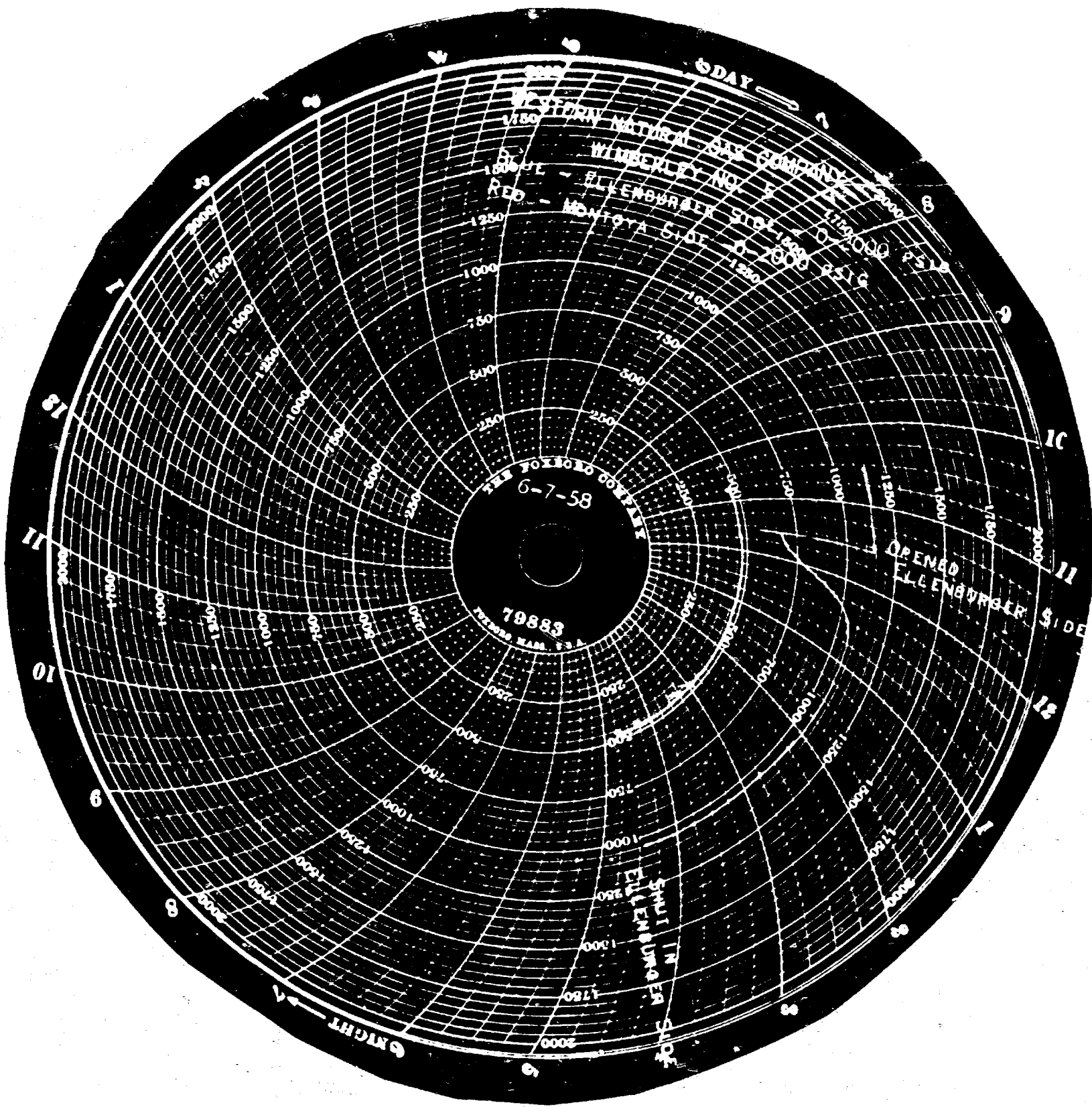
OPERATOR WESTERN NATURAL GAS COMPANY
LEASE NAME WIMBERLEY WELL NO. No. 5
LOCATION UNIT C, SEC. 24, 25S, 37E COUNTY LEA

TEST DATA SHEET

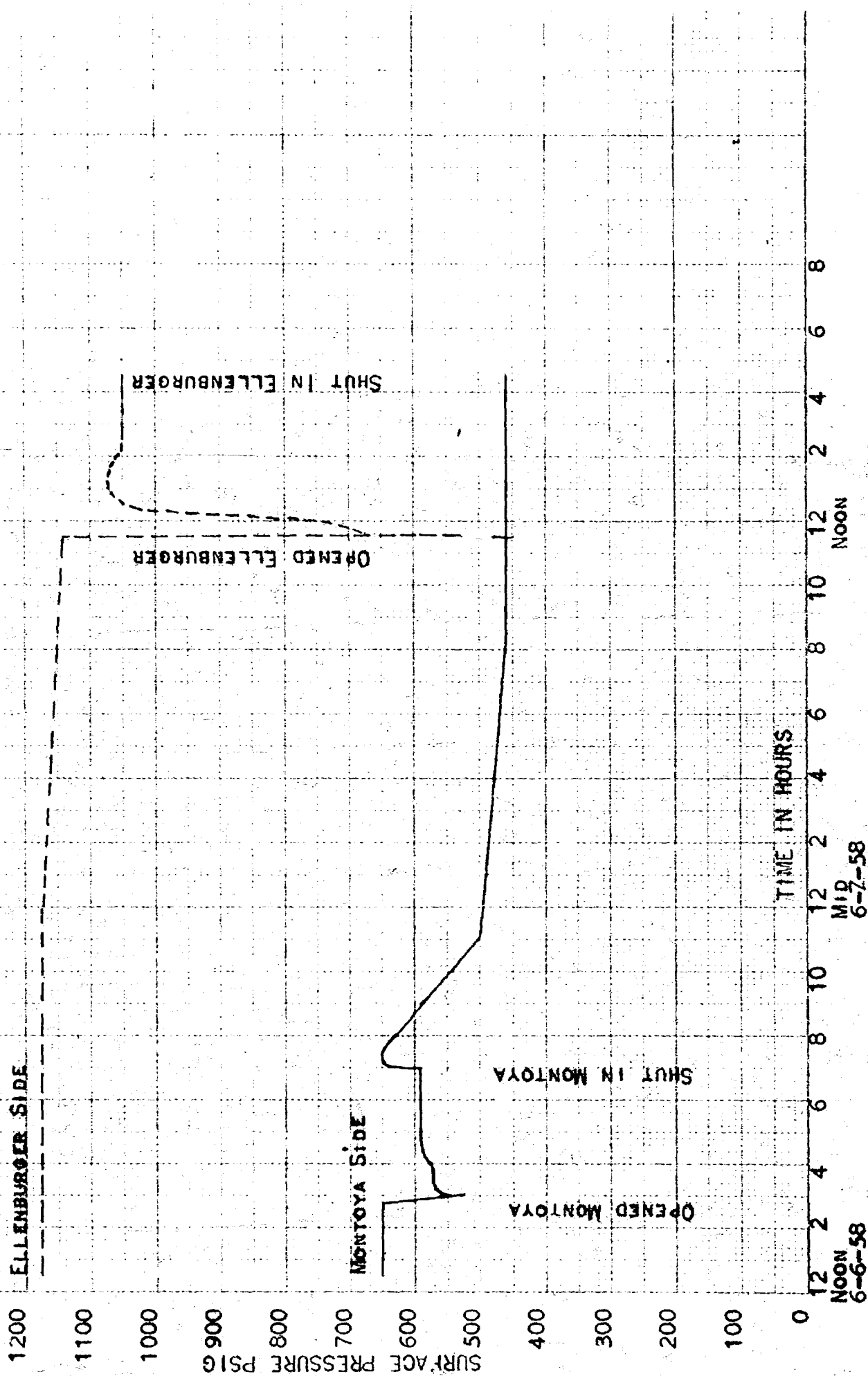
Time	ELLENBURGER Sealing Pressure	MONTROYA Testing Pressure	Remarks
	(6-2-58)		
11:00 PM	-	-	BOTH SIDES SHUT IN FOR PACKER LEAKAGE TEST
	(6-6-58)		
12:30 PM	1193 DWT	682 DWT	HOOKEED UP METER AND STARTED STABILIZED
			SHUT IN PERIOD
2:45	1193	682	FINISHED 2 HOUR STABILIZED PERIOD AND
			OPENED MONTROYA SIDE FOR FLOW TEST
5:00	1193	593	STARTED 2 HOUR STABILIZED FLOW PERIOD
6:00	1193	593	
7:00	1193	593	FINISHED 2 HOUR STABILIZED FLOW PERIOD AND
			SHUT MONTROYA SIDE IN FOR BUILD UP
	(6-7-58)		
8:30 AM	1152	464	STARTED 2 HOUR STABILIZED SHUT IN PERIOD

Time	ELLENBURGER Casing Pressure	MONTOKA Tubing Pressure	Remarks
	(6-2-58)		
11:00 PM	-	-	BOTH SIDES SHUT IN FOR PACKER LEAKAGE TEST
	(6-6-58)		
12:30 PM	1193 DWT	682 DWT	HOOKEE UP METER AND STARTED STABILIZED SHUT IN PERIOD
2:45	1193	682	FINISHED 2 HOUR STABILIZED PERIOD AND OPENED MONTOKA SIDE FOR FLOW TEST
5:00	1193	593	STARTED 2 HOUR STABILIZED FLOW PERIOD
6:00	1193	593	
7:00	1193	593	FINISHED 2 HOUR STABILIZED FLOW PERIOD AND SHUT MONTOKA SIDE IN FOR BUILD UP
	(6-7-58)		
8:30 AM	1152	464	STARTED 2 HOUR STABILIZED SHUT IN PERIOD
10:30	1152	464	
11:30	1152	464	FINISHED 3 HOUR STABILIZED SHUT IN PERIOD AND OPENED ELLENBURGER SIDE FOR FLOW TEST
2:30 PM	1061	464	STARTED 2 HOUR STABILIZED FLOW TEST
3:30	1061	464	
4:30	1061	464	FINISHED 2 HOUR STABILIZED FLOW PERIOD AND SHUT ELLENBURGER SIDE IN
			TEST COMPLETE





WESTERN NATURAL GAS COMPANY
 WIMBERLEY, WELL NO. 5
 JUSTICE - MONTOKA - ELLENBURGER (DUAL)
 LEA COUNTY, NEW MEXICO
 SURFACE PRESSURE VS TIME CURVE





COLEMAN PETROLEUM ENGINEERING COMPANY

BEFORE EXAMINER **UTZ**

OIL CONSERVATION COMMISSION

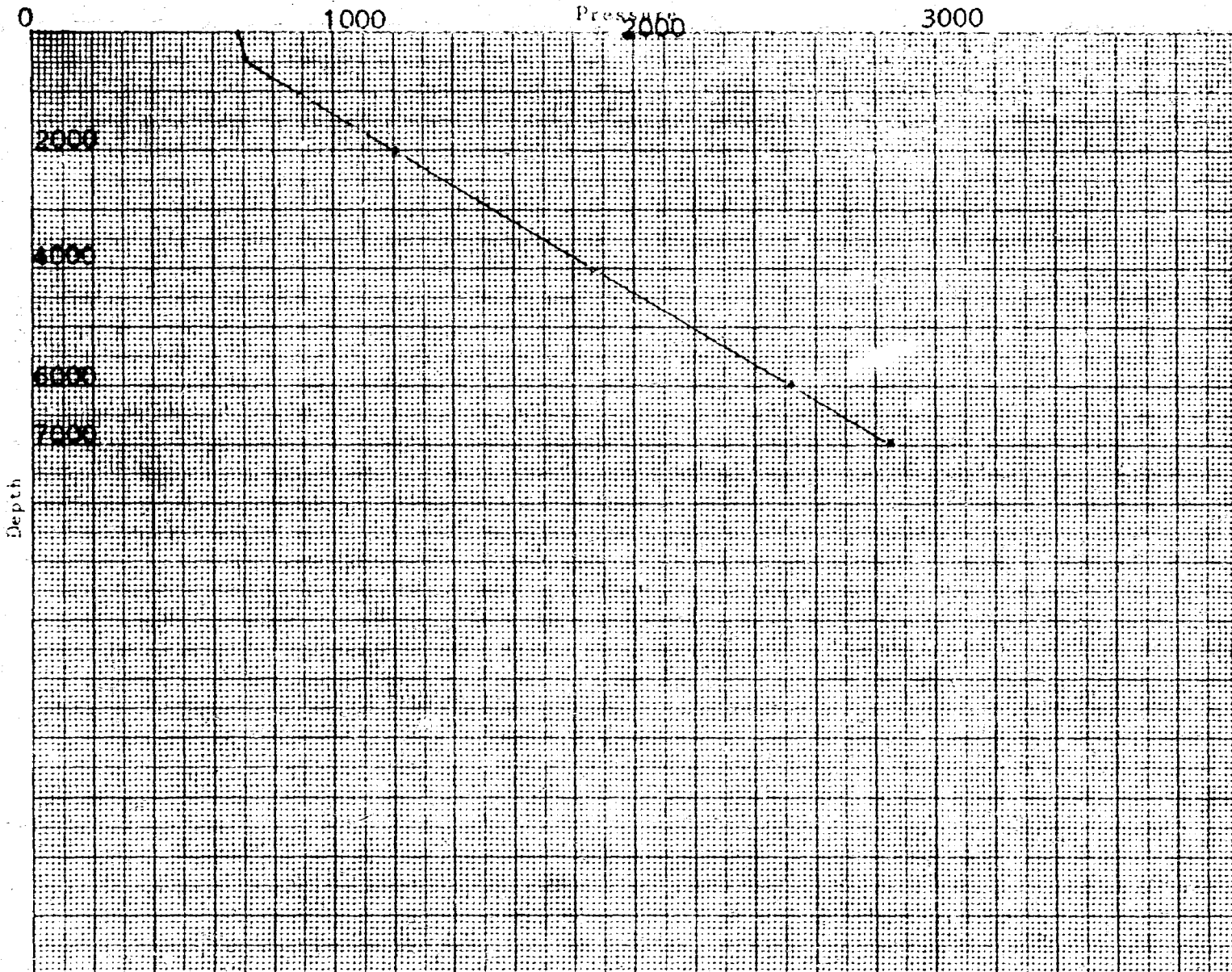
EXHIBIT NO. **4**

CASE NO. **1458**

OPERATOR **WESTERN NATURAL GAS COMPANY**
FIELD **JUSTICE** FORMATION **LOHTEYA**
LEASE **WIMBERLEY** WELL # **5**
COUNTY **LEA** STATE **NEW MEXICO**
DATE **6-6-58** TIME **10:00 AM**
Status **SHUT IN** Test depth **7000**
Time S. I. **83 Hrs** Last test date **INITIAL**
Tub Pres. **682 DWT** BHP last test **-**
Cas. Pres. **-** BHP change **-**
Elev. **3078** Fluid top **450'**
Datum **-3940** Water top **NONE**
Temp. @ **110°** Run by **CLAND**
Cal. No. **M-6-6** Chart No. **2**

Depth	Pressure	Gradient
0	682	-
2000	1200	.262
4000	1865	.329
6000	2523	.329
7000	2853	.330
7018(-3940)	2859*	

* EXTRAPOLATED PRESSURE





COLEMAN PETROLEUM ENGINEERING COMPANY

OPERATOR WESTERN NATURAL GAS COMPANY
FIELD JUSTICE FORMATION ELLENBURGER
LEASE WIMBERLEY WELL # 5
COUNTY LEA STATE NEW MEXICO
DATE 6-6-58 TIME 9:00 AM
Status SHUT IN Test depth 8150'
Time S. 1.32 HRS Last test date INITIAL
Tub Pres. 1193 DWT BHP last test -
Gas. Pres. - BHP change -
Elev. 3073 Fluid top 1125'
Datum -5100 Water top NONE
Temp. @ 122° Run by BLAND
Cpl. No. M-6-6 Chart No. 1

BOTTOM HOLE

BEFORE EXAMINER UTZ

OIL CONSERVATION COMMISSION HOBBS, NEW MEXICO

EXHIBIT NO. 5

CASE NO. 1488

0	1193	-
2000	1481	.144
4000	2050	.285
6000	2622	.286
8000	3194	.286
8150	3237	.287
8178 (-5100)	3245*	

* EXTRAPOLATED PRESSURE

