

CASE 2311: Appli. of CONTINENTAL
for an oil-oil of its BRITT B-15
WELL NO. 10 - Lea County, N.M.

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2311

plication, Transcript,
all Exhibits, Etc.

NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

RECEIVED
HEARING

5-1-61

APPLICATION FOR MULTIPLE COMPLETION

Operator Continental Oil Company		County Soc	Date May 1, 1961
Address 325 Petroleum Building, Roswell, N.M.		Lease 1 R100 2-15	Well No. 10
Location of Well	Unit F	Section 15	Township 35S 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.:

3. The following facts are submitted:	Upper Zone	Intermediate Zone	Lower Zone
a. Name of Pool and Formation	Undesignated Blinco		Monument Tube
b. Top and Bottom of Pay Section (Perforations)	5752-5802		6420-6534
c. Type of production (Oil or Gas)	OIL		OIL
d. Method of Production (Flowing or Artificial Lift)	Flowing		Flowing

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

- YES 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.
- YES 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.
- NO 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.*
- YES 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.

Ohio Oil Company, The, D. K. Spellman, Box 552, Midland, Texas

Pan American Petr. Corp., Box 68, Hobbs, New Mexico

Skelly Oil Company, Box 33, Hobbs, New Mexico

Amerada Petr. Corp., R. S. Christie, Box 2040, Tulsa, Oklahoma

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

CERTIFICATE: I, the undersigned, state that I am the Division Superintendent of the Continental 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.

W. A. Mead
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 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.

GOVERNOR
EDWIN L. MECHEM
CHAIRMAN

State of New Mexico
Oil Conservation Commission



P. O. BOX 871
SANTA FE

July 7, 1961

LAND COMMISSIONER
E. S. JOHNSON
MEMBER

Re: CASE NO. 2311

ORDER NO. B-2015

APPLICANT:

Continental Oil Company

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

Dear Sir:

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

Very truly yours,

A. L. Porter, Jr.

A. L. PORTER, Jr.
Secretary-Director

if/

Carbon copy of order also sent to:

Hobbs OCC X
Artesia OCC
Aztec OCC

OTHER

**BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO**

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

**CASE No. 2311
Order No. R-2015**

**APPLICATION OF CONTINENTAL OIL
COMPANY FOR AN OIL-OIL DUAL
COMPLETION IN AN UNDESIGNATED
BLINER POOL AND IN THE MONUMENT-
TUBE POOL, LEA COUNTY, NEW MEXICO.**

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on June 22, 1961, at Santa Fe, New Mexico, before Elvis A. Uts, 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 7th day of July, 1961, the Commission, a quorum being present, having considered the application, the evidence adduced, and the recommendations of the Examiner, Elvis A. Uts, 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, Continental Oil Company, proposes to complete its Britt B-15 Well No. 10, located in the SE/4 NW/4 of Section 15, Township 20 South, Range 37 East, NUPM, Lea County, New Mexico, as a dual completion (conventional) in such a manner as to permit the production of oil from an undesignated Blinberry pool and the production of oil from the Monument-Tube Pool through parallel strings of 2-inch tubing, separation of zones to be with a Baker Model N Packer set at a depth of 6351 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 neither cause waste nor impair correlative rights.

-2-

CASE No. 2311
Order No. R-2015

IT IS THEREFORE ORDERED:

That the applicant, Continental Oil Company, is hereby authorized to complete its Britt B-15 Well No. 10, located in the SE/4 NW/4 of Section 15, Township 20 South, Range 37 East, NEPM, Lea County, New Mexico, as a dual completion (conventional) in such a manner as to permit the production of oil from an undesignated Blinberry pool and the production of oil from the Monument-Tubb Pool through parallel strings of 2-inch tubing, separation of zones to be accomplished with a Baker Model N Packer set at a depth of 6351 feet.

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

PROVIDED FURTHER, That the operator shall take packer-leakage tests upon completion and annually thereafter during the Gas-Oil Ratio Test Period for the Monument-Tubb Pool, and at such other times as the Secretary-Director of the Commission may prescribe.

IT IS FURTHER ORDERED:

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

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

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION



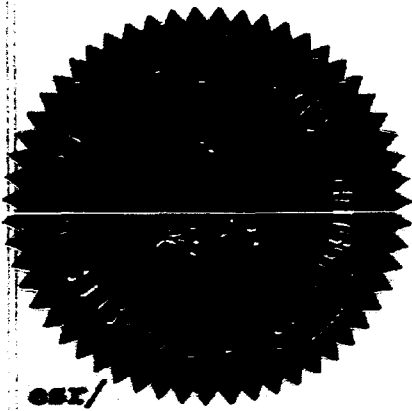
EDWIN L. NECHEM, Chairman



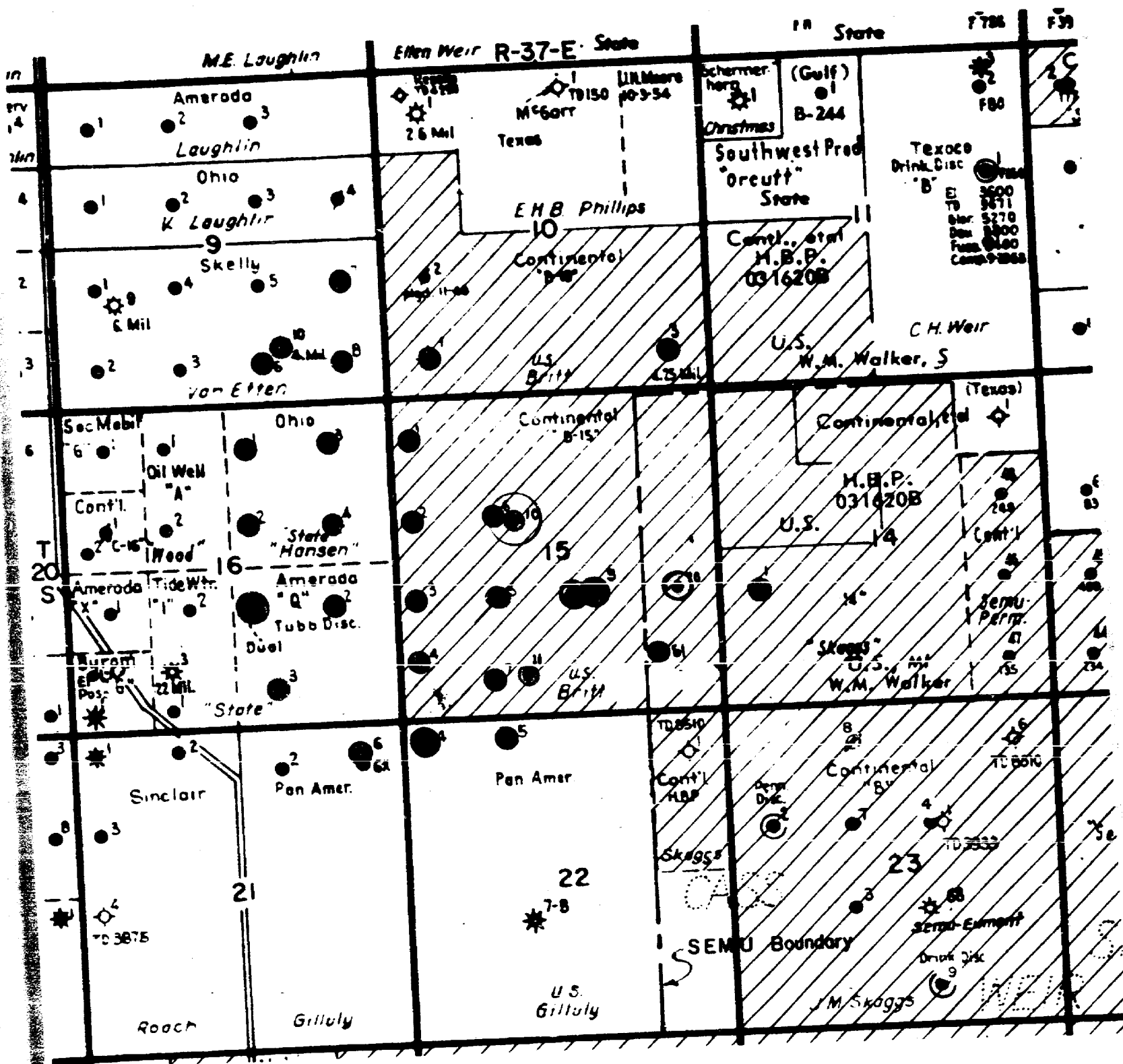
E. S. WALKER, Member



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



est/



OWNERSHIP MAP - BRITT B-15 AREA

Scale: 1"=2000'

BEFORE EXAMINER UTZ
OIL CONSERVATION COMMISSION
Appl. EXHIBIT NO. 2311
CASE NO. Ex 7601

LEGEND

- Cass Well
- Eumont Well
- Monument Well
- Monument-Tubb Well
- Weir-Tubb Well
- Weir (Drinkard Well)

CONTINENTAL OIL CO.

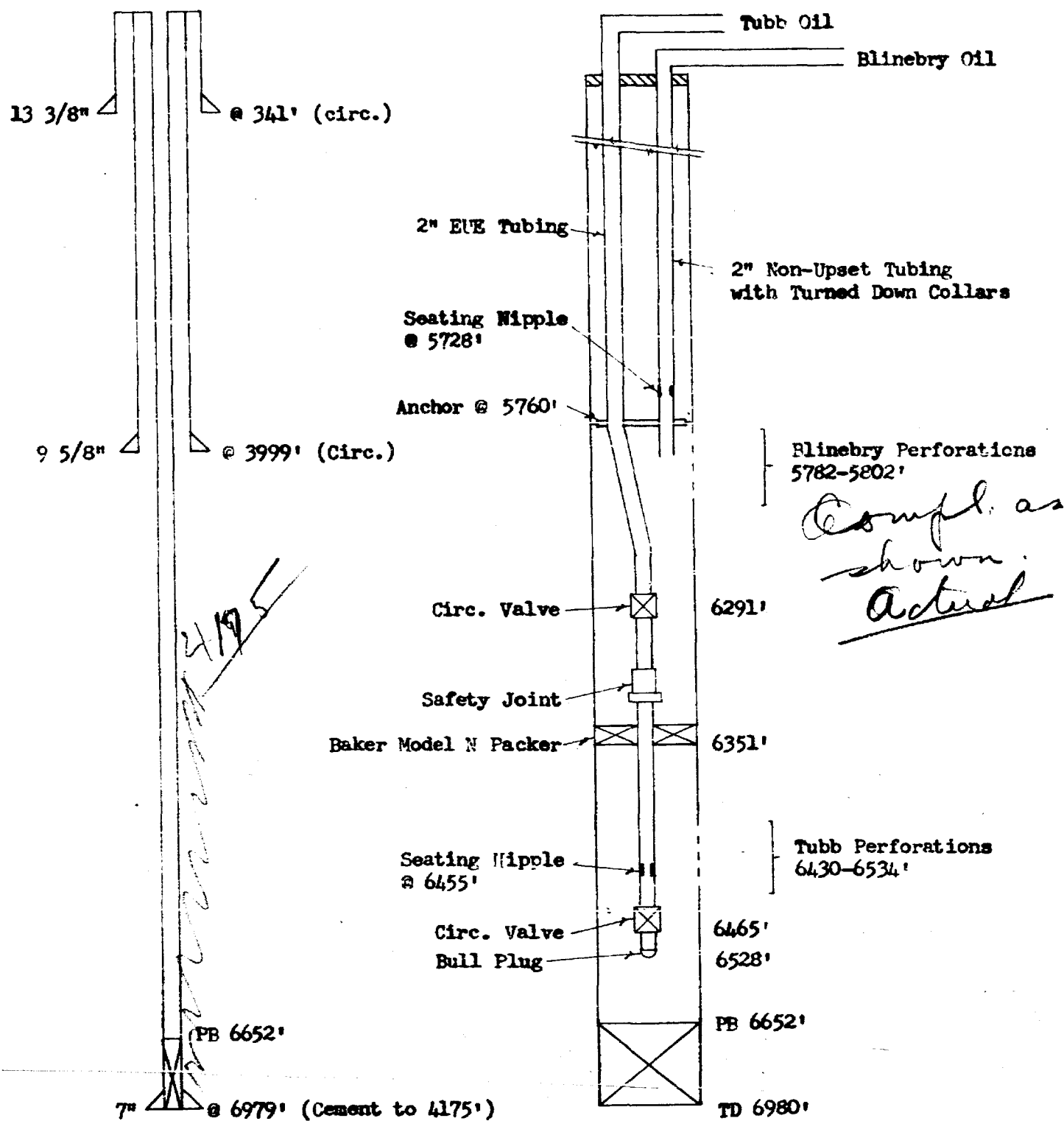
MAY '61

CONTINENTAL OIL COMPANY BEFORE EXAMINER UTZ
 OIL CONSERVATION COMMISSION
 Britt B-15 No. 10
 PROPOSED DUAL COMPLETION

EXHIBIT NO. 2
 CASE NO. 2311

CASING RECORD

DUAL COMPLETION EQUIPMENT



NEW MEXICO OIL CONSERVATION COMMISSION
SOUTHEAST NEW MEXICO PACKER LEAKAGE TEST

REG. (4) WDH FILE
Enc.

Operator Continental Oil Company			Lease Bratt B-15			Well No. 10		
Location of Well	Unit F	Sec 15	Twp 20	Rge 37	County Lee			
Name of Reservoir or Pool			Type of Prod (Oil or Gas)	Method of Prod Flow, Art Lift	Prod. Medium (Tbg or Csg)		Choke Size	
Upper Comp	Undesignated Blinebry		Oil	Flow	Tbg.		7/64	
Lower Comp	Mormant Tubb		Oil	Flow	Tbg.		10/64	

FLOW TEST NO. 1

Both zones shut-in at (hour, date): 9:30 A.M. 6-9-61

Well opened at (hour, date): 9:30 A.M. 6-13-61

	Upper Completion	Lower Completion
Indicate by (X) the zone producing.....		X
Pressure at beginning of test.....	1319	1450
Stabilized? (Yes or No).....	No	No
Maximum pressure during test.....	1327	1450
Minimum pressure during test.....	1319	1348
Pressure at conclusion of test.....	1327	1348
Pressure change during test (Maximum minus Minimum).....	8	102
Was pressure change an increase or a decrease?.....	Inc.	Dec.
Well closed at (hour, date): 9:30 A.M. 6-14-61	Total Time On Production 24 Hours	
Oil Production During Test: 36 bbls; Grav. 41.0	Gas Production During Test 72.3 MCF; GOR 2.175	
Remarks		

FLOW TEST NO. 2

Well opened at (hour, date): 9:30 A.M. 6-15-61

	Upper Completion	Lower Completion
Indicate by (X) the zone producing.....	X	
Pressure at beginning of test.....	1342	1504
Stabilized? (Yes or No).....	No	No
Maximum pressure during test.....	1342	1504
Minimum pressure during test.....	499	1457
Pressure at conclusion of test.....	499	1457*
Pressure change during test (Maximum minus Minimum).....	843	47
Was pressure change an increase or a decrease?.....	Dec.	Dec.
Well closed at (hour, date): 9:30 A.M. 6-16-61	Total time on Production 24 Hours	
Oil Production During Test: 55 bbls; Grav. 38.8	Gas Production During Test 7.94 MCF; GOR 441	
Remarks *Fluid loading.		

I hereby certify that the information herein contained is true and complete to the best of my knowledge.

Approved _____ 19
New Mexico Oil Conservation Commission

Operator Continental Oil Company

By Signed: V. G. McALISTER

By _____

Title District Superintendent

SOUTHEAST NEW MEXICO PACKER LEAKAGE TEST INSTRUCTIONS

1. A packer leakage test shall be commenced on each multiple completed well within seven days after actual completion of the well and annually thereafter as prescribed by the order authorizing the multiple completion. Such tests shall also be commenced on all multiple completions within seven days following recompletion and/or chemical or fracture treatment, and whenever remedial work has been done on a well during which the packer or the tubing have been disturbed. Tests shall also be taken at any time that communication is suspected or when requested by the Commission.

2. At least 72 hours prior to the commencement of any packer leakage test, the operator shall notify the Commission in writing of the exact time the test is to be commenced. Offset operators shall also be so notified.

3. The packer leakage test shall commence when both zones of the dual completion are shut-in for pressure stabilization. Both zones shall remain shut-in until the well-head pressure in each has stabilized and for a minimum of two hours thereafter, provided however, that they need not remain shut-in more than 24 hours.

4. For Flow Test No. 1, one zone of the dual completion shall be produced at the normal rate of production while the other zone remains shut-in. Such test shall be continued until the flowing wellhead pressure has become stabilized and for a minimum of two hours thereafter, provided however, that the flow test need not continue for more than 24 hours.

5. Following completion of Flow Test No. 1, the well shall again be shut-in, in accordance with Paragraph 2 above.

6. Flow Test No. 2 shall be conducted even though no leak was indicated during Flow Test No. 1. Procedure for Flow Test No. 2 is to be the same as for Flow Test No. 1 except that the previously produced zone shall remain shut-in while the previously shut-in zone is produced.

7. All pressures, throughout the entire test, shall be continuously measured and recorded with recording pressure gauges, the accuracy of which must be checked with a deadweight tester at least twice, once at the beginning and once at the end of each flow test.

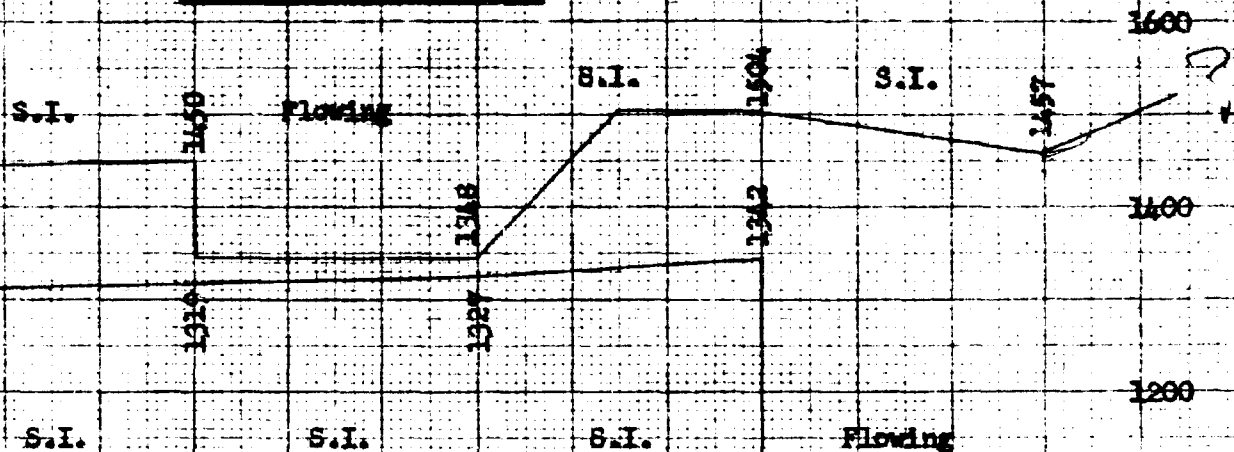
8. The results of the above-described tests shall be filed in triplicate within 15 days after completion of the test. Tests shall be filed with the appropriate District Office of the New Mexico Oil Conservation Commission on Southeast New Mexico Packer Leakage Test Form Revised 11-1-58, together with the original pressure recording gauge charts with all the deadweight pressures which were taken indicated thereon. In lieu of filing the aforesaid charts, the operator may construct a pressure versus time curve for each zone of each test, indicating thereon all pressure changes which may be reflected by the gauge charts as well as all deadweight pressure readings which were taken. If the pressure curve is submitted, the original chart must be permanently filed in the operator's office. Form C-116 shall also accompany the Packer Leakage Test Form when the test period coincides with a gas-oil ratio test period.

The form consists of a large grid of graph paper, divided into four main quadrants by a vertical and a horizontal line. Each quadrant contains a grid of small squares, suitable for plotting pressure versus time curves as described in the instructions.

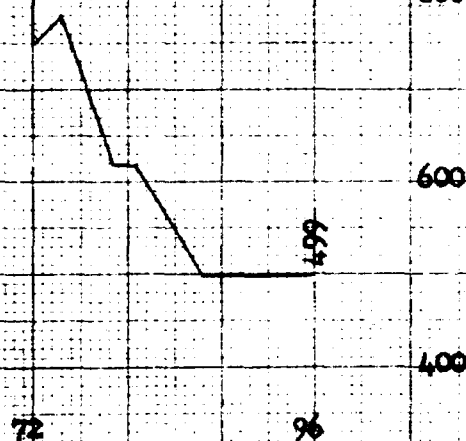
NO. 310 20 DIVISIONS PER INCH BOTH VARS. 150 BY 200 DIVISIONS
 GLEN BUCK COMPANY, INC. NEWBURY, MASSACHUSETTS
 PRINTED IN U.S.A.

PACKER LEAKAGE TEST
 CONTINENTAL OIL COMPANY
 Britt B-15 No.10
 Unit F, Sec.15-208-978
 Oil-Oil Dual
 June 9-16, 1961.

LOWER TUBING - TUBE OIL



UPPER TUBING - BLIND OIL



TIME - HOURS

PRESSURE - PSI

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ALBUQUERQUE, NEW MEXICO

PHONE CH 3-6691

PAGE

BEFORE THE
OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
June 28, 1961

CASE 2311



BEFORE THE
OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
June 28, 1961

EXAMINER HEARING

IN THE MATTER OF:

Application of Continental Oil Company for an
oil-oil dual completion, Lea County, New Mexico.
Applicant, in the above-styled cause, seeks per-
mission to complete its Britt B-15 Well No. 10,
located in Unit F, Section 15, Township 29 South,
Range 37 East, Lea County, New Mexico, as a dual
completion (conventional) in an undesignated
Blinebry Pool and in the Monument-Tubb Pool, the
production of oil from each pool to be through
parallel strings of 2-inch tubing.

Case
2311

BEFORE:

Elvis A. Utz, Examiner

TRANSCRIPT OF HEARING

MR. UTZ: Call Case 2311.

MR. MORRIS: Application of Continental Oil Company for
an oil-oil dual completion, Lea County, New Mexico.

MR. KELLAHIN: If the Commission please, Jason A.
Kellahin of Kellahin & Fox are representing the applicant; and we
will have one witness, Mr. John A. Queen.

(Witness sworn.)

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

JOHN A. QUEEN,

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

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ALBUQUERQUE, NEW MEXICO



DIRECT EXAMINATION

BY MR. KELLAHIN:

Q Will you state your name, please.

A John A. Queen.

Q By whom are you employed and in what position?

A Continental Oil Company, Division Engineer, New Mexico Division.

Q Have you previously testified before the Oil Commission as a petroleum engineer and had your qualifications made a matter of record?

A I have, and they have.

MR. KELLAHIN: Are the witness' qualifications acceptable?

MR. UTZ: Yes, sir; they are.

Q (By Mr. Kellahin) Mr. Queen, are you familiar with the application of Continental Oil Company in Case No. 2311?

A Yes, sir; I am.

Q Would you state what is proposed in this application?

A This is an application of Continental Oil Company for an oil-oil dual for its Britt B-15 Well No. 10, located in Unit F of Section 15, Township 20 South, Range 37 East, dual completion to be in a unit designated E Linebry Pool and Monument-Tubb Pool.

(Marked Applicant's Exhibits Nos. 1 through 4, for Identification.)

Q (By Mr. Kellahin) Mr. Queen, referring to what has been marked as Exhibit No. 1, would you discuss the information shown

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on that exhibit?

A This is plat of the area in which the Britt B-15 lease is located. The plat shows the ownership of the various leases and also the formation from which the various wells are producing within the vicinity of the Britt B-15 Lease.

Q Now, will you discuss briefly the history of this well?

A Yes, sir. The well was originally completed in the Monument-Tubb Pool as a Tubb oil well flowing in excess of top allowable, and unsuccessfully attempted to be completed in the Drinkard Formation during its initial completion. The well was subsequently plugged back, and the Blinebry Formation was tested and a discovery of new oil in a new reservoir was completed.

Q Then, are we to understand that the Blinebry Zone in this area is a new discovery?

A Yes, sir; it is.

Q Is that the reason that prior approval of the dual completion was not sought?

A That is correct, sir. The Blinebry Pool is also undesignated at this time.

Q Referring to what has been marked as Exhibit No. 2, would you discuss that exhibit?

A Exhibit No. 2 is a schematic of the dual completion as it actually is now installed. As previously stated, this recompletion was a new development, and it was impossible to know the type of production or if actual production existed in the Blinebry



Pool, so the recompletion was made without obtaining an approval for the dual completion -- this is, actual installation of the equipment.

Q And the installation is as it is shown on this exhibit?

A That is correct, sir.

Q Does the exhibit likewise show the casing program?

A Yes, sir; it does.

Q Is there anything unusual about this dual completion?

A No, sir. The equipment used meets all the standards required by administrative approval under Rule 112-A and as revised by Order No. R1957.

Q Now, referring to what has been marked as Exhibit No. 3, would you discuss the information on that exhibit?

A This exhibit is a log, section of a log showing the formation tops in perforated intervals of the various zones. And you will note, a Drinkard Formation has been squeezed off and is not open to communication in the well bore.

Q And does it show the completion in the Blinebry and the

A Tubb.

Q -- Tubb?

A Yes, sir; it does.

Q Now, the installation has already been made; is that correct?

A That is correct.

Q Have you run Packer Leakage Tests on it?



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A Yes, sir; we have.

Q Now, referring to Exhibit No. 4, would you discuss that exhibit.

A Exhibit No. 4 is a Packer Leakage Test as reported on the New Mexico Oil Conservation Commission Form, and indicates to me that there is no communications between zones within the well bore or behind the casing.

Q In your opinion, will this type of completion fully protect the producing horizons encountered in this well?

A Yes, sir; it will.

Q Both those which are open to the well bore and those which are encountered in the Drinkard Well which are not open?

A That is correct.

Q In your opinion, is this approval of this application in the interests of conservation -- and the prevention of waste?

A Yes, sir. In my opinion it is.

Q Were Exhibits 1 through 4 prepared by you or under your supervision?

A Yes, sir; they were.

MR. KELLAHIN: At this time, we would like to offer in evidence Exhibits 1 through 4.

MR. UTZ: Without objection, Exhibits 1 through 4 will be entered into the record.

(Marked Applicant's Exhibits Nos. 1 through 4, in evidence.)



MR. KELLAHIN: That completes the direct examination.

EXAMINATION

BY EXAMINER UTZ:

Q Mr. Queen, I noticed that when you quoted the upper completion you had forty-seven pounds decrease in the shutting zone; and I also note you attribute that to fluid. Now, what evidence do you have that it was loaded with fluid?

A The well had not stabilized in its bottom hole pressure, reservoir pressure at the time this test was made. And, this zone is an oil zone, and therefore an increase in fluid in the well bore will quite often cause a reduction in pressure above the fluid level.

Q On your second shut-in, it is actually quite a bit higher than the first shut-in. Why?

Well, first let me ask you: At the seventy-two hour point when you opened the Brinebry Zone, did you dead-weight the lower tubing, dead-weight the 1504 -- on the graph?

A Would you repeat that, please?

Q The 1504 as shown on your Tubb Oil on your second shut-in on the Tubb Zone, was that dead-weighted at the time you opened the Brinebry Oil?

A I believe that is correct, sir.

Q Then, how do you explain that pressure? From the time you shut in the well, the 1504 reading does not start to decrease until you opened the upper zone.

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A The cooling effect could have caused a decrease from 1504 to 1457 pressure. Is this the point that you are making, sir?

Q Yes sir.

A A cooling effect of the tubing could have caused such a decrease in pressure, expansion of gas.

Q Sub-oil is flowing through the tubing; is that correct?

A I believe that is correct, sir, but I would like to -- The tubing which is the lower zone -- This well is equipped with two strings of two-inch tubing.

Q And you actually attribute the 47 pounds decrease, not only --

A It could also be temperature.

Q You didn't shut in the well after the test? Take any more readings?

A No, sir; not that I know of.

Q Could you tell whether the pressure came up or not?

A No, sir; I can't answer the question. I don't know.

MR. UTZ: Are there any questions?

MR. MORRIS: No questions.

MR. UTZ: The witness may be excused. Are there other statements in this case?

The case will be taken under advisement.



STATE OF NEW MEXICO)
) ss
 COUNTY OF BERNALILLO)

I, MICHAEL HALL, Court Reporter, do hereby certify that the foregoing and attached transcript of proceedings before the New Mexico Oil Conservation Commission at Santa Fe, New Mexico, is a true and correct record to the best of my knowledge, skill and ability.

Michael Hall
 NOTARY PUBLIC

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 2311, heard by me on 6-28-1961.
Thomas A. Hall Examiner
 New Mexico Oil Conservation Commission

DEARNLEY-MEIER REPORTING SERVICE, Inc.

PHONE CH 3-6591

ALBUQUERQUE, NEW MEXICO

