

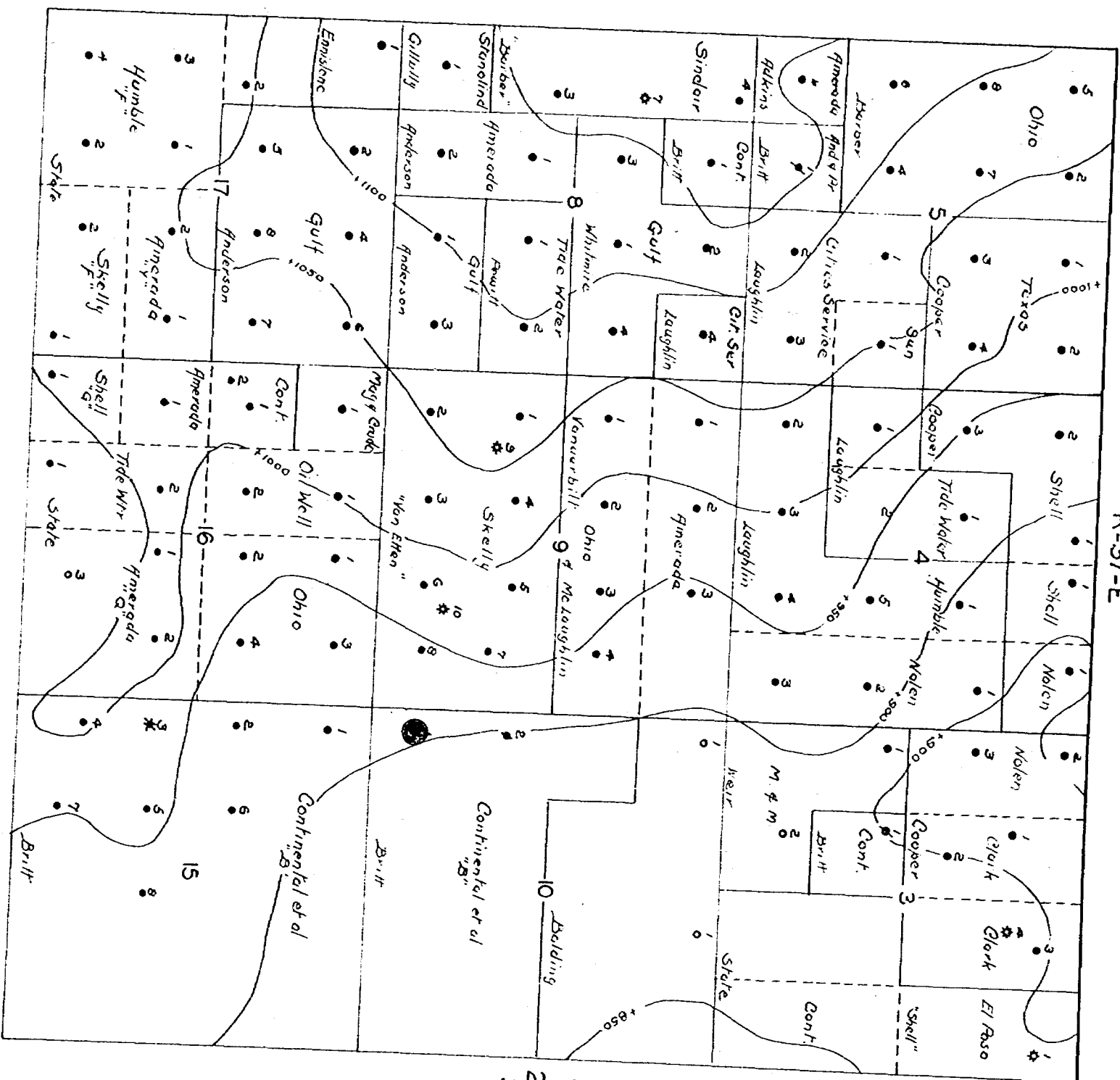
CASE 350: Continental Oil Co. application
for dual completion H. M. Britt B-10 No. 1
well, 660' from S and 330' from W line of
Sec. 10-208-37E (Oil - gas)

Case No.

350

Application, Transcript,
Small Exhibits, Etc.

R-37-E



T 20 S

CONTINENTAL OIL COMPANY
STRUCTURE MAP - MONUMENT AREA
CONTOURED ON TOP OF YATES

CONTOUR INT: 50'
N.M. DIST OFFICE

SCALE: 1" = 2000'
JULY 20, 1951.

EX. 10358



CONTINENTAL OIL COMPANY

Hobbs, New Mexico
March 4, 1952

TO: Mr. Bill Macy, Box 871, Santa Fe, New Mexico


SUBJECT: APPLICATION FOR DUAL COMPLETION (GAS-OIL) - CONTINENTAL
OIL COMPANY - H. M. BRITT B-10 NO. 1 - SECTION 10-20S-37E

Attached hereto is the additional information requested concerning the proposed dual completion of the Continental Britt B-10 No. 1, Monument Pool, Lea County, New Mexico.

It is proposed to dually complete the Britt B-10 No. 1 as an oil well in the Grayburg formation and as a gas well in the Queen formation. This well is presently producing from the interval 3679' to 3921' in the Grayburg. It is proposed to set a Baker Model "D" retainer production packer at approximately 3660' in the 5 1/2" casing which is set at 3679', and perforate the 5 1/2" casing from 3400' to 3550' opposite the Queen formation. Oil from the Grayburg is to be produced thru the tubing and gas from the Queen is to be produced thru the annulus between the tubing and 5 1/2" casing.

Also attached is an areal plat showing the respective locations of the Britt B-10 No. 1 and surrounding wells.

If any additional information is desired, please advise.


WILLIAM RANDOLPH
District Petroleum Engineer
New Mexico District
West Texas-New Mexico Division
Production Department

WR-BJE

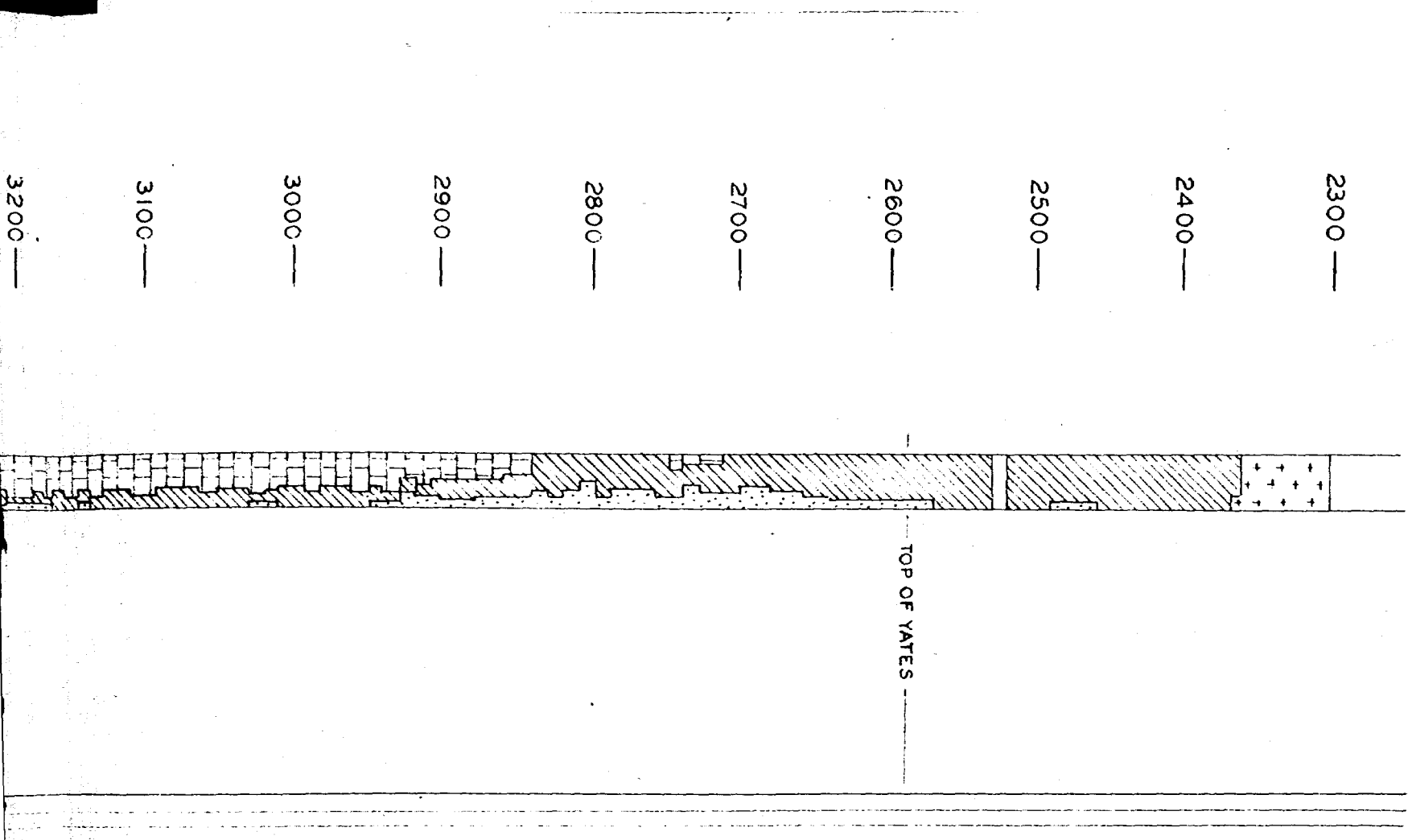
PIONEERING IN PETROLEUM PROGRESS SINCE 1875

CONTINENTAL OIL COMPANY

BRITT B-10 NO.1

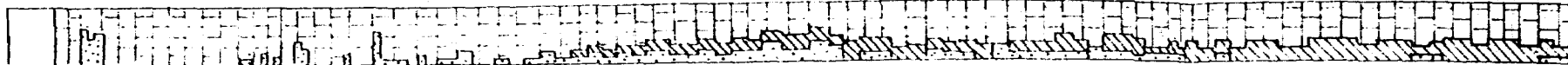
EL. 3565'

PROPOSED METHOD OF DUAL COMPLETION






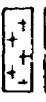
Ck #3
 Core # 350

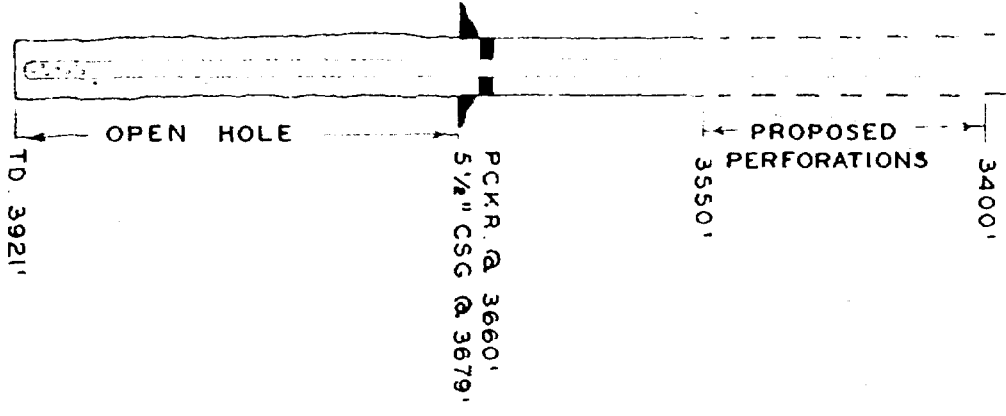
3000—
 3100—
 3200—
 3300—
 3400—
 3500—
 3600—
 3700—
 3800—
 3900—



TOP OF QUEEN

LEGEND

-  SAND
-  ANHYDRITE
-  DOLOMITE
-  SALT



OIL CONSERVATION COMMISSION

P. O. BOX 871
SANTA FE, NEW MEXICO

March 6, 1952

C
O
P
Y

Mr. C. C. Wilson
Continental Oil Company
Hobbs, New Mexico

Dear Sir:

RE: OOC Case 350

Your application for permission to dually complete your H. M. Britt B-10 No. 1 well, located 660 feet from the south and 330 feet from the west lines Sec. 10, Twp. 20 S, Rge. 37 E, has been set up as Case 350 and set for the regular March 20 hearing of the Commission.

Legal advertising has been properly issued.

We note your letter calling attention to typographical error in your letter of February 19, 1952. Actually, we noted the error and made such correction earlier, and it was correctly advertised.

Very truly yours,

W. B. Macey, Chief Engineer

WBM:mr



Case 350
(mark)

CONTINENTAL OIL COMPANY

Hobbs, New Mexico
February 19, 1952


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

Gentlemen:

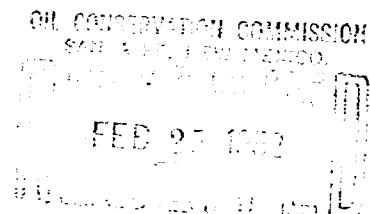
Continental Oil Company is the operator of the H. M. Britt B-10 No. 1 located 660' from the South and 330' from the West lines of Section 10, T. ^{20S}~~20N~~, R. 37 E, NMPM Lea County, New Mexico. Subject well is presently producing from the Grayburg formation in the Monument Pool.

Application is hereby requested for permission to dually complete the subject well as an oil well in the Grayburg and a gas well in the Queen formation.

Respectfully Submitted,
Continental Oil Company


C. C. WILSON
Supt., New Mexico District

CCW-GDF
CC: HM-o/3 File-2



PIONEERING IN PETROLEUM PROGRESS SINCE 1875

F 4-65-PC

DATE 3-4-52

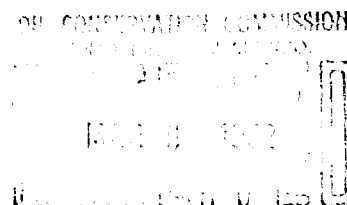
TO Mr. Bill Macey, Oil Con. Comm, Santa Fe,
N.M.

FROM William Randolph, Hobbs, N.M.

Would you please substitute the
attached application for the one
previously submitted dated 2-19-52.

There is a typographical error in
the well location and the second
paragraph is revised.

Thank you.



Hobbs, New Mexico
February 19, 1952

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

Gentlemen:

Continental Oil Company is the operator of the H. M. Britt
B-10 No. 1 located 660' from the South and 330' from the West lines
of Section 10, T. 20S, R. 37E, N.M.P.M., Lea County, New Mexico.
Subject well is presently producing from the Grayburg formation in
the Monument Pool.

A hearing is hereby requested for permission to dually
complete the subject well as an oil well in the Grayburg and a gas
well in the Queen formation.

Respectfully submitted,

CONTINENTAL OIL COMPANY

C. C. Wilson
By C. C. Wilson, Dist. Supt.
New Mexico District
West Texas New Mexico Divn.
Production Department

CCW-BJE

Hobbs, New Mexico
February 19, 1952


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

Gentlemen:

Continental Oil Company is the operator of the H. M. Britt B-10 No. 1 located 660' from the South and 330' from the West lines of Section 10, T. 20S, R. 37E, N.M.P.M., Lea County, New Mexico. Subject well is presently producing from the Grayburg formation in the Monument Pool.

A hearing is hereby requested for permission to dually complete the subject well as an oil well in the Grayburg and a gas well in the Queen formation.

Respectfully submitted,
CONTINENTAL OIL COMPANY

By  C. C. Wilson, Dist. Supt.
New Mexico District
West Texas New Mexico Divn.
Production Department

CCW-BJE

(SUBMIT IN TRIPLICATE)
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office 144, Denver

Lease No. 41421 (b)

Unit 144, Denver

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	SUBSEQUENT REPORT OF WATER SHUT-OFF.....
NOTICE OF INTENTION TO CHANGE PLANS.....	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....	SUBSEQUENT REPORT OF ALTERING CASING.....
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....	SUBSEQUENT REPORT OF REDRILLING OR REPAIR.....
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....	SUBSEQUENT REPORT OF ABANDONMENT.....
NOTICE OF INTENTION TO PULL OR ALTER CASING.....	SUPPLEMENTARY WELL HISTORY.....
NOTICE OF INTENTION TO ABANDON WELL.....	

Notice of Intention to Drill
Complete

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

U. S. Well U-30 No. 1

144, Denver April 11, 1932

Well No. 1 is located 660 ft. from N line and 330 ft. from W line of sec. 10

5 1/2 (if sec. and sec. no.) 206 (Twp.) 144 (Range) 144 (Meridian)

144, Denver (Field) 144 (County or Subdivision) 144, Denver (State or Territory)

The elevation of the derrick floor above sea level is 3545 ft.

DETAILS OF WORK

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

As per U.S.D.C.O. Order No. 8-140 dated 4-15-32, it is proposed to dually complete the subject well in such a manner as to permit production of oil from the Grayburg formation and gas from the Wash formation.

Proposed manner of dual completion is as follows:

- (1) Pull tubing and run Radioactivity survey.
- (2) Set Baker model "B" retainer production packer at approximately 3660' in the 5 1/2" casing which is set at 3679'.
- (3) Perforate and test Wash formation between 3400' and 3550'.
- (4) Run tubing set in end of "B" packer so as to prevent the co-mingling of gas or oil produced from other formation. Oil and gas from the Grayburg is to be produced thru the tubing and gas from the Wash is to be produced through the annulus between the tubing and 5 1/2" casing.

Your permission is requested to accomplish the dual completion as proposed.

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

Company Continental Oil Company

Address 144, Denver

By 144, Denver

Title District Superintendent

BEFORE THE
OIL CONSERVATION COMMISSION
STATE OF NEW MEXICO

In the Matter of Continental
Oil Company's application for
dual completion for its H.M.
Britt B-10 Well No. 1, Sec.
10-20S-37E.

No. 350

TRANSCRIPT OF HEARING

March 20, 1952

E. E. GREESON
ADA DEARNLEY
COURT REPORTERS
BOX 1302
PHONES 5-9422 AND 5-9546
ALBUQUERQUE, NEW MEXICO

(Mr. Graham reads the notice of publication.)

MR. COLLISTON: Appearances for Continental Oil Company: Paul N. Colliston, Houston, Texas, and Homer Dailey, Midland, Texas.

HOMER DAILEY, having been first duly sworn, testified as follows:

DIRECT EXAMINATION

BY MR. COLLISTON:

Q Mr. Dailey, will you state your name and position and by whom you are employed?

A Homer Dailey, division engineer with the Continental Oil Company, located at Midland, Texas.

Q And the Monument field is within the area under your supervision?

A That is correct.

Q You have testified before this Commission before as an expert witness?

A I have.

MR. COLLISTON: Are there questions as to Mr. Dailey's qualifications?

MR. SPURRIER: Mr. Dailey has been qualified before.

MR. COLLISTON: This is an application of the Continental Oil Company to dually complete its H. M. Britt B-10 No. 1 in Sec. 10, T. 20S- R. 37E, Lea County, N. M. This dual will be oil from the Graberg and gas from the Queen. I would like to introduce as Continental's Exhibit 1 the structure map of the

Monument area with the Britt B-10 well marked in red.

Q Mr. Dailey, will you explain and describe to the Commission what Continental Oil Company proposes to do, and how we intend to dually complete the Britt B-10 No. 1?

A The Continental Oil Company's Britt B-10 No. 1 is located 330 ft. from the west and 660 ft. from the south lines of Sec. 10, T. 20S-R. 37E, and was initially completed November 18, 1937, for an initial potential of 1,000 barrels of oil per day and 920 barrels of water per day, with a gas-oil ratio of 802 to 1. Production was obtained from the Grayberg formation between the $5\frac{1}{2}$ inch oil string set at 3,679 ft. with 425 sacks of cement, and the total depth of 3,921 ft. During approximately the past year a west offset has been completed, the Skelly Van Ett No. 10, as a gas well. The Continental Oil Company recompleted its Britt B-15 No. 3 approximately one mile south of the Britt B-10 No. 1 as a gas well from the Queen formation.

MR. COLLISTON: We would like to introduce as Continental's Exhibit No. 2 a compilation of well logs of Continental's Britt B-10 No. 1 and Continental's Britt B-15 No. 3.

A The Exhibit No. 2 shows our interpretation as to the top of the Queen in the Britt B-15 No. 3, and the Britt B-10 No. 1. It also shows the perforations in the Britt B-15 No. 3 from which we are producing gas. In addition it shows the proposed interval we are perforating in the Britt B-10 No. 1.

MR. COLLISTON: I would like to introduce as Applicant's Exhibit 3 the proposed method of dual completion of Continental Oil Company's Britt B-10 No. 1.

MR. SPURRIER: These exhibits 1 to 3 will be accepted without objection.

A It is proposed to dually complete the Britt B-10 No. 1 in the following manner: Pull the tubing and run radio activity logs, perforate and test the Queen formation after correlating with the Britt B-15 No. 3, set a Baker Model D production packer between the base of the perforations and the casing set, re-run the tubing and complete the well with the Grayberg oil producing through the tubing and the Queen gas through the annulus, and make the necessary communication tests. The Grayberg will be flowed through the tubing.

Q And the Queen gas will be produced in the annulus?

A Through the annulus, that is correct.

Q You are familiar with the general type of order the Commission issues in this type of case?

A That's right.

Q And are quite prepared to follow the provisions of that order with any test or such test as may be required by the Commission?

A That's right.

MR. COLLISTON: That is all we have.

MR. SPURRIER: Any questions of this witness? If not,

the witness may be excused. Do you have another witness?


MR. COLLISTON: That is all.

MR. SPURRIER: The case will be taken under advisement.

STATE OF NEW MEXICO
COUNTY OF BERNALILLO ss

I HEREBY CERTIFY That the foregoing transcript is a true
record of the matters therein contained.

DONE at Albuquerque, N. M., March 23, 1952


Notary Public

My Commission Expires: 8-4-52

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. 350
ORDER No. R-140

THE APPLICATION OF CONTINENTAL
OIL COMPANY FOR AUTHORITY TO
DUALY COMPLETE AND PRODUCE ITS
H. M. BRITT B-10 NO. 1 WELL, SW SW
SECTION 10, TOWNSHIP 20 SOUTH, RANGE
37 EAST, NMPM, LEA COUNTY, N. M.,
IN SUCH MANNER AS TO PERMIT PRODUCTION
OF OIL FROM THE GRAYBURG FORMATION AND
GAS FROM THE QUEEN FORMATION.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9:00 a.m. on March 20, 1952, at Santa Fe, New Mexico, before the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission."

NOW, on this 15th day of April, 1952, the Commission, a quorum being present, having considered the records and the testimony adduced, and being fully advised in the premises,

FINDS:

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

(2) That applicant's H. M. Britt B-10 No. 1 well, SW/4 SW/4 section 10, Township 20 South, Range 37 East, NMPM, was completed in November 1937 as an oil well in the Grayburg pay, bottomed at 3,921 feet and produced from the open-hole interval 3,679 to 3,921 feet, having drilled through the Queen gas zone (3,400 to 3,550 feet).

(3) That although recent experiments tend to show that mechanical packers and other devices are ordinarily available for successful dual/multiple completions of oil - gas wells, the Commission is unconvinced of the soundness, as a waste-prevention practice, of such dual/multiple completions as a general practice in New Mexico without specific controls over each such project.

IT IS THEREFORE ORDERED:

That the applicant, herein, Continental Oil Company, be, and it hereby is authorized to dually complete and produce H. M. Britt B-10 well No. 1, located 330 feet from the west line and 660 feet from the south line of section 10, Township 20 South, Range 37 East, NMPM, Lea County, (in the Eunice-Monument pool) in such a manner that gas from the Queen formation may be produced through the annular space between the casing and tubing, and oil from the Grayburg formation through the tubing, by the use of proper perforations and the installation of proper packer or packers;

PROVIDED, HOWEVER, That subject well shall be completed, and thereafter produced, in such a manner that there will be no commingling within the well bore, either within or outside the casing, of gas, oil and gas, or oil produced from either or both the separate strata, and,

PROVIDED FURTHER, That said subject well for dual completion and production shall be equipped in such a way that reservoir pressures may be determined separately for each of the two specified strata, and further, be equipped with all necessary connections required to permit recording meters to be installed and used, at any time, as may be required by the Commission or its representatives in order that natural gas, oil, or oil and gas from each separate stratum may be accurately measured and the gas-oil ratio thereof determined, and,

PROVIDED FURTHER, That the operator-applicant shall make any and all tests, including segregation tests, but not excluding other tests and/or determinations at any convenient time, and in such manner as deemed necessary by the Commission; the original and all subsequent tests shall be witnessed by representatives of the Commission and by representatives of offset operators, if any there be, at their election, and the results of each test properly attested to by the applicant herein and all witnesses, and shall be filed with the Commission within ten (10) days after the completion of such test, and,

PROVIDED FURTHER, That upon the actual dual completion of such subject well, applicant shall submit to the Commission a diagrammatic sketch of the mechanical installation which was actually used to complete and produce the seal between the strata, and a special report of production, gas-oil ratio and reservoir pressure determination of each producing zone or stratum immediately following completion.

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
EDWIN L. MECHEM, Chairman

Guy Shepard
GUY SHEPARD, Member

R. R. Spurrer
R. R. SPURRIER, Secretary

S E A L

CASE 351: OOC application to extend Warren-
McKee pool to include W/2 Sec. 17, E/2 of
18, N/2 of 20 in T. 20 S., R. 38 E., N/2 E/2